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**GROUND-WATER DATA:  
THE INTERACTION BETWEEN  
GROUND WATER  
AND A  
LARGE TERMINAL LAKE  
DEVILS LAKE, NORTH DAKOTA**

by

**Steve W. Pusc**

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North Dakota State Water Commission  
Water Resources Investigation 12  
David Sprynczynatyk, State Engineer

Prepared by the  
North Dakota State Water Commission  
In cooperation with the  
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ND State Water Commission

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## **INTRODUCTION**

The investigation of the water budget of Devils Lake was conducted cooperatively by the North Dakota State Water Commission (NDSWC) and the U.S. Geological Survey (USGS). Results of the investigation are presented in four separate reports. North Dakota State Water Commission Water-Resources Investigation number 10 is a compilation of the meteorologic and hydrologic data collected for computing evaporation from Devils Lake (Sether and Wiche, 1989). Water Resources Investigation number 11 is an interpretive report describing the evaporation, mass transfer methods and water budget estimates for Devils Lake (Wiche, in preparation). Water Resources Investigation number 12 (this report) is a compilation of the ground-water data collected in the Devils Lake area, while Water Resources Investigation number 13 is an interpretive report describing the interaction between ground water and Devils Lake (Pusc, in preparation).

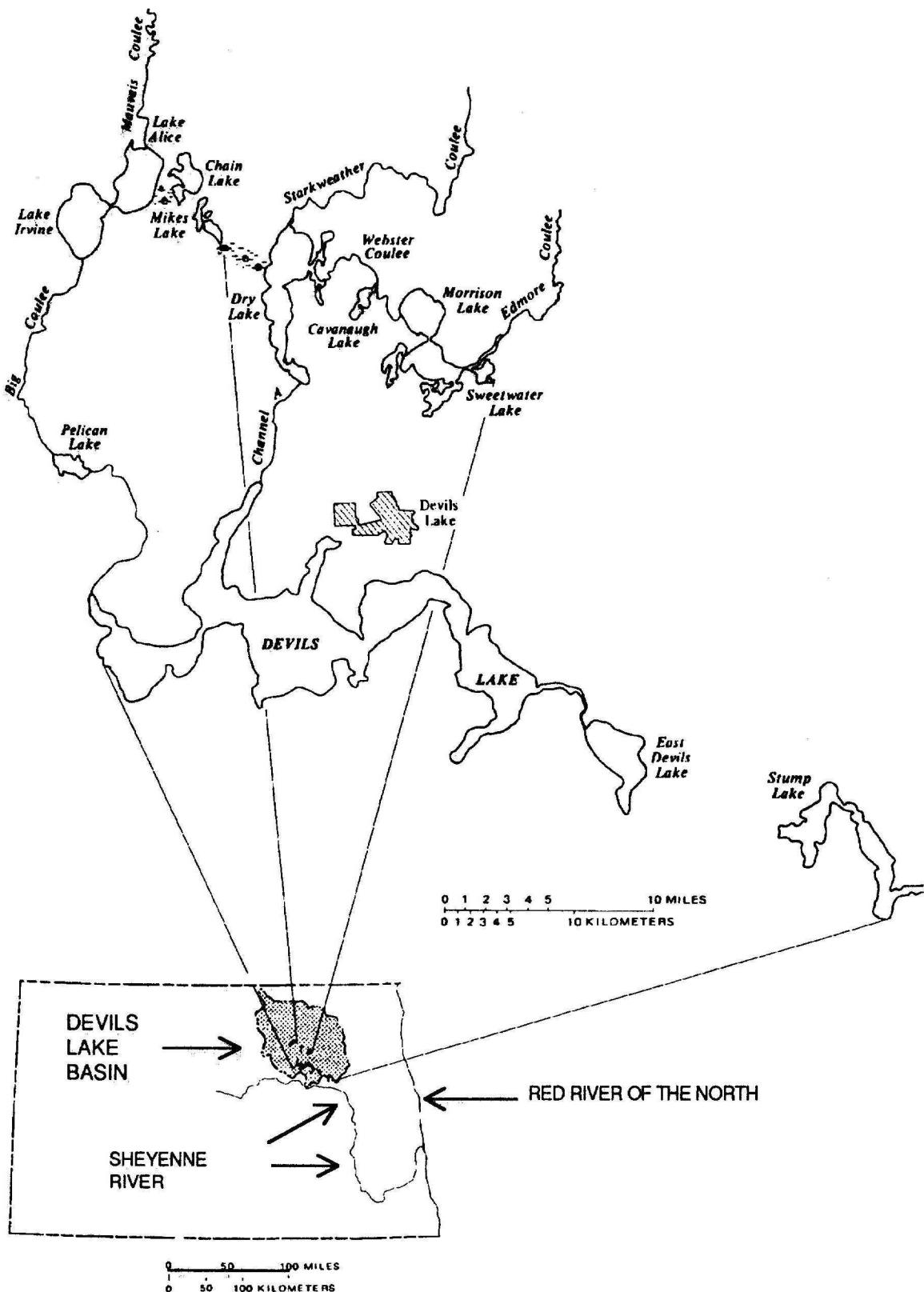
### **Purpose and objectives**

Concerns over the level and quality of water in Devils Lake have prompted numerous hydrologic investigations dating back to the late 1800's. None of these studies, however, specifically investigated the complex relationship between Devils Lake and ground water in the area. The primary purpose of this investigation was to determine the significance of ground water in the Devils Lake water budget. Specific objectives were to:

- 1) Describe the geologic and hydrologic setting of the Devils Lake area.
- 2) Develop a conceptual model of ground-water flow in the Devils Lake area.
- 3) Describe and interpret the quality of ground water in the area.

### **Location of study area**

Devils Lake basin, located in northeastern North Dakota, is a 3,800 square mile closed basin which is a noncontributing part of the Red River of the North drainage (fig. 1). The northern, western, and eastern boundaries of the Devils Lake Basin are poorly defined drainage divides. The southern boundary of the basin is a series of glacial moraines that lie between Devils Lake and the Sheyenne River (Plate 1).



**FIGURE 1. Location of the Devils Lake Basin, North Dakota**  
(modified from Ryan and Wiche, 1988)

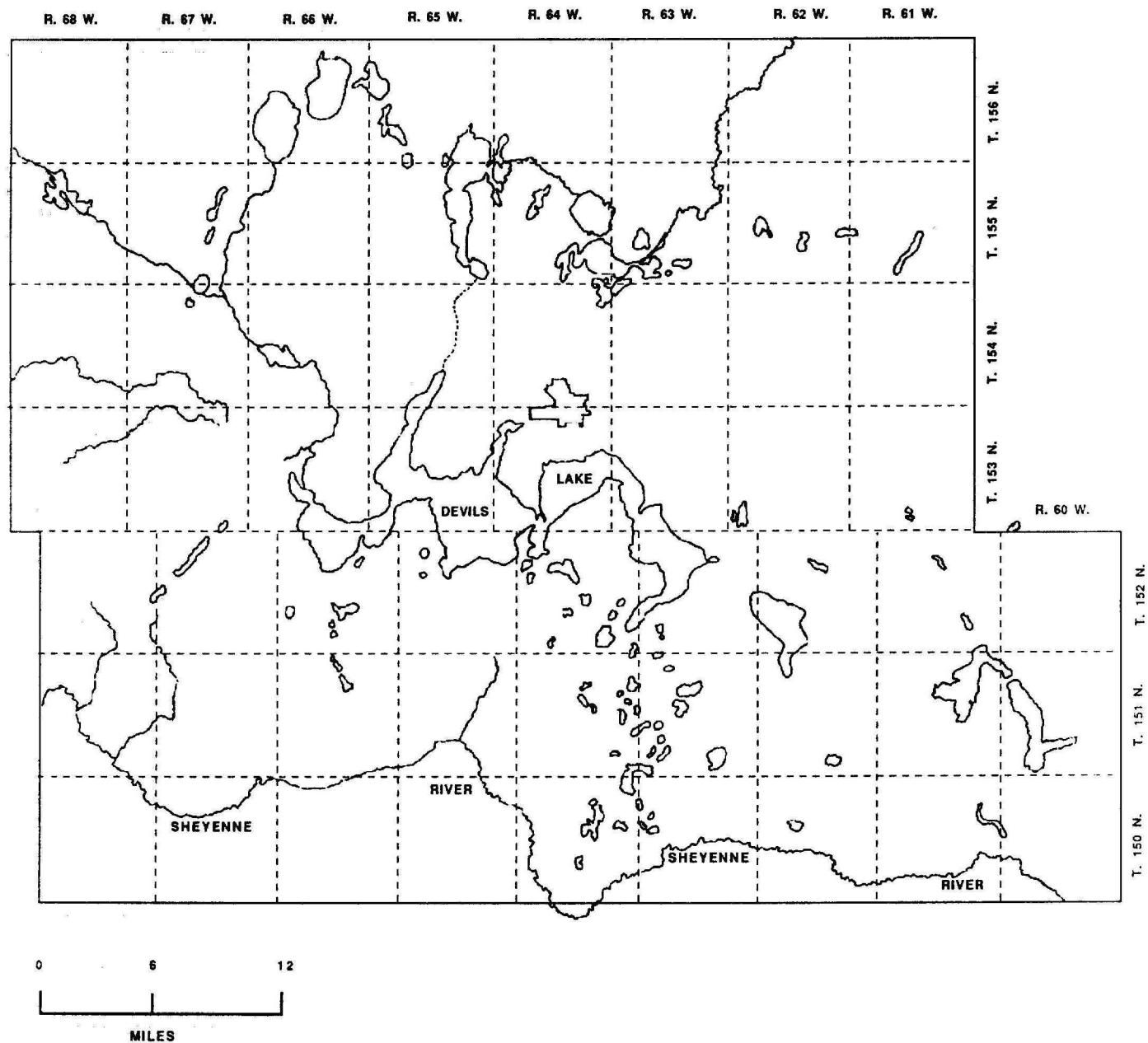
Specifically, this ground-water investigation covers only a portion of the Devils Lake basin; including segments of Ramsey, Benson, Eddy and Nelson Counties (Fig. 2 and Plate 1). The Sheyenne River is the southern boundary of the ground-water study area.

### **Location-numbering system**

Wells and test holes presented on plate 1 are numbered according to a system based on the location in the public land classification of the United States Bureau of Land Management (fig. 3). The first numeral denotes the township north of a base line, the second numeral denotes the range west of the fifth principal meridian, and the third numeral denotes the section in which the well is located. Letters A, B, C, and D designate, respectively, the northeast, northwest, southwest, and southeast quarter section, quarter-quarter section, and quarter-quarter-quarter section (10 acre tract). For example, well 153-64-04ADD is in the SE1/4 SE1/4 NE1/4 Section 4, Township 153 North, Range 64 West (fig. 3). Consecutive terminal numerals are added if more than one well is located in a 10-acre tract.

### **Acknowledgements**

The collection of data for this report was made possible by the cooperation of residents and officials of Ramsey, Benson, Eddy and Nelson Counties and the Fort Totten Indian Reservation who furnished essential information on wells, allowed the drilling of test holes on their property and permitted water level measurements and the collection of water samples. Particular recognition is due the following personnel of the North Dakota State Water Commission: G. J. Calheim for drilling and logging test holes and contributions to the understanding of the stratigraphy; G. O. Muri for chemical analyses of water samples, K.K. Kunz, C. Koppang, J. M. MacArthur, and M.H. Hove for collecting field data and to M. H. Hove, K. K. Kunz, and M. B. Osborn for compiling the water level and quality files. Special thanks to Chris Bader for developing the data base programs used to generate this report. Appreciation is also expressed to M. O. Lindvig, and R. B. Shaver for their critical review of the report. Thanks to the private drilling companies that furnished well logs and other information used in this report. I am also indebted to Tom Winter of the USGS in Denver, Colorado for contributing to the understanding of lake/ground-water interaction and for assisting in site selection for test drilling and observation well



**FIGURE 2. Location of the Devils Lake Study Area. (see Plate 1 for specific details)**

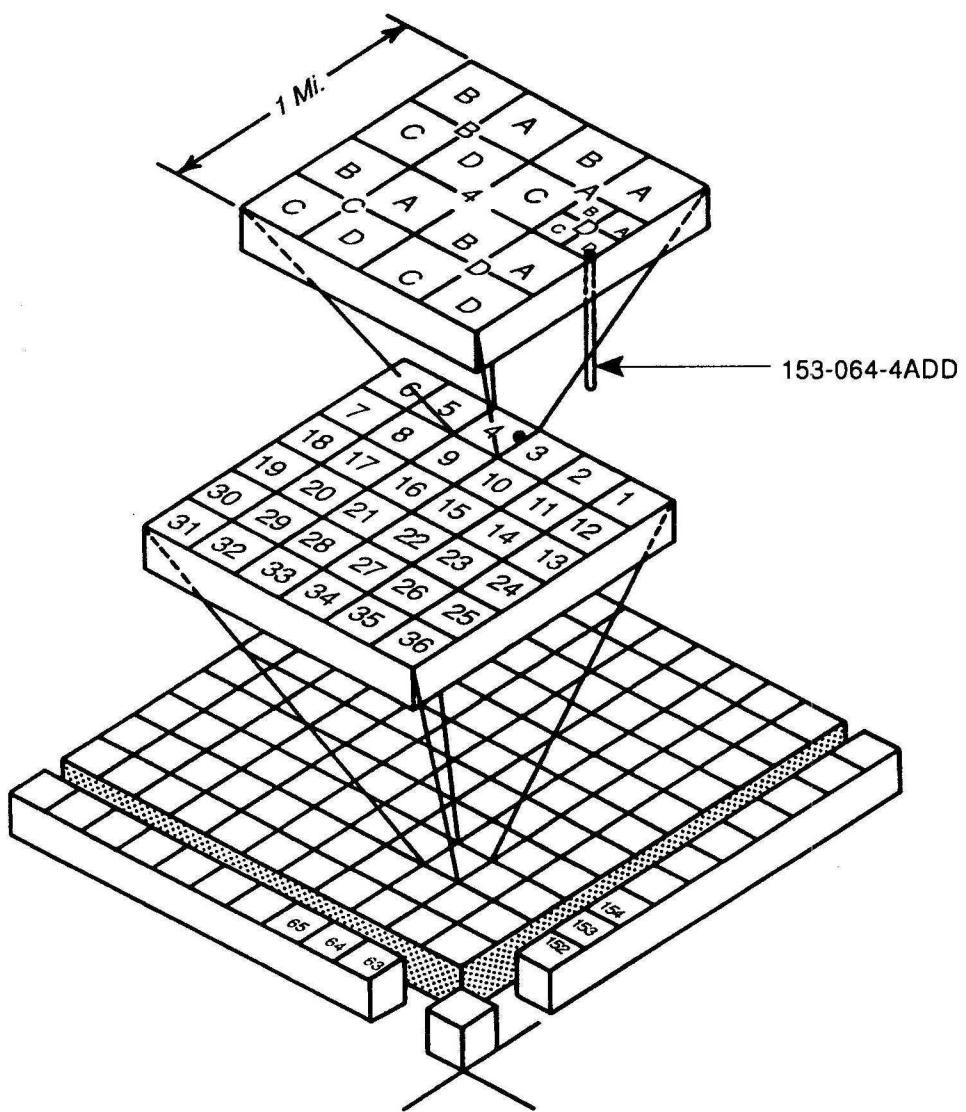


Figure 3 - Location-numbering system.

installation. And, to my wife Collette for her support and encouragement throughout the duration of this project.

## **EXPLANATION OF DATA TABLES AND METHODS OF DATA COLLECTION**

### **Records of test holes and wells**

Prior to this investigation, numerous test holes were drilled in the Devils Lake Basin. All of these data have been published in a number of reports. Because this information is available, it was determined that it was not necessary to republish this large volume of data. The reader is referred to the references for a complete listing of the publications containing data for the Devils Lake area.

Hydrogeologic investigation of the Devils Lake study area was accomplished by test drilling at (100) sites, installing (152) observation wells and measuring and recording depth to water in (289) observation wells. Additional data collected included: (1) measuring the level of Devils Lake, and (2) collecting and chemically analyzing surface water and ground-water samples.

Test holes were drilled with a Failing model 1250 forward hydraulic mud rotary drilling rig owned by the NDSWC. Observation wells were constructed of either 1 1/4-inch or 2-inch diameter polyvinyl chloride (pvc) casing with 5 or 10 foot long pvc screens.

Nests of piezometers were constructed specifically for this study to determine vertical hydraulic gradients in the area. Construction of the piezometer nests involved the drilling of an initial deep test hole to determine the number of piezometers to be installed at a particular site. The initial deep test hole also served as a hole for the deep piezometer. First, the desired length of casing and screen were inserted into the test hole. Silica sand was then placed around the screen using a tremie pipe. After sand packing, the tremie pipe was lifted so that the bottom of the tremie pipe was above the top of the sand pack. Neat cement grout was then injected down the tremie pipe and upward in the annular space. This process continued until the grout overflowed around the casing at land surface. After the grout settled, additional grout was poured down the hole until the annular space was filled to land surface. The grout was allowed to "set" and then the piezometers were slugged with a small quantity of fresh water and pumped

with air for development. Wells screened in glacial till and/or lake clay were not, however, slugged with fresh water. Instead, these wells were bailed immediately after well construction. Subsequent piezometers were completed at each nest site by moving the drilling rig ahead 15 to 20 feet and drilling the next hole. As many as five piezometers were installed at various depths at the same site using this technique. Numerous shallow water table wells were also constructed in the area using the aforementioned techniques.

#### **Lithologic logs of test holes and wells**

Pertinent geologic logs obtained from water well drillers, and logs of test holes drilled as part of this study are included in Table 1. Minor changes in word order have been made on some of the commercial logs. However, geologic interpretations shown on commercial logs are those of the drillers.

Samples of drill cuttings were collected and visually analyzed every five feet or whenever the lithology changed. Grain size determination for the United States Geological Survey (USGS) and NDSWC test holes refer to the Wentworth (1922) size scale. Color descriptions were determined by comparing fresh samples with the Geological Society of America's rock color chart (1963).

Resistivity and spontaneous potential logs were run in most of the deeper NDSWC test holes. Copies of the geophysical logs are available for inspection in the office of the NDSWC. Locations of all test holes and observation wells are presented on plate 1.

#### **Water levels in selected wells**

Listed in Table 2 are water levels in selected wells, in feet below or above land surface. Most of the water level data presented in Table 2 were collected by the NDSWC from 1987 through 1989.

Depth to water measurements were recorded on a bimonthly or monthly basis in a number of observation wells throughout the study area. Inclement weather, poor road conditions and freezing of the water column in many of the observation wells prevented

readings during a majority of the winter months. Water levels were measured with chalked steel tapes, electronic well sounders, and one continuous recorder.

One continuous float type water level recorder was used to collect information for this investigation. The recorder was installed in October of 1976 on a 4-inch diameter well (Spiritwood aquifer) located just north of Camp Grafton at Township 153 North, Range 64 West, Section 19AAB3 (plate 1). Incrustation of the well screen, however, resulted in a loss of most of this data. The well was successfully redeveloped in 1987, and the continuous recorder reinstalled. Data collected since redevelopment appear to be representative of the water level conditions in that part of the Spiritwood aquifer.

Differential leveling was used to establish the elevations of each well. Elevations for test holes (no well) were estimated using 7 1/2 minute quadrangle maps published by the USGS.

#### **Water quality**

Water quality data from the Devils Lake study area are listed in Table 3. Pertinent water quality data from previous publications are also included.

Chemical analyses were conducted on water samples collected from all observation wells and Devils Lake. Most of the samples were analyzed by the NDSWC Laboratory. Methods of analyses were generally those described by Brown and others, 1970. The results are expressed in milligrams per liter (mg/l).

The water sampling procedure involved the collection of 500 milliliters (ml) of raw water, 500 ml of filtered water and 500 ml of filtered and acidified (nitric acid) water. Select wells were also sampled for trace metals and nutrients. Field measurements of specific conductance and water temperature were also made. Water temperature was, however, measured at land surface and does not represent an in situ temperature. The pH was measured in the lab.

NDSWC observation wells were sampled using two methods: airlift and bailing. Airlift sampling was accomplished with a small diameter rubber hose attached to a

portable air compressor. Airlift sampling was only used on a few of the older county study wells because frequently a bailer would not go down the smaller diameter wells. Water samples were obtained from domestic and city supply wells by using the existing pumps.

Sampling with a bailer involved the removal of at least three casing volumes of water by airlift and/or bailing techniques to introduce formation water into the well. After evacuating at least three casing volumes of water, a variable capacity point source bailer (pvc) was lowered to just above the bottom of the well screen. Bailing continued until enough water was secured for the sample.

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TABLE 1. Records of lithologic logs of tests holes and observation wells

		<b>150-060-02BBB</b>	
		USAF	
Date Completed:		Well Type:	
Depth Drilled (ft):	37	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1470		
		<b>150-60-02CCC</b>	
		NDSWC 2978	
Date Completed:		Well Type:	
Depth Drilled (ft):	80	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1470		
		<b>150-060-05BDB</b>	
		NDSWC 5351	
Date Completed:	7/23/69	Well Type:	1.25 inch PVC
Depth Drilled (ft):	286	Source of Data:	Downey, 1971
Screened Interval (ft):	117-123	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1457		
		<b>150-60-09CCC</b>	
		NDSWC 5694	
Date Completed:	6/4/70	Well Type:	1.25 inch PVC
Depth Drilled (ft):	160	Source of Data:	Downey, 1971
Screened Interval (ft):	97-100	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1484		
		<b>150-60-09DDD</b>	
		NDSWC 2977	
Date Completed:	6/19/68	Well Type:	1.25 inch PVC
Depth Drilled (ft):	340	Source of Data:	Downey, 1971
Screened Interval (ft):	217-220	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1483		
		<b>150-60-12DDD</b>	
		NDSWC 5348	
Date Completed:	9/23/69	Well Type:	1.25 inch PVC
Depth Drilled (ft):	60	Source of Data:	Downey, 1971
Screened Interval (ft):	27-30	Principal Aquifer :	
L.S. Elevation (ft)	1448		
		<b>150-060-15AAA</b>	
		NDSWC 5347	
Date Completed:		Well Type:	
Depth Drilled (ft):	60	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1490		
		<b>150-060-15DAA</b>	
		NDSWC 5695	
Date Completed:	6/5/70	Well Type:	1.25 inch PVC
Depth Drilled (ft):	340	Source of Data:	Downey, 1971
Screened Interval (ft):	157-163	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1487		
		<b>150-60-17CCC</b>	
		NDSWC 2975	
Date Completed:	6/18/68	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	Downey, 1971
Screened Interval (ft):	74-77	Principal Aquifer :	Undefined
L.S. Elevation (ft)	1475		

**150-60-19ADD**

NDGS 39

Date Completed:		Well Type:	
Depth Drilled (ft):	10	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1425		

**150-060-22AAA**

NDSWC 5346

Date Completed:		Well Type:	
Depth Drilled (ft):	60	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1482		

**150-060-23CCC**

NDSWC 5345

Date Completed:		Well Type:	
Depth Drilled (ft):	60	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1485		

**150-060-24AAA**

NDSWC 5349

Date Completed:	7/23/69	Well Type:	1.25 inch PVC
Depth Drilled (ft):	20	Source of Data:	Downey, 1971
Screened Interval (ft):	97-103	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1489		

**50-060-24CCC**

NDSWC 2988

Date Completed:	6/20/68	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	Downey, 1971
Screened Interval (ft):	67-77	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1494		

**150-060-25AAA**

NDSWC 2989

Date Completed:		Well Type:	
Depth Drilled (ft):	80	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1470		

**150-060-28CBB**

NDSWC 5369

Date Completed:		Well Type:	
Depth Drilled (ft):	80	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1385		

**150-060-28CCB**

NDGS 40

Date Completed:		Well Type:	
Depth Drilled (ft):	10	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1425		

**150-060-35BBB**

NDSWC 5329

Date Completed:		Well Type:	
Depth Drilled (ft):	40	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1456		

**150-061-02BBB**

USBR

Date Completed:	1952	Well Type:	
Depth Drilled (ft):	12	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1450		

**150-061-05DDD**

NDSWC 2997

Date Completed:	6/25/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	200	Source of Data:	Downey, 1971
Screened Interval (ft):	167-170	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1454.2		

**150-061-06BBB**

NDSWC 5363

Date Completed:	7/28/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	320	Source of Data:	Downey, 1971
Screened Interval (ft):	197-203	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1462.7		

**150-061-06BBC**

Tolna

Date Completed:	9/10/82	Well Type:	8 inch steel
Depth Drilled (ft):	342	Source of Data:	Simpson Drilling
Screened Interval (ft):	227-?	Principal Aquifer :	Spiritwood aquifer
L.S. Elevation (ft)	1460		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
GRAVEL		1-3
CLAY	yellow large rocks	3-13
CLAY	blue, large rocks	13-19
CLAY	blue, tight, slippery	19-54
CLAY	soft, drills easy	54-126
CLAY	soft with sand layers	126-167
SAND	fine, blue, clayey	167-220
SAND	fine to medium	220-290
SHALE	with gravel layers	290-307
SHALE		307-342

**150-061-06BDD**

NDSWC 5547

Date Completed:	10/15/69	Well Type:	
Depth Drilled (ft):	280	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1455		

**150-061-06CCC**

NDSWC 11326

Date Completed:	9/7/83	Well Type:
Depth Drilled (ft):	28	Source of Data:
Screened Interval (ft):		Principal Aquifer : No Obs Well
L.S. Elevation (ft)	1470	

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	dark brown, sandy	0-1
SAND	yellowish brown, very fine to medium sand to fine gravel, oxidized	1-9
SAND	gray, very fine to medium, unoxidized, some fine gravel	9-12
CLAY	gray to olive gray, sandy, with pebbles, cohesive, crumbly, till	12-20
ROCK		20-21
TILL	as above	21-23
GRAVEL	medium grained, shale pebbles	23-24
TILL	as above, sheared off bit	24-28

**150-061-06CCC2**

NDSWC 11327

Date Completed:	9/7/83	Well Type:	1.25 inch PVC
Depth Drilled (ft):	320	Source of Data:	
Screened Interval (ft):	198-203	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1468.01		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	dark brown, sandy	0-1
SAND & GRAVEL	yellowish brown, silty, fine sand to medium gravel, oxidized	1-9
SAND & GRAVEL	gray, medium sand to medium gravel, unoxidized	9-12
CLAY	olive gray, sandy, with pebbles, cohesive, crumbly, sandy till, rock at 20 to 21 feet, till becomes harder from 35 on down	12-56
CLAY	olive gray, silty, massive, sticky, plastic, cohesive	56-64
CLAY	olive gray, sandy, with pebbles, plastic, cohesive, interbedded with shaly gravel, till, rocky	64-117
SAND & GRAVEL	medium sand to medium gravel, 50% silicates, 20 % carbonates, 30% shale	117-131
TILL	as above	131-138
SAND & GRAVEL	medium sand to fine gravel, 60% silicates, 10% carbonates, 30% shale and lignite	138-291
SHALE	very dark gray to black, hard, few thin layers of dark gray clay, Pierre Shale, Bedrock	291-320

**150-061-08BBA**

USAF

Date Completed:	1952	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Downey, 1971
Screened Interval (ft):	40	Principal Aquifer :	sand
L.S. Elevation (ft)	1460		

**150-061-10BBB**

NDGS 30

Date Completed:	1969	Well Type:	
Depth Drilled (ft):	10	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs well
L.S. Elevation (ft)	1461		

**150-061-10CCC**

NDSWC 5367

Date Completed:	8/5/69	Well Type:	1.25 inch PVC
Depth Drilled (ft):	180	Source of Data:	Downey, 1971
Screened Interval (ft):	57-60	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	0		

**150-061-14DDA**

NDSWC 5368

Date Completed:	8/5/69	Well Type:	
Depth Drilled (ft):	40	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1460		

**150-061-15DDA**

NDSWC 2974

Date Completed:	6/18/68	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	0		

**150-061-17DDD**

NDSWC 5365

Date Completed:	8/4/69	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	Downey, 1971
Screened Interval (ft):	177-183	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)			

**150-061-18BBA**

NDSWC 5364

Date Completed:	7/29/69	Well Type:	
Depth Drilled (ft):	300	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	0		

**150-061-19BBB**

NDSWC 5690

Date Completed:	6/6/70	Well Type:	1.25 inch abs
Depth Drilled (ft):	300	Source of Data:	Downey, 1971
Screened Interval (ft):	175-181	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1459.43		

**150-061-28AAA**

NDSWC 5366

Date Completed:	8/4/69	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	Downey, 1971
Screened Interval (ft):	157-160	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	0		

**150-061-30ABB**

NDSWC 2973

Date Completed:	6/18/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	380	Source of Data:	Downey, 1971
Screened Interval (ft):	237-240	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1458.5		

**150-062-03AAA**

USBR 416

Date Completed:	1952	Well Type:	3 inch
Depth Drilled (ft):	24	Source of Data:	Trapp, 1966, 1971
Screened Interval (ft):	24	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1467		

**150-062-03DDD**

NDSWC 11321

Date Completed:	8/31/83	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):	168-173	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1473.19		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL	dark brown, sandy	0-1
SAND	yellowish brown, fine to very coarse sand oxidized. largely medium sand, moderately well sorted	1-11
SAND & GRAVEL	medium sand to medium gravel, poorly sorted, angular to subrounded, 40% silicates, 30 % carbonates, 30 % shale, unoxidized fluvial sediments	11-15
TILL	olive gray, silty sandy with pebbles, soft crumbly, rocks at 31 to 32 feet and 33 to 34 feet, rock from 44 to 45 feet, sand and gravel from 68 to 69 feet	15-90
SAND & GRAVEL	moderately well sorted angular to subrounded, 40 % silicates, 30 % shale, and 30 % carbonates, clay from 104 to 106	90-106
SAND & GRAVEL	as above	106-111
CLAY	olive gray	111-114
SAND & GRAVEL	as above	114-122
CLAY	olive gray	122-124
SAND & GRAVEL	as above	124-127
CLAY	olive gray	127-129
SAND & GRAVEL	with angular lignite, shaly sand and gravel, poorly sorted chatters	129-160
SAND	coarse sand to fine gravel, shaly and lignitic layers, moderately well sorted, rounded to angular, 30 % silicates, 20 % carbonates, 30 % shale, 20 % lignite	160-182
SHALE	black, hard interbedded with dark gray clay and whitish gray bentonitic clay, Pierre Shale, bedrock	182-200

**150-062-04BBA**

## Gleason observation well

Date Completed:	5/30/80	Well Type:	PVC 4 inch
Depth Drilled (ft):	60	Source of Data:	
Screened Interval (ft):	27-42	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1471.5		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	brown, 20 to 30 slot	1-14
SAND	40 slot dark sand, 60% quartz	14-35
GRAVEL	50 to 60 slot dark gravel with fine gray sand	35-42
SAND	fine gray sand with gray clay	42-57
CLAY	gray soft	57-60

**150-062-04BBA2**

## Gleason Irrigation well

Date Completed:	06/16/80	Well Type:	12inch steel
Depth Drilled (ft):	45	Source of Data:	drillers files
Screened Interval (ft):	27-42	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1472		

## Lithologic Log

Unit	Description	Depth (ft)
see 04 BBA for log		

**150-062-04BBB**

## NDSWC 5298

Date Completed:	5/17/78	Well Type:	
Depth Drilled (ft):	140	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1472		

## Lithologic Log

Unit	Description	Depth (ft)
SAND & GRAVEL	sand, fine to very coarse, mostly coarse, subangular to rounded, well sorted, 60 % quartz, 30 % carbonates, 10 % shale and granites, lignitic, gravel, fine to medium, moderately sorting, subrounded mostly shale some carbonates and lignites, oxidized to about 13 feet caving heavily, mixed 1 bag of mud	0-39
TILL	sandy, silty with pebbles, medium dark to olive gray clay, tight, cohesive, very plastic, with fine grained sand layers	39-92
CLAY	silty, light olive gray, tight cohesive, plastic	92-111

**150-062-04CCC**

NDSWC 11319

Date Completed:	8/31/83	Well Type:
Depth Drilled (ft):	60	Source of Data:
Screened Interval (ft):		Principal Aquifer : No Obs Well
L.S. Elevation (ft)	1472	

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	medium sand to fine gravel oxidized	1-9
TILL	pebbly clay loam, crumbly, cohesive	22-29
SHALE	black with dark gray clay and whitish gray bentonitic clay, Pierre Shale, bedrock	29-60

**150-062-06BBC**

NDSWC 5299

Date Completed:	5/17/78	Well Type:	1.25 inch abs
Depth Drilled (ft):	160	Source of Data:	
Screened Interval (ft):	123-126	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1470.1		

## Lithologic Log

Unit	Description	Depth (ft)
SAND	fine to coarse, predominantly medium to coarse, subrounded to rounded, well sorted, 80 % quartz, 15 % carbonates, 5 % shale, 5 % lignite, taking water, mixed 1 bag of mud at 30 feet	0-57
CLAY	very silty, slightly sandy, medium to dark to brownish gray, very soft, smooth, poor sample return, some organics	57-96
GRAVEL	fine to medium with some coarse to very coarse sand, subangular to subrounded, well sorted, mostly shale with some carbonates, about 10 % quartz, mixed 1 mud at 120 feet	96-129
SHALE	coarse gravel after 100 feet black to grayish black, hard, tight, brittle, non-calcareous, Pierre Formation	129-160

**150-062-08BBB**

USBR 12

Date Completed:	1952	Well Type:	
Depth Drilled (ft):	10	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1471		

150-062-10000

NDSWC 11320

Date Completed:	8/31/83	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):	168-173	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1473.74		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL	dark brown, sandy	0-1
SAND	yellowish brown, fine to medium, well sorted, oxidized windblown sand	1-8
SAND & GRAVEL	medium sand to granule gravel, 50 % silicates, rounded to subrounded, 30 % shale, angular to subrounded, 20 % carbonates, angular to rounded, moderately well sorted	8-18
CLAY	olive gray pebbly loam, cohesive, crumbly, nonplastic, till, lense of sand from 51 to 52 feet	18-62
CLAY	olive gray, slightly silty clay, cohesive, plastic, drills smooth	62-92
TILL	olive gray, pebbles, clay loam	92-101
CLAY	olive gray slightly silty clay	101-108
SAND & GRAVEL	well sorted, largely very coarse sand to granule gravel, 40 % shale, angular to subrounded, 40 % silicates, subrounded to rounded, 20 % carbonates, angular to rounded	108-114
CLAY	olive gray, slightly silty	114-116
SAND & GRAVEL	interbedded with olive gray silty clay	116-122
TILL	olive gray, interbedded with lignite and sand and gravel	122-140
SAND	fine to medium, well sorted, rounded to subrounded	140-160
CLAY	gray, silty	160-162
SAND & GRAVEL	moderately well sorted, 20 % lignite and shale, 20 % carbonates, and 60 % silicates,	162-192
SHALE	black, hard, with layers of gray greasy clay, bentonitic	192-200

## 150-062-12BBB

NDSWC 11322

Date Completed: 9/1/83 Well Type: 1.25 inch PVC  
 Depth Drilled (ft): 240 Source of Data:  
 Screened Interval (ft): 218-223 Principal Aquifer : Spiritwood Aquifer  
 L.S. Elevation (ft) 1477

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL	dark brown, sandy	0-1
SAND	yellowish brown, fine to medium, oxidized, windblown	1-10
SAND	gray, fine to coarse, unoxidized	10-11
CLAY	olive gray, pebbly, clay loam, cohesive, crumbly	11-21
CLAY	olive gray, very sandy, pebbles, clay loam, soft to cohesive, crumbly, rock at 27 to 28 feet	21-28
CLAY	olive gray, pebbly clay loam, cohesive, plastic, very hard till	28-32
CLAY	olive gray, slightly silty, massive, hard, plastic, cohesive, sticky, lake clay	32-104
SAND	medium sand to fine gravel, shaly, fluvial	104-108
CLAY	dark gray, slightly silty, massive clay, hard, plastic, cohesive, sticky, lake clay	108-111
CLAY	dark gray, very pebbly clay loam, hard, plastic, cohesive, sticky, till	111-130
SAND	gray, silty, fine to medium,	130-132
CLAY	dark gray, pebbles, hard, plastic, cohesive, sticky, till	132-136
SAND	gray very fine to fine, silty	136-148
CLAY	dark gray, slightly silty	148-158
SAND	gray, very fine to medium, lots of lignite and wood fragments	158-169
SAND & GRAVEL	medium sand to medium gravel, moderately well sorted, 60 % silicates, rounded to subrounded, 30 % shale and lignite, subrounded to angular and 10 % carbonates, rounded to subrounded, average grain size is coarse sand	169-184
SAND & GRAVEL	coarse sand to medium gravel, moderately well sorted except for large coarse gravel sized shale fragments average grain size is granule gravel, 50 % silicates, rounded to subrounded, 30 % shale, angular and 10 % carbonates, subrounded	184-232
SHALE	black to dark gray, hard shale with layers of dark gray clay, Pierre Shale, bedrock	232-240

**150-062-12CCCCB**

NDSWC 11323

Date Completed:	9/1/83	Well Type:	1.25 inch PVC
Depth Drilled (ft):	230	Source of Data:	
Screened Interval (ft):	198-203	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1472.66		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	dark brown, sandy	0-1
SAND	yellowish brown, very fine to medium, oxidized	1-11
SAND	gray, fine to coarse, unoxidized	11-13
CLAY	olive gray, sandy with pebbles, cohesive, crumbly, at 45 feet till becomes dark gray and harder, coarse sand from 63 to 64 feet	13-90
SAND	fine to coarse, mostly medium sand, lignitic, shaly	90-102
SAND	interbedded with clay of till	102-108
CLAY	olive gray, till, hard, cohesive, drills tight	108-116
CLAY	dark gray, sandy, silty, cohesive, plastic, sticky, massive	116-133
SAND	gray, silty, very fine to medium	133-150
SAND & GRAVEL	medium sand to medium gravel, moderately well sorted rounded to subrounded except for angular shale and lignite fragments, 6 % silicates, 30 % shale and lignite, and 10 % carbonates, largely very coarse sand to fine gravel	150-214
SHALE	black to dark gray, interbedded with dark gray, greasy clay and bentonitic clay, Pierre Shale, Bedrock	214-230

**150-062-15BAA**

NDSWC 2279

Date Completed:	1964	Well Type:	1.25 inch PVC
Depth Drilled (ft):	189	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1478		

**150-062-15DDD**

NDSWC 5296

Date Completed:	5/16/78	Well Type:	
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	no obs. well
L.S. Elevation (ft)	1463		

**Lithologic Log**

Unit	Description	Depth (ft)
SAND	fine to very coarse, mostly coarse to very coarse, subangular to subrounded, 50 % quartz, 30 % carbonates and 20 % shale, lignite and granitics, oxidized, taking a little water	0-9
CLAY	sandy, silty, pebbly, medium dark to olive gray, tight, cohesive with abundant shale, very sandy with small sand lenses after 80 feet, till	9-181
SHALE	black to grayish black, tight, brittle, non-calcareous, Pierre Formation, Bedrock	181-200

**150-062-16AAA**

NDSWC 5297

Date Completed:	5/16/78	Well Type:	1.25 inch abs
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):	152-155	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1473.4		

## Lithologic Log

Unit	Description	Depth (ft)
SAND	fine to very coarse, mostly coarse to very coarse, subangular to rounded, 60% quartz, 30% carbonates, 10% shale and lignite, moderately to well sorted, with some fine carbonate gravel, oxidized to about 8 feet, taking some water	0-22
CLAY	sandy, silty, pebbles, gravelly, medium dark to olive gray, tight, cohesive, very slightly plastic, with some sand and gravel lenses, till, becomes very sandy after 80 feet	22-137
SAND	fine to very coarse, mostly coarse, gravel is fine to medium, cobbles, angular to subrounded, poor sorting, some clay layers, sand and gravel is mostly carbonates and quartz, taking water	137-169
SHALE	grayish black, hard, tight, brittle, non-calcareous, Pierre Formation, bedrock	169-200

**150-062-16DDD**

NDSWC 11318

Date Completed:	8/31/83	Well Type:	
Depth Drilled (ft):	160	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1460		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL	dark brown, sandy	0-1
SAND	yellowish brown, silty, fine, oxidized	1-10
SAND & GRAVEL	very coarse sand to very coarse gravel and cobbles, angular to subangular carbonates and shale, subrounded to rounded silicates	10-17
TILL	interbedded with gravel	17-20
ROCKS		20-21
SAND & GRAVEL	coarse sand to coarse gravel	21-24
TILL	clayey, sandy, nonplastic, crumbles	24-33
CLAY	olive gray, silty, hard drilling, some layers booting off, sticky, plastic, cohesive	33-81
TILL	clay, gray, pebbles, interbedded with sand and gravel	81-86
CLAY	gray, sandy, silty, with layers of shale and lignite gravel	86-99
ROCK		99-100
CLAY	gray, sandy, silty	100-123
CLAY	gray, green, sandy, silty, interbedded with lignite and shale sand and gravel, rig chatters a lot	123-146
SHALE	dark gray shale and clay with lots of bentonite	146-160

**150-062-18AAA**

USBR 413

Date Completed:	1952	Well Type:	
Depth Drilled (ft):	19	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)	1478		

**150-062-22AAB**

Tweed Production well			
Date Completed:	1979	Well Type:	irrigation
Depth Drilled (ft):		Source of Data:	drillers files
Screened Interval (ft):	?-170	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)			

**150-062-22DDD**

USBR 418

Date Completed:	1952	Well Type:	
Depth Drilled (ft):	13	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)	1463		

**150-062-23BBB1**

Tweed observation well

Date Completed:	4/22/79	Well Type:	PVC 4 inch
Depth Drilled (ft):	0	Source of Data:	drillers files
Screened Interval (ft):	154-178	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft):	1462.2		

**150-062-23BBB2**

Tweed Production well

Date Completed:	1979	Well Type:	irrigation
Depth Drilled (ft):		Source of Data:	drillers files
Screened Interval (ft):	?-170	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)			

**150-062-24CBB**

NDSWC 11317

Date Completed:	8/30/83	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):	158-163	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1462.78		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL	dark brown, sandy	0-1
SAND	yellowish brown, fine to coarse, moderately well sorted	1-8
SAND	gray fine to coarse sand, moderately well sorted	8-9
CLAY	olive gray, sandy, pebbly, cohesive crumbles rocks at 16 to 17, 19 to 20, 63 to 64, sand layer from 85 to 86	9-107
CLAY	gray, slightly silty, hard, cohesive, shiny appearance, whitish specks	107-144
SAND & GRAVEL	very coarse sand to fine gravel, interbedded with very thin gray clay lenses, moderately well sorted, angular to subrounded, 30% shale, 30% carbonates, 30% silicates, 10% lignite	144-148
SAND & GRAVEL	as above, fine sand to medium gravel	148-177
SHALE	dark gray to dark greenish gray shale, hard, laminated, sugary texture	177-200

**150-063-01BCC**

NDSWC 333

Date Completed:	9/29/50	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1470		

**150-063-01CDD**

USBR 429

Date Completed:	1954	Well Type:	
Depth Drilled (ft):	14	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)	1474		

**150-063-02CAB**

Kresbach irrigation well

Date Completed:	1974	Well Type:	12 inch steel
Depth Drilled (ft):	137	Source of Data:	Drillers files
Screened Interval (ft):	107-130	Principal Aquifer :	Warwick
L.S. Elevation (ft)	1474		

**150-063-02CCC**

USBR

Date Completed:		Well Type:	1.25 inch PVC
Depth Drilled (ft):	0	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1473		

## Lithologic Log

Unit	Description	Depth (ft)
no log		

**150-063-02CCC2**

NDSWC 11022

Date Completed:	7/30/79	Well Type:	
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1475		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	med to coarse, light brown, oxidized, mostly quartz, some gravel	1-14
CLAY	silty, yellowish brown, oxidized, smooth	14-17
CLAY	as above, olive gray	17-18
SAND	fine to medium, gravelly, gray, 30% shale, 40% quartz,	18-61
TILL	clay, silty, sandy with pebbles, with occasional gravel layer	61-76
CLAY	and shale, Pierre shale, bedrock	76-100

**150-063-02CDD**

NDSWC 11003

Date Completed:	7/30/79	Well Type:
Depth Drilled (ft):	240	Source of Data:
Screened Interval (ft):		Principal Aquifer : No Obs Well
L.S. Elevation (ft)	1475	

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	fine to medium, brown, some larger shale pebbles and chert pebbles	1-17
SAND	medium, to coarse, some gravel, some pebbles, boulder from 29 to 33 feet	17-33
CLAY	very sandy, light gray bouldery, till	33-41
CLAY	silty, light gray, compact, slightly sticky	41-61
CLAY	sandy, gravelly, light olive gray, till	61-222
CLAY	dark olive gray, compact, somewhat brittle, Bedrock	222-240

**150-063-03ADD**

NDSWC 5300

Date Completed:	5/18/78	Well Type:
Depth Drilled (ft):	60	Source of Data:
Screened Interval (ft):		Principal Aquifer : No Obs Well
L.S. Elevation (ft)	1473	

**Lithologic Log**

Unit	Description	Depth (ft)
SAND	fine to coarse, mostly medium to coarse, with some fine gravel, subrounded to rounded, well sorted, 50% quartz, 30% shale, 20% carbonate, slightly lignitic, taking some water, oxidized to about 8 feet	0-17
CLAY	sandy, silty, pebbly, bouldery, medium to olive gray, tight, cohesive, very slightly plastic, till, mixed 2 bags of mud	17-38
CLAY	shale, black to grayish black, indurated, tight, highly fractured to about 50 feet, Pierre formation	38-60

**150-063-02DDD**

USBR 409

Date Completed:	1952	Well Type:
Depth Drilled (ft):	15	Source of Data:
Screened Interval (ft):		Principal Aquifer : Trapp, 1966
L.S. Elevation (ft)	1475	

**150-063-09ADD2**

USBR 406

Date Completed:	1952	Well Type:
Depth Drilled (ft):	18	Source of Data:
Screened Interval (ft):		Principal Aquifer : Trapp, 1966
L.S. Elevation (ft)	1475	

**150-063-010DDA**

Devils Lake 332

Date Completed:	1950	Well Type:
Depth Drilled (ft):	100	Source of Data:
Screened Interval (ft):		Principal Aquifer : Trapp, 1966
L.S. Elevation (ft)	1477	

**150-063-13BBB**

USBR

Date Completed:		Well Type:	1.25 inch PVC
Depth Drilled (ft):	0	Source of Data:	
Screened Interval (ft):	0-17	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1476.4		

## Lithologic Log

Unit	Description	Depth (ft)
no log		

**150-063-15BBB**

USBR

Date Completed:		Well Type:	1.25 inch PVC
Depth Drilled (ft):	38	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1478.6		↓

## Lithologic Log

Unit	Description	Depth (ft)
LOAM	sandy	0-2
SAND		2-4
SAND	loamy	4-5
SAND		5-38

**150-063-16BBB**

USBR

Date Completed:	1970	Well Type:	1.25 inch PVC
Depth Drilled (ft):	28	Source of Data:	drillers files
Screened Interval (ft):		Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1474.74		

**150-063-19BBB**

NDSWC 2280

Date Completed:	7/23/64	Well Type:	
Depth Drilled (ft):	63	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1464		

**150-064-05AAA**

NDSWC 329

Date Completed:	10/11/50	Well Type:	
Depth Drilled (ft):	110	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1549		

**150-064-05BBB**

NDSWC 11950

Date Completed:	11/4/86	Well Type:	1.25 inch PVC
Depth Drilled (ft):	70	Source of Data:	
Screened Interval (ft):	63-68	Principal Aquifer :	Tokio Aquifer
L.S. Elevation (ft)	1567.3		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
GRAVEL	sandy, oxidized, coarse sand to marble gravel, well rounded to subrounded, drills fast, taking water, 60 % shale, remainder carbonates and silicates	1-24
CLAY	silty, oxidized, poor return, drills fast and smooth	24-56
CLAY	silty, or silt, clayey, olive gray, unoxidized, drills fast	56-70

**150-064-09BBC**

NDSWC 2282

Date Completed:	7/24/64	Well Type:	
Depth Drilled (ft):	115.5	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1446		

**150-064-18ABD**

USBR DH 3

Date Completed:	1960	Well Type:	
Depth Drilled (ft):	84	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)	1523		

**150-064-18BDA**

USBR DH 2

Date Completed:	1960	Well Type:	
Depth Drilled (ft):	44	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)	1406		

**150-064-33BCC**

NDSWC 2281

Date Completed:	7/23/64	Well Type:	
Depth Drilled (ft):	94.5	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1530		

**150-065-11AAA**

NDSWC 2283

Date Completed:	7/24/64	Well Type:	
Depth Drilled (ft):	42	Source of Data:	Trapp, 1966
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1408		

**151-060-04DAD**

USAF

Date Completed:  
 Depth Drilled (ft): 130  
 Screened Interval (ft):  
 L.S. Elevation (ft) 1501

Well Type:  
 Source of Data: Downey, 1971  
 Principal Aquifer : Pierre Shale

**151-060-05DBD**

NDGS N6

Date Completed:  
 Depth Drilled (ft): 37  
 Screened Interval (ft):  
 L.S. Elevation (ft) 1650

Well Type:  
 Source of Data: Downey, 1971  
 Principal Aquifer : No Obs Well

**151-060-07BDD**

NDSWC 5352

Date Completed:  
 Depth Drilled (ft): 180  
 Screened Interval (ft): 137-143  
 L.S. Elevation (ft) 1400

Well Type:  
 Source of Data: Downey, 1971  
 Principal Aquifer : McVille Aquifer

**151-060-12DDD**

NDSWC 5014

Date Completed:  
 Depth Drilled (ft): 80  
 Screened Interval (ft):  
 L.S. Elevation (ft) 1480

Well Type:  
 Source of Data: Downey, 1971  
 Principal Aquifer : No Obs Well

**151-060-14CAD**

NDGS 41

Date Completed:  
 Depth Drilled (ft): 25  
 Screened Interval (ft):  
 L.S. Elevation (ft) 1480

Well Type:  
 Source of Data: Downey, 1971  
 Principal Aquifer : No Obs Well

**151-060-23CCA**

NDSWC 5371

Date Completed:  
 Depth Drilled (ft): 60  
 Screened Interval (ft):  
 L.S. Elevation (ft) 1415

Well Type:  
 Source of Data: Downey, 1971  
 Principal Aquifer : No Obs Well

**151-060-24BBB**

NDGS 42

Date Completed:  
 Depth Drilled (ft): 35  
 Screened Interval (ft):  
 L.S. Elevation (ft) 1472

Well Type:  
 Source of Data: Downey, 1971  
 Principal Aquifer : No Obs Well

**151-060-33CDD**

NDSWC 5350

Date Completed:  
 Depth Drilled (ft): 40  
 Screened Interval (ft):  
 L.S. Elevation (ft) 1475

Well Type:  
 Source of Data: Downey, 1971  
 Principal Aquifer : No Obs Well

**151-060-35CDD**

USAF

Date Completed:  
 Depth Drilled (ft): 47  
 Screened Interval (ft):  
 L.S. Elevation (ft) 1475

Well Type:  
 Source of Data: Downey, 1971  
 Principal Aquifer : Pierre Shale

**151-060-35DAC1**

USAF

Date Completed:		Well Type:	
Depth Drilled (ft):	47	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1477		

**151-060-35DAC2**

USAF

Date Completed:		Well Type:	
Depth Drilled (ft):	1320	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	Dakota Group
L.S. Elevation (ft)	1480		

**151-061-04CCC**

NDSWC 5005

Date Completed:	6/26/68	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1437		

**151-061-07CCC**

NDSWC 11330

Date Completed:	9/7/83	Well Type:	1.25 inch PVC
Depth Drilled (ft):	235	Source of Data:	
Screened Interval (ft):	178-183	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1512.68		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL	dark brown, silty	0-1
GRAVEL	yellowish brown, sandy, fine to coarse	1-47
CLAY	brownish, yellow, slightly sandy, silty, soft, sticky, massive, oxidized	47-63
SAND	yellowish brown, fine, oxidized	63-76
SAND	gray, silty, fine, interbedded with gray silty clay	76-80
SAND	gray, silty, fine	80-91
SAND & GRAVEL	coarse sand, 70% shale, fine to coarse gravel, 30% silicates, rounded, very coarse sand to fine gravel	91-189
ROCKS		189-191
SAND & GRAVEL	interbedded with layers of gray silty clay	191-220
SAND & GRAVEL	very coarse sand to coarse gravel, moderately well sorted, 40% angular shale, 40% igneous and metamorphic rock fragments, subangular to subrounded, 20% carbonates, subangular to subrounded	220-234
ROCKS		234-235

**151-061-09CCC**

NDSWC 5004

Date Completed:	1968	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	NO Obs well
L.S. Elevation (ft)	1437		

**151-061-12DDD**

NDSWC 5003

Date Completed:	6/26/68	Well Type:	
Depth Drilled (ft):	40	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1475		

**151-061-16CCC**

NDGS 21

Date Completed:	1/1/69	Well Type:	PVC 4 inch
Depth Drilled (ft):	10	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)	1434		

**151-061-18CBB**

NDGS N7

Date Completed:	1/1/69	Well Type:	PVC 4 inch
Depth Drilled (ft):	36	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)	0		

**Lithologic Log**

Unit	Description	Depth (ft)
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no log

**151-061-21ABC**

NDGS 22

Date Completed:	1/1/69	Well Type:	PVC 4 inch
Depth Drilled (ft):	25	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)	1425		

**151-061-21BBB**

NDSWC 5361

Date Completed:	7/28/69	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1434		

**151-061-22CCD**

NDSWC 5362

Date Completed:	7/28/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	140	Source of Data:	Downey, 1971
Screened Interval (ft):	97-100	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1430		

**151-061-26CBB**

NDSWC 5000

Date Completed:	6/26/68	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1450		

**151-061-28BBB**

NDSWC 2999

Date Completed:	6/25/68	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1471		

**151-061-29DCA**

USBR

Date Completed:		Well Type:	PVC 3 inch
Depth Drilled (ft):	53	Source of Data:	Downey, 1971
Screened Interval (ft):	30	Principal Aquifer :	
L.S. Elevation (ft)	1492		

**151-061-30AAA**

NDSWC 11329

Date Completed:	9/7/83	Well Type:	1.25 inch PVC
Depth Drilled (ft):	240	Source of Data:	
Screened Interval (ft):	218-223	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1505.11		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL	brown, silty, clayey	0-1
CLAY	brownish yellow, sandy, pebbles, clay loam, moderately cohesive, crumbly, oxidized till	1-27
SAND & GRAVEL	brownish yellow, sandy, fine to coarse gravel, oxidized	27-29
CLAY	interbedded brownish yellow till and brownish yellow sandy gravel, oxidized	29-40
CLAY	brownish yellow sandy, silty	40-49
ROCKS		49-50
CLAY	olive gray, pebbles, clay loam, cohesive, plastic, unoxidized till	50-56
CLAY	olive gray, slightly silty, massive, cohesive, plastic, sticky, from 100 feet on down massive clays change to laminated, very dark gray and gray clay, organic rich layers, lake clays	56-163
CLAY	gray, very sandy, silty, interbedded with lignite, sand and gravel, lots of rig chatter	163-184
CLAY	gray, silty	184-186
SAND	gray, silty, very fine to fine, interbedded with silty clay, and sandy silty clay	186-200
SAND & GRAVEL	coarse sandy gravel, gravel is fine to medium, 60% silicates, rounded to subrounded, 30% shale, angular, 10% carbonates, subrounded, moderately well sorted	200-232
ROCK		232-233
SHALE	dark to black shale with dark gray clay	233-240

**151-061-30BBB**

NDSWC 2998

Date Completed:	6/25/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	280	Source of Data:	Downey, 1971
Screened Interval (ft):	197-200	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1453.2		

**151-061-32BBB**

NDSWC 11328

Date Completed:	9/7/83	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):	168-173	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1465.26		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	dark brown, sandy	0-1
SAND & GRAVEL	reddish brown medium sand to gravel, oxidized	1-8
CLAY	olive gray, sandy, with pebbles, clay loam, crumbly, cohesive	8-12
SHALE	interbedded hard black shale, whitish gray bentonitic clay and dark gray clay, Pierre shale block	12-17
CLAY	dark gray pebbly clay loam, hard, cohesive, sticky, plastic, till	17-49
SAND & GRAVEL	shale, sandy gravel	49-50
CLAY	dark gray with pebbles, clay loam, hard, cohesive, plastic, several blocks of shale	50-55
SAND & GRAVEL	gravelly, coarse sand, shale	55-56
CLAY	dark gray, pebbly clay loam, hard, cohesive, plastic	56-62
CLAY	olive gray, sandy, pebbly clay loam, softer than above till, moderately cohesive, plastic, sticky	62-76
CLAY	dark gray pebbly clay loam, hard, cohesive, plastic, till	76-117
CLAY	olive gray, silty clay, massive, cohesive, plastic, sticky	117-123
SAND	gray silty very fine to fine sand interbedded with layers of olive gray silty clay	123-146
SAND & GRAVEL	medium to very coarse sand, 10% fine gravel, 80% sand, 60% silicates, rounded, 30% shale and lignite, angular to subrounded, 10% carbonates, subrounded, moderately well sorted	146-166
SAND & GRAVEL	coarse sandy gravel, % mineral composition as above	166-184
ROCKS		184-185
SHALE	black hard shale interbedded with dark gray hard clay, Pierre formation, Bedrock	185-200

**151-061-34DDA**

NDGS 23

Date Completed:	6/26/68	Well Type:	
Depth Drilled (ft):	20	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1480		

**151-061-35BAA**

NDSWC 5001

Date Completed:	6/26/68	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1500		

**151-061-36ABB**

NDSWC 5002

Date Completed:	6/26/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	180	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1505		

**151-062-03ADD**

NDSWC 337

Date Completed:	1/1/50	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1611		

**151-062-03DDD1**

NDSWC 8858

Date Completed:	8/23/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	380	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	62-65	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1530		

**151-062-03DDD2**

NDSWC 5303

Date Completed:	5/18/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	320	Source of Data:	
Screened Interval (ft):	260-263	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1535.2		

## Lithologic Log

Unit	Description	Depth (ft)
SAND	gravelly, fine to coarse sand, fine to medium gravel, mostly medium to coarse sand, well sorted, 20% gravel, medium to well rounded, 30% shale, 30% carbonates	0-48
GRAVEL	sandy, fine to coarse sand, fine to coarse gravel, mostly fine to medium gravel, moderately well sorted, 60% shale, subrounded to angular	48-74
CLAY	silty, sandy, with gravel, medium gray clay, moderately cohesive	74-109
CLAY	silty, sandy, dark gray, plastic, clay, 40% silt, 5 to 10% fine sand, medium to highly cohesive	109-130
CLAY	silty, dark gray, plastic and cohesive, 40 to 50% silt	130-139
SAND	silty, very fine to fine sand, well sorted	139-145
SAND	silty, fine to very coarse, mostly medium sand, lignite	145-153
CLAY	silty, moderately dark gray clay, 40 to 50% silt, plastic and cohesive	153-209
SAND	fine to medium, mostly fine sand, well sorted, mostly quartz, fairly well rounded	209-214
CLAY	silty, dark gray, 30% silt, cohesive and plastic	214-223
SAND	fine to medium, mostly medium, well sorted, mostly quartz, fairly well rounded	223-233
CLAY	silty, sandy, 40% silt, dark gray, very fine sand 10%	233-241
SAND	gravelly, very fine to coarse sand, fine gravel,	241-266
SAND	gravelly, fine to very coarse sand, well rounded to subangular well sorted	266-311
GRAVEL	sandy, clayey, fine to coarse sand with fine to medium gravel, fairly well rounded and well sorted	311-320

**151-062-09ABB**

NDSWC 8857

Date Completed:	8/23/73	Well Type:	1.25 inch abs
Depth Drilled (ft):	240	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	197-203	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1494.4		

**151-062-11DCC**

USBR

Date Completed:	1/1/61	Well Type:	PVC 5 inch
Depth Drilled (ft):	0	Source of Data:	Randich, 1971
Screened Interval (ft):	0-50	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1498		

**151-062-12DCC**

NDSWC 10309

Date Completed:	10/4/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	300	Source of Data:	
Screened Interval (ft):	235-238	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1511.1		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	gravelly, fine sand to medium gravel, yellowish brown, oxidized	1-21
CLAY	very silty, very sandy, poorly cohesive, easy drilling, yellowish brown, oxidized	21-49
CLAY	very silty, sandy, moderately cohesive, olive gray to gray	49-80
GRAVEL	sandy, 80% shale, poorly sorted, coarse sand to coarse gravel, mostly a medium gravel, 20% carbonates, subangular to angular	80-96
POOR RETURN	easy drilling, possibly fine sand and silt, taking water	96-110
CLAY	silty, sandy, poor cohesion, poor compaction, some fine sand to very fine sand, taking water and mixed 1 bag of mud	110-183
SAND	very fine to medium, mostly fine, well sorted	183-185
CLAY	silty, very sandy, moderately compact, poor cohesion, olive gray, some small sand layers, till	185-204
GRAVEL	sandy, coarse sand to medium gravel, mostly fine gravel, 20% shale, 80% silicates and carbonates, well rounded and well sorted	204-240
CLAY	olive gray to black, very silty, sandy, layers of shale gravel,	240-280
CLAY	black to dark gray, hard, well compacted, cohesive	280-291
SHALE	hard, black mixed with clay, hard drilling, well compacted, very cohesive,	291-300

**151-062-13BCA**

NDSWC 10306

Date Completed:	10/4/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	300	Source of Data:	
Screened Interval (ft):	246-249	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1495		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	40% gravel, coarse sand to coarse gravel, poorly sorted, subangular to angular, yellowish brown, oxidized	1-15
CLAY	silty, sandy, pebbles, poor cohesion, poor compaction, brownish yellow, oxidized till	15-19
SAND	very fine to medium, well sorted	19-48
SAND	gravelly, fine sand to medium gravel, 50% silicates, 20% lignite, poorly sorted	48-52
SAND	very fine to medium, mostly very fine, olive gray to light gray, some small interbedded layer of lignite and clay, somewhat slightly silty	52-78
GRAVEL	shale, very coarse, well rounded to angular, poorly sorted	78-80
CLAY	slightly silty, very cohesive, compact, grades to a more silty clay, olive gray	80-105
SAND	very fine to medium, mostly fine, similar to sands from 52 to 78 feet	105-122
CLAY	silty, sandy, pebbles, very cohesive, moderately compact, dark gray to olive gray	122-173
SAND & GRAVEL	very coarse sand to medium gravel, mostly fine gravel, well rounded, 10% carbonates, 80% silicates, from 201 to 281 gravel becomes more coarse	173-281
SHALE	black, very cohesive, well compact hard drilling, Pierre formation	281-300

**151-062-13BCD**

NDSWC 10307

Date Completed:	10/4/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	300	Source of Data:	
Screened Interval (ft):	192-195	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1495		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	fine to coarse, mostly medium, moderately sorted, brownish yellow, oxidized	1-22
SAND	fine sand to fine gravel, mostly coarse sane, well rounded, 20% gravel, shale, fair sorting	22-86
GRAVEL	shale gravel, ranges from coarse sand to medium gravel, mostly a medium gravel, poorly sorted, 60% shale, grades down to coarse gravel towards 106 feet	86-108
SAND	very fine to medium, mostly fine, well sorted	106-133
SAND	fine to medium, mostly medium, poorly sorted	133-149
SAND	fine to coarse gravel, mostly coarse sand, moderately poor sorting	149-157
GRAVEL	fine to coarse gravel, 90% shale, mostly medium gravel, well rounded, well to moderately sorted	157-163
SAND	gravelly (15%), fine sand to coarse gravel, mostly a coarse sand, poor sorting, gravel well rounded	163-182
CLAY	silty, cohesive, moderately compacted, olive gray	182-189
SAND	very fine, lignite, interbedded with olive gray clays	189-200
GRAVEL	coarse sand to coarse gravel, mostly a medium gravel, well rounded, moderately sorted, 90% shale, 10% carbonates and silicates	200-279
CLAY	very cohesive, very compact, olive gray to dark gray	279-280
CLAY	black, very cohesive, very compact, hard drilling , Pierre formation	280-300

## 151-062-13CAA

NDSWC 10304

Date Completed:	10/3/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	300	Source of Data:	
Screened Interval (ft):	236-239	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1495		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	fine to coarse, mostly a medium sand, poorly sorted, moderately rounded, brownish yellow, oxidized	1-13
CLAY	silty, sandy, moderately cohesive, poorly compact, brownish yellow, till?	13-19
SAND	very fine to medium, mostly a fine sand, well sorted, oxidized zone concluded about 34 feet, then into fine gray sand	19-82
GRAVEL	sandy, coarse sand to medium gravel, 60% gravel, 80% shale, 10% carbonate, well rounded to subrounded	82-108
GRAVEL	sandy, 80% coarse gravel, coarse sand to coarse gravel, moderate sorting, subrounded to angular	108-115
GRAVEL	medium to very coarse, mostly very coarse, very well rounded, good sorting, 90% shale	115-144
CLAY	very cohesive, moderately compact, grading down to a silty sandy clay, gray to olive gray	144-175
SAND	fine to coarse, mostly a medium sand, moderately sorted, some small interbedded lignite layers	175-201
GRAVEL	coarse sand to medium gravel, mostly a medium gravel (80%), well rounded to subangular, 50% shale, 5% carbonates, 40% silicates, moderately sorted	201-238
GRAVEL	fine to coarse gravel, mostly coarse, well sorted, well rounded, less % of lignite and shale, more silicates and carbonates	238-264
CLAY	silty, sandy with pebbles, poor cohesion, poor compaction, some small interbedded layers of lignite, poor recovery, till	264-284
CLAY	very hard drilling, poor to no recovery, clay very cohesive, well compacted, possibly Bedrock ?	284-300

## 151-062-13CAA2

NDSWC 10304B

Date Completed:	10/6/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	160	Source of Data:	
Screened Interval (ft):	130-136	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1495		

## Lithologic Log

Unit	Description	Depth (ft)
see log for 13CAA		

## 151-062-13CAB1

NDSWC 10303A

Date Completed:	10/3/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	300	Source of Data:	
Screened Interval (ft):	258-261	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1495		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	fine sand to fine gravel, mostly coarse sand, 5% gravel, well rounded, shale fragments along with carbonates, dark yellow to light brown, oxidized	1-21
SAND	fine to medium, mostly medium, well sorted, subangular to well rounded, gray, unoxidized began at 28 feet	21-76
SAND	fine sand to fine gravel, mostly coarse sand, moderately well sorted, small shale fragments, gray	76-82
GRAVEL	sandy, medium sand to coarse gravel, mostly gravel, 70% shale, gravel well sorted	82-96
GRAVEL	sandy, fine to coarse gravel, mostly gravel (70%), 90% shale, well rounded	96-151
GRAVEL	sandy, fine sand to coarse gravel poor sorting, 65% gravel, 50% lignite	151-162
CLAY	silty, cohesive, moderately well compact, olive gray	162-164
GRAVEL	sandy, coarse sand to coarse gravel, mostly medium gravel, moderately sorted, well rounded, 30% carbonates, 50% shale	164-180
CLAY	silty, poorly cohesive, poorly compact, olive gray	180-185
SAND	fine to coarse sand, well sorted, well rounded	185-225
GRAVEL	sandy, 60% gravel, medium to coarse gravel, mostly a medium gravel, well sorted, well rounded, 50% carbonates, 50% shale, igneous, and metamorphic, taking water, mix 1 bag of mud	225-260
GRAVEL	sandy, coarse sand to coarse gravel, 50% gravel, well rounded, moderately poor sorting	260-281
CLAY	cohesive, moderately compact, light gray to olive gray	281-284
CLAY	black, very cohesive, compact, Pierre formation	284-300

**151-062-13CAB2**

NDSWC 10305

Date Completed: 10/3/78 Well Type: 1.25 inch PVC  
 Depth Drilled (ft): 320 Source of Data:  
 Screened Interval (ft): 195-198 Principal Aquifer : Spiritwood Aquifer  
 L.S. Elevation (ft) 1495

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	silty, sandy, with pebbles, yellowish brown, till, oxidized	1-13
SAND	very fine to medium, mostly fine, some 6 inch layers of lignite	13-73
GRAVEL	sandy, medium sand to coarse gravel (20% gravel), gravel is mostly fine, well rounded, good sorting 30% carbonates, 70% shale	73-85
GRAVEL	sandy, 60% gravel, coarse sand to coarse gravel, mostly fine gravel, 10% carbonates, 90% shale, well rounded, fair sorting	85-109
GRAVEL	medium to very coarse gravel, mostly very coarse gravel, poor sorting, well rounded, 90% shale, taking water, mixed 2 bags of mud	109-162
CLAY	very compact, dense, very cohesive, olive gray	162-166
SAND	with some gravel (10%), lignite fragments in sand	166-220
CLAY	silty, moderately cohesive, well to poor compaction, olive gray to light gray	220-222
SAND	fine to medium, mostly fine, moderately sorted	222-274
CLAY	moderately compacted to well compacted, very cohesive, olive gray	274-283
GRAVEL	sandy, coarse sand to coarse gravel, 70% gravel, mostly a medium gravel, 40% carbonates, 60% shale, some interbedes of clay (olive gray)	283-304
CLAY	very dense, black, very cohesive, hard drilling, Pierre formation	304-320

**151-062-13CAB3**

NDSWC 10303B

Date Completed: 10/3/78 Well Type: 1.25 inch PVC  
 Depth Drilled (ft): 160 Source of Data:  
 Screened Interval (ft): 155-158 Principal Aquifer : Spiritwood Aquifer  
 L.S. Elevation (ft) 1495

**Lithologic Log**

Unit	Description	Depth (ft)
see log for 13CAB2		

151-062-13CBA

M. Pare

## Lithologic Log

Unit	Description	Depth (ft)
no log		

151-062-13CBB

NDSWC 10308

Date Completed:	10/5/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	360	Source of Data:	
Screened Interval (ft):	238-241	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1496.2		

### Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	fine sand to coarse gravel, mostly medium sand, poorly sorted, yellowish brown, oxidized	1-10
CLAY	silty, sandy, pebbles, poor cohesion, poorly compact, yellowish brown, till	10-26
SAND	very fine to medium, mostly a medium sand, well sorted, at 80 feet some lignite	26-94
GRAVEL	sandy, 60% gravel, gravel fine to coarse, mostly a medium sand, 50% shale, 10% carbonates, 40% igneous and metamorphic, moderately to poorly sorted, well rounded	94-122
CLAY	silty, sandy, moderately compact, good cohesion, olive gray, sand layer at 156 feet	122-176
SAND	very fine to medium, mostly fine, with lignite and shale gravel, interbedded with clay, poor recovery on clay layers	176-191
GRAVEL	sandy, 50% gravel ranges from coarse sand to medium gravel, mostly a fine gravel, well rounded, poorly sorted, gravel composed of 40 to 50% lignite	191-222
GRAVEL	sandy, 50% gravel, ranges from coarse sand to medium gravel, mostly a fine gravel, well sorted, 10% shale, 80% igneous and metamorphic, 10% carbonates and lignites	222-264
GRAVEL	as above, however small interbedes of clay towards bottom of section, poor recovery on clay	264-314
SHALE	black to dark gray, very hard, compact, tough drilling	314-360

151-062-13DCC

R John.

Date Completed: Well Type: Irrigation  
Depth Drilled (ft): 0 Source of Data:  
Screened Interval (ft): Principal Aquifer :  
L.S. Elevation (ft) 0

## Lithologic Log

Unit	Description	Depth (ft)
no log		

**151-062-14AAA**

NDSWC 5466

Date Completed:	9/11/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	300	Source of Data:	Randich, 1971
Screened Interval (ft):	218-224	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1511.5		

**151-062-014D**

H. Pare

Date Completed:		Well Type:	Irrigation
Depth Drilled (ft):	0	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)	0		

## Lithologic Log

Unit	Description	Depth (ft)
no log		

**151-062-15AAA**

NDSWC 5551

Date Completed:	10/17/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	340	Source of Data:	Randich, 1971
Screened Interval (ft):	197-203	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1492.1		

**151-062-15BBB**

NDSWC 5465

Date Completed:	9/11/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	240	Source of Data:	Randich, 1971
Screened Interval (ft):	198-204	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1494.9		

**151-062-15CCC**

USBR

Date Completed:	1/1/75	Well Type:	1.25 inch PVC
Depth Drilled (ft):	21	Source of Data:	
Screened Interval (ft):	18-21	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1479.1		

## Lithologic Log

Unit	Description	Depth (ft)
Loam, sandy		0-2
SAND		2-4
SAND	loamy, coarse	4-6
SAND	fine	6-7.5
SAND	loamy, fine	7.5-9
SAND	loamy	9-15
SAND		15-19
TILL	loamy	19-21

**151-062-16BCA**

## Tribe

Date Completed:	1/1/77	Well Type:	1.25 inch PVC
Depth Drilled (ft):	220	Source of Data:	
Screened Interval (ft):	178-198	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1505		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
GRAVEL	fine to coarse, 30% sand	1-40
TILL		40-69
CLAY	silty	69-163
SAND	fine to coarse, 15% gravel	163-176
GRAVEL	fine to coarse, 40% sand	176-215
BEDROCK		215-220

**151-062-16BCA2**

## Tribe

Date Completed:	1/1/77	Well Type:	Steel 12 inch
Depth Drilled (ft):	220	Source of Data:	
Screened Interval (ft):	176-218	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1505		

## Lithologic Log

Unit	Description	Depth (ft)
see log for 16BCA		

**151-062-16CBC**

## NDSWC 336

Date Completed:	10/6/50	Well Type:	
Depth Drilled (ft):	50	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1490		

**151-062-16DDB**

## Green Irrigation well

Date Completed:	1974	Well Type:	12 steel
Depth Drilled (ft):	207	Source of Data:	Drillers files
Screened Interval (ft):	165-195	Principal Aquifer :	Spiritwood aquifer
L.S. Elevation (ft)	1487		

**151-062-17A**

Green

Date Completed:	1/1/77	Well Type:	Steel 12 inch
Depth Drilled (ft):	201	Source of Data:	
Screened Interval (ft):	175-197	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1500		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
TILL		1-4
GRAVEL	sandy	4-39
TILL		39-70
CLAY	silty	70-160
SAND	fine	160-166
CLAY	silty	166-174
GRAVEL	sandy	174-201

**151-062-17ABD1**

Tribe

Date Completed:	1/1/77	Well Type:	1.25 inch PVC
Depth Drilled (ft):	210	Source of Data:	
Screened Interval (ft):	178-198	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1500		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
TILL		1-4
GRAVEL	fine to coarse, 30% sand	4-39
TILL		39-70
CLAY	silty	70-161
SAND	fine to medium	161-166
CLAY	silty	166-174
GRAVEL	fine to coarse, 25% sand	174-201
BEDROCK		201-210

**151-062-18AAA**

NDSWC 11009

Date Completed:	8/1/79	Well Type:
Depth Drilled (ft):	40	Source of Data:
Screened Interval (ft):		Principal Aquifer : No Obs Well
L.S. Elevation (ft)	1495	

**Lithologic Log**

Unit	Description	Depth (ft)
GRAVEL	fine to coarse, sandy, angular to subrounded, oxidized	0-9
GRAVEL	as above, many sandstone boulders, put on rock bit	9-31
CLAY	sandy with gravel, interbedded, poor sample, had pump problems, abandoned hole, caving badly	31-40

**151-062-18ADD**

NDSWC 11008

Date Completed:	8/1/79	Well Type:
Depth Drilled (ft):	220	Source of Data:
Screened Interval (ft):		Principal Aquifer : No Obs Well
L.S. Elevation (ft)	1485	

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
GRAVEL	fine to coarse, with coarse sand, subrounded to rounded, some pebbles, sand mostly quartz, gravel mostly shale, dark brown, oxidized	1-24
CLAY		24-29
GRAVEL	as above, clay from 34 to 35 feet, and 51 to 52 feet	29-52
GRAVEL	medium with coarse sand,, mostly angular shale	52-62
SAND	coarse,mostly shale	62-81
SILT	clayey, sandy, sticky, soft, and olive gray, poor return	81-163
CLAY	olive gray, sandy, silty	163-201
CLAY	dark, olive gray, compact, some shale, Pierre formation, bedrock	201-220

**151-062-19AAA**

NDSWC 11007

Date Completed:	7/31/79	Well Type:	1.25 inch PVC
Depth Drilled (ft):	0	Source of Data:	
Screened Interval (ft):	133-138	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1486		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
GRAVEL	fine to coarse, mostly coarse, 10% pebbles	1-4
CLAY	yellow, oxidized	4-6
GRAVEL	as above	6-18
CLAY	yellow, sandy, silty, till	18-23
CLAY	till as above, olive gray	23-123
SAND	fine, grayish brown	123-146
CLAY	dark olive gray, brittle (Pierre ?), taking water, interbedded with lignite and sand, fast drilling	146-189
CLAY	dark olive gray, brittle, sticky, slow drilling, Pierre formation	189-200

**151-062-19ABB**

NDSWC 5295

Date Completed:	5/16/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	80	Source of Data:	
Screened Interval (ft):	30-33	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1484.6		

**Lithologic Log**

Unit	Description	Depth (ft)
SAND & GRAVEL	60% sand, 40% gravel, sand is fine to very coarse, mostly coarse, 50% quartz, 40% carbonates, 10% granites, subrounded, gravel is fine to medium, angular to subrounded, mostly carbonates with shale, some quartz granites, oxidized, taking water, mixed 1 bag of mud	0-10
SILT	sandy, no sample return	10-16
SAND & GRAVEL	70% sand, 30% gravel, composition as above, some lignite, taking water, mixed 1 bag of mud	16-35
CLAY	olive gray, sandy, silty, pebbles, boulders, tight, cohesive, till	35-53
SHALE	black to grayish black, indurated, tight, brittle, fractured to about 63 feet, noncalcareous, Pierre formation, bedrock	53-80

**151-062-19ADD2**

NDGS

Date Completed:	1/1/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	39	Source of Data:	Randich, 1971
Screened Interval (ft):	28-30	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1485		

**151-062-19ADD1**

NDSWC 2877

Date Completed:	10/19/67	Well Type:	1.25 inch PVC
Depth Drilled (ft):	80	Source of Data:	Randich, 1971
Screened Interval (ft):	33-38	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1482.6		

**151-062-19DDA**

Schwann

Date Completed:	12/22/79	Well Type:	PVC 4 inch
Depth Drilled (ft):	70	Source of Data:	
Screened Interval (ft):	40-45	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1468.2		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
TILL	yellow, about 50% gravel	1-5
SAND	fine brown	5-10
SAND	fine gray	10-35
GRAVEL	medium	35-40
SAND & GRAVEL	medium gravel to fine sand	40-45
SHALE	gray cobbles	45-59
CLAY	gray	59-70

**151-062-20ABB**

NDSWC 5294

Date Completed:	5/16/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):	148-151	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1482.8		

## Lithologic Log

Unit	Description	Depth (ft)
GRAVEL	fine to medium, angular to subrounded, moderately to poorly sorted, mostly carbonates and shale, some quartz and granites, oxidized, taking water, mixed 1 mud	0-22
GRAVEL	fine to very coarse, angular to subrounded, poorly sorted, 70% shale, 20% carbonates, 10% quartz and granitics, taking some water	22-33
CLAY	very silty, sandy, medium dark gray, soft, smooth, sticky, with some interbedded coarse sands, little to poor sample return	33-39
GRAVEL	fine to medium, with some coarse sand, subangular to subrounded, moderate to poor sorting, mostly shale and carbonates	39-53
CLAY	very silty, sandy, medium dark gray, very soft, sticky, fluvial	53-63
SAND & GRAVEL	as above, more % of coarse sand,	63-85
CLAY	very silty, as above, fluvial	85-120
GRAVEL	medium to coarse, nearly all shale with some carbonates, angular to subangular, poor sorting, tripped for rock bit at 170 feet, coarse carbonate gravel from 173 to 181, drilled rather slowly for a gravel	120-181
CLAY	shale, medium dark gray to black, very tight, brittle, non-calcareous, Pierre formation	181-200

**151-062-20CCB**

USGS

Date Completed:	1/1/50	Well Type:	
Depth Drilled (ft):	125	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		

**151-062-20CDA**

NDSWC 11004

Date Completed:	7/31/79	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	
Screened Interval (ft):	78-81	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1476.9		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	fine to coarse, mostly medium to coarse, with some gravel, light brown, oxidized	1-24
SAND	as above, less gravel	24-44
GRAVEL	fine to coarse, 50% shale	44-68
SAND	coarse with gravel, fine to medium, gravel is mostly shale	68-101
CLAY	light gray, very silty and sandy	101-110
CLAY	black, silty, carbonaceous	110-115
CLAY	dark olive gray, smooth, hard, sticky, Pierre Shale, bedrock	115-140

**151-062-20DAD1**

NDSWC 11005A

Date Completed:	7/31/79	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):	143-146	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1470.5		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	fine to medium, gray	1-5
SAND	brown, fine to coarse, mostly coarse, with gravel, fine to medium gravel, mostly shale, a few pebbles	5-16
SAND	as above light gray, little gravel, some lignite	16-57
GRAVEL	coarse, with pebbles, mostly shale	57-68
CLAY	sandy, silty, light olive gray, till	68-82
CLAY	till as above with gravel layers	82-94
CLAY	till as above with sand layers	94-108
CLAY	dark olive gray, compact, sticky	108-109
SAND	coarse, some fine angular gravel, mostly shale	109-137
CLAY	poor return	137-141
GRAVEL	fine to coarse, some sand, 15% lignite, coarse towards bottom	141-156
CLAY	clay	156-161
GRAVEL	as above	161-168
CLAY	dark olive gray, hard, brittle, Pierre formation	168-200

**151-062-20DAD2**

NDSWC 11005B

Date Completed:	7/31/79	Well Type:	1.25 inch PVC
Depth Drilled (ft):	80	Source of Data:	
Screened Interval (ft):	55-58	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1470.7		

## Lithologic Log

Unit	Description	Depth (ft)
see log for 20DAD1		

**151-062-20DBA**

Waldo

Date Completed:	1/1/79	Well Type:	Steel 12 inch
Depth Drilled (ft):	160	Source of Data:	drillers files
Screened Interval (ft):	101-131	Principal Aquifer :	Spiritwood aquifer
L.S. Elevation (ft)			

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
TILL	40% fine sand	1-5
TILL		5-10
GRAVEL	medium to coarse	10-20
TILL		20-25
GRAVEL	medium	25-30
SAND	fine	30-40
GRAVEL	medium, layered with clay	40-45
GRAVEL	medium to coarse	45-55
SAND & GRAVEL		55-134
CLAY	with cobbles	134-140
CLAY		140-148
COBBLES	10% gravel	148-160

**151-062-21ACB**

Beckstrand

Date Completed:	1975	Well Type:	12 inch steel
Depth Drilled (ft):	222	Source of Data:	drillers files
Screened Interval (ft):	147-182	Principal Aquifer :	Spiritwood aquifer
L.S. Elevation (ft)			

**151-062-21BAA**

NDSWC 5550

Date Completed:	10/16/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	200	Source of Data:	Randich, 1971
Screened Interval (ft):	160-166	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1485.5		

**151-062-22BBBB2**

NDSWC 5549

Date Completed:	10/16/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	0	Source of Data:	Randich, 1971
Screened Interval (ft):	171-177	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1476.3		

**151-062-23AAC**

Hanson

Date Completed:	1/1/77	Well Type:	Steel 12 inch
Depth Drilled (ft):	260	Source of Data:	
Screened Interval (ft):	227-252	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1480		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	fine	1-21
CLAY	gray	21-36
LIGNITE		36-41
CLAY	gray	41-155
SAND	fine	155-177
GRAVEL	medium	177-195
GRAVEL	medium with coal	195-215
SAND & GRAVEL	coarse	215-260

**151-062-23ABB**

NDSWC 5283

Date Completed:	5/12/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	320	Source of Data:	
Screened Interval (ft):	228-231	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1477.2		

**Lithologic Log**

Unit	Description	Depth (ft)
SAND	fine to coarse sand, mostly medium sand, well sorted, subangular to rounded, mostly quartz (40%), also some carbonates, shale, and lignite, coarse bed of lignitic sand at 35 feet, oxidized zone ends at 26 feet, taking water, mixed mud at 60 feet	0-58
GRAVEL	sandy, fine to coarse gravel, mostly fine gravel, fine to coarse sand, moderately sorted and rounded, mostly shale gravel (390% to 40%)	58-66
SILT	clayey, sandy, light to dark gray clay, medium to coarse sand interbedded	66-74
SILT	very clayey, very poor return, medium to dark gray, 80% silt	74-93
CLAY	medium to dark gray, very plastic and compact	93-100
CLAY	silty, sandy, pebbles, dark gray, fine to coarse sand and pebbles, till	100-118
CLAY	silty, medium dark gray, very compact, moderately plastic	118-136
SAND	fine to very coarse, mostly medium sand, fairly well sorted, very coarse sand is mostly lignite, fine to medium sand is mostly quartz,	136-176
SAND	as above, mostly coarse to very coarse, some fine gravel, abundant shale pebbles, slightly plastic, taking water	176-277
CLAY	shale, silty, medium light to dark gray with some brownish gray, tight, cohesive, brittle, calcareous, Niobrara formation, bedrock	277-320

**151-062-24AAA**

NDSWC 5548

Date Completed:	10/16/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	220	Source of Data:	Randich, 1971
Screened Interval (ft):	197-203	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1491.8		

**151-062-24CCC**

NDSWC 5292

Date Completed:	5/11/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	320	Source of Data:	
Screened Interval (ft):	258-261	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1481.2		

**Lithologic Log**

Unit	Description	Depth (ft)
SAND	gravelly, fine to coarse sand, fine gravel, mostly medium sand, well sorted, angular to rounded, oxidized	0-14
GRAVEL	sandy, fine to coarse gravel, fine to coarse sand, mostly medium gravel, mostly shale, fair to well sorted, rounded to slightly angular	14-21
CLAY	silty, sandy, medium plastic, dark gray clay, fine to medium sand (15%)	21-25
CLAY	light to dark gray, very plastic, compact	25-71
SAND	very fine to medium, mostly fine sand, very well sorted, mostly quartz, some lignite fragments	71-92
SAND	coarse sand with layers of lignite	92-94
CLAY	silty, dark gray, clay, 10 to 20 % silt, very plastic and cohesive, very compact at 135 feet	94-142
SAND	very fine to medium sand, mostly fine sand, very well sorted	142-150
SAND AND CLAY	interbedded, fine sand and gray clay, moderately compact	150-162
SAND	coarse lignitic sand interbedded with dark gray clay	162-172
SAND	as above, interbedded, more lignite	172-181
SAND	fine to medium, mostly medium, well sorted, subrounded	181-187
GRAVEL	sandy, fine to medium gravel, medium to coarse sand, mostly fine gravel, mostly quartz, shale and carbonates, some lignite, moderately well sorted, subrounded, bed of medium gravel, lignite fragments at 250 feet, some clay layers at 290 feet	187-300
CLAY	silty, dark gray clay, very compact, plastic (Niobrara) bedrock	300-320

**151-062-25ACD**

Heck

Date Completed:	1/1/75	Well Type:	Steel 10 inch
Depth Drilled (ft):	302	Source of Data:	
Screened Interval (ft):	220-250	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)			

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellow silty, with sand	1-14
TILL		14-40
SAND	very fine, green	40-50
TILL	gray	50-58
SAND	fine, gray	68-72
CLAY	lake bed	72-160
SAND	coarse sand to medium gravel	160-200
SAND & GRAVEL	medium to coarse sand and coarse gravel	200-250
GRAVEL	with clay layers	250-280
SHALE		280-302

**151-062-26BBA**

USBR

Date Completed:	1/1/52	Well Type:	
Depth Drilled (ft):	13	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1469		

**151-062-27AAA1**

NDGS

Date Completed:	1/1/67	Well Type:	
Depth Drilled (ft):	24	Source of Data:	Randich, 1971
Screened Interval (ft):	14-16	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1468.4		

**151-062-27AAA2**

NDSWC 5464

Date Completed:	9/10/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	320	Source of Data:	Randich, 1971
Screened Interval (ft):	198-204	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1468.6		

**151-062-27ABC**

Mannie

Date Completed:	1/1/77	Well Type:	Steel 10 inch
Depth Drilled (ft):	190	Source of Data:	
Screened Interval (ft):	165-187	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1470		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-2
SAND	fine to coarse, 10% gravel	2-26
CLAY	silty	26-149
GRAVEL	fine to coarse, 10% sand	149-187
BEDROCK		187-190

**151-062-27BAD**

Water Supply Inc.

Date Completed:	1/1/76	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):	157-187	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1470		

## Lithologic Log

Unit	Description	Depth (ft)
See log for 27ABC		

**151-062-27DDDA**

NDSCW 11324

Date Completed:	9/1/83	Well Type:	1.25 inch PVC
Depth Drilled (ft):	220	Source of Data:	
Screened Interval (ft):	188-193	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1464.08		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	dark brown, sandy,	0-1
SAND	yellowish brown, fine to medium, oxidized	1-10
SAND	gray, fine, to coarse unoxidized	10-12
TILL	olive gray, pebbly clay loam, sticky, cohesive, plastic, moderately hard	12-24
CLAY	dark gray, slightly silty clay, massive, cohesive plastic, sticky, hard	24-53
CLAY	olive gray, sandy, pebbly loam, cohesive, plastic	53-69
SAND	gray, slightly silty, fine to medium sand, lignite layers	69-85
CLAY	slightly silty, gray, whitish gray bentonitic clay, drills smooth, very hard, looks like bedrock, massive, lake clay?	85-112
SAND	gray, silty, very fine to fine sand, abundant lignite layers	112-148
SAND & GRAVEL	medium sand to granule gravel, largely coarse sand, moderately well sorted, 60% silicates, rounded, 30% shale and lignite, angular, and 10% carbonates, subrounded	148-184
SAND & GRAVEL	very coarse sand to medium gravel, largely fine gravel, moderately well sorted except for large fragments of shale and lignite, 50% silicates, 30% shale and lignite, and 20% carbonates	184-197
SHALE	black to dark gray shale, hard, interbedded with dark gray clay and whitish gray bentonitic clay, Pierre Shale, bedrock	197-220

**151-062-29BCC**

NDGS

Date Completed:	1/1/68	Well Type:	
Depth Drilled (ft):	15	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	Warwick
L.S. Elevation (ft)	1475		

**151-062-30ADD**

NDGS

Date Completed:	1/1/68	Well Type:	
Depth Drilled (ft):	63	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1475		

**151-062-30DDA**

NDSCW 5046

Date Completed:	7/18/68	Well Type:	
Depth Drilled (ft):	40	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		

**151-062-31AAB**

NDGS

Date Completed:	1/1/68	Well Type:	
Depth Drilled (ft):	9	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1475		

**151-062-32BCC**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	15	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1490		

**151-062-32CCB**

NDGS

Date Completed:		Well Type:	1.25 inch abs
Depth Drilled (ft):	19	Source of Data:	Randich, 1971
Screened Interval (ft):	15-19	Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1468		

**151-062-33CAD**

USGS

Date Completed:		Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	0		

**151-062-33CDB**

Tribe

Date Completed:	1/1/79	Well Type:	Steel 14 inch
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):	58-83	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1470		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	20 to 30 slot	2-44
SAND	fine with gray clay	44-56
SAND & GRAVEL	30 slot	56-83
CLAY		83-100

**151-062-33DBB**

Tribe

Date Completed:	1/1/79	Well Type:	Steel 12 inch
Depth Drilled (ft):	75	Source of Data:	
Screened Interval (ft):	33-58	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1470		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-2
SAND	brown, 20 slot	2-24
SAND & GRAVEL	30 slot	24-47
SAND	20 slot	47-58
CLAY	gray, with cobbles	58-75

**151-062-34DDD**

NDSWC 2875

Date Completed:	10/19/67	Well Type:	1.25 inch abs
Depth Drilled (ft):	220	Source of Data:	Randich, 1971
Screened Interval (ft):	167-170	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1466.1		

**151-062-36AAA**

NDSWC 11325

Date Completed:	9/2/83	Well Type:	1.25 inch PVC
Depth Drilled (ft):	260	Source of Data:	
Screened Interval (ft):	198-203	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1476.9		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL	dark brown, sandy	0-1
SAND & GRAVEL	yellowish brown, fine sand to fine gravel, oxidized	1-15
CLAY	olive gray, sandy, pebbly clay loam, moderately cohesive, slightly sticky, crumbly, sandy till, unoxidized	15-25
CLAY	olive gray to gray, slightly silty clay, massive, cohesive, plastic, lake clay	25-51
SAND	gray, silty, very fine to fine, well sorted, soft, lignitic layers	51-97
CLAY	olive gray, silty clay, massive, cohesive, plastic, some bentonite at 97 feet, lake clay?	97-141
SAND	silty, very fine to fine	141-174
SAND	medium to very coarse sand, moderately well to well sorted, mostly medium sand, 60% silicates, 20% shale and 20% carbonates	174-248
CLAY	dark gray clay, interbedded with black shale, Pierre Shale, bedrock	248-260

**151-062-36CCC**

NDSWC 5463

Date Completed:	9/10/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	270	Source of Data:	Randich, 1971
Screened Interval (ft):	197-203	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1462.3		

	<b>151-063-10CCC</b> NDSWC 415	
Date Completed:	5/16/51	Well Type:
Depth Drilled (ft):	160	Source of Data:
Screened Interval (ft):		Principal Aquifer :
L.S. Elevation (ft)	1471	Randich, 1971 Spiritwood Aquifer
	<b>151-063-12DCC</b> NDSWC 5467	
Date Completed:	1/1/69	Well Type:
Depth Drilled (ft):	200	Source of Data:
Screened Interval (ft):		Principal Aquifer :
L.S. Elevation (ft)	1465	Randich, 1971 No Obs Well
	<b>151-063-14AAA4</b> USBR	
Date Completed:	10/10/50	Well Type:
Depth Drilled (ft):	31	Source of Data:
Screened Interval (ft):		Principal Aquifer :
L.S. Elevation (ft)	1489	Randich, 1971 No Obs Well
	<b>151-063-14DDD</b> NDSWC 2876	
Date Completed:	10/19/67	Well Type:
Depth Drilled (ft):	80	Source of Data:
Screened Interval (ft):		Principal Aquifer :
L.S. Elevation (ft)	1470	1.25 inch abs Randich, 1971 Warwick Aquifer
	<b>151-063-16DAA</b> NDSWC 416	
Date Completed:	5/17/51	Well Type:
Depth Drilled (ft):	85	Source of Data:
Screened Interval (ft):		Principal Aquifer :
L.S. Elevation (ft)	1480	Randich, 1971 No Obs Well
	<b>151-063-16DDA</b> NDGS	
Date Completed:	1/1/68	Well Type:
Depth Drilled (ft):	33	Source of Data:
Screened Interval (ft):	20-25	Principal Aquifer :
L.S. Elevation (ft)	1470	1.25 inch abs Randich, 1971
	<b>151-063-16DDB</b> Kresbach Irrigation well	
Date Completed:		Well Type:
Depth Drilled (ft):		Source of Data:
Screened Interval (ft):		Principal Aquifer :
L.S. Elevation (ft)		Irrigation no log submitted Warwick
	<b>151-063-16DDD</b> USGS	
Date Completed:	1/1/51	Well Type:
Depth Drilled (ft):	100	Source of Data:
Screened Interval (ft):		Principal Aquifer :
L.S. Elevation (ft)	1464	Randich, 1971 No Obs Well
	<b>151-063-19ABA</b> NDSWC 406	
Date Completed:	4/24/51	Well Type:
Depth Drilled (ft):	40	Source of Data:
Screened Interval (ft):		Principal Aquifer :
L.S. Elevation (ft)	1477	Randich, 1971 No Obs Well
	<b>151-063-20BCB</b> NDSWC 407	
Date Completed:	4/25/51	Well Type:
Depth Drilled (ft):	150	Source of Data:
Screened Interval (ft):		Principal Aquifer :
L.S. Elevation (ft)	1468	Randich, 1971 No Obs Well

**151-063-20BCD**  
NDSWC 408

Date Completed:	4/26/51	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1478		

**151-063-20CAC**  
NDSWC 409

Date Completed:	4/27/51	Well Type:	
Depth Drilled (ft):	145	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1481		

**151-063-20CDA**  
NDSWC 422

Date Completed:	5/31/51	Well Type:	
Depth Drilled (ft):	195	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1483		

**151-063-20CDD1**  
NDSWC 423

Date Completed:	6/1/51	Well Type:	
Depth Drilled (ft):	190	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1482		

**151-063-20CDD2**  
NDSWC 454

Date Completed:	5/18/51	Well Type:	
Depth Drilled (ft):	125	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1482		

**151-063-20CDD3**  
NDSWC 455

Date Completed:	5/18/51	Well Type:	
Depth Drilled (ft):	125	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1484		

**151-063-20CDD4**  
NDSWC 456

Date Completed:	5/18/51	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1483		

**151-063-20CDD5**  
NDSWC 486

Date Completed:	5/18/51	Well Type:	
Depth Drilled (ft):	150	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1482		

**151-063-20CDD6**  
NDSWC 501

Date Completed:	4/9/52	Well Type:	
Depth Drilled (ft):	186	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1483		

151-063-20CDD7

NDSWC 502

Date Completed: 4/16/52 Well Type: \_\_\_\_\_  
Depth Drilled (ft): 188 Source of Data: Randich, 1971  
Screened Interval (ft): Principal Aquifer : No Obs Well  
L.S. Elevation (ft) 1482

151-063-20CDD8

NDSWC 503

Date Completed: 4/18/52 Well Type:  
Depth Drilled (ft): 40 Source of Data: Randich, 1971  
Screened Interval (ft): Principal Aquifer : No Obs Well  
L.S. Elevation (ft) 1482

151-063-20CDD9

NDSWC 504

Date Completed: 4/19/52 Well Type:  
Depth Drilled (ft): 189 Source of Data: Randich, 1971  
Screened Interval (ft): 129-131 Principal Aquifer : Warwick Aquifer  
L.S. Elevation (ft) 1483

151-063-20CDD10

NDSWC 505

Date Completed: 4/22/52 Well Type:  
Depth Drilled (ft): 40 Source of Data: Randich, 1971  
Screened Interval (ft): Principal Aquifer : No Obs Well  
L.S. Elevation (ft) 1483

151-063-20CDD11

D.L.

Date Completed: 1/1/61 Well Type:  
Depth Drilled (ft): 135 Source of Data: Randich, 1971  
Screened Interval (ft): Principal Aquifer : No Obs Well  
L.S. Elevation (ft) 1483

151-063-20CDD12

D.L.

Date Completed: 1/1/52 Well Type:  
Depth Drilled (ft): 155 Source of Data: Randich, 1971  
Screened Interval (ft): Principal Aquifer : No Obs Well  
L.S. Elevation (ft) 1480

151-063-20DCC

NDSWC 5289

Date Completed: 5/11/78 Well Type: 1.25 inch PVC  
Depth Drilled (ft): 60 Source of Data:  
Screened Interval (ft): 37-40 Principal Aquifer : Warwick Aquifer  
L.S. Elevation (ft) 1481.9

## Lithologic Log

Unit                      Description                      Depth (ft)

SAND fine to very coarse, mostly medium to coarse, subrounded to rounded, moderate sorting, mostly quartz, with carbonates, some shale and a little lignite, taking water, mixed 2 bags of mud

medium dark gray,

, lake clia  
668-223

NDSWC 404

Date Completed:	4/17/51	Well Type:	
Depth Drilled (ft):	194	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1480		

**151-063-20DDC**

NDSWC 5290

Date Completed:	5/11/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	60	Source of Data:	
Screened Interval (ft):	33-36	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1482.1		

**Lithologic Log**

Unit	Description	Depth (ft)
SAND & GRAVEL	fine to very coarse sand, fine gravel, mostly medium to coarse sand, moderate sorting, subrounded to angular, mostly quartz and carbonates, trace of lignite, taking water, mixed 2 bags of mud	0-39
CLAY	silty, dark gray clay, greater than 30% silt, poor sample recovery, lake clays	39-60

**151-063-20DDD**

NDSWC 5291

Date Completed:	5/11/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	43	Source of Data:	
Screened Interval (ft):	23-26	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1481		

**Lithologic Log**

Unit	Description	Depth (ft)
SAND	very fine to coarse, mostly medium sand, moderately well sorted, well rounded to subangular, 30% quartz, 30% carbonates, 20% shale, trace of very fine lignite, oxidized to 27 feet	0-29
SAND	as above, mostly fine to medium sand	29-32
CLAY	silty, dark gray clay, moderately cohesive, not too plastic, 10 to 20% silt	32-37
GRAVEL	sandy, fine to coarse gravel, medium to coarse sand, mostly medium to coarse gravel, very shaly (70% to 80%), 10% quartz, carbonates, igneous and metamorphic, moderate sorting, subrounded to angular, traces of lignite	37-43

**151-063-20DD2**

NDSWC 5301

Date Completed:	5/18/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	80	Source of Data:	
Screened Interval (ft):	61-64	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1481		

**Lithologic Log**

Unit	Description	Depth (ft)
SAND	gravelly, fine to coarse sand, fine to medium gravel, mostly medium sand, fairly well sorted, well rounded, mostly quartz, clay 8 to 12 feet	0-15
SILT	sandy, clayey, poor recovery, 70 to 80 % silt	15-25
SAND	fine to medium, well sorted, subangular	25-31
SILT	sandy, clayey, as above	31-36
GRAVEL	sandy, fine to medium gravel (40%), mostly fine gravel, fine to coarse sand (60%), mostly shale, fair sorting, angular to rounded	36-46
SILT	clayey, poor return, dark gray, 80% silt not too plastic	46-48
GRAVEL	sandy, as above, mostly fine gravel, mostly shale, fairly well sorted, angular to subrounded	48-60
CLAY	silty, dark gray clay with 40% silt, not too plastic or cohesive	60-62
GRAVEL	sandy fine to coarse gravel, becomes coarser and more shaly with depth, taking water	62-80

**151-063-21DAA**

NDSWC 417

Date Completed:	5/18/51	Well Type:	
Depth Drilled (ft):	95	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1477		

**151-063-22CBB**

NDSWC 5302

Date Completed:	5/18/78	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	
Screened Interval (ft):	50-53	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1472.6		

**Lithologic Log**

Unit	Description	Depth (ft)
CLAY	silty, medium gray, clay, 30 to 40% silt, not too plastic or cohesive	0-4
SAND	gravelly, fine to coarse sand, fine to coarse gravel, mostly medium sand, fairly well sorted, moderately rounded	4-20
SAND	fine to medium sand, mostly medium, well sorted to very well sorted, mostly shale(40%), few layers of lignitic coarse sand and medium gray clay, less than 1 foot in thickness	20-36
SAND	fine to very coarse, mostly coarse to medium sand, mostly shale, well sorted, moderately rounded to subangular	36-42
GRAVEL	sandy, fine to coarse gravel, medium to coarse sand, mostly medium gravel, subangular to rounded, mostly shale	42-57
CLAY	silty, sandy, gravelly, medium dark clay, not too cohesive, oxidized at 64 to 71 feet, some coarse lignitic sand, boulders at 83 to 108, till	57-140

**151-063-24CBC**

NDSWC 5468

Date Completed:	9/11/69	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		

**151-063-25A**

Tribe

Date Completed:		Well Type:	Irrigation well
Depth Drilled (ft):		Source of Data:	
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)			

## Lithologic Log

Unit	Description	Depth (ft)
no log		

**151-063-25AAB**

NDSWC 2996

Date Completed:	1/1/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):	92-95	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1469.3		

**151-063-25ACB**

NDSWC 2995

Date Completed:	1/1/68	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Randich, 1971
Screened Interval (ft):	18-59	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1475		

**151-063-25ADB1**

Kjorle.

Date Completed:		Well Type:	
Depth Drilled (ft):	84	Source of Data:	Randich, 1971
Screened Interval (ft):	0-41	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1470		

**151-063-25ADB2**

NDSWC 2993

Date Completed:		Well Type:	
Depth Drilled (ft):	120	Source of Data:	Randich, 1971
Screened Interval (ft):	18-49	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1470		

**151-063-25ADB3**

NDSWC 2994

Date Completed:		Well Type:	
Depth Drilled (ft):	80	Source of Data:	Randich, 1971
Screened Interval (ft):	18-64	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1470		

**151-063-25ADB4**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	39	Source of Data:	Randich, 1971
Screened Interval (ft):	32-35	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)			

**151-063-25BBB**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	53	Source of Data:	Randich, 1971
Screened Interval (ft):	45-47	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1475		

**151-063-25BCD**

Coenen

Date Completed:	3/2/76	Well Type:	Steel 12 inch
Depth Drilled (ft):	133	Source of Data:	
Screened Interval (ft):	45-70	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1470		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	fine, brown	1-22
SAND	fine, gray	22-34
SAND & GRAVEL	brown,	34-93
SAND	and shale	93-108
CLAY	gray, soft	108-117
SAND	brown	117-124
SHALE		124-133

**151-063-26BCC**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	14	Source of Data:	Randich, 1971
Screened Interval (ft):	10-12	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1467		

**151-063-26CBB**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	16	Source of Data:	Randich, 1971
Screened Interval (ft):	14-16	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1465		

**151-063-27CBA**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	19	Source of Data:	Randich, 1971
Screened Interval (ft):	14-15	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1470		

**151-063-28AAA**

NDSWC 418

Date Completed:		Well Type:	
Depth Drilled (ft):	200	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1468		

**151-063-28ADA**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	47	Source of Data:	Randich, 1971
Screened Interval (ft):	38-40	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1475		

**151-063-28ADD**

Devils Lake

Date Completed:	1/1/51	Well Type:	
Depth Drilled (ft):	78	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1476		

**151-063-28CCB**

NDSWC 412

Date Completed:	1/1/51	Well Type:	
Depth Drilled (ft):	90	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1468		

**151-063-28CCD**

NDSWC 410

Date Completed:	1/1/51	Well Type:	
Depth Drilled (ft):	200	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1565		

**151-063-29A**

Devils Lake

Date Completed:		Well Type:	
Depth Drilled (ft):		Source of Data:	
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)			

## Lithologic Log

Unit	Description	Depth (ft)
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no log

**151-063-29AAC1**

NDSWC 411

Date Completed:	1/1/51	Well Type:	
Depth Drilled (ft):	210	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1481		

**151-063-29AAC2**

NDSWC 424

Date Completed:	1/1/51	Well Type:	1.25 inch abs
Depth Drilled (ft):	80	Source of Data:	Randich, 1971
Screened Interval (ft):	0-67	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1483		

**151-063-29ABB1**

D.L.

Date Completed:		Well Type:	
Depth Drilled (ft):	70	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1480		

**151-063-29ABB2**

NDSWC 419

Date Completed:		Well Type:	1.25 inch abs
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1482		

**151-063-29ABBB**

Devils Lake #12

Date Completed:		Well Type:	
Depth Drilled (ft):	0	Source of Data:	Randich, 1971
Screened Interval (ft):	0-167	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1480		

## Lithologic Log

Unit	Description	Depth (ft)
29 ABA in Randich, 1971		

**151-063-29ABC1**

Devils Lake

Date Completed:		Well Type:	
Depth Drilled (ft):	70	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1480		

## Lithologic Log

Unit	Description	Depth (ft)
no log		

**151-063-29ABC2**

Devils Lake #13

Date Completed:		Well Type:	
Depth Drilled (ft):	0	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1481		

## Lithologic Log

Unit	Description	Depth (ft)
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now is 29ABDC

**151-063-29ABCD**

Devils Lake #10

Date Completed:		Well Type:	
Depth Drilled (ft):	0	Source of Data:	Randich, 1971
Screened Interval (ft):	0-108	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1482		

## Lithologic Log

Unit	Description	Depth (ft)
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no log, see  
ABD2

**151-063-29ABDC**  
 Devils Lake #13  
 Date Completed:  
 Depth Drilled (ft): 0 Well Type:  
 Screened Interval (ft): 87-0 Source of Data: Randich, 1971  
 L.S. Elevation (ft) 1480 Principal Aquifer : Warwick Aquifer

Lithologic Log		
Unit	Description	Depth (ft)
no		
log, 29ABC2,		
Randich, 1971		

**151-063-29ACBD**  
 Devils Lake #11  
 Date Completed:  
 Depth Drilled (ft): 0 Well Type:  
 Screened Interval (ft): 112 Source of Data: Randich, 1971  
 L.S. Elevation (ft) Principal Aquifer : Warwick Aquifer

Lithologic Log		
Unit	Description	Depth (ft)
no log, see		
29ABD1,		

**151-063-29BAA1**  
 NDSWC 420  
 Date Completed:  
 Depth Drilled (ft): 190 Well Type:  
 Screened Interval (ft): Principal Aquifer : Randich, 1971  
 L.S. Elevation (ft) 1480 Source of Data: No Obs Well

**151-063-29BAA2**  
 NDSWC 487  
 Date Completed:  
 Depth Drilled (ft): 150 Well Type:  
 Screened Interval (ft): Principal Aquifer : Randich, 1971  
 L.S. Elevation (ft) 1483 Source of Data: No Obs Well

**151-063-29DAA**  
 NDSWC 405  
 Date Completed:  
 Depth Drilled (ft): 140 Well Type:  
 Screened Interval (ft): Principal Aquifer : Randich, 1971  
 L.S. Elevation (ft) 1476 Source of Data: No Obs Well

**151-063-29DCC**  
 NDGS  
 Date Completed:  
 Depth Drilled (ft): 47 Well Type:  
 Screened Interval (ft): 40-42 Source of Data: Randich, 1971  
 L.S. Elevation (ft) 1476 Principal Aquifer : Warwick Aquifer

**151-063-31BBC**  
 NDSWC 5049  
 Date Completed: 7/19/68 Well Type:  
 Depth Drilled (ft): 140 Source of Data: Randich, 1971  
 Screened Interval (ft): 37-40 Principal Aquifer : Warwick Aquifer  
 L.S. Elevation (ft) 1485

**151-063-33DAD**

Kraft

Date Completed:		Well Type:	Steel 12 inch
Depth Drilled (ft):	0	Source of Data:	
Screened Interval (ft):	36-61	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1477.1		

## Lithologic Log

Unit	Description	Depth (ft)
SAND	brown, fine	0-16
SAND	fine to medium, gray	16-27
SAND	30 to 40 slot, with some cobbles	27-63
SHALE		63-70

**151-063-33DBB**

NDSWC 413

Date Completed:	5/12/51	Well Type:	
Depth Drilled (ft):	110	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1476		

**151-063-34CAA**

Warwick

Date Completed:	1/1/77	Well Type:	PVC 6 inch
Depth Drilled (ft):	67	Source of Data:	
Screened Interval (ft):	47-67	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)			

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-2
SAND		2-7
CLAY	sandy	7-24
SAND	drilled poor	24-47.5
GRAVEL		47.5-48
SAND	drilled poor	48-52
SAND	drilled fair	52-61
SAND	drills poor	61-67

**151-063-35CCC**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	26	Source of Data:	Randich, 1971
Screened Interval (ft):	19-24	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1470		

**151-063-35DCC**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	51	Source of Data:	Randich, 1971
Screened Interval (ft):	33-38	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1465		

**151-063-36ADA**

NDSWC 334

Date Completed:		Well Type:	
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1468		

**151-063-36CCC**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	82	Source of Data:	Randich, 1971
Screened Interval (ft):	19-24	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1470		

**151-064-02CDB**

Tokio

Date Completed:		Well Type:	
Depth Drilled (ft):	0	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)			

## Lithologic Log

Unit	Description	Depth (ft)
no log		

**151-064-02DAD**

NDSWC 11884

Date Completed:	9/24/86	Well Type:	
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	28-38	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1493.6		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL	road fill	0-1
CLAY	yellowish brown, silty, very sandy with pebbles, gravelly, gravel layer from 2 to 3 feet (till)	1-24
SAND	gravelly, oxidized, poor return, mainly shales and carbonates	24-31
CLAY	oxidized, yellowish brown, iron stained	31-35
CLAY	olive gray, slightly silty, sticky	35-36
SAND	gravelly, 80 % shale, remainder carbonates, well rounded to subrounded, unoxidized	36-40

**151-064-04CCC**

NDSWC 5474

Date Completed:	9/17/69	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):	97-103	Principal Aquifer :	Tokio Aquifer
L.S. Elevation (ft)	1556.6		

**151-064-04CCC2**

NDSWC 11886

Date Completed:	9/24/86	Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	15-20	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1545		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	fill	0-1
SAND	very fine to coarse, some fine gravel, well rounded to subrounded, 75 % to 80 % shale, remainder carbonates and quartz, oxidized, iron stained	1-16
SAND	as above, unoxidized	16-25
well screened above WT		

**151-064-04CCC3**

NDSWC 11947

Date Completed:	11/4/86	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	34-39	Principal Aquifer :	Tokio Aquifer
L.S. Elevation (ft)	1556.1		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	slightly silty, oxidized, sticky	1-4
SAND	very fine to medium, oxidized, well rounded to subrounded, some gravel	4-17
SAND	unoxidized, well rounded to subrounded, drills fast and clean	17-40

**151-064-06BCB**

NDSWC 11887

Date Completed:	9/24/86	Well Type:	2 inch PVC
Depth Drilled (ft):	60	Source of Data:	
Screened Interval (ft):	52-57	Principal Aquifer :	well dry
L.S. Elevation (ft)	1600		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	gravel, medium sand to fine gravel, some 1 to 2 inch diameter, well rounded to oblong, 80 % shale, remainder carbonates and quartz, oxidized	1-36
SAND	gravel as above, unoxidized, very hard to determine transition zone	36-60

**151-064-06CCC**

NDGS

Date Completed:		Well Type:	destroyed
Depth Drilled (ft):	54	Source of Data:	Randich, 1971
Screened Interval (ft):	39-49	Principal Aquifer :	Tokio Aquifer
L.S. Elevation (ft)	1585		

**151-064-06CCC2**

NDSWC 11948

Date Completed:	11/4/86	Well Type:	2 inch PVC
Depth Drilled (ft):	80	Source of Data:	
Screened Interval (ft):	73-81	Principal Aquifer :	Tokio Aquifer
L.S. Elevation (ft)	1583.5		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
GRAVEL	sandy, oxidized, 70 % shale, well rounded to subrounded, rocky	1-4
CLAY	yellowish brown to gray, oxidized	4-7
GRAVEL	as above, oxidized	7-53
CLAY	olive gray, silty, sandy with pebbles, till	53-56
GRAVEL	sandy, unoxidized,	56-80

**151-064-10AAA**

NDSWC 2874

Date Completed:	10/18/67	Well Type:	1.25 inch abs
Depth Drilled (ft):	120	Source of Data:	Randich, 1971
Screened Interval (ft):	63-66	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1485.7		

**151-064-12BAA**

NDSWC 11946

Date Completed:	11/4/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	12.5-17.5	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1471.3		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
GRAVEL	sandy, oxidized, coarse sand to pea size gravel, iron stained, well rounded to subrounded, mostly shale	1-6
GRAVEL	oxidized, interbedded with oxidized silty, sandy till	6-15
GRAVEL	as above, unoxidized, mostly shale gravel	15-20

**151-064-15CBC**

NDSWC 11885

Date Completed:	9/24/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	14-19	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1548.8		

**Lithologic Log**

Unit	Description	Depth (ft)	
TOPSOIL		0-1	
CLAY	yellowish brown, silty, very sandy with pebbles, poorly sorted, oxidized till	1-16	
CLAY	olive gray, silty sandy with pebbles, till	16-18	
SAND	gravelly, 80 % shale, 20 % carbonates, well rounded to subrounded, fine sand to pea gravel	18-20	
	<b>151-064-18AAA</b>		
	NDSWC 2873		
Date Completed:	10/18/67	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1601		

**151-064-18BBB**

NDSWC 341

Date Completed:	10/14/50	Well Type:	
Depth Drilled (ft):	150	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1593		

**151-064-23DDC**

NDSWC 5469

Date Completed:	9/12/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	200	Source of Data:	Randich, 1971
Screened Interval (ft):	118-121	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1599.7		

**151-064-29BBB**

NDSWC 340

Date Completed:	10/13/50	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1583		

**151-064-33AAA**

NDSWC 5050

Date Completed:	7/14/68	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1590		

**151-065-02AAA**

NDSWC 343

Date Completed:	10/17/50	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1615		

**151-065-02CDD**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	19	Source of Data:	Randich, 1971
Screened Interval (ft):	12-14	Principal Aquifer :	Tokio Aquifer
L.S. Elevation (ft)	1541.7		

**151-065-02DCC**

NDSWC 342

Date Completed:		Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	Tokio Aquifer
L.S. Elevation (ft)	1543		

**151-065-02DDC**

NDSWC 5473

Date Completed:	9/16/69	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1540		

**151-065-04DDC**

NDSWC 5688

Date Completed:	6/2/70	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1545		

**151-065-06DCC**

NDSWC 11890

Date Completed:	9/24/86	Well Type:	2 inch PVC
Depth Drilled (ft):	60	Source of Data:	
Screened Interval (ft):	52-57	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1536.4		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, very sandy, with pebbles, poorly sorted, oxidized till	1-23
GRAVEL	sandy, medium sand to marble size gravel, 10 % of the gravel is 1 to 2 inches across, rounded to subrounded, oxidized, taking water	23-49
CLAY	olive gray, very silty	49-55
CLAY	olive gray, silty sandy with pebbles and boulders, till	55-56
GRAVEL	sandy, unoxidized, mainly shale, well rounded to subrounded, medium sand to marble size gravel, caving	56-60

**151-065-07BBB**

NDSWC 5477

Date Completed:	9/17/69	Well Type:	
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1525		

**151-065-08ABA**

NDSWC 5475

Date Completed:	9/17/69	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1540		

**151-065-13DBC1**

NDSWC 11888

Date Completed:	9/24/86	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	33-38	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1595		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	oxidized, 80 % shale, gravel, fine sand to marble size gravel	1-13
CLAY	very sandy, yellow brown, oxidized, silty, crumbles, drills smooth	13-22
SAND	gravel, well rounded to subrounded, 80 % shale, 20 % carbonates and quartz, taking water, appears to be unoxidized, fine sand to pea gravel, drills fast	22-40

**151-065-13DBC2**

NDSWC 11949

Date Completed:	11/4/86	Well Type:	2 inch PVC
Depth Drilled (ft):	80	Source of Data:	
Screened Interval (ft):	74-79	Principal Aquifer :	Tokio Aquifer
L.S. Elevation (ft)	1591		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	gravelly, oxidized	1-16
CLAY	oxidized, yellowish brown, iron stained, drills smooth	16-18
SAND	gravelly, oxidized, well rounded to subrounded, 80 % shale, 20 % carbonates and quartz, fine sand to pea gravel, taking water	18-44
SAND	gray, unoxidized, description as above	44-80

**151-065-18CCC**

NDSWC 5478

Date Completed:	9/17/69	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1510		

**151-065-19CCC**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	14	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1495		

**151-065-19CCD**

NDSWC 11908

Date Completed:	9/30/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	13-18	Principal Aquifer :	Till
L.S. Elevation (ft)	1481.2		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	light gray, silty sandy with pebbles, till	1-3
CLAY	yellowish brown, silty, very sandy with pebbles, rocky, till	3-12
CLAY	olive gray, silty, very sandy with shale pebbles, poorly sorted, unoxidized, till	12-20

**151-065-20BBB**

NDSWC 2872

Date Completed:	10/17/67	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Randich, 1971
Screened Interval (ft):	58-60	Principal Aquifer :	Tokio Aquifer
L.S. Elevation (ft)	1545		

**151-065-22BDC1**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	33	Source of Data:	Randich, 1971
Screened Interval (ft):	32-39	Principal Aquifer :	Tokio Aquifer
L.S. Elevation (ft)	1510		

**151-065-22BDC2**

NDSWC 5052

Date Completed:	7/22/68	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1510		

**151-065-23BCC**

NDSWC 11889

Date Completed:	9/24/86	Well Type:	2 inch PVC
Depth Drilled (ft):	120	Source of Data:	
Screened Interval (ft):	105-110	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1602.9		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
GRAVEL	sandy, oxidized, medium sand to pea gravel, iron stained	1-13
CLAY	very sandy and silty, yellowish brown, oxidized	13-14
SAND	poor return	14-15
CLAY	yellowish brown, silty sandy with pebbles, poorly sorted, oxidized till	15-21
GRAVEL	fine to marble size, sandy, 50 % shales, 30 % carbonates, remainder quartz and igneous, gravel is mixture of oxidized and unoxidized, taking water like crazy, mixing mud	21-111
CLAY	olive gray, silty sandy with pebbles, poorly sorted, till	111-120

**151-065-26DDD**

NDSWC 5051

Date Completed:	7/22/68	Well Type:	
Depth Drilled (ft):	140	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1550		

**151-065-29BBB**

USBR

Date Completed:		Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1425		

**151-065-32DDDC**

NDSWC 11479

Date Completed:	9/5/84	Well Type:	
Depth Drilled (ft):	160	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1560		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL	dark brown, silty	0-1
CLAY	yellowish brown, sandy with pebbles, clay loam, oxidized till, slightly sticky, crumbly, moderately cohesive, massive, oxidized sand from 15 to 16 feet	1-29
CLAY	olive gray, sandy, pebbly, clay loam unoxidized till, slightly sticky, slightly plastic, moderately cohesive, massive	29-37
CLAY	very dark gray, sticky, greasy, plastic, cohesive, massive, looks like bedrock clays	37-49
CLAY	dark olive gray, sandy with pebbles, unoxidized till, sticky, plastic, cohesive, massive	49-54
CLAY	light gray to medium gray, laminated, clay silt, soft, slightly sticky, slightly plastic, finely laminated	54-61
GRAVEL	shale, fine to medium	61-62
TILL	unoxidized, sandy, dark olive gray	62-68
BOULDERS		68-69
CLAY	dark olive gray, sandy till	69-74
CLAY	dark gray, silty, soft, sticky, slightly plastic, massive	74-77
CLAY	dark olive gray, sandy, till	77-81
ROCKS		81-82
CLAY	dark olive gray, slightly sandy till, drills smooth, sticky, cohesive, plastic, massive	82-89
CLAY	and shale, olive gray to black, shale is hard, massive sticky bedrock	89-160

**151-066-01CCC**

NDSWC 5040

Date Completed:	7/22/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	120	Source of Data:	Randich, 1971
Screened Interval (ft):	47-50	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1532.7		

**151-066-04DDD**

NDSWC 2870

Date Completed:	10/17/67	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1480		

**151-066-09BBB**

NDSWC 11891

Date Completed:	9/24/86	Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	20-25	Principal Aquifer :	Till
L.S. Elevation (ft)	1560.54		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty sandy with pebbles, iron stained, oxidized till, transition zone, oxidized to unoxidized 13-16 feet	2-16
CLAY	olive gray to gray, silty, very sandy with pebbles, poorly sorted, unoxidized till	16-25

**151-066-19DDA**

USBR

Date Completed:		Well Type:	
Depth Drilled (ft):	25	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1550		

**151-066-21ABA**

USBR

Date Completed:		Well Type:	
Depth Drilled (ft):	40	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1545		

**151-066-21CBB**

USBR

Date Completed:		Well Type:	
Depth Drilled (ft):	25	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1547		

## Lithologic Log

Unit	Description	Depth (ft)
see Randich, 1971 for log		

**151-066-21CCC**

NDSWC 2871

Date Completed:	10/17/67	Well Type:	1.25 inch abs
Depth Drilled (ft):	80	Source of Data:	Randich, 1971
Screened Interval (ft):	28-30	Principal Aquifer :	Undefined
L.S. Elevation (ft)	1528		

**151-066-23ADD2**

USBR

Date Completed:		Well Type:	
Depth Drilled (ft):		Source of Data:	Randich, 1971
Screened Interval (ft):	20	Principal Aquifer :	
L.S. Elevation (ft)			

**151-066-23ADD3**

NDSWC 5053

Date Completed:	7/22/68	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1515		

**151-066-28CCC**

USBR

Date Completed:		Well Type:	
Depth Drilled (ft):	0	Source of Data:	Randich, 1971
Screened Interval (ft):	0-22	Principal Aquifer :	
L.S. Elevation (ft)			

## Lithologic Log

Unit	Description	Depth (ft)
no log,		

**151-066-32BBB**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	21	Source of Data:	Randich, 1971
Screened Interval (ft):	19-21	Principal Aquifer :	Undefined
L.S. Elevation (ft)	1493.8		

**151-068-04DCD**

NDSWC 5499

Date Completed:	9/24/69	Well Type:	
Depth Drilled (ft):	40	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1525		

**151-068-25BAA**

NDSWC 5062

Date Completed:	7/25/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	60	Source of Data:	Randich, 1971
Screened Interval (ft):	23-26	Principal Aquifer :	Maddock Aquifer
L.S. Elevation (ft)	1505.4		

**152-060-3BBC**

USGS 28A

Date Completed:		Well Type:	
Depth Drilled (ft):	110	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1510		

**152-060-3CAA**

USAF

Date Completed:		Well Type:	
Depth Drilled (ft):	100	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1510		

**152-060-4CDB**

USAF

Date Completed:		Well Type:	
Depth Drilled (ft):	130	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1520		

**152-060-4CDD**

NDSWC 5015

Date Completed:		Well Type:	
Depth Drilled (ft):	80	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1510		

**152-060-23DDD**

NDSWC 5010

Date Completed:		Well Type:	
Depth Drilled (ft):	80	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1515		

**152-060-26CCC**

NDSWC 5009

Date Completed:		Well Type:	
Depth Drilled (ft):	60	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1505		

**152-061-10CDC**

NDSWC 5355

Date Completed:	7/24/69	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1486		

**152-061-16ABB**

NDSWC 5356

Date Completed:	7/24/69	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1505		

**152-061-16CCC**

NDSWC 5007

Date Completed:	6/27/68	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1490		

**152-061-18BCA**

US Air Force

Date Completed:		Well Type:	
Depth Drilled (ft):	0	Source of Data:	Downey, 1971
Screened Interval (ft):	13	Principal Aquifer :	
L.S. Elevation (ft)			

**152-061-19BCC**

NDSWC 5359

Date Completed:	7/28/69	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1485		

**152-061-26AAD**

NDSWC 5441

Date Completed:	9/2/69	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1440		

**152-061-26CCC**

NDSWC 5436

Date Completed:	8/28/69	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1440		

**152-061-26CDD**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	25	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1426		

**152-061-27ADB1**

NDSWC 5438

Date Completed:	8/28/69	Well Type:	
Depth Drilled (ft):	220	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1442		

**152-061-27ADB2**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	30	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1440		

**152-061-27ADC**

NDSWC 5439

Date Completed:	8/29/69	Well Type:	
Depth Drilled (ft):	240	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1440		

**152-061-27DAB**

NDSWC 5437

Date Completed:	8/28/69	Well Type:	
Depth Drilled (ft):	280	Source of Data:	Downey, 1971
Screened Interval (ft):	247-253	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1435		

**152-061-27DAC**

NDSWC 5440

Date Completed:	8/29/69	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Downey, 1971
Screened Interval (ft):	87-90	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1443		

**152-061-27DCD**

NDSWC 5354

Date Completed:	7/24/69	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Downey, 1971
Screened Interval (ft):	97-100	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1460		

**152-061-29AAA**

NDSWC 5357

Date Completed:	7/24/69	Well Type:	
Depth Drilled (ft):	280	Source of Data:	Downey, 1971
Screened Interval (ft):	177-180	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1456		

**152-061-29AAD**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	49	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)			

**152-061-30BBB**

NDSWC 5358

Date Completed:	7/24/69	Well Type:	
Depth Drilled (ft):	220	Source of Data:	Downey, 1971
Screened Interval (ft):	177-180	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1460		

**152-061-30BCC**

NDSWC 5360

Date Completed:	7/28/69	Well Type:	
Depth Drilled (ft):	40	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1484		

**152-061-33BCC**

NDSWC 5006

Date Completed:	6/26/68	Well Type:	
Depth Drilled (ft):	200	Source of Data:	Downey, 1971
Screened Interval (ft):	147-150	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1508		

**152-061-35ABB**

NDSWC 5435

Date Completed:	8/28/69	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Downey, 1971
Screened Interval (ft):	57-60	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1427		

**152-061-35BAA**

NDSWC 5353

Date Completed:	7/24/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	220	Source of Data:	Downey, 1971
Screened Interval (ft):	157-163	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1427		

**152-061-35BAA2**

NDSWC 5353A

Date Completed:	8/6/69	Well Type:	4 inch PVC
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):	178-182	Principal Aquifer :	McVille Aquifer
L.S. Elevation (ft)	1427		

**Lithologic Log**

Unit	Description	Depth (ft)
see log for 35BAA		

**152-061-36AAA**

NDSWC 5008

Date Completed:	6/27/68	Well Type:	
Depth Drilled (ft):	20	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1470		

**152-061-36BAA**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	10	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1440		

**152-061-36BBB**

NDGS

Date Completed:		Well Type:	
Depth Drilled (ft):	25	Source of Data:	Downey, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1424		

**152-062-07ACA1**

NDSWC 8853

Date Completed:	8/21/73	Well Type:	1.25 inch abs
Depth Drilled (ft):	300	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	197-203	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1493.3		

**152-062-07ACA2**

NDSWC 8853A

Date Completed:	8/21/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	57-60	Principal Aquifer :	Spiritwood ?
L.S. Elevation (ft)	1494		

**152-062-12DAD**

USAF103

Date Completed:	1/1/62	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-130	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1492		

**152-062-15BAB**

NDSWC 8810

Date Completed:	8/7/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1480		

**152-062-21DBD**

NDSWC 8854

Date Completed:	8/22/73	Well Type:	1.25 inch abs
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	124-130	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1444.6		

**152-062-27AAA**

NDSWC 8859

Date Completed:	8/24/73	Well Type:	1.25 inch abs
Depth Drilled (ft):	200	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	138-143	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1450.3		

**152-062-28DBD**

NDSWC 8855

Date Completed:	8/22/73	Well Type:	1.25 inch abs
Depth Drilled (ft):	240	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	137-143	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1444.8		

**152-062-33CDA1**

NDSWC 12041A

Date Completed:	9/17/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	61	Source of Data:	
Screened Interval (ft):	318-323	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1486.8		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, very sandy, silty with pebbles, slightly cohesive, oxidized till	1-18
TILL	oxidized/unoxidized transition zone	18-22
CLAY	olive gray, silty, sandy with pebbles unweathered till	22-32
SAND	gravelly, mostly coarse to very coarse shale sand, well rounded to subrounded	32-42
CLAY	olive gray, very silty, lignites in clay	42-61

**152-062-33CDA2**

NDSWC 12041B

Date Completed:	9/18/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	87	Source of Data:	
Screened Interval (ft):	45-50	Principal Aquifer :	Clay Sediments
L.S. Elevation (ft)	1486.8		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, silty, sandy with pebbles, oxidized till	1-21
CLAY	olive gray, till as above	21-36
GRAVEL	sandy, rocky, very fine sand to pea gravel mostly shale	36-44
CLAY	olive gray, very silty, lignite layers	44-51
CLAY	as above, layered with very fine sand	51-77
CLAY	olive gray, very silty, broke bit off at 87 feet, left hole for night, next day, raining heavily, completed well as deep as we could	77-87

**152-062-33CDA3**

NDSWC 12041C

Date Completed:	9/21/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	180	Source of Data:	
Screened Interval (ft):	168-173	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1487.1		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained silty, very sandy with numerous pebbles, oxidized till	1-31
CLAY	olive gray, silty sandy with numerous pebbles, rocky, interbedded with sand and gravel, oxidized	31-37
GRAVEL	80 % shale, well rounded to subrounded, pea gravel to fine sand	37-41
CLAY	olive gray, very silty, interbedded with fine sand	41-46
SILT	olive gray, clayey, drills smooth and fast, at 76 feet picking up lignite layers and black lignitic clays	46-90
CLAY	olive gray, greasy, slightly silty, drills slower than above	90-151
SAND	silty, very fine to medium, drills fast	151-157
CLAY	olive gray, silty, drills smooth	157-161
GRAVEL	sandy, coarse to very coarse sand with pea to marble size gravel, well rounded to subrounded, chatters when drilling, taking a little water	161-180

**152-062-33CDA4**

NDSWC 12041D

Date Completed:	9/21/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	
Screened Interval (ft):	133-138	Principal Aquifer :	Clay Sediments
L.S. Elevation (ft)	1487.2		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized till	1-31
CLAY	unoxidized till, olive gray	31-35
SAND	very fine to menium	35-38
CLAY	olive gray, till	38-40
GRAVEL	coarse, sandy, poor return	40-43
CLAY	olive gray, silty	43-44
GRAVEL	coarse, sandy, poor return, drills choppy	44-47
SILT	clayey, poor return, drills smooth	47-84
CLAY	olive gray, silty, crumbles, drills smooth	84-140

**152-062-33CDA5**

NDSWC 12041E

Date Completed:	9/22/87	Well Type:	2 inch PVC
Depth Drilled (ft):	35	Source of Data:	
Screened Interval (ft):	18-23	Principal Aquifer :	Till
L.S. Elevation (ft)	1487		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, silty, sandy with pebbles, oxidized till	1-33
CLAY	olive gray, very silty, no pebbles	33-35

**152-062-33DCB**

NDSWC 8856

Date Completed:	8/22/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	380	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	200-203	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1484.6		

**152-063-03ABA**

NDSWC 8850

Date Completed:	8/20/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	140-143	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1461		

**152-063-10DAC**

NDSWC 5047

Date Completed:	7/18/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	240	Source of Data:	Randich, 1971
Screened Interval (ft):	170-174	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1443.6		

**152-063-12BAB**

NDSWC 8851

Date Completed:	8/22/73	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1440		

**152-063-13ABD**

NDSWC 8852

Date Completed:	8/21/73	Well Type:	1.25 inch abs
Depth Drilled (ft):	360	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	297-303	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1472.2		

**152-063-13ACB1**

NDSWC 12040A

Date Completed:	9/9/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	256	Source of Data:	
Screened Interval (ft):	248-253	Principal Aquifer :	Till
L.S. Elevation (ft)	1461.1		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	silty, sandy, yellowish to reddish brown, pebbly, interbedded with sands and gravels at 4 to 5 feet, oxidized till, from 22 to 31 feet, oxidized till mixed with gray till	1-31
CLAY	olive gray, silty, sandy with pebbles, poorly sorted, unweathered till, rocky and bouldery, rock at 247 feet, twisted off sub and drill bit, gravel layers from 225 to 228, 235 to 238, and 241 to 245 feet	31-256

**152-063-13ACB2**

NDSWC 12040B

Date Completed:	9/10/87	Well Type:	2 inch PVC
Depth Drilled (ft):	75	Source of Data:	
Screened Interval (ft):	62-67	Principal Aquifer :	Till
L.S. Elevation (ft)	1461.6		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, iron stained, oxidized till	1-22
CLAY	transition zone between oxidized and unoxidized till	22-31
CLAY	olive gray, silty, sandy, with pebbles, poorly sorted, unweathered till, at 75 feet transmission went out on drill rig, installed well to depth of hole	31-75

**152-063-13ACB3**

NDSWC 12040C

Date Completed:	9/16/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	320	Source of Data:	
Screened Interval (ft):	308-313	Principal Aquifer :	Till
L.S. Elevation (ft)	1462.2		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till, gravel layer from 16 to 20, transition zone between oxidized and unoxidized till from 25 to 33 feet	1-33
CLAY	olive gray, silty, sandy with pebbles, poorly sorted, rocky till, drills slow, a few interbeds of gravel	33-283
GRAVEL	rocky, poor return, rough drilling	283-288
CLAY	till as above, layered with shale of the Pierre formation	288-320

**152-063-13ACB4**

NDSWC 12040D

Date Completed:	9/16/87	Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	15-25	Principal Aquifer :	Till
L.S. Elevation (ft)	1462.7		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, poorly sorted, iron stained, oxidized till, some rocks	1-25

**152-063-18CCC**

NDSWC 11903

Date Completed:	9/29/86	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	33-38	Principal Aquifer :	Lake Clay
L.S. Elevation (ft)	1456.4		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, to light gray, very silty, oxidized lake clays	1-6
CLAY	yellowish brown, silty, sandy with pebbles, iron stained, oxidized till	6-28
CLAY	mixture of oxidized and unoxidized, silty	28-33
CLAY	olive gray, silty, unoxidized lake clays, less silty from 38 to 40 feet	33-40

**152-063-19ADA**

NDSWC 5470

Date Completed:	9/12/69	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1420		

**152-063-32CCC**

NDSWC 5048

Date Completed:	7/18/68	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1452		

**152-064-02CBB**

NDSWC 5471

Date Completed:	9/16/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	160	Source of Data:	Randich, 1971
Screened Interval (ft):	107-113	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1438.1		

**152-064-07BCA**

NDSWC 5058

Date Completed:	7/24/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	160	Source of Data:	Randich, 1971
Screened Interval (ft):	117-120	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1432.1		

**152-064-07CDD**

NDSWC 11896

Date Completed:	9/25/86	Well Type:	2 inch PVC
Depth Drilled (ft):	30	Source of Data:	
Screened Interval (ft):	23-28	Principal Aquifer :	Till
L.S. Elevation (ft)	1442.2		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL	road fill	0-1
CLAY	yellowish brown to whitish gray, oxidized, silty, sandy, with pebbles, (till), 21 to 23 feet, transition zone between oxidized and unoxidized	1-23
CLAY	olive gray, silty, sandy with pebbles, poorly sorted, till	23-30

**152-064-08BAB**

NDSWC 11897

Date Completed:	9/25/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	13-18	Principal Aquifer :	Till
L.S. Elevation (ft)	1430.4		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, till	1-6
SAND	gravelly, oxidized, fine sand to pea size gravel	6-13
CLAY	olive gray, silty, sandy with pebbles, poorly sorted, unoxidized till	13-20

**152-064-08BDA**

NDSWC 11898

Date Completed:	9/25/86	Well Type:	2 inch PVC
Depth Drilled (ft):	68	Source of Data:	
Screened Interval (ft):	57.5-62.5	Principal Aquifer :	Sand Sediments
L.S. Elevation (ft)	1438		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, iron stained, oxidized till, lignite fragements in till	1-20
GRAVEL	sandy, iron stained, oxidized, medium to very coarse sand with pea to marble size gravel, well rounded to subrounded, taking water	20-55
SAND	very fine to fine, silty, unoxidized, well rounded to subrounded, fair sorting	55-68

**152-064-08BDD**

NDSWC 11899

Date Completed:	9/26/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	7-17	Principal Aquifer :	Sand Sediments
L.S. Elevation (ft)	1420.2		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till	1-7
SAND	gravelly, iron stained, well rounded to subrounded, coarse sand to marble size gravel, drills fast, taking water, sand is 70 % shale, 20 % carbonates, and 10 % quartz and igneous	7-20

**152-064-16DDD**

NDSWC 11904

Date Completed:	9/29/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	13-18	Principal Aquifer :	Lake Clay
L.S. Elevation (ft)	1493.7		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, oxidized	1-6
GRAVEL	sandy, oxidized, mostly shale	6-8
CLAY	yellowish brown, silty, oxidized	8-11
CLAY	olive gray, minor silt, plastic, lake clays, unoxidized	11-20

**152-064-17BDD**

NDSWC 11900

Date Completed:	9/26/86	Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	18-23	Principal Aquifer :	Till
L.S. Elevation (ft)	1460.4		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
GRAVEL	sandy oxidized, shale, coarse sand to medium gravel	2-6
CLAY	yellowish brown, iron stained, oxidized, silty, sandy with pebbles, till	6-15
CLAY	olive gray, silty, very sandy with pebbles, unoxidized, poorly sorted till	15-25

**152-064-19ABC**

NDSWC 11905

Date Completed:	9/29/86	Well Type:	2 inch PVC
Depth Drilled (ft):	120	Source of Data:	
Screened Interval (ft):	110-115	Principal Aquifer :	Gravel Sediments
L.S. Elevation (ft)	1600		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, poorly sorted oxidized till	1-22
CLAY	yellowish brown, very silty, crumbles, oxidized	22-25
GRAVEL	sandy, oxidized	25-28
CLAY	yellowish brown, oxidized, silty, sandy with pebbles, till interbedded with stringers of sand and gravel	28-45
GRAVEL	sandy, oxidized, well rounded to subrounded, taking water	45-50
CLAY	yellowish brown, oxidized	50-60
TILL	interbedded with stringers of sand and gravel, oxidized	60-76
SAND	gravel, iron stained, oxidized, well rounded to subrounded, 80% shales, 10 % carbonates, taking water, drills fast	76-100
SAND & GRAVEL	as above, unoxidized	100-120

**152-064-22AAA**

NDSWC 11880

Date Completed:	9/23/86	Well Type:	2 inch PVC
Depth Drilled (ft):	50	Source of Data:	
Screened Interval (ft):	43-48	Principal Aquifer :	Till
L.S. Elevation (ft)	1479.7		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SILT	very clayey, yellowish brown, iron stained, oxidized	1-7
CLAY	yellowish brown, silty, sandy with pebbles, poorly sorted, till	7-28
SAND	gravelly, oxidized, poor return	28-32
CLAY	yellowish brown, silty, sandy with pebbles, till	32-43
CLAY	transition zone between oxidized and unoxidized till	43-45
CLAY	olive gray, silty, sandy with pebbles, poorly sorted till	45-50

**152-064-26CBC**

NDSWC 11882

Date Completed:	9/23/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	13-18	Principal Aquifer :	Lake Clay
L.S. Elevation (ft)	1447.5		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, occasional pebble	1-8
CLAY	very silty, yellowish brown, oxidized	8-15
CLAY	very silty, olive gray, some very fine sand, no pebbles	15-20

**152-064-27BAA**

NDSWC 11881

Date Completed:	9/23/86	Well Type:	2 inch PVC
Depth Drilled (ft):	15	Source of Data:	
Screened Interval (ft):	8-13	Principal Aquifer :	Till
L.S. Elevation (ft)	1440.7		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty sandy with pebbles, till	1-8
CLAY	olive gray, silty, sandy with pebbles, till	8-15

**152-064-27BBB**

NDSWC 2878

Date Completed:		Well Type:	
Depth Drilled (ft):	0	Source of Data:	Randich, 1971
Screened Interval (ft):	57-60	Principal Aquifer :	Warwick Aquifer
L.S. Elevation (ft)	1452.8		

**152-064-35DBB**

NDSWC 11883

Date Completed:	9/24/86	Well Type:	2 inch PVC
Depth Drilled (ft):	15	Source of Data:	
Screened Interval (ft):	8-13	Principal Aquifer :	Till
L.S. Elevation (ft)	1442.1		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	whitish gray, yellowish brown streaks, silty sandy with pebbles, till	1-5
CLAY	till as above, yellowish brown	5-10
CLAY	olive gray, silty, sandy, with pebbles, unoxidized till	10-15

**152-065-06AAA1**

NDSWC 12031A

Date Completed:	9/1/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):	78-83	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1442.6		

**Lithologic Log**

Unit	Description	Depth (ft)
CLAY	yellowish brown, silty sandy with pebbles, oxidized till	1-16
GRAVEL	olive gray, silty, sandy with pebbles, poorly sorted till	16-55
GRAVEL	sandy, 40 % shale, 30 % quartz, remainder carbonates, well rounded to subrounded, drills fast, taking water, medium sand to pea gravel	55-92
CLAY	very silty, very fine sand, olive gray	92-109
CLAY	olive gray, silty, sandy with pebbles, till	109-132
CLAY	silty, olive gray, drills smooth	132-166
CLAY	olive gray to black, abundant till	166-171
SHALE	black angular, drill choppy (Pierre formation)	171-200

**152-065-06AAA2**

NDSWC 12031B

Date Completed:	9/1/87	Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	16-21	Principal Aquifer :	Till
L.S. Elevation (ft)	1443.1		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	silty, sandy, pebbles, iron stained, oxidized till, occational sand layer	1-16
CLAY	olive gray, silty, very sandy, unoxidized till	16-25

**152-065-07AAA1**

NDSWC 12030A

Date Completed:	9/1/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	160	Source of Data:	
Screened Interval (ft):	98-103	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1453		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty sandy with pebbles, iron stained, oxidized till	1-12
SAND	very fine to medium, oxidized some gravel	12-38
SAND	fine to very coarse sand, unoxidized, well rounded to subrounded, drill clean	38-42
CLAY	very silty with very fine sand, drills clean, olive gray	42-64
SAND	very fine to fine, unoxidized, well rounded, good sorting, drills clean	64-108
CLAY	olive gray, silty, very fine sand, some shale pebbles, till	108-114
CLAY	black, silty, sandy with abundant Pierre shale fragments, drills as if interbedded with till and shale	114-138
SHALE	black, brittle, drills slow, Pierre	138-160

**152-065-07AAA2**

NDSWC 12030B

Date Completed:	9/1/87	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	33-38	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1453		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized, iron stained, silty, very sandy with pebbles, oxidized till	2-13
SAND	very fine to fine, oxidized	13-32
SAND	as above, unoxidized	32-40

**152-065-07 BBB**

NDSWC 5686

Date Completed:	6/2/70	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	0		

**152-065-07 CCC**

NDSWC 5056

Date Completed:	7/23/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	240	Source of Data:	Randich, 1971
Screened Interval (ft):	127-130	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1495.5		

**152-065-11 CAB**

NDSWC 11910

Date Completed:	9/30/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	13-18	Principal Aquifer :	Till
L.S. Elevation (ft)	1449.7		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown to light gray, silty, very sandy with pebbles, oxidized till, rocky	1-12
CLAY	olive gray, silty, very sandy, with pebbles, rocky, unoxidized till	12-20

**152-065-11CAC**

NDSWC 11909

Date Completed:	9/30/86	Well Type:	2 inch PVC
Depth Drilled (ft):	30	Source of Data:	
Screened Interval (ft):	23-28	Principal Aquifer :	Till
L.S. Elevation (ft)	1519.1		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, some light gray, silty, sandy, rocky, with pebbles, oxidized till	1-24
CLAY	olive gray, silty, very sandy, with pebbles, unoxidized till	24-30

**152-065-13CAC**

NDSWC 5472

Date Completed:	9/16/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	180	Source of Data:	Randich, 1971
Screened Interval (ft):	137-143	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1530		

## Lithologic Log

Unit	Description	Depth (ft)
see Randich, 1971 for log		

**152-065-14BBA**

NDSWC 5057

Date Completed:	7/23/68	Well Type:	
Depth Drilled (ft):	342	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1735		

**152-065-14BBA1**

NDSWC 11901

Date Completed:	9/26/86	Well Type:	1.25 inch PVC
Depth Drilled (ft):	120	Source of Data:	
Screened Interval (ft):	111.5-116.5	Principal Aquifer :	
L.S. Elevation (ft)	1735		

**Lithologic Log**

Unit	Description	Depth (ft)
see log for 14BBA2		

**152-065-14BBA2**

NDSWC 11915

Date Completed:	10/1/86	Well Type:	1.25 inch PVC
Depth Drilled (ft):	220	Source of Data:	
Screened Interval (ft):	205.5-210.5	Principal Aquifer :	Clay Sediments
L.S. Elevation (ft)	1733		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, very sandy with pebbles, iron stained, poorly sorted, rocky, till	1-15
GRAVEL	sandy, iron stained, oxidized, medium to very coarse sand, shale gravel (1 inch across), well rounded to subrounded, 80 % to 90 % shale, remainder carbonates and silicates, interbedded with olive gray tills	15-118
GRAVEL	as above, unoxidized, interbedded with layers of olive gray clay	118-160
CLAY	dark yellowish brown, silty, sandy with pebbles, iron stained pebbles, weathered lignites, oxidized till	160-168
CLAY	dark yellowish brown, silty, very sandy, with iron stained pebbles, weathered lignites, oxidized till with stringers of sand, gravel and rocks	168-197
CLAY	olive gray, interbedded with sand and gravel, unoxidized	197-205
CLAY	dark gray to black, sticky, some dark black shales, drills real smooth with occasional choppy drilling, either interbedded with gravels or hard shale (unoxidized)	205-220

**152-065-17BAA**

NDSWC 11906

Date Completed:	9/30/86	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	33-38	Principal Aquifer :	Sand Sediments
L.S. Elevation (ft)	1469.9		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, very silty with very fine to fine sand, oxidized	1-22
SAND	oxidized, very fine to fine, 10 % coarse, well rounded to subrounded, good sorting, taking water	22-34
SAND	unoxidized, very fine to medium, fair sorting, drills clean, 75 % shale, remainder silicates and carbonates	34-40

**152-065-17BBB1**

NDSWC 12029A

Date Completed:	9/1/87	Well Type:	
Depth Drilled (ft):	180	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1455		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-3
CLAY	yellowish brown, iron stained, oxidized, very silty, with very fine sand, very few shale pebbles, oxidized till	3-27
GRAVEL	shale, iron stained, oxidized sandy	27-32
GRAVEL	90 % shale, well rounded to subrounded, remainder carbonates and igneous, washing out	41-85
CLAY	olive gray, some very silty, sandy, drills as if interbedded with sand	85-117
SHALE	angular, brittle, black, Pierre Shale	117-121
CLAY	blackish, hard to drill interbedded with shale, Bedrock, Pierre Shale	121-180

**152-065-17BBB2**

NDSWC 12029B

Date Completed:	9/1/90	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	32-37	Principal Aquifer :	Gravel Sediments
L.S. Elevation (ft)	1460.8		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	oxidized till, silty, sandy with pebbles	1-27
GRAVEL	oxidized, mostly shale	27-32
GRAVEL	shale, well rounded to subrounded, washing out	32-37
CLAY	olive gray, silty sandy with pebbles, till	37-40

**152-065-19BBB**

NDSWC 5685

Date Completed:	6/2/70	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1595		

**152-065-20BCC**

NDSWC 11907

Date Completed:	9/30/86	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	33-38	Principal Aquifer :	Gravel Sediments
L.S. Elevation (ft)	1554.6		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	light gray, oxidized, silty sandy with pebbles, poorly sorted, stringers of sand and gravel, till	1-6
CLAY	till as above, yellowish brown, oxidized	6-8
GRAVEL	sandy oxidized, mostly shale	8-12
CLAY	yellowish brown, very silty, very sandy	12-15
GRAVEL	sandy, oxidized, medium sand to 1 inch gravels, taking water	15-26
GRAVEL	sandy, mixed with olive gray till, medium sand to 1 inch gravel, well rounded to subrounded, 80 % shale, 10 % carbonates, 10 % silicates, not taking much water	26-40

**152-065-22DDD**

NDSWC 11895

Date Completed:	9/25/86	Well Type:	2 inch PVC
Depth Drilled (ft):	120	Source of Data:	
Screened Interval (ft):	113-118	Principal Aquifer :	Lake Clay
L.S. Elevation (ft)	1636.7		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
GRAVEL	sandy, oxidized, medium to coarse to very coarse sand, pea to marble size gravel, some 1 to 2 inches across, well rounded to subrounded, taking water, occasional interbed of oxidized till	1-23
SAND	oxidized, very fine to fine, mixed with interbeds of very silty oxidized clay	23-76
SAND	oxidized, very fine to fine, silty	76-109
CLAY	olive gray, very silty with very fine to fine sand	109-120

**152-065-25CCC**

NDSWC 2879

Date Completed:	10/23/67	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1620		

**152-065-27DDD**

NDSWC 11951

Date Completed:	11/4/86	Well Type:	2 inch PVC
Depth Drilled (ft):	60	Source of Data:	
Screened Interval (ft):	36.5-41.5	Principal Aquifer :	Tokio Aquifer
L.S. Elevation (ft)	1567.2		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
GRAVEL	sandy, oxidized, coarse sand to 1 inch gravels, well rounded to subrounded, 70 % shale, 20 % carbonates, 10 % silicates, taking water, drills fast and choppy	1-54
CLAY	olive gray, silty, drills smooth	54-60

**152-065-32AAA**

NDSWC 5476

Date Completed:	9/17/69	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	Tokio Aquifer
L.S. Elevation (ft)	1550		

**152-066-07BBB**

NDSWC 11892

Date Completed:	9/25/86	Well Type:	2 inch PVC
Depth Drilled (ft):	55	Source of Data:	
Screened Interval (ft):	48-53	Principal Aquifer :	Till
L.S. Elevation (ft)	1485.4		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, plastic, cohesive, drills smooth, oxidized, some very fine sand	1-23
SAND	very fine to fine, silty oxidized	23-44
CLAY	olive gray, silty, sandy with pebbles and gravel, till	44-55

**152-066-21AAD**

NDSWC 2869

Date Completed:	10/14/67	Well Type:	1.25 inch abs
Depth Drilled (ft):	240	Source of Data:	Randich, 1971
Screened Interval (ft):	140-145	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1484.8		

**152-066-21AAD2**

NDSWC 11893

Date Completed:	9/25/86	Well Type:	2 inch PVC
Depth Drilled (ft):	68	Source of Data:	
Screened Interval (ft):	58-63	Principal Aquifer :	Till
L.S. Elevation (ft)	1484.4		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-2
SAND	oxidized, very fine to fine	2-3
SAND	oxidized, 10 % gravel, medium to very coarse sand with pea to marble size gravel, well rounded to subrounded, taking water, mostly shale	3-54
SAND	and gravel, as above, unoxidized, rather difficult to determine transition from oxidized to unoxidized	54-67
CLAY	olive gray, silty, sandy, with pebbles, till	67-68

**152-066-24CAB**

NDSWC 5481

Date Completed:	9/18/69	Well Type:	1.25 inch abs
Depth Drilled (ft):	180	Source of Data:	Randich, 1971
Screened Interval (ft):	97-103	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1582.24		

**152-066-24CDC**

NDSWC 5480

Date Completed:	9/18/69	Well Type:	
Depth Drilled (ft):	27	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1595		

**152-066-27DDD**

NDSWC 11894

Date Completed:	9/25/86	Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	18-23	Principal Aquifer :	Till
L.S. Elevation (ft)	1543.4		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty sandy with pebbles,	1-16
CLAY	olive gray, silty, sandy with pebbles, rocky poorly sorted, till	16-25

**152-066-27DDD1**

NDSWC 5055

Date Completed:	7/22/68	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1548		

**152-067-12CCC**

NDSWC 11860

Date Completed:	9/11/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	15-20	Principal Aquifer :	Till
L.S. Elevation (ft)	1511.5		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized	1-3
CLAY	yellowish brown, oxidized, silty, sandy with pebbles, till	3-14
CLAY	olive gray, silty, sandy with pebbles, some gravel, unoxidized till	14-20

**152-067-13DCC**

USGS 23

Date Completed:	7/27/46	Well Type:	
Depth Drilled (ft):	90	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1515		

**152-067-14CCB**

NDSWC 11859

Date Completed:	9/10/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	10-15	Principal Aquifer :	Till
L.S. Elevation (ft)	1561.1		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty sandy with pebbles, iron stained, oxidized till	1-12
CLAY	olive gray, till as above, unoxidized, very sandy	12-20

**152-067-18ABB**

NDSWC 5061

Date Completed:	7/24/68	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1484		

**152-067-19CCB**

BOR

Date Completed:	1/1/55	Well Type:	
Depth Drilled (ft):	25	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1560		

**152-067-29CCB**

USBOR

Date Completed:	1/1/55	Well Type:	
Depth Drilled (ft):	25	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1560		

**152-067-29CDD**

USGS 21

Date Completed:	7/25/46	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1557		

**152-067-31CCC**

NDGS

Date Completed:	1/1/67	Well Type:	
Depth Drilled (ft):	29	Source of Data:	Randich, 1971
Screened Interval (ft):	22-24	Principal Aquifer :	Maddock Aquifer
L.S. Elevation (ft)	1534.9		

**152-067-32ABA**

USGS 22

Date Completed:	7/26/45	Well Type:	
Depth Drilled (ft):	24	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1580		

**152-068-13AAA**

NDSWC 5060

Date Completed:	7/24/68	Well Type:	
Depth Drilled (ft):	67	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1543		

**152-068-19BBB**

NDSWC 5497

Date Completed:	9/24/69	Well Type:	
Depth Drilled (ft):	200	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1620		

**152-068-21DDD**

USBR

Date Completed:	8/1/55	Well Type:	
Depth Drilled (ft):	0	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1564		

**152-068-23CCC**

USBR

Date Completed:	8/1/55	Well Type:	
Depth Drilled (ft):	25	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1570		

**152-068-25CDD**

USGS

Date Completed:	1/1/46	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1540		

**152-068-27CDD**

USGS 16

Date Completed:	7/24/46	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1545		

**152-068-27DCC**

USGS 17

Date Completed:	7/20/46	Well Type:	
Depth Drilled (ft):	61	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1543		

**152-068-27DDC**

USGS 18

Date Completed:	7/20/46	Well Type:	
Depth Drilled (ft):	105	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1552		

**152-068-28BCB**

USBR

Date Completed:	1/1/55	Well Type:	
Depth Drilled (ft):	25	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1570		

**152-068-29AAA**

NDSWC 5498

Date Completed:	9/24/69	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1575		

**152-068-29BBC**

USBR

Date Completed:	8/1/55	Well Type:	
Depth Drilled (ft):	25	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1575		

**152-068-30CCB**

NDSWC 5064

Date Completed:	7/25/68	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1574		

**152-068-35BBC**

USGS 19

Date Completed:	7/24/46	Well Type:	
Depth Drilled (ft):	61	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1550		

**153-061-03BBB**

NDSWC 8806

Date Completed:	8/6/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1512		

**153-061-08CCC**

NDSWC 8807

Date Completed:	8/6/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1500		

**153-061-14CAC**

USAF

Date Completed:	1/1/62	Well Type:	4 inch
Depth Drilled (ft):	175	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-175	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1520		

**153-061-25DCB**

USAF31

Date Completed:	1/1/62	Well Type:	4 inch
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-130	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1553		

**153-061-31DAA**

NDSWC 8809

Date Completed:	8/6/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1509		

**153-061-34AAA**

NDSWC 8808

Date Completed:	8/6/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1510		

**153-062-06AAC**

USAF

Date Completed:	1/1/62	Well Type:	4 inch
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-130	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1495		

**153-062-07CCCB1**

CP-2A

Date Completed:	8/7/86	Well Type:	4 unch
Depth Drilled (ft):	0	Source of Data:	Hickok, 1986
Screened Interval (ft):	15.5-20.5	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1472.78		

**153-062-07CCCB2**

CP-2B

Date Completed:	8/7/86	Well Type:	4 inch
Depth Drilled (ft):	0	Source of Data:	Hickok, 1986
Screened Interval (ft):	30-35	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1472.51		

**153-062-14BBB**

NDSWC 8812

Date Completed:	8/7/73	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1497		

**153-062-16CBB**

Crary, city of

Date Completed:		Well Type:	
Depth Drilled (ft):		Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)			

**Lithologic Log**

Unit	Description	Depth (ft)
no log		

**153-062-17AAD**

NDSWC 8813

Date Completed:	8/7/73	Well Type:	
Depth Drilled (ft):	200	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1482		

**153-062-17DAC**

Crary

Date Completed:	1/1/37	Well Type:	
Depth Drilled (ft):	40	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1483		

**153-062-18AAB**

NDSWC 9098

Date Completed:	9/11/74	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1478		

**153-062-18DDD**

NDSWC CP-4A

Date Completed:	7/22/86	Well Type:	4 inch
Depth Drilled (ft):	25	Source of Data:	Hickok, 1986
Screened Interval (ft):	20-25	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1470.74		

**153-062-19CCD1**

CP-1A

Date Completed:	7/23/86	Well Type:	4 inch
Depth Drilled (ft):	16.8	Source of Data:	Hickok, 1986
Screened Interval (ft):	11.8-16.8	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1458.33		

**153-062-19CCD2**

CP1B

Date Completed:	7/23/86	Well Type:	4 inch
Depth Drilled (ft):	34	Source of Data:	Hickok, 1986
Screened Interval (ft):	29-34	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1458.45		

**153-062-24AAD**

USAF

Date Completed:	1/1/62	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-130	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1501		

**153-062-26CBA**

USAF

Date Completed:	1/1/62	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1502		

**153-062-26CCC**

NDSWC 8811

Date Completed:	8/7/73	Well Type:	Hutchinson, 1977
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1488		

**153-062-29CCC**

NDSWC 9099

Date Completed:	9/11/74	Well Type:	1.25 inch abx
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	58-61	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1485.3		

**153-063-07CDC**

NDSWC 8846

Date Completed:	8/17/73	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1463		

**153-063-09CDD**

NDSWC 8845

Date Completed:	8/16/73	Well Type:	1.25 inch abx
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	97-103	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1472		

**153-063-09DDD1**

KP-1A

Date Completed:	8/7/86	Well Type:	4 inch
Depth Drilled (ft):	40	Source of Data:	Hickok, 1986
Screened Interval (ft):	35-40	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1461.07		

**153-063-09DDD2**

KB-1B

Date Completed:	8/7/86	Well Type:	4 inch
Depth Drilled (ft):	0	Source of Data:	Hickok, 1986
Screened Interval (ft):	35-40	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1458.44		

**153-063-11AAA2**

NDSWC 8844

Date Completed:	8/16/73	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1478		

**153-063-13BBB**

NDSWC 11879

Date Completed:	9/23/86	Well Type:	2 inch PVC
Depth Drilled (ft):	30	Source of Data:	
Screened Interval (ft):	23-28	Principal Aquifer :	Till
L.S. Elevation (ft)	1489.8		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1.5
SAND	and gravel, oxidized, well rounded to subrounded, iron stained	1.5-7
SILT	yellowish brown, oxidized	7-16
CLAY	yellowish brown, very silty, some pebbles, till	16-23
CLAY	olive gray, silty, sandy with shale pebbles, till	23-30

**153-063-13DDC**

CP-3A

Date Completed:	8/7/86	Well Type:	4 inch
Depth Drilled (ft):	20	Source of Data:	Hickok, 1986
Screened Interval (ft):	15-20	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1484.75		

**153-063-14CCC**

NDSWC 11878

Date Completed:	9/23/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	14-19	Principal Aquifer :	Till
L.S. Elevation (ft)	1484.3		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, iron stained, oxidized till	1-16
CLAY	olive gray, silty, sandy with pebbles, poorly sorted till	16-20

**153-063-21DDB**

USAF

Date Completed:	1/1/62	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1463		

**153-063-21DDD**

NDSWC 11877

Date Completed:	9/23/86	Well Type:	1.25 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	13-18	Principal Aquifer :	Till
L.S. Elevation (ft)	1456.1		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized, iron stained, silty, sandy with pebbles, till	1-13
CLAY	olive gray, silty, sandy with pebbles, till	13-20

**153-063-22DDD**

NDSWC 8849

Date Completed:	8/20/73	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1492		

**153-063-29ADD**

NDSWC 8847

Date Completed:	8/17/73	Well Type:	1.25 inch abs
Depth Drilled (ft):	200	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	137-143	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1448		

**153-063-30CBC**

NDSWC 5689

Date Completed:	6/3/70	Well Type:	1.25 inch abs
Depth Drilled (ft):	200	Source of Data:	Randich, 1971
Screened Interval (ft):	137-143	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1445.6		

**153-063-34BBC**

NDSWC 8848

Date Completed:	8/20/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	160-163	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1463		

**153-064-03BCB**

Devils Lake waste lagoon

Well Type:

Date Completed:	0	Source of Data:	
Depth Drilled (ft):		Principal Aquifer :	qw sample
Screened Interval (ft):			
L.S. Elevation (ft)	0		

**153-064-03BDD**

U. S. Bureau of Rec.

Well Type:

Date Completed:	1951	Source of Data:	substation well
Depth Drilled (ft):	48	Principal Aquifer :	Hutchinson, 1977
Screened Interval (ft):	48		Pierre Shale
L.S. Elevation (ft)	0		

**153-064-04ADD1**

NDGS #7

Date Completed:		Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	14.5-24.5	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1428.86		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	medium to light brown, shaly quartz	1-3
SHALE	Pierre, light brown to gray, iron stained	3-8
SHALE	dark gray, Pierre shale	8-25

**153-064-04ADD2**

NDGS #8

Date Completed:		Well Type:	2 inch PVC
Depth Drilled (ft):	8	Source of Data:	
Screened Interval (ft):	8-13	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1428.82		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	medium to light brown, shale and quartz grains	1-3
SHALE	light brown to gray, very few stains, along with fractures and gypsum	3-8

**153-064-04BAC**

Devils Lake waste water lagoon

Date Completed:		Well Type:	
Depth Drilled (ft):	0	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	qw sample
L.S. Elevation (ft)			

**153-064-04BBB**

NDSWC 11913

Date Completed:	9/30/86	Well Type:	2 inch PVC
Depth Drilled (ft):	30	Source of Data:	
Screened Interval (ft):	23-28	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1443.13		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	whitish gray, plastic, cohesive, drills smooth	1-6
CLAY	yellowish brown, oxidized, plastic, drills smooth	6-13
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till	13-23
SHALE	hard, black, mixed with olive gray to black clays, Pierre shale	23-30

**153-064-04CAA1**

NDGS #2

Date Completed:		Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	19.5-24.5	Principal Aquifer :	Sand Sediments
L.S. Elevation (ft)	1428.56		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown to gray, gypsum crystals, laminated	1-10
TILL	yellowish brown, gray, pebbles, sandy mottled	10-11
TILL	gray brown, not sandy	11-13
TILL	gray, reduced, very sandy, silt from 15 to 15.5 feet and sand from 16 to 16.3 feet	13-16.3
TILL	gray clayey	16.3-20
SAND	gray, fine	20-21
SILT	gray	21-23
TILL	gray with pebbles	23-23.2
SILT	gray with pebbles	23.2-25

**153-064-04CAA2**

NDGS #3

Date Completed:		Well Type:	2 inch PVC
Depth Drilled (ft):	13	Source of Data:	
Screened Interval (ft):	8-13	Principal Aquifer :	Till
L.S. Elevation (ft)	1428.54		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY		1-10
TILL		10-13

## 153-064-04CAA3

NDSWC 12075A

Date Completed:	5/24/88	Well Type:	2 inch PVC
Depth Drilled (ft):	80	Source of Data:	
Screened Interval (ft):	73-78	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1428.61		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, greasy, iron stained, oxidized, lake clays	1-9
CLAY	yellowish brown, silty with pebbles, interbedded with very fine sand and silt, till	9-12
CLAY	as above, olive gray till, interbedded with sand and gravel	12-32
CLAY	olive gray to black, greasy, lake clays mixed with bedrock shale	32-35
SHALE	black brittle, chatters when drilled	35-80

## 153-064-04CAA4

NDSWC 12075B

Date Completed:	5/24/88	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	34-39	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1428.68		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized lake clays	1-12
CLAY	yellowish brown, silty, sandy with pebbles, till	12-16
CLAY	olive gray, silty, sandy with pebbles, till	16-21
SAND	fine to coarse, mostly shale	21-27
CLAY	olive gray till as above	27-32
SHALE	black, brittle, chatters when drilled	32-40

**153-064-04DCC1**

NDGS #4

Date Completed:		Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	19-24	Principal Aquifer :	Silt Sediments
L.S. Elevation (ft)	1428.01		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	light brown to gray, laminated	1-13
SILT	gray reduced	13-14
TILL	gray with pebbles	14-15
SAND	gray, medium to fine grained, quartz, subangular to subrounded, coarse shale pebbles	15-15.5
SILT	gray, sandy, fining downward to 16 feet, then coarser	15.6-25

**153-064-04DCC2**

NDGS #5

Date Completed:	5/24/88	Well Type:	2 inch PVC
Depth Drilled (ft):	13	Source of Data:	
Screened Interval (ft):	8-13	Principal Aquifer :	Clay
L.S. Elevation (ft)	1428.05		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	light brown to gray, laminated, few stains, lake clays	1-12

**153-064-04DCC3**

NDSWC 12076A

Date Completed:	5/24/88	Well Type:	2 inch PVC
Depth Drilled (ft):	130	Source of Data:	
Screened Interval (ft):	120-125	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1428.03		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized, sticky, plastic, lake clays	1-12
CLAY	as above, olive gray	12-17
SAND	and gravel, mostly shale, well rounded to subrounded, very fine to coarse sand, mostly fine to medium, 10 % gravel	17-28
CLAY	olive gray, silty, sandy with pebbles, till	28-36
SHALE	black brittle, angular, drill choppy	36-45
CLAY	olive gray, gravel and rocks, till	45-69
GRAVEL	interbedded with till	69-81
SAND	well rounded to subrounded, very fine to coarse sand	81-87
GRAVEL	sandy, coarse sand to pea gravel, mostly shale, well rounded to subrounded, caving and taking water	87-107
SHALE	black, brittle, Pierre shale	107-108
CLAY	black, mostly shale, drills smooth and slow tight	108-120
SHALE	black, brittle, drills choppy as if fractured (Pierre shale)	120-125
CLAY	black, mostly, drills smooth and slow	125-130

**153-064-04DCC4**

NDSWC 12076B

Date Completed:	5/24/88	Well Type:	2 inch PVC
Depth Drilled (ft):	95	Source of Data:	
Screened Interval (ft):	80-85	Principal Aquifer :	Sand Sediments
L.S. Elevation (ft)	1428.08		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized and iron stained, lake clays	1-8
GRAVEL	oxidized, mostly shale	8-11
CLAY	olive gray , silty	11-16
SAND	and gravel, 80 shale	16-28
CLAY	olive gray, sticky, greasy	28-42
CLAY	olive gray till	42-82
SAND	and gravel, mostly shale, well rounded to subrounded	82-95

**153-064-05DAA**

Devils Lake waste water lagoon

Date Completed:		Well Type:
Depth Drilled (ft):		Source of Data:
Screened Interval (ft):		Principal Aquifer :      qw sample
L.S. Elevation (ft)	0	

**153-064-05DDA1**

NDSWC 12072A

Date Completed:	5/23/88	Well Type:	2 inch PVC
Depth Drilled (ft):	80	Source of Data:	
Screened Interval (ft):	73.2-78.2	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1437.17		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, oxidized, silty, sandy with pebbles, some lignites, till	1-11
GRAVEL	mostly shale	11-12
CLAY	oxidized till as above	12-16
CLAY	yellowish brown, very fine sand	18-20
CLAY	olive gray, very sandy (very fine)	20-23

**153-064-05DDA2**

NDSWC 12072B

Date Completed:	5/23/88	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	35-40	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1437.18		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty sandy with pebbles, iron stained, oxidized, till	1-18
SAND	very fine, clayey, yellowish brown, oxidized,	18-20
SAND	very fine, olive gray, clayey, silty, bedrock sand?	20-24
CLAY	olive gray, silty sandy with pebbles, till	24-26
CLAY	gray to black, lots of shale, very fine sand and silt, Bedrock	26-36
SHALE	gray to black with bedrock clays, Bedrock, Pierre shale	36-40

**153-064-05DDA3**

NDSWC 12072C

Date Completed:	5/23/88	Well Type:	2 inch PVC
Depth Drilled (ft):	10	Source of Data:	
Screened Interval (ft):	5-10	Principal Aquifer :	Till
L.S. Elevation (ft)	1437.28		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, silty, sandy with pebbles, till	1-10

**153-064-07BBB**

NDSWC 194

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	155	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1476		

**153-064-07DCA**

Devils Lake Municipal golf course

Date Completed:		Well Type:	irrigation
Depth Drilled (ft):		Source of Data:	no log submitted
Screened Interval (ft):		Principal Aquifer :	Spiritwood aquifer
L.S. Elevation (ft)			

**153-064-07DCD**

NDSWC 11873

Date Completed:	9/15/86	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	33-38	Principal Aquifer :	Till
L.S. Elevation (ft)	1456.56		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, oxidized, silty, sandy with pebbles, till	1-12
CLAY	yellowish brown, silty, oxidized	12-16
SAND	and gravel, iron stained, oxidized, some cobbles, well rounded to subrounded, taking water	16-20
CLAY	yellowish brown, sandy, occasional 1/2 to 1 foot stringer of very fine sand	20-31
CLAY	olive gray, very sandy, occasional pebble, till ?	31-40

**153-064-08ADA**

NDSWC 8868

Date Completed:	8/29/73	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1438		

**153-064-09ABD1**

NDSWC 12077A

Date Completed:	5/24/88	Well Type:	1.25 inch PVC
Depth Drilled (ft):	134	Source of Data:	
Screened Interval (ft):	125-130	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1443.41		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized, silty, very sandy with shale pebbles, till	1-16
SAND	fine to coarse, mostly shale	16-22
CLAY	silty, olive gray	22-24
SAND	very fine to fine, silty	24-34
CLAY	silty, sandy with pebbles, some rocks, till	34-78
GRAVEL	90 % shale, sandy, well rounded to subrounded	78-82
CLAY	olive gray, silty, very sandy till	82-84
GRAVEL	sandy, 80 % shale, well rounded to subrounded	84-91
SHALE	gray to black, fractured, angular cuttings, brittle, drills choppy, interbedded with gray, silty clays	91-103
CLAY	olive gray, rocky till as above	103-110
CLAY	silty, olive gray, drills smooth	110-121
SHALE	black, brittle, angular cuttings, drills slightly choppy, some bentonite clay mixed in	121-134

**153-064-09ABD2**

NDSWC 12077B

Date Completed:	5/26/88	Well Type:	2 inch PVC
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):	85-90	Principal Aquifer :	Gravel Sediments
L.S. Elevation (ft)	1443.43		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till	1-4
CLAY	yellowish brown, silty, plastic	4-9
SAND	very fine to fine, 80 % shale	9-11
CLAY	yellowish brown, silty, lake clays	11-16
CLAY	as above, more sandy	16-20
CLAY	olive gray, sandy	20-24
CLAY	as above, interbedded with very fine sand	24-31
CLAY	olive gray till	31-71
GRAVEL	sandy, 80 % shale	71-72
CLAY	olive gray till	72-74
GRAVEL	sandy, 80 % shale, 10 % carbonates, 10 % igneous, well rounded to subrounded, taking water, rocky	74-98
CLAY	till as above, rocky	98-100

**153-064-09ABD3**

NDSWC 12077C

Date Completed:	5/26/88	Well Type:	2 inch PVC
Depth Drilled (ft):	15	Source of Data:	
Screened Interval (ft):	10-15	Principal Aquifer :	Clay
L.S. Elevation (ft)	1443.39		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, very sandy with pebbles, oxidized till	1-7
SAND	oxidized	7-11
CLAY	silty, yellowish brown, oxidized	11-12
CLAY	olive gray, silty, sandy with pebbles, till	12-15

**153-064-09BAD1**

NDSWC 12073A

Date Completed:	5/24/88	Well Type:	2 inch PVC
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):	93-98	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1443.41		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	light gray, very sandy	1-3
CLAY	yellowish brown, oxidized, very fine sand in clay, lake clays	3-14
CLAY	olive gray, very fine sand, lake clays, more sandy at 17 feet	14-17
SAND	very fine, some clay, olive gray	17-25
CLAY	silty, sandy, olive gray, pebbles to rocks, till	25-42
SAND	fine to coarse, mostly shale, well rounded to subrounded	42-47
CLAY	olive gray, silty	47-54
SHALE	gray to black, brittle, drills choppy, shales are angular, occasional chunk of whitish gray sandstone/siltstone	54-100

**153-064-09BAD2**

NDSWC 12073B

Date Completed:	5/24/88	Well Type:	2 inch PVC
Depth Drilled (ft):	50	Source of Data:	
Screened Interval (ft):	43-48	Principal Aquifer :	Gravel Sediments
L.S. Elevation (ft)	1443.43		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	whitish gray, silty	1-3
CLAY	silty, very fine sand, yellowish brown, iron stained, Lake Clays	3-16
CLAY	olive gray, silty, sandy, Lake Clays	16-28
CLAY	olive gray, silty, sandy with pebbles, till, abundant gravel	28-42
GRAVEL	sandy, well rounded to subrounded, 60 % shale, drills choppy and fast	42-50

**153-064-09BAD3**

NDSWC 12073C

Date Completed:	5/24/88	Well Type:	2 inch PVC
Depth Drilled (ft):	15	Source of Data:	
Screened Interval (ft):	10-15	Principal Aquifer :	Clay
L.S. Elevation (ft)	1443.39		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, till	1-3
CLAY	very fine sand, silty, yellowish brown, oxidized lake clays	3-15

**153-064-09BBC1**

NDSWC 12074A

Date Completed:	5/24/88	Well Type:	2 inch PVC
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):	92-97	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1439.69		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, with very fine sand, oxidized lake clays	1-4
CLAY	yellowish brown, iron stained, silty sandy with pebbles, oxidized	4-19
CLAY	olive gray, silty, sandy with pebbles, poorly sorted, rocky, till	19-55
CLAY	olive gray very sandy	55-58
SHALE	gray to black, gravels, 50 % angular shale and 50 % well rounded to subrounded gravel, mostly shale gravels, some bentonite chunks	58-67
SHALE	black, brittle, angular, drills choppy, Pierre Shale	67-100

**153-064-09BBC2**

NDSWC 12074B

Date Completed:	5/24/88	Well Type:	2 inch PVC
Depth Drilled (ft):	67	Source of Data:	
Screened Interval (ft):	58-63	Principal Aquifer :	Sand Sediments
L.S. Elevation (ft)	1439.72		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized, iron stained, silty, Lake Clays	1-3
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till	3-20
CLAY	olive gray, silty, sandy with pebbles, 80 % shale	20-57
SAND	very fine to fine, some gravel, 80 % shale, well rounded to subrounded	57-67

**153-064-09BBC3**

NDSWC 12074C

Date Completed:	5/24/88	Well Type:	2 inch PVC
Depth Drilled (ft):	15	Source of Data:	
Screened Interval (ft):	10-15	Principal Aquifer :	Till
L.S. Elevation (ft)	1439.72		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized	1-4
CLAY	yellowish brown, silty, sandy with pebbles, till	4-15

**153-064-09DCA1**

NDSWC 12083A

Date Completed:	6/2/88	Well Type:	2 inch PVC
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):	85-95	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1443.67		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	whitish gray, greasy	1-5
CLAY	yellowish brown, silty, very sandy with pebbles, oxidized till	5-14
CLAY	olive gray, silty, sandy with pebbles, shale gravel from 21 to 23 feet and 29 to 31 feet, (till)	14-36
SHALE	black, brittle, interbedded with 1/2 foot stringers of shale gravel, some black clay, shale drills as if fractured	36-46
SHALE	as above, no sand and gravel	46-67
GRAVEL	mostly shale, poor return	67-69
SHALE	black brittle, fractured	69-100

**153-064-09DCA2**

NDSWC 12083B

Date Completed:	6/2/88	Well Type:	2 inch PVC
Depth Drilled (ft):	50	Source of Data:	
Screened Interval (ft):	38-48	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1443.64		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, oxidized	1-7
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till	7-24
CLAY	till as above, interbedded with sand and gravel	24-36
SHALE	black, brittle, drills as if fractured	36-50

**153-064-09DC&3**

NDSWC 12083C

Date Completed:	6/2/88	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	10-20	Principal Aquifer :	Till
L.S. Elevation (ft)	1443.62		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, greasy, plastic, cohesive, Lake Clays	1-6
CLAY	yellowish brown, silty, sandy with pebbles, rocky, oxidized till	6-20

**153-064-09DDA1**

NDSWC 12078A

Date Completed:	5/26/88	Well Type:	2 inch PVC
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):	93-98	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1438.97		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized lake clays	1-6
CLAY	yellowish brown, oxidized till	6-10
SAND	oxidized, 80 % shale	10-13
CLAY	oxidized till	13-14
GRAVEL	shale, oxidized, sandy	14-16
CLAY	oxidized till as above	16-19
CLAY	olive gray, silty sandy with pebbles, till	19-21
SHALE	black, brittle, drills as if fractured, minor interbeds of black, sandy clay and bentonite, Pierre Shale, bedrock	21-100

**153-064-09DDA2**

NDSWC 12078B

Date Completed:	5/26/88	Well Type:	2 inch PVC
Depth Drilled (ft):	27	Source of Data:	
Screened Interval (ft):	18-23	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1438.98		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, Lake Clays	1-6
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till	6-10
SAND	and gravel, oxidized	10-12
CLAY	poor return	12-17
SHALE	black, brittle, interbedded with black silty clays, Pierre shale, bedrock	17-27

**153-064-10BBC1**

NDSWC 11911

Date Completed:	9/30/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	8-18	Principal Aquifer :	Till
L.S. Elevation (ft)	1438.62		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	light gray, plastic, cohesive, Lake Clays	1-5
CLAY	yellowish brown, silty, plastic, Lake Clays	5-11
CLAY	olive grey, slightly silty, plastic, Lake Clays	11-12
SAND	oxidized, mostly shale, very fine to coarse sand, well rounded to subrounded	12-13
CLAY	olive gray, silty sandy very few pebbles, may be till	13-20

**153-064-10BBC2**

NDSWC 12082A

Date Completed:	6/2/88	Well Type:	2 inch PVC
Depth Drilled (ft):	70	Source of Data:	
Screened Interval (ft):	64-69	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1438.55		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, plastic, cohesive, Lake Clays	1-10
CLAY	as above, olive gray	10-12
CLAY	olive gray, silty, sandy with pebbles, till	12-62
SHALE	black, brittle, drills choppy, some greasy black clays, Pierre Shale, bedrock	62-70

**153-064-10DDD2**

NDSWC 8860

Date Completed:	8/28/73	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1442		

**153-064-12DDA**

NDSWC 11912

Date Completed:	9/30/86	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	33-38	Principal Aquifer :	Till
L.S. Elevation (ft)	1467		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, iron stained, oxidized till	1-23
CLAY	olive gray, silty, sandy with pebbles, unoxidized till	23-26
CLAY	olive gray, very silty, drills fast	26-40

**153-064-16AAB**

NDSWC GN-3

Date Completed:	1/1/38	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1430		

**153-064-16AAC1**

NDSWC GN-2

Date Completed:	1/1/38	Well Type:	
Depth Drilled (ft):	93	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1430		

**153-064-16AAC2**

GN-1

Date Completed: 1/1/38 Well Type:  
 Depth Drilled (ft): 103 Source of Data: Hutchinson, 1977  
 Screened Interval (ft): Principal Aquifer : No Obs Well  
 L.S. Elevation (ft) 1430

**153-064-16AAC3**

GN-3

Date Completed: 1/1/38 Well Type:  
 Depth Drilled (ft): 101 Source of Data: Hutchinson, 1977  
 Screened Interval (ft): Principal Aquifer : No Obs Well  
 L.S. Elevation (ft) 1430

**153-064-16CCB**

GN-6

Date Completed: 1/1/38 Well Type:  
 Depth Drilled (ft): 95 Source of Data: Hutchinson, 1977  
 Screened Interval (ft): Principal Aquifer : No Obs Well  
 L.S. Elevation (ft) 1445

**153-064-16CCC**

GN-5

Date Completed: 1/1/38 Well Type:  
 Depth Drilled (ft): 106 Source of Data: Randich, 1977  
 Screened Interval (ft): Principal Aquifer : No Obs Well  
 L.S. Elevation (ft) 1440

**153-064-18C L**

DEVILS LAKE

Date Completed: Well Type: Lake stage gage  
 Depth Drilled (ft): Source of Data:  
 Screened Interval (ft): Principal Aquifer :  
 L.S. Elevation (ft) 1400.0

**153-064-19AAB2**

NDSWC 8869

Date Completed: Well Type:  
 Depth Drilled (ft): Source of Data: Hutchinson, 1977  
 Screened Interval (ft): Principal Aquifer : Spiritwood Aquifer  
 L.S. Elevation (ft) 1465

**153-064-19AAB3**

NDSWC 8869-A

Date Completed: Well Type: 4 inch  
 Depth Drilled (ft): Source of Data: Hutchinson, 1977  
 Screened Interval (ft): Principal Aquifer : Spiritwood Aquifer  
 L.S. Elevation (ft) 1458.97

**153-064-19BBC**

GN-8

Date Completed: Well Type:  
 Depth Drilled (ft): Source of Data: Hutchinson, 1977  
 Screened Interval (ft): Principal Aquifer : No Obs Well  
 L.S. Elevation (ft) 1470

**153-064-21BAB**

NDSWC 11874

Date Completed:	9/15/86	Well Type:	2 inch PVC
Depth Drilled (ft):	27	Source of Data:	
Screened Interval (ft):	15-25	Principal Aquifer :	Till
L.S. Elevation (ft)	1438.4		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, greasy	1-4
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till	4-13
SAND	some gravel, mostly shale	13-15
CLAY	yellowish brown, oxidized, silty sandy with pebbles, till as above	15-17
CLAY	olive gray, silty, sandy with pebbles, till	17-27

**153-064-21BAB1**

NDSWC 402

Date Completed:	1/1/51	Well Type:	
Depth Drilled (ft):	150	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1440		

**153-064-21BCA**

NDSWC 401

Date Completed:	1/1/51	Well Type:	
Depth Drilled (ft):	150	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1435		

**153-064-21CBD**

DLth1

Date Completed:	1/1/50	Well Type:	
Depth Drilled (ft):	155	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1440		

**153-064-21CCC1**

NDSWC 12080A

Date Completed:	6/1/88	Well Type:	1.25 inch PVC
Depth Drilled (ft):	250	Source of Data:	
Screened Interval (ft):	218-223	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1442.65		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, very sandy, with pebbles, rocky, oxidized till	1-16
CLAY	olive gray, silty, very sandy with pebbles, rocky, till	16-24
CLAY	olive gray, plastic, sticky, drills smooth	24-76
SAND	very fine to fine, well rounded, good sorting, 80 % shale	76-80
SAND	medium to coarse, 80 % shale, 20 % lignites, well rounded to subrounded	80-101
GRAVEL	well rounded to subrounded, 60 % shale, 20 % igneous, 10 % carbonates and 10 % lignites, some wood fragments, drills choppy, very coarse sand to pea size gravel, some rocks	101-236
SHALE	black, brittle, drills slow, Pierre Shale, bedrock	236-250

**153-064-21CCC2**

NDSWC 12080B

Date Completed:	6/1/88	Well Type:	1.25 inch PVC
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):	93-98	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1442.3		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, rocky, very sandy, till	1-4
GRAVEL	oxidized	4-6
CLAY	yellowish brown, till as above, oxidized	6-14
CLAY	olive gray, silty, sandy with pebbles, till	14-26
CLAY	olive gray, sticky, plastic, Lake Clays	26-73
SAND	very fine to medium, well rounded to subrounded, 2 % angular lignites, drills fast and clean	73-100

**153-064-21CCC3**

NDSWC 12080C

Date Completed:	6/1/88	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	8.5-18.5	Principal Aquifer :	Till
L.S. Elevation (ft)	1442.29		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty sandy with pebbles, oxidized till	1-14
CLAY	olive gray, silty, sandy with pebbles, till	13-20

**153-064-21CDC**

Devils Lake test hole 4

Date Completed:	1/1/50	Well Type:	
Depth Drilled (ft):	249	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1440		

**153-064-28BCA**

NDSWC 403

Date Completed:	1/1/50	Well Type:	
Depth Drilled (ft):	210	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1435		

**153-064-28BCD**

GN FT

Date Completed:	1/1/28	Well Type:	Steel
Depth Drilled (ft):	258	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	235-258	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1440		

**153-064-28BCD1**

NDSWC 12027A

Date Completed:	8/26/87	Well Type:	
Depth Drilled (ft):	260	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1445		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized, Lake Clays	1-10
CLAY	as above, olive gray	10-13
CLAY	olive gray, silty, sandy with pebbles, poorly sorted, till	13-41
SAND	80 % shale, well rounded to subrounded, pea gravel to very coarse sand	41-45
CLAY	olive gray till shale gravel from 72 to 73, 77 to 78, and 124 to 127 feet	45-139
SHALE	mixed with till, black brittle, drills slow and smooth, Bedrock, Pierre shale	139-145
SHALE	black, brittle, interbedded with black, greasy clay, some bentonite, drills tight, bedrock, Pierre Shale	145-260

**153-064-28BCD2**

NDSWC 12027B

Date Completed:	8/27/87	Well Type:	2 inch PVC
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):	88-93	Principal Aquifer :	Till
L.S. Elevation (ft)	1437.3		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized, silty	1-11
CLAY	olive gray, silty, sandy, with shale pebbles, till	11-77
GRAVEL	80 % shale, sandy	77-78
TILL	as above	78-80
GRAVEL	shale	80-81
CLAY	olive gray till, as above, sandy	81-100

**153-064-28BCD3**

NDSWC 12027C

Date Completed:	8/27/87	Well Type:	2 inch PVC
Depth Drilled (ft):	60	Source of Data:	
Screened Interval (ft):	48-53	Principal Aquifer :	Till
L.S. Elevation (ft)	1437.7		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized	2-11
CLAY	olive, gray, till	11-60

**153-064-28BCD4**

NDSWC 12027D

Date Completed:	8/27/87	Well Type:	2 inch PVC
Depth Drilled (ft):	30	Source of Data:	
Screened Interval (ft):	20-25	Principal Aquifer :	Till
L.S. Elevation (ft)	1438.3		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized, greasy	2-12
CLAY	olive gray, silty, sandy with shale pebbles, till	12-30

**153-064-28CDC**

DL 2

Date Completed:	1/1/50	Well Type:	
Depth Drilled (ft):	200	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1430		

**153-064-29BBBA1**

NDSWC 10028A

Date Completed:	8/27/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):	183-188	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1465.9		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, oxidized, silty, very sandy, till	1-30
CLAY	olive gray, silty, very sandy, poorly sorted, shale pebbles, till	30-53
CLAY	olive gray, slightly silty, plastic, lake clays	53-143
CLAY	olive gray, silty, very sandy, poorly sorted, some gravel, till, drills as if interbedded with 1 to 2 foot stringers of sand gravel	129-143
GRAVEL	shale, some lignite	143-150
CLAY	till, as above	150-153
GRAVEL	sandy, well rounded to subrounded, very coarse sand to pea size gravel, some cobbles, 60 % shale, remainder quartz, granites, and carbonates, drills choppy and rough, taking water, drills clean except for infrequent sandy clay layer, lots of lignite from 185 to 190 feet	153-190
CLAY	dark gray to black, some black shale, Pierre shale	190-200

**153-064-29BBBA2**

NDSWC

Date Completed:	8/27/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	160	Source of Data:	
Screened Interval (ft):	151-156	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1466.2		

**Lithologic Log**

Unit	Description	Depth (ft)
see log for 29 BBBB1		

**153-064-29BBBA3**

NDSWC 12028C

Date Completed:	8/28/87	Well Type:	2 inch PVC
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):	88-93	Principal Aquifer :	clay
L.S. Elevation (ft)	1466.4		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, greasy, oxidized, silty sand with pebbles, till	1-31
CLAY	olive gray, till	31-56
CLAY	gray to black, greasy, Lake Clays	56-100

**153-064-29BBBA4**

NDSWC 12028D

Date Completed:	8/28/87	Well Type:	2 inch PVC
Depth Drilled (ft):	60	Source of Data:	
Screened Interval (ft):	46-51	Principal Aquifer :	Till
L.S. Elevation (ft)	1466.9		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-2
CLAY	yellowish brown, iron stained, silty, sandy with pebbles, oxidized till	2-31
CLAY	olive gray, silty, sandy with pebbles, till	31-51
CLAY	olive gray, greasy, Lake Clays	51-60

**153-064-33BAB**

NDSWC 8870

Date Completed:	8/30/73	Well Type:	
Depth Drilled (ft):	260	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1425		

**153-064-33DDD**

NDSWC 11945

Date Completed:	11/4/90	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	24-29	Principal Aquifer :	Sand Sediments
L.S. Elevation (ft)	1430.6		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized, silty, sandy with pebbles, till	1-4
SAND	very fine to fine, oxidized, drills as if inter bedded with silty clays	4-21
SAND	gray, unoxidized, very fine to medium, well rounded to subrounded, drills fast	21-40

**153-064-35DCC**

NDSWC 11916

Date Completed:	10/1/86	Well Type:	2 inch PVC
Depth Drilled (ft):	35	Source of Data:	
Screened Interval (ft):	28-33	Principal Aquifer :	Till
L.S. Elevation (ft)	1445		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized, plastic cohesive, Lake Clays	1-3
CLAY	yellowish brown, silty sandy with pebbles, oxidized till	4-21
CLAY	olive gray, silty, very sandy with pebbles, poorly sorted, till	21-35

**153-064-36DCC**

NDSWC 11902

Date Completed:	9/29/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	13-18	Principal Aquifer :	Till
L.S. Elevation (ft)	1436.7		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish gray, iron stained, plastic cohesive, Lake Clays	1-5
GRAVEL	sandy, oxidized	5-6
CLAY	yellowish brown, silty sandy with pebbles, till	6-11
CLAY	olive gray, silty, sandy with pebbles, poorly sorted till	11-20

**153-065-01BBA**

NDSWC 182

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	150	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1485		

**153-065-01CDD**

NDSWC 9047

Date Completed:	8/21/74	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1446		

**153-065-02CCC**

NDSWC 11871

Date Completed:	9/15/86	Well Type:	2 inch PVC
Depth Drilled (ft):	30	Source of Data:	
Screened Interval (ft):	23-28	Principal Aquifer :	Till
L.S. Elevation (ft)	1479.78		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized, silty, sandy with pebbles, till	1-4
SAND	and gravel, oxidized	4-5
CLAY	oxidized, till as above	5-25
CLAY	olive gray, silty, sandy with pebbles, till	25-30

**153-065-02CCC1**

NDSWC 188

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	188	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1481		

**153-065-03ABB**

NDSWC 4772

Date Completed:	1/31/74	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1457		

**153-065-03BBB**

NDSWC 8866

Date Completed:	8/29/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	240	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	157-163	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1457.8		

**153-065-04CCD**

NDSWC 9045

Date Completed:	8/20/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	118-121	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1448.33		

**153-065-09AAB**

NDSWC 11872

Date Completed:	9/15/86	Well Type:	2 inch PVC
Depth Drilled (ft):	32	Source of Data:	
Screened Interval (ft):	23-28	Principal Aquifer :	Till
L.S. Elevation (ft)	1456.33		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, silty, very sandy with pebbles, till, layer of sand and gravel from 15 to 16	1-26
CLAY	olive gray, silty, sandy with pebbles, till very sandy, layer of shale gravel from 29 to 39 feet	26-32

**153-065-09BBA1**

NDSWC 9050

Date Completed:	8/22/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	98-101	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1430		

**153-065-09BBA2**

NDSWC 9051

Date Completed:	8/22/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	98-101	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1433		

**153-065-09BBA3**  
 NDSWC Production well  
 Date Completed: 8/23/74 Well Type:  
 Depth Drilled (ft): 130 Source of Data:  
 Screened Interval (ft): 74-113 Principal Aquifer :  
 L.S. Elevation (ft) 1443 12 inch steel  
 Hutchinson, 1977  
 Spiritwood Aquifer

**153-065-09BBB**  
 6 mile bay  
 Date Completed:  
 Depth Drilled (ft): 0 Well Type:  
 Screened Interval (ft):  
 L.S. Elevation (ft) 0 Source of Data:  
 Principal Aquifer : Devils Lake Sample. water quality

**153-065-09BBD**  
 NDSWC 9049  
 Date Completed: 8/21/74 Well Type:  
 Depth Drilled (ft): 140 Source of Data:  
 Screened Interval (ft): 118-121 Principal Aquifer :  
 L.S. Elevation (ft) 1441 1.25 inch PVC  
 Hutchinson, 1977  
 Spiritwood Aquifer

**153-065-09BDC**  
 NDSWC 9052  
 Date Completed: 8/22/74 Well Type:  
 Depth Drilled (ft): 140 Source of Data:  
 Screened Interval (ft): 98-101 Principal Aquifer :  
 L.S. Elevation (ft) 1440 1.25 inch PVC  
 Hutchinson, 1977  
 Spiritwood Aquifer

**153-065-09DDD2**  
 NDSWC 8865  
 Date Completed: 8/29/73 Well Type:  
 Depth Drilled (ft): 140 Source of Data:  
 Screened Interval (ft): 117-120 Principal Aquifer :  
 L.S. Elevation (ft) 1458.72 1.25 inch PVC  
 Hutchinson, 1977  
 Spiritwood Aquifer

**153-065-10BBB**  
 NDSWC 9048  
 Date Completed: 8/21/74 Well Type:  
 Depth Drilled (ft): 280 Source of Data:  
 Screened Interval (ft): 138-141 Principal Aquifer :  
 L.S. Elevation (ft) 1460.05 1.25 inch PVC  
 Hutchinson, 1977  
 Spiritwood Aquifer

**153-065-11ADD**  
 NDSWC 8867  
 Date Completed: 8/29/73 Well Type:  
 Depth Drilled (ft): 160 Source of Data:  
 Screened Interval (ft): 140-143 Principal Aquifer :  
 L.S. Elevation (ft) 1464.31 1.25 inch PVC  
 Hutchinson, 1977  
 Spiritwood Aquifer

**153-065-11BBB**  
 NDSWC 9046  
 Date Completed: 8/21/74 Well Type:  
 Depth Drilled (ft): 240 Source of Data:  
 Screened Interval (ft): 138-141 Principal Aquifer :  
 L.S. Elevation (ft) 1480 1.25 inch PVC  
 Hutchinson, 1977  
 Spiritwood Aquifer

**153-065-12BBB**  
 NDSWC 193  
 Date Completed: 1/1/49 Well Type:  
 Depth Drilled (ft): 185 Source of Data:  
 Screened Interval (ft):  
 L.S. Elevation (ft) 1482 Principal Aquifer : Hutchinson, 1977  
 No Obs Well

**153-065-12BCC**

NDSWC 11870

Date Completed:	9/15/86	Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	18-23	Principal Aquifer :	Till
L.S. Elevation (ft)	1462.85		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till	1-15
CLAY	yellowish brown, oxidized, very silty	15-17
CLAY	yellowish brown, oxidized till	17-19
CLAY	olive gray, silty, sandy with pebbles, till	19-25

**153-065-12CCD**

NDSWC 191

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	175	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1443		

**153-065-12DDD**

NDSWC 195

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	150	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1440		

**153-065-13CAB**

NDSWC 196

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	250	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1443		

**153-065-14BBB**

NDSWC 189

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	250	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1470		

**153-065-14CCC**

NDSWC 190

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	115	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1443		

**153-065-15DDA**

NDSWC 8864

Date Completed:	8/28/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	117-120	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1449.3		

**153-065-18CCC**

NDSWC 12037

Date Completed:	9/9/87	Well Type:	2 inch PVC
Depth Drilled (ft):	17	Source of Data:	
Screened Interval (ft):	6-16	Principal Aquifer :	Till
L.S. Elevation (ft)	1434.9		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
GRAVEL	oxidized	1-3
CLAY	silty, sandy, some pebbles, yellowish brown, oxidized	3-14
CLAY	olive gray, silty, sandy	14-17

**153-065-22BBB**

NDSWC 197

Date Completed:	1949	Well Type:	
Depth Drilled (ft):	265	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1439		

**153-065-24BAA**

test hole 192

Date Completed:	1949	Well Type:	
Depth Drilled (ft):	265	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1421		

**153-065-28BAA**

USBR

Date Completed:	1/1/58	Well Type:	
Depth Drilled (ft):	70	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1418		

**153-065-28CDA**

USBR

Date Completed:	1/1/58	Well Type:	
Depth Drilled (ft):	70	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1430		

**153-065-28DBB**

USBR

Date Completed:	1/1/58	Well Type:	
Depth Drilled (ft):	70	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1416		

**153-065-30ABD**

NDSWC 8880

Date Completed:	9/6/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1575		

**153-065-32BBB**

NDSWC 5687

Date Completed:	1/1/70	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1450		

**153-065-32CDC**

NDSWC 5482

Date Completed:	9/18/69	Well Type:	
Depth Drilled (ft):	240	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1460		

**153-066-01DDD**

NDSWC 5484

Date Completed:	9/19/69	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):	97-103	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1444.56		

**153-066-15DCC**

NDSWC 45

Date Completed:	5/4/48	Well Type:	
Depth Drilled (ft):	146	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1430		

**153-066-18CDD1**

NDSWC 13032A

Date Completed:	9/2/87	Well Type:	2 inch PVC
Depth Drilled (ft):	80	Source of Data:	
Screened Interval (ft):	73-78	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1436.4		

## Lithologic Log

Unit	Description	Depth (ft)
CLAYSTONE		0-1
CLAY	yellowish brown, silty, sandy with pebbles, iron stained, oxidized till	1-16
CLAY	olive gray, till as above, unweathered	16-54
GRAVEL	shale, very coarse sand to pea gravel, 50 % shale	54-57
CLAY	olive gray till as above, 60 to 66, rocky	57-71
CLAY	black to dark gray, interbedded with black, brittle shale	71-80

**153-066-18CDD2**

NDSWC 12032B

Date Completed:	9/2/87	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	33.5-38.5	Principal Aquifer :	clay
L.S. Elevation (ft)	1436.4		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	silty, sandy, yellowish brown, some pebbles, poorly sorted, oxidized till	1-20
CLAY	as above, olive gray, unoxidized, sand, very fine to fine, 32 to 36 feet	20-40

**153-066-18CDD3**

NDSWC 12032C

Date Completed:	9/2/87	Well Type:	2 inch PVC
Depth Drilled (ft):	15	Source of Data:	
Screened Interval (ft):	9-14	Principal Aquifer :	Till
L.S. Elevation (ft)	1436.3		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, very sandy, iron stained, oxidized, weathered till	1-15

**153-066-19BBB**

NDSWC 39

Date Completed:	8/22/46	Well Type:	
Depth Drilled (ft):	66	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1425		

**153-066-20BAB**

NDSWC 42

Date Completed:	9/2/46	Well Type:	
Depth Drilled (ft):	239	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1425		

**153-066-21AAB**

NDSWC 41

Date Completed:		Well Type:	
Depth Drilled (ft):	0	Source of Data:	Randich, 1971
Screened Interval (ft):	0-60	Principal Aquifer :	
L.S. Elevation (ft)	1428		

**153-066-21BAB**

NDSWC 43

Date Completed:	9/4/46	Well Type:	
Depth Drilled (ft):	230	Source of Data:	Arnow, 1953
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1425		

**153-066-21BBB**

NDSWC 40

Date Completed:	8/23/46	Well Type:	
Depth Drilled (ft):	324	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1424		

**153-066-22BAB**

NDSWC 44

Date Completed:	5/3/48	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1435		

**153-066-23AAA**

NDSWC 12038

Date Completed:	9/9/87	Well Type:	2 inch PVC
Depth Drilled (ft):	30	Source of Data:	
Screened Interval (ft):	24-29	Principal Aquifer :	Till
L.S. Elevation (ft)	1454.9		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	silty, sandy, yellowish brown, iron stained, oxidized	1-17
CLAY	olive gray, silty, sandy, poorly sorted, till	17-30

**153-066-23BBB**

NDSWC 12039

Date Completed:	9/9/87	Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	18-23	Principal Aquifer :	Till
L.S. Elevation (ft)	1445.3		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, iron stained, oxidized till	1-16
CLAY	olive gray, silty sandy with pebbles, till	16-25

**153-066-25AAD**

NDSWC 5483

Date Completed:	9/18/69	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1496		

**153-067-07BBB**

NDSWC 5493

Date Completed:	1969	Well Type:	
Depth Drilled (ft):	117	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	
L.S. Elevation (ft)	1530		

**153-067-26ACC**

NDSWC 11856

Date Completed:	9/10/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	10-15	Principal Aquifer :	clay
L.S. Elevation (ft)	1437.5		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	fill	0-1
CLAY	yellowish brown, oxidized, greasy, plastic	1-11
CLAY	olive gray, greasy, plastic, cohesive, tight, no pebbles, lake clays	11-20

**153-067-35AAB**

NDSWC 11857

Date Completed:	9/10/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	10-20	Principal Aquifer :	Till
L.S. Elevation (ft)	1444.4		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	road fill	0-1
SAND	gravel, oxidized, poorly sorted, well rounded to subrounded	1-6
CLAY	yellowish brown, iron stained, some shale pebbles, oxidized till	6-11
GRAVEL	iron stained, oxidized, sandy, well rounded to subrounded	11-12
CLAY	yellowish brown, iron stained, oxidized, some pebbles, till	12-16
CLAY	olive gray, pebbles, till	16-20

**153-067-35AAC**

NDSWC 24

Date Completed:	7/31/46	Well Type:	
Depth Drilled (ft):	164	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1445		

**153-067-35ADC**

NDSWC 11858

Date Completed:	9/10/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	10-15	Principal Aquifer :	clay
L.S. Elevation (ft)	1450.2		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	gravel, oxidized, abundant chunks of shale gravel	1-6
CLAY	yellowish brown, iron stained, Lake Clays	6-10
CLAY	olive gray, greasy, plastic, cohesive, Lake Clays	10-20

**153-067-36AAB1**

NDSWC 26

Date Completed:	8/3/46	Well Type:	
Depth Drilled (ft):	68	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1445		

**153-067-36AAB2**

NDSWC 25

Date Completed:	8/1/46	Well Type:	
Depth Drilled (ft):	97	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1445		

**153-067-36ABA**

NDSWC 27

Date Completed:	8/5/46	Well Type:	
Depth Drilled (ft):	49	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1445		

**153-068-03ADA**

NDSWC 5684

Date Completed:	6/1/70	Well Type:	
Depth Drilled (ft):	300	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1580		

**153-068-16AAA**

NDSWC 5494

Date Completed:	9/23/69	Well Type:	
Depth Drilled (ft):	200	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1600		

**153-068-18DDD1**

NDSWC 5067

Date Completed:	7/26/68	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Randich, 1971
Screened Interval (ft):	42-45	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1618		

**153-068-18DDD2**

NDSWC 5067A

Date Completed:	7/26/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	0	Source of Data:	Randich, 1971
Screened Interval (ft):	77-80	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1618		

**153-068-24AAA**

NDSWC 5066

Date Completed:	7/25/68	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1580		

**153-068-32DDD**

NDSWC 5065

Date Completed:	7/25/68	Well Type:	
Depth Drilled (ft):	200	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1656		

**153-068-36CDD**

NDSWC 5495

Date Completed:	9/24/69	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1570		

**154-061-09DAA**

NDSWC 8802

Date Completed:	8/2/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1502		

**154-061-14DDC**

USAF 32

Date Completed:	1/1/62	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-130	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1502		

**154-061-22AAA**

NDSWC 8803

Date Completed:	8/2/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1505		

**154-061-30AAA**

NDSWC 8804

Date Completed:	8/2/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1489		

**154-062-05CCA**

AF 2040

Date Completed:	1/1/62	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-130	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1482		

**154-062-06DDD**

NDSWC 9091

Date Completed:	9/10/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	48-51	Principal Aquifer :	Gravel Sediments
L.S. Elevation (ft)	1484		

**154-062-07DDD**

NDSWC 8843

Date Completed:	8/16/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	57-60	Principal Aquifer :	Sand Sediments
L.S. Elevation (ft)	1485		

**154-062-13ADD**

NDSWC 8805

Date Completed:	8/2/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1505		

**154-062-19AAA**

NDSWC 9092

Date Completed:	9/10/74	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1487		

**154-062-25AAD**

USAF 37

Date Completed:	1/1/62	Well Type:	
Depth Drilled (ft):	132	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-132	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1498		

**154-062-25DAD**

AF 2037

Date Completed:	1/1/62	Well Type:	
Depth Drilled (ft):	132	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-132	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1506		

**154-062-29AAA**

NDSWC 8814

Date Completed:	8/7/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1485		

**154-062-31DDA**

AF 39-1

Date Completed:	1/1/62	Well Type:	1.25 inch abs
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-132	Principal Aquifer :	Silt Sediments
L.S. Elevation (ft)	1482		

**154-062-35ABB**

NDSWC 8815

Date Completed:	8/7/73	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1506		

**154-063-05CCC**

NDSWC 127

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	50	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1487		

**154-063-06AAA1**

NDSWC 126

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	40	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1471		

**154-063-06AAA2**

NDSWC 9081

Date Completed:	9/4/74	Well Type:	
Depth Drilled (ft):	40	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1476		

**154-063-07ABB**

NDSWC 128

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	70	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1485		

**154-063-07CCC**

NDSWC 11875

Date Completed:	9/16/86	Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	18-23	Principal Aquifer :	Till
L.S. Elevation (ft)	1481.5		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-3
CLAY	yellowish brown, silty, sandy with pebbles, oxidized, iron stained, till	3-12
SAND	and gravel, oxidized, taking water	12-17
CLAY	yellowish brown, oxidized, silty	17-19
CLAY	olive gray, silty, sandy with pebbles, till	19-25

**154-063-10CCC**

NDSWC 9096

Date Completed:	9/11/74	Well Type:	
Depth Drilled (ft):	40	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1483		

**154-063-10DDD**

NDSWC 9095

Date Completed:	9/10/74	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1475		

**154-063-12BBB**

NDSWC 8842

Date Completed:	8/16/73	Well Type:	
Depth Drilled (ft):	630	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1485		

**154-063-12CCC**

NDSWC 9094

Date Completed:	9/10/74	Well Type:	
Depth Drilled (ft):	580	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1484		

**154-063-12DDD**

NDSWC 9093

Date Completed:	9/10/74	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1482		

**154-063-18AAA**

NDSWC 8818

Date Completed:	8/7/73	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1491		

**154-063-19DAA**

NDSWC 588

Date Completed:	1/1/52	Well Type:	
Depth Drilled (ft):	90	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1556		

**154-063-21AAA**

NDSWC 8817

Date Completed:	8/7/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	70-73	Principal Aquifer :	Gravel Sediments
L.S. Elevation (ft)	1482		

**154-063-27BBB**

NDSWC 9097

Date Completed:	9/11/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	
Screened Interval (ft):	101-108	Principal Aquifer :	Gravel Sediments
L.S. Elevation (ft)	1482.3		

**154-063-30BBB**

NDSWC 11876

Date Completed:	9/16/86	Well Type:	2 inch PVC
Depth Drilled (ft):	35	Source of Data:	
Screened Interval (ft):	28-33	Principal Aquifer :	Till
L.S. Elevation (ft)	1494.9		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-2
CLAY	yellowish brown, silty, sandy with pebbles, oxidized, iron stained, till	2-28
CLAY	olive gray, silty, sandy, with pebbles, poorly sorted, till	28-35

**154-063-33DDD**

KP-2A

Date Completed:	7/24/86	Well Type:	4 inch
Depth Drilled (ft):	0	Source of Data:	Hickok, 1986
Screened Interval (ft):	15-20	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1462.19		

**154-063-35BBB**

NDSWC 8816

Date Completed:	8/7/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1500		

**154-064-01CDD**

NDSWC 130

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	110	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1461		

**154-064-01DDD**

NDSWC 129

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1469		

**154-064-02CDD**

NDSWC 132

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1463		

**154-064-03BAA**

NDSWC 135

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	110	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		

**154-064-03BBA**

NDSWC 203

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	113	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1467		

**154-064-03CAD**

NDSWC 156

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	90	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1466		

**154-064-03CDD**

NDSWC 134

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	110	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1479		

**154-064-03DDD**

NDSWC 133

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	70	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1467		

**154-064-04CCC**

NDSWC 2X

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	32	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		

**154-064-04CDD**

NDSWC 1X

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	15	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1430		

**154-064-05BBB**

NDSWC 8838

Date Completed:	8/1/73	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1472		

**154-064-07DDA**

NDSWC 8837

Date Completed:	8/1/73	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1475		

**154-064-09DCC**

NDSWC 176

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	155	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1504		

**154-064-10BBB**

NDSWC 158

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	105	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1470		

**154-064-10CAA**

NDSWC 157

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	44	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1471		

**154-064-11CDD**

NDSWC 9077

Date Completed:	9/4/74	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1464		

**154-064-12BBB**

NDSWC 131

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1463		

**154-064-12CCC**

NDSWC 8819

Date Completed:	8/8/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	83-86	Principal Aquifer :	Sand Sediments
L.S. Elevation (ft)	1476.4		

**154-064-12DDD**

NDSWC 9080

Date Completed:	9/1/74	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1479		

**154-064-14DCC**

NDSWC 9078

Date Completed:	9/4/74	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1463		

**154-064-15ABB**  
NDSWC 3X

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	27	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1476		

**154-064-16AAA**  
NDSWC 175

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	95	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1466		

**154-064-18CCC**  
NDSWC 8835

Date Completed:	8/1/73	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1472		

**154-064-20CBC**  
NDSWC 8836

Date Completed:	8/1/73	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1472		

**154-064-22ABB**  
Great Northern 9

Date Completed:	1/1/39	Well Type:	
Depth Drilled (ft):	112	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-112	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1465		

**154-064-22DCC**  
Great Northern 10

Date Completed:	1/1/39	Well Type:	
Depth Drilled (ft):	70	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1475		

**154-064-25BBB**  
NDSWC 9079

Date Completed:	9/4/74	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1464		

**154-064-26DDD**  
NDSWC 8861

Date Completed:	8/28/73	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1451		

**154-064-27ABC**  
Great Northern 11

Date Completed:	1/1/39	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1470		

**154-064-27DCB**  
Great Northern 12

Date Completed:	1/1/39	Well Type:	
Depth Drilled (ft):	48	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-48	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1465		

**154-064-29ADD**  
NDSWC 11914

Date Completed:	9/30/86	Well Type:	2 inch PVC
Depth Drilled (ft):	0	Source of Data:	
Screened Interval (ft):	22.5-27.5	Principal Aquifer :	Till
L.S. Elevation (ft)	1456.6		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-2
CLAY	yellowish brown, iron stained, oxidized, silty, sandy, with pebbles, till	2-22
GRAVEL	sandy, oxidized, iron stained, coarse to very coarse sand, fine gravel	22-23
CLAY	olive gray, silty, sandy, with pebbles, poorly sorted, unoxidized till	23-30

**154-064-31CDD1**  
NDSWC 12081A

Date Completed:	6/2/88	Well Type:	2 inch PVC
Depth Drilled (ft):	90	Source of Data:	
Screened Interval (ft):	69-74	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1456.31		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, very sandy, pebbled, rocky, oxidized till	1-16
CLAY	olive gray, silty, sandy with pebbles, till	16-51
SAND	poor return, probably fine and silty, drills fast	51-57
GRAVEL	sandy, drills choppy, medium sand to pea gravel, well rounded to subrounded, caving and taking water, 70 % shale, 10 % igneous and 20 % carbonates, some shale pebbles have angular edges, mixed 2 mud	57-77
CLAY	black, angular, few shale pebbles in clay matrix, drills slow, very sticky,	77-90

**154-064-31CDD2**

NDSWC 12081B

Date Completed:	6/1/88	Well Type:	2 inch PVC
Depth Drilled (ft):	28	Source of Data:	
Screened Interval (ft):	14.5-24.5	Principal Aquifer :	Till
L.S. Elevation (ft)	1456.1		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till	1-16
CLAY	olive gray, silty, very sandy with pebbles, till	16-28

**154-064-31DDD**

NDSWC 8862

Date Completed:	8/28/73	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1440		

**154-064-33BBA1**

NDGS 9

Date Completed:		Well Type:	2 inch PVC
Depth Drilled (ft):	23	Source of Data:	
Screened Interval (ft):	18-23	Principal Aquifer :	Sand Sediments
L.S. Elevation (ft)	1436.87		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		.5
CLAY	red, bentonitic, gray laminated, iron staining, silt zones, moist lacustrine	0.5-3
SAND & GRAVEL	reddish stained, medium to coarse grained, 1/2 inch pebbles, some clay zones	3-10
TILL	gray, contains 3 to 6 inch thick sand and silt zones	10-13
SAND & GRAVEL	gray, medium to coarse sand to 1 and 1/2 inch pebbles, 40 to 60 % shale	13-29
TILL	gray, sandy at top, becomes coarser with depth	20-23

**154-064-33BBA2**

NDSWC

Date Completed:		Well Type:	2 inch PVC
Depth Drilled (ft):	10	Source of Data:	
Screened Interval (ft):	5-10	Principal Aquifer :	Sand Sediments
L.S. Elevation (ft)	1436.91		

## Lithologic Log

Unit	Description	Depth (ft)
see log for 33 BBA1		

**154-064-33DCC**

Devils Lake waste water lagoon, middle cell

Date Completed: Well Type:  
 Depth Drilled (ft): Source of Data:  
 Screened Interval (ft): Principal Aquifer : qw sample  
 L.S. Elevation (ft)

**154-064-33DCD**

Devils Lake waste water lagoon, primary cell

Date Completed: Well Type:  
 Depth Drilled (ft): Source of Data:  
 Screened Interval (ft): Principal Aquifer : qw sample  
 L.S. Elevation (ft)

**154-064-34CCB1**

NDGS 1

Date Completed: Well Type: 2 inch PVC  
 Depth Drilled (ft): 28 Source of Data:  
 Screened Interval (ft): 18-28 Principal Aquifer : Till  
 L.S. Elevation (ft) 1427.92

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
TILL	gray/brown, clay with pebbles, iron stained	1-10
TILL	gray clay with pebbles	10-17
SILT	gray, saturated	17-17.5
SAND	gray, fine, well sorted	17.5-18
SAND	gray, medium to coarse, some pebbles	
TILL	gray, shale pebbles	21-28

**154-064-34CCB2**

NDGS 6

Date Completed: Well Type: 2 inch PVC  
 Depth Drilled (ft): 17 Source of Data:  
 Screened Interval (ft): 8-13 Principal Aquifer : Till  
 L.S. Elevation (ft) 1427.77

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	gray/brown, iron stained	1-6
TILL	gray/brown, iron stained	6-10
TILL	gray, clay with pebbles	10-17

**154-064-34CCB3**

NDSWC 12079A

Date Completed:	5/27/88	Well Type:	2 inch PVC
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):	93-98	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1427.86		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with shale pebbles, oxidized till	1-11
CLAY	olive gray, silty sandy with pebbles, unoxidized till	11-21
TILL	layered with 1/2 to 1 foot stringers of shale gravel	21-25
CLAY	olive gray till as above	25-28
GRAVEL	shale, poor return	28-29
CLAY	till as above	29-54
TILL	interbedded with 1/2 foot stringers of sand and gravel	54-63
GRAVEL	sandy, 80 % shale, 10 % limestone and 10 % igneous, well rounded to subrounded, drills fast, taking water	63-82
SHALE	black, brittle, layered with silty, black, greasy clay, also some bentonite, bedrock, Pierre Shale	82-100

**154-064-34CCB4**

NDSWC 12079B

Date Completed:	5/27/88	Well Type:	2 inch PVC
Depth Drilled (ft):	80	Source of Data:	
Screened Interval (ft):	74-79	Principal Aquifer :	Gravel Sediments
L.S. Elevation (ft)	1427.93		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, silty, sandy with pebbles, oxidized till	1-11
CLAY	olive gray, silty, sandy with pebbles, till, not as layered with sand and gravel as 34CCB3	11-72
GRAVEL	sandy, 80 % shale, medium sand to pea gravel, interbedded with till, well rounded to subrounded, gravel not taking water	72-80

**154-064-34DAC**

Devils Lake # 1

Date Completed:		Well Type:	
Depth Drilled (ft):	1511	Source of Data:	
Screened Interval (ft):		Principal Aquifer :	Dakota Group
L.S. Elevation (ft)	1472		

**154-064-34DCB1**

Devils Lake # 2

Date Completed:	1/1/30	Well Type:	
Depth Drilled (ft):	730	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-1514	Principal Aquifer :	Dakota Group
L.S. Elevation (ft)	1462		

**154-064-34DCB2**

Devils Lake # 3

Date Completed:	1/1/50	Well Type:	
Depth Drilled (ft):	1520	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-1496	Principal Aquifer :	Dakota Group
L.S. Elevation (ft)	1462		

**154-064-34DCC**

Devils Lake # 4

Date Completed:	1/1/51	Well Type:	
Depth Drilled (ft):	1512	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-1500	Principal Aquifer :	Dakota Group
L.S. Elevation (ft)	1442		

**154-065-02DDD**

NDSWC 11868

Date Completed:	9/12/86	Well Type:	2 inch PVC
Depth Drilled (ft):	25	Source of Data:	
Screened Interval (ft):	18-23	Principal Aquifer :	Till
L.S. Elevation (ft)	1467.54		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL	yellowish brown, iron stained, silty, sandy with pebbles, till	1-17.5
CLAY	olive gray, silty, sandy with pebbles, till	17.5-25

**154-065-03DDD**

NDSWC 8834

Date Completed:	8/14/73	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1458		

**154-065-07AAA1**

NDSWC 11799

Date Completed:	6/25/86	Well Type:	2 inch PVC
Depth Drilled (ft):	33	Source of Data:	
Screened Interval (ft):	26-31	Principal Aquifer :	Till
L.S. Elevation (ft)	1459.31		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, oxidized, silty, sandy with pebbles, till	1-21
TILL	oxidized, unoxidized transition zone	21-22
CLAY	olive gray, silty, sandy with pebbles, unoxidized till mainly shale pebbles, 27 to 28 feet, very fine sand layer	22-33

**154-065-07AAA2**

NDSWC 11799

Date Completed:	6/25/86	Well Type:	1.25 inch PVC
Depth Drilled (ft):	33	Source of Data:	
Screened Interval (ft):	26-31	Principal Aquifer :	Till
L.S. Elevation (ft)	1459.31		

## Lithologic Log

Unit	Description	Depth (ft)
see log for 07AAA1		

**154-065-07CDD**

NDSWC 8874

Date Completed:	9/5/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	130-133	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1473.52		

**154-065-10BBB**

NDSWC 9021

Date Completed:	8/13/74	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1489		

**154-065-10CCC**

NDSWC 9023

Date Completed:	8/13/74	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1467		

**154-065-11CCD**

Channel.A

Date Completed:		Well Type:	water quality
Depth Drilled (ft):		Source of Data:	
Screened Interval (ft):		Principal Aquifer :	Devils Lake basin
L.S. Elevation (ft)			

**154-065-11CCD1**

NDSWC 12042A

Date Completed:	9/22/87	Well Type:	2 inch PVC
Depth Drilled (ft):	90	Source of Data:	
Screened Interval (ft):	70.5-80.5	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1448.8		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, greasy, oxidized	1-11
CLAY	olive gray, silty	11-21
CLAY	olive gray, silty, sandy with pebbles till	21-42
GRAVEL	shale	42-43
CLAY	olive gray till as above	43-46
GRAVEL	layered with till	46-49
CLAY	olive gray till as above	49-66
CLAY	till as above layer with sand and gravel	66-73
SHALE	black, layered with black to gray clays, bedrock, Pierre Shale	73-90

**154-065-11CCD2**

NDSWC 12042B

Date Completed:	9/22/87	Well Type:	2 inch PVC
Depth Drilled (ft):	49	Source of Data:	
Screened Interval (ft):	35-45	Principal Aquifer :	Till
L.S. Elevation (ft)	1449.2		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, oxidized	1-11
CLAY	olive gray, very silty	11-21
CLAY	olive gray, silty sandy with pebbles, till	21-47
CLAY	till as above, small stringers of gravel	47-49

**154-065-11CCD3**

NDSWC 12042C

Date Completed:	9/22/87	Well Type:	2 inch PVC
Depth Drilled (ft):	17	Source of Data:	
Screened Interval (ft):	5-15	Principal Aquifer :	Lake Clay
L.S. Elevation (ft)	1448.9		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty	1-11
CLAY	olive gray, very silty	11-17

**154-065-12CCC**

NDSWC 9020

Date Completed:	8/13/74	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1468		

**154-065-13BCC**

NDSWC 4X

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	57	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		

**154-065-14CCC**

NDSWC 8871

Date Completed:	8/31/73	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	14350		

**154-065-15CCC**

NDSWC 8872

Date Completed:	9/4/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	445	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	300-303	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1475		

**154-065-17AAA**

NDSWC 9024

Date Completed:	8/12/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	160	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	133-136	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1467.78		

**154-065-17DDA**

NDSWC 9025

Date Completed:	8/13/74	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1478		

**154-065-21CCC**

NDSWC 8873

Date Completed:	9/5/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	160	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	130-133	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1471.23		

**154-065-23BAA**

NDSWC 6X

Date Completed:	1/1/48	Well Type:	
Depth Drilled (ft):	47	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		

**154-065-23CAC**

NDSWC 11869

Date Completed:	9/12/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	10-15	Principal Aquifer :	Till
L.S. Elevation (ft)	1445.71		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, oxidized, silty, sandy, with pebbles and cobbles. till	1-111
CLAY	olive gray, silty, very sandy with pebbles, till	11-20

**154-065-23DAA**

NDSWC 7X

Date Completed:	1/1/48	Well Type:	
Depth Drilled (ft):	129	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		

**154-065-24BBB**

NDSWC 5X

Date Completed:	1/1/48	Well Type:	
Depth Drilled (ft):	45	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		

**154-065-25BBB**

NDSWC 9019

Date Completed:	8/13/74	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1467		

**154-065-28DAA1**

NDSWC 12045A

Date Completed:	9/24/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	244	Source of Data:	
Screened Interval (ft):	218-223	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1449.2		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, oxidized, silty, sandy with pebbles, rocky till, 17 to 18 feet, shale gravel	1-21
CLAY	yellowish brown, iron stained, very silty, drills smooth, oxidized	21-36
CLAY	olive gray, silty, very sandy, poorly sorted, rocky till	36-38
GRAVEL	iron stained, pea to 1 inch diameter gravel	38-48
CLAY	olive gray, sticky, drills slow, some silt	48-107
CLAY	olive gray, very fine sand, drills much faster and rig rattles, very silty	107-127
CLAY	olive gray, greasy, drills tight	127-165
SHALE	black, brittle, rig chatters through out most of section, inter bedded with black very sandy clay, shale drills as if fractured, shale fragments are angular	165-193
GRAVEL	pea to marble size, well rounded to subrounded, rough drilling, interbedded with shale and clay layers, gravel is 80 % shale, 10 % carbonates, remainder is quartz	193-240
CLAY	olive gray, blackish	240-244

**154-065-28DAA2**

NDSWC 12045B

Date Completed:	9/24/87	Well Type:	2 inch PVC
Depth Drilled (ft):	49	Source of Data:	
Screened Interval (ft):	35.5-45.5	Principal Aquifer :	Gravel Sediments
L.S. Elevation (ft)	1449.4		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, iron stained, oxidized till	1-38
GRAVEL	oxidized, iron stained, pea to marble size gravel, well rounded to subrounded, taking water, rock at 48 feet, broke off bit at 49 feet, completed a shallow well in gravel	38-49

**154-065-28DAA3**

NDSWC 12045C

Date Completed:	9/24/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	180	Source of Data:	
Screened Interval (ft):	173-178	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1449.4		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, oxidized, silty, sandy, with pebbles, poorly sorted, rocky till	1-38
GRAVEL	rocky, oxidized, iron stained, well rounded to subrounded, taking water, pea to marble size gravel	38-48
CLAY	olive gray, slightly silty, greasy on surface, crumbles when broken	48-167
GRAVEL	shale, some lignites, 80 to 90 % shale, taking water well rounded to angular	167-180

**154-065-28DAA4**

NDSWC 12045D

Date Completed:	9/24/87	Well Type:	2 inch PVC
Depth Drilled (ft):	80	Source of Data:	
Screened Interval (ft):	73-78	Principal Aquifer :	Lake Clay
L.S. Elevation (ft)	1449.8		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till	1-35
CLAY	olive gray, silty, drills smooth	35-37
GRAVEL	iron stained, oxidized, sandy, taking water	37-48
CLAY	olive gray, silty, drills smooth	48-80

**154-065-28DAB**

NDSWC 8975

Date Completed:	6/27/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	402	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	257-263	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1461.2		

**154-065-28DCD**

NDSWC 8974

Date Completed:	6/27/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	182	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	117-120	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1446.83		

**154-065-28DDA**

NDSWC 8976

Date Completed:	6/28/74	Well Type:	
Depth Drilled (ft):	342	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1425		

**154-065-28DDA1**

NDSWC 12044A

Date Completed:	9/23/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	
Screened Interval (ft):	178-183	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1446.8		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	black very silty sandy	0-1
CLAY	yellowish brown, silty, oxidized	1-4
CLAY	yellowish brown, iron stained, silty, sandy with pebbles, oxidized till, whitish gray till from 6 to 12 feet	4-35
CLAY	olive gray, silty, sandy with pebbles, till	35-38
CLAY	very silty, crumbles, olive gray, from 60 to 61 feet there is lignite in clay	38-61
CLAY	olive gray, poorly sorted till	61-82
GRAVEL	70 % shale, well rounded, 80 % gravel, 20 % coarse to very coarse sand some interbeds of till	82-87
CLAY	till as above	87-127
SHALE	black, brittle, drills slow, interbedded with bedrock clays, Pierre Shale	127-169
SHALE	black, not as brittle, interbedded with blackish clays, Drills very slow, Pierre Shale	160-200

**154-065-31AAA**

NDSWC 11798

Date Completed:	6/25/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	14-19	Principal Aquifer :	Till
L.S. Elevation (ft)	1457.64		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	fill	0-1
CLAY	olive gray till	1-4
CLAY	yellowish brown, iron stained, silty sandy with pebbles, till	4-13
CLAY	olive gray, silty, sandy with pebbles, unoxidized till	13-20

**154-065-32CCC**

NDSWC 8879

Date Completed:	9/6/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	140-143	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1455		

**154-065-33AAA**

NDSWC 11801

Date Completed:	6/25/86	Well Type:	1.25 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	30-35	Principal Aquifer :	Till
L.S. Elevation (ft)	1440.64		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized till	1-12
SAND & GRAVEL	shale, oxidized	12-13
TILL	as above, oxidized	13-18
SAND	very fine to fine, oxidized, lignitic	18-25
TILL	as above oxidized	25-29
CLAY	olive gray till not oxidized	29-31
GRAVEL	90 % shale	31-32
TILL	clay, unoxidized, abundant shale pebbles	32-40

**154-065-33AAB**

NDSWC 187

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	110	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1439		

**154-065-33AAD**

NDSWC 186

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	215	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1417		

**154-065-34BCD**

NDSWC 185

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	350	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1450		

**154-065-34CCD**

NDSWC 184

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1452		

**154-065-35AAA**

NDSWC 8863

Date Completed:	8/28/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	200	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	140-143	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1474.42		

**154-065-35BBB**

NDSWC 9018

Date Completed:	8/12/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	160	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	124-127	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1470.41		

**154-065-35CCC**

NDSWC 183

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	155	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1472		

**154-065-36DDD**

NDSWC 181

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	125	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1470		

**154-066-01CCC**

NDSWC 8875

Date Completed:	9/5/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	240	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	160-163	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1455.55		

**154-066-05DDD**

NDSWC 8881

Date Completed:	9/6/73	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1444		

**154-066-09DDD**

NDSWC 9027

Date Completed:	8/13/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	78-81	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1442.92		

**154-066-15DDD**

NDSWC 8876

Date Completed:	9/5/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	77-80	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1440.46		

**154-066-17AAA**

NDSWC 11863

Date Completed:	9/11/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	13-18	Principal Aquifer :	Till
L.S. Elevation (ft)	1450		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy with pebbles till	1-16
CLAY	olive gray, silty, sandy with shale pebbles, till	16-20

**154-066-23CCC**

NDSWC 9026

Date Completed:	8/13/74	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1450		

**154-066-23DDD**

NDSWC 8877

Date Completed:	9/5/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	160	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	120-123	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1466.62		

**154-066-25DDA**

NDSWC 9044

Date Completed:	8/20/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	138-141	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1450.24		

**154-066-29AAA**

NDSWC 5485

Date Completed:	9/19/69	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1445		

**154-066-30DAD**

NDSWC 5486

Date Completed:	9/19/69	Well Type:	
Depth Drilled (ft):	5486	Source of Data:	Randich, 1971
Screened Interval (ft):	52-0	Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1445		

**154-066-32ACC**

NDSWC 359

Date Completed:	11/14/50	Well Type:	
Depth Drilled (ft):	175	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1472		

**154-066-32ADD**

NDSWC 11862

Date Completed:	9/11/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	10-15	Principal Aquifer :	Lake Clay
L.S. Elevation (ft)	1447.92		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	road fill	0-2
SAND	oxidized	2-3
CLAY	yellowish brown, iron stained, silty	3-16
CLAY	olive gray, silty, Lake Clays	16-20

**154-066-34ADC**

NDSWC 355

Date Completed:	11/2/50	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1434		

**154-066-34ADD1**

NDSWC 12034A

Date Completed:	9/3/87	Well Type:	2 inch PVC
Depth Drilled (ft):	75	Source of Data:	
Screened Interval (ft):	62-72	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1434		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	silty, yellowish brown, oxidized	1-9
CLAY	olive gray, silty, sandy with pebbles, unweathered till, interbedded with sandy clays and very fine to fine sand	9-57
SHALE	black, brittle, mixed with black clays, Pierre Shale	57-75

**154-066-34ADD2**

NDSWC 12034B

Date Completed:	9/3/87	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	35-40	Principal Aquifer :	Till
L.S. Elevation (ft)	1434.8		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, slightly silty, greasy	1-9
CLAY	olive gray, silty, sandy with pebbles, till	9-40

**154-066-34ADD3**

NDSWC 12934C

Date Completed:	9/3/87	Well Type:	2 inch PVC
Depth Drilled (ft):	15	Source of Data:	
Screened Interval (ft):	3-13	Principal Aquifer :	Till
L.S. Elevation (ft)	1434.7		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized	1-9
CLAY	olive gray, silty, sandy with pebbles, till	9-15

**154-066-34ADD4**

NDSWC 12046

Date Completed:	9/24/87	Well Type:	2 inch PVC
Depth Drilled (ft):	70	Source of Data:	
Screened Interval (ft):	58-68	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1435		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, very silty, oxidized	1-11
CLAY	olive gray, silty, sandy with pebbles, interbedded with sandy clays, till	11-57
SAND	very fine to fine, mostly shale	57-62
SHALE	black, brittle, angular, Pierre Shale	62-70

**154-066-35BCA**

NDSWC 356

Date Completed:	11/14/50	Well Type:	
Depth Drilled (ft):	115	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1442		

**154-066-36AAA**

NDSWC 357

Date Completed:	1/14/50	Well Type:	
Depth Drilled (ft):	146	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		

**154-066-36DCD**

NDSWC 8878

Date Completed:	9/6/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	97-100	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1454.61		

**154-067-02DDD**

NDSWC 353

Date Completed:	10/31/50	Well Type:	
Depth Drilled (ft):	95	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1444		

**154-067-03CCC**

NDSWC 5488

Date Completed:	9/22/69	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Randich, 1971
Screened Interval (ft):	97-103	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1448.42		

**154-067-06CCC**

NDSWC 5073

Date Completed:	7/30/68	Well Type:	
Depth Drilled (ft):	220	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1572		

**154-067-11DDD1**

NDSWC 2880A

Date Completed:	10/23/67	Well Type:	1.25 inch PVC
Depth Drilled (ft):	120	Source of Data:	Randich, 1971
Screened Interval (ft):	75-80	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1456.83		

**154-067-11DDD2**

BP68-1

Date Completed:	1/1/69	Well Type:	
Depth Drilled (ft):	70	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1460		

**154-067-12BBC1**

NDSWC 12035A

Date Completed:	9/3/87	Well Type:	2 inch PVC
Depth Drilled (ft):	100	Source of Data:	
Screened Interval (ft):	92-97	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1439.9		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, sandy, with pebbles, poorly sorted, oxidized till	1-7
GRAVEL	oxidized	7-9
CLAY	olive gray, silty, sandy with pebbles, rocky, till interbedded with shale gravel	9-36
GRAVEL	sandy, very coarse sand to pea gravel 80 % gravel, well rounded to subrounded, mostly shale and quartz, caving badly, taking water	36-44
CLAY	olive gray, silty, very sandy, till interbedded with shale gravels and sandy clays	44-86
SHALE	black, brittle, interbedded with black silty clays (Pierre shale)	86-100

**154-067-12BBC2**

NDSWC 12035B

Date Completed:	9/3/87	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	33-38	Principal Aquifer :	Till
L.S. Elevation (ft)	1440.2		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	silty, olive gray, some pebbles	1-9
CLAY	olive gray, silty, sandy with pebbles, poorly sorted, interbedded with sandy clays and gravel layers, till	9-40

**154-067-12BBC3**

NDSWC 12035C

Date Completed:	9/3/87	Well Type:	2 inch PVC
Depth Drilled (ft):	15	Source of Data:	
Screened Interval (ft):	3-13	Principal Aquifer :	Till
L.S. Elevation (ft)	1440.7		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained silty	1-10
CLAY	olive gray, silty sandy with pebbles, till	10-15

**154-067-12DDD**

NDSWC 5487

Date Completed:	9/19/69	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1460		

**154-067-15BBB**

NDSWC 5658

Date Completed:	5/21/70	Well Type:	1.25 inch PVC
Depth Drilled (ft):	180	Source of Data:	Randich, 1971
Screened Interval (ft):	147-153	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1474.8		

**154-067-15CCB**

NDSWC 5072

Date Completed:	7/30/68	Well Type:	
Depth Drilled (ft):	150	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1482		

**154-067-20DCC**

NDSWC 5492

Date Completed:	9/23/69	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1470		

**154-067-26BAA**

NDSWC 5659

Date Completed:	5/22/70	Well Type:	1.25 inch PVC
Depth Drilled (ft):	180	Source of Data:	Randich, 1971
Screened Interval (ft):	137-143	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1448.3		

**154-067-26BAA2**

NDSWC 12036

Date Completed:	9/9/87	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	8-18	Principal Aquifer :	Till
L.S. Elevation (ft)	1447.8		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-2
CLAY	yellowish brown, silty, iron stained, oxidized Lake Clays	2-13
CLAY	olive gray, silty, unoxidized Lake Clays	13-15
CLAY	olive gray, silty, sandy with pebbles, till	15-20

**154-067-32AAA**

NDSWC 11861

Date Completed:	9/11/86	Well Type:	2 inch PVC
Depth Drilled (ft):	55	Source of Data:	
Screened Interval (ft):	47-52	Principal Aquifer :	Till
L.S. Elevation (ft)	1500		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
SAND	gravel, oxidized	1-8
CLAY	yellowish brown, oxidized, iron stained, silty, sandy	8-11
CLAY	yellowish brown, silty, sandy with shale pebbles, till, oxidized	11-21
CLAY	yellowish brown, oxidized, silty, drills smooth, occasional 1/2 foot stringer of sand	21-30
GRAVEL	oxidized, poor return	30-31
TILL	oxidized	31-37
CLAY	silty, olive gray, cohesive	47-53
CLAY	olive gray, silty, with pebbles, till	53-55

**154-067-35ADD1**

NDSWC 34

Date Completed:	8/16/46	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1436		

**154-067-35ADD2**

NDSWC 31

Date Completed:	8/16/46	Well Type:	
Depth Drilled (ft):	150	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1435		

**154-067-35ADD3**

NDSWC 12033A

Date Completed:	9/2/87	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	
Screened Interval (ft):	125-130	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1434.6		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, silty, oxidized	1-17
CLAY	olive gray, silty, unoxidized	17-48
CLAY	olive gray, silty sandy with gravel layers, till interbedded with shale gravel and sandy clay	48-94
GRAVEL	sandy, interbedded with sandy clays	94-106
GRAVEL	sandy, pea to marble size gravel, well rounded to angular, 60 % shale, taking water, rocky from 130 to 136 feet	106-136
CLAY	gray to black, very sandy, abundant shale pebbles, till, rocks and gravel caving in	136-140

**154-067-35ADD4**

NDSWC 12033B

Date Completed:	9/2/87	Well Type:	2 inch PVC
Depth Drilled (ft):	80	Source of Data:	
Screened Interval (ft):	75-80	Principal Aquifer :	Till
L.S. Elevation (ft)	1434.9		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, silty, Lake Clays	1-17
CLAY	olive gray, silty, Lake Clays	17-49
CLAY	olive gray, silty, sandy with pebbles till	49-68
GRAVEL	shale	68-71
CLAY	olive gray, silty, sandy with pebbles, poorly sorted, till	71-80

**154-067-35ADD5**

NDSWC 12033C

Date Completed:	9/3/87	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	34-39	Principal Aquifer :	Lake Clay
L.S. Elevation (ft)	1435		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	olive gray	1-4
CLAY	yellowish brown, iron stained, oxidized, greasy Lake Clays	4-17
CLAY	as above, olive gray, unoxidized, Lake Clays	17-40

**154-067-35ADD6**

NDSWC 12033D

Date Completed:	9/3/87	Well Type:	2 inch PVC
Depth Drilled (ft):	15	Source of Data:	
Screened Interval (ft):	4-14	Principal Aquifer :	Till
L.S. Elevation (ft)	1435		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, oxidized, Lake Clays	1-15

**154-067-36BCC**

NDSWC 33

Date Completed:	8/16/46	Well Type:	
Depth Drilled (ft):	200	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1434		

**154-067-36DAA**

NDSWC 32

Date Completed:	8/17/46	Well Type:	
Depth Drilled (ft):	126	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1439		

**154-068-01AAA**

NDSWC 5657

Date Completed:	5/21/70	Well Type:	
Depth Drilled (ft):	230	Source of Data:	Randich, 1971
Screened Interval (ft):	197-203	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1557.32		

**154-068-19AAA**

NDSWC 5509

Date Completed:	9/26/69	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1582		

**154-068-27AAA**

NDSWC 5071

Date Completed:	7/29/68	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1560		

**155-061-01DDD**

NDSWC 8034

Date Completed: 1/1/71      Well Type:  
 Depth Drilled (ft): 60      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1501      No Obs Well

**155-061-06CCC**

NDSWC 9090

Date Completed: 9/9/74      Well Type:  
 Depth Drilled (ft): 80      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1496      No Obs Well

**155-061-10DDC**

NDSWC 8035

Date Completed: 1/1/71      Well Type:  
 Depth Drilled (ft): 40      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1552      No Obs Well

**155-061-23CCD**

NDSWC 8799

Date Completed: 8/2/73      Well Type:  
 Depth Drilled (ft): 69      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1518      No Obs Well

**155-061-23DCA**

NDSWC AF 2033

Date Completed: 1/1/62      Well Type:  
 Depth Drilled (ft): 130      Source of Data:  
 Screened Interval (ft): 0-130      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1526      Pierre Shale

**155-061-23DCC**

NDSWC AF 33

Date Completed: 1/1/62      Well Type:  
 Depth Drilled (ft): 130      Source of Data:  
 Screened Interval (ft): 0-130      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1526      Pierre Shale

**155-061-33BBB**

NDSWC 8798

Date Completed: 8/2/73      Well Type:  
 Depth Drilled (ft): 60      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1515      No Obs Well

**155-062-04CCC**

NDSWC 9089

Date Completed: 9/9/74      Well Type:  
 Depth Drilled (ft): 80      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1490      No Obs Well

**155-062-05AAB**

NDSWC AF 44-1

Date Completed: 1/1/62      Well Type:  
 Depth Drilled (ft): 130      Source of Data:  
 Screened Interval (ft): 0-130      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1487      Pierre Shale

**155-062-06AAA**

NDSWC 9088

Date Completed:	9/9/74	Well Type:	
Depth Drilled (ft):	220	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1475		

**155-062-06DDD**

NDSWC 8792

Date Completed:	8/1/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	280	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	177-183	Principal Aquifer :	Starkweather Aquifer
L.S. Elevation (ft)	1475		

**155-062-15CCC**

NDSWC 8796

Date Completed:	8/2/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1495		

**155-062-18AAA**

NDSWC 9087

Date Completed:	9/6/74	Well Type:	
Depth Drilled (ft):	520	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1475		

**155-062-18AAA2**

NDSWC 9087A

Date Completed:	9/6/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	160	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	138-141	Principal Aquifer :	Starkweather Aquifer
L.S. Elevation (ft)	1475		

**155-062-25DDB**

AF 2036

Date Completed:	1/1/62	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-130	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1532		

**155-062-27DAA**

NDSWC 8797

Date Completed:	8/2/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1510		

**155-062-30AAA**

NDSWC 9086

Date Completed:	9/5/74	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1477		

**155-063-06DDD**

NDSWC 146

Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	110	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1476		

<b>155-063-07DDD</b>			
NDSWC 147			
Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	50	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1468		
<b>155-063-13BBB</b>			
NDSWC 8793			
Date Completed:	8/1/73	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		
<b>155-063-15BBB</b>			
NDSWC 8794			
Date Completed:	8/1/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1478		
<b>155-063-17BBB</b>			
NDSWC 9083			
Date Completed:	9/5/74	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1482		
<b>155-063-18DDD</b>			
NDSWC 121			
Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	110	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		
<b>155-063-19CDD</b>			
NDSWC 123			
Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1464		
<b>155-063-19DDC</b>			
NDSWC 9082			
Date Completed:	9/5/74	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		
<b>155-063-19DDD</b>			
NDSWC 122			
Date Completed:	1/1/49	Well Type:	
Depth Drilled (ft):	70	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		
<b>155-063-21DCC</b>			
NDSWC 120			
Date Completed:	50	Well Type:	
Depth Drilled (ft):		Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1463		

**155-063-22CCC**

NDSWC 9084

Date Completed:	9/5/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	62-71	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1474		

**155-063-23DDA**

NDSWC 9085

Date Completed:	9/5/74	Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1475		

**155-063-25AAA**

NDSWC 8795

Date Completed:	8/1/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	385	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	220-223	Principal Aquifer :	Starkweather Aquifer
L.S. Elevation (ft)	1476.3		

**155-063-27BBB**

NDSWC 119

Date Completed:		Well Type:	
Depth Drilled (ft):	135	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1473		

**155-063-29ABA**

NDSWC 124

Date Completed:	1949	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1462		

**155-063-29CCC**

NDSWC 125

Date Completed:		Well Type:	
Depth Drilled (ft):	90	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1462		

**155-064-01BBB**

NDSWC 9055

Date Completed:		Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1467		

**155-064-03AAA**

NDSWC 8820

Date Completed:	8/8/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	77-80	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1461.8		

**155-064-03CCC**

NDSWC 9053

Date Completed:		Well Type:	
Depth Drilled (ft):	0	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	112-0	Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1459		

**155-064-05BBB**

NDSWC 9043

Date Completed:		Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1462		

**155-064-07DDD**

NDSWC 8841

Date Completed:		Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1474		

**155-064-09DAD**

NDSWC 141

Date Completed:		Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1458		

**155-064-10ADA**

NDSWC 142

Date Completed:		Well Type:	
Depth Drilled (ft):	104	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1463		

**155-064-10DDD**

NDSWC 148

Date Completed:		Well Type:	
Depth Drilled (ft):	108	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1463		

**155-064-11AAD1**

NDSWC 144

Date Completed:		Well Type:	
Depth Drilled (ft):	58	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1462		

**155-064-11BDA**

NDSWC 143

Date Completed:		Well Type:	
Depth Drilled (ft):	40	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1465		

**155-064-12ADA**

NDSWC 145

Date Completed:		Well Type:	
Depth Drilled (ft):	107	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1469		

**155-064-16BBA**

NDSWC 150

Date Completed:		Well Type:	
Depth Drilled (ft):	70	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1472		

**155-064-21AAA**

NDSWC 140

Date Completed:		Well Type:	
Depth Drilled (ft):	430	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1474		

**155-064-22CCC**

NDSWC 137

Date Completed:		Well Type:	
Depth Drilled (ft):	30	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1481		

**155-064-22CDD**

NDSWC 139

Date Completed:		Well Type:	
Depth Drilled (ft):	40	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1480		

**155-064-22DDC**

NDSWC 138

Date Completed:		Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1471		

**155-064-23DAA**

NDSWC 149

Date Completed:		Well Type:	
Depth Drilled (ft):	50	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1461		

**155-064-27AAB**

NDSWC 9075

Date Completed:	9/4/74	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1498		

**155-064-27CCC**

NDSWC 136

Date Completed:		Well Type:	
Depth Drilled (ft):	30	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1500		

**155-064-29BBB**

NDSWC 8839

Date Completed:	8/15/73	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1475		

**155-064-34ACC**

NDSWC 205

Date Completed:		Well Type:	
Depth Drilled (ft):	145	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1464		

**155-064-34BCD**  
NDSWC 201

Date Completed:		Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1474		

**155-064-34BDD2**  
NDSWC 204

Date Completed:		Well Type:	
Depth Drilled (ft):	150	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1472		

**155-064-34BDD3**  
NDSWC 199

Date Completed:		Well Type:	
Depth Drilled (ft):	135	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1463		

**155-064-34BDD4**  
NDSWC 198

Date Completed:		Well Type:	
Depth Drilled (ft):	135	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1462		

**155-064-34CCC**  
NDSWC 159

Date Completed:		Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1490		

**155-064-34DCD**  
NDSWC 202

Date Completed:		Well Type:	
Depth Drilled (ft):	65	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1470		

**155-064-34DDC**  
NDSWC 151

Date Completed:		Well Type:	
Depth Drilled (ft):	75	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1458		

**155-064-35ADC**  
NDSWC 155

Date Completed:		Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1463		

**155-064-35BAB**  
NDSWC 154

Date Completed:		Well Type:	
Depth Drilled (ft):	125	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1462		

**155-064-35BCD**

NDSWC 153

Date Completed:		Well Type:	
Depth Drilled (ft):	86	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1458		

**155-064-35CCD**

NDSWC 9076

Date Completed:		Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1463		

**155-064-35CDC**

NDSWC 152

Date Completed:		Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1463		

**155-065-08DDD**

NDSWC 8831

Date Completed:	8/14/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	47-50	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1456.4		

**155-065-18AAA**

NDSWC 11800

Date Completed:	6/25/86	Well Type:	2 inch PVC
Depth Drilled (ft):	32	Source of Data:	
Screened Interval (ft):	26-31	Principal Aquifer :	Till
L.S. Elevation (ft)	1461.37		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, oxidized, silty sandy with pebbles, till	1-22
CLAY	till as above, unoxidized, interbedded with shale gravel	22-32

**155-065-20CCC**

NDSWC 8832

Date Completed:	8/14/73	Well Type:	
Depth Drilled (ft):	300	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1452		

**155-065-23AAA**

NDSWC 8840

Date Completed:	8/15/73	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1461		

**155-065-28AAA**

NDSWC 8833

Date Completed:	8/14/73	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1474		

**155-065-29AAA2**

NDSWC 9031

Date Completed:	8/14/74	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1462		

**155-065-30BBB**

NDSWC 9030

Date Completed:	8/14/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	98-101	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1456.11		

**155-065-32BBB**

NDSWC 11865

Date Completed:	9/11/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	13-18	Principal Aquifer :	Till
L.S. Elevation (ft)	1454.74		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, greasy	1-12
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till	12-16
CLAY	till as above, olive gray, unoxidized	16-20

**155-065-35BAC**

NDSWC 651

Date Completed:		Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1585		

**155-065-35CCC**

NDSWC 9022

Date Completed:		Well Type:	
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1478		

**155-065-35DDD**

NDSWC 11866

Date Completed:	9/11/86	Well Type:	2 inch PVC
Depth Drilled (ft):	20	Source of Data:	
Screened Interval (ft):	13-18	Principal Aquifer :	Till
L.S. Elevation (ft)	1465.55		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	blackish gray, greasy, fill	1-7
CLAY	yellowish brown, silty, oxidized	7-11
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till, iron stained	11-13
CLAY	olive gray, silty, sandy with pebbles, till	13-20

**155-065-36CAB**

NDSWC 11867

Date Completed:	9/11/86	Well Type:	2 inch PVC
Depth Drilled (ft):	40	Source of Data:	
Screened Interval (ft):	31.5-36.5	Principal Aquifer :	Gravel Sediments
L.S. Elevation (ft)	1476.49		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	fill	0-1
CLAY	yellowish brown, silty, sandy with pebbles, oxidized till	1-27
CLAY	olive gray, silty, sandy with pebbles, unoxidized	26-27
GRAVEL	shale, well rounded to subrounded, medium sand to pea to marble size gravel, drills fast and taking water	27-40

**155-065-36CAB2**

NDSWC 12043A

Date Completed:	9/22/87	Well Type:	2 inch PVC
Depth Drilled (ft):	80	Source of Data:	
Screened Interval (ft):	73-78	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1476.8		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL	fill	0-1
CLAY	yellowish brown, iron stained, silty, sandy with pebbles, poorly sorted, oxidized till	1-10
CLAY	olive gray, silty, unoxidized	10-12
CLAY	oxidized, till as above	12-26
CLAY	olive gray, silty, sandy with pebbles, unoxidized till	26-31
GRAVEL	shale, sandy, well rounded to subrounded, taking water, very coarse sand to marble size gravel, from 31 to 41 feet the gravel is interbedded with clay	31-56
CLAY	whitish gray, bentonitic, drills tight, interbedded with blackish greasy clay and hard black shale ( Pierre Shale)	56-80

**155-065-36CAB3**

NDSWC 12043B

Date Completed:	9/22/87	Well Type:	2 inch PVC
Depth Drilled (ft):	60	Source of Data:	
Screened Interval (ft):	46-51	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1476.6		

**Lithologic Log**

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, oxidized till, from 10 to 12 feet there are layers of grayish till	1-26
CLAY	olive gray, silty, sandy with pebbles, layered with shale gravel	26-33
GRAVEL	shale, poor return	33-37
CLAY	till as above	37-41
GRAVEL	shale, well rounded to subrounded, very coarse sand to pea gravel	41-58
CLAY	whitish gray, silty, shale	58-60

**155-066-02CCC**

NDSWC 8830

Date Completed:	8/13/73	Well Type:	
Depth Drilled (ft):	320	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1450		

**155-066-03BBB**

NDSWC 9037

Date Completed:	8/16/74	Well Type:	
Depth Drilled (ft):	340	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1447		

**155-066-04BAB**

NDSWC 9036

Date Completed:	8/16/74	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1450		

**155-066-04CCC**

NDSWC 9035

Date Completed:	8/15/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	240	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	138-141	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1449.95		

**155-066-07AAA**

NDSWC 347

Date Completed:		Well Type:	
Depth Drilled (ft):	150	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1447		

**155-066-09AAA**

NDSWC 9034

Date Completed:	8/15/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	180	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	118-121	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1447.27		

**155-066-11AAA**

NDSWC 9033

Date Completed:	8/15/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	260	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	281-284	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1453		

**155-066-13CCC**

NDSWC 9032

Date Completed:	8/15/74	Well Type:	
Depth Drilled (ft):	200	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1457		

**155-066-21ABA**

NDSWC 8883

Date Completed:	1973	Well Type:	
Depth Drilled (ft):	20	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	220-223	Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1461		

**155-066-26CCC2**

NDSWC 8882

Date Completed:	9/6/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Spiritwood aquifer
L.S. Elevation (ft)	1455		

**155-066-29CCC**

NDSWC 8882

Date Completed:	9/6/73	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1455		

**155-066-32AAA**

NDSWC 9029

Date Completed:	8/14/74	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1472		

**155-066-33BBC**

NDSWC 11864

Date Completed:	9/11/86	Well Type:	2 inch PVC
Depth Drilled (ft):	36	Source of Data:	
Screened Interval (ft):	29-34	Principal Aquifer :	Till
L.S. Elevation (ft)	1476.03		

## Lithologic Log

Unit	Description	Depth (ft)
TOPSOIL		0-1
CLAY	yellowish brown, iron stained, oxidized, silty, sandy with pebbles, till	1-29
CLAY	olive gray, till as above, unoxidized	29-36

**155-066-34CCC**

NDSWC 9028

Date Completed:	8/14/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	160	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	118-121	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1461.41		

**155-067-01DDD**

NDSWC 346

Date Completed:	10/25/50	Well Type:	
Depth Drilled (ft):	110	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1459		

**155-067-03DDD**

NDSWC 349

Date Completed:	10/25/50	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1457		

**155-067-05AAA**

NDSWC 5660

Date Completed:	5/25/70	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1480		

**155-067-07CCC1**

NDGS BP67-70

Date Completed:	1967	Well Type:	
Depth Drilled (ft):	34	Source of Data:	Randich, 1971
Screened Interval (ft):	24-26	Principal Aquifer :	Unnamed
L.S. Elevation (ft)	1521.43		

**155-067-07CCC2**

NDSWC 5655

Date Completed:	5/21/70	Well Type:	
Depth Drilled (ft):	200	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1490		

**155-067-11AAA**

NDSWC 348

Date Completed:	10/24/50	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1452		

**155-067-14CDD**

NDSWC 350

Date Completed:	10/25/50	Well Type:	
Depth Drilled (ft):	130	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1450		

**155-067-26AAA**

NDSWC 352

Date Completed:	10/30/50	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1452		

**155-067-26DDC**

NDSWC 351

Date Completed:	10/27/50	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1450		

**155-067-28CCC**

NDSWC 5489

Date Completed:	9/22/69	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1485		

**155-067-30CCC**

NDSWC 5074

Date Completed:	7/30/68	Well Type:	
Depth Drilled (ft):	220	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1540		

**155-068-06AAA**

NDSWC 1300

Date Completed:	5/8/58	Well Type:	
Depth Drilled (ft):	178	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1499		

**155-068-08BBB**

NDSWC 1302

Date Completed:	5/9/58	Well Type:	
Depth Drilled (ft):	178	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1546		

**155-068-08CCC**

NDSWC 1303

Date Completed:	5/9/58	Well Type:	
Depth Drilled (ft):	178	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1500		

**155-068-11AAA**

NDSWC 5654

Date Completed:	5/20/70	Well Type:	
Depth Drilled (ft):	200	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1500		

**155-068-15CCC**

NDSWC 5491

Date Completed:	9/23/69	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1505		

**155-068-19AAA**

NDSWC 1304

Date Completed:	5/10/58	Well Type:	
Depth Drilled (ft):	199.5	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	0		

**155-068-20CCC**

NDSWC 1305

Date Completed:	5/19/58	Well Type:	
Depth Drilled (ft):	147	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	0		

**155-068-23ABA**

NDSWC 5490

Date Completed:	9/23/69	Well Type:	
Depth Drilled (ft):	300	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1495		

**155-068-25AAA**

NDSWC 5656

Date Completed:	5/21/70	Well Type:	
Depth Drilled (ft):	220	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1550		

**156-061-06ADA**

USAF 46

Date Completed:		Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1512		

**156-061-06ADB**

USAF 2046

Date Completed:		Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1512		

**156-061-11AAA**

NDSWC 8031

Date Completed:		Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1513		

**156-061-19AAA**

NDSWC 8765

Date Completed:	7/23/73	Well Type:	
Depth Drilled (ft):	40	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1504		

**156-061-23BBB**

NDSWC 8030

Date Completed:		Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1516		

**156-061-27CDC**

USAF 2034

Date Completed:		Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1508		

**156-061-27CDD**

USAF 34

Date Completed:		Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1517		

**156-061-34AAA**

NDSWC 8029

Date Completed:	7/20/71	Well Type:	1.25 inch PVC
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	15-18	Principal Aquifer :	Gravel sediments
L.S. Elevation (ft)	1507		

**156-061-35AAA1**

NDSWC 5987

Date Completed:		Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1502		

**156-061-35AAA2**

NDSWC 5987-A

Date Completed:	6/17/71	Well Type:	1.25 inch PVC
Depth Drilled (ft):	20	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	11-14	Principal Aquifer :	sane sediments
L.S. Elevation (ft)	1502		

**156-061-35ABB**

NDSWC 5988

Date Completed:		Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	1501	Principal Aquifer :	No Obs Well
L.S. Elevation (ft)			

**156-061-36BAB**

NDSWC 5989

Date Completed:		Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	1502	Principal Aquifer :	No Obs Well
L.S. Elevation (ft)			

**156-061-36BBB**

NDSWC 5986

Date Completed:		Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	1505	Principal Aquifer :	No Obs Well
L.S. Elevation (ft)			

**156-061-36DDD**

NDSWC 5999

Date Completed:		Well Type:	
Depth Drilled (ft):	40	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	1501	Principal Aquifer :	No Obs Well
L.S. Elevation (ft)			

**156-062-10AAA**

NDSWC 8766

Date Completed:	7/23/73	Well Type:	
Depth Drilled (ft):	40	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	8766	Principal Aquifer :	No Obs Well
L.S. Elevation (ft)			

**156-062-17B**

Edmore Coulee

Date Completed:		Well Type:	water quality
Depth Drilled (ft):		Source of Data:	
Screened Interval (ft):		Principal Aquifer :	Devils Lake Basin
L.S. Elevation (ft)			

**156-062-20 BBB**

NDSWC 8791

Date Completed:	7/31/73	Well Type:	4 inch abs
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	48-58	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1495		

**156-062-27DCB**

USAF 2035

Date Completed:		Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1498		

**156-062-27DCC**

USAF 35

Date Completed:		Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1502		

**156-063-01CCC**

NDSWC 9060

Date Completed:	8/28/74	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1494		

**156-063-10CDD**

NDSWC 9058

Date Completed:	8/27/74	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	78-81	Principal Aquifer :	Starkweather
L.S. Elevation (ft)	1482		

**156-063-10DDD**

NDSWC 8790

Date Completed:	7/31/73	Well Type:	
Depth Drilled (ft):	400	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1485		

**156-063-11CDD**

NDSWC 9059

Date Completed:	8/27/74	Well Type:	
Depth Drilled (ft):	580	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1496		

**156-063-13AAB**

USAF 45

Date Completed:		Well Type:	
Depth Drilled (ft):	130	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	0-130	Principal Aquifer :	Pierre Shale
L.S. Elevation (ft)	1492		

**156-063-21AAA**

NDSWC 9057

Date Completed:	8/27/74	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1480		

**156-063-28BBB**

NDSWC 9056

Date Completed:	8/26/74	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1480		

**156-063-29CCC**

NDSWC 8821

Date Completed:	8/8/73	Well Type:	
Depth Drilled (ft):	60	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1471		

**156-064-11BBB**

NDSWC 8786

Date Completed: 7/26/73      Well Type:  
 Depth Drilled (ft): 60      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1484      No Obs Well

**156-064-19BCB**

Starkweather Coulee

Date Completed:      Well Type:  
 Depth Drilled (ft):      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : water quality  
 L.S. Elevation (ft)      Devils Lake Basin

**156-064-27DAD**

NDSWC 9054

Date Completed: 8/26/74      Well Type:  
 Depth Drilled (ft): 80      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1467      No Obs Well

**156-064-30BBB**

NDSWC 9042

Date Completed: 8/19/74      Well Type:  
 Depth Drilled (ft): 140      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1464      No Obs Well

**156-064-30DDD**

NDSWC 8822

Date Completed: 8/8/73      Well Type:  
 Depth Drilled (ft): 40      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1480      No Obs Well

**156-064-33CCC**

Webster. Coulee.

Date Completed: 0      Well Type:  
 Depth Drilled (ft): 0      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : water quality  
 L.S. Elevation (ft) 0      Devils Lake Basin

**156-065-02CCC**

NDSWC 8785

Date Completed: 7/26/73      Well Type:  
 Depth Drilled (ft): 100      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1451      No Obs Well

**156-065-15DDD**

NDSWC 9041

Date Completed: 8/19/74      Well Type:  
 Depth Drilled (ft): 100      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 1454      No Obs Well

**156-065-17CCB**

NDSWC 8824

Date Completed: 8/9/73      Well Type:  
 Depth Drilled (ft): 80      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Hutchinson, 1977  
 L.S. Elevation (ft) 14560      No Obs Well

**156-065-21AA**

St. Joe Coulee

Date Completed:		Well Type:	water quality
Depth Drilled (ft):		Source of Data:	
Screened Interval (ft):		Principal Aquifer :	Devils Lake Basin
L.S. Elevation (ft)			

**156-065-21ABB**

NDSWC 9039

Date Completed:	8/19/74	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1450		

**156-065-22DDD**

NDSWC 8823

Date Completed:	8/8/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	120	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	57-60	Principal Aquifer :	
L.S. Elevation (ft)	1451.88		

**156-065-28ADA**

NDSWC 9040

Date Completed:	8/19/74	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1462		

**156-066-08DDC**

NDSWC 8829

Date Completed:	8/13/73	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1445		

**156-066-11DDD**

NDSWC 8825

Date Completed:	8/9/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	57-60	Principal Aquifer :	Undefined
L.S. Elevation (ft)	1449		

## Lithologic Log

Unit	Description	Depth (ft)
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was 12CCC.

**156-066-12BBC**

NDSWC 8826

Date Completed:	8/9/73	Well Type:	
Depth Drilled (ft):	80	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1445		

**156-066-23DDD**

NDSWC 9038

Date Completed:	8/19/74	Well Type:	
Depth Drilled (ft):	100	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1445		

**156-066-30BBB**

NDSWC 8828

Date Completed:	8/10/73	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1455		

**156-066-31DDD**

NDSWC 8828

Date Completed:	8/10/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	140	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	100-103	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1446.68		

**156-066-34BBB**

NDSWC 8827

Date Completed:	8/9/73	Well Type:	1.25 inch PVC
Depth Drilled (ft):	474	Source of Data:	Hutchinson, 1977
Screened Interval (ft):	406-409	Principal Aquifer :	Spiritwood Aquifer
L.S. Elevation (ft)	1443		

**156-067-10AAB**

NDSWC 5075

Date Completed:	7/31/68	Well Type:	
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1469		

**156-067-17DDD**

NDSWC 5076

Date Completed:	7/31/68	Well Type:	1.25 inch abs
Depth Drilled (ft):	140	Source of Data:	Randich, 1971
Screened Interval (ft):	77-80	Principal Aquifer :	
L.S. Elevation (ft)	1488.22		

**156-067-36DDD**

NDSWC 345

Date Completed:		Well Type:	
Depth Drilled (ft):	100	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	0		

**156-068-07AAA**

NDSWC 1299

Date Completed:		Well Type:	
Depth Drilled (ft):	175	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1570		

**156-068-11AAA**

NDSWC 5077

Date Completed:	7/31/68	Well Type:	
Depth Drilled (ft):	160	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1570		

**156-068-16AAA**

NDSWC 5653

Date Completed:	5/20/70	Well Type:	
Depth Drilled (ft):	180	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1530		

**156-068-18AAA**

NDSWC 1298

Date Completed:	5/6/58	Well Type:	
Depth Drilled (ft):	210	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1562		

**156-068-19AAA**

NDSWC 1297

Date Completed:	5/5/58	Well Type:	
Depth Drilled (ft):	189	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1567		

**156-068-27CCC**

NDSWC 1308

Date Completed:	5/22/58	Well Type:	
Depth Drilled (ft):	199.5	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1511		

**156-068-27DDD1**

NDSWC 1309

Date Completed:	5/22/58	Well Type:	
Depth Drilled (ft):	147	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1532		

**156-068-27DDD2**

NDSWC 5652

Date Completed:	5/20/70	Well Type:	
Depth Drilled (ft):	260	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1528		

**156-068-29DDD**

NDSWC 1307

Date Completed:	5/20/58	Well Type:	
Depth Drilled (ft):	210	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1520		

**156-068-30ADD**

NDSWC 1296

Date Completed:	5/3/58	Well Type:	
Depth Drilled (ft):	220	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	1543		

**156-068-30BBB**

NDSWC 1311

Date Completed:	5/26/58	Well Type:	
Depth Drilled (ft):	189	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	No Obs Well
L.S. Elevation (ft)	0		

**156-068-30BCC**

NDSWC 1294

Date Completed:	4/29/58	Well Type:	
Depth Drilled (ft):	168	Source of Data:	Randich, 1971
Screened Interval (ft):		Principal Aquifer :	no obs well
L.S. Elevation (ft)			

**156-068-30CAA**

NDSWC 1312

Date Completed: 5/27/58      Well Type:  
 Depth Drilled (ft): 189      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Randich, 1971  
 L.S. Elevation (ft)      No Obs Well

**156-068-31AAA**

NDSWC 1306

Date Completed: 5/19/58      Well Type:  
 Depth Drilled (ft): 199.5      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Randich, 1971  
 L.S. Elevation (ft)      No Obs Well

**156-068-31ADC1**

Leeds 1

Date Completed:      Well Type:  
 Depth Drilled (ft): 1750      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Randich, 1971  
 L.S. Elevation (ft)      0      Dakota Group

## Lithologic Log

Unit	Description	Depth (ft)
no log		

**156-068-31ADC2**

Leeds 2

Date Completed:      Well Type:  
 Depth Drilled (ft): 1750      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Dakota Group  
 L.S. Elevation (ft)      0

## Lithologic Log

Unit	Description	Depth (ft)
no log		

**156-068-31BBA**

NDSWC 1301

Date Completed: 5/8/58      Well Type:  
 Depth Drilled (ft): 189      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Randich, 1971  
 L.S. Elevation (ft)      0      No Obs Well

**156-068-31BDD**

Leeds

Date Completed:      Well Type:  
 Depth Drilled (ft):      Source of Data:  
 Screened Interval (ft):      Principal Aquifer :  
 L.S. Elevation (ft)

## Lithologic Log

Unit	Description	Depth (ft)
no log		

**156-068-31BDD2**

NDSWC 1295

Date Completed: 5/3/58      Well Type:  
 Depth Drilled (ft): 178.5      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Randich, 1971  
 L.S. Elevation (ft)      0      No Obs Well

**156-068-36BBB**

NDGWC 1310

Date Completed: 6/23/58      Well Type:  
 Depth Drilled (ft): 178.5      Source of Data:  
 Screened Interval (ft):      Principal Aquifer : Randich, 1971  
 L.S. Elevation (ft)      1519      No Obs Well

**Table 2. Water levels in selected wells and stage of Devils Lake**

150-060-24AAA McVille Aquifer			LS Elev (msl,ft)=1489 SI (ft.)=97-103		
Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/10/85	48.90	1440.10	07/26/88	48.29	1440.71
05/01/85	48.87	1440.13	08/31/88	48.35	1440.65
06/03/85	48.87	1440.13	10/05/88	48.57	1440.43
07/11/85	48.75	1440.25	11/04/88	48.33	1440.67
08/07/85	48.77	1440.23	12/08/88	48.70	1440.30
09/12/85	48.95	1440.05			
10/01/85	48.82	1440.18	04/20/89	48.30	1440.70
11/07/85	48.85	1440.15	05/23/89	48.08	1440.92
			06/21/89	48.18	1440.82
04/22/86	48.57	1440.43	07/18/89	48.26	1440.74
06/04/86	48.75	1440.25	08/15/89	48.40	1440.60
07/09/86	48.79	1440.21	09/20/89	48.45	1440.55
08/19/86	48.53	1440.47	10/20/89	48.38	1440.62
09/16/86	48.67	1440.33	11/17/89	48.60	1440.40
10/14/86	48.70	1440.30	12/20/89	48.75	1440.25
12/10/86	48.44	1440.56			
			04/09/90	48.67	1440.33
04/29/87	48.34	1440.66	05/01/90	48.69	1440.31
06/02/87	48.32	1440.68	05/31/90	48.40	1440.60
07/09/87	48.24	1440.76	06/28/90	48.43	1440.57
08/11/87	48.07	1440.93	07/26/90	48.42	1440.58
09/10/87	48.24	1440.76	08/22/90	48.43	1440.57
10/15/87	48.25	1440.75	09/17/90	48.57	1440.43
11/11/87	48.20	1440.80	10/18/90	48.67	1440.33
12/09/87	48.22	1440.78	11/14/90	48.57	1440.43
			12/06/90	48.74	1440.26
04/14/88	48.28	1440.72			
05/26/88	48.05	1440.95	03/27/91	48.77	1440.23
07/02/88	48.29	1440.71	04/24/91	48.69	1440.31

150-061-05DDD

Spiritwood Aquifer

LS Elev (msl, ft)=1454.2

SI (ft.)=167-170

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/30/71	31.57	1422.63	11/02/82	35.09	1419.11
			11/30/82	35.00	1419.20
12/06/72	32.00	1422.20	04/05/83	34.45	1419.75
12/14/73	32.24	1421.96	05/01/83	34.42	1419.78
			06/04/83	34.40	1419.80
12/04/74	31.66	1422.54	06/28/83	34.35	1419.85
			08/02/83	34.37	1419.83
12/01/75	31.45	1422.75	08/31/83	34.32	1419.88
			09/30/83	34.15	1420.05
11/30/76	31.83	1422.37	10/31/83	34.02	1420.18
			11/27/83	33.90	1420.30
11/29/77	33.40	1420.80	04/03/84	33.27	1420.93
06/01/78	35.10	1419.10	04/30/84	33.27	1420.93
06/28/78	35.16	1419.04	05/31/84	33.35	1420.85
07/07/78	35.25	1418.95	06/30/84	33.36	1420.84
07/28/78	35.30	1418.90	08/01/84	33.39	1420.81
08/09/78	35.46	1418.74	08/31/84	33.54	1420.66
09/01/78	35.50	1418.70	09/29/84	33.54	1420.66
09/29/78	35.53	1418.67	10/29/84	33.52	1420.68
12/14/78	35.52	1418.68	12/06/84	33.30	1420.90
05/17/79	35.44	1418.76	04/28/85	33.28	1420.92
06/13/79	35.55	1418.65	05/29/85	33.30	1420.90
07/11/79	35.68	1418.52	06/29/85	33.39	1420.81
08/07/79	35.75	1418.45	07/27/85	33.52	1420.68
09/19/79	35.97	1418.23	08/29/85	33.59	1420.61
10/03/79	35.95	1418.25	09/28/85	33.63	1420.57
11/01/79	36.03	1418.17	10/29/85	33.59	1420.61
12/18/79	36.00	1418.20	04/01/86	33.48	1420.72
04/08/80	35.85	1418.35	04/29/86	33.48	1420.72
05/06/80	37.39	1416.81	05/31/86	33.46	1420.74
06/05/80	36.08	1418.12	07/01/86	33.52	1420.68
07/02/80	36.10	1418.10	08/01/86	33.62	1420.58
07/30/80	36.19	1418.01	08/30/86	33.71	1420.49
08/28/80	36.27	1417.93	09/30/86	33.64	1420.56
09/24/80	35.92	1418.28	11/01/86	33.66	1420.54
10/23/80	36.04	1418.16			
11/21/80	36.06	1418.14	04/30/87	33.42	1420.78
12/23/80	36.00	1418.20	05/30/87	33.37	1420.83
			07/02/87	33.42	1420.78
04/08/81	35.89	1418.31	07/31/87	33.20	1421.00
05/05/81	35.89	1418.31	08/29/87	33.26	1420.94
06/04/81	37.88	1416.32	09/30/87	33.27	1420.93
06/29/81	35.77	1418.43	10/30/87	33.25	1420.95
07/29/81	35.76	1418.44	11/28/87	33.25	1420.95
08/27/81	35.83	1418.37			
09/24/81	35.83	1418.37	03/31/88	32.89	1421.31
10/23/81	35.74	1418.46	04/29/88	32.90	1421.30
11/18/81	35.70	1418.50	05/30/88	32.93	1421.27
12/31/81	36.08	1418.12	06/28/88	33.19	1421.01
			08/01/88	33.28	1420.92
04/15/82	35.20	1419.00	08/29/88	33.26	1420.94
05/28/82	35.23	1418.97	09/30/88	33.25	1420.95
06/25/82	35.18	1419.02	10/29/88	33.30	1420.90
08/01/82	35.20	1419.00			
09/04/82	35.29	1418.91	04/27/89	33.19	1421.01
09/29/82	35.36	1418.84	05/31/89	33.29	1420.91

**150-061-05DD**

**(Continued)**

**Spiritwood Aquifer**

**LS Elev (msl, ft)=1454.2**

**SI (ft.)=167-170**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/27/89	33.44	1420.76	04/30/90	33.70	1420.50
07/29/89	33.70	1420.50	05/31/90	33.96	1420.24
08/30/89	33.68	1420.52	06/30/90	33.87	1420.33
09/30/89	33.75	1420.45	07/28/90	34.00	1420.20
10/30/89	33.84	1420.36	08/30/90	34.12	1420.08
11/28/89	33.82	1420.38	09/27/90	34.27	1419.93
04/04/90	33.70	1420.50	10/29/90	34.24	1419.96
			11/27/90	34.23	1419.97

**150-061-06BBB**  
**Spiritwood Aquifer**

LS Elev (msl, ft)=1462.7  
SI (ft.)=197-203

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/01/78	12.19	1450.51	05/31/84	8.97	1453.73
06/28/78	19.65	1443.05	06/30/84	9.67	1453.03
07/07/78	22.52	1440.18	07/31/84	22.92	1439.78
07/28/78	26.20	1436.50	08/31/84	25.41	1437.29
08/09/78	32.95	1429.75	09/29/84	16.18	1446.52
09/01/78	30.53	1432.17	10/29/84	11.90	1450.80
09/29/78	20.18	1442.52	12/07/84	9.65	1453.05
12/14/78	13.60	1449.10			
			04/28/85	7.36	1455.34
05/17/79	11.57	1451.13	05/29/85	11.30	1451.40
06/13/79	12.80	1449.90	06/29/85	9.52	1453.18
07/11/79	16.53	1446.17	07/27/85	22.82	1439.88
08/07/79	24.85	1437.85	08/29/85	16.31	1446.39
09/19/79	20.62	1442.08	09/28/85	11.78	1450.92
10/03/79	17.35	1445.35	10/29/85	9.76	1452.94
11/01/79	14.37	1448.33			
12/18/79	11.67	1451.03	03/31/86	7.13	1455.57
			04/29/86	6.59	1456.11
04/08/80	9.76	1452.94	05/31/86	9.11	1453.59
05/06/80	12.55	1450.15	07/01/86	19.07	1443.63
06/05/80	23.19	1439.51	07/30/86	13.58	1449.12
07/02/80	28.50	1434.20	08/31/86	16.33	1446.37
07/30/80	34.58	1428.12	09/30/86	11.39	1451.31
08/28/80	22.74	1439.96	10/31/86	9.27	1453.43
09/24/80	16.90	1445.80			
10/23/80	16.18	1446.52	04/28/87	6.20	1456.50
11/21/80	12.68	1450.02	05/30/87	9.69	1453.01
12/23/80	11.80	1450.90	07/02/87	10.28	1452.42
			07/31/87	9.48	1453.22
04/09/81	10.07	1452.63	08/30/87	9.02	1453.68
05/05/81	9.82	1452.88	09/30/87	7.08	1455.62
06/03/81	12.09	1450.61	10/29/87	6.06	1456.64
06/29/81	10.85	1451.85	11/29/87	5.54	1457.16
07/29/81	15.39	1447.31			
08/27/81	22.87	1439.83	03/31/88	4.63	1458.07
09/24/81	16.48	1446.22	04/29/88	4.97	1457.73
10/23/81	12.70	1450.00	05/30/88	6.82	1455.88
11/18/81	11.20	1451.50	06/28/88	22.71	1439.99
12/31/81	9.95	1452.75	08/01/88	27.29	1435.41
			08/29/88	19.92	1442.78
04/15/82	8.59	1454.11	09/30/88	13.47	1449.23
05/28/82	8.07	1454.63	10/28/88	10.75	1451.95
06/25/82	9.10	1453.60			
08/01/82	13.88	1448.82	04/27/89	6.77	1455.93
09/04/82	20.42	1442.28	05/31/89	8.08	1454.62
09/29/82	15.40	1447.30	06/27/89	12.59	1450.11
11/02/82	11.07	1451.63	07/29/89	30.15	1432.55
11/30/82	9.55	1453.15	08/30/89	23.79	1438.91
			09/30/89	14.71	1447.99
04/05/83	7.76	1454.94	10/30/89	11.91	1450.79
05/01/83	7.26	1455.44	11/29/89	10.49	1452.21
06/04/83	9.80	1452.90			
06/28/83	12.75	1449.95	04/04/90	8.23	1454.47
08/02/83	24.87	1437.83	04/30/90	8.21	1454.49
08/30/83	18.42	1444.28	05/31/90	10.13	1452.57
09/29/83	12.63	1450.07	06/30/90	9.50	1453.20
10/30/83	10.20	1452.50	07/28/90	18.85	1443.85
11/27/83	9.05	1453.65	08/29/90	23.62	1439.08
			09/27/90	18.18	1444.52
04/03/84	7.00	1455.70	10/28/90	13.03	1449.67
04/30/84	6.59	1456.11	11/27/90	11.14	1451.56

150-061-06CCC2

Spiritwood Aquifer

LS Elev (msl,ft)=1468.01

SI (ft.)=198-203

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/03/84	12.30	1455.71	09/30/87	12.40	1455.61
04/30/84	11.90	1456.11	10/30/87	11.61	1456.40
05/31/84	13.73	1454.28	11/28/87	11.12	1456.89
06/30/84	14.82	1453.19			
08/01/84	27.56	1440.45	03/31/88	10.16	1457.85
08/31/84	30.77	1437.24	04/29/88	10.32	1457.69
09/29/84	22.29	1445.72	05/30/88	11.96	1456.05
10/29/84	17.39	1450.62	06/28/88	26.64	1441.37
12/06/84	15.21	1452.80	08/01/88	30.49	1437.52
			08/29/88	25.12	1442.89
04/28/85	12.83	1455.18	09/30/88	18.48	1449.53
05/29/85	16.67	1451.34	10/29/88	16.33	1451.68
06/29/85	15.02	1452.99			
07/27/85	27.19	1440.82	04/27/89	12.28	1455.73
08/29/85	22.03	1445.98	05/31/89	13.52	1454.49
09/28/85	17.34	1450.67	06/27/89	17.29	1450.72
10/29/85	15.31	1452.70	07/29/89	34.90	1433.11
			08/30/89	28.80	1439.21
04/01/86	12.62	1455.39	09/30/89	20.44	1447.57
04/29/86	12.05	1455.96	10/30/89	17.47	1450.54
05/31/86	13.63	1454.38	11/28/89	15.97	1452.04
07/01/86	23.34	1444.67			
08/01/86	19.99	1448.02	04/04/90	13.62	1454.39
08/30/86	21.29	1446.72	04/30/90	13.57	1454.44
09/30/86	16.77	1451.24	05/31/90	15.12	1452.89
11/01/86	14.79	1453.22	06/30/90	14.89	1453.12
			07/28/90	23.01	1445.00
04/30/87	11.57	1456.44	08/30/90	28.50	1439.51
05/30/87	15.22	1452.79	09/27/90	23.37	1444.64
07/02/87	15.88	1452.13	10/29/90	18.41	1449.60
07/31/87	15.05	1452.96	11/27/90	16.63	1451.38
08/29/87	14.68	1453.33			

150-061-19BBB

Spiritwood Aquifer

LS Elev (msl, ft) = 1459.43

SI (ft.) = 175-181

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/28/78	88.94	1370.49	07/01/84	86.28	1373.15
07/07/78	89.08	1370.35	08/01/84	86.77	1372.66
07/28/78	89.08	1370.35	08/31/84	86.95	1372.48
08/09/78	89.32	1370.11	09/29/84	87.08	1372.35
09/01/78	89.35	1370.08	10/29/84	86.65	1372.78
09/29/78	89.72	1369.71	12/06/84	86.58	1372.85
12/14/78	89.67	1369.76			
			04/28/85	86.19	1373.24
05/17/79	88.40	1371.03	05/30/85	86.19	1373.24
06/13/79	89.90	1369.53	06/29/85	86.40	1373.03
07/11/79	89.75	1369.68	07/27/85	86.82	1372.61
08/07/79	90.04	1369.39	08/29/85	86.76	1372.67
09/19/79	90.69	1368.74	09/28/85	86.72	1372.71
10/04/79	90.94	1368.49	10/29/85	86.51	1372.92
10/31/79	90.75	1368.68			
12/19/79	90.57	1368.86	04/01/86	85.82	1373.61
			04/29/86	85.62	1373.81
04/08/80	89.25	1370.18	05/31/86	85.99	1373.44
05/06/80	89.96	1369.47	07/01/86	86.57	1372.86
06/05/80	89.77	1369.66	08/01/86	86.36	1373.07
07/30/80	90.27	1369.16	08/30/86	86.52	1372.91
08/29/80	90.47	1368.96	09/30/86	86.39	1373.04
09/25/80	90.12	1369.31	11/01/86	86.37	1373.06
10/23/80	89.96	1369.47			
11/23/80	89.84	1369.59	04/30/87	85.30	1374.13
12/24/80	90.22	1369.21	05/30/87	85.45	1373.98
			07/02/87	85.93	1373.50
04/09/81	89.06	1370.37	07/31/87	85.45	1373.98
05/05/81	89.39	1370.04	08/29/87	85.73	1373.70
06/04/81	89.25	1370.18	09/30/87	85.85	1373.58
07/29/81	89.60	1369.83	10/30/87	85.90	1373.53
08/27/81	89.87	1369.56	11/28/87	85.84	1373.59
09/24/81	90.05	1369.38			
10/23/81	90.00	1369.43	03/31/88	85.13	1374.30
12/31/81	89.97	1369.46	04/29/88	85.30	1374.13
			05/30/88	85.49	1373.94
04/15/82	88.10	1371.33	06/28/88	90.18	1369.25
05/28/82	89.14	1370.29	08/02/88	85.64	1373.79
06/25/82	89.47	1369.96	08/29/88	86.12	1373.31
08/01/82	89.10	1370.33	09/30/88	86.04	1373.39
09/04/82	89.94	1369.49	10/29/88	85.99	1373.44
09/29/82	90.40	1369.03			
11/02/82	87.77	1371.66	04/27/89	85.29	1374.14
12/01/82	88.15	1371.28	05/31/89	85.66	1373.77
			06/27/89	85.81	1373.62
04/05/83	86.48	1372.95	07/29/89	86.34	1373.09
05/01/83	86.67	1372.76	08/30/89	86.25	1373.18
06/04/83	87.02	1372.41	09/30/89	86.28	1373.15
06/28/83	87.05	1372.38	10/30/89	86.34	1373.09
08/02/83	87.63	1371.80	11/28/89	86.29	1373.14
08/31/83	87.15	1372.28			
09/30/83	87.14	1372.29	04/04/90	86.01	1373.42
10/31/83	87.02	1372.41	04/30/90	85.85	1373.58
11/27/83	86.87	1372.56	07/28/90	86.89	1372.54
			08/30/90	87.06	1372.37
04/03/84	85.92	1373.51	09/27/90	87.29	1372.14
04/30/84	85.80	1373.63	10/29/90	87.27	1372.16
06/01/84	86.14	1373.29	11/27/90	87.08	1372.35

150-061-30ABB

Spiritwood Aquifer

LS Elev (msl, ft)=1458.5

SI (ft.)=237-240

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/17/79	87.55	1370.95	09/28/85	85.91	1372.59
09/19/79	89.80	1368.70	10/29/85	85.69	1372.81
12/19/79	89.60	1368.90	04/01/86	84.99	1373.51
04/08/80	88.23	1370.27	04/29/86	84.81	1373.69
07/02/80	89.47	1369.03	05/31/86	85.20	1373.30
09/25/80	89.15	1369.35	07/01/86	85.72	1372.78
12/24/80	89.29	1369.21	08/01/86	85.53	1372.97
			08/30/86	85.72	1372.78
04/09/81	88.13	1370.37	09/30/86	85.49	1373.01
06/29/81	88.17	1370.33	11/01/86	85.57	1372.93
09/24/81	88.97	1369.53	04/30/87	84.50	1374.00
12/31/81	88.80	1369.70	05/30/87	84.63	1373.87
04/15/82	86.94	1371.56	07/02/87	85.14	1373.36
05/28/82	88.02	1370.48	07/31/87	84.61	1373.89
06/25/82	88.38	1370.12	08/29/87	84.93	1373.57
08/01/82	88.21	1370.29	09/30/87	85.05	1373.45
09/04/82	88.87	1369.63	10/30/87	85.06	1373.44
09/29/82	89.16	1369.34	11/28/87	85.03	1373.47
11/02/82	87.17	1371.33			
12/01/82	87.02	1371.48	03/31/88	84.30	1374.20
			04/29/88	84.52	1373.98
04/05/83	85.35	1373.15	05/30/88	84.67	1373.83
05/01/83	85.59	1372.91	06/28/88	85.09	1373.41
06/04/83	85.91	1372.59	08/02/88	85.17	1373.33
06/28/83	85.90	1372.60	08/29/88	85.28	1373.22
08/02/83	86.20	1372.30	09/30/88	85.20	1373.30
08/31/83	86.06	1372.44	10/29/88	85.14	1373.36
09/30/83	86.02	1372.48			
10/31/83	85.96	1372.54	04/27/89	84.40	1374.10
11/27/83	85.81	1372.69	05/31/89	84.77	1373.73
			06/27/89	84.99	1373.51
04/03/84	84.80	1373.70	07/29/89	85.48	1373.02
04/30/84	84.70	1373.80	08/30/89	85.45	1373.05
06/01/84	85.06	1373.44	09/30/89	85.40	1373.10
07/01/84	85.56	1372.94	10/30/89	85.50	1373.00
08/01/84	85.72	1372.78	11/28/89	85.44	1373.06
08/31/84	85.92	1372.58			
09/29/84	86.29	1372.21	04/04/90	85.16	1373.34
10/29/84	85.84	1372.66	04/30/90	85.00	1373.50
12/06/84	85.57	1372.93	06/01/90	85.15	1373.35
			06/30/90	84.98	1373.52
04/28/85	85.33	1373.17	07/28/90	85.27	1373.23
05/30/85	85.39	1373.11	08/30/90	85.47	1373.03
06/29/85	85.60	1372.90	09/27/90	85.68	1372.82
07/27/85	86.02	1372.48	10/29/90	85.67	1372.83
08/29/85	85.95	1372.55	11/27/90	85.52	1372.98

150-062-03DDD

Spiritwood Aquifer

LS Elev (msl, ft) = 1473.19

SI (ft.) = 168-173

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/04/84	16.85	1456.34	09/30/87	17.04	1456.15
04/30/84	16.12	1457.07	10/30/87	16.22	1456.97
06/01/84	17.98	1455.21	11/28/87	15.79	1457.40
07/01/84	18.91	1454.28			
08/01/84	29.89	1443.30	03/31/88	14.83	1458.36
08/31/84	33.75	1439.44	04/29/88	14.91	1458.28
09/29/84	26.46	1446.73	05/30/88	16.34	1456.85
10/29/84	22.06	1451.13	06/28/88	29.17	1444.02
12/07/84	19.70	1453.49	08/02/88	34.26	1438.93
			08/29/88	29.50	1443.69
04/28/85	17.41	1455.78	09/30/88	23.65	1449.54
05/30/85	20.83	1452.36	10/29/88	20.97	1452.22
06/29/85	19.54	1453.65			
07/27/85	29.73	1443.46	04/27/89	16.91	1456.28
08/29/85	24.48	1448.71	05/31/89	17.89	1455.30
09/28/85	21.83	1451.36	06/27/89	20.97	1452.22
10/29/85	19.76	1453.43	07/29/89	36.64	1436.55
			08/30/89	32.42	1440.77
04/01/86	17.19	1456.00	09/30/89	24.79	1448.40
04/29/86	16.60	1456.59	10/30/89	22.03	1451.16
05/31/86	17.38	1455.81	11/28/89	20.39	1452.80
07/01/86	26.12	1447.07			
08/01/86	23.13	1450.06	04/04/90	18.33	1454.86
08/30/86	25.60	1447.59	04/30/90	18.19	1455.00
09/30/86	21.30	1451.89	06/01/90	19.56	1453.63
11/01/86	19.25	1453.94	06/30/90	19.19	1454.00
			07/28/90	25.73	1447.46
04/30/87	16.11	1457.08	08/30/90	32.17	1441.02
05/30/87	19.53	1453.66	09/27/90	27.97	1445.22
07/02/87	20.17	1453.02	10/29/90	23.07	1450.12
07/31/87	19.49	1453.70	11/27/90	21.22	1451.97
08/29/87	19.07	1454.12			

150-062-04BBA

Warwick Aquifer

LS Elev (msl, ft)=1471.5

SI (ft.)=27-42

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/24/81	7.17	1464.33	04/28/86	5.40	1466.10
10/23/81	7.15	1464.35	05/31/86	4.92	1466.58
11/19/81	7.19	1464.31	07/01/86	6.42	1465.08
12/29/81	7.31	1464.19	08/01/86	6.26	1465.24
			08/30/86	6.68	1464.82
05/28/82	6.36	1465.14	09/30/86	6.54	1464.96
06/25/82	6.09	1465.41	11/01/86	6.57	1464.93
08/02/82	9.88	1461.62			
09/04/82	9.24	1462.26	05/31/87	4.36	1467.14
09/29/82	7.45	1464.05	07/02/87	5.03	1466.47
11/02/82	6.70	1464.80	08/29/87	4.19	1467.31
			09/30/87	4.74	1466.76
05/02/83	5.92	1465.58	10/30/87	5.18	1466.32
06/04/83	6.75	1464.75	11/28/87	5.39	1466.11
06/28/83	8.40	1463.10			
08/02/83	7.82	1463.68	04/29/88	5.46	1466.04
08/31/83	6.89	1464.61	05/30/88	5.74	1465.76
09/30/83	6.13	1465.37	06/28/88	7.33	1464.17
10/31/83	6.09	1465.41	08/02/88	9.82	1461.68
			08/29/88	9.98	1461.52
04/04/84	6.10	1465.40	09/30/88	6.69	1464.81
04/30/84	5.28	1466.22	10/29/88	7.81	1463.69
06/01/84	9.52	1461.98			
07/01/84	5.57	1465.93	04/27/89	7.04	1464.46
08/01/84	7.15	1464.35	06/01/89	7.13	1464.37
08/31/84	9.33	1462.17	06/26/89	9.20	1462.30
09/29/84	7.06	1464.44	07/30/89	9.20	1462.30
10/31/84	6.68	1464.82	08/30/89	8.57	1462.93
12/06/84	6.70	1464.80	09/30/89	8.39	1463.11
			10/30/89	8.52	1462.98
04/28/85	6.66	1464.84			
05/30/85	6.24	1465.26	04/30/90	8.51	1462.99
06/29/85	5.86	1465.64	06/01/90	8.77	1462.73
07/27/85	10.15	1461.35	06/30/90	7.68	1463.82
08/29/85	7.56	1463.94	07/28/90	10.46	1461.04
09/29/85	6.85	1464.65	08/29/90	8.94	1462.56
10/31/85	6.12	1465.38	09/27/90	8.63	1462.87
			10/29/90	8.63	1462.87
04/01/86	6.39	1465.11	11/27/90	8.74	1462.76

150-062-06BBC

Spiritwood Aquifer

LS Elev (msl, ft) = 1470.1

SI (ft.) = 123-126

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/09/81	4.12	1465.98	05/31/86	3.14	1466.96
06/29/81	3.04	1467.06	07/01/86	4.20	1465.90
09/25/81	4.48	1465.62	08/01/86	3.68	1466.42
12/29/81	4.72	1465.38	08/30/86	4.49	1465.61
			09/30/86	4.38	1465.72
04/15/82	3.64	1466.46	11/01/86	4.46	1465.64
05/28/82	3.10	1467.00			
06/25/82	2.99	1467.11	04/30/87	2.46	1467.64
08/02/82	3.67	1466.43	05/31/87	2.14	1467.96
09/04/82	4.60	1465.50	07/02/87	3.47	1466.63
09/29/82	4.81	1465.29	07/31/87	2.12	1467.98
11/02/82	3.33	1466.77	08/29/87	2.68	1467.42
12/01/82	3.84	1466.26	09/30/87	3.32	1466.78
			10/30/87	3.56	1466.54
04/05/83	3.64	1466.46	11/28/87	3.57	1466.53
05/02/83	2.80	1467.30			
06/04/83	3.29	1466.81	03/31/88	3.17	1466.93
06/28/83	3.85	1466.25	04/29/88	3.09	1467.01
08/02/83	4.58	1465.52	05/30/88	3.63	1466.47
08/31/83	4.37	1465.73	06/28/88	4.83	1465.27
09/30/83	3.93	1466.17	08/02/88	5.39	1464.71
10/31/83	3.84	1466.26	08/29/88	5.73	1464.37
11/27/83	3.91	1466.19	09/30/88	5.97	1464.13
			10/29/88	6.05	1464.05
04/05/84	3.28	1466.82			
04/30/84	2.15	1467.95	04/27/89	4.54	1465.56
06/01/84	3.30	1466.80	06/01/89	4.80	1465.30
07/01/84	3.38	1466.72	06/26/89	5.31	1464.79
08/02/84	4.67	1465.43	07/30/89	6.09	1464.01
08/31/84	5.23	1464.87	08/30/89	6.30	1463.80
09/29/84	5.47	1464.63	09/30/89	6.42	1463.68
10/31/84	4.80	1465.30	10/30/89	6.48	1463.62
12/06/84	4.73	1465.37	11/28/89	6.47	1463.63
04/28/85	4.29	1465.81	04/04/90	6.55	1463.55
05/30/85	4.19	1465.91	04/30/90	6.10	1464.00
06/29/85	4.10	1466.00	06/01/90	5.95	1464.15
07/27/85	5.03	1465.07	06/30/90	5.59	1464.51
08/29/85	5.04	1465.06	07/28/90	6.05	1464.05
09/29/85	5.10	1465.00	08/29/90	6.43	1463.67
10/31/85	4.10	1466.00	09/27/90	6.69	1463.41
			10/29/90	6.73	1463.37
04/01/86	3.53	1466.57	11/27/90	6.78	1463.32
04/28/86	2.25	1467.85			

**150-062-10DDD** LS Elev (msl,ft)=1473.74  
**Spiritwood Aquifer** SI (ft.)=168-173

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/04/84	17.49	1456.25	10/30/87	16.88	1456.86
06/01/84	18.02	1455.72	03/31/88	15.48	1458.26
08/31/84	33.86	1439.88	05/30/88	16.88	1456.86
10/31/84	27.93	1445.81	08/29/88	29.98	1443.76
04/28/85	18.08	1455.66	10/29/88	21.66	1452.08
07/27/85	28.87	1444.87	04/27/89	17.56	1456.18
10/29/85	20.36	1453.38	06/27/89	20.88	1452.86
04/01/86	17.81	1455.93	08/30/89	32.78	1440.96
05/31/86	17.58	1456.16	10/30/89	22.71	1451.03
08/01/86	23.58	1450.16	04/04/90	18.97	1454.77
11/01/86	19.89	1453.85	06/01/90	19.69	1454.05
04/30/87	16.67	1457.07	08/30/90	32.29	1441.45
07/02/87	20.66	1453.08	10/29/90	23.39	1450.35
08/29/87	19.62	1454.12	11/27/90	21.85	1451.89

**150-062-12BBB** LS Elev (msl,ft)=1477  
**Spiritwood Aquifer** SI (ft.)=218-223

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/04/84	18.47	1458.53	04/01/86	18.50	1458.50
04/30/84	18.02	1458.98	04/29/86	17.93	1459.07
06/01/84	20.11	1456.89	05/31/86	19.34	1457.66
07/01/84	20.89	1456.11	07/01/86	28.91	1448.09
09/29/84	27.70	1449.30	08/01/86	24.78	1452.22
10/29/84	23.34	1453.66	08/30/86	27.54	1449.46
12/07/84	20.96	1456.04	09/30/86	22.63	1454.37
04/28/85	18.58	1458.42	11/01/86	20.60	1456.40
05/30/85	22.44	1454.56			
06/29/85	20.92	1456.08	04/30/87	17.44	1459.56
07/27/85	32.82	1444.18	05/30/87	21.05	1455.95
08/29/85	27.89	1449.11	07/02/87	21.68	1455.32
09/28/85	23.20	1453.80	07/31/87	20.91	1456.09
10/29/85	21.12	1455.88	08/29/87	20.54	1456.46

**150-062-12CCCB** LS Elev (msl,ft)=1472.66  
**Spiritwood Aquifer** SI (ft.)=198-203

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/04/84	16.83	1455.83	08/29/87	19.08	1453.58
06/01/84	18.09	1454.57	10/30/87	16.07	1456.59
08/31/84	34.72	1437.94	04/29/88	14.72	1457.94
10/31/84	21.70	1450.96	06/28/88	29.96	1442.70
04/28/85	17.24	1455.42	08/29/88	29.92	1442.74
07/27/85	30.67	1441.99	10/29/88	20.88	1451.78
10/29/85	19.69	1452.97	04/27/89	16.38	1456.28
04/01/86	17.04	1455.62	06/27/89	21.16	1451.50
05/31/86	17.55	1455.11	08/30/89	32.43	1440.23
08/01/86	23.30	1449.36	10/30/89	21.95	1450.71
11/01/86	19.27	1453.39	06/01/90	19.40	1453.26
04/30/87	15.94	1456.72	08/30/90	32.86	1439.80
07/02/87	20.27	1452.39	10/29/90	23.01	1449.65

150-062-16AAA

Spiritwood Aquifer

LS Elev (msl, ft) = 1473.4

SI (ft.) 152-155

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/23/81	20.85	1452.55	05/31/86	14.82	1458.58
11/19/81	19.47	1453.93	07/01/86	20.59	1452.81
12/29/81	18.32	1455.08	08/01/86	20.24	1453.16
			08/30/86	21.79	1451.61
04/15/82	16.95	1456.45	09/30/86	19.18	1454.22
05/28/82	16.35	1457.05	11/01/86	17.43	1455.97
06/25/82	16.40	1457.00			
08/02/82	19.03	1454.37	04/30/87	14.38	1459.02
09/04/82	24.63	1448.77	05/30/87	16.95	1456.45
09/29/82	22.49	1450.91	07/02/87	17.62	1455.78
11/02/82	19.12	1454.28	07/31/87	17.11	1456.29
12/01/82	17.73	1455.67	08/29/87	16.76	1456.64
			09/30/87	15.34	1458.06
04/05/83	15.84	1457.56	10/30/87	14.68	1458.72
05/02/83	15.58	1457.82	11/28/87	14.28	1459.12
06/04/83	15.80	1457.60			
06/28/83	19.20	1454.20	03/31/88	13.49	1459.91
08/02/83	25.18	1448.22	04/29/88	13.39	1460.01
08/31/83	25.39	1448.01	05/30/88	14.57	1458.83
09/30/83	20.75	1452.65	06/28/88	22.25	1451.15
10/31/83	18.44	1454.96	08/02/88	27.79	1445.61
11/27/83	16.84	1456.56	08/29/88	25.97	1447.43
			09/30/88	21.60	1451.80
04/04/84	15.45	1457.95	10/29/88	19.29	1454.11
04/30/84	14.89	1458.51			
06/01/84	15.34	1458.06	04/27/89	15.59	1457.81
07/01/84	16.51	1456.89	05/31/89	15.80	1457.60
08/01/84	23.88	1449.52	06/26/89	17.51	1455.89
08/31/84	29.23	1444.17	07/29/89	28.25	1445.15
09/29/84	24.38	1449.02	08/30/89	28.34	1445.06
10/29/84	20.64	1452.76	09/30/89	22.88	1450.52
12/06/84	18.38	1455.02	10/30/89	20.22	1453.18
			11/28/89	18.86	1454.54
04/28/85	16.05	1457.35			
05/30/85	18.30	1455.10	04/04/90	16.86	1456.54
06/29/85	17.74	1455.66	04/30/90	16.64	1456.76
07/27/85	23.54	1449.86	06/01/90	17.08	1456.32
08/29/85	23.75	1449.65	06/30/90	17.06	1456.34
09/28/85	20.05	1453.35	07/28/90	20.40	1453.00
10/29/85	18.07	1455.33	08/30/90	27.22	1446.18
			09/27/90	25.08	1448.32
04/01/86	15.54	1457.86	10/29/90	21.00	1452.40
04/28/86	14.86	1458.54	11/27/90	19.43	1453.97

**150-062-22AAC**

**Spiritwood Aquifer**

**LS Elev (msl, ft)=**

**SI (ft.)=145-160**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/29/81	70.14		08/31/84	79.28	
08/27/81	60.76		10/29/84	49.40	
09/24/81	51.12				
11/19/81	42.95		04/28/85	37.09	
			07/27/85	36.75	
05/28/82	37.45				
12/01/82	35.83		05/31/86	33.96	
			08/01/86	34.94	
04/05/83	34.23		11/01/86	35.65	
06/04/83	34.01				
08/31/83	60.17		04/30/87	33.75	
10/31/83	43.80		07/02/87	34.30	
			08/29/87	34.47	
04/30/84	35.14		10/30/87	34.10	
06/01/84	34.99				

150-062-23BBB

Spiritwood Aquifer

LS Elev (msl, ft)=1462.2

SL (ft.)=154-178

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/24/81	50.12	1412.08	05/31/86	33.05	1429.15
10/23/81	44.75	1417.45	07/01/86	33.33	1428.87
11/19/81	41.94	1420.26	08/01/86	33.92	1428.28
12/31/81	39.12	1423.08	08/30/86	34.47	1427.73
			09/30/86	34.76	1427.44
04/15/82	35.95	1426.25	11/01/86	34.44	1427.76
05/28/82	36.44	1425.76			
06/25/82	36.34	1425.86	04/30/87	32.73	1429.47
08/02/82	35.06	1427.14	05/30/87	33.08	1429.12
09/04/82	35.52	1426.68	07/02/87	33.39	1428.81
09/29/82	36.23	1425.97	07/31/87	33.64	1428.56
11/02/82	35.55	1426.65	08/29/87	33.32	1428.88
12/01/82	34.88	1427.32	09/30/87	33.21	1428.99
			10/30/87	33.00	1429.20
04/05/83	33.23	1428.97	11/28/87	32.87	1429.33
05/01/83	33.06	1429.14			
06/04/83	33.02	1429.18	03/31/88	31.96	1430.24
06/28/83	52.12	1410.08	04/29/88	32.02	1430.18
08/02/83	60.55	1401.65	05/30/88	32.34	1429.86
08/31/83	59.10	1403.10	06/28/88	34.49	1427.71
09/30/83	47.34	1414.86	08/02/88	40.53	1421.67
10/31/83	42.79	1419.41	08/29/88	41.20	1421.00
11/27/83	40.19	1422.01	09/30/88	38.21	1423.99
			10/29/88	37.30	1424.90
04/03/84	34.88	1427.32			
04/30/84	34.10	1428.10	04/27/89	33.93	1428.27
06/01/84	33.98	1428.22	05/31/89	34.40	1427.80
07/01/84	33.93	1428.27	06/27/89	63.35	1398.85
08/01/84	80.90	1381.30	07/29/89	45.14	1417.06
08/31/84	78.06	1384.14	08/30/89	43.88	1418.32
09/29/84	56.76	1405.44	09/30/89	40.22	1421.98
10/29/84	48.56	1413.64	10/30/89	39.04	1423.16
12/06/84	42.87	1419.33	11/28/89	37.86	1424.34
04/28/85	36.08	1426.12	04/04/90	35.31	1426.89
05/30/85	35.42	1426.78	04/30/90	34.99	1427.21
06/29/85	35.40	1426.80	06/01/90	35.25	1426.95
07/27/85	35.75	1426.45	06/30/90	34.90	1427.30
08/29/85	36.31	1425.89	07/28/90	37.30	1424.90
09/28/85	36.40	1425.80	08/30/90	39.42	1422.78
10/29/85	35.73	1426.47	09/27/90	38.27	1423.93
			10/29/90	37.65	1424.55
04/01/86	33.42	1428.78	11/27/90	36.14	1426.06
04/29/86	32.92	1429.28			

**150-062-24CBB****Spiritwood Aquifer**

LS Elev (msl, ft) = 1462.78

SI (ft.) = 158-163

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/03/84	87.72	1375.06	09/30/87	87.54	1375.24
04/30/84	87.42	1375.36	10/30/87	87.36	1375.42
06/01/84	87.41	1375.37	11/28/87	87.31	1375.47
07/01/84	87.72	1375.06			
08/01/84	88.06	1374.72	03/31/88	86.49	1376.29
08/31/84	88.51	1374.27	04/29/88	86.45	1376.33
09/29/84	88.60	1374.18	05/30/88	86.63	1376.15
10/29/84	88.34	1374.44	06/28/88	87.19	1375.59
12/06/84	88.23	1374.55	08/02/88	87.42	1375.36
			08/29/88	87.76	1375.02
04/28/85	87.93	1374.85	09/30/88	87.66	1375.12
05/30/85	87.95	1374.83	10/29/88	87.92	1374.86
06/29/85	88.46	1374.32			
07/27/85	88.81	1373.97	04/27/89	87.39	1375.39
08/29/85	88.90	1373.88	05/31/89	87.89	1374.89
09/28/85	88.93	1373.85	06/27/89	88.01	1374.77
10/29/85	88.92	1373.86	07/29/89	87.18	1375.60
			08/30/89	88.79	1373.99
04/01/86	88.23	1374.55	09/30/89	86.14	1376.64
04/29/86	87.83	1374.95	10/30/89	88.89	1373.89
05/31/86	87.93	1374.85	11/28/89	89.00	1373.78
07/01/86	88.58	1374.20			
08/01/86	88.58	1374.20	04/04/90	88.64	1374.14
08/30/86	88.52	1374.26	04/30/90	88.55	1374.23
09/30/86	88.48	1374.30	06/01/90	88.54	1374.24
11/01/86	88.56	1374.22	06/30/90	88.64	1374.14
			07/28/90	88.72	1374.06
04/30/87	87.04	1375.74	08/30/90	88.93	1373.85
05/30/87	87.39	1375.39	09/27/90	89.29	1373.49
07/02/87	87.75	1375.03	10/29/90	89.25	1373.53
07/31/87	87.39	1375.39	11/27/90	89.19	1373.59
08/29/87	87.33	1375.45			

150-063-02CCC

Warwick Aquifer

LS Elev (msl, ft)=1473

SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/08/81	8.75	1464.25	05/31/86	7.84	1465.16
06/29/81	7.92	1465.08	07/01/86	9.02	1463.98
09/25/81	8.23	1464.77	08/01/86	9.19	1463.81
12/29/81	8.55	1464.45	08/30/86	9.47	1463.53
			09/30/86	9.06	1463.94
04/15/82	7.79	1465.21	11/01/86	8.73	1464.27
05/28/82	7.68	1465.32			
06/25/82	7.45	1465.55	04/30/87	6.60	1466.40
08/02/82	8.25	1464.75	05/31/87	7.00	1466.00
09/04/82	9.05	1463.95	07/02/87	8.13	1464.87
09/29/82	9.09	1463.91	07/31/87	6.93	1466.07
11/02/82	8.41	1464.59	08/29/87	7.00	1466.00
12/01/82	8.33	1464.67	09/30/87	7.09	1465.91
			10/30/87	7.12	1465.88
04/05/83	7.63	1465.37	11/28/87	7.16	1465.84
05/02/83	7.43	1465.57			
06/04/83	7.65	1465.35	03/31/88	7.00	1466.00
06/28/83	8.20	1464.80	04/29/88	6.97	1466.03
08/02/83	9.28	1463.72	05/30/88	7.45	1465.55
08/31/83	9.87	1463.13	06/28/88	8.89	1464.11
09/30/83	9.05	1463.95	08/02/88	9.57	1463.43
10/31/83	8.65	1464.35	08/29/88	9.50	1463.50
11/27/83	8.53	1464.47	09/30/88	9.43	1463.57
			10/29/88	9.45	1463.55
04/05/84	7.89	1465.11			
04/30/84	7.46	1465.54	04/27/89	8.53	1464.47
06/01/84	7.62	1465.38	06/01/89	8.79	1464.21
07/01/84	8.02	1464.98	06/26/89	9.47	1463.53
08/02/84	9.31	1463.69	07/30/89	11.20	1461.80
08/31/84	9.49	1463.51	08/30/89	11.78	1461.22
09/29/84	9.90	1463.10	09/30/89	11.28	1461.72
10/31/84	9.87	1463.13	10/30/89	10.97	1462.03
12/06/84	9.61	1463.39	11/28/89	10.77	1462.23
04/28/85	9.04	1463.96	04/04/90	10.72	1462.28
05/30/85	9.31	1463.69	04/30/90	10.63	1462.37
06/29/85	9.39	1463.61	06/01/90	10.97	1462.03
07/27/85	10.34	1462.66	06/30/90	11.28	1461.72
08/29/85	10.83	1462.17	07/28/90	12.12	1460.88
09/29/85	10.35	1462.65	08/29/90	12.89	1460.11
10/31/85	9.93	1463.07	09/27/90	12.64	1460.36
			10/29/90	11.94	1461.06
04/01/86	8.46	1464.54	11/27/90	11.72	1461.28
04/28/86	7.94	1465.06			

**150-063-13BBB**Warwick Aquifer

LS Elev (msl, ft) = 1476.4

SI (ft.) = 0-17

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/09/81	12.85	1463.55	05/31/86	9.45	1466.95
06/29/81	12.19	1464.21	07/01/86	10.98	1465.42
09/25/81	13.20	1463.20	08/01/86	11.74	1464.66
12/29/81	13.98	1462.42	08/30/86	12.13	1464.27
			09/30/86	12.65	1463.75
04/15/82	13.02	1463.38	11/01/86	12.92	1463.48
05/28/82	11.91	1464.49			
06/25/82	11.75	1464.65	04/30/87	7.17	1469.23
08/02/82	12.18	1464.22	05/31/87	7.69	1468.71
09/04/82	12.75	1463.65	07/02/87	9.03	1467.37
09/29/82	12.99	1463.41	07/31/87	5.66	1470.74
11/02/82	12.64	1463.76	08/29/87	7.73	1468.67
12/01/82	12.83	1463.57	09/30/87	9.36	1467.04
			10/30/87	10.56	1465.84
04/05/83	10.90	1465.50	11/28/87	11.12	1465.28
05/02/83	10.58	1465.82			
06/04/83	11.27	1465.13	03/31/88	11.11	1465.29
06/28/83	11.99	1464.41	04/29/88	10.99	1465.41
08/02/83	12.32	1464.08	05/30/88	11.63	1464.77
08/31/83	13.15	1463.25	06/28/88	12.30	1464.10
09/30/83	13.37	1463.03	08/02/88	12.89	1463.51
10/31/83	13.36	1463.04	08/29/88	13.38	1463.02
11/27/83	13.46	1462.94	09/30/88	13.73	1462.67
			10/29/88	13.87	1462.53
04/05/84	12.99	1463.41			
04/30/84	12.33	1464.07	04/27/89	12.02	1464.38
06/01/84	11.34	1465.06	06/01/89	12.50	1463.90
07/01/84	11.72	1464.68	06/26/89	12.69	1463.71
08/02/84	12.42	1463.98	07/30/89	13.16	1463.24
08/31/84	13.04	1463.36	08/30/89	13.73	1462.67
09/29/84	13.49	1462.91	09/30/89	13.84	1462.56
10/31/84	13.68	1462.72	10/30/89	14.09	1462.31
12/06/84	14.87	1461.53	11/28/89	14.16	1462.24
04/28/85	13.10	1463.30	04/04/90	14.93	1461.47
05/30/85	13.19	1463.21	04/30/90	14.87	1461.53
06/29/85	13.21	1463.19	06/01/90	14.68	1461.72
07/27/85	13.57	1462.83	06/30/90	14.69	1461.71
08/29/85	13.70	1462.70	07/28/90	14.55	1461.85
09/29/85	14.13	1462.27	08/29/90	14.51	1461.89
10/31/85	13.58	1462.82	09/27/90	14.97	1461.43
			10/29/90	15.22	1461.18
04/01/86	11.94	1464.46	11/27/90	15.12	1461.28
04/28/86	10.07	1466.33			

150-063-15BBB

Warwick Aquifer

LS Elev (msl, ft)=1478.6

SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/08/81	27.51	1451.09	04/28/86	26.48	1452.12
06/29/81	27.15	1451.45	05/31/86	26.03	1452.57
09/25/81	26.85	1451.75	07/01/86	25.72	1452.88
12/29/81	27.08	1451.52	08/01/86	25.66	1452.94
			08/30/86	25.68	1452.92
04/15/82	26.30	1452.30	09/30/86	25.80	1452.80
05/28/82	26.23	1452.37	11/01/86	25.90	1452.70
06/25/82	26.18	1452.42			
08/02/82	26.22	1452.38	04/30/87	25.18	1453.42
09/04/82	26.25	1452.35	05/31/87	24.99	1453.61
09/29/82	26.31	1452.29	07/02/87	24.90	1453.70
11/02/82	26.36	1452.24	07/31/87	24.68	1453.92
12/01/82	26.35	1452.25	08/29/87	24.00	1454.60
			09/30/87	24.02	1454.58
04/05/83	26.00	1452.60	10/30/87	24.20	1454.40
05/02/83	25.93	1452.67	11/28/87	24.35	1454.25
06/04/83	25.85	1452.75			
06/28/83	25.94	1452.66	04/29/88	24.88	1453.72
08/02/83	26.03	1452.57	05/30/88	24.97	1453.63
08/31/83	26.17	1452.43	06/28/88	24.76	1453.84
09/30/83	26.21	1452.39	08/02/88	25.25	1453.35
10/31/83	26.15	1452.45	08/29/88	25.44	1453.16
11/27/83	26.16	1452.44	09/30/88	25.60	1453.00
			10/29/88	25.76	1452.84
04/05/84	26.91	1451.69			
04/30/84	25.84	1452.76	04/27/89	26.18	1452.42
06/01/84	25.61	1452.99	06/01/89	26.14	1452.46
07/01/84	25.45	1453.15	06/26/89	26.50	1452.10
08/02/84	25.41	1453.19	07/30/89	26.39	1452.21
08/31/84	25.54	1453.06	08/30/89	26.48	1452.12
09/29/84	25.69	1452.91	09/30/89	26.55	1452.05
10/31/84	25.80	1452.80	10/30/89	26.69	1451.91
12/06/84	25.91	1452.69	11/28/89	26.77	1451.83
04/28/85	26.38	1452.22	04/04/90	26.83	1451.77
05/30/85	26.30	1452.30	04/30/90	26.88	1451.72
06/29/85	26.35	1452.25	06/01/90	26.93	1451.67
07/27/85	26.34	1452.26	06/30/90	26.96	1451.64
08/29/85	26.52	1452.08	07/28/90	27.49	1451.11
09/29/85	26.48	1452.12	08/29/90	27.23	1451.37
10/31/85	26.90	1451.70	09/27/90	27.31	1451.29
			10/29/90	27.36	1451.24
04/01/86	27.02	1451.58	11/27/90	27.56	1451.04

**150-064-05BBB****Tokio Aquifer**

LS Elev (msl,ft)=1567.3

SI (ft.)=63-68

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/05/86	33.07	1534.23	07/08/88	31.40	1535.90
11/20/86	33.26	1534.04	08/02/88	31.48	1535.82
			09/08/88	31.58	1535.72
01/07/87	33.58	1533.72	10/12/88	31.67	1535.63
03/31/87	33.14	1534.16	11/09/88	31.73	1535.57
05/11/87	31.82	1535.48	12/14/88	31.88	1535.42
06/16/87	31.71	1535.59			
07/14/87	31.67	1535.63	06/14/89	32.26	1535.04
08/10/87	31.50	1535.80	08/08/89	32.35	1534.95
09/08/87	31.43	1535.87	10/11/89	32.48	1534.82
10/14/87	31.41	1535.89	12/20/89	32.77	1534.53
11/09/87	31.38	1535.92			
12/07/87	31.37	1535.93	04/16/90	33.19	1534.11
			06/13/90	33.03	1534.27
01/18/88	31.40	1535.90	09/06/90	33.37	1533.93
03/30/88	31.44	1535.86	09/13/90	33.03	1534.27
05/06/88	31.42	1535.88	10/30/90	33.55	1533.75
06/01/88	31.40	1535.90			

**151-061-07CCC****Spiritwood Aquifer**

LS Elev (msl,ft)=1512.68

SI (ft.)=178-183

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/04/84	53.88	1458.80	10/01/87	52.62	1460.06
04/30/84	53.65	1459.03	10/29/87	52.09	1460.59
05/31/84	53.73	1458.95	11/29/87	51.80	1460.88
06/30/84	53.95	1458.73			
07/31/84	56.16	1456.52	03/30/88	51.05	1461.63
08/30/84	57.80	1454.88	04/29/88	50.89	1461.79
09/29/84	57.21	1455.47	05/30/88	51.33	1461.35
10/29/84	52.39	1460.29	06/28/88	54.33	1458.35
12/06/84	55.55	1457.13	07/31/88	56.88	1455.80
			08/29/88	57.00	1455.68
04/28/85	54.07	1458.61	09/30/88	56.12	1456.56
05/28/85	54.66	1458.02	10/28/88	54.08	1458.60
06/29/85	54.54	1458.14			
07/27/85	54.88	1457.80	04/27/89	53.18	1459.50
08/29/85	46.46	1466.22	05/31/89	53.11	1459.57
09/28/85	56.74	1455.94	06/27/89	53.72	1458.96
10/29/85	55.87	1456.81	07/29/89	57.55	1455.13
			08/30/89	57.96	1454.72
03/31/86	54.48	1458.20	09/30/89	57.71	1454.97
04/28/86	53.75	1458.93	10/31/89	56.94	1455.74
05/31/86	52.85	1459.83	11/29/89	56.05	1456.63
07/01/86	55.80	1456.88			
07/30/86	55.48	1457.20	04/04/90	54.70	1457.98
08/29/86	56.24	1456.44	04/30/90	54.56	1458.12
09/29/86	55.32	1457.36	05/31/90	54.88	1457.80
10/31/86	54.89	1457.79	06/30/90	54.64	1458.04
			07/28/90	56.68	1456.00
04/28/87	52.66	1460.02	08/29/90	57.78	1454.90
05/30/87	53.02	1459.66	09/27/90	58.07	1454.61
07/02/87	53.23	1459.45	10/28/90	57.40	1455.28
07/31/87	53.17	1459.51	11/27/90	57.04	1455.64
08/31/87	52.99	1459.69			

151-061-30AAA

Spiritwood Aquifer

LS Elev (msl, ft) = 1505.11

SI (ft.) = 218-223

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/04/84	51.77	1453.34	09/30/87	49.16	1455.95
04/30/84	49.38	1455.73	10/29/87	48.68	1456.43
05/31/84	52.00	1453.11	11/29/87	48.29	1456.82
06/30/84	52.48	1452.63			
08/01/84	64.68	1440.43	03/30/88	47.21	1457.90
08/30/84	67.34	1437.77	04/29/88	47.49	1457.62
09/29/84	57.94	1447.17	05/30/88	49.42	1455.69
10/29/84	53.31	1451.80	06/28/88	65.06	1440.05
12/06/84	52.28	1452.83	07/31/88	68.30	1436.81
			08/29/88	61.33	1443.78
04/28/85	50.04	1455.07	09/30/88	55.54	1449.57
05/29/85	53.88	1451.23	10/28/88	53.08	1452.03
06/29/85	51.98	1453.13			
07/27/85	65.26	1439.85	04/27/89	49.40	1455.71
08/29/85	58.10	1447.01	06/01/89	50.55	1454.56
09/28/85	54.21	1450.90	06/27/89	55.48	1449.63
10/29/85	52.43	1452.68	07/29/89	67.39	1437.72
			08/30/89	65.28	1439.83
03/31/86	49.67	1455.44	09/30/89	56.33	1448.78
04/29/86	49.45	1455.66	10/31/89	54.29	1450.82
05/31/86	52.52	1452.59	11/29/89	52.95	1452.16
07/01/86	61.83	1443.28			
07/30/86	56.11	1449.00	04/04/90	50.87	1454.24
08/29/86	58.52	1446.59	04/30/90	50.73	1454.38
09/30/86	53.75	1451.36	05/31/90	52.61	1452.50
10/31/86	51.62	1453.19	06/30/90	52.07	1453.04
			07/28/90	61.61	1443.50
04/28/87	48.84	1456.27	08/29/90	64.59	1440.52
05/30/87	51.91	1453.20	09/27/90	59.53	1445.58
07/02/87	52.43	1452.68	10/28/90	55.34	1449.77
07/31/87	51.78	1453.33	11/27/90	53.73	1451.38
08/30/87	51.24	1453.87			

151-061-30BBB

Spiritwood Aquifer

LS Elev (msl,ft)=1453.2

SI (ft.)=197-200

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/28/78	10.68	1442.52	08/02/83	15.29	1437.91
07/07/78	11.08	1442.12	08/30/83	5.55	1447.65
07/28/78	17.94	1435.26	09/29/83	0.32	1452.88
08/09/78	24.76	1428.44	05/31/84	1.28	1451.92
09/01/78	16.93	1436.27	06/30/84	1.80	1451.40
09/29/78	7.70	1445.50	07/31/84	13.37	1439.83
12/14/78	2.09	1451.11	08/30/84	13.89	1439.31
05/18/79	0.40	1452.80	09/29/84	3.46	1449.74
06/13/79	3.18	1450.02	10/29/84	0.05	1453.15
07/11/79	8.29	1444.91	12/06/84	1.20	1452.00
08/07/79	14.70	1438.50	05/29/85	0.01	1453.19
09/19/79	8.03	1445.17	07/27/85	13.99	1439.21
10/03/79	5.11	1448.09	08/29/85	4.08	1449.12
11/01/79	2.48	1450.72	09/28/85	-0.12	1453.32
12/18/79	0.10	1453.10	05/31/86	0.50	1452.70
05/06/80	2.86	1450.34	07/01/86	9.26	1443.94
06/05/80	3.15	1450.05	07/30/86	0.89	1452.31
07/02/80	19.40	1433.80	08/29/86	3.45	1449.75
07/30/80	23.43	1429.77	09/30/86	-1.66	1454.86
08/28/80	9.78	1443.42	07/24/87	-2.48	1455.68
09/29/80	4.73	1448.47	07/31/87	-3.35	1456.55
10/23/80	2.35	1450.85	05/05/81	1.60	1451.60
11/21/80	0.92	1452.28	06/28/88	13.66	1439.54
06/04/81	0.34	1452.86	07/31/88	15.80	1437.40
06/29/81	1.09	1452.11	08/29/88	6.53	1446.67
07/29/81	6.16	1447.04	09/30/88	0.59	1452.61
08/27/81	10.45	1442.75	10/28/88	1.98	1451.22
09/24/81	4.15	1449.05	06/27/89	2.43	1450.77
10/23/81	0.80	1452.40	07/29/89	16.77	1436.43
11/18/81	0.60	1452.60	08/30/89	12.17	1441.03
06/25/82	1.42	1451.78	09/30/89	1.68	1451.52
08/01/82	4.86	1448.34	10/31/89	-1.15	1454.35
09/04/82	7.97	1445.23	11/29/89	-2.15	1455.35
09/29/82	3.18	1450.02	07/28/90	9.78	1443.42
11/02/82	0.97	1452.23	08/29/90	9.89	1443.31
06/04/83	1.42	1451.78	09/27/90	4.99	1448.21
06/28/83	3.03	1450.17	10/28/90	0.51	1452.69

151-061-32BBB

Spiritwood Aquifer

LS Elev (msl,ft)=1465.26

SI (ft.)=168-173

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/04/84	9.83	1455.43	08/30/87	11.69	1453.57
04/30/84	9.41	1455.85	09/30/87	9.62	1455.64
05/31/84	11.65	1453.61	10/29/87	8.93	1456.33
06/30/84	12.66	1452.60	11/28/87	8.39	1456.87
08/01/84	25.42	1439.84			
08/31/84	28.08	1437.18	04/29/88	7.72	1457.54
09/29/84	18.65	1446.61	05/30/88	9.34	1455.92
10/29/84	14.63	1450.63	06/28/88	25.24	1440.02
12/06/84	12.47	1452.79	08/01/88	29.62	1435.64
			08/29/88	22.29	1442.97
04/28/85	10.18	1455.08	09/30/88	15.91	1449.35
05/29/85	14.12	1451.14	10/28/88	13.39	1451.87
06/29/85	12.29	1452.97			
07/27/85	25.60	1439.66	04/27/89	9.52	1455.74
08/29/85	18.80	1446.46	06/01/89	10.80	1454.46
09/28/85	14.54	1450.72	06/27/89	15.35	1449.91
10/29/85	12.62	1452.64	07/29/89	32.72	1432.54
			08/30/89	25.98	1439.28
03/31/86	10.07	1455.19	09/30/89	17.16	1448.10
04/29/86	9.56	1455.70	10/31/89	14.53	1450.73
05/31/86	12.10	1453.16	11/29/89	13.12	1452.14
07/01/86	21.94	1443.32			
07/30/86	16.62	1448.64	04/04/90	10.94	1454.32
08/31/86	18.88	1446.38	04/30/90	10.81	1454.45
09/30/86	13.93	1451.33	05/31/90	12.38	1452.88
10/31/86	12.05	1453.21	06/30/90	12.29	1452.97
			07/28/90	21.59	1443.67
04/28/87	9.02	1456.24	08/29/90	25.83	1439.43
05/30/87	12.40	1452.86	09/27/90	20.33	1444.93
07/02/87	12.95	1452.31	10/29/90	15.59	1449.67
07/31/87	12.17	1453.09	11/27/90	13.91	1451.35

151-062-03DD2

Spiritwood Aquifer

LS Elev (msl, ft)=1535.2

SI (ft.)=260-263

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/17/79	89.44	1445.76	08/29/85	88.79	1446.41
09/20/79	93.20	1442.00	09/29/85	85.50	1449.70
12/18/79	86.50	1448.70	10/31/85	85.77	1449.43
04/07/80	84.60	1450.60	03/31/86	81.58	1453.62
07/01/80	100.46	1434.74	04/28/86	81.12	1454.08
09/24/80	90.48	1444.72	05/31/86	82.34	1452.86
12/23/80	86.30	1448.90	07/01/86	90.49	1444.71
			07/30/86	86.43	1448.77
04/10/81	84.77	1450.43	08/30/86	88.32	1446.88
06/29/81	85.09	1450.11	09/29/86	84.97	1450.23
07/28/81	89.11	1446.09	10/31/86	83.00	1452.20
09/24/81	89.44	1445.76			
12/30/81	84.50	1450.70	04/28/87	80.63	1454.57
			05/30/87	82.94	1452.26
04/15/82	83.19	1452.01	07/02/87	83.65	1451.55
05/27/82	82.70	1452.50	07/31/87	83.00	1452.20
06/24/82	84.76	1450.44	08/30/87	82.77	1452.43
08/01/82	87.45	1447.75	09/30/87	81.17	1454.03
09/04/82	92.19	1443.01	10/29/87	78.66	1456.54
09/29/82	88.57	1446.63	11/28/87	79.99	1455.21
11/02/82	85.20	1450.00			
12/01/82	83.97	1451.23	03/30/88	79.08	1456.12
			04/29/88	79.39	1455.81
04/06/83	81.96	1453.24	05/30/88	80.58	1454.62
05/02/83	81.73	1453.47	06/28/88	94.19	1441.01
06/04/83	83.88	1451.32	07/31/88	96.74	1438.46
06/28/83	85.90	1449.30	08/29/88	91.66	1443.54
08/02/83	95.65	1439.55	09/30/88	87.39	1447.81
08/30/83	90.28	1444.92	10/28/88	84.62	1450.58
09/29/83	86.09	1449.11			
10/30/83	84.15	1451.05	04/27/89	81.20	1454.00
11/27/83	83.22	1451.98	06/01/89	81.82	1453.38
			06/26/89	85.98	1449.22
04/04/84	81.33	1453.87	08/29/89	93.96	1441.24
04/30/84	80.93	1454.27	09/29/89	88.20	1447.00
05/31/84	83.69	1451.51	10/30/89	85.83	1449.37
07/01/84	83.96	1451.24	11/28/89	84.74	1450.46
08/02/84	93.39	1441.81			
08/31/84	95.42	1439.78	04/04/90	82.42	1452.78
09/29/84	88.69	1446.51	04/30/90	82.52	1452.68
10/31/84	85.28	1449.92	05/31/90	84.01	1451.19
12/06/84	83.69	1451.51	06/30/90	83.39	1451.81
			07/28/90	90.91	1444.29
04/28/85	81.56	1453.64	08/29/90	93.71	1441.49
05/29/85	85.33	1449.87	09/27/90	90.44	1444.76
06/29/85	83.42	1451.78	10/28/90	86.94	1448.26
07/27/85	94.48	1440.72	11/27/90	85.51	1449.69

151-062-09ABB

Spiritwood Aquifer

LS Elev (msl, ft)=1494.4

SI (ft.)=197-203

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/28/78	55.50	1438.90	08/31/84	55.30	1439.10
07/07/78	57.32	1437.08	09/29/84	49.28	1445.12
07/28/78	59.33	1435.07	10/31/84	45.97	1448.43
08/09/78	64.09	1430.31	12/06/84	42.39	1452.01
09/01/78	62.65	1431.75			
09/28/78	56.02	1438.38	04/28/85	42.34	1452.06
12/15/78	51.13	1443.27	05/29/85	45.43	1448.97
			06/29/85	44.04	1450.36
05/17/79	49.28	1445.12	07/27/85	53.60	1440.80
06/13/79	50.26	1444.14	08/29/85	49.37	1445.03
07/11/79	51.00	1443.40	09/29/85	46.15	1448.25
08/07/79	55.98	1438.42	10/31/85	44.45	1449.95
09/19/79	53.21	1441.19			
10/03/79	51.10	1443.30	03/31/86	42.33	1452.07
11/01/79	48.98	1445.42	04/28/86	41.80	1452.60
12/18/79	46.70	1447.70	05/31/86	42.53	1451.87
			07/01/86	49.93	1444.47
04/08/80	44.85	1449.55	07/30/86	46.90	1447.50
05/06/80	46.79	1447.61	08/30/86	48.66	1445.74
06/04/80	54.90	1439.50	09/29/86	45.22	1449.18
07/01/80	58.13	1436.27	10/31/86	43.68	1450.72
07/30/80	62.67	1431.73			
08/28/80	54.94	1439.46	04/28/87	40.90	1453.50
09/24/80	50.75	1443.65	05/30/87	43.08	1451.32
12/23/80	46.63	1447.77	07/02/87	43.79	1450.61
			07/31/87	43.29	1451.11
04/10/81	45.05	1449.35	08/30/87	42.98	1451.42
06/04/81	46.12	1448.28	09/30/87	41.45	1452.95
06/29/81	45.36	1449.04	10/29/87	40.71	1453.69
07/28/81	48.00	1446.40	11/28/87	40.36	1454.04
08/27/81	52.89	1441.51			
09/24/81	49.65	1444.75	03/30/88	39.39	1455.01
10/23/81	47.05	1447.35	04/29/88	39.58	1454.82
11/18/81	45.95	1448.45	05/30/88	40.79	1453.61
12/30/81	44.83	1449.57	06/28/88	52.72	1441.68
			07/31/88	55.91	1438.49
04/15/82	43.56	1450.84	08/29/88	51.73	1442.67
05/27/82	43.10	1451.30	09/30/88	46.99	1447.41
06/24/82	44.27	1450.13	10/28/88	44.91	1449.49
08/01/82	46.58	1447.82			
09/04/82	52.54	1441.86	04/27/89	41.50	1452.90
09/29/82	49.18	1445.22	06/01/89	42.02	1452.38
11/02/82	45.93	1448.47	06/26/89	45.75	1448.65
12/01/82	44.66	1449.74	07/29/89	58.18	1436.22
			08/29/89	53.73	1440.67
05/02/83	42.48	1451.92	09/29/89	48.42	1445.98
06/04/83	44.17	1450.23	10/30/89	46.09	1448.31
06/28/83	46.00	1448.40	11/28/89	45.01	1449.39
08/02/83	55.22	1439.18			
08/30/83	50.74	1443.66	04/04/90	43.01	1451.39
09/29/83	46.78	1447.62	04/30/90	42.80	1451.60
10/30/83	44.88	1449.52	05/31/90	43.89	1450.51
11/27/83	43.94	1450.46	06/30/90	43.56	1450.84
			07/28/90	49.77	1444.63
04/04/84	41.98	1452.42	08/29/90	53.58	1440.82
04/30/84	41.60	1452.80	09/27/90	50.36	1444.04
05/31/84	43.63	1450.77	10/28/90	47.19	1447.21
07/01/84	44.27	1450.13	11/27/90	45.80	1448.60
08/02/84	53.65	1440.75			

151-062-12DCC

Spiritwood Aquifer

LS Elev (msl,ft)=1511.1

SI (ft.)=235-238

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
12/15/78	61.74	1449.36	09/29/84	60.70	1450.40
05/18/79	59.97	1451.13	10/29/84	58.14	1452.96
06/13/79	63.08	1448.02	12/06/84	56.57	1454.53
07/11/79	64.33	1446.77	04/28/85	54.62	1456.48
08/07/79	71.01	1440.09	05/28/85	59.28	1451.82
09/20/79	65.05	1446.05	06/29/85	55.60	1455.50
10/03/79	63.20	1447.90	07/27/85	67.33	1443.77
11/01/79	61.40	1449.70	08/29/85	60.76	1450.34
12/18/79	59.38	1451.72	09/28/85	58.11	1452.99
			10/29/85	56.76	1454.34
04/08/80	57.70	1453.40			
05/06/80	60.56	1450.54	03/31/86	54.28	1456.82
06/05/80	66.73	1444.37	04/28/86	54.34	1456.76
07/02/80	72.22	1438.88	05/31/86	57.73	1453.37
07/30/80	75.21	1435.89	07/01/86	65.01	1446.09
08/28/80	66.48	1444.62	07/30/86	58.68	1452.42
09/24/80	63.05	1448.05	08/29/86	60.40	1450.70
10/23/80	61.27	1449.83	09/29/86	57.35	1453.75
11/21/80	60.17	1450.93	10/31/86	56.04	1455.06
12/23/80	59.45	1451.65			
			04/28/87	53.90	1457.20
04/09/81	57.87	1453.23	05/30/87	55.34	1455.76
05/05/81	57.64	1453.46	07/02/87	55.87	1455.23
06/04/81	58.82	1452.28	07/31/87	55.42	1455.68
06/30/81	58.05	1453.05	08/31/87	55.09	1456.01
07/29/81	62.08	1449.02	10/01/87	54.21	1456.89
08/27/81	66.10	1445.00	10/29/87	53.02	1458.08
09/24/81	61.83	1449.27	11/29/87	52.60	1458.50
10/23/81	59.50	1451.60			
11/18/81	58.50	1452.60	03/30/88	51.71	1459.39
12/31/81	57.52	1453.58	04/29/88	52.92	1458.18
			05/30/88	53.99	1457.11
04/15/82	56.20	1454.90	06/28/88	67.59	1443.51
05/28/82	55.76	1455.34	07/31/88	68.04	1443.06
06/24/82	59.26	1451.84	08/29/88	62.66	1448.44
08/01/82	62.53	1448.57	09/30/88	58.91	1452.19
09/04/82	64.26	1446.84	10/28/88	56.89	1454.21
09/29/82	60.80	1450.30			
11/02/82	58.00	1453.10	04/27/89	53.60	1457.50
12/01/82	56.87	1454.23	05/31/89	54.44	1456.66
			06/27/89	59.36	1451.74
04/05/83	55.01	1456.09	07/29/89	69.34	1441.76
05/02/83	54.69	1456.41	08/30/89	65.79	1445.31
06/04/83	57.26	1453.84	09/30/89	59.89	1451.21
06/28/83	60.46	1450.64	10/31/89	58.29	1452.81
08/02/83	67.78	1443.32	11/29/89	57.12	1453.98
08/30/83	62.07	1449.03			
09/29/83	58.63	1452.47	04/04/90	55.25	1455.85
10/30/83	56.91	1454.19	04/30/90	55.29	1455.81
11/27/83	56.08	1455.02	05/31/90	57.73	1453.37
			06/30/90	56.11	1454.99
04/04/84	54.85	1456.25	07/28/90	65.71	1445.39
04/30/84	53.86	1457.24	08/29/90	64.95	1446.15
05/31/84	58.18	1452.92	09/27/90	61.74	1449.36
06/30/84	57.16	1453.94	10/28/90	59.24	1451.86
07/31/84	66.57	1444.53	11/27/90	58.03	1453.07
08/30/84	67.15	1443.95			

151-062-13CBB

Spiritwood Aquifer

IS Elev (msl, ft) = 1496.2

SI (ft.) = 238-241

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
12/14/78	47.20	1449.00	08/31/84	55.18	1441.02
05/17/79	45.49	1450.71	09/29/84	47.31	1448.89
06/01/79	45.33	1450.87	10/29/84	43.84	1452.36
06/13/79	51.17	1445.03	12/06/84	42.07	1454.13
06/25/79	48.30	1447.90	04/28/85	40.16	1456.04
07/11/79	56.23	1439.97	05/28/85	48.09	1448.11
08/08/79	61.95	1434.25	06/29/85	41.96	1454.24
08/17/79	58.92	1437.28	07/27/85	61.55	1434.65
09/20/79	51.40	1444.80	08/29/85	47.36	1448.84
10/03/79	49.10	1447.10	09/28/85	44.00	1452.20
11/01/79	46.96	1449.24	10/29/85	42.43	1453.77
12/18/79	44.70	1451.50			
			03/31/86	39.91	1456.29
04/04/80	42.94	1453.26	04/28/86	39.42	1456.78
05/06/80	47.07	1449.13	05/31/86	44.59	1451.61
06/05/80	54.26	1441.94	07/01/86	57.39	1438.81
07/02/80	62.68	1433.52	07/30/86	45.22	1450.98
07/30/80	66.48	1429.72	08/29/86	47.43	1448.77
08/29/80	52.94	1443.26	09/29/86	43.24	1452.96
09/24/80	48.74	1447.46	10/31/86	41.62	1454.58
10/23/80	46.68	1449.52			
11/21/80	45.49	1450.71	04/28/87	38.82	1457.38
12/23/80	44.70	1451.50	05/30/87	41.39	1454.81
			07/02/87	42.27	1453.93
04/09/81	43.17	1453.03	07/31/87	41.40	1454.80
05/05/81	42.89	1453.31	08/31/87	41.00	1455.20
06/30/81	43.50	1452.70	10/01/87	39.37	1456.83
07/29/81	49.70	1446.50	10/29/87	38.60	1457.60
08/27/81	54.10	1442.10	11/28/87	38.24	1457.96
09/25/81	49.77	1446.43			
10/23/81	45.10	1451.10	03/30/88	37.22	1458.98
11/18/81	43.97	1452.23	04/29/88	40.80	1455.40
12/31/81	41.55	1454.65	05/30/88	41.01	1455.19
			06/28/88	61.74	1434.46
04/15/82	41.55	1454.65	07/31/88	58.50	1437.70
05/28/82	41.10	1455.10	08/29/88	50.04	1446.16
06/24/82	46.85	1449.35	09/30/88	45.51	1450.69
08/01/82	53.90	1442.30	10/28/88	42.73	1453.47
09/04/82	53.43	1442.77			
09/29/82	47.00	1449.20	04/27/89	39.36	1456.84
11/02/82	43.66	1452.54	05/31/89	40.24	1455.96
11/30/82	42.35	1453.85	06/27/89	49.49	1446.71
			07/29/89	59.29	1436.91
04/05/83	40.40	1455.80	08/30/89	54.20	1442.00
05/01/83	40.16	1456.04	09/29/89	46.23	1449.97
06/04/83	44.66	1451.54	10/31/89	43.97	1452.23
06/28/83	49.55	1446.65	11/28/89	42.84	1453.36
08/02/83	57.60	1438.60			
08/30/83	48.82	1447.38	04/04/90	40.87	1455.33
09/29/83	44.53	1451.67	04/30/90	40.69	1455.51
10/30/83	42.53	1453.67	05/31/90	44.14	1452.06
11/27/83	41.61	1454.59	06/30/90	41.83	1454.37
			07/28/90	57.54	1438.66
04/04/84	39.68	1456.52	08/30/90	52.16	1444.04
04/30/84	39.48	1456.72	09/27/90	48.76	1447.44
05/31/84	48.29	1447.91	10/28/90	45.05	1451.15
07/01/84	43.09	1453.11	11/27/90	43.60	1452.60
07/31/84	59.20	1437.00			

151-062-14AAA Spiritwood Aquifer			LS Elev (msl, ft)=1511.5 SI (ft.)=218-224		
Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/27/77	78.24	1433.26	06/04/83	58.95	1452.55
08/05/77	77.75	1433.75	06/28/83	62.31	1449.19
08/19/77	77.33	1434.17	08/02/83	71.36	1440.14
08/30/77	72.85	1438.65	08/30/83	63.92	1447.58
09/14/77	68.02	1443.48	09/29/83	59.89	1451.61
09/28/77	66.23	1445.27	10/30/83	57.90	1453.60
11/08/77	63.15	1448.35	11/21/83	56.97	1454.53
05/04/78	61.06	1450.44	04/04/84	55.06	1456.44
06/01/78	61.42	1450.08	04/30/84	54.67	1456.83
06/28/78	71.89	1439.61	05/31/84	60.47	1451.03
07/07/78	69.99	1441.51	06/30/84	58.75	1452.75
07/28/78	75.99	1435.51	07/31/84	71.80	1439.70
08/09/78	82.46	1429.04	08/30/84	70.28	1441.22
09/01/78	74.35	1437.15	09/29/84	62.31	1449.19
09/29/78	67.35	1444.15	10/29/84	59.16	1452.34
12/15/78	62.74	1448.76	12/06/84	57.48	1454.02
05/18/79	61.12	1450.38	04/28/85	55.36	1456.14
06/13/79	65.02	1446.48	05/28/85	61.06	1450.44
07/11/79	67.95	1443.55	06/29/85	57.14	1454.36
08/07/79	74.50	1437.00	07/27/85	72.26	1439.24
09/20/79	66.56	1444.94	08/29/85	62.58	1448.92
10/03/79	64.35	1447.15	09/28/85	59.20	1452.30
11/01/79	62.25	1449.25	10/29/85	57.61	1453.89
12/18/79	60.05	1451.45	03/31/86	55.86	1455.64
04/08/80	58.24	1453.26	04/28/86	55.38	1456.12
05/06/80	61.87	1449.63	05/31/86	58.59	1452.91
06/05/80	68.11	1443.39	07/01/86	69.05	1442.45
07/02/80	75.87	1435.63	07/30/86	60.89	1450.61
07/30/80	79.43	1432.07	08/29/86	62.89	1448.61
08/28/80	68.20	1443.30	09/29/86	59.03	1452.47
09/24/80	64.10	1447.40	10/31/86	57.50	1454.00
10/23/80	62.05	1449.45	04/28/87	54.77	1456.73
11/21/80	60.88	1450.62	05/30/87	57.16	1454.34
12/23/80	60.10	1451.40	07/02/87	57.75	1453.75
04/09/81	58.56	1452.94	07/31/87	57.19	1454.31
05/05/81	58.28	1453.22	08/31/87	56.84	1454.66
06/04/81	59.68	1451.82	10/01/87	55.21	1456.29
06/30/81	58.85	1452.65	10/29/87	54.50	1457.00
07/29/81	63.68	1447.82	11/28/87	54.13	1457.37
08/27/81	68.32	1443.18	03/30/88	53.13	1458.37
09/24/81	63.17	1448.33	04/29/88	54.81	1456.69
10/23/81	60.46	1451.04	05/30/88	55.60	1455.90
11/18/81	59.35	1452.15	06/28/88	72.92	1438.58
12/31/81	58.24	1453.26	07/31/88	72.56	1438.94
04/15/82	56.92	1454.58	08/29/88	65.70	1445.80
05/28/82	56.47	1455.03	09/30/88	55.89	1455.61
06/24/82	61.03	1450.47	10/28/88	58.61	1452.89
08/01/82	65.23	1446.27	04/27/89	55.28	1456.22
09/04/82	66.89	1444.61	05/31/89	56.01	1455.49
09/29/82	62.24	1449.26	06/27/89	63.21	1448.29
11/02/82	58.97	1452.53	07/29/89	74.14	1437.36
11/30/82	57.71	1453.79	08/30/89	68.90	1442.60
04/05/83	55.75	1455.75	09/29/89	62.12	1449.38
05/01/83	55.60	1455.90	10/31/89	59.82	1451.68

**151-062-14AAA**

**(Continued)**

**Spiritwood Aquifer**

**LS Elev (msl, ft)=1511.5**

**SI (ft.)=218-224**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/28/89	58.72	1452.78	07/28/90	69.39	1442.11
04/04/90	56.40	1455.10	08/29/90	67.99	1443.51
04/30/90	56.60	1454.90	09/27/90	64.35	1447.15
05/31/90	59.62	1451.88	10/28/90	60.89	1450.61
06/30/90	57.39	1454.11	11/27/90	59.50	1452.00

**151-062-15AAA**  
**Spiritwood Aquifer**

I.S Elev (msl,ft)=1492.1

SI (ft.)=197-203

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/27/77	59.87	1432.23	08/30/83	45.89	1446.21
08/04/77	58.79	1433.31	09/29/83	41.56	1450.54
08/19/77	59.14	1432.96	10/30/83	39.60	1452.50
08/30/77	55.40	1436.70	11/27/83	38.68	1453.42
09/14/77	50.31	1441.79			
09/28/77	48.43	1443.67	04/04/84	36.79	1455.31
11/08/77	45.20	1446.90	04/30/84	36.39	1455.71
			05/31/84	40.83	1451.27
05/04/78	43.10	1449.00	07/01/84	39.87	1452.23
06/01/78	43.43	1448.67	08/02/84	50.88	1441.22
06/28/78	52.27	1439.83	08/31/84	51.92	1440.18
07/07/78	52.25	1439.85	09/29/84	44.34	1447.76
07/28/78	56.72	1435.38	10/31/84	40.78	1451.32
08/09/78	62.78	1429.32	12/07/84	39.09	1453.01
09/01/78	56.93	1435.17			
09/29/78	49.55	1442.55	04/28/85	36.97	1455.13
			05/28/85	41.60	1450.50
05/17/79	43.00	1449.10	06/29/85	38.86	1453.24
06/13/79	45.90	1446.20	07/27/85	52.79	1439.31
07/11/79	47.75	1444.35	08/29/85	44.41	1447.69
08/07/79	53.74	1438.36	09/29/85	40.95	1451.15
09/19/79	48.42	1443.68	10/29/85	39.10	1453.00
10/03/79	46.11	1445.99			
11/01/79	43.94	1448.16	03/31/86	37.00	1455.10
12/18/79	41.60	1450.50	04/28/86	36.48	1455.62
			05/31/86	38.83	1453.27
04/07/80	39.68	1452.42	07/01/86	48.39	1443.71
05/05/80	43.69	1448.41	07/30/86	42.24	1449.86
06/04/80	52.27	1439.83	08/30/86	44.38	1447.72
07/01/80	56.88	1435.22	09/29/86	40.31	1451.79
07/30/80	60.95	1431.15	10/31/86	38.72	1453.38
08/28/80	50.04	1442.06			
09/24/80	45.71	1446.39	04/28/87	35.93	1456.17
10/23/80	48.60	1443.50	05/30/87	38.40	1453.70
11/21/80	42.36	1449.74	07/02/87	39.11	1452.99
12/23/80	41.56	1450.54	07/31/87	38.49	1453.61
			08/30/87	38.18	1453.92
04/10/81	39.99	1452.11	09/30/87	36.49	1455.61
05/05/81	40.76	1451.34	10/29/87	35.74	1456.36
06/04/81	41.30	1450.80	11/28/87	35.35	1456.75
06/30/81	40.37	1451.73			
07/28/81	44.04	1448.06	04/29/88	34.91	1457.19
08/27/81	49.68	1442.42	05/30/88	36.14	1455.96
09/24/81	44.86	1447.24	06/28/88	53.06	1439.04
10/23/81	42.08	1450.02	07/31/88	56.25	1435.85
12/31/81	39.76	1452.34	08/29/88	47.58	1444.52
			09/30/88	42.43	1449.67
04/15/82	38.42	1453.68	10/28/88	40.17	1451.93
05/28/82	37.97	1454.13			
06/24/82	41.50	1450.60	04/27/89	36.76	1455.34
08/01/82	39.68	1452.42	06/01/89	37.48	1454.62
09/04/82	48.05	1444.05	06/26/89	42.39	1449.71
09/29/82	45.00	1447.10	07/29/89	56.42	1435.68
11/02/82	40.50	1451.60	08/29/89	50.27	1441.83
12/01/82	39.23	1452.87	09/29/89	43.76	1448.34
			10/30/89	41.35	1450.75
04/05/83	37.31	1454.79	11/28/89	40.23	1451.87
06/04/83	40.08	1452.02			
06/28/83	42.38	1449.72	04/04/90	38.24	1453.86
08/02/83	53.14	1438.96	04/30/90	38.05	1454.05

**151-062-15AAA**                   **(Continued)**                   **LS Elev (msl,ft)=1492.1**  
**Spiritwood Aquifer**   **SI (ft.)=197-203**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/31/90	40.34	1451.76	09/27/90	46.17	1445.93
06/30/90	39.06	1453.04	10/28/90	42.47	1449.63
07/28/90	49.03	1443.07	11/27/90	42.08	1450.02
08/29/90	49.89	1442.21			

151-062-15BBBB

Spiritwood Aquifer

LS Elev (msl,ft)=1494.9

SI (ft.)=198-204

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/27/77	62.24	1432.66	05/02/83	39.09	1455.81
08/05/77	61.38	1433.52	06/04/83	41.50	1453.40
08/19/77	61.82	1433.08	06/28/83	43.42	1451.48
08/30/77	58.86	1436.04	08/02/83	53.07	1441.83
09/14/77	53.86	1441.04	08/30/83	47.50	1447.40
09/28/77	51.95	1442.95	09/29/83	43.28	1451.62
11/08/77	48.70	1446.20	10/30/83	41.16	1453.74
			11/27/83	40.22	1454.68
05/04/78	46.57	1448.33			
06/01/78	46.95	1447.95	04/04/84	38.28	1456.62
06/28/78	54.67	1440.23	04/30/84	37.83	1457.07
07/07/78	55.55	1439.35	05/31/84	40.98	1453.92
07/28/78	59.10	1435.80	07/01/84	40.66	1454.24
08/09/78	64.76	1430.14	08/02/84	51.11	1443.79
09/01/78	60.44	1434.46	08/31/84	52.33	1442.57
09/28/78	53.17	1441.73	09/29/84	45.49	1449.41
12/15/78	48.20	1446.70	10/31/84	41.94	1452.96
			12/06/84	40.37	1454.53
05/17/79	46.39	1448.51			
06/13/79	48.60	1446.30	04/28/85	38.16	1456.74
07/11/79	50.07	1444.83	05/29/85	41.66	1453.24
08/07/79	55.67	1439.23	06/29/85	39.69	1455.21
09/20/79	51.53	1443.37	07/27/85	51.20	1443.70
10/03/79	49.23	1445.67	08/29/85	44.99	1449.91
11/01/79	48.04	1446.86	09/29/85	41.59	1453.31
12/18/79	44.70	1450.20	10/31/85	39.79	1455.11
04/07/80	42.78	1452.12	03/31/86	37.45	1457.45
05/05/80	45.90	1449.00	04/28/86	36.98	1457.92
06/04/80	54.70	1440.20	05/31/86	38.30	1456.60
07/01/80	58.58	1436.32	07/01/86	46.39	1448.51
07/30/80	63.05	1431.85	07/30/86	42.03	1452.87
08/28/80	52.95	1441.95	08/30/86	43.83	1451.07
09/24/80	48.52	1446.38	09/29/86	43.28	1451.62
10/23/80	46.30	1448.60	10/31/86	41.78	1453.12
11/21/80	45.05	1449.85			
12/23/80	44.20	1450.70	04/28/87	38.89	1456.01
			05/30/87	41.28	1453.62
04/10/81	42.49	1452.41	07/02/87	41.90	1453.00
05/05/81	42.19	1452.71	07/31/87	41.35	1453.55
06/04/81	41.62	1453.28	08/30/87	40.97	1453.93
06/30/81	42.73	1452.17	09/30/87	39.31	1455.59
07/28/81	45.99	1448.91	10/29/87	38.53	1456.37
08/27/81	51.10	1443.80	11/28/87	38.15	1456.75
09/24/81	47.06	1447.84			
10/23/81	44.20	1450.70	03/30/88	37.08	1457.82
11/18/81	43.10	1451.80	04/29/88	37.43	1457.47
12/30/81	42.00	1452.90	05/30/88	38.68	1456.22
			06/28/88	53.16	1441.74
04/15/82	40.63	1454.27	07/31/88	54.24	1440.66
05/28/82	40.20	1454.70	08/29/88	49.46	1445.44
06/24/82	42.68	1452.22	09/30/88	44.59	1450.31
08/01/82	45.51	1449.39	10/28/88	42.39	1452.51
09/04/82	49.89	1445.01			
09/29/82	45.86	1449.04	04/27/89	38.76	1456.14
11/02/82	42.56	1452.34	06/01/89	39.39	1455.51
12/01/82	41.29	1453.61	06/26/89	43.40	1451.50
			07/29/89	57.38	1437.52
04/05/83	38.95	1455.95	08/29/89	51.59	1443.31
04/06/83	38.95	1455.95	09/29/89	45.54	1449.36

**151-062-15BBB**                           **(Continued)**

**Spiritwood Aquifer**

**LS Elev (msl,ft)=1494.9**

**SI (ft.)=198-204**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/30/89	43.16	1451.74	06/30/90	40.57	1454.33
11/28/89	42.05	1452.85	07/28/90	48.82	1446.08
			08/29/90	50.88	1444.02
04/04/90	39.93	1454.97	09/27/90	47.42	1447.48
04/30/90	39.71	1455.19	10/28/90	43.88	1451.02
05/31/90	41.46	1453.44	11/27/90	42.52	1452.38

151-062-15CCC

Warwick Aquifer

LS Elev (msl, ft)=1479.1

SI (ft.)=18-21

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/20/79	8.26	1470.84	04/28/85	8.23	1470.87
10/03/79	8.50	1470.60	05/29/85	8.10	1471.00
11/01/79	8.64	1470.46	06/29/85	8.19	1470.91
12/18/79	8.76	1470.34	07/27/85	8.80	1470.30
04/08/80	7.45	1471.65	08/29/85	9.29	1469.81
05/06/80	7.76	1471.34	09/29/85	9.40	1469.70
06/04/80	8.30	1470.80	10/31/85	8.86	1470.24
07/02/80	8.70	1470.40			
07/30/80	9.26	1469.84	04/01/86	7.67	1471.43
08/28/80	9.47	1469.63	04/28/86	7.03	1472.07
09/24/80	9.04	1470.06	05/31/86	7.34	1471.76
10/23/80	8.91	1470.19	07/01/86	8.44	1470.66
11/21/80	8.67	1470.43	08/01/86	8.68	1470.42
12/23/80	8.65	1470.45	08/30/86	9.16	1469.94
			09/29/86	9.46	1469.64
04/09/81	7.83	1471.27	10/31/86	9.41	1469.69
05/05/81	7.65	1471.45			
06/04/81	7.74	1471.36	04/28/87	5.95	1473.15
06/30/81	6.27	1472.83	05/30/87	6.65	1472.45
07/29/81	8.50	1470.60	07/02/87	7.72	1471.38
08/27/81	8.20	1470.90	07/31/87	6.61	1472.49
09/24/81	8.61	1470.49	08/29/87	7.89	1471.21
10/23/81	8.64	1470.46	09/30/87	8.41	1470.69
11/18/81	8.56	1470.54	10/29/87	8.52	1470.58
12/31/81	8.68	1470.42	11/28/87	8.59	1470.51
04/15/82	6.20	1472.90	03/30/88	7.88	1471.22
05/28/82	7.00	1472.10	04/29/88	7.90	1471.20
06/24/82	7.00	1472.10	05/30/88	8.25	1470.85
08/01/82	7.67	1471.43	06/28/88	9.07	1470.03
09/04/82	8.54	1470.56	07/31/88	9.72	1469.38
09/29/82	8.87	1470.23	08/29/88	10.07	1469.03
11/02/82	8.19	1470.91	09/30/88	10.32	1468.78
12/01/82	8.20	1470.90	10/28/88	10.35	1468.75
04/05/83	6.25	1472.85	04/27/89	8.40	1470.70
05/02/83	7.60	1471.50	06/01/89	8.89	1470.21
06/04/83	7.59	1471.51	06/26/89	9.24	1469.86
06/28/83	7.90	1471.20	07/29/89	9.96	1469.14
08/02/83	8.60	1470.50	08/29/89	10.44	1468.66
08/30/83	7.00	1472.10	09/29/89	10.60	1468.50
09/30/83	7.52	1471.58	10/30/89	10.63	1468.47
10/31/83	7.57	1471.53	11/28/89	10.63	1468.47
11/27/83	7.63	1471.47			
			04/04/90	10.30	1468.80
04/04/84	6.14	1472.96	04/30/90	10.37	1468.73
04/30/84	5.60	1473.50	05/31/90	10.29	1468.81
05/31/84	6.49	1472.61	06/30/90	9.98	1469.12
07/01/84	6.49	1472.61	07/28/90	10.14	1468.96
08/02/84	7.91	1471.19	08/29/90	10.57	1468.53
08/31/84	8.63	1470.47	09/27/90	10.82	1468.28
09/29/84	9.00	1470.10	10/28/90	10.82	1468.28
10/31/84	8.71	1470.39	11/27/90	10.78	1468.32
12/06/84	8.71	1470.39			

**151-062-16BCA**

Spiritwood Aquifer

LS Elev (msl, ft)=1505

SI (ft.)=178-198

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/19/77	64.08	1440.92	11/01/79	43.44	1461.56
09/14/77	48.45	1456.55	12/18/79	43.05	1461.95
09/28/77	46.87	1458.13			
05/04/78	43.50	1461.50	04/08/80	43.17	1461.83
06/28/78	53.27	1451.73	05/06/80	42.93	1462.07
09/01/78	54.17	1450.83	06/04/80	82.44	1422.56
09/28/78	46.67	1458.33	08/28/80	51.74	1453.26
			09/24/80	45.40	1459.60
			12/23/80	44.00	1461.00
05/17/79	44.92	1460.08			
06/13/79	45.15	1459.85	04/09/81	44.27	1460.73
08/07/79	50.10	1454.90	06/30/81	43.54	1461.46
09/20/79	45.66	1459.34	09/24/81	43.47	1461.53
10/03/79	44.08	1460.92	12/30/81	43.58	1461.42

**151-062-17ABD1**

Spiritwood Aquifer

LS Elev (msl, ft)=1500

SI (ft.)=178-198

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/17/79	32.31	1467.69			

151-062-19AAA

Spiritwood Aquifer

LS Elev (msl, ft)=1486

SI (ft.)=133-138

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/08/79	21.83	1464.17	04/28/85	20.58	1465.42
09/20/79	21.68	1464.32	05/29/85	21.00	1465.00
10/03/79	21.34	1464.66	06/29/85	20.48	1465.52
11/01/79	21.15	1464.85	07/27/85	22.60	1463.40
12/18/79	21.07	1464.93	08/29/85	21.71	1464.29
04/07/80	21.14	1464.86	09/29/85	21.27	1464.73
05/06/80	20.96	1465.04	10/31/85	20.92	1465.08
06/09/80	26.08	1459.92			
07/01/80	24.58	1461.42	04/01/86	20.18	1465.82
07/30/80	25.82	1460.18	04/28/86	19.80	1466.20
08/28/80	24.27	1461.73	05/31/86	19.71	1466.29
09/24/80	22.76	1463.24	07/01/86	21.05	1464.95
11/21/80	22.06	1463.94	08/01/86	20.52	1465.48
12/23/80	21.95	1464.05	08/30/86	20.67	1465.33
			09/30/86	20.33	1465.67
04/10/81	21.42	1464.58	11/01/86	20.29	1465.71
05/05/81	21.24	1464.76			
06/04/81	21.16	1464.84	04/30/87	18.83	1467.17
06/30/81	20.86	1465.14	05/31/87	19.29	1466.71
07/28/81	23.53	1462.47	07/02/87	21.11	1464.89
08/27/81	22.39	1463.61	07/31/87	19.23	1466.77
09/24/81	21.04	1464.96	08/29/87	20.09	1465.91
10/23/81	20.80	1465.20	09/30/87	19.42	1466.58
11/18/81	20.73	1465.27	10/30/87	19.37	1466.63
12/30/81	20.70	1465.30	11/28/87	19.20	1466.80
04/15/82	20.24	1465.76	03/30/88	19.29	1466.71
05/28/82	20.05	1465.95	04/29/88	19.27	1466.73
06/25/82	20.65	1465.35	05/30/88	19.85	1466.15
08/02/82	21.28	1464.72	06/28/88	25.27	1460.73
09/04/82	21.92	1464.08	08/02/88	25.25	1460.75
09/29/82	21.14	1464.86	08/29/88	24.39	1461.61
11/02/82	20.64	1465.36	09/30/88	21.94	1464.06
12/01/82	20.63	1465.37	10/29/88	21.64	1464.36
04/05/83	20.05	1465.95	04/27/89	21.05	1464.95
05/02/83	19.75	1466.25	06/01/89	20.84	1465.16
06/04/83	20.04	1465.96	06/26/89	23.85	1462.15
06/28/83	20.11	1465.89	07/29/89	26.09	1459.91
08/02/83	22.28	1463.72	08/29/89	23.26	1462.74
08/31/83	20.62	1465.38	09/29/89	22.51	1463.49
09/30/83	20.03	1465.97	10/30/89	22.30	1463.70
10/31/83	19.87	1466.13	11/28/89	22.24	1463.76
11/27/83	19.87	1466.13			
			04/04/90	22.25	1463.75
04/04/84	19.60	1466.40	04/30/90	22.13	1463.87
04/30/84	19.38	1466.62	06/01/90	23.77	1462.23
06/01/84	20.26	1465.74	06/30/90	22.54	1463.46
07/01/84	20.04	1465.96	07/28/90	25.83	1460.17
08/02/84	22.62	1463.38	08/29/90	23.93	1462.07
08/31/84	23.73	1462.27	09/27/90	23.18	1462.82
09/29/84	21.20	1464.80	10/29/90	22.79	1463.21
10/31/84	20.95	1465.05	11/27/90	22.66	1463.34
12/06/84	20.79	1465.21			

151-062-19ABB

Warwick Aquifer

LS Elev (msl, ft)=1484.6

SI (ft.)=30-33

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/01/78	19.17	1465.43	06/01/84	18.01	1466.59
06/28/78	19.08	1465.52	07/01/84	18.06	1466.54
07/07/78	19.04	1465.56	08/02/84	18.09	1466.51
07/28/78	19.07	1465.53	08/31/84	18.18	1466.42
08/09/78	19.09	1465.51	09/29/84	18.22	1466.38
09/01/78	19.04	1465.56	10/31/84	18.42	1466.18
09/28/78	19.20	1465.40	12/07/84	18.42	1466.18
05/17/79	17.98	1466.62	04/28/85	18.58	1466.02
06/13/79	18.92	1465.68	05/29/85	18.59	1466.01
07/11/79	17.96	1466.64	06/29/85	18.72	1465.88
08/07/79	17.87	1466.73	07/27/85	18.69	1465.91
09/20/79	18.15	1466.45	08/29/85	18.74	1465.86
10/03/79	19.92	1464.68	09/29/85	18.83	1465.77
11/01/79	20.00	1464.60	10/31/85	18.75	1465.85
12/18/79	18.34	1466.26		04/01/86	18.59
				04/28/86	18.23
04/07/80	18.07	1466.53		05/31/86	18.29
05/06/80	18.60	1466.00		07/01/86	18.19
06/04/80	18.69	1465.91		08/01/86	18.20
07/01/80	18.80	1465.80		08/30/86	18.20
07/30/80	18.85	1465.75		09/30/86	18.29
08/28/80	18.91	1465.69		11/01/86	18.39
09/24/80	18.98	1465.62			1466.21
10/23/80	19.05	1465.55		04/30/87	16.99
11/21/80	19.09	1465.51		05/31/87	17.23
12/23/80	19.13	1465.47		07/02/87	17.25
04/08/81	18.85	1465.75		07/31/87	16.89
04/10/81	18.89	1465.71		08/29/87	16.65
06/04/81	18.89	1465.71		09/30/87	16.68
06/30/81	18.89	1465.71		10/30/87	16.82
07/28/81	18.79	1465.81		11/28/87	16.90
08/27/81	18.65	1465.95			1467.35
09/24/81	18.64	1465.96		03/30/88	17.19
10/23/81	18.65	1465.95		04/29/88	17.19
11/18/81	18.67	1465.93		05/30/88	17.32
12/30/81	18.72	1465.88		06/28/88	17.19
				08/02/88	17.52
04/15/82	18.58	1466.02		08/29/88	17.64
05/28/82	18.33	1466.27		09/30/88	17.72
06/25/82	18.34	1466.26		10/29/88	17.89
08/02/82	18.00	1466.60			1466.71
09/04/82	18.36	1466.24		04/27/89	18.29
09/29/82	18.45	1466.15		06/01/89	18.40
11/02/82	18.52	1466.08		06/26/89	18.46
12/01/82	18.47	1466.13		07/29/89	18.56
				08/29/89	18.67
04/05/83	18.27	1466.33		09/29/89	18.60
05/02/83	17.81	1466.79		10/30/89	18.89
06/04/83	17.95	1466.65		11/28/89	18.99
06/28/83	18.00	1466.60			1465.61
08/02/83	18.03	1466.57		04/04/90	19.41
08/31/83	17.89	1466.71		04/30/90	19.46
09/30/83	17.79	1466.81		06/01/90	18.49
10/31/83	17.76	1466.84		06/30/90	19.60
11/27/83	17.81	1466.79		07/28/90	19.62
				08/29/90	19.68
04/04/84	18.08	1466.52		09/27/90	19.74
04/30/84	18.03	1466.57		10/29/90	19.78
				11/27/90	19.87
					1464.73

151-062-19ADD1

Warwick Aquifer

LS Elev (msl, ft)=1482.6

SI (ft.)=33-38

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/17/79	17.50	1465.10	10/31/84	17.51	1465.09
06/13/79	17.78	1464.82	12/06/84	17.40	1465.20
07/13/79	17.14	1465.46	04/28/85	17.34	1465.26
08/07/79	17.50	1465.10	05/29/85	17.21	1465.39
09/19/79	17.78	1464.82	06/29/85	17.15	1465.45
10/03/79	17.82	1464.78	07/27/85	17.36	1465.24
11/01/79	17.91	1464.69	08/29/85	17.65	1464.95
12/18/79	18.13	1464.47	09/29/85	17.69	1464.91
04/07/80	18.43	1464.17	10/31/85	17.41	1465.19
05/06/80	17.88	1464.72	04/01/86	17.07	1465.53
06/04/80	17.93	1464.67	04/28/86	16.71	1465.89
07/01/80	18.18	1464.42	05/31/86	16.46	1466.14
07/30/80	18.50	1464.10	07/01/86	16.70	1465.90
08/28/80	18.90	1463.70	08/01/86	16.81	1465.79
09/24/80	18.94	1463.66	08/30/86	16.96	1465.64
10/23/80	18.77	1463.83	09/30/86	17.06	1465.54
11/21/80	18.62	1463.98	11/01/86	17.08	1465.52
12/23/80	18.55	1464.05	04/10/81	18.31	1464.29
05/05/81	18.08	1464.52	05/31/87	16.13	1466.47
06/04/81	17.83	1464.77	07/02/87	16.35	1466.25
06/29/81	17.60	1465.00	07/31/87	15.85	1466.75
07/28/81	17.35	1465.25	08/29/87	15.99	1466.61
08/27/81	17.50	1465.10	09/30/87	16.17	1466.43
09/24/81	17.60	1465.00	10/30/87	16.34	1466.26
10/23/81	17.50	1465.10	11/28/87	16.37	1466.23
11/18/81	17.50	1465.10	12/30/81	17.50	1465.10
04/15/82	17.40	1465.20	03/30/88	16.41	1466.19
05/28/82	17.05	1465.55	04/29/88	16.27	1466.33
06/25/82	17.06	1465.54	05/30/88	16.40	1466.20
08/02/82	17.13	1465.47	06/28/88	16.70	1465.90
09/04/82	17.50	1465.10	08/02/88	17.25	1465.35
09/29/82	17.60	1465.00	08/29/88	17.71	1464.89
11/02/82	17.48	1465.12	09/30/88	18.02	1464.58
12/01/82	17.36	1465.24	10/29/88	18.16	1464.44
04/05/83	17.31	1465.29	04/27/89	17.96	1464.64
05/02/83	16.90	1465.70	06/01/89	17.62	1464.98
06/04/83	16.85	1465.75	06/26/89	17.62	1464.98
06/28/83	16.97	1465.63	07/29/89	18.19	1464.41
08/02/83	17.18	1465.42	08/29/89	18.68	1463.92
08/31/83	17.34	1465.26	09/29/89	18.82	1463.78
09/30/83	17.12	1465.48	10/30/89	18.90	1463.70
10/31/83	16.98	1465.62	11/28/89	18.84	1463.76
11/27/83	17.00	1465.60	04/04/90	19.12	1463.48
04/04/84	16.84	1465.76	04/30/90	19.00	1463.60
04/30/84	16.65	1465.95	06/01/90	18.51	1464.09
06/01/84	16.67	1465.93	06/30/90	18.60	1464.00
07/01/84	16.65	1465.95	07/28/90	18.58	1464.02
08/02/84	16.99	1465.61	08/29/90	19.00	1463.60
08/31/84	18.29	1464.31	09/27/90	19.27	1463.33
09/29/84	17.52	1465.08	10/29/90	19.35	1463.25
			11/27/90	19.37	1463.23

151-062-19DDA

Warwick Aquifer

LS Elev (msl, ft) = 1468.2

SI (ft.) = 40-45

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/07/80	4.81	1463.39	05/29/85	4.30	1463.90
05/06/80	4.11	1464.09	06/29/85	4.25	1463.95
06/04/80	4.26	1463.94	07/27/85	5.16	1463.04
07/01/80	5.09	1463.11	08/29/85	4.95	1463.25
07/30/80	5.87	1462.33	09/29/85	5.02	1463.18
08/28/80	5.64	1462.56	10/31/85	4.55	1463.65
09/24/80	5.07	1463.13			
10/23/80	4.77	1463.43	04/01/86	4.30	1463.90
11/11/80	4.70	1463.50	04/28/86	3.85	1464.35
12/23/80	5.30	1462.90	05/31/86	4.19	1464.01
			07/01/86	5.00	1463.20
04/10/81	4.28	1463.92	08/01/86	4.75	1463.45
05/05/81	3.89	1464.31	08/30/86	5.22	1462.98
06/04/81	3.63	1464.57	09/30/86	4.91	1463.29
06/29/81	3.39	1464.81	11/01/86	4.95	1463.25
07/28/81	3.38	1464.82			
08/27/81	4.09	1464.11	04/30/87	4.22	1463.98
09/24/81	4.45	1463.75	05/31/87	4.22	1463.98
10/23/81	3.93	1464.27	07/02/87	4.83	1463.37
11/18/81	3.91	1464.29	07/31/87	4.27	1463.93
12/30/81	4.24	1463.96	08/29/87	4.48	1463.72
			09/30/87	4.62	1463.58
04/15/82	3.20	1465.00	10/30/87	4.69	1463.51
05/28/82	3.63	1464.57	11/28/87	4.56	1463.64
06/25/82	3.73	1464.47			
08/02/82	4.28	1463.92	03/30/88	4.00	1464.20
09/04/82	4.93	1463.27	04/29/88	4.45	1463.75
09/29/82	4.84	1463.36	05/30/88	4.82	1463.38
11/02/82	4.24	1463.96	06/28/88	5.69	1462.51
12/01/82	4.29	1463.91	08/02/88	6.44	1461.76
			08/29/88	6.93	1461.27
04/05/83	4.24	1463.96	09/30/88	7.12	1461.08
05/02/83	3.77	1464.43	10/29/88	7.04	1461.16
06/04/83	4.11	1464.09			
06/28/83	4.34	1463.86	04/27/89	5.30	1462.90
08/02/83	4.90	1463.30	06/01/89	5.65	1462.55
08/31/83	4.74	1463.46	06/26/89	6.20	1462.00
09/30/83	4.41	1463.79	07/29/89	7.19	1461.01
10/31/83	4.27	1463.93	08/29/89	7.60	1460.60
11/27/83	4.29	1463.91	09/29/89	7.68	1460.52
			10/30/89	7.27	1460.93
04/04/84	3.26	1464.94	11/28/89	7.43	1460.77
04/30/84	2.99	1465.21			
06/01/84	3.88	1464.32	04/04/90	7.29	1460.91
07/01/84	3.30	1464.90	04/30/90	7.00	1461.20
08/02/84	4.58	1463.62	06/01/90	6.63	1461.57
08/31/84	5.02	1463.18	06/30/90	6.25	1461.95
09/29/84	4.98	1463.22	07/28/90	6.69	1461.51
10/31/84	4.52	1463.68	08/29/90	7.43	1460.77
12/06/84	4.48	1463.72	09/27/90	7.97	1460.23
			10/29/90	7.51	1460.69
04/28/85	4.22	1463.98	11/27/90	7.77	1460.43

151-062-20ABB

Spiritwood Aquifer

LS Elev (msl, ft)=1482.8

SI (ft.)=148-151

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/17/79	17.80	1465.00	10/31/84	17.84	1464.96
06/13/79	17.05	1465.75	12/06/84	17.68	1465.12
07/11/79	19.16	1463.64			
08/07/79	18.60	1464.20	04/28/85	17.32	1465.48
09/19/79	18.47	1464.33	05/29/85	17.88	1464.92
10/03/79	18.23	1464.57	06/29/85	17.42	1465.38
11/01/79	18.05	1464.75	07/27/85	19.72	1463.08
12/18/79	17.96	1464.84	08/29/85	18.44	1464.36
			09/29/85	18.15	1464.65
04/08/80	18.00	1464.80	10/31/85	17.70	1465.10
05/06/80	17.86	1464.94			
06/04/80	22.57	1460.23	04/01/86	17.30	1465.50
07/01/80	21.58	1461.22	04/28/86	16.83	1465.97
07/30/80	22.71	1460.09	05/31/86	16.74	1466.06
08/28/80	20.95	1461.85	07/01/86	17.96	1464.84
09/24/80	19.60	1463.20	08/01/86	17.90	1464.90
10/23/80	19.24	1463.56	08/30/86	17.82	1464.98
11/21/80	18.98	1463.82	09/30/86	17.50	1465.30
12/23/80	18.79	1464.01	11/01/86	17.34	1465.46
04/09/81	18.29	1464.51	04/30/87	15.85	1466.95
05/05/81	18.05	1464.75	05/31/87	16.44	1466.36
06/04/81	17.99	1464.81	07/02/87	18.53	1464.27
06/29/81	17.61	1465.19	07/31/87	16.27	1466.53
07/29/81	19.49	1463.31	08/29/87	17.18	1465.62
08/26/81	18.90	1463.90	09/30/87	16.49	1466.31
09/24/81	17.84	1464.96	10/30/87	16.46	1466.34
10/23/81	17.62	1465.18	11/28/87	16.47	1466.33
11/18/81	17.01	1465.79			
12/30/81	17.52	1465.28	03/30/88	16.35	1466.45
			04/29/88	16.36	1466.44
04/15/82	17.02	1465.78	05/30/88	16.92	1465.88
05/28/82	16.96	1465.84	06/28/88	22.22	1460.58
06/25/82	17.69	1465.11	08/02/88	21.71	1461.09
08/02/82	17.76	1465.04	08/29/88	21.17	1461.63
09/04/82	18.63	1464.17	09/30/88	18.94	1463.86
09/29/82	17.97	1464.83	10/29/88	18.76	1464.04
11/02/82	17.59	1465.21			
12/01/82	17.47	1465.33	04/27/89	18.22	1464.58
			06/01/89	17.92	1464.88
04/05/83	16.82	1465.98	06/26/89	20.84	1461.96
05/02/83	16.44	1466.36	07/29/89	22.82	1459.98
06/04/83	16.86	1465.94	08/29/89	20.35	1462.45
06/28/83	16.97	1465.83	09/29/89	19.63	1463.17
08/02/83	19.11	1463.69	10/30/89	19.44	1463.36
08/31/83	17.45	1465.35	11/28/89	19.35	1463.45
09/30/83	16.93	1465.87			
10/31/83	16.72	1466.08	04/04/90	19.34	1463.46
11/27/83	16.72	1466.08	04/30/90	19.19	1463.61
			06/01/90	20.24	1462.56
04/04/84	16.42	1466.38	06/30/90	19.47	1463.33
04/30/84	16.19	1466.61	07/28/90	22.85	1459.95
06/01/84	17.52	1465.28	08/29/90	20.85	1461.95
07/01/84	16.79	1466.01	09/27/90	20.04	1462.76
08/02/84	19.67	1463.13	10/29/90	19.90	1462.90
08/31/84	20.29	1462.51	11/27/90	19.78	1463.02
09/29/84	17.88	1464.92			

**151-062-20ACA**LS Elev (msl, ft)=  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/14/77	22.32		05/27/79	19.30	
09/28/77	22.02		06/13/79	19.30	
			07/11/79	20.74	
05/04/78	20.40		08/07/79	20.54	
06/28/78	21.50		09/20/79	20.58	
07/07/78	23.02		10/03/79	20.36	
07/27/78	23.90		11/01/79	20.19	
08/09/78	23.02		12/18/79	20.10	
08/31/78	22.89				
09/28/78	21.97		04/08/80	20.00	
12/15/78	21.50		05/06/80	19.69	

**151-062-20BDD**LS Elev (msl, ft)=  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/04/78	19.85		12/18/79	19.60	
06/28/78	19.73				
07/07/78	20.13		04/08/80	19.66	
07/27/78	20.62		05/06/80	19.40	
08/09/78	21.08		07/30/80	21.87	
08/31/78	21.22		10/23/80	20.73	
09/28/78	21.03		12/23/80	20.28	
12/15/78	20.98				
			04/09/81	19.75	
05/17/79	18.10		05/05/81	19.53	
06/13/79	18.25		06/30/81	18.86	
07/11/79	18.83		08/27/81	19.60	
08/07/79	19.35		09/24/81	19.29	
09/19/79	19.83		10/23/81	19.10	
10/03/79	19.76		12/30/81	19.03	
11/01/79	19.68				

**151-062-20CDA**  
**Warwick Aquifer**

L.S Elev (msl,ft)=1476.9  
SI (ft.)=78-81

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/08/79	12.85	1464.05	08/31/83	12.67	1464.23
09/19/79	13.52	1463.38	10/31/83	12.13	1464.77
10/03/79	13.50	1463.40			
11/01/79	13.32	1463.58	04/04/84	11.65	1465.25
12/18/79	13.37	1463.53	06/01/84	11.97	1464.93
			08/31/84	13.14	1463.76
04/07/80	13.20	1463.70	10/31/84	12.83	1464.07
05/06/80	12.87	1464.03			
06/04/80	13.23	1463.67	04/28/85	12.25	1464.65
07/01/80	13.72	1463.18	07/27/85	12.95	1463.95
07/30/80	14.57	1462.33			
08/28/80	14.68	1462.22	05/31/86	11.69	1465.21
10/23/80	13.84	1463.06	08/01/86	12.30	1464.60
11/21/80	13.63	1463.27	11/01/86	12.28	1464.62
12/23/80	13.75	1463.15			
			04/30/87	11.43	1465.47
04/09/81	13.17	1463.73	07/02/87	12.04	1464.86
05/05/81	12.77	1464.13	08/29/87	11.85	1465.05
06/30/81	12.05	1464.85	10/30/87	11.90	1465.00
07/07/81	12.40	1464.50			
08/27/81	12.75	1464.15	04/29/88	11.55	1465.35
09/24/81	12.75	1464.15	05/30/88	11.81	1465.09
10/23/81	12.54	1464.36	09/30/88	14.05	1462.85
11/18/81	12.50	1464.40	10/29/88	13.90	1463.00
12/30/81	12.60	1464.30			
			04/27/89	12.79	1464.11
04/15/82	12.00	1464.90	08/29/89	14.72	1462.18
05/28/82	11.84	1465.06	10/30/89	14.43	1462.47
08/02/82	12.49	1464.41			
09/29/82	13.12	1463.78	06/01/90	13.78	1463.12
12/01/82	12.49	1464.41	09/27/90	14.91	1461.99
			10/29/90	14.70	1462.20
04/05/83	12.24	1464.66	11/27/90	14.67	1462.23
06/04/83	11.98	1464.92			

**151-062-20DAD1**  
**Spiritwood Aquifer**

**LS Elev (msl, ft)=1470.5**  
**SI (ft.)=143-146**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/07/79	6.60	1463.90	12/06/84	6.12	1464.38
08/17/79	6.90	1463.60	04/28/85	5.84	1464.66
09/19/79	7.09	1463.41	05/29/85	6.00	1464.50
10/03/79	6.99	1463.51	06/29/85	5.72	1464.78
11/01/79	6.80	1463.70	07/27/85	6.77	1463.73
12/18/79	6.78	1463.72	08/29/85	6.60	1463.90
04/08/80	6.57	1463.93	09/29/85	6.50	1464.00
05/06/80	6.37	1464.13	10/31/85	6.69	1463.81
06/04/80	7.59	1462.91	04/01/86	5.53	1464.97
07/02/80	7.75	1462.75	04/28/86	4.98	1465.52
07/30/80	8.77	1461.73	05/31/86	5.00	1465.50
08/28/80	8.69	1461.81	07/01/86	5.85	1464.65
09/24/80	8.00	1462.50	08/01/86	5.50	1465.00
10/23/80	7.65	1462.85	08/30/86	5.95	1464.55
11/21/80	7.37	1463.13	09/30/86	5.75	1464.75
12/23/80	7.32	1463.18	11/01/86	5.73	1464.77
04/09/81	6.81	1463.69	04/30/87	4.49	1466.01
05/05/81	6.45	1464.05	05/31/87	4.73	1465.77
06/30/81	5.72	1464.78	07/02/87	5.51	1464.99
07/29/81	6.36	1464.14	07/31/87	4.75	1465.75
08/27/81	6.50	1464.00	08/29/87	5.11	1465.39
09/24/81	6.31	1464.19	09/30/87	5.07	1465.43
10/23/81	6.06	1464.44	10/30/87	5.09	1465.41
11/18/81	6.00	1464.50	11/28/87	5.06	1465.44
12/31/81	6.15	1464.35			
04/15/82	5.65	1464.85	03/30/88	4.90	1465.60
05/28/82	5.35	1465.15	04/29/88	4.83	1465.67
06/25/82	5.40	1465.10	05/30/88	4.85	1465.65
08/02/82	6.05	1464.45	06/28/88	6.63	1463.87
09/04/82	6.77	1463.73	08/02/88	7.58	1462.92
09/29/82	6.65	1463.85	08/29/88	7.81	1462.69
11/02/82	6.28	1464.22	09/30/88	7.59	1462.91
12/01/82	6.00	1464.50	10/29/88	7.38	1463.12
04/05/83	5.80	1464.70	04/27/89	6.50	1464.00
05/02/83	5.41	1465.09	06/01/89	6.29	1464.21
06/04/83	5.39	1465.11	06/26/89	6.95	1463.55
06/28/83	5.64	1464.86	07/29/89	8.57	1461.93
08/02/83	6.40	1464.10	08/29/89	8.57	1461.93
08/31/83	6.20	1464.30	09/29/89	8.18	1462.32
09/30/83	5.73	1464.77	10/30/89	7.90	1462.60
10/31/83	5.50	1465.00	11/28/89	7.83	1462.67
11/27/83	5.48	1465.02			
			04/04/90	7.85	1462.65
04/04/84	5.15	1465.35	04/30/90	7.66	1462.84
04/30/84	4.74	1465.76	06/01/90	7.68	1462.82
06/01/84	5.43	1465.07	06/30/90	7.28	1463.22
07/01/84	5.12	1465.38	07/28/90	7.82	1462.68
08/02/84	6.59	1463.91	08/29/90	8.39	1462.11
08/31/84	6.81	1463.69	09/27/90	8.43	1462.07
09/29/84	6.65	1463.85	10/29/90	8.23	1462.27
10/31/84	6.25	1464.25	11/27/90	8.14	1462.36

**151-062-20DAD2**  
**Warwick Aquifer**

LS Elev (msl,ft)=1470.7  
 SI (ft.)=55-58

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/07/79	6.70	1464.00	12/06/84	6.19	1464.51
08/17/79	6.94	1463.76			
09/19/79	7.30	1463.40	04/28/85	5.82	1464.88
10/03/79	7.19	1463.51	05/29/85	5.97	1464.73
11/01/79	6.97	1463.73	06/29/85	5.72	1464.98
12/18/79	7.00	1463.70	07/27/85	6.68	1464.02
			08/29/85	6.82	1463.88
04/08/80	6.61	1464.09	09/29/85	6.61	1464.09
05/06/80	6.44	1464.26	10/31/85	6.17	1464.53
06/04/80	7.28	1463.42			
07/02/80	7.64	1463.06	04/01/86	5.52	1465.18
07/30/80	8.51	1462.19	04/28/86	4.90	1465.80
08/28/80	8.70	1462.00	05/31/86	5.14	1465.56
09/24/80	8.10	1462.60	07/01/86	5.83	1464.87
10/23/80	7.73	1462.97	08/01/86	5.55	1465.15
11/21/80	7.43	1463.27	08/30/86	6.05	1464.65
12/23/80	7.43	1463.27	09/30/86	5.78	1464.92
			11/01/86	5.75	1464.95
04/09/81	6.87	1463.83			
05/05/81	6.50	1464.20	04/30/87	4.62	1466.08
06/30/81	5.70	1465.00	05/31/87	4.75	1465.95
07/29/81	6.20	1464.50	07/02/87	5.49	1465.21
08/27/81	6.51	1464.19	07/31/87	4.88	1465.82
09/24/81	6.37	1464.33	08/29/87	5.16	1465.54
10/23/81	6.12	1464.58	09/30/87	5.14	1465.56
11/18/81	6.07	1464.63	10/30/87	5.15	1465.55
12/31/81	6.24	1464.46	11/28/87	5.10	1465.60
04/15/82	5.63	1465.07	03/30/88	4.91	1465.79
05/28/82	5.46	1465.24	04/29/88	4.87	1465.83
06/25/82	5.49	1465.21	05/30/88	5.27	1465.43
08/02/82	6.10	1464.60	06/28/88	6.27	1464.43
09/04/82	6.83	1463.87	08/02/88	7.42	1463.28
09/29/82	6.70	1464.00	08/29/88	7.71	1462.99
11/02/82	6.17	1464.53	09/30/88	7.62	1463.08
12/01/82	6.09	1464.61	10/28/88	7.43	1463.27
04/05/83	5.85	1464.85	04/27/89	6.48	1464.22
05/02/83	5.48	1465.22	06/01/89	6.33	1464.37
06/04/83	5.50	1465.20	06/26/89	6.69	1464.01
06/28/83	5.74	1464.96	07/29/89	8.26	1462.44
08/02/83	6.38	1464.32	08/29/89	8.53	1462.17
08/31/83	6.28	1464.42	09/29/89	8.18	1462.52
09/30/83	5.88	1464.82	10/30/89	7.98	1462.72
10/31/83	5.59	1465.11	11/28/89	7.88	1462.82
11/27/83	5.60	1465.10			
			04/04/90	7.87	1462.83
04/04/84	5.18	1465.52	04/30/90	7.69	1463.01
04/30/84	4.77	1465.93	06/01/90	7.58	1463.12
06/01/84	5.41	1465.29	06/30/90	7.33	1463.37
07/01/84	5.11	1465.59	07/28/90	7.74	1462.96
08/02/84	6.33	1464.37	08/29/90	8.37	1462.33
08/31/84	6.84	1463.86	09/27/90	8.48	1462.22
09/29/84	6.76	1463.94	10/29/90	8.29	1462.41
10/31/84	6.26	1464.44	11/27/90	8.20	1462.50

151-062-21BAA

Spiritwood Aquifer

LS Elev (msl, ft)=1485.5

SI (ft.)=160-166

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/19/77	39.03	1446.47	09/30/83	18.78	1466.72
08/30/77	34.34	1451.16	10/31/83	20.36	1465.14
09/14/77	25.52	1459.98	11/27/83	20.23	1465.27
09/28/77	24.07	1461.43			
11/08/77	23.10	1462.40	04/04/84	20.06	1465.44
			04/30/84	19.59	1465.91
05/04/78	21.90	1463.60	06/01/84	26.34	1459.16
06/01/78	21.75	1463.75	07/01/84	20.54	1464.96
06/28/78	41.90	1443.60	08/02/84	40.32	1445.18
07/07/78	37.95	1447.55	08/31/84	28.46	1457.04
07/27/78	47.30	1438.20	09/29/84	21.93	1463.57
08/31/78	31.70	1453.80	10/31/84	21.18	1464.32
09/28/78	24.70	1460.80	12/06/84	20.87	1464.63
12/15/78	22.92	1462.58			
			04/28/85	20.56	1464.94
05/17/79	20.70	1464.80	05/29/85	25.79	1459.71
06/13/79	33.24	1452.26	06/29/85	20.59	1464.91
07/11/79	37.90	1447.60	07/27/85	35.58	1449.92
08/07/79	27.95	1457.55	08/29/85	25.35	1460.15
09/20/79	24.22	1461.28	09/29/85	21.64	1463.86
10/03/79	22.53	1462.97	10/31/85	20.97	1464.53
11/01/79	21.80	1463.70			
12/18/79	21.55	1463.95	04/01/86	20.19	1465.31
			04/28/86	19.74	1465.76
04/08/80	21.60	1463.90	05/31/86	19.60	1465.90
05/06/80	21.34	1464.16	07/01/86	27.84	1457.66
06/04/80	50.97	1434.53	08/01/86	22.33	1463.17
07/02/80	40.15	1445.35	08/30/86	22.64	1462.86
07/30/80	47.82	1437.68	09/30/86	20.75	1464.75
08/28/80	29.16	1456.34	11/01/86	20.55	1464.95
09/24/80	23.70	1461.80			
11/21/80	22.39	1463.11	04/30/87	19.06	1466.44
12/23/80	22.20	1463.30	05/31/87	20.22	1465.28
			07/02/87	29.04	1456.46
04/09/81	21.74	1463.76	07/31/87	20.47	1465.03
05/05/81	21.48	1464.02	08/29/87	22.29	1463.21
06/04/81	22.05	1463.45	09/30/87	19.99	1465.51
06/30/81	21.80	1463.70	10/30/87	19.69	1465.81
07/29/81	42.30	1443.20	11/28/87	19.64	1465.86
08/27/81	26.70	1458.80			
09/24/81	21.75	1463.75	03/30/88	19.55	1465.95
10/23/81	21.22	1464.28	04/29/88	19.42	1466.08
11/18/81	21.05	1464.45	05/30/88	21.20	1464.30
12/31/81	21.00	1464.50	06/28/88	53.34	1432.16
			08/02/88	40.49	1445.01
04/15/82	20.72	1464.78	08/29/88	35.96	1449.54
05/28/82	20.27	1465.23	09/30/88	23.50	1462.00
06/25/82	22.39	1463.11	10/29/88	22.31	1463.19
08/02/82	23.69	1461.81			
09/04/82	26.74	1458.76	04/27/89	21.29	1464.21
09/29/82	22.07	1463.43	06/01/89	21.49	1464.01
11/02/82	20.82	1464.68	06/26/89	47.42	1438.08
12/01/82	20.87	1464.63	07/29/89	46.68	1438.82
			08/29/89	27.83	1457.67
04/05/83	20.64	1464.86	09/29/89	23.37	1462.13
05/02/83	20.25	1465.25	10/30/89	22.82	1462.68
06/04/83	20.71	1464.79	11/28/89	22.58	1462.92
06/28/83	26.24	1459.26			
08/02/83	31.50	1454.00	04/04/90	22.39	1463.11
08/31/83	22.88	1462.62	04/30/90	22.22	1463.28

**151-062-21BAA**

**(Continued)**

**Spiritwood Aquifer**

**LS Elev (msl, ft)=1485.5**

**SI (ft.)=160-166**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/01/90	36.07	1449.43	09/27/90	24.13	1461.37
06/30/90	23.78	1461.72	10/29/90	23.09	1462.41
07/28/90	33.40	1452.10	11/27/90	22.82	1462.68
08/29/90	27.89	1457.61			

151-062-22BBBB2

Spiritwood Aquifer

LS Elev (msl, ft) = 1476.3

SI (ft.) = 171-177

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/19/77	32.30	1444.00	05/02/83	10.50	1465.80
08/30/77	26.17	1450.13	06/04/83	11.15	1465.15
09/14/77	16.30	1460.00	06/28/83	12.49	1463.81
09/28/77	14.65	1461.65	08/02/83	24.15	1452.15
11/08/77	12.90	1463.40	08/30/83	13.87	1462.43
			09/30/83	11.20	1465.10
05/04/78	12.22	1464.08	10/31/83	10.75	1465.55
06/01/78	12.30	1464.00	11/27/83	10.62	1465.68
06/28/78	37.58	1438.72			
07/07/78	30.60	1445.70	04/04/84	10.43	1465.87
07/27/78	44.33	1431.97	04/30/84	9.93	1466.37
08/09/78	32.56	1443.74	05/31/84	19.69	1456.61
08/31/78	23.72	1452.58	07/01/84	11.02	1465.28
09/28/78	15.40	1460.90	08/02/84	35.11	1441.19
11/22/78	13.48	1462.82	08/31/84	20.40	1455.90
12/15/78	13.35	1462.95	09/29/84	12.51	1463.79
			10/31/84	11.58	1464.72
05/17/79	11.10	1465.20	12/06/84	11.26	1465.04
06/01/79	10.92	1465.38			
06/29/79	15.50	1460.80	04/28/85	10.97	1465.33
07/11/79	32.86	1443.44	05/29/85	17.60	1458.70
08/08/79	19.42	1456.88	06/29/85	11.06	1465.24
08/17/79	25.03	1451.27	07/27/85	30.69	1445.61
09/20/79	25.13	1451.17	08/29/85	16.73	1459.57
10/03/79	13.06	1463.24	09/29/85	12.14	1464.16
11/01/79	12.24	1464.06	10/31/85	11.37	1464.93
12/18/79	11.95	1464.35			
			04/01/86	11.20	1465.10
04/08/80	11.97	1464.33	04/28/86	10.57	1465.73
05/06/80	11.68	1464.62	05/31/86	10.39	1465.91
06/04/80	47.67	1428.63	07/01/86	20.35	1455.95
07/02/80	35.15	1441.15	08/01/86	13.19	1463.11
07/30/80	45.88	1430.42	08/30/86	13.92	1462.38
08/28/80	20.47	1455.83	09/29/86	11.62	1464.68
09/24/80	14.22	1462.08	10/31/86	11.43	1464.87
10/23/80	13.25	1463.05			
11/21/80	12.77	1463.53	04/28/87	9.96	1466.34
12/23/80	12.60	1463.70	05/30/87	11.35	1464.95
			07/02/87	21.75	1454.55
04/09/81	12.09	1464.21	07/31/87	11.44	1464.86
05/05/81	11.85	1464.45	08/29/87	13.74	1462.56
06/04/81	12.59	1463.71	09/30/87	10.93	1465.37
06/30/81	12.35	1463.95	10/29/87	10.52	1465.78
07/29/81	39.54	1436.76	11/28/87	10.44	1465.86
08/27/81	17.99	1458.31			
09/24/81	12.25	1464.05	03/30/88	10.41	1465.89
10/23/81	11.65	1464.65	04/29/88	10.29	1466.01
11/18/81	11.44	1464.86	05/30/88	12.32	1463.98
12/31/81	11.40	1464.90	06/28/88	47.71	1428.59
			07/31/88	36.35	1439.95
04/15/82	11.11	1465.19	08/29/88	29.26	1447.04
05/28/82	10.63	1465.67	09/30/88	14.67	1461.63
06/24/82	10.20	1466.10	10/28/88	13.17	1463.13
08/01/82	15.79	1460.51			
09/04/82	18.30	1458.00	04/27/89	12.12	1464.18
09/29/82	12.55	1463.75	06/01/89	12.35	1463.95
11/02/82	11.40	1464.90	06/26/89	45.71	1430.59
12/01/82	11.24	1465.06	07/29/89	42.00	1434.30
			08/29/89	18.37	1457.93
04/05/83	11.02	1465.28	09/29/89	14.36	1461.94

**151-062-22BBBB2**                   **(Continued)**

**Spiritwood Aquifer**

**LS Elev (msl, ft)=1476.3**

**SI (ft.)=171-177**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/30/89	13.71	1462.59	06/30/90	14.58	1461.72
11/28/89	13.45	1462.85	07/28/90	24.51	1451.79
			08/29/90	19.18	1457.12
04/04/90	13.22	1463.08	09/27/90	15.22	1461.08
04/30/90	13.07	1463.23	10/28/90	13.97	1462.33
05/31/90	29.19	1447.11	11/27/90	13.70	1462.60

151-062-23ABB

Spiritwood Aquifer

LS Elev (msl, ft) = 1477.2

SI (ft.) = 228-231

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/01/78	26.55	1450.65	05/31/84	27.73	1449.47
06/28/78	38.53	1438.67	07/01/84	23.81	1453.39
07/07/78	35.84	1441.36	08/01/84	37.53	1439.67
07/27/78	44.35	1432.85	08/31/84	36.41	1440.79
08/09/78	51.01	1426.19	09/29/84	28.27	1448.93
08/31/78	40.95	1436.25	10/29/84	24.78	1452.42
09/28/78	32.72	1444.48	12/06/84	22.93	1454.27
12/14/78	27.79	1449.41			
			04/28/85	20.85	1456.35
05/18/79	25.00	1452.20	05/28/85	26.47	1450.73
06/13/79	31.25	1445.95	06/29/85	22.68	1454.52
07/11/79	35.19	1442.01	07/27/85	40.96	1436.24
08/07/79	42.57	1434.63	08/29/85	28.35	1448.85
09/20/79	30.29	1446.91	09/28/85	24.64	1452.56
10/03/79	29.86	1447.34	10/29/85	23.12	1454.08
11/01/79	27.63	1449.57			
12/18/79	25.35	1451.85	03/31/86	20.68	1456.52
			04/28/86	20.15	1457.05
04/08/80	23.55	1453.65	05/31/86	25.44	1451.76
05/06/80	28.19	1449.01	07/01/86	36.50	1440.70
06/05/80	36.86	1440.34	07/30/86	26.29	1450.91
07/02/80	45.22	1431.98	08/30/86	29.90	1447.30
07/30/80	48.82	1428.38	09/29/86	24.19	1453.01
08/28/80	34.03	1443.17	10/31/86	22.52	1454.68
09/24/80	29.59	1447.61			
10/23/80	27.55	1449.65	04/28/87	19.70	1457.50
11/21/80	26.23	1450.97	05/30/87	22.46	1454.74
12/23/80	25.45	1451.75	07/02/87	23.04	1454.16
			07/31/87	22.40	1454.80
04/09/81	23.89	1453.31	08/31/87	22.00	1455.20
05/05/81	23.63	1453.57	09/30/87	20.28	1456.92
06/04/81	25.35	1451.85	10/29/87	19.51	1457.69
06/30/81	24.29	1452.91	11/28/87	19.12	1458.08
07/29/81	31.33	1445.87			
08/27/81	35.19	1442.01	03/30/88	18.08	1459.12
10/23/81	25.98	1451.22	04/29/88	19.29	1457.91
11/18/81	24.75	1452.45	05/30/88	21.49	1455.71
12/31/81	23.66	1453.54	06/28/88	41.90	1435.30
			07/31/88	40.15	1437.05
04/15/82	22.33	1454.87	08/29/88	31.88	1445.32
05/28/82	21.85	1455.35	09/30/88	26.26	1450.94
06/24/82	27.27	1449.93	10/28/88	23.71	1453.49
08/01/82	33.09	1444.11			
09/04/82	34.03	1443.17	04/27/89	20.24	1456.96
09/29/82	28.03	1449.17	05/31/89	21.09	1456.11
11/02/82	24.47	1452.73	06/27/89	30.34	1446.86
11/30/82	22.10	1455.10	07/29/89	41.75	1435.45
			08/30/89	35.44	1441.76
04/05/83	21.17	1456.03	09/30/89	27.16	1450.04
05/01/83	20.96	1456.24	10/31/89	24.90	1452.30
06/04/83	25.47	1451.73	11/28/89	23.75	1453.45
06/28/83	28.00	1449.20			
08/02/83	39.92	1437.28	04/04/90	21.72	1455.48
08/30/83	30.04	1447.16	04/30/90	21.57	1455.63
09/29/83	25.46	1451.74	05/31/90	26.62	1450.58
10/30/83	23.42	1453.78	06/30/90	22.30	1454.90
11/27/83	22.46	1454.74	07/28/90	36.80	1440.40
			08/30/90	33.75	1443.45
04/04/84	20.51	1456.69	09/27/90	29.96	1447.24
04/30/84	20.10	1457.10	10/28/90	26.03	1451.17

151-062-24AAA

Spiritwood Aquifer

LS Elev (msl,ft)=1491.8

SI (ft.)=197-203

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/27/77	58.68	1433.12	06/04/83	38.25	1453.55
08/05/77	55.97	1435.83	06/28/83	42.47	1449.33
08/19/77	57.92	1433.88	08/02/83	52.07	1439.73
08/30/77	52.20	1439.60	08/30/83	43.84	1447.96
09/14/77	47.18	1444.62	09/29/83	39.64	1452.16
09/28/77	45.37	1446.43	10/30/83	37.69	1454.11
11/08/77	42.18	1449.62	11/27/83	36.70	1455.10
05/04/78	40.03	1451.77	04/04/84	34.80	1457.00
06/01/78	40.57	1451.23	04/30/84	34.44	1457.36
06/28/78	50.66	1441.14	06/30/84	38.67	1453.13
07/07/78	49.08	1442.72	07/31/84	51.59	1440.21
07/28/78	56.00	1435.80	08/30/84	51.06	1440.74
08/09/78	62.05	1429.75	09/29/84	42.67	1449.13
09/01/78	54.07	1437.73	10/29/84	39.05	1452.75
09/29/78	46.70	1445.10	12/06/84	37.78	1454.02
11/21/78	42.93	1448.87		04/26/85	35.66
				05/28/85	40.33
05/18/79	40.10	1451.70		06/29/85	37.35
06/13/79	43.43	1448.37		07/27/85	52.43
07/11/79	47.79	1444.01		08/29/85	42.68
08/07/79	53.97	1437.83		09/28/85	39.44
09/19/79	46.65	1445.15		10/29/85	37.93
10/03/79	44.23	1447.57		03/31/86	34.73
11/01/79	42.05	1449.75		04/28/86	34.50
12/18/79	39.82	1451.98		05/31/86	39.29
04/08/80	38.02	1453.78		07/01/86	48.18
05/06/80	41.64	1450.16		07/30/86	40.22
06/05/80	48.98	1442.82		08/29/86	42.40
07/02/80	56.82	1434.98		09/30/86	38.00
07/30/80	60.15	1431.65		10/31/86	36.46
08/28/80	48.18	1443.62		04/28/87	33.75
09/24/80	44.02	1447.78		05/30/87	36.18
10/23/80	41.97	1449.83		07/02/87	36.72
11/21/80	40.76	1451.04		07/31/87	36.15
12/23/80	39.95	1451.85		08/31/87	35.76
04/09/81	38.35	1453.45		09/30/87	34.14
05/05/81	38.09	1453.71		10/29/87	33.41
06/04/81	40.36	1451.44		11/29/87	33.01
06/30/81	38.67	1453.13		03/30/88	31.95
07/29/81	44.97	1446.83		04/29/88	32.77
08/27/81	47.60	1444.20		05/30/88	35.75
09/24/81	43.05	1448.75		06/28/88	51.74
10/23/81	40.28	1451.52		07/31/88	52.70
11/18/81	39.14	1452.66		08/29/88	44.57
12/31/81	38.77	1453.03		09/30/88	40.69
04/15/82	36.68	1455.12		10/28/88	37.56
05/28/82	36.24	1455.56		04/27/89	34.19
06/24/82	39.40	1452.40		05/31/89	35.22
08/01/82	43.94	1447.86		06/27/89	42.18
09/04/82	46.29	1445.51		07/29/89	53.52
09/29/82	42.05	1449.75		08/30/89	49.72
11/02/82	38.79	1453.01		09/30/89	40.82
11/30/82	37.49	1454.31		10/31/89	38.79
04/05/83	35.93	1455.87		11/29/89	37.61
05/02/83	35.22	1456.58			1454.19

**151-062-24AAA**

**(Continued)**

**Spiritwood Aquifer**

**LS Elev (msl, ft) = 1491.8**

**SI (ft.) = 197-203**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/04/90	35.67	1456.13	07/28/90	48.53	1443.27
04/30/90	35.62	1456.18	08/29/90	47.32	1444.48
05/31/90	39.53	1452.27	09/27/90	43.46	1448.34
06/30/90	36.57	1455.23	10/28/90	39.83	1451.97
			11/27/90	38.39	1453.41

151-062-24CCC

Spiritwood Aquifer

LS Elev (msl, ft) = 1481.2

SI (ft.) = 258-261

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/01/78	29.83	1451.37	05/31/84	29.40	1451.80
06/28/78	40.65	1440.55	07/01/84	27.12	1454.08
07/07/78	39.75	1441.45	07/31/84	38.07	1443.13
07/28/78	47.60	1433.60	08/31/84	41.23	1439.97
08/09/78	54.35	1426.85	09/29/84	32.24	1448.96
09/01/78	45.45	1435.75	10/29/84	28.46	1452.74
09/29/78	36.57	1444.63	12/07/84	26.94	1454.26
12/14/78	31.06	1450.14			
			04/28/85	24.28	1456.92
05/18/79	29.23	1451.97	05/29/85	28.88	1452.32
06/13/79	32.90	1448.30	06/29/85	26.27	1454.93
07/11/79	37.95	1443.25	07/27/85	42.96	1438.24
08/07/79	44.90	1436.30	08/29/85	32.78	1448.42
09/19/79	35.61	1445.59	09/28/85	28.42	1452.78
10/03/79	33.90	1447.30	10/29/85	26.62	1454.58
11/01/79	31.38	1449.82			
12/18/79	28.95	1452.25	03/31/86	24.20	1457.00
			04/28/86	23.68	1457.52
04/08/80	27.10	1454.10	05/31/86	28.98	1452.22
05/06/80	32.02	1449.18	07/01/86	38.72	1442.48
06/05/80	40.30	1440.90	07/30/86	30.34	1450.86
07/02/80	49.94	1431.26	08/31/86	34.94	1446.26
07/30/80	53.39	1427.81	09/30/86	27.89	1453.31
08/28/80	38.98	1442.22	10/31/86	26.07	1455.13
09/24/80	33.98	1447.22			
10/23/80	31.64	1449.56	04/28/87	23.15	1458.05
11/21/80	30.31	1450.89	05/30/87	26.25	1454.95
12/23/80	29.47	1451.73	07/02/87	26.83	1454.37
			07/31/87	26.13	1455.07
04/09/81	27.87	1453.33	08/31/87	25.68	1455.52
05/05/81	27.60	1453.60	09/30/87	23.81	1457.39
06/04/81	29.60	1451.60	10/29/87	23.02	1458.18
06/30/81	28.39	1452.81	11/29/87	22.57	1458.63
08/27/81	38.95	1442.25			
09/24/81	33.40	1447.80	03/30/88	21.56	1459.64
10/23/81	30.14	1451.06	04/29/88	22.14	1459.06
11/18/81	28.85	1452.35	05/30/88	24.91	1456.29
12/31/81	27.66	1453.54	06/28/88	44.50	1436.70
			07/31/88	45.53	1435.67
04/15/82	26.32	1454.88	08/29/88	35.77	1445.43
05/28/82	26.84	1454.36	09/30/88	30.04	1451.16
06/25/82	28.93	1452.27	10/28/88	27.42	1453.78
08/01/82	34.90	1446.30			
09/04/82	38.00	1443.20	04/27/89	23.71	1457.49
09/29/82	32.52	1448.68	06/01/89	24.84	1456.36
11/02/82	28.63	1452.57	06/27/89	32.08	1449.12
11/30/82	27.22	1453.98	07/29/89	47.11	1434.09
			08/30/89	40.63	1440.57
04/05/83	25.20	1456.00	09/30/89	30.94	1450.26
05/01/83	24.99	1456.21	10/30/89	28.57	1452.63
06/04/83	28.55	1452.65	11/29/89	27.26	1453.94
06/28/83	32.00	1449.20			
08/02/83	45.45	1435.75	04/04/90	25.19	1456.01
08/30/83	34.79	1446.41	04/30/90	25.04	1456.16
09/29/83	29.78	1451.42	05/31/90	29.55	1451.65
10/30/83	27.55	1453.65	06/30/90	26.29	1454.91
11/27/83	26.51	1454.69	07/28/90	39.55	1441.65
			08/29/90	38.98	1442.22
04/04/84	23.96	1457.24	09/27/90	34.10	1447.10
04/30/84	23.53	1457.67	10/28/90	29.72	1451.48

**151-062-24CCC**                   **(Continued)**                   **LS Elev (msl, ft)=1481.2**  
**Spiritwood Aquifer**   **SI (ft.)=258-261**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/27/90	28.06	1453.14			

**151-062-25ACD**   **LS Elev (msl, ft)=**  
**Spiritwood Aquifer**   **SI (ft.)=220-250**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/18/79	31.48		04/09/81	30.38	
09/19/79	39.28		04/30/81	29.98	
			09/24/81	35.27	
09/24/80	35.80		12/31/81	28.40	

151-062-27AAA1

Warwick Aquifer

LS Elev (msl, ft) = 1468.4

SI (ft.) = 14-16

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/27/77	5.02	1463.38	09/29/83	3.52	1464.88
08/05/77	5.08	1463.32	10/30/83	3.28	1465.12
08/19/77	4.92	1463.48	11/27/83	3.64	1464.76
08/30/77	4.95	1463.45	04/30/84	0.59	1467.81
09/14/77	4.65	1463.75	05/31/84	2.99	1465.41
09/28/77	4.20	1464.20	07/01/84	2.13	1466.27
11/08/77	4.27	1464.13	07/31/84	3.48	1464.92
05/04/78	3.07	1465.33	08/31/84	4.86	1463.54
06/01/78	1.34	1467.06	09/29/84	5.73	1462.67
06/28/78	3.14	1465.26	10/29/84	3.52	1464.88
07/07/78	3.15	1465.25	12/07/84	4.32	1464.08
07/28/78	3.75	1464.65	04/28/85	3.74	1464.66
08/09/78	4.17	1464.23	05/29/85	3.48	1464.92
09/01/78	3.18	1465.22	06/29/85	2.94	1465.46
09/29/78	3.72	1464.68	07/27/85	4.58	1463.82
05/17/79	1.10	1467.30	08/29/85	3.97	1464.43
06/13/79	2.77	1465.63	09/28/85	3.83	1464.57
07/11/79	2.54	1465.86	10/29/85	2.63	1465.77
08/07/79	3.46	1464.94	03/31/86	1.20	1467.20
09/19/79	4.53	1463.87	04/28/86	0.71	1467.69
10/03/79	4.66	1463.74	05/31/86	2.50	1465.90
11/01/79	4.66	1463.74	07/01/86	3.40	1465.00
12/18/79	5.23	1463.17	07/30/86	2.70	1465.70
04/08/80	4.13	1464.27	08/30/86	3.79	1464.61
05/06/80	4.42	1463.98	09/30/86	3.15	1465.25
06/05/80	2.85	1465.55	10/31/86	3.30	1465.10
07/02/80	5.03	1463.37			
07/30/80	5.59	1462.81	04/28/87	1.74	1466.66
08/28/80	4.67	1463.73	05/30/87	1.28	1467.12
09/24/80	4.07	1464.33	07/02/87	2.33	1466.07
10/23/80	3.60	1464.80	07/31/87	0.53	1467.87
11/21/80	3.50	1464.90	08/30/87	1.99	1466.41
12/23/80	4.95	1463.45	09/30/87	2.63	1465.77
			10/29/87	2.86	1465.54
04/09/81	4.45	1463.95	11/29/87	2.95	1465.45
05/05/81	3.55	1464.85			
06/04/81	2.50	1465.90	03/30/88	3.81	1464.59
06/30/81	1.83	1466.57	04/29/88	3.63	1464.77
07/29/81	3.88	1464.52	05/30/88	3.44	1464.96
08/27/81	4.73	1463.67	06/28/88	4.61	1463.79
09/25/81	4.41	1463.99	08/01/88	5.52	1462.88
10/23/81	4.25	1464.15	08/29/88	5.40	1463.00
11/18/81	4.35	1464.05	09/30/88	5.38	1463.02
12/31/81	5.05	1463.35	10/28/88	4.56	1463.84
05/28/82	3.39	1465.01	04/27/89	2.28	1466.12
06/25/82	2.97	1465.43	05/31/89	4.09	1464.31
08/01/82	3.33	1465.07	06/27/89	4.72	1463.68
09/04/82	5.04	1463.36	07/29/89	5.60	1462.80
09/29/82	5.08	1463.32	08/30/89	5.42	1462.98
11/02/82	3.08	1465.32	09/30/89	5.36	1463.04
11/30/82	3.72	1464.68	10/30/89	5.50	1462.90
			11/29/89	5.56	1462.84
06/04/83	4.04	1464.36			
06/28/83	4.67	1463.73	04/04/90	5.74	1462.66
08/02/83	4.67	1463.73	04/30/90	5.44	1462.96
08/30/83	3.67	1464.73	05/31/90	5.02	1463.38

**151-062-27AAA1**

**(Continued)**

**Warwick Aquifer**

**LS Elev (msl,ft)=1468.4**

**SI (ft.)=14-16**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/30/90	2.88	1465.52	09/27/90	3.18	1465.22
07/28/90	3.43	1464.97	10/28/90	3.33	1465.07
08/29/90	3.15	1465.25	11/27/90	3.53	1464.87

**151-062-27AAA2**

**Spiritwood Aquifer**

LS Elev (msl, ft)=1468.6

SI (ft.)=198-204

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/18/81	15.87	1452.73	07/01/86	25.31	1443.29
12/31/81	14.75	1453.85	07/30/86	17.85	1450.75
			08/30/86	20.92	1447.68
04/15/82	13.40	1455.20	09/30/86	15.48	1453.12
05/28/82	12.93	1455.67	10/31/86	13.65	1454.95
06/25/82	16.02	1452.58			
08/01/82	21.08	1447.52	04/28/87	10.73	1457.87
09/04/82	24.88	1443.72	05/30/87	13.83	1454.77
09/29/82	19.54	1449.06	07/02/87	14.39	1454.21
11/02/82	15.66	1452.94	07/31/87	13.74	1454.86
11/30/82	14.29	1454.31	08/30/87	13.33	1455.27
			09/30/87	11.37	1457.23
04/05/83	12.31	1456.29	10/29/87	10.59	1458.01
05/01/83	12.09	1456.51	11/29/87	10.18	1458.42
06/04/83	15.70	1452.90			
06/28/83	18.23	1450.37	03/30/88	9.21	1459.39
08/02/83	33.43	1435.17	04/29/88	9.61	1458.99
08/30/83	21.42	1447.18	05/30/88	11.46	1457.14
09/29/83	16.87	1451.73	06/28/88	32.14	1436.46
10/30/83	14.66	1453.94	08/01/88	32.20	1436.40
11/27/83	13.62	1454.98	08/29/88	23.29	1445.31
			09/30/88	17.37	1451.23
04/04/84	11.50	1457.10	10/28/88	14.89	1453.71
04/30/84	11.08	1457.52			
05/31/84	16.97	1451.63	04/27/89	11.25	1457.35
07/01/84	14.63	1453.97	05/31/89	12.41	1456.19
07/31/84	30.49	1438.11	06/27/89	18.60	1450.00
08/31/84	28.68	1439.92	07/29/89	34.59	1434.01
09/29/84	19.69	1448.91	08/30/89	27.21	1441.39
10/29/84	15.97	1452.63	09/30/89	18.55	1450.05
12/07/84	13.92	1454.68	10/30/89	16.07	1452.53
			11/29/89	14.77	1453.83
04/28/85	11.83	1456.77			
05/29/85	16.62	1451.98	04/04/90	12.74	1455.86
06/29/85	13.80	1454.80	04/30/90	12.58	1456.02
07/27/85	29.55	1439.05	05/31/90	17.23	1451.37
08/29/85	19.88	1448.72	06/30/90	13.86	1454.74
09/28/85	15.93	1452.67	07/28/90	27.50	1441.10
10/29/85	14.15	1454.45	08/29/90	26.48	1442.12
			09/27/90	21.60	1447.00
03/31/86	11.72	1456.88	10/28/90	17.22	1451.38
04/28/86	11.20	1457.40	11/27/90	15.57	1453.03
05/31/86	15.55	1453.05			

151-062-27DDDA

Spiritwood Aquifer

LS Elev (msl, ft) = 1464.08

SI (ft.) = 188-193

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/04/84	8.51	1455.57	09/30/87	8.55	1455.53
04/30/84	8.05	1456.03	10/29/87	7.73	1456.35
05/31/84	12.66	1451.42	11/29/87	7.19	1456.89
07/01/84	11.36	1452.72			
07/31/84	26.60	1437.48	03/31/88	6.43	1457.65
08/31/84	26.37	1437.71	04/29/88	6.61	1457.47
09/29/84	17.25	1446.83	05/30/88	8.42	1455.66
10/29/84	13.29	1450.79	06/28/88	27.40	1436.68
12/07/84	10.97	1453.11	08/01/88	29.11	1434.97
			08/29/88	20.89	1443.19
04/28/85	8.95	1455.13	09/30/88	14.74	1449.34
05/29/85	13.64	1450.44	10/28/88	12.21	1451.87
06/29/85	11.03	1453.05			
07/27/85	27.38	1436.70	04/27/89	8.44	1455.64
08/29/85	17.37	1446.71	05/31/89	9.64	1454.44
09/28/85	13.21	1450.87	06/26/89	14.35	1449.73
10/29/85	11.32	1452.76	07/29/89	32.33	1431.75
			08/30/89	24.73	1439.35
03/31/86	8.85	1455.23	09/30/89	16.02	1448.06
04/28/86	8.34	1455.74	10/30/89	13.38	1450.70
05/31/86	11.69	1452.39	11/29/89	11.97	1452.11
07/01/86	21.50	1442.58			
07/30/86	15.18	1448.90	04/04/90	9.90	1454.18
08/30/86	17.86	1446.22	04/30/90	9.73	1454.35
09/30/86	12.69	1451.39	05/31/90	13.79	1450.29
10/31/86	10.81	1453.27	06/30/90	11.06	1453.02
			07/28/90	23.21	1440.87
04/28/87	7.80	1456.28	08/29/90	24.29	1439.79
05/30/87	11.05	1453.03	09/27/90	19.00	1445.08
07/02/87	11.70	1452.38	10/28/90	14.50	1449.58
07/31/87	10.97	1453.11	11/27/90	12.78	1451.30
08/30/87	10.54	1453.54			

151-062-34DDD

Spiritwood Aquifer

LS Elev (msl, ft)=1466.1

SI (ft.)=167-170

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/27/81	24.66	1441.44	10/31/86	12.26	1453.84
09/25/81	19.38	1446.72	04/28/87	9.17	1456.93
10/23/81	15.92	1450.18	05/30/87	12.62	1453.48
04/05/83	10.84	1455.26	07/02/87	13.26	1452.84
05/01/83	10.64	1455.46	07/31/87	12.59	1453.51
06/04/83	12.91	1453.19	08/30/87	12.10	1454.00
06/28/83	15.44	1450.66	09/30/87	10.11	1455.99
08/02/83	26.74	1439.36	10/29/87	9.26	1456.84
08/30/83	21.61	1444.49	11/29/87	8.79	1457.31
09/29/83	15.90	1450.20	03/31/88	7.94	1458.16
10/30/83	13.42	1452.68	04/29/88	8.02	1458.08
11/27/83	12.27	1453.83	05/30/88	9.35	1456.75
04/04/84	11.06	1455.04	06/28/88	25.09	1441.01
04/30/84	9.60	1456.50	08/01/88	29.12	1436.98
05/31/84	12.04	1454.06	08/29/88	22.73	1443.37
07/01/84	12.58	1453.52	09/30/88	16.59	1449.51
07/31/84	25.06	1441.04	10/28/88	13.96	1452.14
08/31/84	27.73	1438.37			
09/29/84	19.28	1446.82	04/27/89	9.96	1456.14
10/29/84	14.95	1451.15	05/31/89	11.12	1454.98
12/07/84	12.72	1453.38	06/26/89	14.72	1451.38
			07/29/89	32.23	1433.87
04/28/85	10.44	1455.66	08/30/89	25.90	1440.20
05/29/85	14.30	1451.80	09/30/89	17.82	1448.28
06/29/85	12.62	1453.48	10/30/89	15.02	1451.08
07/27/85	24.72	1441.38	11/29/89	13.55	1452.55
08/29/85	19.30	1446.80			
09/28/85	14.85	1451.25	04/04/90	10.79	1455.31
10/29/85	12.80	1453.30	04/30/90	11.25	1454.85
			05/31/90	13.57	1452.53
03/31/86	10.19	1455.91	06/30/90	12.45	1453.65
04/28/86	9.68	1456.42	07/28/90	21.31	1444.79
05/31/86	11.17	1454.93	08/29/90	26.09	1440.01
07/01/86	20.55	1445.55	09/27/90	20.90	1445.20
07/30/86	16.70	1449.40	10/28/90	16.14	1449.96
08/30/86	19.12	1446.98	11/27/90	14.28	1451.82
09/30/86	14.24	1451.86			

151-062-36AAA

Spiritwood Aquifer

LS Elev (msl,ft)=1476.9

SI (ft.)=198-203

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/03/84	21.34	1455.56	09/30/87	21.40	1455.50
04/30/84	20.88	1456.02	10/29/87	20.53	1456.37
05/31/84	24.07	1452.83	11/29/87	20.02	1456.88
06/30/84	24.19	1452.71			
07/31/84	38.53	1438.37	03/30/88	19.06	1457.84
08/31/84	39.72	1437.18	04/29/88	19.35	1457.55
09/29/84	30.32	1446.58	05/30/88	22.50	1454.40
10/29/84	26.28	1450.62	06/28/88	39.60	1437.30
12/07/84	24.02	1452.88	08/01/88	42.30	1434.60
			08/29/88	34.47	1442.43
04/28/85	21.82	1455.08	09/30/88	27.69	1449.21
05/29/85	25.97	1450.93	10/28/88	25.10	1451.80
06/29/85	23.93	1452.97			
07/27/85	38.93	1437.97	04/27/89	21.22	1455.68
08/29/85	30.50	1446.40	06/01/89	22.47	1454.43
09/28/85	26.17	1450.73	06/27/89	28.55	1448.35
10/29/85	24.25	1452.65	07/29/89	45.50	1431.40
			08/30/89	39.28	1437.62
03/31/86	21.69	1455.21	09/30/89	28.88	1448.02
04/29/86	21.16	1455.74	10/31/89	26.22	1450.68
05/31/86	25.29	1451.61	11/29/89	24.79	1452.11
07/01/86	36.50	1440.40			
07/30/86	28.21	1448.69	04/04/90	22.67	1454.23
08/31/86	30.87	1446.03	04/30/90	22.51	1454.39
09/30/86	25.59	1451.31	05/31/90	24.96	1451.94
10/31/86	23.72	1453.18	06/30/90	23.98	1452.92
			07/28/90	35.40	1441.50
04/28/87	20.66	1456.24	08/29/90	37.60	1439.30
05/30/87	24.05	1452.85	09/27/90	32.09	1444.81
07/02/87	24.62	1452.28	10/28/90	27.37	1449.53
07/31/87	23.89	1453.01	11/27/90	25.58	1451.32
08/30/87	23.42	1453.48			

151-062-36CCC

Spiritwood Aquifer

LS Elev (msl, ft)=1462.3

SL (ft.)=197-203

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/05/83	6.35	1455.95	04/28/87	5.28	1457.02
05/01/83	6.07	1456.23	05/30/87	8.77	1453.53
06/04/83	8.59	1453.71	07/02/87	9.37	1452.93
06/28/83	11.47	1450.83	07/31/87	8.57	1453.73
08/02/83	23.42	1438.88	08/30/87	8.14	1454.16
08/30/83	17.16	1445.14	09/30/87	6.04	1456.26
09/29/83	11.39	1450.91	10/29/87	5.19	1457.11
10/30/83	8.91	1453.39	11/29/87	4.69	1457.61
11/27/83	7.75	1454.55			
			03/31/88	3.77	1458.53
04/04/84	5.72	1456.58	04/29/88	3.94	1458.36
04/30/84	5.29	1457.01	05/30/88	5.80	1456.50
05/31/84	7.89	1454.41	06/28/88	21.84	1440.46
07/01/84	8.32	1453.98	08/01/88	25.95	1436.35
07/31/84	21.52	1440.78	08/29/88	18.88	1443.42
08/31/84	23.99	1438.31	09/30/88	12.55	1449.75
09/29/84	15.20	1447.10	10/28/88	9.83	1452.47
10/29/84	10.86	1451.44			
12/07/84	7.35	1454.95	04/27/89	5.88	1456.42
			05/31/89	7.11	1455.19
04/28/85	6.09	1456.21	06/27/89	11.46	1450.84
05/29/85	10.32	1451.98	07/29/89	28.89	1433.41
06/29/85	8.51	1453.79	08/30/89	22.60	1439.70
07/27/85	21.75	1440.55	09/30/89	13.71	1448.59
08/29/85	15.32	1446.98	10/30/89	10.96	1451.34
09/28/85	10.79	1451.51	11/29/89	9.44	1452.86
10/29/85	8.78	1453.52			
			04/04/90	7.26	1455.04
03/31/86	6.24	1456.06	04/30/90	7.13	1455.17
04/29/86	5.75	1456.55	05/31/90	9.24	1453.06
05/31/86	7.00	1455.30	06/30/90	8.49	1453.81
07/01/86	17.83	1444.47	07/28/90	17.89	1444.41
07/30/86	12.85	1449.45	08/29/90	22.53	1439.77
08/31/86	15.29	1447.01	09/27/90	16.89	1445.41
09/30/86	10.32	1451.98	10/28/90	12.08	1450.22
10/31/86	8.34	1453.96	11/27/90	10.21	1452.09

151-063-20DCC

Warwick Aquifer

LS Elev (msl, ft)=1481.9

SI (ft.)=37-40

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/05/83	25.10	1456.80	04/30/87	24.98	1456.92
05/02/83	24.97	1456.93	05/31/87	25.38	1456.52
06/04/83	25.65	1456.25	07/02/87	25.82	1456.08
06/28/83	25.74	1456.16	07/31/87	25.34	1456.56
08/02/83	25.99	1455.91	08/29/87	24.96	1456.94
08/31/83	26.30	1455.60	09/30/87	24.91	1456.99
09/30/83	26.19	1455.71	10/30/87	24.88	1457.02
10/31/83	25.80	1456.10	11/28/87	24.64	1457.26
11/27/83	25.68	1456.22			
			03/31/88	24.45	1457.45
04/05/84	25.56	1456.34	04/29/88	24.62	1457.28
04/30/84	25.45	1456.45	05/30/88	25.19	1456.71
06/01/84	25.95	1455.95	06/28/88	25.79	1456.11
07/01/84	25.67	1456.23	08/02/88	26.37	1455.53
08/02/84	26.21	1455.69	08/29/88	26.27	1455.63
08/31/84	26.89	1455.01	09/30/88	26.64	1455.26
09/29/84	26.70	1455.20	10/29/88	26.32	1455.58
10/31/84	26.35	1455.55			
12/06/84	26.12	1455.78	04/27/89	25.68	1456.22
			06/01/89	25.92	1455.98
04/28/85	26.20	1455.70	06/26/89	26.24	1455.66
05/30/85	26.34	1455.56	07/30/89	25.19	1456.71
06/29/85	26.45	1455.45	08/30/89	27.25	1454.65
07/27/85	27.18	1454.72	09/30/89	27.00	1454.90
08/29/85	26.97	1454.93	10/30/89	27.05	1454.85
09/29/85	26.71	1455.19	11/28/89	26.91	1454.99
10/31/85	26.99	1454.91			
			04/04/90	27.47	1454.43
04/01/86	26.42	1455.48	04/30/90	27.44	1454.46
04/28/86	26.51	1455.39	06/01/90	27.43	1454.47
05/31/86	26.38	1455.52	06/30/90	27.59	1454.31
07/01/86	26.56	1455.34	07/28/90	28.19	1453.71
08/01/86	26.47	1455.43	08/29/90	28.56	1453.34
08/30/86	26.65	1455.25	09/27/90	28.37	1453.53
09/30/86	26.29	1455.61	10/29/90	28.23	1453.67
11/01/86	26.25	1455.65	11/27/90	27.85	1454.05

151-063-20DDC

Warwick Aquifer

LS Elev (msl, ft)=1482.1

SI (ft.)=33-36

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/05/83	25.93	1456.17	04/30/87	25.88	1456.22
05/02/83	25.85	1456.25	05/31/87	26.92	1455.18
06/04/83	25.75	1456.35	07/02/87	26.01	1456.09
06/28/83	25.41	1456.69	07/31/87	26.15	1455.95
08/02/83	26.09	1456.01	08/29/87	25.93	1456.17
08/31/83	26.55	1455.55	09/30/87	24.94	1457.16
09/30/83	26.70	1455.40	10/30/87	25.45	1456.65
10/31/83	26.64	1455.46	11/28/87	25.23	1456.87
11/27/83	26.60	1455.50			
			03/31/88	24.97	1457.13
04/05/84	26.32	1455.78	04/29/88	25.01	1457.09
04/30/84	25.91	1456.19	05/30/88	25.25	1456.85
06/01/84	26.19	1455.91	06/28/88	25.38	1456.72
07/01/84	26.33	1455.77	08/02/88	25.75	1456.35
08/02/84	26.79	1455.31	08/29/88	26.05	1456.05
08/31/84	27.05	1455.05	09/30/88	26.25	1455.85
09/29/84	27.32	1454.78	10/29/88	26.44	1455.66
10/31/84	27.29	1454.81			
12/06/84	27.00	1455.10	04/27/89	26.38	1455.72
			06/01/89	26.44	1455.66
04/28/85	26.48	1455.62	06/26/89	26.74	1455.36
05/30/85	26.72	1455.38	07/30/89	26.97	1455.13
06/29/85	26.76	1455.34	08/30/89	27.34	1454.76
07/27/85	26.62	1455.48	09/30/89	27.52	1454.58
08/29/85	26.60	1455.50	10/30/89	27.69	1454.41
09/29/85	26.67	1455.43	11/28/89	27.71	1454.39
10/31/85	26.70	1455.40			
			04/04/90	27.41	1454.69
04/01/86	26.80	1455.30	04/30/90	27.34	1454.76
04/28/86	26.31	1455.79	06/01/90	27.45	1454.65
05/31/86	26.33	1455.77	06/30/90	27.24	1454.86
07/01/86	26.18	1455.92	07/28/90	27.42	1454.68
08/01/86	26.37	1455.73	08/29/90	27.57	1454.53
08/30/86	26.00	1456.10	09/27/90	27.79	1454.31
09/30/86	26.41	1455.69	10/29/90	27.90	1454.20
11/01/86	26.81	1455.29	11/27/90	27.98	1454.12

151-063-22CBB

Warwick Aquifer

LS Elev (msl, ft)=1472.6

SI (ft.)=50-53

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/05/83	10.93	1461.67	04/30/87	9.81	1462.79
05/02/83	10.76	1461.84	05/31/87	9.74	1462.86
06/04/83	10.73	1461.87	07/02/87	10.09	1462.51
06/28/83	10.84	1461.76	07/31/87	9.41	1463.19
08/02/83	11.09	1461.51	08/29/87	9.34	1463.26
08/31/83	10.94	1461.66	09/30/87	9.55	1463.05
09/30/83	10.87	1461.73	10/30/87	9.74	1462.86
10/31/83	10.87	1461.73	11/28/87	9.85	1462.75
11/27/83	10.95	1461.65			
			03/31/88	10.00	1462.60
04/05/84	10.93	1461.67	04/29/88	9.95	1462.65
04/30/84	10.73	1461.87	05/30/88	10.02	1462.58
06/01/84	10.73	1461.87	06/28/88	10.28	1462.32
07/01/84	10.72	1461.88	08/02/88	10.48	1462.12
08/02/84	10.92	1461.68	08/29/88	10.68	1461.92
08/31/84	11.27	1461.33	09/30/88	10.89	1461.71
09/29/84	11.36	1461.24	10/29/88	11.06	1461.54
10/31/84	11.48	1461.12			
12/06/84	11.57	1461.03	04/27/89	11.08	1461.52
			06/01/89	11.10	1461.50
04/28/85	11.65	1460.95	06/26/89	11.26	1461.34
05/30/85	11.59	1461.01	07/30/89	11.52	1461.08
06/29/85	11.58	1461.02	08/30/89	11.71	1460.89
07/27/85	11.79	1460.81	09/30/89	11.78	1460.82
08/29/85	11.85	1460.75	10/30/89	11.92	1460.68
09/29/85	11.92	1460.68	11/28/89	11.99	1460.61
10/31/85	11.63	1460.97			
			04/04/90	12.31	1460.29
04/01/86	11.08	1461.52	04/30/90	12.32	1460.28
04/28/86	10.75	1461.85	06/01/90	12.23	1460.37
05/31/86	10.49	1462.11	06/30/90	12.25	1460.35
07/01/86	10.51	1462.09	07/28/90	12.38	1460.22
08/01/86	10.57	1462.03	08/29/90	12.50	1460.10
08/30/86	10.73	1461.87	09/27/90	12.64	1459.96
09/30/86	10.81	1461.79	10/29/90	12.76	1459.84
11/01/86	10.90	1461.70	11/27/90	12.82	1459.78

**151-063-25AAB****Spiritwood Aquifer**

LS Elev (msl,ft)=1469.3

SI (ft.)=92-95

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/05/83	6.07	1463.23	04/30/87	4.55	1464.75
05/02/83	5.40	1463.90	05/31/87	4.45	1464.85
06/04/83	5.34	1463.96	07/02/87	4.99	1464.31
06/28/83	5.48	1463.82	07/31/87	4.45	1464.85
08/02/83	5.98	1463.32	08/29/87	4.88	1464.42
08/31/83	5.95	1463.35	09/30/87	5.02	1464.28
09/30/83	5.58	1463.72	10/30/87	5.20	1464.10
10/31/83	5.52	1463.78	11/28/87	5.28	1464.02
11/27/83	5.63	1463.67			
			03/30/88	5.59	1463.71
04/04/84	5.86	1463.44	04/29/88	5.19	1464.11
04/30/84	5.17	1464.13	05/30/88	5.74	1463.56
06/01/84	5.26	1464.04	06/28/88	6.97	1462.33
07/01/84	5.05	1464.25	08/02/88	7.91	1461.39
08/02/84	5.88	1463.42	08/29/88	7.80	1461.50
08/31/84	6.44	1462.86	09/30/88	7.81	1461.49
09/29/84	6.79	1462.51	10/29/88	7.85	1461.45
10/31/84	6.54	1462.76			
12/07/84	6.54	1462.76	04/27/89	7.06	1462.24
			06/01/89	6.80	1462.50
04/28/85	6.44	1462.86	06/26/89	7.67	1461.63
05/29/85	6.16	1463.14	07/29/89	8.58	1460.72
06/29/85	5.79	1463.51	08/29/89	8.70	1460.60
07/27/85	6.29	1463.01	09/29/89	8.41	1460.89
08/29/85	6.45	1462.85	10/30/89	8.30	1461.00
09/29/85	6.39	1462.91	11/28/89	8.25	1461.05
10/31/85	5.84	1463.46			
			04/04/90	8.55	1460.75
04/01/86	5.69	1463.61	04/30/90	8.38	1460.92
04/28/86	4.94	1464.36	06/01/90	8.08	1461.22
05/31/86	4.84	1464.46	06/30/90	7.59	1461.71
07/01/86	5.46	1463.84	07/28/90	8.56	1460.74
08/01/86	5.20	1464.10	08/29/90	9.31	1459.99
08/30/86	5.62	1463.68	09/27/90	8.76	1460.54
09/30/86	5.66	1463.64	10/29/90	8.64	1460.66
11/01/86	5.74	1463.56	11/27/90	8.57	1460.73

**151-063-25BCB**

**Warwick Aquifer**

LS Elev (msl, ft) = 1470.4

SI (ft.) = 30-50

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/02/83	6.70	1463.70	04/30/87	5.53	1464.87
06/04/83	6.65	1463.75	05/31/87	5.18	1465.22
06/28/83	6.84	1463.56	07/02/87	6.00	1464.40
08/02/83	10.64	1459.76	07/31/87	4.80	1465.60
08/31/83	7.52	1462.88	08/29/87	5.48	1464.92
09/30/83	7.08	1463.32	09/30/87	5.95	1464.45
10/31/83	6.96	1463.44	10/30/87	6.29	1464.11
11/27/83	7.04	1463.36	11/28/87	6.42	1463.98
04/04/84	7.05	1463.35	04/29/88	6.40	1464.00
04/30/84	6.40	1464.00	05/30/88	6.55	1463.85
06/01/84	6.51	1463.89	06/28/88	10.30	1460.10
07/01/84	6.78	1463.62	08/02/88	9.20	1461.20
08/02/84	7.98	1462.42	08/29/88	8.79	1461.61
08/31/84	8.10	1462.30	09/30/88	8.80	1461.60
09/29/84	8.06	1462.34	10/29/88	8.78	1461.62
10/31/84	7.93	1462.47	04/27/89	8.44	1461.96
12/07/84	7.91	1462.49	06/01/89	8.25	1462.15
04/28/85	7.93	1462.47	06/26/89	8.64	1461.76
05/29/85	7.70	1462.70	07/29/89	9.36	1461.04
06/29/85	7.19	1463.21	08/29/89	9.81	1460.59
07/27/85	10.49	1459.91	09/29/89	9.50	1460.90
08/29/85	7.98	1462.42	10/30/89	9.45	1460.95
09/29/85	7.95	1462.45	11/28/89	9.43	1460.97
10/31/85	7.21	1463.19	04/04/90	9.77	1460.63
04/01/86	6.99	1463.41	04/30/90	9.56	1460.84
04/28/86	6.13	1464.27	06/01/90	9.63	1460.77
05/31/86	5.89	1464.51	06/30/90	9.45	1460.95
07/01/86	6.50	1463.90	07/28/90	10.20	1460.20
08/01/86	6.14	1464.26	08/29/90	10.22	1460.18
08/30/86	6.78	1463.62	09/27/90	9.96	1460.44
09/30/86	6.85	1463.55	10/29/90	9.85	1460.55
11/01/86	6.98	1463.42	11/27/90	9.81	1460.59

151-063-33DAD

Warwick Aquifer

LS Elev (msl,ft)=1477.1

SI (ft.)=36-61

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/05/83	12.09	1465.01	04/30/87	10.81	1466.29
05/02/83	11.50	1465.60	05/31/87	10.95	1466.15
06/04/83	11.60	1465.50	07/28/87	12.87	1464.23
06/28/83	12.55	1464.55	07/31/87	10.77	1466.33
08/02/83	13.77	1463.33	08/29/87	10.78	1466.32
08/31/83	13.02	1464.08	09/30/87	11.03	1466.07
09/30/83	12.39	1464.71	10/30/87	11.26	1465.84
10/31/83	12.31	1464.79	11/28/87	11.30	1465.80
11/27/83	12.40	1464.70			
			03/31/88	11.11	1465.99
04/05/84	12.47	1464.63	04/29/88	10.89	1466.21
04/30/84	11.76	1465.34	05/30/88	11.06	1466.04
06/01/84	11.70	1465.40	06/28/88	27.06	1450.04
07/01/84	16.39	1460.71	08/02/88	14.14	1462.96
08/02/84	30.40	1446.70	08/29/88	12.84	1464.26
08/31/84	19.24	1457.86	09/30/88	12.86	1464.24
09/29/84	15.99	1461.11	10/29/88	12.97	1464.13
10/31/84	14.73	1462.37			
12/06/84	14.19	1462.91	04/27/89	12.17	1464.93
			06/01/89	12.77	1464.33
04/28/85	13.45	1463.65	06/26/89	25.75	1451.35
05/30/85	13.45	1463.65	07/30/89	15.62	1461.48
06/29/85	13.03	1464.07	08/30/89	14.29	1462.81
07/27/85	14.47	1462.63	09/30/89	13.71	1463.39
08/29/85	13.85	1463.25	10/30/89	13.70	1463.40
09/29/85	13.70	1463.40	11/28/89	13.72	1463.38
10/31/85	13.05	1464.05			
			04/04/90	13.90	1463.20
04/01/86	12.23	1464.87	04/30/90	13.64	1463.46
04/28/86	11.52	1465.58	06/01/90	13.83	1463.27
05/31/86	11.23	1465.87	06/30/90	23.94	1453.16
07/01/86	15.17	1461.93	07/28/90	29.02	1448.08
08/01/86	13.15	1463.95	08/29/90	17.79	1459.31
08/30/86	13.53	1463.57	09/27/90	15.90	1461.20
09/30/86	12.79	1464.31	10/29/90	15.12	1461.98
11/01/86	12.62	1464.48	11/27/90	14.90	1462.20

**151-064-02DAD**

Unnamed

LS Elev (msl, ft)=1493.6

SI (ft.)=28-38

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	28.57	1465.03	03/30/88	28.17	1465.43
10/14/86	28.61	1464.99	05/06/88	28.11	1465.49
10/22/86	28.51	1465.09	06/04/88	28.22	1465.38
10/23/86	28.71	1464.89	07/06/88	28.39	1465.21
11/06/86	28.60	1465.00	08/02/88	28.58	1465.02
11/07/86	28.57	1465.03	09/08/88	28.82	1464.78
			10/12/88	29.03	1464.57
01/07/87	28.65	1464.95	11/09/88	29.12	1464.48
03/31/87	28.29	1465.31	12/15/88	29.34	1464.26
05/11/87	28.13	1465.47			
06/16/87	27.95	1465.65	06/15/89	29.20	1464.40
07/14/87	28.16	1465.44	08/08/89	29.54	1464.06
08/10/87	27.74	1465.86	10/11/89	29.74	1463.86
09/08/87	27.66	1465.94	12/20/89	29.98	1463.62
10/15/87	27.71	1465.89			
11/10/87	27.78	1465.82	04/16/90	30.14	1463.46
12/08/87	27.79	1465.81	06/13/90	30.10	1463.50
			09/06/90	30.37	1463.23
01/18/88	28.04	1465.56	10/31/90	30.48	1463.12

**151-064-04CCC**  
**Tokio Aquifer**

LS Elev (msl,ft)=1556.6  
SI (ft.)=97-103

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/19/69	31.04	1525.56	01/18/88	28.26	1528.34
01/21/70	31.07	1525.53	03/30/88	28.20	1528.40
04/15/70	31.08	1525.52	05/06/88	28.13	1528.47
05/13/70	31.05	1525.55	06/01/88	28.09	1528.51
07/07/70	30.87	1525.73	07/08/88	28.15	1528.45
			08/02/88	28.09	1528.51
			09/08/88	28.25	1528.35
07/31/86	29.24	1527.36	10/12/88	28.42	1528.18
			11/09/88	28.47	1528.13
01/07/87	29.21	1527.39	12/14/88	28.41	1528.19
03/31/87	29.01	1527.59			
05/11/87	28.71	1527.89	06/15/89	28.71	1527.89
06/16/87	28.50	1528.10	08/08/89	28.78	1527.82
07/14/87	28.43	1528.17	10/11/89	28.95	1527.65
08/10/87	28.28	1528.32	12/20/89	29.14	1527.46
09/08/87	28.24	1528.36			
10/14/87	28.25	1528.35	04/16/90	29.39	1527.21
11/09/87	28.27	1528.33	06/13/90	29.43	1527.17
12/08/87	28.16	1528.44	09/06/90	29.56	1527.04
			10/31/90	29.69	1526.91

**151-064-04CCC3**  
**Tokio Aquifer**

LS Elev (msl,ft)=1556.1  
SI (ft.)=34-39

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/05/86	28.72	1527.38	06/01/88	27.62	1528.48
11/20/86	28.76	1527.34	07/08/88	27.66	1528.44
			08/02/88	27.61	1528.49
01/07/87	28.73	1527.37	09/08/88	27.77	1528.33
03/31/87	28.54	1527.56	10/12/88	27.94	1528.16
05/11/87	28.23	1527.87	11/09/88	27.99	1528.11
06/16/87	28.00	1528.10	12/14/88	27.94	1528.16
07/14/87	27.96	1528.14			
08/10/87	27.80	1528.30	06/15/89	28.23	1527.87
09/08/87	27.79	1528.31	08/08/89	28.30	1527.80
10/14/87	27.78	1528.32	10/11/89	28.47	1527.63
11/09/87	27.78	1528.32	12/20/89	28.68	1527.42
12/08/87	27.68	1528.42			
01/18/88	27.78	1528.32	04/16/90	28.91	1527.19
03/30/88	27.72	1528.38	06/13/90	28.94	1527.16
05/06/88	27.66	1528.44	09/06/90	29.07	1527.03
			10/31/90	29.20	1526.90

**151-064-06CCC2**

**Tokio Aquifer**

LS Elev (msl, ft)=1583.5

SI (ft.)=73-81

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/05/86	29.65	1553.85	07/08/88	28.14	1555.36
11/19/86	29.62	1553.88	08/02/88	28.17	1555.33
			09/08/88	28.27	1555.23
05/11/87	28.08	1555.42	10/12/88	28.51	1554.99
06/16/87	28.19	1555.31	11/09/88	28.57	1554.93
07/14/87	28.28	1555.22	12/14/88	28.60	1554.90
08/10/87	27.49	1556.01			
09/08/87	27.65	1555.85	06/15/89	28.76	1554.74
10/14/87	27.77	1555.73	08/08/89	28.98	1554.52
11/09/87	27.86	1555.64	10/11/89	29.24	1554.26
12/07/87	27.81	1555.69	12/20/89	29.54	1553.96
01/18/88	28.78	1554.72	04/16/90	29.99	1553.51
03/30/88	27.98	1555.52	06/13/90	30.14	1553.36
05/06/88	27.91	1555.59	09/06/90	30.39	1553.11
06/01/88	27.96	1555.54	10/30/90	30.63	1552.87

**151-064-10AAA**

**Warwick Aquifer**

LS Elev (msl, ft)=1485.7

SI (ft.)=63-66

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/15/67	13.58	1472.12	07/18/86	11.21	1474.49
12/14/67	14.02	1471.68	07/31/86	11.27	1474.43
01/17/68	13.83	1471.87	03/31/87	10.76	1474.94
02/22/68	14.05	1471.65	05/11/87	10.89	1474.81
03/13/68	13.98	1471.72	06/16/87	10.50	1475.20
04/11/68	13.70	1472.00	07/14/87	10.75	1474.95
05/13/68	13.53	1472.17	08/10/87	10.08	1475.62
06/19/68	13.67	1472.03	09/08/87	10.02	1475.68
07/15/68	13.70	1472.00	10/15/87	10.14	1475.56
08/21/68	13.80	1471.90	11/09/87	10.21	1475.49
09/17/68	13.78	1471.92	12/08/87	9.92	1475.78
10/07/68	13.77	1471.93			
11/14/68	13.83	1471.87	01/18/88	10.36	1475.34
12/10/68	13.72	1471.98	03/30/88	10.31	1475.39
			05/06/88	10.27	1475.43
01/13/69	13.97	1471.73	06/02/88	10.28	1475.42
03/12/69	13.83	1471.87	07/06/88	10.52	1475.18
04/21/69	13.64	1472.06	08/02/88	10.85	1474.85
05/08/69	13.44	1472.26	09/08/88	11.05	1474.65
06/17/69	13.27	1472.43	10/12/88	11.56	1474.14
07/15/69	13.16	1472.54	11/09/88	11.68	1474.02
08/20/69	13.34	1472.36	12/15/88	11.51	1474.19
09/16/69	13.47	1472.23			
11/19/69	13.52	1472.18	06/15/89	11.78	1473.92
			08/08/89	12.27	1473.43
01/21/70	13.48	1472.22	10/11/89	12.53	1473.17
02/18/70	13.66	1472.04	12/20/89	13.08	1472.62
04/15/70	13.25	1472.45			
05/13/70	13.15	1472.55	04/16/90	13.24	1472.46
10/06/70	13.16	1472.54	06/13/90	13.06	1472.64
11/30/70	13.00	1472.70	09/06/90	13.51	1472.19
			10/31/90	13.59	1472.11

**151-064-12BAA**Unnamed

LS Elev (msl,ft)=1471.3

SI (ft.)=12.5-17.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/04/86	4.94	1466.36	06/02/88	3.78	1467.52
11/05/86	4.86	1466.44	07/06/88	4.23	1467.07
11/20/86	4.77	1466.53	08/02/88	4.51	1466.79
			09/08/88	4.89	1466.41
01/07/87	4.72	1466.58	10/12/88	5.06	1466.24
03/31/87	4.61	1466.69	11/09/88	5.09	1466.21
05/11/87	4.01	1467.29	12/15/88	5.15	1466.15
06/16/87	4.05	1467.25			
07/14/87	4.10	1467.20	06/15/89	4.76	1466.54
08/10/87	3.64	1467.66	08/08/89	5.36	1465.94
09/08/87	3.81	1467.49	10/11/89	5.69	1465.61
10/15/87	3.88	1467.42	12/20/89	5.91	1465.39
11/10/87	3.97	1467.33			
12/08/87	3.89	1467.41	04/16/90	5.80	1465.50
			06/13/90	5.60	1465.70
01/18/88	3.89	1467.41	09/06/90	6.45	1464.85
03/30/88	3.52	1467.78	10/31/90	6.71	1464.59
05/06/88	3.61	1467.69			

**151-064-15CBC**Unnamed

LS Elev (msl,ft)=1548.8

SI (ft.)=14-19

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	11.70	1537.10	03/30/88	11.03	1537.77
10/14/86	11.75	1537.05	05/06/88	10.82	1537.98
10/20/86	11.73	1537.07	06/01/88	10.91	1537.89
10/23/86	11.79	1537.01	07/06/88	11.25	1537.55
11/06/86	11.77	1537.03	08/02/88	11.44	1537.36
11/07/86	11.74	1537.06	09/08/88	11.80	1537.00
			10/12/88	11.95	1536.85
01/07/87	11.80	1537.00	11/09/88	11.99	1536.81
03/31/87	11.67	1537.13	12/14/88	11.89	1536.91
05/11/87	10.78	1538.02			
06/16/87	10.79	1538.01	06/15/89	11.67	1537.13
07/14/87	11.05	1537.75	08/08/89	12.10	1536.70
08/10/87	10.67	1538.13	10/11/89	12.33	1536.47
09/08/87	10.85	1537.95	12/20/89	12.42	1536.38
10/14/87	10.96	1537.84			
11/09/87	11.08	1537.72	04/16/90	12.34	1536.46
12/08/87	11.05	1537.75	06/13/90	12.22	1536.58
			09/06/90	12.64	1536.16
01/18/88	11.19	1537.61	10/31/90	12.73	1536.07

151-064-23DDC

Warwick Aquifer

LS Elev (msl,ft)=1599.7

SI (ft.)=118-121

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/16/69	76.73	1522.97	03/30/88	75.85	1523.85
07/07/70	76.80	1522.90	05/07/88	75.70	1524.00
10/06/70	76.76	1522.94	06/01/88	75.77	1523.93
			07/06/88	75.74	1523.96
			08/02/88	75.75	1523.95
07/18/86	76.48	1523.22	09/08/88	75.76	1523.94
07/31/86	76.43	1523.27	10/12/88	75.96	1523.74
			11/09/88	76.03	1523.67
03/31/87	76.29	1523.41	12/15/88	76.09	1523.61
05/11/87	76.31	1523.39			
06/16/87	76.06	1523.64	06/15/89	76.23	1523.47
07/14/87	76.00	1523.70	08/08/89	76.17	1523.53
08/10/87	75.97	1523.73	10/11/89	76.33	1523.37
09/08/87	75.94	1523.76	12/20/89	76.44	1523.26
10/15/87	75.95	1523.75			
11/09/87	75.94	1523.76	04/16/90	76.58	1523.12
12/08/87	75.78	1523.92	06/13/90	76.61	1523.09
			09/06/90	76.69	1523.01
01/18/88	75.89	1523.81	10/31/90	76.75	1522.95

151-065-02CDD

Tokio Aquifer

LS Elev (msl,ft)=1541.7

SI (ft.)=12-14

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/15/67	3.82	1537.88	10/20/86	2.72	1538.98
12/14/67	3.81	1537.89			
			01/07/87	2.63	1539.07
01/17/68	4.18	1537.52	05/11/87	2.83	1538.87
02/22/68	4.27	1537.43	06/16/87	3.58	1538.12
06/19/68	2.22	1539.48	07/14/87	3.11	1538.59
07/15/68	3.17	1538.53	08/10/87	3.10	1538.60
08/21/68	3.78	1537.92	09/08/87	2.99	1538.71
09/17/68	2.61	1539.09	10/14/87	2.82	1538.88
10/07/68	2.93	1538.77	11/09/87	2.60	1539.10
11/14/68	2.76	1538.94	12/07/87	2.34	1539.36
12/10/68	2.76	1538.94			
			01/19/88	2.94	1538.76
01/13/69	3.59	1538.11	05/06/88	2.08	1539.62
05/08/69	1.52	1540.18	06/01/88	2.92	1538.78
06/17/69	2.39	1539.31	07/06/88	4.26	1537.44
08/20/69	3.70	1538.00	08/02/88	4.43	1537.27
09/16/69	3.87	1537.83	09/08/88	4.98	1536.72
11/19/69	3.17	1538.53	10/12/88	4.33	1537.37
			11/09/88	3.73	1537.97
01/21/70	3.36	1538.34	12/14/88	3.55	1538.15
03/23/70	2.55	1539.15			
04/14/70	2.63	1539.07	06/14/89	2.31	1539.39
05/13/70	1.30	1540.40	08/08/89	4.56	1537.14
06/23/70	2.00	1539.70	10/11/89	4.08	1537.62
10/06/70	3.58	1538.12	12/20/89	4.17	1537.53
11/30/70	3.04	1538.66			
			06/13/90	1.71	1539.99
08/27/86	4.05	1537.65	09/06/90	4.54	1537.16
10/14/86	2.72	1538.98	10/30/90	3.92	1537.78

**151-065-06DCC**Unnamed

LS Elev (msl,ft)=1536.4

SI (ft.)=52-57

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	24.76	1511.64	06/01/88	23.52	1512.88
10/14/86	24.82	1511.58	07/06/88	23.67	1512.73
10/20/86	24.78	1511.62	08/02/88	23.79	1512.61
			09/08/88	24.03	1512.37
01/07/87	24.77	1511.63	10/12/88	24.23	1512.17
03/31/87	24.40	1512.00	11/09/88	24.39	1512.01
05/11/87	23.75	1512.65	12/12/88	24.25	1512.15
06/16/87	23.44	1512.96			
07/14/87	23.58	1512.82	06/14/89	24.49	1511.91
08/10/87	23.26	1513.14	08/08/89	24.78	1511.62
09/08/87	23.43	1512.97	10/11/89	25.10	1511.30
10/14/87	23.51	1512.89	12/20/89	25.33	1511.07
11/09/87	23.66	1512.74			
12/07/87	23.55	1512.85	04/16/90	25.60	1510.80
			06/13/90	25.65	1510.75
01/18/88	23.80	1512.60	09/06/90	25.96	1510.44
03/30/88	23.84	1512.56	10/30/90	26.07	1510.33
05/06/88	23.75	1512.65			

**151-065-13DBC2**Tekio Aquifer

LS Elev (msl,ft)=1591

SI (ft.)=74-79

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/05/86	43.54	1547.46	07/08/88	41.59	1549.41
			08/02/88	41.56	1549.44
05/11/87	42.94	1548.06	09/08/88	41.47	1549.53
06/16/87	42.70	1548.30	10/12/88	41.73	1549.27
07/14/87	42.66	1548.34	11/09/88	41.76	1549.24
08/10/87	42.46	1548.54	12/14/88	41.72	1549.28
09/08/87	42.25	1548.75			
10/14/87	42.12	1548.88	06/14/89	41.99	1549.01
11/09/87	42.02	1548.98	08/08/89	42.04	1548.96
12/07/87	41.87	1549.13	10/11/89	42.17	1548.83
			12/20/89	42.35	1548.65
01/18/88	41.88	1549.12			
03/30/88	41.77	1549.23	06/13/90	42.72	1548.28
05/06/88	41.64	1549.36	09/06/90	42.91	1548.09
06/01/88	41.58	1549.42	10/30/90	43.06	1547.94

**151-065-19CCD**

Till

LS Elev (msl, ft)=1481.2  
SI (ft.)=13-18

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	5.80	1475.40	03/30/88	1.88	1479.32
10/14/86	5.37	1475.83	05/06/88	2.77	1478.43
10/22/86	5.37	1475.83	06/01/88	4.12	1477.08
10/23/86	6.81	1474.39	07/06/88	7.17	1474.03
11/06/86	5.49	1475.71	08/02/88	8.05	1473.15
11/19/86	5.54	1475.66	09/08/88	9.30	1471.90
11/20/86	6.40	1474.80	10/12/88	9.79	1471.41
			11/09/88	9.88	1471.32
01/07/87	5.45	1475.75	12/14/88	9.83	1471.37
03/31/87	0.75	1480.45			
05/11/87	2.59	1478.61	06/14/89	4.77	1476.43
06/16/87	3.33	1477.87	08/08/89	8.87	1472.33
07/14/87	4.06	1477.14	10/11/89	9.66	1471.54
08/10/87	2.67	1478.53	12/20/89	9.15	1472.05
09/08/87	3.64	1477.56			
10/14/87	4.20	1477.00	04/16/90	7.53	1473.67
11/09/87	4.81	1476.39	06/13/90	6.36	1474.84
12/07/87	4.82	1476.38	09/06/90	10.50	1470.70
			10/30/90	10.79	1470.41
01/18/88	5.97	1475.23			

**151-065-23BCC**

Unnamed

LS Elev (msl, ft)=1602.9  
SI (ft.)=105-110

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/14/86	78.37	1524.53	05/06/88	77.20	1525.70
10/23/86	78.36	1524.54	06/01/88	77.13	1525.77
11/06/86	78.57	1524.33	07/08/88	77.47	1525.43
			08/02/88	77.58	1525.32
01/07/87	78.20	1524.70	09/08/88	77.88	1525.02
03/31/87	78.07	1524.83	10/12/88	77.98	1524.92
05/11/87	77.74	1525.16	11/09/88	77.95	1524.95
06/16/87	77.61	1525.29			
07/14/87	77.70	1525.20	06/14/89	77.63	1525.27
08/10/87	77.60	1525.30	08/08/89	77.92	1524.98
09/08/87	77.52	1525.38	10/11/89	78.10	1524.80
10/14/87	77.48	1525.42	12/20/89	78.10	1524.80
11/09/87	77.44	1525.46			
12/07/87	77.36	1525.54	04/16/90	78.00	1524.90
			06/13/90	77.94	1524.96
01/18/88	77.41	1525.49	09/06/90	78.25	1524.65
03/30/88	77.27	1525.63	10/30/90	78.34	1524.56

**151-066-01CCC**Unnamed

LS Elev (msl,ft)=1532.7

SI (ft.)=47-50

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/20/68	35.93	1496.77	09/08/87	29.18	1503.52
09/11/68	35.59	1497.11	10/14/87	29.49	1503.21
09/17/68	35.79	1496.91	11/09/87	29.69	1503.01
10/08/68	35.90	1496.80	12/07/87	29.26	1503.44
11/13/68	35.60	1497.10			
12/10/68	35.51	1497.19	01/18/88	29.92	1502.78
			03/30/88	30.28	1502.42
01/13/69	35.88	1496.82	05/05/88	30.28	1502.42
04/21/69	36.07	1496.63	05/06/88	30.28	1502.42
06/17/69	35.39	1497.31	06/01/88	30.03	1502.67
07/14/69	35.40	1497.30	07/06/88	29.99	1502.71
08/20/69	35.36	1497.34	08/02/88	30.12	1502.58
09/16/69	35.39	1497.31	09/08/88	29.96	1502.74
11/19/69	35.45	1497.25	10/12/88	30.58	1502.12
			11/09/88	30.72	1501.98
01/21/70	35.22	1497.48	12/14/88	30.22	1502.48
04/14/70	35.50	1497.20			
10/06/70	35.59	1497.11	06/14/89	31.33	1501.37
			08/08/89	31.36	1501.34
07/31/86	31.05	1501.65	10/11/89	31.44	1501.26
			12/20/89	32.05	1500.65
04/01/87	31.07	1501.63			
05/11/87	30.17	1502.53	04/16/90	32.41	1500.29
06/16/87	29.53	1503.17	06/13/90	32.42	1500.28
07/14/87	29.62	1503.08	09/06/90	32.66	1500.04
08/10/87	29.24	1503.46	10/30/90	32.84	1499.86

**151-066-09BBB**Till

LS Elev (msl,ft)=1560.54

SI (ft.)=20-25

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	5.55	1554.99	03/30/88	8.02	1552.52
10/14/86	5.21	1555.33	05/06/88	7.69	1552.85
10/20/86	5.44	1555.10	06/01/88	6.69	1553.85
10/23/86	5.99	1554.55	07/06/88	6.99	1553.55
10/30/86	5.26	1555.28	08/02/88	7.32	1553.22
11/06/86	5.15	1555.39	09/08/88	7.86	1552.68
11/20/86	6.83	1553.71	10/12/88	9.04	1551.50
			11/09/88	9.18	1551.36
01/07/87	5.75	1554.79	12/14/88	9.24	1551.30
03/31/87	5.66	1554.88			
05/11/87	4.67	1555.87	06/14/89	8.44	1552.10
06/16/87	4.53	1556.01	08/08/89	8.66	1551.88
07/14/87	4.96	1555.58	10/11/89	9.61	1550.93
08/10/87	4.02	1556.52	12/20/89	10.82	1549.72
09/08/87	4.24	1556.30			
10/14/87	4.79	1555.75	04/16/90	12.26	1548.28
11/09/87	5.34	1555.20	06/13/90	10.98	1549.56
12/07/87	5.16	1555.38	09/06/90	9.51	1551.03
			10/30/90	10.33	1550.21
01/18/88	6.26	1554.28			

151-066-32BBB

LS Elev (msl, ft) = 1493.8

SI (ft.) = 19-21

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/67	9.70	1484.10	10/16/86	8.01	1485.79
10/11/67	9.68	1484.12	10/22/86	8.03	1485.77
11/14/67	9.76	1484.04			
12/13/67	9.87	1483.93	01/08/87	8.04	1485.76
			03/31/87	6.42	1487.38
01/16/68	10.04	1483.76	05/11/87	6.43	1487.37
02/22/68	10.23	1483.57	06/16/87	6.96	1486.84
03/13/68	9.89	1483.91	07/14/87	7.45	1486.35
04/11/68	9.34	1484.46	08/10/87	6.71	1487.09
05/13/68	8.66	1485.14	09/08/87	7.26	1486.54
06/19/68	8.29	1485.51	10/14/87	7.60	1486.20
07/15/68	8.74	1485.06	11/09/87	7.84	1485.96
08/20/68	9.29	1484.51	12/07/87	7.88	1485.92
09/17/68	9.43	1484.37			
10/07/68	9.52	1484.28	01/18/88	8.28	1485.52
11/13/68	9.65	1484.15	03/30/88	7.89	1485.91
12/10/68	9.67	1484.13	05/06/88	7.45	1486.35
			06/01/88	7.52	1486.28
01/13/69	9.83	1483.97	07/06/88	8.01	1485.79
04/21/69	8.18	1485.62	08/02/88	8.41	1485.39
05/13/69	8.03	1485.77	09/08/88	9.09	1484.71
06/17/69	8.25	1485.55	10/12/88	9.41	1484.39
07/14/69	7.71	1486.09	11/09/88	9.50	1484.30
08/20/69	8.40	1485.40	12/14/88	9.55	1484.25
09/16/69	8.89	1484.91			
11/19/69	9.33	1484.47	06/14/89	8.13	1485.67
			08/08/89	9.04	1484.76
01/21/70	9.64	1484.16	10/11/89	9.53	1484.27
03/23/70	9.79	1484.01	12/20/89	9.63	1484.17
04/15/70	8.99	1484.81			
05/13/70	7.99	1485.81	04/16/90	9.55	1484.25
09/08/70	9.26	1484.54	06/13/90	8.75	1485.05
10/06/70	9.42	1484.38	09/06/90	9.01	1484.79
11/30/70	9.53	1484.27	10/30/90	9.31	1484.49

~~151-067-11BAA~~

Oberon Aquifer

LS Elev (msl,ft)=1541.9

SI (ft.)=0-50

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
03/31/87	2.82	1539.08	08/02/88	4.98	1536.92
05/11/87	3.13	1538.77	09/08/88	5.68	1536.22
06/16/87	3.45	1538.45	10/12/88	5.96	1535.94
07/14/87	3.93	1537.97	11/09/88	5.99	1535.91
08/10/87	3.70	1538.20	12/14/88	5.93	1535.97
09/08/87	3.32	1538.58			
10/14/87	3.95	1537.95	06/14/89	4.97	1536.93
11/09/87	4.58	1537.32	08/08/89	5.73	1536.17
12/07/87	4.55	1537.35	10/11/89	5.99	1535.91
			12/20/89	6.20	1535.70
01/18/88	5.01	1536.89			
03/30/88	4.54	1537.36	04/16/90	6.08	1535.82
05/06/88	4.25	1537.65	06/13/90	5.62	1536.28
06/04/88	3.86	1538.04	09/06/90	6.15	1535.75
07/06/88	4.72	1537.18	10/30/90	6.51	1535.39

~~151-068-25BAA~~

Maddock Aquifer

LS Elev (msl,ft)=1505.4

SI (ft.)=23-26

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/25/68	8.70	1496.70	09/08/87	7.63	1497.77
08/20/68	9.31	1496.09	10/14/87	7.85	1497.55
09/11/68	9.08	1496.32	11/09/87	8.02	1497.38
09/17/68	9.22	1496.18	12/07/87	8.07	1497.33
10/07/68	9.34	1496.06			
11/13/68	9.45	1495.95	01/18/88	8.57	1496.83
12/10/68	9.58	1495.82	03/30/88	8.02	1497.38
			05/06/88	7.65	1497.75
04/23/69	6.87	1498.53	06/01/88	8.09	1497.31
05/15/69	7.45	1497.95	07/06/88	8.89	1496.51
06/17/69	8.24	1497.16	08/02/88	9.13	1496.27
07/14/69	7.62	1497.78	09/08/88	9.68	1495.72
09/16/69	9.02	1496.38	10/12/88	9.75	1495.65
11/19/69	9.05	1496.35	11/09/88	9.76	1495.64
			12/14/88	9.81	1495.59
04/15/70	8.17	1497.23			
			06/14/89	8.72	1496.68
10/16/86	7.96	1497.44	08/08/89	9.56	1495.84
10/22/86	8.02	1497.38	10/11/89	9.80	1495.60
			12/20/89	9.92	1495.48
01/08/87	8.04	1497.36			
04/01/87	6.32	1499.08	04/16/90	9.92	1495.48
05/11/87	6.63	1498.77	06/13/90	9.54	1495.86
06/16/87	7.36	1498.04	09/06/90	10.02	1495.38
07/14/87	7.66	1497.74	10/30/90	10.17	1495.23
08/10/87	7.28	1498.12			

**152-062-07ACA1****Spiritwood Aquifer**

LS Elev (msl, ft)=1493.3

SI (ft.)=197-203

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/20/79	57.06	1436.24	04/28/85	49.21	1444.09
12/18/79	53.65	1439.65	07/28/85	51.70	1441.60
			10/31/85	51.19	1442.11
04/08/80	51.86	1441.44			
07/01/80	55.30	1438.00	04/02/86	48.97	1444.33
09/24/80	56.75	1436.55	06/02/86	48.38	1444.92
12/24/80	53.30	1440.00	07/31/86	50.85	1442.45
			11/02/86	50.39	1442.91
04/10/81	51.75	1441.55			
06/29/81	51.58	1441.72	04/29/87	47.82	1445.48
09/24/81	54.25	1439.05	07/02/87	48.23	1445.07
12/30/81	51.80	1441.50	08/30/87	48.69	1444.61
			10/30/87	47.88	1445.42
04/15/82	50.60	1442.70			
05/27/82	50.10	1443.20	03/31/88	46.68	1446.62
08/02/82	50.69	1442.61	05/30/88	47.18	1446.12
09/30/82	53.38	1439.92	08/30/88	53.99	1439.31
12/01/82	51.08	1442.22	10/29/88	51.98	1441.32
04/06/83	49.19	1444.11	04/26/89	48.74	1444.56
06/04/83	48.69	1444.61	06/27/89	49.40	1443.90
09/01/83	53.31	1439.99	08/31/89	55.26	1438.04
11/01/83	51.16	1442.14	10/31/89	53.04	1440.26
04/04/84	48.72	1444.58	04/03/90	50.29	1443.01
06/01/84	48.46	1444.84	06/01/90	50.15	1443.15
08/31/84	53.82	1439.48	08/31/90	53.95	1439.35
10/31/84	52.29	1441.01	10/29/90	53.92	1439.38

**152-062-21DBD****Spiritwood Aquifer**

LS Elev (msl, ft)=1444.6

SI (ft.)=124-130

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/17/79	11.03	1433.57	08/31/84	4.70	1439.90
08/17/79	7.70	1436.90	10/31/84	2.41	1442.19
09/20/79	7.79	1436.81			
12/18/79	3.88	1440.72	04/28/85	-0.60	1445.20
			07/28/85	2.94	1441.66
07/01/80	8.51	1436.09	10/31/85	1.42	1443.18
09/24/80	7.04	1437.56			
12/23/80	3.50	1441.10	04/02/86	-0.64	1445.24
			06/02/86	-1.15	1445.75
04/10/81	1.94	1442.66	07/31/86	1.54	1443.06
06/29/81	1.84	1442.76	11/02/86	0.79	1443.81
09/24/81	4.84	1439.76			
12/30/81	2.00	1442.60	07/02/87	-0.76	1445.36
			08/30/87	-0.70	1445.30
04/15/82	0.73	1443.87	10/30/87	-1.80	1446.40
05/27/82	0.25	1444.35			
08/01/82	1.17	1443.43	08/30/88	5.08	1439.52
09/29/82	3.80	1440.80	10/29/88	2.48	1442.12
12/01/82	0.94	1443.66			
			04/26/89	-0.77	1445.37
04/06/83	0.64	1443.96	06/27/89	0.12	1444.48
06/04/83	0.89	1443.71	08/31/89	6.42	1438.18
09/01/83	4.00	1440.60	10/31/89	3.45	1441.15
10/30/83	1.39	1443.21			
			06/01/90	0.66	1443.94
04/04/84	1.20	1443.40	08/31/90	5.17	1439.43
06/01/84	1.29	1443.31	10/29/90	4.34	1440.26

**152-062-27AAA****Spiritwood Aquifer**

LS Elev (msl, ft)=1450.3

SI (ft.)=138-143

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/17/79	6.74	1443.56	04/04/84	2.78	1447.52
06/13/79	4.50	1445.80	06/01/84	2.68	1447.62
07/11/79	4.09	1446.21	08/31/84	7.14	1443.16
08/07/79	3.78	1446.52	10/31/84	6.51	1443.79
08/17/79	4.17	1446.13			
09/20/79	4.13	1446.17	04/28/85	3.95	1446.35
11/01/79	4.30	1446.00	07/28/85	5.93	1444.37
12/18/79	4.76	1445.54	10/31/85	5.42	1444.88
04/07/80	2.32	1447.98	04/02/86	3.65	1446.65
05/06/80	2.86	1447.44	06/02/86	3.00	1447.30
06/04/80	4.45	1445.85	07/31/86	4.91	1445.39
07/01/80	5.76	1444.54	11/01/86	4.85	1445.45
07/30/80	7.42	1442.88			
08/28/80	7.46	1442.84	04/29/87	2.29	1448.01
09/24/80	6.37	1443.93	07/02/87	2.89	1447.41
12/23/80	5.70	1444.60	08/30/87	3.00	1447.30
			10/30/87	2.28	1448.02
04/10/81	3.89	1446.41			
07/28/81	5.80	1444.50	05/30/88	1.88	1448.42
12/30/81	5.48	1444.82	08/30/88	8.33	1441.97
			10/29/88	6.64	1443.66
04/15/82	4.35	1445.95			
05/27/82	4.83	1445.47	04/26/89	3.75	1446.55
08/01/82	4.01	1446.29	06/27/89	4.23	1446.07
09/29/82	6.61	1443.69	08/31/89	9.65	1440.65
12/01/82	4.63	1445.67	10/31/89	7.78	1442.52
04/06/83	3.27	1447.03	04/03/90	5.44	1444.86
06/04/83	3.02	1447.28	06/01/90	5.25	1445.05
09/01/83	6.72	1443.58	08/31/90	7.52	1442.78
10/30/83	4.68	1445.62	10/29/90	8.68	1441.62

**152-062-28DBD**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1444.8  
SI (ft.) = 137-143

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/17/79	10.69	1434.11	08/31/84	5.39	1439.41
08/17/79	8.04	1436.76	10/31/84	2.26	1442.54
09/20/79	7.83	1436.97			
12/18/79	3.68	1441.12	04/28/85	-0.78	1445.58
			07/28/85	3.57	1441.23
04/08/80	1.83	1442.97	10/31/85	1.16	1443.64
07/01/80	7.44	1437.36			
09/24/80	6.85	1437.95	04/02/86	0.11	1444.69
12/23/80	3.36	1441.44	06/02/86	-1.27	1446.07
			07/31/86	1.57	1443.23
04/10/81	1.80	1443.00	11/02/86	0.54	1444.26
06/29/81	1.79	1443.01			
09/24/81	4.79	1440.01	07/02/87	-0.77	1445.57
12/30/81	1.80	1443.00	08/30/87	-0.85	1445.65
05/27/82	0.15	1444.65	08/30/88	5.19	1439.61
08/01/82	1.34	1443.46	10/29/88	2.01	1442.79
09/29/82	3.89	1440.91			
12/01/82	1.09	1443.71	04/26/89	-1.16	1445.96
			06/27/89	0.30	1444.50
06/04/83	0.99	1443.81	08/31/89	6.56	1438.24
09/01/83	4.18	1440.62	10/31/89	3.15	1441.65
10/30/83	1.28	1443.52			
			06/01/90	0.48	1444.32
04/04/84	1.31	1443.49	08/31/90	5.56	1439.24
06/01/84	1.31	1443.49	10/29/90	4.08	1440.72

**152-062-33CDA1**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1486.8  
SI (ft.) = 318-323

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	35.05	1451.75	04/20/89	35.22	1451.58
10/01/87	34.89	1451.91	06/15/89	37.03	1449.77
10/06/87	34.91	1451.89	07/13/89	46.23	1440.57
10/14/87	34.76	1452.04	08/08/89	48.76	1438.04
10/20/87	34.60	1452.20	09/12/89	44.11	1442.69
10/27/87	34.45	1452.35	10/12/89	40.75	1446.05
11/10/87	34.23	1452.57	12/19/89	38.09	1448.71
12/08/87	33.78	1453.02			
			02/06/90	37.25	1449.55
01/19/88	33.47	1453.33	04/16/90	36.65	1450.15
02/24/88	33.24	1453.56	05/16/90	36.53	1450.27
03/31/88	33.14	1453.66	06/13/90	37.29	1449.51
05/07/88	34.12	1452.68	07/10/90	38.57	1448.23
06/04/88	34.92	1451.88	07/11/90	38.57	1448.23
07/08/88	46.78	1440.02	08/10/90	44.98	1441.82
08/04/88	47.61	1439.19	09/06/90	46.23	1440.57
09/09/88	43.12	1443.68	10/02/90	42.95	1443.85
10/13/88	39.60	1447.20	10/31/90	40.57	1446.23
11/10/88	37.98	1448.82	11/28/90	39.47	1447.33
12/17/88	36.90	1449.90			
			04/18/91	37.47	1449.33
03/20/89	35.54	1451.26			

**152-062-33CDA2**Clay Sediments

LS Elev (msl, ft)=1486.8

SI (ft.)=45-50

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	20.32	1466.48	04/20/89	26.68	1460.12
10/01/87	19.86	1466.94	06/15/89	26.89	1459.91
10/06/87	20.34	1466.46	07/13/89	27.26	1459.54
10/14/87	20.68	1466.12	08/08/89	27.18	1459.62
10/20/87	20.92	1465.88	09/12/89	27.61	1459.19
10/27/87	20.89	1465.91	10/12/89	27.46	1459.34
11/10/87	21.22	1465.58	12/19/89	27.88	1458.92
12/08/87	21.38	1465.42			
			02/06/90	28.04	1458.76
01/19/88	22.50	1464.30	04/16/90	28.64	1458.16
02/24/88	22.92	1463.88	05/16/90	28.33	1458.47
03/31/88	23.39	1463.41	06/13/90	28.72	1458.08
05/07/88	23.08	1463.72	07/10/90	28.62	1458.18
06/04/88	23.79	1463.01	07/11/90	28.62	1458.18
07/08/88	24.12	1462.68	08/10/90	28.79	1458.01
08/04/88	24.46	1462.34	09/06/90	28.72	1458.08
09/09/88	24.57	1462.23	10/02/90	28.43	1458.37
10/13/88	25.19	1461.61	10/31/90	28.79	1458.01
11/10/88	25.37	1461.43	11/28/90	29.41	1457.39
12/17/88	26.20	1460.60			
			04/18/91	30.04	1456.76
03/20/89	26.76	1460.04			

**152-062-33CDA3**Spiritwood Aquifer

LS Elev (msl, ft)=1487.1

SI (ft.)=168-173

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	35.24	1451.86	04/20/89	35.38	1451.72
10/01/87	35.14	1451.96	06/15/89	37.23	1449.87
10/06/87	35.07	1452.03	07/13/89	46.44	1440.66
10/14/87	34.91	1452.19	08/08/89	48.97	1438.13
10/20/87	34.77	1452.33	09/12/89	44.28	1442.82
10/27/87	34.59	1452.51	10/12/89	40.93	1446.17
11/10/87	34.41	1452.69	12/19/89	38.28	1448.82
12/08/87	33.95	1453.15			
			02/06/90	37.43	1449.67
01/19/88	33.60	1453.50	04/16/90	36.82	1450.28
02/24/88	33.38	1453.72	05/16/90	36.73	1450.37
03/31/88	33.28	1453.82	06/13/90	37.47	1449.63
05/07/88	34.31	1452.79	07/10/90	38.77	1448.33
06/04/88	35.08	1452.02	07/11/90	38.77	1448.33
07/08/88	47.33	1439.77	08/10/90	45.19	1441.91
08/04/88	47.81	1439.29	09/06/90	46.44	1440.66
09/09/88	43.30	1443.80	10/02/90	43.14	1443.96
10/13/88	39.79	1447.31	10/31/90	40.75	1446.35
11/10/88	38.15	1448.95	11/28/90	39.65	1447.45
12/17/88	37.07	1450.03			
			04/18/91	37.66	1449.44
03/20/89	35.75	1451.35			

**152-062-33CDA4****Clay Sediments**

LS Elev (msl,ft)=1487.2

SI (ft.)=133-138

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	20.14	1467.06	03/20/89	25.82	1461.38
10/01/87	84.63	1402.57	04/20/89	26.21	1460.99
10/06/87	32.26	1454.94	06/15/89	26.59	1460.61
10/14/87	26.22	1460.98	07/13/89	26.88	1460.32
10/20/87	30.04	1457.16	08/08/89	27.23	1459.97
10/27/87	29.30	1457.90	09/12/89	27.31	1459.89
10/28/87	82.88	1404.32	10/12/89	27.59	1459.61
11/10/87	24.94	1462.26	12/19/89	27.78	1459.42
12/08/87	22.32	1464.88			
			02/06/90	27.92	1459.28
01/19/88	22.17	1465.03	04/16/90	28.30	1458.90
02/24/88	22.43	1464.77	05/16/90	28.52	1458.68
03/31/88	22.89	1464.31	06/13/90	28.40	1458.80
05/07/88	23.14	1464.06	07/10/90	28.67	1458.53
06/04/88	23.34	1463.86	07/11/90	28.67	1458.53
07/08/88	23.74	1463.46	08/10/90	28.91	1458.29
08/04/88	24.21	1462.99	09/06/90	28.99	1458.21
09/09/88	24.79	1462.41	10/02/90	29.19	1458.01
10/13/88	25.09	1462.11	10/31/90	29.30	1457.90
11/10/88	25.24	1461.96	11/28/90	29.35	1457.85
12/17/88	25.42	1461.78			
			04/18/91	29.79	1457.41

**152-062-33CDA5****Till**

LS Elev (msl,ft)=1487

SI (ft.)=18-23

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	20.48	1466.52	08/04/88	24.59	1462.41
10/01/87	20.04	1466.96	09/09/88	24.77	1462.23
10/06/87	20.51	1466.49	10/13/88	25.40	1461.60
10/14/87	20.86	1466.14	11/10/88	25.56	1461.44
10/20/87	21.13	1465.87	12/17/88	26.42	1460.58
10/27/87	21.07	1465.93			
11/10/87	21.41	1465.59	03/20/89	26.96	1460.04
12/08/87	21.59	1465.41	04/20/89	26.86	1460.14
			06/15/89	27.13	1459.87
01/19/88	22.70	1464.30	07/13/89	27.46	1459.54
02/24/88	23.08	1463.92	08/08/89	27.39	1459.61
03/31/88	23.54	1463.46	09/12/89	27.85	1459.15
05/07/88	23.25	1463.75	10/12/89	27.70	1459.30
06/04/88	23.99	1463.01	12/19/89	28.13	1458.87
07/08/88	24.33	1462.67			

**152-062-33DCB****Spiritwood Aquifer**

LS Elev (msl, ft)=1484.6

SI (ft.)=200-203

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/27/73	42.53	1442.07	07/08/88	34.57	1450.03
10/16/73	42.57	1442.03	08/04/88	34.91	1449.69
11/21/73	42.53	1442.07	09/09/88	35.26	1449.34
			10/13/88	35.41	1449.19
01/07/74	42.39	1442.21	11/10/88	35.45	1449.15
02/13/74	42.34	1442.26	12/16/88	35.42	1449.18
03/28/74	42.38	1442.22			
05/07/74	42.25	1442.35	04/20/89	35.14	1449.46
06/17/74	41.95	1442.65	06/15/89	35.03	1449.57
07/22/74	41.81	1442.79	07/13/89	35.13	1449.47
08/19/74	42.00	1442.60	08/08/89	35.49	1449.11
09/23/74	42.03	1442.57	09/12/89	35.88	1448.72
10/29/74	41.98	1442.62	10/12/89	38.34	1446.26
11/25/74	41.92	1442.68	12/19/89	38.21	1446.39
12/30/74	41.50	1443.10			
			02/06/90	38.04	1446.56
07/24/87	35.15	1449.45	04/16/90	37.79	1446.81
08/13/87	35.51	1449.09	05/16/90	37.73	1446.87
09/09/87	35.44	1449.16	06/13/90	37.58	1447.02
10/15/87	35.33	1449.27	07/10/90	37.49	1447.11
11/10/87	35.24	1449.36	07/11/90	37.49	1447.11
12/08/87	35.13	1449.47	08/10/90	37.56	1447.04
			09/06/90	37.76	1446.84
01/19/88	34.91	1449.69	10/02/90	37.89	1446.71
02/24/88	34.74	1449.86	10/31/90	37.94	1446.66
03/31/88	34.58	1450.02	11/28/90	37.92	1446.68
05/07/88	34.43	1450.17			
06/04/88	34.37	1450.23	04/18/91	37.59	1447.01

**152-063-10DAC**  
**Spiritwood Aquifer**

LS Elev (msl,ft)=1443.6  
SI (ft.)=170-174

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/21/68	16.40	1427.20	05/12/87	10.05	1433.55
09/11/68	16.34	1427.26	06/16/87	9.25	1434.35
09/17/68	16.29	1427.31	07/14/87	9.18	1434.42
10/08/68	16.37	1427.23	08/10/87	9.00	1434.60
11/14/68	16.34	1427.26	09/09/87	9.08	1434.52
12/10/68	16.36	1427.24	10/15/87	9.25	1434.35
			11/10/87	9.41	1434.19
01/04/69	16.20	1427.40	12/08/87	9.45	1434.15
04/21/69	16.38	1427.22			
05/08/69	16.17	1427.43	01/19/88	9.72	1433.88
07/15/69	15.79	1427.81	03/31/88	9.99	1433.61
08/25/69	15.84	1427.76	05/07/88	9.82	1433.78
09/16/69	15.93	1427.67	06/04/88	10.02	1433.58
11/19/69	15.95	1427.65	07/08/88	10.18	1433.42
			08/04/88	10.53	1433.07
01/21/70	15.99	1427.61	09/09/88	10.89	1432.71
02/18/70	16.14	1427.46	10/13/88	11.33	1432.27
03/23/70	15.97	1427.63	11/10/88	11.54	1432.06
04/15/70	16.04	1427.56	12/15/88	11.91	1431.69
05/13/70	16.00	1427.60			
07/07/70	15.72	1427.88	06/15/89	12.11	1431.49
09/08/70	15.78	1427.82	08/08/89	12.44	1431.16
10/06/70	15.92	1427.68	10/12/89	12.92	1430.68
11/12/70	15.83	1427.77	12/19/89	13.28	1430.32
11/30/70	15.46	1428.14			
			04/16/90	13.83	1429.77
07/18/86	10.29	1433.31	06/13/90	13.91	1429.69
07/31/86	10.32	1433.28	09/06/90	14.07	1429.53
			10/31/90	14.18	1429.42
04/01/87	10.78	1432.82			

152-063-13ABD

Spiritwood Aquifer

LS Elev (msl,ft)=1472.2

SI (ft.)=297-303

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/17/79	41.60	1430.60	12/08/87	37.97	1434.23
09/20/79	40.76	1431.44			
12/18/79	40.30	1431.90	01/19/88	37.86	1434.34
			02/24/88	37.70	1434.50
04/08/80	39.48	1432.72	03/31/88	37.74	1434.46
07/01/80	40.20	1432.00	05/07/88	37.67	1434.53
08/28/80	40.41	1431.79	05/30/88	37.67	1434.53
09/24/80	40.23	1431.97	06/04/88	37.77	1434.43
12/23/80	39.91	1432.29	07/08/88	38.01	1434.19
			08/04/88	38.31	1433.89
04/10/81	39.69	1432.51	08/30/88	38.45	1433.75
06/29/81	39.50	1432.70	09/09/88	38.51	1433.69
09/24/81	39.93	1432.27	10/13/88	38.69	1433.51
12/30/81	39.72	1432.48	10/29/88	38.66	1433.54
			11/10/88	38.69	1433.51
04/15/82	39.53	1432.67	12/15/88	38.74	1433.46
05/27/82	39.40	1432.80			
08/02/82	39.25	1432.95	03/20/89	36.80	1435.40
09/30/82	39.66	1432.54	04/20/89	38.83	1433.37
12/01/82	39.10	1433.10	04/26/89	38.80	1433.40
			06/15/89	39.06	1433.14
06/04/83	38.70	1433.50	06/27/89	39.07	1433.13
09/01/83	38.89	1433.31	07/13/89	39.42	1432.78
11/01/83	38.66	1433.54	08/08/89	39.67	1432.53
			08/31/89	39.87	1432.33
04/04/84	38.40	1433.80	09/12/89	39.84	1432.36
06/01/84	38.33	1433.87	10/12/89	39.88	1432.32
08/31/84	38.84	1433.36	10/31/89	39.93	1432.27
10/31/84	38.83	1433.37	12/19/89	40.04	1432.16
04/28/85	38.82	1433.38	02/06/90	40.08	1432.12
07/28/85	39.07	1433.13	04/03/90	40.08	1432.12
10/31/85	38.59	1433.61	04/16/90	40.26	1431.94
			05/16/90	40.26	1431.94
04/02/86	38.29	1433.91	06/01/90	40.27	1431.93
06/02/86	38.14	1434.06	06/13/90	40.29	1431.91
07/31/86	38.29	1433.91	07/10/90	40.47	1431.73
11/02/86	38.44	1433.76	07/11/90	40.47	1431.73
			08/10/90	40.79	1431.41
04/29/87	37.89	1434.31	08/31/90	40.79	1431.41
07/02/87	37.75	1434.45	09/06/90	40.94	1431.26
08/10/87	37.54	1434.66	10/02/90	41.00	1431.20
08/30/87	37.54	1434.66	10/29/90	41.09	1431.11
09/09/87	37.63	1434.57	10/31/90	41.11	1431.09
10/15/87	37.98	1434.22	11/28/90	41.25	1430.95
10/30/87	38.22	1433.98			
11/10/87	38.24	1433.96	04/18/91	41.51	1430.69

**152-063-13ACB1****Till**

LS Elev (msl,ft)=1461.1

SI (ft.)=248-253

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	27.86	1433.24	04/20/89	29.18	1431.92
10/01/87	48.14	1412.96	06/15/89	29.22	1431.88
10/06/87	29.65	1431.45	07/13/89	29.66	1431.44
10/14/87	28.00	1433.10	08/08/89	29.92	1431.18
10/20/87	27.67	1433.43	09/12/89	30.14	1430.96
10/27/87	27.49	1433.61	10/12/89	30.24	1430.86
11/10/87	27.42	1433.68	12/19/89	30.56	1430.54
12/08/87	27.29	1433.81			
			02/06/90	30.71	1430.39
01/19/88	27.40	1433.70	04/16/90	30.88	1430.22
02/24/88	27.43	1433.67	05/16/90	30.79	1430.31
03/31/88	27.39	1433.71	06/13/90	30.83	1430.27
05/07/88	27.48	1433.62	07/10/90	30.91	1430.19
06/04/88	27.52	1433.58	07/11/90	30.91	1430.19
07/08/88	28.05	1433.05	08/10/90	31.20	1429.90
08/04/88	28.29	1432.81	09/06/90	31.39	1429.71
09/09/88	28.65	1432.45	10/02/90	31.46	1429.64
10/13/88	28.94	1432.16	10/31/90	31.59	1429.51
11/10/88	29.03	1432.07	11/28/90	31.77	1429.33
12/15/88	29.22	1431.88			
			04/18/91	32.05	1429.05
03/20/89	29.46	1431.64			

**152-063-13ACB2****Till**

LS Elev (msl,ft)=1461.6

SI (ft.)=62-67

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	15.39	1446.21	04/20/89	16.56	1445.04
10/01/87	20.01	1441.59	06/15/89	16.75	1444.85
10/06/87	16.14	1445.46	07/13/89	17.09	1444.51
10/14/87	15.86	1445.74	08/08/89	17.34	1444.26
10/20/87	15.97	1445.63	09/12/89	17.33	1444.27
10/27/87	16.05	1445.55	10/12/89	17.33	1444.27
10/28/87	15.58	1446.02	12/19/89	17.13	1444.47
11/10/87	15.85	1445.75			
12/08/87	15.38	1446.22	02/06/90	17.10	1444.50
			04/16/90	17.41	1444.19
01/19/88	15.25	1446.35	05/16/90	17.59	1444.01
02/24/88	15.27	1446.33	06/13/90	17.70	1443.90
03/31/88	15.46	1446.14	07/10/90	17.93	1443.67
05/07/88	15.56	1446.04	07/11/90	17.93	1443.67
06/04/88	15.71	1445.89	08/10/90	18.30	1443.30
07/08/88	16.10	1445.50	09/06/90	18.43	1443.17
08/04/88	16.53	1445.07	10/02/90	18.40	1443.20
09/09/88	16.75	1444.85	10/31/90	18.32	1443.28
10/13/88	16.77	1444.83	11/28/90	18.26	1443.34
11/10/88	16.66	1444.94			
12/15/88	16.54	1445.06	04/18/91	18.45	1443.15

**152-063-13ACB3**Till

LS Elev (msl, ft)=1462.2

SI (ft.)=308-313

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	34.50	1427.70	04/20/89	29.23	1432.97
10/01/87	48.35	1413.85	06/15/89	29.40	1432.80
10/06/87	37.85	1424.35	07/13/89	29.80	1432.40
10/14/87	31.68	1430.52	08/08/89	30.05	1432.15
10/20/87	30.18	1432.02	09/12/89	30.20	1432.00
10/27/87	29.34	1432.86	10/12/89	30.26	1431.94
11/10/87	28.73	1433.47	12/19/89	30.40	1431.80
12/08/87	28.24	1433.96			
			02/06/90	30.52	1431.68
01/19/88	28.12	1434.08	04/16/90	30.69	1431.51
02/24/88	27.97	1434.23	05/16/90	30.68	1431.52
03/31/88	28.02	1434.18	06/13/90	30.71	1431.49
05/07/88	27.94	1434.26	07/10/90	30.84	1431.36
06/04/88	28.06	1434.14	07/11/90	30.84	1431.36
07/08/88	28.28	1433.92	08/10/90	31.17	1431.03
08/04/88	28.66	1433.54	09/06/90	31.33	1430.87
09/09/88	28.88	1433.32	10/02/90	31.38	1430.82
10/13/88	29.08	1433.12	10/31/90	31.48	1430.72
11/10/88	29.09	1433.11	11/28/90	31.64	1430.56
12/15/88	29.19	1433.01			
			04/18/91	31.91	1430.29
03/20/89	28.58	1433.62			

**152-063-13ACB4**Till

LS Elev (msl, ft)=1462.7

SI (ft.)=15-25

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	14.32	1448.38	04/20/89	15.97	1446.73
10/01/87	14.10	1448.60	06/15/89	15.76	1446.94
10/06/87	14.54	1448.16	07/13/89	16.08	1446.62
10/14/87	14.72	1447.98	08/08/89	15.88	1446.82
10/20/87	14.87	1447.83	09/12/89	16.07	1446.63
10/27/87	14.81	1447.89	10/12/89	16.03	1446.67
11/10/87	14.88	1447.82	12/19/89	16.15	1446.55
12/08/87	14.97	1447.73			
			02/06/90	16.15	1446.55
01/19/88	15.64	1447.06	04/16/90	16.32	1446.38
02/24/88	15.64	1447.06	05/16/90	16.21	1446.49
03/31/88	15.33	1447.37	06/13/90	16.32	1446.38
05/07/88	14.97	1447.73	07/10/90	16.41	1446.29
06/04/88	15.74	1446.96	07/11/90	16.41	1446.29
07/08/88	15.88	1446.82	08/10/90	16.39	1446.31
08/04/88	15.87	1446.83	09/06/90	16.33	1446.37
09/09/88	15.84	1446.86	10/02/90	16.20	1446.50
10/13/88	15.95	1446.75	10/31/90	16.36	1446.34
11/10/88	15.95	1446.75	11/28/90	16.46	1446.24
12/15/88	16.20	1446.50			
			04/18/91	16.62	1446.08
03/20/89	16.18	1446.52			

**152-063-18CCC**Lake Clay

LS Elev (msl, ft)=1456.4

SI (ft.)=33-38

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/14/86	12.33	1444.07	05/06/88	14.77	1441.63
10/22/86	12.82	1443.58	06/02/88	14.64	1441.76
10/23/86	18.44	1437.96	07/06/88	14.91	1441.49
10/29/86	13.93	1442.47	08/02/88	15.27	1441.13
10/30/86	18.56	1437.84	09/08/88	15.26	1441.14
			10/13/88	16.00	1440.40
01/07/87	13.92	1442.48	11/09/88	16.06	1440.34
03/31/87	12.59	1443.81	12/15/88	16.42	1439.98
05/11/87	8.40	1448.00			
06/16/87	10.14	1446.26	06/15/89	16.73	1439.67
07/14/87	11.57	1444.83	08/08/89	16.96	1439.44
08/10/87	11.28	1445.12	10/12/89	17.16	1439.24
09/08/87	11.53	1444.87	12/20/89	18.22	1438.18
10/15/87	12.10	1444.30			
11/10/87	12.60	1443.80	04/16/90	19.31	1437.09
12/08/87	12.53	1443.87	06/13/90	19.54	1436.86
			09/06/90	20.10	1436.30
01/18/88	13.45	1442.95	10/31/90	20.27	1436.13
03/30/88	14.48	1441.92			

**152-064-02CBB**Spiritwood Aquifer

LS Elev (msl, ft)=1438.1

SI (ft.)=107-113

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/19/69	15.73	1422.37	12/08/87	6.68	1431.42
01/21/70	15.86	1422.24	01/19/88	6.83	1431.27
02/18/70	15.89	1422.21	03/31/88	6.93	1431.17
04/14/70	15.94	1422.16	05/06/88	7.01	1431.09
06/23/70	14.90	1423.20	06/02/88	7.06	1431.04
07/06/70	14.94	1423.16	07/06/88	7.53	1430.57
09/08/70	14.89	1423.21	08/04/88	8.02	1430.08
11/12/70	15.12	1422.98	09/08/88	8.43	1429.67
12/01/70	15.01	1423.09	10/13/88	8.76	1429.34
			11/09/88	8.78	1429.32
07/18/86	7.17	1430.93	12/15/88	8.84	1429.26
07/30/86	7.13	1430.97			
			06/15/89	8.94	1429.16
03/31/87	7.08	1431.02	08/08/89	9.80	1428.30
05/11/87	6.41	1431.69	10/12/89	10.06	1428.04
06/16/87	6.34	1431.76	12/20/89	10.28	1427.82
07/14/87	6.49	1431.61			
08/10/87	6.37	1431.73	04/16/90	10.55	1427.55
09/09/87	6.54	1431.56	06/13/90	10.51	1427.59
10/15/87	6.65	1431.45	09/07/90	11.09	1427.01
11/10/87	6.75	1431.35	10/31/90	11.39	1426.71

**152-064-07BCA****Spiritwood Aquifer**

LS Elev (msl, ft)=1432.1

SI (ft.)=117-120

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/24/68	20.20	1411.90	03/31/87	5.22	1426.88
08/20/68	20.27	1411.83	05/11/87	4.42	1427.68
09/11/68	20.44	1411.66	06/16/87	3.94	1428.16
09/17/68	20.36	1411.74	07/14/87	3.83	1428.27
10/08/68	20.47	1411.63	08/10/87	3.79	1428.31
11/14/68	20.57	1411.53	09/09/87	3.94	1428.16
12/10/68	20.58	1411.52	10/15/87	4.20	1427.90
			11/10/87	4.32	1427.78
01/13/69	20.76	1411.34	12/08/87	4.31	1427.79
04/21/69	20.05	1412.05			
05/08/69	19.89	1412.21	01/18/88	4.42	1427.68
06/17/69	19.03	1413.07	03/30/88	4.33	1427.77
07/15/69	18.28	1413.82	05/06/88	4.36	1427.74
08/20/69	17.45	1414.65	06/02/88	4.48	1427.62
09/16/69	17.06	1415.04	07/08/88	4.79	1427.31
11/19/69	16.39	1415.71	08/04/88	5.22	1426.88
			09/09/88	5.70	1426.40
01/21/70	15.98	1416.12	10/13/88	6.07	1426.03
02/18/70	15.92	1416.18	11/10/88	6.20	1425.90
03/23/70	15.68	1416.42	12/16/88	6.35	1425.75
04/14/70	15.53	1416.57			
05/13/70	15.09	1417.01	06/15/89	6.09	1426.01
09/08/70	13.62	1418.48	08/08/89	6.67	1425.43
10/06/70	13.64	1418.46	10/12/89	7.20	1424.90
11/12/70	13.62	1418.48	12/20/89	7.55	1424.55
12/01/70	13.49	1418.61			
			04/17/90	7.52	1424.58
07/18/86	5.42	1426.68	06/13/90	7.50	1424.60
07/30/86	5.37	1426.73	09/07/90	8.11	1423.99
			10/31/90	8.54	1423.56

**152-064-07CDD****Till**

LS Elev (msl, ft)=1442.2

SI (ft.)=23-28

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	13.04	1429.16	05/06/88	15.07	1427.13
10/14/86	13.34	1428.86	06/02/88	14.71	1427.49
10/22/86	13.93	1428.27	07/08/88	15.29	1426.91
10/23/86	21.29	1420.91	08/04/88	15.92	1426.28
11/06/86	14.11	1428.09	09/09/88	16.69	1425.51
			10/13/88	17.52	1424.68
01/07/87	13.28	1428.92	11/10/88	17.64	1424.56
03/31/87	9.28	1432.92	12/16/88	18.10	1424.10
05/11/87	8.87	1433.33			
06/16/87	10.26	1431.94	06/15/89	15.60	1426.60
07/14/87	12.12	1430.08	08/08/89	17.11	1425.09
08/10/87	10.30	1431.90	10/12/89	18.48	1423.72
09/09/87	12.33	1429.87	12/20/89	19.44	1422.76
10/15/87	13.20	1429.00			
11/10/87	14.01	1428.19	04/17/90	20.29	1421.91
12/08/87	14.01	1428.19	06/13/90	20.30	1421.90
			09/07/90	20.43	1421.77
01/18/88	14.49	1427.71	10/31/90	20.83	1421.37
03/30/88	15.13	1427.07			

**152-064-08BAB**Till

LS Elev (msl, ft)=1430.4

SI (ft.)=13-18

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	5.54	1424.86	05/06/88	3.23	1427.17
10/14/86	5.90	1424.50	06/02/88	3.66	1426.74
10/20/86	6.02	1424.38	07/08/88	3.97	1426.43
10/22/86	6.03	1424.37	08/04/88	6.07	1424.33
			09/09/88	7.71	1422.69
01/07/87	6.51	1423.89	10/13/88	8.49	1421.91
03/31/87	4.49	1425.91	11/10/88	8.85	1421.55
05/11/87	3.00	1427.40	12/16/88	8.24	1422.16
06/16/87	2.57	1427.83			
07/14/87	2.15	1428.25	06/15/89	6.24	1424.16
08/10/87	2.45	1427.95	08/08/89	7.71	1422.69
09/09/87	2.73	1427.67	10/12/89	8.83	1421.57
10/15/87	3.10	1427.30	12/20/89	9.52	1420.88
11/10/87	3.45	1426.95			
12/08/87	3.55	1426.85	04/17/90	10.26	1420.14
			06/13/90	8.80	1421.60
01/19/88	4.25	1426.15	09/07/90	9.11	1421.29
03/30/88	3.95	1426.45	10/31/90	9.93	1420.47

**152-064-08BDA**Sand Sediments

LS Elev (msl, ft)=1438

SI (ft.)=57.5-62.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/26/86	23.58	1414.42	05/06/88	23.04	1414.96
10/01/86	23.37	1414.63	06/02/88	23.04	1414.96
10/14/86	23.57	1414.43	07/08/88	23.16	1414.84
10/20/86	23.40	1414.60	08/04/88	23.31	1414.69
			09/09/88	23.65	1414.35
01/07/87	23.56	1414.44	10/13/88	23.92	1414.08
03/31/87	23.49	1414.51	11/10/88	24.13	1413.87
05/11/87	22.97	1415.03	12/16/88	24.22	1413.78
06/16/87	22.69	1415.31			
07/14/87	22.67	1415.33	06/15/89	24.20	1413.80
08/10/87	22.42	1415.58	08/08/89	24.38	1413.62
09/09/87	22.47	1415.53	10/12/89	24.70	1413.30
10/15/87	22.55	1415.45	12/20/89	25.06	1412.94
11/10/87	22.65	1415.35			
12/08/87	22.77	1415.23	04/17/90	25.42	1412.58
			06/13/90	25.37	1412.63
01/19/88	22.95	1415.05	09/07/90	25.52	1412.48
03/30/88	23.17	1414.83	10/31/90	25.64	1412.36

**152-064-08BDD**Sand Sediments

LS Elev (msl, ft)=1420.2

SI (ft.)=7-17

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/26/86	5.33	1414.87	05/06/88	7.08	1413.12
10/14/86	7.48	1412.72	06/02/88	7.25	1412.95
10/20/86	7.51	1412.69	07/08/88	7.20	1413.00
			08/04/88	7.34	1412.86
01/07/87	7.53	1412.67	09/09/88	7.64	1412.56
03/31/87	7.21	1412.99	10/13/88	7.74	1412.46
05/11/87	7.15	1413.05	11/10/88	7.85	1412.35
06/16/87	7.11	1413.09	12/16/88	7.91	1412.29
07/14/87	7.01	1413.19			
08/10/87	6.85	1413.35	08/08/89	8.07	1412.13
09/09/87	6.91	1413.29	10/12/89	8.30	1411.90
10/15/87	7.00	1413.20	12/20/89	8.56	1411.64
11/10/87	7.08	1413.12			
12/08/87	7.12	1413.08	04/17/90	8.69	1411.51
			06/13/90	8.71	1411.49
01/19/88	7.17	1413.03	09/07/90	8.99	1411.21
03/30/88	7.20	1413.00	10/31/90	9.09	1411.11

**152-064-16DDD**Lake Clay

LS Elev (msl, ft)=1493.7

SI (ft.)=13-18

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	2.34	1491.36	06/02/88	2.02	1491.68
10/14/86	2.47	1491.23	07/06/88	2.89	1490.81
10/20/86	2.52	1491.18	08/02/88	3.46	1490.24
			09/08/88	4.32	1489.38
01/07/87	2.40	1491.30	10/13/88	4.34	1489.36
03/31/87	0.86	1492.84	11/09/88	4.15	1489.55
05/11/87	1.84	1491.86	12/15/88	4.16	1489.54
06/16/87	2.27	1491.43			
07/14/87	2.23	1491.47	06/15/89	3.20	1490.50
08/10/87	1.70	1492.00	08/08/89	4.98	1488.72
09/08/87	2.06	1491.64	10/12/89	5.20	1488.50
10/15/87	2.09	1491.61	12/20/89	5.34	1488.36
11/10/87	2.12	1491.58			
12/08/87	1.94	1491.76	04/16/90	4.35	1489.35
			06/13/90	3.50	1490.20
01/18/88	2.47	1491.23	09/06/90	5.66	1488.04
03/30/88	1.53	1492.17	10/31/90	5.67	1488.03
05/06/88	1.55	1492.15			

**152-064-17BDD**Till

LS Elev (msl, ft)=1460.4

SI (ft.)=18-23

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	10.93	1449.47	05/06/88	10.86	1449.54
10/14/86	11.14	1449.26	06/02/88	11.09	1449.31
10/22/86	13.22	1447.18	07/08/88	11.07	1449.33
10/23/86	18.30	1442.10	08/04/88	11.31	1449.09
11/06/86	13.62	1446.78	09/09/88	11.73	1448.67
			10/13/88	12.10	1448.30
01/07/87	11.65	1448.75	11/10/88	12.35	1448.05
03/31/87	10.60	1449.80	12/16/88	12.80	1447.60
05/11/87	9.61	1450.79			
06/16/87	9.66	1450.74	06/15/89	11.28	1449.12
07/14/87	10.54	1449.86	08/08/89	12.01	1448.39
08/10/87	9.47	1450.93	10/12/89	12.50	1447.90
09/09/87	10.21	1450.19	12/20/89	13.24	1447.16
10/15/87	10.71	1449.69			
11/10/87	11.24	1449.16	04/17/90	13.95	1446.45
12/08/87	11.47	1448.93	06/13/90	11.92	1448.48
			09/07/90	11.67	1448.73
01/18/88	11.84	1448.56	10/31/90	12.33	1448.07
03/30/88	10.17	1450.23			

**152-064-19ABC**Gravel Sediments

LS Elev (msl, ft)=1600

SI (ft.)=110-115

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	87.32	1512.68	06/02/88	86.52	1513.48
10/14/86	87.33	1512.67	07/08/88	86.66	1513.34
10/22/86	88.07	1511.93	08/03/88	86.56	1513.44
10/23/86	88.12	1511.88	09/09/88	86.63	1513.37
			10/13/88	86.95	1513.05
01/07/87	87.09	1512.91	11/10/88	86.53	1513.47
03/31/87	87.03	1512.97	12/16/88	86.84	1513.16
05/11/87	87.15	1512.85			
06/16/87	86.90	1513.10	06/15/89	86.45	1513.55
07/14/87	86.93	1513.07	08/08/89	86.39	1513.61
08/10/87	86.74	1513.26	10/12/89	86.46	1513.54
09/09/87	86.91	1513.09	12/20/89	86.59	1513.41
10/15/87	86.81	1513.19			
11/10/87	86.74	1513.26	04/17/90	86.59	1513.41
12/08/87	86.79	1513.21	06/13/90	86.64	1513.36
			07/20/90	86.66	1513.34
01/18/88	86.74	1513.26	09/06/90	86.70	1513.30
03/30/88	86.75	1513.25	10/31/90	86.67	1513.33
05/06/88	86.55	1513.45			

**152-064-22AAA**Till

LS Elev (msl, ft)=1479.7

SI (ft.)=43-48

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	16.19	1463.51	03/30/88	14.47	1465.23
10/14/86	15.99	1463.71	05/06/88	14.81	1464.89
10/22/86	15.81	1463.89	06/02/88	14.50	1465.20
10/23/86	16.02	1463.68	07/06/88	14.79	1464.91
10/29/86	16.06	1463.64	08/02/88	15.27	1464.43
10/30/86	15.97	1463.73	09/08/88	15.42	1464.28
			10/13/88	16.16	1463.54
01/07/87	16.38	1463.32	11/09/88	16.22	1463.48
03/31/87	14.42	1465.28	12/15/88	16.37	1463.33
05/11/87	14.32	1465.38			
06/16/87	14.21	1465.49	06/15/89	16.82	1462.88
07/14/87	14.60	1465.10	08/08/89	17.11	1462.59
08/10/87	12.65	1467.05	10/12/89	17.13	1462.57
09/08/87	12.74	1466.96	12/20/89	18.07	1461.63
10/15/87	13.19	1466.51			
11/10/87	13.67	1466.03	04/16/90	18.69	1461.01
12/08/87	13.49	1466.21	06/13/90	18.64	1461.06
			09/06/90	18.87	1460.83
01/18/88	14.24	1465.46	10/31/90	19.25	1460.45

**152-064-26CBC**Lake Clay

LS Elev (msl, ft)=1447.5

SI (ft.)=13-18

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/14/86	13.64	1433.86	05/06/88	12.41	1435.09
10/22/86	13.69	1433.81	06/02/88	13.27	1434.23
10/23/86	13.71	1433.79	07/08/88	14.06	1433.44
10/29/86	13.76	1433.74	08/02/88	14.92	1432.58
10/30/86	13.61	1433.89	09/08/88	15.80	1431.70
			10/13/88	15.72	1431.78
01/07/87	13.64	1433.86	11/09/88	15.59	1431.91
03/31/87	10.78	1436.72	12/15/88	15.57	1431.93
05/11/87	12.25	1435.25			
06/16/87	12.78	1434.72	06/15/89	14.22	1433.28
07/14/87	13.30	1434.20	08/08/89	16.16	1431.34
08/10/87	11.95	1435.55	10/11/89	16.27	1431.23
09/08/87	12.91	1434.59	12/20/89	16.30	1431.20
10/15/87	13.15	1434.35			
11/10/87	13.26	1434.24	04/16/90	15.57	1431.93
12/08/87	13.11	1434.39	06/13/90	14.71	1432.79
			09/06/90	16.97	1430.53
01/18/88	13.55	1433.95	10/31/90	16.84	1430.66
03/30/88	12.55	1434.95			

**152-064-27BAA**

Till

LS Elev (msl, ft)=1440.7

SI (ft.)=8-13

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/14/86	-1.41	1442.11	06/02/88	0.76	1439.94
10/22/86	-0.30	1441.00	07/06/88	1.49	1439.21
10/23/86	0.22	1440.48	08/02/88	2.74	1437.96
10/29/86	0.24	1440.46	09/08/88	3.11	1437.59
10/30/86	0.15	1440.55	10/13/88	2.32	1438.38
			11/09/88	1.99	1438.71
01/07/87	0.24	1440.46	12/15/88	2.16	1438.54
05/11/87	0.66	1440.04			
06/16/87	1.39	1439.31	06/15/89	0.60	1440.10
07/14/87	0.62	1440.08	08/08/89	2.93	1437.77
08/10/87	0.58	1440.12	10/12/89	2.34	1438.36
09/08/87	0.50	1440.20	12/20/89	2.47	1438.23
10/15/87	0.35	1440.35			
11/10/87	0.17	1440.53	04/16/90	1.15	1439.55
12/08/87	-0.26	1440.96	06/13/90	0.79	1439.91
			09/06/90	3.00	1437.70
01/19/88	1.27	1439.43	10/31/90	2.83	1437.87
05/06/88	-0.03	1440.73			

**152-064-27BBB**

Warwick Aquifer

LS Elev (msl, ft)=1452.8

SI (ft.)=57-60

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/15/67	13.33	1439.47			
12/14/67	13.62	1439.18	03/31/87	8.95	1443.85
			05/11/87	8.67	1444.13
01/17/68	13.82	1438.98	06/16/87	8.67	1444.13
02/22/68	13.73	1439.07	07/14/87	9.02	1443.78
03/13/68	13.72	1439.08	08/10/87	8.08	1444.72
04/14/68	13.46	1439.34	09/08/87	8.25	1444.55
05/13/68	12.88	1439.92	10/15/87	8.50	1444.30
06/19/68	12.88	1439.92	11/10/87	8.78	1444.02
07/15/68	13.01	1439.79	12/08/87	8.73	1444.07
08/21/68	13.44	1439.36			
09/17/68	13.13	1439.67	01/18/88	9.29	1443.51
10/08/68	13.24	1439.56	03/30/88	9.13	1443.67
11/14/68	13.25	1439.55	05/06/88	9.01	1443.79
12/10/68	13.20	1439.60	06/02/88	9.11	1443.69
			07/06/88	9.61	1443.19
01/13/69	13.52	1439.28	08/02/88	10.01	1442.79
04/21/69	13.05	1439.75	09/08/88	10.59	1442.21
05/08/69	12.63	1440.17	10/13/88	10.99	1441.81
06/17/69	12.41	1440.39	11/09/88	11.07	1441.73
07/15/69	12.29	1440.51			
08/20/69	12.70	1440.10	06/15/89	10.67	1442.13
09/16/69	12.97	1439.83	08/08/89	11.68	1441.12
11/19/69	13.13	1439.67	10/12/89	12.11	1440.69
			12/20/89	12.45	1440.35
04/14/70	13.09	1439.71			
12/01/70	12.39	1440.41	04/16/90	12.45	1440.35
			06/13/90	12.02	1440.78
07/18/86	8.91	1443.89	09/06/90	12.89	1439.91
07/31/86	8.89	1443.91	10/31/90	13.11	1439.69

**152-064-35DBB**

Till

LS Elev (msl, ft)=1442.1

SI (ft.)=8-13

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	13.96	1428.14	03/30/88	4.12	1437.98
10/03/86	7.03	1435.07	05/06/88	5.05	1437.05
10/14/86	6.81	1435.29	06/02/88	6.23	1435.87
10/22/86	6.78	1435.32	07/06/88	7.43	1434.67
10/23/86	8.37	1433.73	08/02/88	7.71	1434.39
11/06/86	6.45	1435.65	09/08/88	8.11	1433.99
11/07/86	8.15	1433.95	10/13/88	7.77	1434.33
			11/09/88	7.48	1434.62
01/07/87	6.49	1435.61	12/15/88	7.35	1434.75
03/31/87	3.37	1438.73			
05/11/87	5.25	1436.85	06/15/89	6.14	1435.96
06/16/87	6.15	1435.95	08/08/89	7.67	1434.43
07/14/87	6.76	1435.34	10/11/89	7.77	1434.33
08/10/87	5.15	1436.95	12/20/89	7.38	1434.72
09/08/87	5.88	1436.22			
10/15/87	6.21	1435.89	04/16/90	7.14	1434.96
11/10/87	6.50	1435.60	06/13/90	6.42	1435.68
12/08/87	6.29	1435.81	09/06/90	8.05	1434.05
			10/31/90	7.82	1434.28
01/18/88	6.56	1435.54			

**152-065-06AAA1**

Spiritwood Aquifer

LS Elev (msl, ft)=1442.6

SI (ft.)=78-83

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	10.90	1431.70	04/19/89	12.32	1430.28
10/01/87	10.80	1431.80	06/15/89	12.36	1430.24
10/14/87	10.88	1431.72	07/12/89	12.48	1430.12
10/20/87	10.93	1431.67	08/08/89	12.55	1430.05
10/27/87	10.89	1431.71	09/12/89	12.71	1429.89
11/10/87	11.00	1431.60	10/12/89	12.75	1429.85
12/08/87	10.85	1431.75	12/20/89	13.08	1429.52
01/18/88	11.09	1431.51	02/06/90	13.15	1429.45
02/24/88	11.16	1431.44	04/17/90	13.42	1429.18
03/30/88	11.19	1431.41	05/16/90	13.39	1429.21
05/06/88	11.24	1431.36	06/13/90	13.43	1429.17
06/02/88	11.23	1431.37	07/10/90	13.60	1429.00
07/08/88	11.24	1431.36	07/11/90	13.60	1429.00
08/03/88	11.45	1431.15	08/09/90	13.66	1428.94
09/09/88	11.51	1431.09	09/07/90	13.73	1428.87
10/13/88	11.80	1430.80	10/02/90	13.68	1428.92
11/10/88	11.89	1430.71	10/31/90	13.85	1428.75
12/16/88	12.15	1430.45	11/28/90	14.02	1428.58
03/20/89	12.35	1430.25	04/17/91	14.30	1428.30

**152-065-06AAA2**Till

LS Elev (msl,ft)=1443.1

SI (ft.)=16-21

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/28/87	5.68	1437.42	03/20/89	10.43	1432.67
09/29/87	16.45	1426.65	04/19/89	9.58	1433.52
10/01/87	14.24	1428.86	06/15/89	7.09	1436.01
10/14/87	7.19	1435.91	07/12/89	7.54	1435.56
10/20/87	8.28	1434.82	08/08/89	8.10	1435.00
10/27/87	9.11	1433.99	09/12/89	9.06	1434.04
10/28/87	16.20	1426.90	10/12/89	9.21	1433.89
11/10/87	7.96	1435.14	12/20/89	10.74	1432.36
12/08/87	6.76	1436.34			
			02/06/90	11.18	1431.92
01/18/88	7.41	1435.69	04/17/90	12.06	1431.04
02/24/88	7.89	1435.21	05/16/90	10.81	1432.29
03/30/88	8.22	1434.88	06/13/90	9.61	1433.49
05/06/88	7.14	1435.96	07/10/90	7.04	1436.06
06/02/88	6.78	1436.32	07/11/90	7.04	1436.06
07/08/88	7.05	1436.05	08/09/90	7.32	1435.78
08/03/88	6.12	1436.98	09/07/90	8.07	1435.03
09/09/88	7.44	1435.66	10/02/90	8.24	1434.86
10/13/88	8.41	1434.69	10/31/90	9.07	1434.03
11/10/88	8.88	1434.22	11/28/90	9.81	1433.29
12/16/88	9.74	1433.36			
			04/17/91	11.50	1431.60

**152-065-07AAA1**Spiritwood Aquifer

LS Elev (msl,ft)=1453

SI (ft.)=98-103

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	19.83	1433.17	04/19/89	19.98	1433.02
10/01/87	19.76	1433.24	06/15/89	20.43	1432.57
10/14/87	19.84	1433.16	07/12/89	20.68	1432.32
10/20/87	19.86	1433.14	08/08/89	20.85	1432.15
10/27/87	19.84	1433.16	09/12/89	20.95	1432.05
11/10/87	19.85	1433.15	10/12/89	21.01	1431.99
12/08/87	19.78	1433.22	12/20/89	21.14	1431.86
01/18/88	19.86	1433.14	02/06/90	20.99	1432.01
02/25/88	19.75	1433.25	04/17/90	21.00	1432.00
03/29/88	19.70	1433.30	05/16/90	21.06	1431.94
05/05/88	19.75	1433.25	06/13/90	21.19	1431.81
05/06/88	19.75	1433.25	07/10/90	21.34	1431.66
06/02/88	19.91	1433.09	07/11/90	21.34	1431.66
07/08/88	20.02	1432.98	08/09/90	21.52	1431.48
08/03/88	20.14	1432.86	09/07/90	21.63	1431.37
09/09/88	20.36	1432.64	10/02/90	21.56	1431.44
10/13/88	20.47	1432.53	10/31/90	21.59	1431.41
11/10/88	20.53	1432.47	11/28/90	21.69	1431.31
12/16/88	20.57	1432.43			
			04/17/91	21.67	1431.33
03/20/89	20.44	1432.56			

**152-065-07AAA2**Unnamed

LS Elev (msl, ft)=1453

SI (ft.)=33-38

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	19.85	1433.15	04/19/89	20.00	1433.00
10/01/87	19.77	1433.23	06/15/89	20.46	1432.54
10/14/87	19.86	1433.14	07/12/89	20.68	1432.32
10/20/87	19.87	1433.13	08/08/89	20.87	1432.13
10/27/87	19.87	1433.13	09/12/89	20.98	1432.02
11/10/87	19.87	1433.13	10/12/89	21.04	1431.96
12/08/87	19.81	1433.19	12/20/89	21.15	1431.85
01/18/88	19.88	1433.12	02/06/90	21.01	1431.99
02/24/88	19.77	1433.23	04/17/90	21.05	1431.95
03/30/88	19.72	1433.28	05/16/90	21.05	1431.95
05/06/88	19.76	1433.24	06/13/90	21.21	1431.79
06/02/88	19.93	1433.07	07/10/90	21.40	1431.60
07/08/88	20.08	1432.92	07/11/90	21.40	1431.60
08/03/88	20.16	1432.84	08/09/90	21.52	1431.48
09/09/88	20.36	1432.64	09/07/90	21.65	1431.35
10/13/88	20.49	1432.51	10/02/90	21.58	1431.42
11/10/88	20.53	1432.47	10/31/90	21.61	1431.39
12/16/88	20.61	1432.39	11/28/90	21.70	1431.30
03/20/89	20.53	1432.47	04/17/91	21.69	1431.31

**152-065-07CCC**Spiritwood Aquifer

LS Elev (msl, ft)=1495.5

SI (ft.)=127-130

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/20/68	56.52	1438.98	05/11/87	45.42	1450.08
09/11/68	56.45	1439.05	06/16/87	44.85	1450.65
09/17/68	56.58	1438.92	07/14/87	45.09	1450.41
10/08/68	56.73	1438.77	08/10/87	44.64	1450.86
11/14/68	56.72	1438.78	09/09/87	44.84	1450.66
12/10/68	56.54	1438.96	10/15/87	45.10	1450.40
			11/10/87	45.40	1450.10
01/14/69	56.71	1438.79	12/08/87	45.38	1450.12
04/21/69	57.13	1438.37			
05/13/69	56.62	1438.88	01/18/88	46.10	1449.40
06/17/69	56.01	1439.49	03/30/88	46.54	1448.96
07/15/69	55.74	1439.76	05/06/88	46.21	1449.29
08/20/69	55.51	1439.99	06/02/88	46.21	1449.29
09/16/69	55.50	1440.00	07/08/88	46.52	1448.98
11/19/69	55.63	1439.87	08/03/88	46.43	1449.07
			09/09/88	46.97	1448.53
02/18/70	56.20	1439.30	10/13/88	47.54	1447.96
03/23/70	55.85	1439.65	11/10/88	47.81	1447.69
04/14/70	56.05	1439.45	12/16/88	48.47	1447.03
06/23/70	55.02	1440.48			
07/07/70	55.26	1440.24	06/15/89	48.00	1447.50
09/08/70	55.10	1440.40	08/08/89	48.61	1446.89
10/06/70	55.35	1440.15	10/12/89	49.40	1446.10
11/12/70	55.30	1440.20	12/20/89	50.15	1445.35
12/01/70	55.19	1440.31			
			04/17/90	50.85	1444.65
10/16/86	46.91	1448.59	06/13/90	50.48	1445.02
10/22/86	46.91	1448.59	09/07/90	51.11	1444.39
04/01/87	46.60	1448.90	10/31/90	51.34	1444.16

**152-065-11CAB**Till

LS Elev (msl, ft)=1449.7

SI (ft.)=13-18

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/86	6.43	1443.27	03/30/88	6.36	1443.34
10/14/86	6.64	1443.06	05/06/88	4.28	1445.42
10/22/86	6.63	1443.07	07/08/88	8.46	1441.24
10/23/86	6.72	1442.98	08/04/88	9.66	1440.04
10/30/86	6.47	1443.23	09/09/88	11.74	1437.96
11/06/86	6.60	1443.10	10/13/88	11.42	1438.28
			11/10/88	10.74	1438.96
01/08/87	6.44	1443.26	12/16/88	10.44	1439.26
03/31/87	4.00	1445.70			
05/11/87	4.99	1444.71	06/15/89	8.60	1441.10
06/16/87	6.11	1443.59	08/08/89	11.53	1438.17
07/14/87	6.80	1442.90	10/12/89	11.88	1437.82
08/10/87	6.82	1442.88	12/20/89	10.56	1439.14
09/09/87	7.92	1441.78			
10/15/87	7.71	1441.99	04/17/90	9.58	1440.12
11/10/87	7.49	1442.21	06/13/90	9.26	1440.44
12/08/87	7.52	1442.18	09/07/90	12.65	1437.05
			10/31/90	11.57	1438.13
01/18/88	7.17	1442.53			

**152-065-11CAC**Till

LS Elev (msl, ft)=1519.1

SI (ft.)=23-28

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/86	8.42	1510.68	03/30/88	14.39	1504.71
10/14/86	11.97	1507.13	05/06/88	13.40	1505.70
10/22/86	12.09	1507.01	06/02/88	13.46	1505.64
10/23/86	12.96	1506.14	07/08/88	14.18	1504.92
10/30/86	12.07	1507.03	08/04/88	15.19	1503.91
11/06/86	12.33	1506.77	09/09/88	16.35	1502.75
			10/13/88	17.15	1501.95
01/08/87	12.82	1506.28	11/10/88	17.56	1501.54
03/31/87	8.22	1510.88	12/16/88	18.04	1501.06
05/11/87	7.12	1511.98			
06/16/87	8.03	1511.07	06/15/89	16.17	1502.93
07/14/87	10.14	1508.96	08/08/89	17.65	1501.45
08/10/87	9.40	1509.70	10/12/89	18.98	1500.12
09/09/87	11.59	1507.51	12/20/89	19.58	1499.52
10/15/87	12.39	1506.71			
11/10/87	13.15	1505.95	04/17/90	20.33	1498.77
12/08/87	13.48	1505.62	06/13/90	20.45	1498.65
			09/07/90	20.48	1498.62
01/18/88	14.10	1505.00	10/31/90	20.73	1498.37

**152-065-14BBA2**Clay Sediments

LS Elev (msl, ft)=1733

SI (ft.)=205.5-210.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/14/86	133.52	1599.48	09/09/87	196.07	1536.93
10/20/86	133.78	1599.22	10/15/87	196.11	1536.89
10/23/86	159.06	1573.94	11/10/87	196.21	1536.79
10/30/86	193.02	1539.98			
			03/31/88	196.91	1536.09
05/11/87	194.64	1538.36	05/06/88	197.08	1535.92
06/16/87	194.51	1538.49	07/08/88	197.09	1535.91
07/14/87	196.36	1536.64	08/04/88	197.19	1535.81
08/10/87	196.13	1536.87			

**152-065-17BAA**Sand Sediments

LS Elev (msl, ft)=1469.9

SI (ft.)=33-38

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	25.56	1444.34	05/06/88	24.49	1445.41
10/14/86	25.56	1444.34	06/02/88	24.71	1445.19
10/21/86	25.55	1444.35	07/08/88	25.04	1444.86
10/22/86	25.57	1444.33	08/03/88	25.17	1444.73
			09/09/88	25.85	1444.05
01/08/87	25.78	1444.12	10/13/88	26.33	1443.57
04/01/87	24.64	1445.26	11/10/88	26.55	1443.35
05/11/87	23.20	1446.70	12/16/88	26.81	1443.09
06/16/87	23.17	1446.73			
07/14/87	23.48	1446.42	06/15/89	26.44	1443.46
08/10/87	23.15	1446.75	08/08/89	27.22	1442.68
09/09/87	23.58	1446.32	10/12/89	27.96	1441.94
10/15/87	23.88	1446.02	12/20/89	28.46	1441.44
11/10/87	24.18	1445.72			
12/08/87	24.29	1445.61	04/17/90	29.06	1440.84
			06/13/90	28.72	1441.18
01/18/88	24.72	1445.18	09/07/90	29.43	1440.47
03/30/88	24.82	1445.08	10/31/90	29.87	1440.03

**152-065-17BBBB**Gravel Sediments

LS Elev (msl, ft)=1460.8

SI (ft.)=32-37

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/02/87	12.38	1448.42	09/09/88	14.90	1445.90
09/29/87	12.88	1447.92	10/13/88	15.45	1445.35
10/01/87	12.64	1448.16	11/10/88	15.79	1445.01
10/14/87	13.07	1447.73	12/16/88	16.34	1444.46
10/15/87	13.22	1447.58			
10/27/87	13.21	1447.59	06/15/89	15.39	1445.41
11/10/87	13.29	1447.51	08/08/89	16.41	1444.39
12/08/87	13.32	1447.48	10/12/89	17.22	1443.58
			12/20/89	17.99	1442.81
01/18/88	14.11	1446.69			
03/30/88	14.04	1446.76	04/17/90	18.45	1442.35
05/06/88	13.59	1447.21	06/13/90	17.73	1443.07
06/02/88	13.72	1447.08	09/07/90	18.76	1442.04
07/08/88	14.09	1446.71	10/31/90	19.24	1441.56
08/03/88	14.12	1446.68			

**152-065-20BCC**  
**Gravel Sediments**

LS Elev (msl, ft) = 1554.6  
 SI (ft.) = 33-38

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	30.75	1523.85	05/06/88	31.15	1523.45
10/14/86	30.83	1523.77	06/02/88	31.23	1523.37
10/22/86	30.86	1523.74	07/08/88	31.32	1523.28
10/23/86	30.88	1523.72	08/03/88	31.40	1523.20
10/30/86	30.80	1523.80	09/09/88	31.67	1522.93
11/06/86	30.93	1523.67	10/13/88	31.92	1522.68
			11/10/88	32.09	1522.51
03/31/87	30.58	1524.02	12/16/88	32.24	1522.36
05/11/87	29.26	1525.34			
06/16/87	29.28	1525.32	06/15/89	32.12	1522.48
07/14/87	29.58	1525.02	08/08/89	32.32	1522.28
08/10/87	29.65	1524.95	10/12/89	32.68	1521.92
09/09/87	29.98	1524.62	12/20/89	32.92	1521.68
10/15/87	30.20	1524.40			
11/10/87	30.44	1524.16	04/17/90	33.19	1521.41
12/08/87	30.55	1524.05	06/13/90	33.23	1521.37
			09/07/90	33.31	1521.29
01/18/88	30.81	1523.79	10/31/90	33.48	1521.12
03/30/88	31.16	1523.44			

**152-065-22DDD**Lake Clay

LS Elev (msl, ft)=1636.7

SI (ft.)=113-118

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/86	61.18	1575.52	06/02/88	85.60	1551.10
10/14/86	84.16	1552.54	07/08/88	85.46	1551.24
10/22/86	84.38	1552.32	08/03/88	85.49	1551.21
10/23/86	89.18	1547.52	09/09/88	85.50	1551.20
			10/13/88	85.55	1551.15
05/11/87	86.76	1549.94	11/10/88	85.57	1551.13
06/16/87	86.45	1550.25			
07/14/87	86.72	1549.98	06/15/89	85.58	1551.12
08/10/87	86.36	1550.34	08/08/89	85.75	1550.95
09/09/87	86.10	1550.60	10/12/89	85.86	1550.84
10/15/87	86.00	1550.70	12/20/89	85.94	1550.76
11/10/87	85.95	1550.75			
12/08/87	85.88	1550.82	04/17/90	82.87	1553.83
			06/13/90	84.86	1551.84
01/18/88	85.80	1550.90	09/07/90	86.10	1550.60
03/30/88	85.70	1551.00	10/31/90	86.42	1550.28
05/06/88	85.62	1551.08			

**152-065-27DDD**Tokio Aquifer

LS Elev (msl, ft)=1567.2

SI (ft.)=36.5-41.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/05/86	17.32	1549.88	08/03/88	17.19	1550.01
05/11/87	16.24	1550.96	09/09/88	17.39	1549.81
06/16/87	16.47	1550.73	10/13/88	17.47	1549.73
07/14/87	16.70	1550.50	11/10/88	17.49	1549.71
08/10/87	16.34	1550.86	06/15/89	17.44	1549.76
09/09/87	16.52	1550.68	08/08/89	18.11	1549.09
10/15/87	16.56	1550.64	10/12/89	18.32	1548.88
11/10/87	16.60	1550.60	12/20/89	18.47	1548.73
01/18/88	16.86	1550.34	04/17/90	18.65	1548.55
03/30/88	16.64	1550.56	06/13/90	18.54	1548.66
05/06/88	16.57	1550.63	09/07/90	19.18	1548.02
06/02/88	16.66	1550.54	10/31/90	19.23	1547.97
07/08/88	16.88	1550.32			

**152-066-07BBB**

Till

LS Elev (msl, ft)=1485.4

SI (ft.)=48-53

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	30.23	1455.17	06/03/88	29.96	1455.44
10/15/86	30.44	1454.96	07/07/88	29.95	1455.45
10/21/86	30.20	1455.20	08/03/88	30.07	1455.33
			09/05/88	30.15	1455.25
01/07/87	30.24	1455.16	10/11/88	30.36	1455.04
03/31/87	29.84	1455.56	11/08/88	30.48	1454.92
05/12/87	29.38	1456.02	12/14/88	30.42	1454.98
06/17/87	29.47	1455.93			
07/15/87	29.40	1456.00	05/11/89	30.97	1454.43
08/11/87	29.46	1455.94	06/16/89	30.94	1454.46
09/09/87	29.47	1455.93	08/08/89	31.09	1454.31
10/16/87	29.55	1455.85	10/10/89	31.23	1454.17
11/09/87	29.63	1455.77	12/18/89	31.53	1453.87
12/08/87	29.48	1455.92			
			04/16/90	31.91	1453.49
01/18/88	29.72	1455.68	06/14/90	32.04	1453.36
03/30/88	29.86	1455.54	09/05/90	32.21	1453.19
05/05/88	29.94	1455.46	10/30/90	32.38	1453.02

152-066-21AAD

Spiritwood Aquifer

LS Elev (msl,ft)=1484.8

SI (ft.)=140-145

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/02/67	46.69	1438.11	09/05/68	46.59	1438.21
11/14/67	46.79	1438.01	09/10/68	46.62	1438.18
11/20/67	46.80	1438.00	09/15/68	46.63	1438.17
11/25/67	46.78	1438.02	09/20/68	46.66	1438.14
11/30/67	46.80	1438.00	09/30/68	46.67	1438.13
12/05/67	46.81	1437.99	09/30/68	46.67	1438.13
12/10/67	46.83	1437.97	10/05/68	46.68	1438.12
12/15/67	46.84	1437.96	10/10/68	46.68	1438.12
12/20/67	46.83	1437.97	10/15/68	46.69	1438.11
12/25/67	46.82	1437.98	10/20/68	46.70	1438.10
12/31/67	46.83	1437.97	10/25/68	46.69	1438.11
			10/31/68	46.70	1438.10
01/05/68	46.82	1437.98	11/05/68	46.69	1438.11
01/10/68	46.83	1437.97	11/10/68	46.69	1438.11
01/15/68	46.81	1437.99	11/15/68	46.69	1438.11
01/20/68	46.82	1437.98	11/20/68	46.70	1438.10
01/25/68	46.81	1437.99	11/25/68	46.70	1438.10
01/31/68	46.80	1438.00	11/30/68	46.67	1438.13
02/05/68	46.83	1437.97	12/05/68	46.67	1438.13
02/10/68	46.79	1438.01	12/10/68	46.66	1438.14
02/15/68	46.77	1438.03	12/15/68	46.68	1438.12
02/20/68	46.77	1438.03	12/20/68	46.68	1438.12
02/25/68	46.78	1438.02	12/25/68	46.68	1438.12
02/29/68	46.79	1438.01	12/31/68	46.67	1438.13
03/05/68	46.76	1438.04			
03/10/68	46.77	1438.03	01/05/69	46.66	1438.14
03/15/68	46.73	1438.07	01/10/69	46.69	1438.11
03/20/68	46.74	1438.06	01/15/69	46.69	1438.11
03/25/68	46.67	1438.13	01/20/69	46.72	1438.08
03/31/68	46.61	1438.19	01/25/69	46.71	1438.09
04/05/68	46.57	1438.23	01/31/69	46.67	1438.13
04/10/68	46.52	1438.28	02/05/69	46.67	1438.13
04/15/68	46.50	1438.30	02/10/69	46.70	1438.10
04/20/68	46.47	1438.33	02/15/69	46.67	1438.13
04/25/68	46.43	1438.37	02/20/69	46.67	1438.13
04/30/68	46.38	1438.42	02/25/69	46.65	1438.15
05/05/68	46.36	1438.44	02/28/69	46.66	1438.14
05/10/68	46.33	1438.47	03/05/69	46.65	1438.15
05/15/68	46.31	1438.49	03/10/69	46.65	1438.15
05/20/68	46.29	1438.51	03/15/69	46.65	1438.15
05/25/68	46.22	1438.58	03/20/69	46.64	1438.16
05/31/68	46.18	1438.62	03/25/69	46.64	1438.16
06/05/68	46.18	1438.62	03/31/69	46.62	1438.18
06/10/68	46.17	1438.63	04/05/69	46.61	1438.19
06/15/68	46.18	1438.62	04/10/69	46.55	1438.25
06/20/68	46.14	1438.66	04/15/69	46.50	1438.30
06/25/68	46.18	1438.62	04/20/69	46.34	1438.46
06/30/68	46.19	1438.61	04/25/69	46.09	1438.71
07/05/68	46.23	1438.57	04/30/69	46.05	1438.75
07/10/68	46.27	1438.53	05/05/69	45.98	1438.82
07/15/68	46.34	1438.46	05/10/69	45.94	1438.86
07/20/68	46.38	1438.42	05/15/69	45.90	1438.90
07/25/68	46.33	1438.47	05/20/69	45.87	1438.93
07/31/68	46.37	1438.43	05/25/69	45.83	1438.97
08/05/68	46.46	1438.34	05/31/69	45.80	1439.00
08/10/68	46.48	1438.32	06/05/69	45.79	1439.01
08/15/68	46.52	1438.28	06/10/69	45.77	1439.03
08/20/68	46.53	1438.27	06/15/69	45.80	1439.00
08/25/68	46.56	1438.24	06/20/69	45.83	1438.97
08/31/68	46.58	1438.22	06/25/69	45.80	1439.00

152-066-21AAD

(Continued)

Spiritwood Aquifer

LS Elev (msl, ft) = 1484.8

SI (ft.) = 140-145

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/30/69	45.82	1438.98	04/25/70	45.94	1438.86
07/05/69	45.79	1439.01	04/30/70	45.90	1438.90
07/10/69	45.76	1439.04	05/05/70	45.86	1438.94
07/15/69	45.80	1439.00	05/10/70	45.79	1439.01
07/20/69	45.83	1438.97	05/15/70	45.77	1439.03
07/25/69	45.80	1439.00	05/20/70	45.71	1439.09
07/31/69	45.83	1438.97	05/25/70	45.67	1439.13
08/05/69	45.84	1438.96	05/31/70	45.65	1439.15
08/10/69	45.89	1438.91	06/05/70	45.62	1439.18
08/15/69	45.95	1438.85	06/10/70	45.60	1439.20
08/20/69	46.02	1438.78	06/15/70	45.61	1439.19
08/25/69	46.07	1438.73	06/25/70	45.60	1439.20
08/31/69	46.15	1438.65	06/30/70	45.63	1439.17
09/05/69	46.18	1438.62	07/05/70	45.66	1439.14
09/10/69	46.23	1438.57	07/10/70	45.74	1439.06
09/15/69	46.26	1438.54	07/15/70	45.78	1439.02
09/20/69	46.29	1438.51	07/20/70	45.82	1438.98
09/25/69	46.31	1438.49	07/25/70	45.86	1438.94
09/30/69	46.33	1438.47	07/31/70	45.90	1438.90
10/05/69	46.35	1438.45	08/05/70	45.95	1438.85
10/10/69	46.36	1438.44	08/10/70	45.99	1438.81
10/15/69	46.33	1438.47	08/15/70	46.03	1438.77
10/20/69	46.33	1438.47	08/20/70	46.08	1438.72
10/25/69	46.35	1438.45	08/25/70	46.11	1438.69
10/31/69	46.37	1438.43	08/31/70	46.15	1438.65
11/05/69	46.35	1438.45	09/05/70	46.17	1438.63
11/10/69	46.35	1438.45	09/10/70	46.22	1438.58
11/15/69	46.34	1438.46	09/15/70	46.23	1438.57
11/20/69	46.35	1438.45	09/20/70	46.22	1438.58
11/25/69	46.35	1438.45	09/25/70	46.25	1438.55
11/30/69	46.32	1438.48	09/30/70	46.26	1438.54
12/05/69	46.32	1438.48	10/05/70	46.25	1438.55
12/10/69	46.31	1438.49	10/10/70	46.27	1438.53
12/15/69	46.33	1438.47	10/15/70	46.27	1438.53
12/20/69	46.31	1438.49	10/20/70	46.26	1438.54
12/25/69	46.29	1438.51	10/25/70	46.26	1438.54
12/31/69	46.28	1438.52	10/31/70	46.25	1438.55
			11/05/70	46.24	1438.56
01/05/70	46.28	1438.52	11/15/70	46.28	1438.52
01/10/70	46.27	1438.53	11/20/70	46.27	1438.53
01/15/70	46.27	1438.53	11/25/70	46.26	1438.54
01/20/70	46.28	1438.52	11/30/70	46.29	1438.51
01/25/70	46.25	1438.55			
01/31/70	46.25	1438.55	08/20/86	41.72	1443.08
02/05/70	46.28	1438.52			
02/10/70	46.27	1438.53	01/08/87	41.83	1442.97
02/15/70	46.27	1438.53	04/01/87	41.18	1443.62
02/20/70	46.28	1438.52	05/11/87	40.65	1444.15
02/25/70	46.27	1438.53	06/16/87	40.62	1444.18
02/28/70	46.26	1438.54	07/14/87	40.71	1444.09
03/05/70	46.23	1438.57	08/10/87	40.66	1444.14
03/10/70	46.25	1438.55	09/09/87	40.81	1443.99
03/15/70	46.23	1438.57	10/15/87	40.86	1443.94
03/20/70	46.22	1438.58	11/10/87	40.93	1443.87
03/25/70	46.23	1438.57	12/08/87	40.86	1443.94
03/31/70	46.20	1438.60			
04/05/70	46.17	1438.63	01/18/88	40.90	1443.90
04/10/70	46.14	1438.66	02/24/88	40.79	1444.01
04/15/70	46.07	1438.73	03/30/88	40.72	1444.08
04/20/70	45.97	1438.83	05/06/88	40.58	1444.22

**152-066-21AAD****(Continued)****Spiritwood Aquifer**

LS Elev (msl, ft)=1484.8

SI (ft.)=140-145

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/02/88	40.73	1444.07	12/20/89	42.41	1442.39
07/08/88	41.06	1443.74	02/06/90	42.70	1442.10
08/03/88	41.16	1443.64	04/17/90	42.66	1442.14
09/09/88	41.51	1443.29	05/16/90	42.60	1442.20
10/13/88	41.71	1443.09	06/13/90	42.35	1442.45
11/10/88	41.80	1443.00	07/10/90	42.51	1442.29
12/16/88	41.83	1442.97	07/11/90	42.51	1442.29
			08/09/90	42.68	1442.12
03/20/89	42.00	1442.80	09/07/90	42.92	1441.88
04/19/89	41.42	1443.38	10/02/90	43.02	1441.78
06/15/89	41.41	1443.39	10/31/90	43.16	1441.64
07/12/89	41.66	1443.14	11/28/90	44.65	1440.15
08/08/89	41.89	1442.91			
09/12/89	42.10	1442.70	04/17/91	43.39	1441.41
10/12/89	42.22	1442.58			

**152-066-21AAD2****Till**LS Elev (msl, ft)=1484.4  
SI (ft.)=58-63

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	41.38	1443.02	12/14/88	41.54	1442.86
10/14/86	41.43	1442.97	12/16/88	41.54	1442.86
10/21/86	41.44	1442.96			
			03/20/89	41.52	1442.88
01/08/87	41.29	1443.11	04/19/89	41.18	1443.22
04/01/87	40.95	1443.45	06/15/89	41.17	1443.23
05/11/87	40.39	1444.01	07/12/89	41.40	1443.00
06/16/87	40.33	1444.07	08/08/89	41.59	1442.81
07/14/87	40.46	1443.94	09/12/89	41.82	1442.58
08/10/87	40.39	1444.01	10/12/89	41.95	1442.45
09/09/87	40.53	1443.87	12/20/89	42.13	1442.27
10/15/87	40.50	1443.90			
11/10/87	40.66	1443.74	02/06/90	42.22	1442.18
12/08/87	40.59	1443.81	04/17/90	42.22	1442.18
			05/16/90	42.22	1442.18
01/18/88	40.65	1443.75	06/13/90	42.23	1442.17
02/24/88	40.57	1443.83	07/10/90	44.36	1440.04
03/29/88	40.47	1443.93	07/11/90	42.36	1442.04
05/06/88	40.35	1444.05	08/09/90	42.50	1441.90
06/02/88	40.48	1443.92	09/07/90	42.72	1441.68
07/08/88	40.81	1443.59	10/02/90	42.84	1441.56
08/03/88	40.89	1443.51	10/31/90	43.00	1441.40
09/09/88	41.22	1443.18	11/28/90	43.13	1441.27
10/13/88	41.44	1442.96			
11/10/88	41.52	1442.88	04/17/91	43.24	1441.16

**152-066-24CAB****Spiritwood Aquifer**

LS Elev (msl,ft)=1582.24

SI (ft.)=97-103

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/19/69	53.98	1528.26	03/30/88	50.95	1531.29
04/14/70	53.29	1528.95	05/06/88	50.96	1531.28
07/06/70	53.74	1528.50	06/02/88	50.96	1531.28
12/01/70	53.85	1528.39	07/08/88	51.06	1531.18
			08/03/88	51.17	1531.07
			09/09/88	51.35	1530.89
10/16/86	51.86	1530.38	10/13/88	51.55	1530.69
10/22/86	51.89	1530.35	11/10/88	51.64	1530.60
			12/16/88	51.82	1530.42
04/01/87	51.86	1530.38			
05/11/87	51.12	1531.12	06/15/89	52.22	1530.02
06/16/87	50.71	1531.53	08/08/89	52.36	1529.88
07/14/87	50.65	1531.59	10/12/89	52.60	1529.64
08/10/87	50.57	1531.67	12/20/89	52.86	1529.38
09/09/87	50.58	1531.66			
10/15/87	50.61	1531.63	04/17/90	53.20	1529.04
11/10/87	50.66	1531.58	06/13/90	53.31	1528.93
12/08/87	50.60	1531.64	09/07/90	53.60	1528.64
			10/31/90	53.74	1528.50
01/18/88	50.72	1531.52			

**152-066-27DDD****Till**

LS Elev (msl,ft)=1543.4

SI (ft.)=18-23

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	7.80	1535.60	06/02/88	7.65	1535.75
10/14/86	7.66	1535.74	07/08/88	8.28	1535.12
10/20/86	7.64	1535.76	08/03/88	8.74	1534.66
			09/09/88	10.19	1533.21
01/08/87	7.59	1535.81	10/13/88	11.38	1532.02
04/01/87	4.50	1538.90	11/10/88	12.05	1531.35
05/11/87	4.62	1538.78	12/16/88	12.77	1530.63
06/16/87	4.69	1538.71			
07/14/87	5.75	1537.65	06/15/89	11.32	1532.08
08/10/87	5.67	1537.73	08/08/89	12.42	1530.98
09/09/87	6.79	1536.61	10/12/89	13.38	1530.02
10/15/87	7.41	1535.99	12/20/89	14.15	1529.25
11/10/87	8.03	1535.37			
12/08/87	8.13	1535.27	04/17/90	14.65	1528.75
			06/13/90	13.74	1529.66
01/18/88	8.72	1534.68	09/07/90	14.17	1529.23
03/30/88	7.92	1535.48	10/31/90	14.87	1528.53
05/06/88	7.52	1535.88			

**152-067-12CCC**Till

LS Elev (msl, ft)=1511.5

SI (ft.)=15-20

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
<hr/>					
09/16/86	6.97	1504.53	05/05/88	3.87	1507.63
10/15/86	7.90	1503.60	06/03/88	4.59	1506.91
10/22/86	8.16	1503.34	07/07/88	6.37	1505.13
10/23/86	8.85	1502.65	08/03/88	8.00	1503.50
10/28/86	8.57	1502.93	09/05/88	10.37	1501.13
10/29/86	9.02	1502.48	10/10/88	10.82	1500.68
			11/08/88	13.89	1497.61
05/12/87	2.79	1508.71			
06/17/87	4.31	1507.19	05/11/89	8.58	1502.92
07/15/87	5.21	1506.29	06/16/89	6.08	1505.42
08/11/87	4.96	1506.54	08/08/89	8.04	1503.46
09/09/87	6.18	1505.32	10/10/89	12.23	1499.27
10/16/87	7.29	1504.21	12/18/89	15.41	1496.09
11/09/87	8.42	1503.08			
12/08/87	8.37	1503.13	06/14/90	-1.37	1512.87
			09/05/90	15.62	1495.88
03/30/88	6.17	1505.33			

**152-067-14CCB**Till

LS Elev (msl, ft)=1561.1

SI (ft.)=10-15

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
<hr/>					
09/16/86	6.11	1554.99	05/05/88	5.82	1555.28
10/15/86	4.28	1556.82	06/03/88	6.32	1554.78
10/21/86	4.63	1556.47	07/07/88	6.95	1554.15
10/23/86	4.85	1556.25	08/03/88	7.80	1553.30
10/28/86	4.99	1556.11	09/05/88	9.00	1552.10
10/29/86	5.06	1556.04	10/11/88	10.08	1551.02
			11/08/88	10.46	1550.64
01/07/87	5.30	1555.80	12/14/88	10.48	1550.62
03/31/87	0.45	1560.65			
05/12/87	3.65	1557.45	05/11/89	6.79	1554.31
06/17/87	4.52	1556.58	06/16/89	7.29	1553.81
07/15/87	2.45	1558.65	08/09/89	8.87	1552.23
08/11/87	3.53	1557.57	10/10/89	9.31	1551.79
09/09/87	4.01	1557.09	12/18/89	10.50	1550.60
10/16/87	4.82	1556.28			
11/09/87	5.65	1555.45	04/16/90	11.88	1549.22
12/08/87	5.79	1555.31	06/14/90	6.37	1554.73
			09/05/90	7.92	1553.18
01/18/88	7.60	1553.50	10/30/90	9.51	1551.59
03/30/88	5.01	1556.09			

**152-067-31CCC**  
**Maddock Aquifer**

LS Elev (msl, ft) = 1534.9  
ST (ft.) = 22-24

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/11/67	6.83	1528.07	04/01/87	2.43	1532.47
11/14/67	6.67	1528.23	05/11/87	4.32	1530.58
12/13/67	6.84	1528.06	06/16/87	5.16	1529.74
01/16/68	7.10	1527.80	07/14/87	5.07	1529.83
02/22/68	7.25	1527.65	08/10/87	5.21	1529.69
03/13/68	6.56	1528.34	09/08/87	5.47	1529.43
04/11/68	6.07	1528.83	10/14/87	5.50	1529.40
05/13/68	4.94	1529.96	11/09/87	5.63	1529.27
06/19/68	5.05	1529.85	12/07/87	5.58	1529.32
07/15/68	5.96	1528.94	01/18/88	6.39	1528.51
08/20/68	6.67	1528.23	03/30/88	5.42	1529.48
09/17/68	6.44	1528.46	05/06/88	4.91	1529.99
10/07/68	6.58	1528.32	06/01/88	5.31	1529.59
11/13/68	6.57	1528.33	07/06/88	6.60	1528.30
12/10/68	6.55	1528.35	08/02/88	7.17	1527.73
01/13/69	6.94	1527.96	09/08/88	7.44	1527.46
04/23/69	2.75	1532.15	10/12/88	7.37	1527.53
05/15/69	3.84	1531.06	11/09/88	7.28	1527.62
06/17/69	5.07	1529.83	12/14/88	7.23	1527.67
08/20/69	5.42	1529.48	06/14/89	6.12	1528.78
09/16/69	5.87	1529.03	08/08/89	7.30	1527.60
11/19/69	5.98	1528.92	10/11/89	7.42	1527.48
			12/20/89	7.41	1527.49
04/15/70	4.61	1530.29	04/16/90	7.23	1527.67
11/30/70	4.99	1529.91	06/13/90	6.68	1528.22
10/16/86	5.17	1529.73	09/06/90	7.49	1527.41
01/08/87	5.20	1529.70	10/30/90	7.41	1527.49

**153-062-07CCCB1**Unnamed

LS Elev (msl,ft)=1472.78

SI (ft.)=15.5-20.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
01/19/88	7.42	1465.36	08/08/89	9.36	1463.42
03/31/88	8.23	1464.55	12/20/89	13.26	1459.52
05/06/88	6.04	1466.74			
06/04/88	5.62	1467.16	04/17/90	15.35	1457.43
07/08/88	6.63	1466.15	06/13/90	12.97	1459.81
08/04/88	7.65	1465.13	09/06/90	10.44	1462.34
09/09/88	9.03	1463.75	10/31/90	12.00	1460.78
10/13/88	10.47	1462.31			
11/10/88	10.95	1461.83			

**153-062-07CCCB2**Unnamed

LS Elev (msl,ft)=1472.51

SI (ft.)=30-35

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
01/19/88	6.38	1466.13	08/08/89	9.93	1462.58
03/31/88	7.56	1464.95	12/20/89	11.31	1461.20
05/06/88	7.47	1465.04			
06/04/88	7.04	1465.47	04/17/90	12.78	1459.73
07/08/88	7.23	1465.28	06/13/90	12.07	1460.44
08/04/88	7.89	1464.62	09/06/90	11.30	1461.21
09/09/88	8.67	1463.84	10/31/90	11.37	1461.14
10/13/88	9.20	1463.31			
11/10/88	9.40	1463.11			

**153-062-18DDD**Unnamed

LS Elev (msl,ft)=1470.74

SI (ft.)=20-25

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
01/19/88	13.45	1457.29	08/08/89	16.16	1454.58
03/31/88	14.69	1456.05	12/20/89	17.73	1453.01
05/06/88	14.47	1456.27			
06/04/88	14.23	1456.51	04/17/90	18.90	1451.84
07/08/88	14.03	1456.71	06/13/90	18.72	1452.02
08/04/88	14.56	1456.18	09/06/90	18.57	1452.17
09/09/88	14.94	1455.80	10/31/90	18.74	1452.00
10/13/88	15.56	1455.18			
11/10/88	15.89	1454.85			

**153-062-19CCD1**Unnamed

LS Elev (msl,ft)=1458.33

SI (ft.)=11.8-16.8

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
01/19/88	11.92	1446.41	08/08/89	14.15	1444.18
03/31/88	11.34	1446.99	12/20/89	15.36	1442.97
05/06/88	10.61	1447.72			
06/04/88	10.42	1447.91	04/17/90	16.05	1442.28
07/08/88	11.60	1446.73	06/13/90	14.66	1443.67
08/04/88	12.18	1446.15	09/06/90	15.45	1442.88
09/09/88	12.84	1445.49	10/31/90	15.86	1442.47
10/13/88	13.22	1445.11			
11/10/88	13.40	1444.93			

**153-062-19CDD**Unnamed

LS Elev (msl,ft)=1458.45

SI (ft.)=29-34

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
01/19/88	12.04	1446.41			
03/31/88	11.59	1446.86	08/08/89	14.29	1444.16
05/06/88	10.93	1447.52	12/20/89	15.50	1442.95
06/04/88	10.71	1447.74			
07/08/88	11.67	1446.78	04/17/90	16.19	1442.26
08/04/88	11.90	1446.55	06/13/90	14.86	1443.59
09/09/88	12.95	1445.50	09/06/90	15.60	1442.85
10/13/88	13.35	1445.10	10/31/90	16.00	1442.45
11/10/88	13.54	1444.91			

**153-062-29CCC**Unnamed

LS Elev (msl,ft)=1485.3

SI (ft.)=58-61

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/27/74	27.84	1457.46	03/31/88	29.64	1455.66
10/31/74	27.62	1457.68	05/06/88	29.69	1455.61
11/27/74	27.76	1457.54	06/04/88	29.77	1455.53
12/31/74	28.14	1457.16	07/08/88	29.79	1455.51
			08/04/88	31.66	1453.64
07/18/86	30.76	1454.54	09/09/88	32.29	1453.01
07/31/86	30.53	1454.77	10/13/88	32.28	1453.02
			11/10/88	32.27	1453.03
04/01/87	30.83	1454.47	12/15/88	32.29	1453.01
05/11/87	30.99	1454.31			
06/16/87	29.98	1455.32	06/15/89	32.47	1452.83
07/14/87	32.08	1453.22	08/08/89	32.49	1452.81
08/10/87	29.92	1455.38	10/12/89	32.56	1452.74
09/09/87	29.70	1455.60	12/20/89	32.59	1452.71
10/15/87	29.55	1455.75			
11/10/87	29.43	1455.87	04/16/90	32.73	1452.57
12/08/87	29.46	1455.84	06/13/90	32.79	1452.51
			09/06/90	32.87	1452.43
01/19/88	29.51	1455.79	10/31/90	32.93	1452.37

**153-063-09CDD**Unnamed

LS Elev (msl,ft)=1472

SI (ft.)=97-103

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	18.67	1453.33	03/31/88	17.23	1454.77
10/17/73	18.23	1453.77	05/06/88	17.27	1454.73
11/19/73	18.04	1453.96	06/02/88	17.25	1454.75
			07/08/88	17.62	1454.38
01/07/74	17.92	1454.08	08/03/88	18.00	1454.00
02/13/74	17.97	1454.03	09/09/88	18.42	1453.58
03/28/74	18.04	1453.96	10/13/88	18.69	1453.31
05/07/74	17.76	1454.24	11/10/88	18.75	1453.25
06/17/74	16.74	1455.26	12/15/88	18.81	1453.19
07/22/74	16.65	1455.35			
08/16/74	16.80	1455.20	08/08/89	19.36	1452.64
09/23/74	16.97	1455.03	10/12/89	19.56	1452.44
10/29/74	16.97	1455.03	12/20/89	19.72	1452.28
11/27/74	16.92	1455.08			
12/30/74	16.98	1455.02	04/17/90	19.86	1452.14
			06/13/90	19.79	1452.21
12/08/87	16.89	1455.11	09/06/90	20.33	1451.67
			10/31/90	20.47	1451.53
01/19/88	17.03	1454.97			

**153-063-09DDD1**Unnamed

LS Elev (msl, ft)=1461.07

SI (ft.)=35-40

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
01/19/88	5.66.	1455.41			
03/31/88	4.57	1456.50	08/08/89	9.48	1451.59
05/06/88	4.41	1456.66	10/12/89	10.15	1450.92
06/02/88	4.16	1456.91	12/20/89	11.20	1449.87
07/08/88	5.96	1455.11			
08/03/88	7.62	1453.45	04/17/90	9.60	1451.47
09/09/88	9.60	1451.47	06/13/90	7.14	1453.93
10/13/88	10.74	1450.33	09/06/90	10.24	1450.83
11/10/88	10.87	1450.20	10/31/90	12.03	1449.04

**153-063-09DDD2**Unnamed

LS Elev (msl, ft)=1458.44

SI (ft.)=35-40

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
01/19/88	3.44	1455.00			
03/31/88	4.55	1453.89	08/08/89	7.36	1451.08
05/06/88	4.58	1453.86	10/12/89	8.15	1450.29
06/02/88	4.57	1453.87	12/20/89	8.46	1449.98
07/08/88	4.98	1453.46			
08/03/88	5.44	1453.00	04/17/90	9.78	1448.66
09/09/88	6.39	1452.05	06/13/90	8.55	1449.89
10/13/88	7.04	1451.40	09/06/90	8.25	1450.19
11/10/88	7.34	1451.10	10/31/90	8.94	1449.50

**153-063-13BBB**Till

LS Elev (msl, ft)=1489.8

SI (ft.)=23-28

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	9.69	1480.11	03/31/88	11.08	1478.72
10/15/86	9.83	1479.97	05/06/88	10.62	1479.18
10/21/86	9.71	1480.09	06/04/88	10.91	1478.89
10/22/86	9.90	1479.90	07/08/88	11.37	1478.43
10/29/86	10.09	1479.71	08/04/88	11.81	1477.99
10/30/86	9.81	1479.99	09/09/88	12.24	1477.56
			10/13/88	12.65	1477.15
01/07/87	10.48	1479.32	11/10/88	12.79	1477.01
04/01/87	9.49	1480.31	12/15/88	12.93	1476.87
05/11/87	8.12	1481.68			
06/16/87	8.19	1481.61	06/15/89	11.26	1478.54
07/14/87	9.03	1480.77	08/08/89	12.01	1477.79
08/10/87	8.58	1481.22	10/12/89	12.98	1476.82
09/09/87	9.35	1480.45	12/20/89	13.73	1476.07
10/15/87	9.78	1480.02			
11/10/87	10.20	1479.60	04/17/90	14.20	1475.60
12/08/87	10.44	1479.36	06/13/90	13.27	1476.53
			09/06/90	13.25	1476.55
01/19/88	11.04	1478.76	10/31/90	13.62	1476.18

**153-063-13DDC**Unnamed

LS Elev (msl, ft.)=1484.75

SI (ft.)=15-20

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
01/19/88	7.79	1476.96	08/08/89	8.86	1475.89
03/31/88	3.08	1481.67	10/12/89	10.14	1474.61
05/06/88	5.36	1479.39	12/20/89	10.45	1474.30
06/03/88	5.66	1479.09			
07/08/88	7.70	1477.05	04/17/90	6.62	1478.13
08/04/88	8.61	1476.14	06/13/90	5.68	1479.07
10/13/88	9.87	1474.88	09/06/90	9.03	1475.72
11/10/88	9.98	1474.77	10/31/90	9.80	1474.95

**153-063-14CCC**Till

LS Elev (msl, ft.)=1484.3

SI (ft.)=14-19

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	4.80	1479.50	03/31/88	4.83	1479.47
10/14/86	4.68	1479.62	05/06/88	5.04	1479.26
10/21/86	4.75	1479.55	06/02/88	5.14	1479.16
10/22/86	4.79	1479.51	07/08/88	7.29	1477.01
10/29/86	4.92	1479.38	08/03/88	8.69	1475.61
10/30/86	4.87	1479.43	09/09/88	10.06	1474.24
			10/13/88	10.78	1473.52
01/07/87	5.48	1478.82	11/10/88	11.02	1473.28
04/01/87	-0.23	1484.53	12/15/88	11.26	1473.04
05/11/87	3.29	1481.01			
06/16/87	3.59	1480.71	06/15/89	6.75	1477.55
07/14/87	4.14	1480.16	08/08/89	9.35	1474.95
08/10/87	3.93	1480.37	10/12/89	11.01	1473.29
09/09/87	4.28	1480.02	12/20/89	11.35	1472.95
10/15/87	5.45	1478.85			
11/10/87	6.54	1477.76	04/16/90	7.17	1477.13
12/08/87	6.75	1477.55	06/13/90	7.80	1476.50
			09/06/90	9.84	1474.46
01/19/88	7.43	1476.87	10/31/90	10.94	1473.36

**153-063-21DDD**Till

LS Elev (msl, ft.)=1456.1

SI (ft.)=13-18

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	6.87	1449.23	03/31/88	6.16	1449.94
10/14/86	6.41	1449.69	05/06/88	6.46	1449.64
10/21/86	6.43	1449.67	06/02/88	6.75	1449.35
10/22/86	6.51	1449.59	07/08/88	7.67	1448.43
10/29/86	6.62	1449.48	08/03/88	9.02	1447.08
10/30/86	6.56	1449.54	09/09/88	10.58	1445.52
			10/13/88	10.97	1445.13
01/07/87	5.96	1450.14	11/10/88	11.02	1445.08
04/01/87	3.93	1452.17	12/15/88	10.95	1445.15
05/11/87	5.07	1451.03			
06/16/87	5.67	1450.43	06/15/89	8.77	1447.33
07/14/87	5.20	1450.90	08/08/89	11.11	1444.99
08/10/87	5.08	1451.02	10/12/89	11.80	1444.30
09/09/87	5.79	1450.31	12/20/89	11.59	1444.51
10/15/87	6.37	1449.73			
11/10/87	6.93	1449.17	04/16/90	11.02	1445.08
12/08/87	6.96	1449.14	06/13/90	10.05	1446.05
			09/06/90	9.39	1446.71
01/19/88	7.33	1448.77	10/31/90	9.75	1446.35

**153-063-29ADD****Spiritwood Aquifer**

LS Elev (msl, ft)=1448

SI (ft.)=137-143

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/17/79	19.93	1428.07	04/28/85	16.60	1431.40
09/20/79	17.26	1430.74	07/28/85	16.14	1431.86
12/18/79	17.27	1430.73	10/31/85	15.51	1432.49
04/08/80	17.50	1430.50	04/02/86	15.37	1432.63
07/01/80	17.50	1430.50	06/02/86	14.17	1433.83
08/28/80	17.68	1430.32	07/31/86	14.50	1433.50
09/24/80	17.30	1430.70	11/01/86	13.43	1434.57
12/23/80	17.10	1430.90			
04/10/81	17.17	1430.83	04/29/87	13.79	1434.21
06/29/81	16.08	1431.92	07/02/87	13.78	1434.22
09/24/81	17.00	1431.00	08/30/87	13.89	1434.11
12/29/81	17.05	1430.95	10/30/87	14.31	1433.69
04/15/82	17.07	1430.93	03/30/88	14.58	1433.42
05/27/82	16.34	1431.66	05/30/88	14.72	1433.28
08/02/82	15.08	1432.92	08/30/88	16.07	1431.93
09/30/82	15.65	1432.35	10/29/88	16.57	1431.43
12/01/82	14.86	1433.14	04/26/89	16.78	1431.22
04/06/83	15.03	1432.97	06/27/89	16.81	1431.19
06/04/83	14.39	1433.61	08/31/89	17.67	1430.33
09/01/83	15.03	1432.97	10/31/89	18.02	1429.98
11/01/83	15.05	1432.95	04/03/90	18.33	1429.67
04/04/84	15.37	1432.63	06/01/90	18.54	1429.46
06/01/84	14.83	1433.17	08/31/90	18.80	1429.20
08/31/84	16.07	1431.93	10/29/90	19.23	1428.77
10/31/84	16.36	1431.64			

LS Elev (msl, ft)=1445.6

SI (ft.)=137-143

**153-063-30CBC****Spiritwood Aquifer**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/23/70	21.85	1423.75	10/13/88	15.74	1429.86
07/06/70	21.87	1423.73	11/09/88	15.65	1429.95
09/08/70	21.94	1423.66	12/15/88	15.72	1429.88
11/12/70	22.18	1423.42	03/20/89	15.91	1429.69
12/01/70	22.07	1423.53	04/20/89	15.71	1429.89
07/18/86	13.87	1431.73	06/15/89	15.78	1429.82
07/30/86	13.83	1431.77	07/12/89	16.24	1429.36
03/31/87	13.72	1431.88	08/08/89	16.70	1428.90
05/11/87	13.06	1432.54	09/12/89	16.82	1428.78
06/16/87	13.06	1432.54	10/12/89	16.93	1428.67
07/14/87	13.23	1432.37	12/20/89	17.17	1428.43
08/10/87	13.19	1432.41	02/06/90	17.25	1428.35
09/09/87	13.35	1432.25	04/16/90	17.39	1428.21
10/15/87	13.40	1432.20	05/16/90	17.41	1428.19
11/10/87	13.48	1432.12	06/13/90	17.32	1428.28
12/08/87	13.44	1432.16	07/10/90	17.30	1428.30
01/19/88	13.57	1432.03	07/11/90	17.30	1428.30
03/31/88	13.68	1431.92	08/09/90	17.68	1427.92
05/06/88	13.73	1431.87	09/07/90	17.98	1427.62
06/02/88	13.87	1431.73	10/02/90	18.05	1427.55
07/08/88	14.35	1431.25	10/31/90	18.28	1427.32
08/04/88	14.86	1430.74	11/28/90	18.34	1427.26
09/08/88	15.34	1430.26	04/17/91	18.56	1427.04

**153-063-34BBC**Spiritwood Aquifer

LS Elev (msl,ft)=1463

SI (ft.)=160-163

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/20/79	26.76	1436.24	09/24/80	26.87	1436.13
12/18/79	26.70	1436.30	12/23/80	26.55	1436.45
04/08/80	26.90	1436.10	04/10/81	26.57	1436.43
07/01/80	26.90	1436.10	06/29/81	25.93	1437.07
08/28/80	27.03	1435.97	09/24/81	26.45	1436.55

**153-064-04ADD1**Pierre Shale

LS Elev (msl,ft)=1428.86

SI (ft.)=14.5-24.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/16/88	4.31	1424.55	10/11/88	2.09	1426.77
06/22/88	4.61	1424.25	11/09/88	2.25	1426.61
06/29/88	4.29	1424.57			
07/19/88	3.69	1425.17	04/19/89	5.15	1423.71
08/03/88	3.10	1425.76	05/12/89	5.17	1423.69
09/07/88	2.24	1426.62			

**153-064-04ADD2**Pierre Shale

LS Elev (msl,ft)=1428.82

SI (ft.)=8-13

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/16/88	4.25	1424.57	11/09/88	2.87	1425.95
06/22/88	5.51	1423.31			
06/29/88	4.35	1424.47	04/19/89	5.05	1423.77
07/19/88	3.22	1425.60	05/12/89	3.98	1424.84
08/03/88	2.62	1426.20			
09/07/88	2.19	1426.63	04/17/90	6.58	1422.24
10/11/88	2.33	1426.49			

**153-064-04BBB**Pierre Shale

LS Elev (msl,ft)=1443.13

SI (ft.)=23-28

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	6.89	1436.24	05/06/88	12.37	1430.76
10/15/86	8.84	1434.29	06/04/88	11.81	1431.32
10/22/86	9.07	1434.06	07/07/88	11.24	1431.89
10/23/86	10.45	1432.68	08/03/88	11.36	1431.77
10/28/86	9.30	1433.83	09/06/88	11.81	1431.32
10/29/86	10.27	1432.86	10/12/88	12.46	1430.67
			11/09/88	12.62	1430.51
01/07/87	10.25	1432.88	12/15/88	13.15	1429.98
04/01/87	11.31	1431.82			
05/12/87	10.51	1432.62	05/11/89	14.15	1428.98
06/17/87	9.45	1433.68	06/16/89	13.61	1429.52
07/14/87	9.27	1433.86	08/09/89	13.58	1429.55
08/11/87	8.76	1434.37	10/11/89	12.75	1430.38
09/09/87	8.97	1434.16	12/19/89	13.43	1429.70
10/16/87	9.37	1433.76			
11/10/87	9.78	1433.35	04/17/90	15.53	1427.60
12/09/87	10.16	1432.97	06/14/90	14.11	1429.02
			09/06/90	12.05	1431.08
01/19/88	11.03	1432.10	10/31/90	12.09	1431.04
03/31/88	10.57	1432.56			

**153-064-04CAA1**Sand Sediments

LS Elev (msl,ft)=1428.56

SI (ft.)=19.5-24.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/16/88	9.73	1418.83	09/07/88	5.39	1423.17
06/22/88	10.61	1417.95	10/11/88	6.19	1422.37
06/29/88	10.45	1418.11	11/09/88	8.74	1419.82
07/19/88	8.80	1419.76			
08/03/88	7.79	1420.77	05/12/89	5.20	1423.36

**153-064-04CAA2**Till

LS Elev (msl,ft)=1428.54

SI (ft.)=8-13

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/16/88	1.82	1426.72	09/07/88	3.13	1425.41
06/22/88	1.87	1426.67	10/11/88	3.71	1424.83
06/29/88	2.12	1426.42	11/09/88	3.93	1424.61
07/19/88	2.15	1426.39			
08/03/88	2.49	1426.05	05/12/89	3.25	1425.29

**153-064-04CAA3**Pierre Shale

LS Elev (msl,ft)=1428.61

SI (ft.)=73-78

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	0.02	1428.59	09/07/88	1.48	1427.13
06/16/88	0.06	1428.55	10/11/88	1.91	1426.70
06/22/88	0.12	1428.49	11/09/88	2.08	1426.53
07/19/88	0.54	1428.07			
08/03/88	0.82	1427.79	05/12/89	2.01	1426.60

**153-064-04CAA4**Pierre Shale

LS Elev (msl,ft)=1428.68

SI (ft.)=34-39

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	-0.50	1429.18	09/07/88	1.90	1426.78
06/16/88	0.59	1428.09	10/11/88	2.36	1426.32
06/22/88	0.54	1428.14	11/09/88	2.54	1426.14
07/19/88	0.93	1427.75			
08/03/88	1.21	1427.47	05/12/89	2.33	1426.35

**153-064-04DCC1**Silt Sediments

LS Elev (msl,ft)=1428.01

SI (ft.)=19-24

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/16/88	3.03	1424.98	10/11/88	4.92	1423.09
06/22/88	3.57	1424.44	11/09/88	4.31	1423.70
06/29/88	3.98	1424.03			
07/08/88	1.46	1426.55	05/12/89	1.70	1426.31
07/19/88	3.73	1424.28			
08/03/88	4.64	1423.37	04/17/90	2.94	1425.07
09/07/88	5.39	1422.62			

**153-064-04DCC2**Lake Clay

LS Elev (msl,ft)=1428.05

SI (ft.)=8-13

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/16/88	2.70	1425.35	10/11/88	4.75	1423.30
06/22/88	3.10	1424.95	11/09/88	4.10	1423.95
06/29/88	3.68	1424.37			
07/08/88	1.31	1426.74	05/12/89	0.81	1427.24
07/19/88	3.56	1424.49			
08/03/88	4.40	1423.65	04/17/90	2.89	1425.16
09/07/88	5.20	1422.85			

**153-064-04DCC3**Pierre Shale

LS Elev (msl,ft)=1428.03

SI (ft.)=120-125

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	39.24	1388.79	10/11/88	4.27	1423.76
06/16/88	46.51	1381.52	11/09/88	3.80	1424.23
06/22/88	32.24	1395.79			
07/08/88	10.72	1417.31	05/12/89	3.70	1424.33
07/19/88	5.14	1422.89			
08/03/88	4.65	1423.38	04/17/90	4.31	1423.72
09/07/88	4.76	1423.27			

**153-064-04DCC4**Sand Sediments

LS Elev (msl,ft)=1428.08

SI (ft.)=80-85

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	2.77	1425.31	10/11/88	4.18	1423.90
06/16/88	1.84	1426.24	11/09/88	2.64	1425.44
06/22/88	3.45	1424.63			
07/08/88	3.20	1424.88	05/12/89	3.58	1424.50
07/19/88	3.82	1424.26			
08/03/88	4.52	1423.56	04/17/90	4.17	1423.91
09/07/88	4.65	1423.43			

**153-064-05DDA1**Pierre Shale

LS Elev (msl,ft)=1437.17

SI (ft.)=73.2-78.2

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	7.69	1429.48	11/09/88	10.38	1426.79
06/15/88	7.78	1429.39	12/16/88	10.54	1426.63
06/22/88	7.92	1429.25			
07/08/88	7.91	1429.26	03/17/89	11.29	1425.88
07/19/88	8.36	1428.81	04/19/89	10.99	1426.18
08/03/88	8.59	1428.58	05/12/89	9.90	1427.27
09/07/88	9.46	1427.71			
10/12/88	10.20	1426.97	04/17/90	11.94	1425.23

**153-064-05DDA2**Pierre Shale

LS Elev (msl,ft)=1437.18

SI (ft.)=35-40

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	6.52	1430.66	11/09/88	10.44	1426.74
06/15/88	6.72	1430.46	12/16/88	10.86	1426.32
06/22/88	7.09	1430.09			
07/08/88	7.53	1429.65	03/17/89	11.41	1425.77
07/19/88	7.61	1429.57	04/19/89	10.66	1426.52
08/03/88	8.24	1428.94	05/12/89	9.73	1427.45
09/07/88	9.06	1428.12			
10/12/88	10.12	1427.06	04/17/90	11.81	1425.37

**153-064-05DDA3**Till

LS Elev (msl,ft)=1437.28

SI (ft.)=5-10

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	6.35	1430.93	07/19/88	7.56	1429.72
06/15/88	6.74	1430.54	08/03/88	8.30	1428.98
06/22/88	6.83	1430.45	09/07/88	9.18	1428.10
06/29/88	7.52	1429.76	05/12/89	9.95	1427.33
07/08/88	7.62	1429.66			

**153-064-07DCD**Till

LS Elev (msl,ft)=1456.56

SI (ft.)=33-38

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	20.94	1435.62	03/31/88	20.75	1435.81
10/14/86	20.91	1435.65	05/05/88	20.75	1435.81
10/22/86	20.86	1435.70	06/02/88	20.91	1435.65
10/23/86	21.00	1435.56	07/08/88	21.34	1435.22
10/29/86	21.01	1435.55	08/04/88	21.59	1434.97
10/30/86	20.92	1435.64	09/09/88	21.75	1434.81
			10/13/88	21.83	1434.73
01/08/87	20.83	1435.73	11/09/88	21.84	1434.72
04/01/87	20.58	1435.98	12/15/88	21.89	1434.67
05/11/87	20.21	1436.35			
06/16/87	20.06	1436.50	06/15/89	22.00	1434.56
07/14/87	20.27	1436.29	08/08/89	22.50	1434.06
08/05/87	20.20	1436.36	10/12/89	22.63	1433.93
08/11/87	20.22	1436.34	12/20/89	22.78	1433.78
09/09/87	20.48	1436.08			
10/15/87	20.51	1436.05	04/17/90	22.64	1433.92
11/10/87	20.53	1436.03	06/13/90	22.73	1433.83
12/08/87	20.45	1436.11	09/07/90	23.31	1433.25
			10/31/90	23.26	1433.30
01/19/88	20.76	1435.80			

**153-064-09ABD1**Pierre Shale

LS Elev (msl,ft)=1443.41

SI (ft.)=125-130

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	15.61	1427.80	10/11/88	16.99	1426.42
06/16/88	15.25	1428.16	11/09/88	16.44	1426.97
06/22/88	16.28	1427.13	05/12/89	16.51	1426.90
07/08/88	16.18	1427.23			
07/19/88	16.71	1426.70	04/17/90	17.14	1426.27
08/03/88	17.61	1425.80			
09/07/88	16.59	1426.82			

**153-064-09ABD2**Gravel Sediments

LS Elev (msl,ft)=1443.43

SI (ft.)=85-90

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	15.77	1427.66	10/11/88	17.36	1426.07
06/16/88	15.80	1427.63	11/09/88	17.49	1425.94
06/22/88	16.37	1427.06	05/12/89	16.71	1426.72
07/08/88	16.25	1427.18			
07/19/88	16.93	1426.50	04/17/90	17.23	1426.20
08/03/88	17.69	1425.74			
09/07/88	17.75	1425.68			

**153-064-09ABD3**Lake Clay

LS Elev (msl,ft)=1443.39

SI (ft.)=10-15

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	10.91	1432.48	09/07/88	12.72	1430.67
06/16/88	11.15	1432.24	10/11/88	13.04	1430.35
06/22/88	11.34	1432.05	11/09/88	13.12	1430.27
06/29/88	11.24	1432.15	05/12/89	10.47	1432.92
07/08/88	11.46	1431.93			
07/19/88	11.89	1431.50	04/17/90	14.04	1429.35
08/03/88	12.13	1431.26			

**153-064-09BAD1**Pierre Shale

LS Elev (msl,ft)=1443.41

SI (ft.)=93-98

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	12.36	1431.05	11/09/88	14.96	1428.45
06/15/88	12.42	1430.99	12/16/88	14.94	1428.47
06/22/88	12.68	1430.73			
07/08/88	13.06	1430.35	03/17/89	15.75	1427.66
07/19/88	13.31	1430.10	04/19/89	15.24	1428.17
08/03/88	13.95	1429.46	05/12/89	14.43	1428.98
09/07/88	14.73	1428.68			
10/12/88	14.06	1429.35	04/17/90	16.99	1426.42

**153-064-09BAD2**Gravel Sediments

LS Elev (msl,ft)=1443.43

SI (ft.)=43-48

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	11.81	1431.62	11/09/88	14.62	1428.81
06/15/88	12.11	1431.32	12/16/88	15.07	1428.36
06/22/88	12.25	1431.18			
07/08/88	12.28	1431.15	03/17/89	15.20	1428.23
07/19/88	12.73	1430.70	04/19/89	14.68	1428.75
08/03/88	13.22	1430.21	05/12/89	13.68	1429.75
09/07/88	13.86	1429.57			
10/12/88	14.50	1428.93	04/17/90	16.31	1427.12

**153-064-09BAD3**Lake Clay

LS Elev (msl,ft)=1443.39

SI (ft.)=10-15

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	11.79	1431.60	09/07/88	13.46	1429.93
06/15/88	12.03	1431.36	10/11/88	13.51	1429.88
06/22/88	12.30	1431.09	11/09/88	14.61	1428.78
06/29/88	12.18	1431.21			
07/08/88	12.21	1431.18	04/19/89	14.68	1428.71
07/19/88	12.68	1430.71	05/12/89	13.75	1429.64
08/03/88	13.06	1430.33			

**153-064-09BBC1**Pierre Shale

LS Elev (msl,ft)=1439.69

SI (ft.)=92-97

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	8.91	1430.78	11/09/88	11.68	1428.01
06/15/88	9.16	1430.53	12/16/88	11.69	1428.00
06/22/88	9.25	1430.44			
07/08/88	9.23	1430.46	04/19/89	11.89	1427.80
07/19/88	9.84	1429.85	05/12/89	8.08	1431.61
08/03/88	10.25	1429.44			
09/07/88	11.23	1428.46	04/17/90	13.39	1426.30
10/12/88	11.58	1428.11			

**153-064-09BBC2**Sand Sediments

LS Elev (msl,ft)=1439.72

SI (ft.)=58-63

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	6.67	1433.05	11/09/88	9.82	1429.90
06/15/88	6.72	1433.00	12/16/88	10.03	1429.69
06/22/88	6.97	1432.75			
07/08/88	6.76	1432.96	04/19/89	10.52	1429.20
07/19/88	7.30	1432.42	05/12/89	9.77	1429.95
08/03/88	7.77	1431.95			
09/07/88	8.87	1430.85	04/17/90	12.35	1427.37
10/12/88	9.64	1430.08			

**153-064-09BBC3**Till

LS Elev (msl,ft)=1439.72

SI (ft.)=10-15

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	6.39	1433.33	10/12/88	11.40	1428.32
06/15/88	6.97	1432.75	11/09/88	11.56	1428.16
06/22/88	7.37	1432.35	12/16/88	12.04	1427.68
06/29/88	7.64	1432.08			
07/08/88	8.06	1431.66	05/12/89	5.14	1434.58
07/19/88	8.52	1431.20			
08/03/88	9.22	1430.50	04/17/90	11.14	1428.58
09/07/88	10.22	1429.50			

**153-064-09DCA1**Pierre Shale

LS Elev (msl,ft)=1443.67

SI (ft.)=85-95

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	19.75	1423.92	11/09/88	20.21	1423.46
06/16/88	20.17	1423.50	12/16/88	19.37	1424.30
06/22/88	20.56	1423.11			
07/06/88	20.61	1423.06	03/17/89	18.97	1424.70
07/19/88	20.64	1423.03	04/19/89	19.31	1424.36
08/03/88	21.71	1421.96	05/12/89	20.29	1423.38
09/07/88	21.78	1421.89			
10/12/88	23.03	1420.64	04/17/90	21.52	1422.15

**153-064-09DCA2**Pierre Shale

LS Elev (msl,ft)=1443.64

SI (ft.)=38-48

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	12.54	1431.10	11/09/88	15.39	1428.25
06/16/88	12.72	1430.92	12/16/88	15.54	1428.10
06/22/88	12.78	1430.86			
07/06/88	12.87	1430.77	03/17/89	15.93	1427.71
07/19/88	13.59	1430.05	04/19/89	15.77	1427.87
08/03/88	13.95	1429.69	05/12/89	15.33	1428.31
09/07/88	14.67	1428.97			
10/12/88	15.44	1428.20	04/17/90	18.48	1425.16

**153-064-09DCA3**Till

LS Elev (msl, ft)=1443.62

SI (ft.)=10-20

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	8.51	1435.11	11/09/88	12.68	1430.94
06/16/88	8.72	1434.90	12/16/88	13.22	1430.40
06/22/88	9.11	1434.51			
06/29/88	9.04	1434.58	03/17/89	13.92	1429.70
07/06/88	9.15	1434.47	04/19/89	13.65	1429.97
07/19/88	9.69	1433.93	05/12/89	11.84	1431.78
08/03/88	10.24	1433.38			
09/07/88	10.97	1432.65	04/17/90	15.36	1428.26
10/12/88	12.16	1431.46			

**153-064-09DDA1**Pierre Shale

LS Elev (msl, ft)=1438.97

SI (ft.)=93-98

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	11.85	1427.12	11/09/88	12.48	1426.49
06/16/88	11.69	1427.28	12/16/88	12.56	1426.41
06/22/88	11.83	1427.14			
07/06/88	11.55	1427.42	03/17/89	13.82	1425.15
07/19/88	11.81	1427.16	04/19/89	14.25	1424.72
08/03/88	12.84	1426.13	05/12/89	14.37	1424.60
09/07/88	12.55	1426.42			
10/12/88	12.74	1426.23	04/17/90	16.22	1422.75

**153-064-09DDA2**Pierre Shale

LS Elev (msl, ft)=1438.98

SI (ft.)=18-23

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	6.75	1432.23	11/09/88	9.78	1429.20
06/16/88	6.83	1432.15	12/16/88	10.39	1428.59
06/22/88	6.95	1432.03			
06/29/88	6.94	1432.04	03/17/89	11.26	1427.72
07/06/88	6.88	1432.10	04/19/89	11.04	1427.94
07/19/88	7.23	1431.75	05/12/89	10.56	1428.42
08/03/88	7.71	1431.27			
09/07/88	8.35	1430.63	04/17/90	13.13	1425.85
10/12/88	9.39	1429.59			

**153-064-10BBC1**Till

LS Elev (msl,ft)=1438.62

SI (ft.)=8-18

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	1.40	1437.22	11/10/87	5.73	1432.89
10/14/86	2.43	1436.19	12/08/87	5.71	1432.91
10/20/86	2.62	1436.00			
01/08/87	3.90	1434.72	01/19/88	6.40	1432.22
04/01/87	2.47	1436.15	03/31/88	6.36	1432.26
05/11/87	3.86	1434.76	05/06/88	5.20	1433.42
06/16/87	4.78	1433.84	06/02/88	5.90	1432.72
07/14/87	4.71	1433.91	07/09/88	6.46	1432.16
08/06/87	4.22	1434.40	08/04/88	7.28	1431.34
08/11/87	4.70	1433.92	09/09/88	7.92	1430.70
09/09/87	5.45	1433.17	10/13/88	8.25	1430.37
10/15/87	5.60	1433.02	11/09/88	8.24	1430.38
			12/15/88	8.25	1430.37

**153-064-10BBC2**Pierre Shale

LS Elev (msl,ft)=1438.55

SI (ft.)=64-69

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	6.19	1432.36	09/12/89	10.37	1428.18
06/15/88	7.53	1431.02	10/12/89	10.44	1428.11
06/22/88	7.68	1430.87	12/20/89	10.07	1428.48
07/06/88	7.67	1430.88			
07/19/88	8.07	1430.48	02/07/90	10.20	1428.35
08/03/88	8.59	1429.96	04/16/90	10.33	1428.22
09/07/88	9.22	1429.33	05/16/90	9.78	1428.77
10/12/88	9.78	1428.77	06/13/90	9.30	1429.25
11/09/88	9.72	1428.83	07/10/90	8.69	1429.86
12/16/88	9.81	1428.74	07/11/90	8.69	1429.86
			08/09/90	8.79	1429.76
03/17/89	9.98	1428.57	09/07/90	9.29	1429.26
04/19/89	8.94	1429.61	10/02/90	9.60	1428.95
05/12/89	8.40	1430.15	10/31/90	9.61	1428.94
06/15/89	9.50	1429.05	11/28/90	9.57	1428.98
07/13/89	9.36	1429.19			
08/08/89	10.49	1428.06	04/17/91	9.93	1428.62

**153-064-12DDA**Till

LS Elev (msl,ft)=1467

SI (ft.)=33-38

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	18.58	1448.42	03/31/88	24.31	1442.69
10/14/86	18.72	1448.28	05/06/88	24.57	1442.43
10/21/86	18.62	1448.38	06/02/88	24.71	1442.29
10/22/86	18.68	1448.32	07/08/88	24.75	1442.25
10/29/86	18.89	1448.11	08/03/88	24.56	1442.44
10/30/86	18.76	1448.24	09/09/88	24.65	1442.35
			10/13/88	25.50	1441.50
01/07/87	20.03	1446.97	11/10/88	25.70	1441.30
04/01/87	21.19	1445.81	12/15/88	26.70	1440.30
05/11/87	18.77	1448.23			
06/16/87	17.36	1449.64	06/15/89	28.25	1438.75
07/14/87	17.42	1449.58	08/08/89	28.00	1439.00
08/05/87	17.06	1449.94	10/12/89	28.35	1438.65
08/10/87	17.41	1449.59	12/20/89	29.46	1437.54
09/09/87	17.79	1449.21			
10/15/87	18.85	1448.15	04/17/90	30.80	1436.20
11/10/87	19.88	1447.12	06/13/90	30.76	1436.24
12/08/87	20.32	1446.68	09/06/90	29.70	1437.30
			10/31/90	29.64	1437.36
01/19/88	22.01	1444.99			

153-064-18C L

Devils Lake Stage

LS Elev (msl,ft)=1400

SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
00/00/01	-24.00	1424.00	10/02/30	-11.58	1411.58
00/00/02	-25.80	1425.80	10/03/30	-11.57	1411.57
00/00/03	-24.80	1424.80	10/04/30	-11.58	1411.58
			10/05/30	-11.60	1411.60
			10/06/30	-11.60	1411.60
			10/07/30	-11.66	1411.66
00/00/04	-25.00	1425.00	10/08/30	-11.61	1411.61
			10/09/30	-11.61	1411.61
00/00/05	-25.20	1425.20	10/10/30	-11.61	1411.61
			10/11/30	-11.65	1411.65
00/00/06	-24.60	1424.60	10/12/30	-11.75	1411.75
			10/13/30	-11.72	1411.72
00/00/07	-24.20	1424.20	10/14/30	-11.75	1411.75
			10/15/30	-11.85	1411.85
00/00/08	-23.40	1423.40	10/16/30	-11.95	1411.95
			10/25/30	-11.76	1411.76
00/00/09	-22.60	1422.60	10/27/30	-11.76	1411.76
			10/28/30	-11.74	1411.74
00/00/10	-21.40	1421.40	10/29/30	-11.71	1411.71
			10/30/30	-11.71	1411.71
00/00/11	-20.40	1420.40	10/31/30	-11.71	1411.71
			11/01/30	-11.76	1411.76
00/00/12	-21.40	1421.40	11/04/30	-11.66	1411.66
00/00/13	-21.80	1421.80	04/03/31	-11.91	1411.91
			05/06/31	-11.79	1411.79
00/00/14	-20.60	1420.60	05/07/31	-11.80	1411.80
			05/08/31	-11.83	1411.83
00/00/15	-19.20	1419.20	05/09/31	-11.74	1411.74
			05/10/31	-11.77	1411.77
00/00/16	-19.60	1419.60	05/11/31	-11.76	1411.76
			05/12/31	-11.76	1411.76
00/00/17	-18.80	1418.80	05/13/31	-11.76	1411.76
			05/14/31	-11.81	1411.81
00/00/18	-17.40	1417.40	05/15/31	-11.71	1411.71
			05/16/31	-11.73	1411.73
00/00/19	-18.00	1418.00	05/17/31	-11.94	1411.94
			05/18/31	-11.71	1411.71
00/00/20	-17.60	1417.60	05/19/31	-11.81	1411.81
			05/20/31	-11.66	1411.66
00/00/21	-16.70	1416.70	05/21/31	-11.64	1411.64
			05/22/31	-11.71	1411.71
00/00/22	-17.20	1417.20	05/23/31	-11.65	1411.65
			05/24/31	-11.66	1411.66
00/00/23	-16.30	1416.30	05/25/31	-11.68	1411.68
			05/26/31	-11.62	1411.62
00/00/24	-16.20	1416.20	05/27/31	-11.58	1411.58
			05/28/31	-11.65	1411.65
00/00/25	-14.80	1414.80	05/29/31	-11.66	1411.66
			05/30/31	-11.64	1411.64
00/00/26	-13.70	1413.70	05/31/31	-11.66	1411.66
			06/01/31	-11.60	1411.60
00/00/27	-13.60	1413.60	06/02/31	-11.63	1411.63
			06/03/31	-11.56	1411.56
00/00/28	-12.80	1412.80	06/04/31	-11.61	1411.61
			06/05/31	-11.58	1411.58
00/00/29	-12.20	1412.20	06/06/31	-11.40	1411.40
			06/07/31	-11.46	1411.46
00/00/30	-11.40	1411.40	06/08/31	-11.43	1411.43
10/01/30	-11.58	1411.58	06/09/31	-11.44	1411.44

**153-064-18C L (Continued)**  
**Devils Lake Stage**

**LS Elev (msl,ft)=1400  
 SL (ft.)=0-0**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/10/31	-11.38	1411.38	08/09/31	-11.08	1411.08
06/11/31	-11.55	1411.55	08/10/31	-11.00	1411.00
06/12/31	-11.52	1411.52	08/11/31	-11.04	1411.04
06/13/31	-11.51	1411.51	08/12/31	-11.01	1411.01
06/14/31	-11.51	1411.51	08/13/31	-10.94	1410.94
06/15/31	-11.54	1411.54	08/14/31	-10.94	1410.94
06/16/31	-11.52	1411.52	08/15/31	-10.98	1410.98
06/17/31	-11.50	1411.50	08/16/31	-10.96	1410.96
06/18/31	-11.48	1411.48	08/17/31	-10.93	1410.93
06/19/31	-11.40	1411.40	08/18/31	-10.94	1410.94
06/20/31	-11.44	1411.44	08/19/31	-11.01	1411.01
06/21/31	-11.36	1411.36	08/20/31	-10.98	1410.98
06/22/31	-11.38	1411.38	08/21/31	-10.98	1410.98
06/23/31	-11.41	1411.41	08/22/31	-10.94	1410.94
06/24/31	-11.36	1411.36	08/23/31	-10.92	1410.92
06/25/31	-11.39	1411.39	08/24/31	-10.88	1410.88
06/26/31	-11.36	1411.36	08/25/31	-10.86	1410.86
06/27/31	-11.38	1411.38	08/26/31	-10.88	1410.88
06/28/31	-11.41	1411.41	08/27/31	-11.02	1411.02
06/29/31	-11.42	1411.42	08/28/31	-10.91	1410.91
06/30/31	-11.41	1411.41	08/29/31	-10.96	1410.96
07/01/31	-11.38	1411.38	08/30/31	-11.11	1411.11
07/02/31	-11.36	1411.36	08/31/31	-10.96	1410.96
07/03/31	-11.29	1411.29	09/01/31	-10.91	1410.91
07/04/31	-11.38	1411.38	09/02/31	-10.91	1410.91
07/05/31	-11.44	1411.44	09/03/31	-10.91	1410.91
07/06/31	-11.36	1411.36	09/04/31	-10.94	1410.94
07/07/31	-11.36	1411.36	09/05/31	-10.84	1410.84
07/08/31	-11.34	1411.34	09/06/31	-10.89	1410.89
07/09/31	-11.34	1411.34	09/07/31	-10.85	1410.85
07/10/31	-11.34	1411.34	09/08/31	-10.81	1410.81
07/11/31	-11.33	1411.33	09/09/31	-10.81	1410.81
07/12/31	-11.40	1411.40	09/10/31	-10.81	1410.81
07/13/31	-11.39	1411.39	09/11/31	-10.80	1410.80
07/14/31	-11.38	1411.38	09/12/31	-10.78	1410.78
07/15/31	-11.34	1411.34	09/13/31	-10.80	1410.80
07/16/31	-11.35	1411.35	09/14/31	-10.72	1410.72
07/17/31	-11.37	1411.37	09/15/31	-10.73	1410.73
07/18/31	-11.40	1411.40	09/16/31	-10.76	1410.76
07/19/31	-11.34	1411.34	09/17/31	-10.78	1410.78
07/20/31	-11.36	1411.36	09/18/31	-10.76	1410.76
07/21/31	-11.29	1411.29	09/19/31	-10.78	1410.78
07/22/31	-11.24	1411.24	09/20/31	-10.81	1410.81
07/23/31	-11.24	1411.24	09/21/31	-10.84	1410.84
07/24/31	-11.26	1411.26	09/22/31	-10.86	1410.86
07/25/31	-11.19	1411.19	09/23/31	-10.77	1410.77
07/26/31	-11.21	1411.21	09/24/31	-10.81	1410.81
07/27/31	-11.14	1411.14	09/25/31	-10.85	1410.85
07/28/31	-11.08	1411.08	09/26/31	-10.86	1410.86
07/29/31	-11.14	1411.14	09/27/31	-10.86	1410.86
07/30/31	-11.09	1411.09	09/28/31	-10.84	1410.84
07/31/31	-11.08	1411.08	09/29/31	-10.88	1410.88
08/01/31	-11.09	1411.09	09/30/31	-10.82	1410.82
08/02/31	-11.11	1411.11	10/01/31	-10.81	1410.81
08/03/31	-11.11	1411.11	10/02/31	-10.79	1410.79
08/04/31	-11.09	1411.09	10/03/31	-10.76	1410.76
08/05/31	-11.02	1411.02	10/04/31	-10.78	1410.78
08/06/31	-11.01	1411.01	10/05/31	-10.84	1410.84
08/07/31	-11.04	1411.04	10/06/31	-10.71	1410.71
08/08/31	-11.04	1411.04	10/07/31	-10.71	1410.71

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl,ft)=1400  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/01/33	-9.72	1409.72	06/14/41	-2.72	1402.72
08/02/33	-9.72	1409.72	07/31/41	-2.17	1402.17
08/19/33	-9.53	1409.53	09/20/41	-2.26	1402.26
08/23/33	-9.35	1409.35	10/11/41	-2.41	1402.41
08/30/33	-9.34	1409.34			
08/31/33	-9.36	1409.36	05/04/42	-4.29	1404.29
09/01/33	-9.33	1409.33	05/20/42	-4.42	1404.42
09/02/33	-9.33	1409.33	06/08/42	-4.53	1404.53
09/29/33	-9.03	1409.03	06/29/42	-4.50	1404.50
09/30/33	-8.98	1408.98	07/03/42	-4.48	1404.48
10/01/33	-8.90	1408.90	07/13/42	-4.40	1404.40
10/05/33	-8.77	1408.77	07/20/42	-4.40	1404.40
11/02/33	-8.88	1408.88	07/31/42	-4.30	1404.30
			08/05/42	-4.32	1404.32
04/25/34	-8.82	1408.82	08/12/42	-4.22	1404.22
06/09/34	-8.34	1408.34	08/21/42	-4.17	1404.17
08/07/34	-7.37	1407.37	08/29/42	-4.06	1404.06
09/13/34	-7.05	1407.05	08/31/42	-4.12	1404.12
			09/11/42	-4.07	1404.07
05/23/35	-7.44	1407.44	09/16/42	-4.07	1404.07
07/22/35	-7.36	1407.36	09/30/42	-4.02	1404.02
08/29/35	-7.14	1407.14			
10/19/35	-6.70	1406.70	05/03/43	-4.40	1404.40
			05/05/43	-4.44	1404.44
05/02/36	-7.22	1407.22	05/07/43	-3.99	1403.99
07/22/36	-5.99	1405.99	05/10/43	-4.09	1404.09
09/24/36	-5.29	1405.29	05/12/43	-4.39	1404.39
10/24/36	-5.08	1405.08	05/14/43	-4.39	1404.39
			05/17/43	-4.44	1404.44
05/29/37	-4.89	1404.89	05/20/43	-4.40	1404.40
08/18/37	-4.23	1404.23	05/22/43	-4.40	1404.40
10/26/37	-3.81	1403.81	05/25/43	-4.38	1404.38
			05/27/43	-4.41	1404.41
03/21/38	-3.08	1403.08	05/29/43	-4.30	1404.30
04/15/38	-4.00	1404.00	05/31/43	-4.41	1404.41
05/19/38	-3.68	1403.68	06/03/43	-4.29	1404.29
06/11/38	-3.64	1403.64	06/05/43	-4.55	1404.55
07/02/38	-3.64	1403.64	06/07/43	-4.55	1404.55
08/06/38	-3.50	1403.50	06/09/43	-4.57	1404.57
09/15/38	-2.99	1402.99	06/11/43	-4.61	1404.61
10/08/38	-2.64	1402.64	06/14/43	-4.61	1404.61
11/21/38	-2.14	1402.14	06/16/43	-4.58	1404.58
			06/19/43	-4.61	1404.61
04/25/39	-2.66	1402.66	06/22/43	-4.61	1404.61
05/08/39	-2.21	1402.21	06/24/43	-4.51	1404.51
05/15/39	-2.31	1402.31	06/26/43	-4.60	1404.60
06/18/39	-2.46	1402.46	06/28/43	-4.50	1404.50
07/25/39	-1.86	1401.86	06/30/43	-4.70	1404.70
08/19/39	-1.79	1401.79	07/02/43	-4.55	1404.55
09/21/39	-1.46	1401.46	07/04/43	-4.55	1404.55
			07/07/43	-4.60	1404.60
03/22/40	-1.52	1401.52	07/10/43	-4.51	1404.51
04/29/40	-2.26	1402.26	07/12/43	-4.56	1404.56
08/12/40	-1.82	1401.82	07/14/43	-4.60	1404.60
09/23/40	-1.14	1401.14	07/16/43	-4.57	1404.57
10/24/40	-0.87	1400.87	07/18/43	-4.53	1404.53
			07/21/43	-4.51	1404.51
04/22/41	-2.54	1402.54	07/23/43	-4.43	1404.43
05/15/41	-2.62	1402.62	07/26/43	-4.51	1404.51
06/06/41	-2.84	1402.84	07/28/43	-4.51	1404.51

153-064-18C L (Continued)

Devils Lake Stage

LS Elev (msl, ft)=1400

SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/30/43	-4.50	1404.50	05/19/44	-3.23	1403.23
08/02/43	-4.46	1404.46	05/22/44	-3.25	1403.25
08/04/43	-4.36	1404.36	05/25/44	-3.53	1403.53
08/06/43	-4.31	1404.31	05/27/44	-3.74	1403.74
08/08/43	-3.88	1403.88	05/29/44	-3.74	1403.74
08/10/43	-3.86	1403.86	05/31/44	-3.76	1403.76
08/12/43	-4.26	1404.26	06/03/44	-3.59	1403.59
08/15/43	-3.96	1403.96	06/06/44	-3.71	1403.71
08/18/43	-4.11	1404.11	06/08/44	-3.68	1403.68
08/21/43	-4.04	1404.04	06/10/44	-3.70	1403.70
08/23/43	-4.04	1404.04	06/12/44	-3.66	1403.66
08/28/43	-4.07	1404.07	06/14/44	-3.68	1403.68
08/30/43	-4.05	1404.05	06/18/44	-3.76	1403.76
09/01/43	-4.01	1404.01	06/21/44	-3.71	1403.71
09/03/43	-3.93	1403.93	06/24/44	-3.74	1403.74
09/06/43	-3.89	1403.89	06/27/44	-3.66	1403.66
09/08/43	-3.83	1403.83	06/30/44	-4.01	1404.01
09/11/43	-3.92	1403.92	07/03/44	-3.76	1403.76
09/13/43	-3.97	1403.97	07/06/44	-3.96	1403.96
09/16/43	-3.79	1403.79	07/08/44	-3.71	1403.71
09/19/43	-3.73	1403.73	07/11/44	-3.66	1403.66
09/24/43	-3.87	1403.87	07/13/44	-3.76	1403.76
09/26/43	-3.67	1403.67	07/15/44	-3.66	1403.66
09/29/43	-3.72	1403.72	07/17/44	-3.66	1403.66
10/02/43	-3.63	1403.63	07/20/44	-3.66	1403.66
10/04/43	-3.64	1403.64	07/22/44	-3.63	1403.63
10/06/43	-3.62	1403.62	07/24/44	-3.64	1403.64
10/09/43	-3.60	1403.60	07/26/44	-3.63	1403.63
10/11/43	-3.44	1403.44	07/31/44	-3.60	1403.60
10/13/43	-3.46	1403.46	08/02/44	-3.40	1403.40
10/16/43	-3.54	1403.54	08/05/44	-3.40	1403.40
10/18/43	-3.47	1403.47	08/06/44	-3.50	1403.50
10/20/43	-3.47	1403.47	08/08/44	-3.48	1403.48
10/23/43	-3.47	1403.47	08/11/44	-3.40	1403.40
10/26/43	-3.47	1403.47	08/13/44	-3.40	1403.40
10/28/43	-3.37	1403.37	08/16/44	-3.48	1403.48
10/30/43	-3.45	1403.45	08/19/44	-3.42	1403.42
10/31/43	-3.43	1403.43	08/21/44	-3.40	1403.40
11/01/43	-3.41	1403.41	08/24/44	-3.50	1403.50
11/03/43	-3.41	1403.41	08/26/44	-3.40	1403.40
11/05/43	-3.40	1403.40	08/28/44	-3.38	1403.38
11/06/43	-3.40	1403.40	08/30/44	-3.38	1403.38
			08/31/44	-3.40	1403.40
01/03/44	-3.86	1403.86	09/02/44	-3.56	1403.56
01/31/44	-3.85	1403.85	09/04/44	-3.68	1403.68
02/03/44	-3.85	1403.85	09/05/44	-3.60	1403.60
02/29/44	-3.82	1403.82	09/06/44	-3.68	1403.68
03/01/44	-3.82	1403.82	09/09/44	-3.68	1403.68
04/08/44	-3.54	1403.54	09/12/44	-3.58	1403.58
04/13/44	-3.48	1403.48	09/14/44	-3.68	1403.68
04/24/44	-3.02	1403.02	09/16/44	-3.68	1403.68
04/26/44	-3.35	1403.35	09/19/44	-3.70	1403.70
04/28/44	-3.34	1403.34	09/21/44	-3.68	1403.68
04/30/44	-3.34	1403.34	09/23/44	-3.55	1403.55
05/01/44	-3.34	1403.34	09/26/44	-3.44	1403.44
05/05/44	-3.31	1403.31	09/28/44	-3.73	1403.73
05/08/44	-3.33	1403.33	09/30/44	-3.50	1403.50
05/10/44	-3.29	1403.29	10/03/44	-3.49	1403.49
05/13/44	-3.33	1403.33	10/05/44	-3.48	1403.48
05/15/44	-3.30	1403.30	10/07/44	-3.60	1403.60

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl, ft)=1400  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/09/44	-3.44	1403.44	08/04/45	-4.01	1404.01
10/11/44	-3.43	1403.43	08/06/45	-4.01	1404.01
10/14/44	-3.40	1403.40	08/08/45	-4.04	1404.04
10/17/44	-3.39	1403.39	08/10/45	-3.99	1403.99
10/19/44	-3.20	1403.20	08/12/45	-3.98	1403.98
10/21/44	-3.40	1403.40	08/16/45	-3.92	1403.92
10/23/44	-3.20	1403.20	08/18/45	-3.90	1403.90
10/25/44	-3.40	1403.40	08/20/45	-3.84	1403.84
10/27/44	-3.40	1403.40	08/22/45	-3.89	1403.89
10/30/44	-3.33	1403.33	08/24/45	-3.74	1403.74
10/31/44	-3.33	1403.33	08/27/45	-3.84	1403.84
12/31/44	-3.50	1403.50	08/29/45	-3.79	1403.79
			08/31/45	-3.77	1403.77
01/10/45	-3.53	1403.53	09/03/45	-3.74	1403.74
02/28/45	-3.60	1403.60	09/06/45	-3.74	1403.74
03/05/45	-3.62	1403.62	09/10/45	-3.74	1403.74
04/25/45	-4.31	1404.31	09/12/45	-3.65	1403.65
04/27/45	-4.69	1404.69	09/14/45	-3.60	1403.60
04/30/45	-4.49	1404.49	09/16/45	-3.89	1403.89
05/02/45	-4.39	1404.39	09/18/45	-3.79	1403.79
05/05/45	-4.39	1404.39	09/22/45	-3.89	1403.89
05/10/45	-4.34	1404.34	09/25/45	-3.79	1403.79
05/12/45	-4.19	1404.19	09/27/45	-3.75	1403.75
05/14/45	-4.24	1404.24	09/29/45	-3.84	1403.84
05/17/45	-4.34	1404.34	09/30/45	-3.80	1403.80
05/19/45	-4.29	1404.29	10/02/45	-3.73	1403.73
05/21/45	-4.24	1404.24	10/04/45	-3.74	1403.74
05/23/45	-4.34	1404.34	10/06/45	-3.58	1403.58
05/26/45	-4.39	1404.39	10/09/45	-3.70	1403.70
05/28/45	-4.24	1404.24	10/10/45	-3.69	1403.69
05/30/45	-4.34	1404.34	10/12/45	-3.68	1403.68
05/31/45	-4.34	1404.34	10/14/45	-3.68	1403.68
06/02/45	-4.34	1404.34	10/16/45	-3.68	1403.68
06/04/45	-4.39	1404.39	10/19/45	-3.65	1403.65
06/06/45	-4.37	1404.37	10/21/45	-3.48	1403.48
06/09/45	-4.36	1404.36	10/23/45	-3.58	1403.58
06/11/45	-4.36	1404.36	10/27/45	-3.68	1403.68
06/14/45	-4.29	1404.29	10/30/45	-3.58	1403.58
06/16/45	-4.29	1404.29	10/31/45	-3.63	1403.63
06/18/45	-4.34	1404.34	11/01/45	-3.53	1403.53
06/21/45	-4.29	1404.29	11/03/45	-3.54	1403.54
06/23/45	-4.19	1404.19	11/05/45	-3.54	1403.54
06/25/45	-4.19	1404.19	11/30/45	-3.66	1403.66
06/27/45	-4.19	1404.19	12/11/45	-3.69	1403.69
06/30/45	-4.29	1404.29			
07/02/45	-4.09	1404.09	03/31/46	-4.50	1404.50
07/05/45	-4.09	1404.09	04/03/46	-4.40	1404.40
07/07/45	-4.09	1404.09	04/06/46	-4.65	1404.65
07/10/45	-4.07	1404.07	04/08/46	-4.50	1404.50
07/12/45	-4.06	1404.06	04/11/46	-4.65	1404.65
07/14/45	-4.07	1404.07	04/15/46	-4.82	1404.82
07/16/45	-4.04	1404.04	04/17/46	-4.74	1404.74
07/19/45	-4.07	1404.07	04/20/46	-4.99	1404.99
07/21/45	-4.04	1404.04	04/22/46	-4.74	1404.74
07/23/45	-4.03	1404.03	04/25/46	-4.74	1404.74
07/26/45	-4.07	1404.07	04/27/46	-4.89	1404.89
07/28/45	-4.04	1404.04	04/30/46	-4.84	1404.84
07/30/45	-4.01	1404.01	05/02/46	-4.74	1404.74
07/31/45	-4.02	1404.02	05/04/46	-4.69	1404.69
08/01/45	-4.03	1404.03	05/07/46	-4.72	1404.72

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl,ft)=1400  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/08/46	-4.69	1404.69	08/13/47	-3.25	1403.25
05/10/46	-4.69	1404.69	10/13/47	-2.98	1402.98
05/13/46	-4.67	1404.67			
05/16/46	-4.72	1404.72	06/11/48	-5.25	1405.25
05/18/46	-4.67	1404.67	06/21/48	-5.17	1405.17
05/21/46	-4.71	1404.71	06/24/48	-5.16	1405.16
06/10/46	-4.39	1404.39	07/03/48	-5.22	1405.22
06/14/46	-4.42	1404.42	07/06/48	-5.13	1405.13
06/17/46	-4.25	1404.25	07/10/48	-5.12	1405.12
06/21/46	-4.32	1404.32	07/13/48	-5.12	1405.12
06/25/46	-4.37	1404.37	07/17/48	-5.09	1405.09
06/28/46	-4.35	1404.35	07/22/48	-5.12	1405.12
06/30/46	-4.35	1404.35	07/24/48	-5.11	1405.11
07/04/46	-4.47	1404.47	07/26/48	-5.07	1405.07
07/07/46	-4.37	1404.37	07/29/48	-5.02	1405.02
07/11/46	-4.27	1404.27	08/02/48	-4.97	1404.97
07/15/46	-4.28	1404.28	08/04/48	-4.97	1404.97
07/17/46	-4.25	1404.25	08/08/48	-4.97	1404.97
07/20/46	-4.15	1404.15	08/12/48	-4.89	1404.89
07/22/46	-4.22	1404.22	08/16/48	-4.88	1404.88
07/24/46	-4.07	1404.07	08/18/48	-4.87	1404.87
07/27/46	-3.95	1403.95	08/20/48	-4.87	1404.87
07/30/46	-3.97	1403.97	08/23/48	-4.77	1404.77
07/31/46	-3.97	1403.97	08/26/48	-4.72	1404.72
08/02/46	-3.96	1403.96	08/31/48	-4.65	1404.65
08/05/46	-3.92	1403.92	09/04/48	-4.57	1404.57
08/08/46	-3.87	1403.87	09/08/48	-4.53	1404.53
08/11/46	-3.84	1403.84	09/11/48	-4.53	1404.53
08/15/46	-3.72	1403.72	09/13/48	-4.52	1404.52
08/19/46	-3.57	1403.57	09/17/48	-4.47	1404.47
08/23/46	-3.62	1403.62	09/21/48	-4.47	1404.47
08/26/46	-3.57	1403.57	09/25/48	-4.42	1404.42
08/27/46	-3.32	1403.32	09/28/48	-4.44	1404.44
08/28/46	-3.57	1403.57	10/02/48	-4.37	1404.37
08/31/46	-3.52	1403.52	10/07/48	-4.32	1404.32
09/01/46	-3.51	1403.51	10/13/48	-4.24	1404.24
09/06/46	-3.47	1403.47	10/17/48	-4.22	1404.22
09/19/46	-3.72	1403.72	10/24/48	-4.17	1404.17
09/20/46	-3.50	1403.50	10/28/48	-4.17	1404.17
09/26/46	-3.52	1403.52			
09/28/46	-3.57	1403.57	05/10/49	-5.58	1405.58
09/30/46	-3.53	1403.53	05/26/49	-5.88	1405.88
10/03/46	-3.57	1403.57	05/28/49	-5.93	1405.93
10/12/46	-3.58	1403.58	06/04/49	-6.26	1406.26
10/21/46	-3.57	1403.57	06/09/49	-6.55	1406.55
11/05/46	-3.62	1403.62	06/17/49	-6.58	1406.58
11/09/46	-3.59	1403.59	06/28/49	-6.88	1406.88
11/13/46	-3.63	1403.63	07/03/49	-7.03	1407.03
11/30/46	-3.52	1403.52	07/09/49	-7.20	1407.20
12/10/46	-3.45	1403.45	07/13/49	-7.24	1407.24
			07/16/49	-7.25	1407.25
01/07/47	-3.48	1403.48	07/19/49	-7.22	1407.22
05/10/47	-3.62	1403.62	07/22/49	-7.15	1407.15
05/19/47	-3.51	1403.51	07/29/49	-7.18	1407.18
05/26/47	-3.52	1403.52	08/02/49	-7.12	1407.12
06/06/47	-3.41	1403.41	08/09/49	-7.02	1407.02
06/25/47	-3.45	1403.45	08/16/49	-6.94	1406.94
07/05/47	-3.36	1403.36	08/22/49	-6.89	1406.89
07/12/47	-3.24	1403.24	08/26/49	-6.81	1406.81
07/16/47	-3.24	1403.24	08/31/49	-6.77	1406.77

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl, ft) = 1400  
SI (ft.) = 0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/06/49	-6.67	1406.67	09/24/50	-14.95	1414.95
09/14/49	-6.57	1406.57	09/29/50	-14.93	1414.93
09/20/49	-6.47	1406.47	10/02/50	-14.95	1414.95
09/25/49	-6.42	1406.42	10/06/50	-14.90	1414.90
10/01/49	-6.42	1406.42	10/08/50	-14.93	1414.93
10/04/49	-6.47	1406.47	10/13/50	-14.90	1414.90
10/05/49	-6.42	1406.42	10/16/50	-14.90	1414.90
10/08/49	-6.42	1406.42	10/20/50	-14.88	1414.88
10/12/49	-6.42	1406.42	10/26/50	-14.84	1414.84
10/15/49	-6.42	1406.42	10/28/50	-14.90	1414.90
10/16/49	-6.42	1406.42	10/31/50	-14.85	1414.85
10/22/49	-6.52	1406.52	11/04/50	-14.80	1414.80
10/29/49	-6.52	1406.52	11/07/50	-14.80	1414.80
11/02/49	-6.53	1406.53	11/17/50	-14.83	1414.83
11/05/49	-6.52	1406.52	12/09/50	-14.88	1414.88
11/08/49	-6.52	1406.52			
11/11/49	-6.54	1406.54	03/19/51	-14.99	1414.99
11/13/49	-6.49	1406.49	04/02/51	-15.18	1415.18
11/18/49	-6.50	1406.50	04/10/51	-15.14	1415.14
11/30/49	-6.47	1406.47	04/13/51	-15.19	1415.19
12/01/49	-6.50	1406.50	04/15/51	-15.24	1415.24
			04/18/51	-15.29	1415.29
04/11/50	-6.62	1406.62	04/19/51	-15.29	1415.29
05/24/50	-11.21	1411.21	04/22/51	-15.35	1415.35
05/26/50	-11.67	1411.67	04/28/51	-15.40	1415.40
05/28/50	-12.47	1412.47	04/30/51	-15.44	1415.44
06/01/50	-12.52	1412.52	05/03/51	-15.47	1415.47
06/04/50	-12.97	1412.97	05/10/51	-15.41	1415.41
06/08/50	-13.07	1413.07	05/14/51	-15.35	1415.35
06/09/50	-12.97	1412.97	05/15/51	-15.40	1415.40
06/11/50	-13.17	1413.17	05/16/51	-15.37	1415.37
06/16/50	-13.46	1413.46	05/18/51	-15.35	1415.35
06/18/50	-13.62	1413.62	05/21/51	-15.36	1415.36
06/20/50	-13.63	1413.63	05/26/51	-15.40	1415.40
06/22/50	-13.72	1413.72	05/30/51	-15.21	1415.21
06/26/50	-14.00	1414.00	06/02/51	-15.24	1415.24
06/27/50	-14.05	1414.05	06/05/51	-15.21	1415.21
06/30/50	-14.18	1414.18	06/11/51	-15.33	1415.33
07/04/50	-14.24	1414.24	06/22/51	-15.35	1415.35
07/09/50	-14.35	1414.35	06/26/51	-15.35	1415.35
07/14/50	-14.38	1414.38	06/27/51	-15.30	1415.30
07/16/50	-14.40	1414.40	06/30/51	-15.20	1415.20
07/19/50	-14.45	1414.45	07/06/51	-15.18	1415.18
07/21/50	-14.50	1414.50	07/10/51	-15.08	1415.08
07/25/50	-14.58	1414.58	07/19/51	-14.92	1414.92
07/27/50	-14.60	1414.60	07/20/51	-14.95	1414.95
07/30/50	-14.65	1414.65	07/22/51	-14.94	1414.94
08/02/50	-14.63	1414.63	07/27/51	-14.84	1414.84
08/05/50	-14.65	1414.65	07/31/51	-14.86	1414.86
08/08/50	-14.70	1414.70	08/03/51	-14.80	1414.80
08/21/50	-14.75	1414.75	08/09/51	-14.74	1414.74
08/24/50	-14.80	1414.80	08/11/51	-14.73	1414.73
08/30/50	-14.85	1414.85	08/13/51	-14.73	1414.73
09/01/50	-14.85	1414.85	08/29/51	-14.54	1414.54
09/02/50	-14.83	1414.83	09/04/51	-14.64	1414.64
09/06/50	-14.80	1414.80	09/07/51	-14.68	1414.68
09/09/50	-14.82	1414.82	09/11/51	-14.65	1414.65
09/12/50	-14.86	1414.86	09/14/51	-14.65	1414.65
09/17/50	-14.93	1414.93	09/17/51	-14.57	1414.57
09/22/50	-14.94	1414.94	09/21/51	-14.48	1414.48

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl, ft)=1400  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/23/51	-14.50	1414.50	10/08/52	-12.78	1412.78
09/29/51	-14.40	1414.40	10/10/52	-12.76	1412.76
10/01/51	-14.45	1414.45	10/11/52	-12.78	1412.78
10/04/51	-14.47	1414.47	10/16/52	-12.75	1412.75
10/07/51	-14.46	1414.46	10/18/52	-12.70	1412.70
10/11/51	-14.43	1414.43	10/26/52	-12.75	1412.75
10/14/51	-14.46	1414.46	10/29/52	-12.64	1412.64
10/19/51	-14.36	1414.36	11/05/52	-12.65	1412.65
10/24/51	-14.35	1414.35	11/08/52	-12.60	1412.60
10/27/51	-14.36	1414.36	11/14/52	-12.59	1412.59
11/20/51	-14.30	1414.30	11/19/52	-12.60	1412.60
			11/22/52	-12.60	1412.60
01/20/52	-14.30	1414.30	12/02/52	-12.55	1412.55
02/29/52	-14.30	1414.30			
03/28/52	-14.35	1414.35	01/11/53	-12.46	1412.46
04/11/52	-14.50	1414.50	01/30/53	-12.45	1412.45
04/15/52	-14.46	1414.46	02/28/53	-12.48	1412.48
04/23/52	-14.50	1414.50	03/22/53	-12.80	1412.80
04/28/52	-14.42	1414.42	04/09/53	-12.58	1412.58
05/01/52	-14.39	1414.39	04/27/53	-12.77	1412.77
05/05/52	-14.38	1414.38	05/02/53	-12.79	1412.79
05/09/52	-14.35	1414.35	05/03/53	-12.80	1412.80
05/10/52	-14.30	1414.30	05/06/53	-12.79	1412.79
05/12/52	-14.30	1414.30	05/12/53	-12.80	1412.80
05/15/52	-14.25	1414.25	05/23/53	-12.77	1412.77
05/20/52	-14.20	1414.20	05/26/53	-12.76	1412.76
05/23/52	-14.21	1414.21	05/30/53	-12.87	1412.87
05/29/52	-14.10	1414.10	06/01/53	-12.84	1412.84
06/02/52	-14.10	1414.10	06/06/53	-12.87	1412.87
06/04/52	-14.08	1414.08	06/08/53	-12.75	1412.75
06/22/52	-13.82	1413.82	06/10/53	-12.83	1412.83
06/27/52	-13.78	1413.78	06/13/53	-12.90	1412.90
06/29/52	-13.88	1413.88	06/16/53	-12.93	1412.93
07/01/52	-13.88	1413.88	06/19/53	-12.70	1412.70
07/05/52	-14.00	1414.00	06/23/53	-12.97	1412.97
07/09/52	-13.88	1413.88	06/26/53	-13.00	1413.00
07/12/52	-13.88	1413.88	06/30/53	-12.92	1412.92
07/16/52	-13.83	1413.83	07/04/53	-12.96	1412.96
07/18/52	-13.82	1413.82	07/08/53	-12.96	1412.96
07/22/52	-13.80	1413.80	07/11/53	-12.92	1412.92
07/24/52	-13.76	1413.76	07/14/53	-13.00	1413.00
07/30/52	-13.65	1413.65	07/18/53	-12.86	1412.86
08/05/52	-13.55	1413.55	07/22/53	-12.78	1412.78
08/06/52	-13.50	1413.50	07/25/53	-12.72	1412.72
08/09/52	-13.50	1413.50	07/28/53	-12.68	1412.68
08/14/52	-13.40	1413.40	08/01/53	-12.58	1412.58
08/16/52	-13.34	1413.34	08/03/53	-12.52	1412.52
08/21/52	-13.34	1413.34	08/08/53	-12.52	1412.52
08/23/52	-13.32	1413.32	08/13/53	-12.40	1412.40
08/27/52	-13.34	1413.34	08/15/53	-12.40	1412.40
08/29/52	-13.30	1413.30	08/18/53	-12.32	1412.32
09/01/52	-13.24	1413.24	08/21/53	-12.26	1412.26
09/03/52	-13.20	1413.20	08/25/53	-12.22	1412.22
09/04/52	-13.19	1413.19	08/29/53	-12.20	1412.20
09/09/52	-13.14	1413.14	09/01/53	-12.18	1412.18
09/11/52	-13.10	1413.10	09/03/53	-12.20	1412.20
09/15/52	-13.08	1413.08	09/05/53	-12.20	1412.20
09/17/52	-13.05	1413.05	09/08/53	-12.08	1412.08
09/25/52	-12.98	1412.98	09/12/53	-12.03	1412.03
09/28/52	-12.95	1412.95	09/15/53	-11.99	1411.99

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl,ft)=1400

SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/19/53	-11.95	1411.95	08/03/54	-12.84	1412.84
09/23/53	-11.83	1411.83	08/04/54	-12.82	1412.82
09/26/53	-11.83	1411.83	08/06/54	-12.80	1412.80
09/30/53	-11.83	1411.83	08/10/54	-12.82	1412.82
10/03/53	-11.81	1411.81	08/13/54	-13.00	1413.00
10/07/53	-11.73	1411.73	08/17/54	-13.25	1413.25
10/10/53	-11.74	1411.74	08/19/54	-13.10	1413.10
10/14/53	-11.72	1411.72	08/24/54	-13.38	1413.38
10/17/53	-11.73	1411.73	08/28/54	-13.40	1413.40
10/20/53	-11.76	1411.76	08/30/54	-13.42	1413.42
10/24/53	-11.80	1411.80	09/01/54	-13.40	1413.40
10/28/53	-11.76	1411.76	09/03/54	-13.45	1413.45
10/30/53	-11.77	1411.77	09/07/54	-13.46	1413.46
10/31/53	-11.68	1411.68	09/10/54	-13.46	1413.46
11/04/53	-11.78	1411.78	09/14/54	-13.46	1413.46
11/07/53	-11.79	1411.79	09/17/54	-13.50	1413.50
11/10/53	-11.65	1411.65	09/21/54	-13.80	1413.80
11/12/53	-11.60	1411.60	09/24/54	-13.80	1413.80
11/18/53	-11.60	1411.60	09/28/54	-13.80	1413.80
11/20/53	-11.64	1411.64	09/30/54	-13.90	1413.90
11/24/53	-11.60	1411.60	10/01/54	-14.00	1414.00
11/27/53	-11.60	1411.60	10/04/54	-13.95	1413.95
12/01/53	-11.56	1411.56	10/05/54	-13.90	1413.90
			10/08/54	-14.00	1414.00
01/06/54	-11.88	1411.88	10/12/54	-14.10	1414.10
04/05/54	-11.96	1411.96	10/15/54	-14.10	1414.10
04/13/54	-11.85	1411.85	10/19/54	-14.10	1414.10
04/30/54	-11.72	1411.72	10/22/54	-14.15	1414.15
05/03/54	-11.75	1411.75	10/26/54	-14.15	1414.15
05/06/54	-11.70	1411.70	10/30/54	-14.15	1414.15
05/08/54	-11.75	1411.75	11/02/54	-14.15	1414.15
05/11/54	-11.73	1411.73	11/04/54	-14.17	1414.17
05/14/54	-11.73	1411.73	11/05/54	-14.20	1414.20
05/15/54	-11.70	1411.70	11/09/54	-14.25	1414.25
05/18/54	-11.74	1411.74	11/12/54	-14.25	1414.25
05/21/54	-11.62	1411.62	11/16/54	-14.30	1414.30
05/22/54	-11.68	1411.68	11/19/54	-14.32	1414.32
05/29/54	-11.75	1411.75	11/23/54	-14.32	1414.32
06/01/54	-11.73	1411.73	11/29/54	-14.37	1414.37
06/04/54	-11.72	1411.72	12/06/54	-14.36	1414.36
06/09/54	-12.33	1412.33	12/28/54	-14.35	1414.35
06/11/54	-12.24	1412.24			
06/17/54	-12.62	1412.62	01/24/55	-14.36	1414.36
06/22/54	-12.78	1412.78	03/01/55	-14.36	1414.36
06/23/54	-12.73	1412.73	03/30/55	-14.76	1414.76
06/26/54	-12.75	1412.75	04/01/55	-14.80	1414.80
06/27/54	-12.78	1412.78	04/05/55	-14.74	1414.74
07/01/54	-12.80	1412.80	04/07/55	-14.77	1414.77
07/03/54	-12.78	1412.78	04/15/55	-15.26	1415.26
07/05/54	-12.80	1412.80	04/19/55	-15.26	1415.26
07/06/54	-12.82	1412.82	04/20/55	-15.16	1415.16
07/07/54	-12.80	1412.80	04/22/55	-15.26	1415.26
07/09/54	-12.82	1412.82	04/26/55	-15.40	1415.40
07/12/54	-12.82	1412.82	04/29/55	-15.50	1415.50
07/15/54	-12.82	1412.82	05/02/55	-17.18	1417.18
07/19/54	-12.80	1412.80	05/03/55	-15.71	1415.71
07/23/54	-12.77	1412.77	05/04/55	-15.90	1415.90
07/27/54	-12.80	1412.80	05/06/55	-15.76	1415.76
07/30/54	-12.84	1412.84	05/10/55	-15.78	1415.78
08/01/54	-12.84	1412.84	05/13/55	-15.86	1415.86

153-064-18C L (Continued)

Devils Lake Stage

LS Elev (msl, ft)=1400

SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/17/55	-15.92	1415.92	03/26/56	-16.41	1416.41
05/20/55	-16.01	1416.01	04/12/56	-16.48	1416.48
05/24/55	-16.01	1416.01	04/23/56	-16.79	1416.79
05/27/55	-16.11	1416.11	05/08/56	-17.38	1417.38
05/30/55	-16.27	1416.27	05/10/56	-17.38	1417.38
06/01/55	-16.32	1416.32	05/14/56	-17.60	1417.60
06/04/55	-16.41	1416.41	05/15/56	-17.60	1417.60
06/08/55	-16.56	1416.56	05/18/56	-17.76	1417.76
06/11/55	-16.66	1416.66	05/19/56	-17.76	1417.76
06/15/55	-16.71	1416.71	05/22/56	-17.86	1417.86
06/18/55	-16.76	1416.76	05/25/56	-17.91	1417.91
06/20/55	-16.79	1416.79	05/30/56	-18.06	1418.06
06/24/55	-16.76	1416.76	06/06/56	-18.61	1418.61
06/25/55	-16.74	1416.74	06/08/56	-18.71	1418.71
06/26/55	-16.76	1416.76	06/09/56	-18.61	1418.61
06/30/55	-16.76	1416.76	06/11/56	-18.91	1418.91
07/05/55	-16.81	1416.81	06/14/56	-18.91	1418.91
07/09/55	-16.76	1416.76	06/18/56	-18.93	1418.93
07/12/55	-16.71	1416.71	06/20/56	-19.08	1419.08
07/15/55	-16.71	1416.71	06/26/56	-19.06	1419.06
07/19/55	-16.69	1416.69	06/28/56	-19.13	1419.13
07/23/55	-16.66	1416.66	06/29/56	-19.16	1419.16
07/26/55	-16.61	1416.61	07/02/56	-19.21	1419.21
07/28/55	-16.66	1416.66	07/05/56	-19.26	1419.26
08/02/55	-16.64	1416.64	07/10/56	-19.34	1419.34
08/05/55	-16.64	1416.64	07/11/56	-19.36	1419.36
08/09/55	-16.61	1416.61	07/14/56	-19.36	1419.36
08/11/55	-16.46	1416.46	07/17/56	-19.36	1419.36
08/12/55	-16.55	1416.55	07/19/56	-19.34	1419.34
08/16/55	-16.40	1416.40	07/20/56	-19.34	1419.34
08/19/55	-16.48	1416.48	07/25/56	-19.28	1419.28
08/24/55	-16.40	1416.40	07/28/56	-19.28	1419.28
08/26/55	-16.40	1416.40	08/01/56	-19.27	1419.27
08/31/55	-16.30	1416.30	08/04/56	-19.25	1419.25
09/03/55	-16.27	1416.27	08/07/56	-19.25	1419.25
09/07/55	-16.12	1416.12	08/11/56	-19.25	1419.25
09/08/55	-16.12	1416.12	08/14/56	-19.23	1419.23
09/12/55	-16.05	1416.05	08/18/56	-19.10	1419.10
09/16/55	-16.02	1416.02	08/20/56	-19.13	1419.13
09/21/55	-16.20	1416.20	08/21/56	-19.01	1419.01
09/28/55	-16.03	1416.03	08/24/56	-19.08	1419.08
09/30/55	-16.05	1416.05	08/28/56	-19.05	1419.05
10/04/55	-16.05	1416.05	09/01/56	-19.15	1419.15
10/05/55	-16.08	1416.08	09/04/56	-19.12	1419.12
10/07/55	-16.10	1416.10	09/07/56	-19.12	1419.12
10/11/55	-16.08	1416.08	09/11/56	-19.05	1419.05
10/14/55	-16.00	1416.00	09/15/56	-19.05	1419.05
10/18/55	-16.00	1416.00	09/17/56	-19.07	1419.07
10/21/55	-15.98	1415.98	09/19/56	-19.04	1419.04
10/24/55	-16.00	1416.00	09/21/56	-18.93	1418.93
10/26/55	-15.90	1415.90	09/24/56	-18.99	1418.99
10/31/55	-15.90	1415.90	09/25/56	-18.99	1418.99
11/01/55	-15.96	1415.96	09/29/56	-18.97	1418.97
11/10/55	-15.90	1415.90	10/02/56	-18.80	1418.80
11/17/55	-15.90	1415.90	10/09/56	-18.83	1418.83
11/30/55	-16.00	1416.00	10/12/56	-18.80	1418.80
12/28/55	-16.14	1416.14	10/17/56	-18.75	1418.75
01/31/56	-16.25	1416.25	10/20/56	-18.75	1418.75
02/27/56	-16.38	1416.38	10/21/56	-18.73	1418.73
			10/25/56	-18.73	1418.73

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl, ft) = 1400

SI (ft.) = 0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/30/56	-18.71	1418.71	10/08/57	-18.25	1418.25
10/31/56	-18.70	1418.70	10/12/57	-18.20	1418.20
11/04/56	-18.71	1418.71	10/15/57	-18.22	1418.22
11/08/56	-18.80	1418.80	10/18/57	-18.23	1418.23
11/14/56	-18.78	1418.78	10/22/57	-18.16	1418.16
11/17/56	-18.80	1418.80	10/23/57	-18.22	1418.22
11/27/56	-18.81	1418.81	10/28/57	-18.17	1418.17
12/27/56	-18.73	1418.73	11/01/57	-18.18	1418.18
			11/06/57	-18.15	1418.15
01/28/57	-18.42	1418.42	11/10/57	-18.15	1418.15
02/27/57	-18.55	1418.55	11/11/57	-18.13	1418.13
03/26/57	-18.41	1418.41	11/17/57	-18.15	1418.15
04/15/57	-18.59	1418.59	11/20/57	-18.10	1418.10
04/24/57	-18.57	1418.57	12/17/57	-18.06	1418.06
04/27/57	-18.65	1418.65			
04/29/57	-18.64	1418.64	01/01/58	-18.14	1418.14
05/03/57	-18.70	1418.70	01/28/58	-18.13	1418.13
05/05/57	-18.70	1418.70	02/26/58	-18.27	1418.27
05/07/57	-18.69	1418.69	03/05/58	-18.11	1418.11
05/08/57	-18.65	1418.65	03/12/58	-18.12	1418.12
05/15/57	-18.55	1418.55	03/19/58	-18.14	1418.14
05/18/57	-18.60	1418.60	03/25/58	-18.15	1418.15
05/22/57	-18.60	1418.60	03/27/58	-18.10	1418.10
05/25/57	-18.60	1418.60	04/01/58	-18.09	1418.09
05/26/57	-18.52	1418.52	04/22/58	-18.05	1418.05
05/28/57	-18.49	1418.49	04/24/58	-18.02	1418.02
05/31/57	-18.45	1418.45	05/02/58	-18.07	1418.07
06/03/57	-18.45	1418.45	05/06/58	-18.02	1418.02
06/08/57	-18.45	1418.45	05/10/58	-18.02	1418.02
06/13/57	-18.50	1418.50	05/14/58	-17.98	1417.98
06/25/57	-18.55	1418.55	05/15/58	-17.95	1417.95
06/26/57	-18.50	1418.50	05/20/58	-17.97	1417.97
06/28/57	-18.55	1418.55	05/24/58	-17.95	1417.95
07/03/57	-18.51	1418.51	05/27/58	-17.85	1417.85
07/06/57	-18.55	1418.55	05/30/58	-17.72	1417.72
07/13/57	-18.39	1418.39	06/04/58	-17.87	1417.87
07/17/57	-18.50	1418.50	06/07/58	-17.77	1417.77
07/18/57	-18.47	1418.47	06/11/58	-17.77	1417.77
07/20/57	-18.52	1418.52	06/14/58	-17.67	1417.67
07/25/57	-18.41	1418.41	06/18/58	-17.72	1417.72
07/26/57	-18.39	1418.39	06/23/58	-17.62	1417.62
07/27/57	-18.40	1418.40	06/25/58	-17.65	1417.65
07/30/57	-18.36	1418.36	06/27/58	-17.67	1417.67
08/03/57	-18.30	1418.30	06/29/58	-17.57	1417.57
08/07/57	-18.18	1418.18	07/05/58	-17.79	1417.79
08/08/57	-18.15	1418.15	07/07/58	-17.77	1417.77
08/15/57	-18.29	1418.29	07/10/58	-17.77	1417.77
08/17/57	-18.14	1418.14	07/15/58	-17.77	1417.77
08/22/57	-18.20	1418.20	07/18/58	-17.75	1417.75
08/27/57	-18.12	1418.12	07/22/58	-17.73	1417.73
08/30/57	-18.09	1418.09	07/23/58	-17.73	1417.73
09/04/57	-18.40	1418.40	07/26/58	-17.77	1417.77
09/06/57	-18.41	1418.41	07/28/58	-17.73	1417.73
09/11/57	-18.40	1418.40	08/01/58	-17.77	1417.77
09/16/57	-18.33	1418.33	08/05/58	-17.62	1417.62
09/20/57	-18.30	1418.30	08/08/58	-17.74	1417.74
09/24/57	-18.26	1418.26	08/13/58	-17.67	1417.67
09/26/57	-18.22	1418.22	08/15/58	-17.62	1417.62
10/03/57	-18.20	1418.20	08/18/58	-17.62	1417.62
10/05/57	-18.20	1418.20	08/22/58	-17.57	1417.57

153-064-18C L (Continued)

Devils Lake Stage

LS Elev (msl, ft) = 1400

SI (ft.) = 0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/24/58	-17.61	1417.61	07/18/59	-16.29	1416.29
08/29/58	-17.30	1417.30	07/22/59	-16.21	1416.21
08/30/58	-17.38	1417.38	07/25/59	-16.17	1416.17
09/02/58	-17.35	1417.35	07/27/59	-16.07	1416.07
09/03/58	-17.08	1417.08	07/31/59	-16.17	1416.17
09/06/58	-17.34	1417.34	08/04/59	-16.17	1416.17
09/15/58	-17.10	1417.10	08/08/59	-16.07	1416.07
09/18/58	-17.00	1417.00	08/11/59	-16.01	1416.01
09/24/58	-17.10	1417.10	08/12/59	-16.01	1416.01
09/27/58	-16.85	1416.85	08/15/59	-15.91	1415.91
09/30/58	-16.86	1416.86	08/19/59	-15.81	1415.81
10/01/58	-17.00	1417.00	08/22/59	-16.01	1416.01
10/04/58	-16.85	1416.85	08/25/59	-15.91	1415.91
10/08/58	-16.65	1416.65	08/28/59	-15.86	1415.86
10/11/58	-16.65	1416.65	09/01/59	-15.81	1415.81
10/15/58	-16.64	1416.64	09/07/59	-15.71	1415.71
10/18/58	-16.67	1416.67	09/10/59	-15.66	1415.66
10/21/58	-16.63	1416.63	09/13/59	-15.61	1415.61
10/24/58	-16.70	1416.70	09/17/59	-15.51	1415.51
10/28/58	-16.66	1416.66	09/21/59	-15.51	1415.51
10/29/58	-16.70	1416.70	09/22/59	-15.53	1415.53
10/31/58	-16.65	1416.65	09/25/59	-15.46	1415.46
11/05/58	-16.65	1416.65	10/01/59	-15.50	1415.50
11/08/58	-16.78	1416.78	10/03/59	-15.50	1415.50
11/13/58	-16.75	1416.75	10/05/59	-15.50	1415.50
11/15/58	-16.70	1416.70	10/10/59	-15.65	1415.65
11/18/58	-16.85	1416.85	10/13/59	-15.60	1415.60
11/20/58	-16.68	1416.68	10/17/59	-15.54	1415.54
11/22/58	-16.75	1416.75	10/20/59	-15.55	1415.55
12/29/58	-17.10	1417.10	10/21/59	-15.54	1415.54
			10/24/59	-15.60	1415.60
01/16/59	-17.04	1417.04	10/27/59	-15.55	1415.55
02/17/59	-17.10	1417.10	10/30/59	-15.60	1415.60
03/15/59	-16.60	1416.60	11/24/59	-15.32	1415.32
04/08/59	-16.79	1416.79	12/08/59	-15.34	1415.34
04/16/59	-16.66	1416.66	12/22/59	-15.31	1415.31
04/19/59	-16.66	1416.66			
04/20/59	-16.67	1416.67	01/12/60	-15.59	1415.59
04/23/59	-16.63	1416.63	02/03/60	-15.66	1415.66
04/28/59	-16.62	1416.62	03/01/60	-15.70	1415.70
05/05/59	-16.67	1416.67	03/22/60	-15.71	1415.71
05/09/59	-16.67	1416.67	03/28/60	-15.74	1415.74
05/13/59	-16.62	1416.62	03/30/60	-15.70	1415.70
05/15/59	-16.62	1416.62	04/05/60	-15.64	1415.64
05/18/59	-16.63	1416.63	04/10/60	-15.36	1415.36
05/23/59	-16.63	1416.63	04/28/60	-15.98	1415.98
05/26/59	-16.64	1416.64	04/29/60	-16.10	1416.10
05/29/59	-16.65	1416.65	05/01/60	-16.00	1416.00
06/04/59	-16.69	1416.69	05/05/60	-15.90	1415.90
06/09/59	-16.60	1416.60	05/07/60	-15.94	1415.94
06/15/59	-16.48	1416.48	05/10/60	-15.92	1415.92
06/18/59	-16.51	1416.51	05/12/60	-15.88	1415.88
06/24/59	-16.21	1416.21	05/14/60	-15.89	1415.89
06/27/59	-16.61	1416.61	05/16/60	-15.86	1415.86
07/02/59	-16.48	1416.48	05/19/60	-16.07	1416.07
07/03/59	-16.43	1416.43	05/21/60	-16.00	1416.00
07/04/59	-16.51	1416.51	05/25/60	-16.07	1416.07
07/09/59	-16.35	1416.35	05/28/60	-16.15	1416.15
07/11/59	-16.31	1416.31	06/01/60	-16.14	1416.14
07/15/59	-16.31	1416.31	06/04/60	-16.10	1416.10

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl, ft)=1400  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/06/60	-16.05	1416.05	04/18/61	-14.91	1414.91
06/08/60	-16.00	1416.00	04/19/61	-14.88	1414.88
06/09/60	-16.15	1416.15	04/22/61	-14.82	1414.82
06/12/60	-16.18	1416.18	04/24/61	-14.90	1414.90
06/15/60	-16.10	1416.10	05/01/61	-14.80	1414.80
06/18/60	-16.08	1416.08	05/05/61	-14.68	1414.68
06/23/60	-16.03	1416.03	05/10/61	-14.75	1414.75
06/26/60	-16.00	1416.00	05/13/61	-14.78	1414.78
06/29/60	-15.94	1415.94	05/16/61	-14.74	1414.74
07/01/60	-15.93	1415.93	05/18/61	-14.72	1414.72
07/04/60	-15.92	1415.92	05/20/61	-14.73	1414.73
07/07/60	-15.90	1415.90	05/24/61	-14.67	1414.67
07/12/60	-15.94	1415.94	05/27/61	-14.61	1414.61
07/15/60	-15.90	1415.90	05/30/61	-14.53	1414.53
07/18/60	-15.87	1415.87	06/03/61	-14.51	1414.51
07/22/60	-15.78	1415.78	06/09/61	-14.46	1414.46
07/25/60	-15.74	1415.74	06/13/61	-14.36	1414.36
07/27/60	-15.68	1415.68	06/14/61	-14.32	1414.32
08/01/60	-15.60	1415.60	06/17/61	-14.32	1414.32
08/05/60	-15.60	1415.60	06/22/61	-13.66	1413.66
08/08/60	-15.63	1415.63	06/28/61	-14.16	1414.16
08/09/60	-15.53	1415.53	07/11/61	-13.89	1413.89
08/12/60	-15.52	1415.52	07/15/61	-13.95	1413.95
08/17/60	-15.42	1415.42	07/18/61	-13.95	1413.95
08/19/60	-15.40	1415.40	07/22/61	-13.95	1413.95
08/23/60	-15.32	1415.32	07/25/61	-13.92	1413.92
08/24/60	-15.40	1415.40	07/26/61	-13.92	1413.92
08/26/60	-15.44	1415.44	07/28/61	-13.85	1413.85
09/01/60	-15.37	1415.37	08/01/61	-13.92	1413.92
09/03/60	-15.35	1415.35	08/04/61	-13.90	1413.90
09/06/60	-15.32	1415.32	08/08/61	-13.82	1413.82
09/10/60	-15.31	1415.31	08/12/61	-13.75	1413.75
09/14/60	-15.18	1415.18	08/16/61	-13.68	1413.68
09/17/60	-15.12	1415.12	08/19/61	-13.57	1413.57
09/20/60	-15.10	1415.10	08/26/61	-13.50	1413.50
09/24/60	-15.08	1415.08	08/29/61	-13.50	1413.50
09/26/60	-15.03	1415.03	09/05/61	-13.33	1413.33
09/28/60	-14.99	1414.99	09/09/61	-13.37	1413.37
09/30/60	-14.90	1414.90	09/13/61	-13.44	1413.44
10/04/60	-14.90	1414.90	09/14/61	-13.46	1413.46
10/08/60	-14.86	1414.86	09/15/61	-13.45	1413.45
10/10/60	-14.90	1414.90	09/20/61	-13.50	1413.50
10/14/60	-14.88	1414.88	09/23/61	-13.48	1413.48
10/18/60	-14.80	1414.80	09/27/61	-13.50	1413.50
10/21/60	-14.78	1414.78	10/01/61	-13.45	1413.45
10/27/60	-14.76	1414.76	10/03/61	-13.43	1413.43
10/29/60	-14.79	1414.79	10/07/61	-13.42	1413.42
11/02/60	-14.80	1414.80	10/12/61	-13.40	1413.40
11/05/60	-14.84	1414.84	10/15/61	-13.25	1413.25
11/12/60	-14.70	1414.70	10/20/61	-13.30	1413.30
11/16/60	-14.70	1414.70	10/25/61	-13.31	1413.31
11/19/60	-14.68	1414.68	11/01/61	-13.22	1413.22
11/21/60	-14.70	1414.70	11/07/61	-13.30	1413.30
11/26/60	-14.66	1414.66	11/28/61	-13.16	1413.16
12/07/60	-14.58	1414.58	12/12/61	-13.10	1413.10
01/18/61	-14.78	1414.78	01/10/62	-13.22	1413.22
02/14/61	-14.77	1414.77	01/22/62	-13.25	1413.25
03/03/61	-14.82	1414.82	02/06/62	-13.24	1413.24
03/15/61	-14.82	1414.82	02/19/62	-13.00	1413.00

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl,ft)=1400  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
03/21/62	-13.29	1413.29	02/05/63	-11.97	1411.97
04/11/62	-13.67	1413.67	02/19/63	-13.08	1413.08
04/26/62	-13.60	1413.60	03/05/63	-13.09	1413.09
05/08/62	-13.61	1413.61	04/03/63	-13.06	1413.06
05/10/62	-13.60	1413.60	04/12/63	-13.10	1413.10
05/12/62	-13.68	1413.68	04/23/63	-13.16	1413.16
05/16/62	-13.68	1413.68	05/04/63	-13.18	1413.18
05/19/62	-13.72	1413.72	05/11/63	-13.19	1413.19
05/23/62	-13.74	1413.74	05/23/63	-13.19	1413.19
05/25/62	-13.98	1413.98	05/29/63	-13.13	1413.13
05/26/62	-13.80	1413.80	06/01/63	-13.11	1413.11
06/01/62	-14.08	1414.08	06/07/63	-13.16	1413.16
06/06/62	-14.12	1414.12	06/30/63	-13.12	1413.12
06/09/62	-14.13	1414.13	07/31/63	-13.65	1413.65
06/12/62	-14.10	1414.10	08/31/63	-12.17	1412.17
06/13/62	-14.30	1414.30	09/30/63	-11.85	1411.85
06/16/62	-14.28	1414.28	10/01/63	-11.84	1411.84
06/20/62	-14.30	1414.30	10/31/63	-11.54	1411.54
06/23/62	-14.27	1414.27	11/02/63	-11.57	1411.57
06/26/62	-14.13	1414.13	11/30/63	-11.40	1411.40
07/02/62	-14.04	1414.04	12/04/63	-11.38	1411.38
07/06/62	-14.12	1414.12	12/24/63	-11.50	1411.50
07/10/62	-14.10	1414.10			
07/11/62	-14.09	1414.09	01/18/64	-11.46	1411.46
07/14/62	-13.98	1413.98	01/24/64	-11.52	1411.52
07/19/62	-14.00	1414.00	02/01/64	-11.51	1411.51
07/21/62	-13.75	1413.75	02/29/64	-11.57	1411.57
07/26/62	-13.87	1413.87	03/05/64	-11.54	1411.54
07/28/62	-13.78	1413.78	03/22/64	-11.70	1411.70
07/31/62	-13.78	1413.78	05/21/64	-11.73	1411.73
08/04/62	-13.73	1413.73	05/30/64	-11.44	1411.44
08/07/62	-13.75	1413.75	06/09/64	-11.28	1411.28
08/10/62	-13.70	1413.70	06/19/64	-11.83	1411.83
08/14/62	-13.85	1413.85	07/01/64	-11.72	1411.72
08/18/62	-13.80	1413.80	07/28/64	-11.30	1411.30
08/22/62	-13.74	1413.74	08/01/64	-11.28	1411.28
08/25/62	-13.70	1413.70	08/11/64	-10.97	1410.97
08/29/62	-13.62	1413.62	09/03/64	-11.25	1411.25
09/01/62	-13.57	1413.57	09/25/64	-10.88	1410.88
09/04/62	-13.54	1413.54	10/02/64	-11.10	1411.10
09/07/62	-13.47	1413.47	10/31/64	-10.85	1410.85
09/10/62	-13.50	1413.50	11/01/64	-10.89	1410.89
09/15/62	-13.42	1413.42	11/14/64	-10.79	1410.79
09/19/62	-13.38	1413.38	12/14/64	-10.81	1410.81
09/22/62	-13.32	1413.32	12/31/64	-10.94	1410.94
09/25/62	-13.34	1413.34			
09/26/62	-13.28	1413.28	01/01/65	-10.95	1410.95
09/30/62	-13.24	1413.24	01/05/65	-10.97	1410.97
10/03/62	-13.26	1413.26	02/01/65	-10.95	1410.95
10/21/62	-13.14	1413.14	02/02/65	-10.96	1410.96
10/28/62	-13.10	1413.10	04/17/65	-11.08	1411.08
11/02/62	-13.10	1413.10	04/30/65	-11.15	1411.15
11/12/62	-13.12	1413.12	05/01/65	-11.17	1411.17
11/17/62	-13.10	1413.10	05/28/65	-11.45	1411.45
12/04/62	-12.84	1412.84	06/04/65	-11.60	1411.60
12/19/62	-12.91	1412.91	06/29/65	-11.23	1411.23
			07/10/65	-11.23	1411.23
01/03/63	-12.83	1412.83	07/24/65	-11.50	1411.50
01/22/63	-12.79	1412.79	08/05/65	-11.39	1411.39
01/24/63	-11.52	1411.52	08/27/65	-11.07	1411.07

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl, ft)=1400  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/12/65	-11.04	1411.04	01/21/68	-11.25	1411.25
09/23/65	-11.22	1411.22	02/12/68	-11.12	1411.12
10/07/65	-11.10	1411.10	02/28/68	-11.19	1411.19
10/09/65	-11.29	1411.29	03/01/68	-11.19	1411.19
11/01/65	-11.19	1411.19	03/29/68	-11.38	1411.38
11/12/65	-11.07	1411.07	04/02/68	-11.33	1411.33
12/01/65	-11.17	1411.17	04/25/68	-11.57	1411.57
12/30/65	-11.25	1411.25	05/01/68	-11.55	1411.55
			05/15/68	-11.63	1411.63
01/14/66	-11.21	1411.21	06/13/68	-11.68	1411.68
01/31/66	-11.26	1411.26	06/29/68	-11.44	1411.44
02/01/66	-11.25	1411.25	07/05/68	-11.46	1411.46
02/12/66	-11.34	1411.34	07/31/68	-11.12	1411.12
03/02/66	-11.30	1411.30	08/01/68	-11.10	1411.10
03/14/66	-11.45	1411.45	08/20/68	-10.90	1410.90
04/03/66	-11.96	1411.96	09/03/68	-11.02	1411.02
04/29/66	-12.56	1412.56	09/29/68	-10.89	1410.89
05/08/66	-12.54	1412.54	10/04/68	-10.96	1410.96
05/25/66	-12.74	1412.74	10/31/68	-10.75	1410.75
06/03/66	-12.59	1412.59	11/05/68	-10.69	1410.69
06/26/66	-12.83	1412.83	11/23/68	-10.78	1410.78
07/08/66	-12.92	1412.92	12/03/68	-10.79	1410.79
07/31/66	-12.72	1412.72	12/15/68	-10.74	1410.74
08/02/66	-12.74	1412.74			
08/31/66	-12.50	1412.50	04/09/69	-11.21	1411.21
09/01/66	-12.56	1412.56	04/29/69	-12.25	1412.25
09/28/66	-12.14	1412.14	05/01/69	-12.25	1412.25
10/01/66	-12.16	1412.16	05/31/69	-14.57	1414.57
10/31/66	-11.87	1411.87	06/01/69	-14.60	1414.60
11/05/66	-11.98	1411.98	06/30/69	-15.79	1415.79
11/29/66	-11.89	1411.89	07/01/69	-15.80	1415.80
12/02/66	-11.90	1411.90	07/31/69	-16.56	1416.56
12/27/66	-11.93	1411.93	08/12/69	-16.52	1416.52
			08/18/69	-16.73	1416.73
01/01/67	-11.92	1411.92	09/04/69	-16.57	1416.57
01/31/67	-12.04	1412.04	09/14/69	-16.67	1416.67
02/22/67	-12.08	1412.08	10/15/69	-16.65	1416.65
02/27/67	-12.03	1412.03	10/28/69	-16.76	1416.76
03/06/67	-12.06	1412.06	12/21/69	-16.81	1416.81
03/31/67	-12.20	1412.20	12/28/69	-16.83	1416.83
04/04/67	-12.00	1412.00			
04/27/67	-12.61	1412.61	01/01/70	-16.83	1416.83
05/01/67	-12.54	1412.54	01/29/70	-16.96	1416.96
05/17/67	-12.85	1412.85	02/02/70	-16.93	1416.93
06/02/67	-12.77	1412.77	02/11/70	-16.98	1416.98
06/30/67	-12.61	1412.61	03/01/70	-16.98	1416.98
07/01/67	-12.58	1412.58	03/30/70	-17.06	1417.06
07/31/67	-12.13	1412.13	04/01/70	-17.06	1417.06
08/01/67	-12.08	1412.08	04/30/70	-17.74	1417.74
08/29/67	-11.62	1411.62	05/01/70	-17.67	1417.67
09/01/67	-11.62	1411.62	05/31/70	-18.46	1418.46
09/29/67	-11.24	1411.24	06/01/70	-18.48	1418.48
10/16/67	-11.27	1411.27	06/28/70	-19.26	1419.26
10/26/67	-11.14	1411.14	07/08/70	-19.18	1419.18
11/01/67	-11.16	1411.16	07/31/70	-19.46	1419.46
11/17/67	-11.07	1411.07	08/12/70	-19.45	1419.45
12/08/67	-11.07	1411.07	08/26/70	-19.28	1419.28
12/23/67	-11.18	1411.18	09/09/70	-19.33	1419.33
			09/28/70	-19.13	1419.13
01/04/68	-11.15	1411.15	10/01/70	-19.16	1419.16

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl, ft)=1400  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/23/70	-18.90	1418.90	03/01/73	-20.41	1420.41
11/04/70	-18.95	1418.95	03/31/73	-20.59	1420.59
11/21/70	-18.89	1418.89	04/01/73	-20.60	1420.60
12/01/70	-18.93	1418.93	04/12/73	-20.57	1420.57
12/14/70	-18.91	1418.91	05/11/73	-20.47	1420.47
			05/20/73	-20.34	1420.34
01/08/71	-18.87	1418.87	06/03/73	-20.39	1420.39
01/21/71	-18.93	1418.93	06/29/73	-20.19	1420.19
02/04/71	-18.93	1418.93	07/02/73	-20.23	1420.23
02/28/71	-18.85	1418.85	07/30/73	-19.64	1419.64
03/02/71	-18.83	1418.83	08/01/73	-19.62	1419.62
03/28/71	-18.91	1418.91	08/14/73	-19.53	1419.53
04/05/71	-18.89	1418.89	09/23/73	-19.16	1419.16
04/30/71	-19.62	1419.62	09/25/73	-19.32	1419.32
05/01/71	-19.62	1419.62	10/07/73	-19.22	1419.22
05/28/71	-20.14	1420.14	10/12/73	-19.37	1419.37
06/01/71	-20.17	1420.17	11/01/73	-19.21	1419.21
06/30/71	-20.91	1420.91	11/18/73	-19.14	1419.14
07/01/71	-20.90	1420.90	12/01/73	-19.18	1419.18
07/12/71	-21.04	1421.04	12/17/73	-19.23	1419.23
08/01/71	-20.90	1420.90			
08/31/71	-20.72	1420.72	01/11/74	-19.20	1419.20
09/01/71	-20.74	1420.74	01/30/74	-19.26	1419.26
09/06/71	-20.97	1420.97	02/01/74	-19.27	1419.27
10/01/71	-20.85	1420.85	02/21/74	-19.33	1419.33
10/31/71	-21.13	1421.13	03/01/74	-19.33	1419.33
11/05/71	-21.22	1421.22	03/29/74	-19.37	1419.37
11/07/71	-21.05	1421.05	04/04/74	-19.37	1419.37
12/15/71	-21.14	1421.14	04/30/74	-20.13	1420.13
12/31/71	-21.03	1421.03	05/01/74	-20.13	1420.13
			05/31/74	-22.10	1422.10
01/01/72	-21.03	1421.03	06/01/74	-22.22	1422.22
01/29/72	-20.90	1420.90	06/29/74	-23.57	1423.57
02/03/72	-20.89	1420.89	07/01/74	-23.57	1423.57
02/26/72	-20.82	1420.82	07/25/74	-24.09	1424.09
03/13/72	-20.83	1420.83	08/01/74	-23.97	1423.97
03/31/72	-20.99	1420.99	08/31/74	-23.77	1423.77
04/01/72	-21.00	1421.00	09/01/74	-23.74	1423.74
04/30/72	-21.73	1421.73	09/30/74	-23.22	1423.22
05/01/72	-21.73	1421.73	10/01/74	-23.19	1423.19
05/27/72	-22.26	1422.26	10/31/74	-22.75	1422.75
06/01/72	-22.26	1422.26	11/01/74	-22.82	1422.82
06/30/72	-21.88	1421.88	11/02/74	-22.90	1422.90
07/01/72	-21.85	1421.85	12/13/74	-22.84	1422.84
07/31/72	-21.35	1421.35	12/23/74	-22.90	1422.90
08/01/72	-21.33	1421.33			
08/31/72	-21.06	1421.06	01/09/75	-22.92	1422.92
09/01/72	-20.98	1420.98	01/13/75	-22.88	1422.88
09/23/72	-20.62	1420.62	02/08/75	-22.89	1422.89
10/07/72	-20.64	1420.64	02/17/75	-22.92	1422.92
10/26/72	-20.43	1420.43	03/23/75	-22.85	1422.85
11/06/72	-20.52	1420.52	03/28/75	-22.93	1422.93
11/21/72	-20.46	1420.46	04/06/75	-22.90	1422.90
12/01/72	-20.47	1420.47	04/30/75	-23.78	1423.78
12/23/72	-20.41	1420.41	05/01/75	-23.85	1423.85
			05/25/75	-24.55	1424.55
01/17/73	-20.49	1420.49	06/03/75	-24.50	1424.50
01/28/73	-20.45	1420.45	06/23/75	-24.73	1424.73
02/02/73	-20.46	1420.46	07/01/75	-24.81	1424.81
02/26/73	-20.40	1420.40	07/22/75	-24.55	1424.55

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl, ft) = 1400  
 SI (ft.) = 0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/15/75	-24.15	1424.15	03/01/78	-21.91	1421.91
08/28/75	-23.84	1423.84	03/31/78	-22.01	1422.01
09/01/75	-23.96	1423.96	04/01/78	-22.01	1422.01
09/28/75	-23.63	1423.63	04/27/78	-22.98	1422.98
11/05/75	-23.46	1423.46	05/07/78	-22.89	1422.89
11/11/75	-23.27	1423.27	05/26/78	-23.30	1423.30
12/03/75	-23.35	1423.35	06/05/78	-23.40	1423.40
12/21/75	-23.45	1423.45	06/22/78	-22.76	1422.76
			07/01/78	-22.81	1422.81
01/03/76	-23.37	1423.37	07/28/78	-23.39	1423.39
01/27/76	-23.50	1423.50	08/01/78	-23.26	1423.26
02/01/76	-23.43	1423.43	08/23/78	-22.61	1422.61
02/27/76	-23.55	1423.55	09/14/78	-23.16	1423.16
03/01/76	-23.50	1423.50	09/28/78	-22.48	1422.48
03/31/76	-23.78	1423.78	10/03/78	-22.44	1422.44
04/01/76	-23.78	1423.78	10/31/78	-22.23	1422.23
04/30/76	-24.64	1424.64	11/05/78	-22.28	1422.28
05/01/76	-24.50	1424.50	11/10/78	-21.98	1421.98
05/26/76	-24.94	1424.94	12/04/78	-22.12	1422.12
06/05/76	-24.78	1424.78	12/07/78	-22.08	1422.08
06/11/76	-25.04	1425.04			
07/01/76	-24.88	1424.88	01/10/79	-22.08	1422.08
07/31/76	-24.23	1424.23	01/31/79	-22.13	1422.13
08/01/76	-24.23	1424.23	02/02/79	-22.13	1422.13
08/31/76	-23.66	1423.66	02/26/79	-22.29	1422.29
09/03/76	-23.75	1423.75	03/01/79	-22.29	1422.29
09/09/76	-23.54	1423.54	03/30/79	-22.45	1422.45
10/14/76	-23.28	1423.28	04/02/79	-22.44	1422.44
10/25/76	-22.86	1422.86	04/30/79	-23.91	1423.91
11/02/76	-23.03	1423.03	05/01/79	-24.09	1424.09
11/27/76	-22.73	1422.73	05/30/79	-26.47	1426.47
			06/09/79	-26.33	1426.33
01/12/77	-22.73	1422.73	06/30/79	-26.89	1426.89
01/22/77	-22.82	1422.82	07/04/79	-26.95	1426.95
02/15/77	-22.76	1422.76	07/30/79	-26.59	1426.59
02/26/77	-22.85	1422.85	08/01/79	-26.59	1426.59
03/02/77	-22.81	1422.81	08/15/79	-26.34	1426.34
03/27/77	-22.90	1422.90	09/01/79	-26.47	1426.47
04/17/77	-22.96	1422.96	09/22/79	-26.14	1426.14
04/27/77	-22.80	1422.80	10/01/79	-26.12	1426.12
05/05/77	-23.04	1423.04	10/31/79	-25.86	1425.86
05/24/77	-22.67	1422.67	11/01/79	-25.89	1425.89
06/01/77	-22.77	1422.77	11/07/79	-25.84	1425.84
06/27/77	-22.31	1422.31	12/03/79	-25.88	1425.88
07/06/77	-22.63	1422.63	12/16/79	-25.83	1425.83
07/29/77	-22.23	1422.23			
08/04/77	-22.24	1422.24	01/02/80	-25.82	1425.82
08/25/77	-21.84	1421.84	01/31/80	-25.90	1425.90
09/09/77	-22.12	1422.12	02/01/80	-25.85	1425.85
09/23/77	-21.71	1421.71	02/22/80	-25.88	1425.88
10/17/77	-22.01	1422.01	03/05/80	-25.85	1425.85
10/28/77	-21.78	1421.78	03/27/80	-25.90	1425.90
11/20/77	-21.93	1421.93	04/01/80	-25.91	1425.91
12/03/77	-21.78	1421.78	04/30/80	-26.05	1426.05
12/18/77	-21.88	1421.88	05/01/80	-26.04	1426.04
			05/25/80	-25.78	1425.78
01/01/78	-21.86	1421.86	06/05/80	-25.92	1425.92
01/22/78	-21.91	1421.91	06/30/80	-25.58	1425.58
02/18/78	-21.87	1421.87	07/07/80	-25.60	1425.60
02/23/78	-21.94	1421.94	07/29/80	-25.37	1425.37

153-064-18C L (Continued)

## Devils Lake Stage

LS Elev (msl, ft)=1400

SL (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/16/80	-25.23	1425.23	02/26/83	-26.80	1426.80
08/21/80	-25.46	1425.46	03/01/83	-26.79	1426.79
09/11/80	-25.26	1425.26	03/31/83	-27.17	1427.17
09/15/80	-25.44	1425.44	04/26/83	-27.83	1427.83
10/01/80	-25.38	1425.38	05/01/83	-27.82	1427.82
10/13/80	-25.15	1425.15	05/27/83	-28.07	1428.07
11/01/80	-25.29	1425.29	06/18/83	-27.92	1427.92
11/28/80	-25.37	1425.37	06/22/83	-28.10	1428.10
12/19/80	-25.29	1425.29	07/03/83	-28.07	1428.07
12/27/80	-25.36	1425.36	07/31/83	-27.75	1427.75
			08/01/83	-27.73	1427.73
01/02/81	-25.30	1425.30	08/23/83	-27.26	1427.26
01/26/81	-25.38	1425.38	09/18/83	-27.41	1427.41
02/10/81	-25.24	1425.24	09/30/83	-27.12	1427.12
02/12/81	-25.61	1425.61	10/05/83	-27.28	1427.28
04/19/81	-25.57	1425.57	10/18/83	-27.07	1427.07
04/30/81	-25.72	1425.72	11/05/83	-27.13	1427.13
05/01/81	-25.70	1425.70	11/26/83	-27.00	1427.00
05/23/81	-25.45	1425.45	12/08/83	-27.03	1427.03
06/01/81	-25.62	1425.62	12/13/83	-27.08	1427.08
06/24/81	-25.91	1425.91			
07/02/81	-25.88	1425.88	01/10/84	-27.06	1427.06
07/29/81	-25.61	1425.61	01/31/84	-27.17	1427.17
08/01/81	-25.65	1425.65	02/05/84	-27.12	1427.12
08/19/81	-25.47	1425.47	02/25/84	-27.20	1427.20
10/13/81	-25.38	1425.38	03/06/84	-27.21	1427.21
10/27/81	-25.20	1425.20	03/31/84	-27.43	1427.43
11/05/81	-25.30	1425.30	04/01/84	-27.18	1427.18
11/18/81	-25.14	1425.14	04/28/84	-27.89	1427.89
12/06/81	-25.17	1425.17	05/17/84	-27.83	1427.83
12/17/81	-25.12	1425.12	05/31/84	-27.52	1427.52
			06/04/84	-27.44	1427.44
01/01/82	-25.13	1425.13	06/17/84	-27.64	1427.64
01/27/82	-25.20	1425.20	07/02/84	-27.51	1427.51
02/03/82	-25.16	1425.16	07/29/84	-27.19	1427.19
02/18/82	-25.22	1425.22	08/01/84	-27.18	1427.18
03/02/82	-25.19	1425.19	08/31/84	-26.54	1426.54
03/31/82	-25.40	1425.40	09/02/84	-26.54	1426.54
04/01/82	-25.40	1425.40	09/30/84	-26.21	1426.21
04/29/82	-25.76	1425.76	10/04/84	-26.19	1426.19
05/08/82	-25.73	1425.73	10/16/84	-26.48	1426.48
05/29/82	-26.36	1426.36	11/01/84	-26.38	1426.38
06/02/82	-26.25	1426.25	11/02/84	-26.25	1426.25
06/29/82	-26.60	1426.60	12/05/84	-26.32	1426.32
07/01/82	-26.60	1426.60	12/20/84	-26.38	1426.38
07/24/82	-26.94	1426.94	01/19/85	-26.35	1426.35
08/02/82	-26.88	1426.88	01/24/85	-26.41	1426.41
08/30/82	-26.55	1426.55	02/01/85	-26.37	1426.37
09/01/82	-26.59	1426.59	02/27/85	-26.44	1426.44
09/27/82	-26.21	1426.21	03/03/85	-26.41	1426.41
10/05/82	-26.23	1426.23	03/31/85	-26.61	1426.61
10/29/82	-26.65	1426.65	04/01/85	-26.61	1426.61
11/05/82	-26.53	1426.53	04/20/85	-26.81	1426.81
11/15/82	-26.65	1426.65	05/12/85	-26.80	1426.80
12/01/82	-26.62	1426.62	05/28/85	-26.54	1426.54
12/23/82	-26.70	1426.70	06/08/85	-26.72	1426.72
			06/24/85	-26.49	1426.49
01/02/83	-26.68	1426.68	07/03/85	-26.56	1426.56
01/09/83	-26.78	1426.78	07/31/85	-26.11	1426.11
02/03/83	-26.73	1426.73			

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl, ft)=1400  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/11/85	-25.92	1425.92	11/01/86	-26.45	1426.45
08/13/85	-26.20	1426.20	11/02/86	-26.43	1426.43
09/03/85	-26.21	1426.21	11/03/86	-26.40	1426.40
09/29/85	-25.89	1425.89	11/04/86	-26.46	1426.46
10/07/85	-25.89	1425.89	11/05/86	-26.45	1426.45
10/23/85	-26.24	1426.24	11/06/86	-26.41	1426.41
11/05/85	-26.21	1426.21	11/07/86	-26.37	1426.37
11/08/85	-26.03	1426.03	11/08/86	-26.67	1426.67
12/01/85	-26.15	1426.15	11/09/86	-26.72	1426.72
12/22/85	-26.23	1426.23	11/10/86	-26.64	1426.64
			11/11/86	-26.62	1426.62
01/06/86	-26.19	1426.19	11/12/86	-26.62	1426.62
01/09/86	-26.24	1426.24	11/13/86	-26.60	1426.60
02/09/86	-26.21	1426.21	11/14/86	-26.58	1426.58
02/24/86	-26.28	1426.28	11/15/86	-26.58	1426.58
03/06/86	-26.23	1426.23	12/04/86	-26.61	1426.61
03/31/86	-26.51	1426.51	12/05/86	-26.60	1426.60
04/02/86	-26.46	1426.46	12/06/86	-26.60	1426.60
04/22/86	-26.89	1426.89	12/07/86	-26.62	1426.62
05/01/86	-26.91	1426.91	12/08/86	-26.61	1426.61
05/12/86	-27.21	1427.21	12/09/86	-26.59	1426.59
06/02/86	-27.03	1427.03	12/10/86	-26.59	1426.59
06/17/86	-26.70	1426.70	12/11/86	-26.61	1426.61
07/09/86	-26.70	1426.70	12/12/86	-26.60	1426.60
07/30/86	-26.93	1426.93	12/13/86	-26.61	1426.61
08/01/86	-26.87	1426.87	12/14/86	-26.64	1426.64
08/31/86	-26.54	1426.54	12/16/86	-26.64	1426.64
09/03/86	-26.58	1426.58	12/17/86	-26.66	1426.66
09/14/86	-26.38	1426.38	12/18/86	-26.63	1426.63
10/01/86	-26.48	1426.48	12/19/86	-26.62	1426.62
10/02/86	-26.54	1426.54	12/20/86	-26.62	1426.62
10/03/86	-26.54	1426.54	12/21/86	-26.63	1426.63
10/04/86	-26.58	1426.58	12/22/86	-26.64	1426.64
10/05/86	-26.52	1426.52	12/23/86	-26.64	1426.64
10/06/86	-26.57	1426.57	12/24/86	-26.64	1426.64
10/07/86	-26.52	1426.52	12/25/86	-26.63	1426.63
10/08/86	-26.51	1426.51	12/26/86	-26.63	1426.63
10/09/86	-26.53	1426.53	12/27/86	-26.64	1426.64
10/10/86	-26.57	1426.57	12/28/86	-26.64	1426.64
10/11/86	-26.45	1426.45	12/29/86	-26.64	1426.64
10/12/86	-26.46	1426.46	12/30/86	-26.64	1426.64
10/13/86	-26.46	1426.46	12/31/86	-26.64	1426.64
10/14/86	-26.44	1426.44			
10/15/86	-26.48	1426.48	01/01/87	-26.64	1426.64
10/16/86	-26.44	1426.44	01/02/87	-26.63	1426.63
10/17/86	-26.44	1426.44	01/03/87	-26.64	1426.64
10/18/86	-26.48	1426.48	01/04/87	-26.65	1426.65
10/19/86	-26.46	1426.46	01/05/87	-26.64	1426.64
10/20/86	-26.46	1426.46	02/11/87	-26.64	1426.64
10/21/86	-26.45	1426.45	02/12/87	-26.66	1426.66
10/22/86	-26.44	1426.44	02/13/87	-26.67	1426.67
10/23/86	-26.43	1426.43	02/14/87	-26.65	1426.65
10/24/86	-26.43	1426.43	02/15/87	-26.66	1426.66
10/25/86	-26.43	1426.43	02/16/87	-26.67	1426.67
10/26/86	-26.44	1426.44	02/17/87	-26.69	1426.69
10/27/86	-26.44	1426.44	02/18/87	-26.69	1426.69
10/28/86	-26.45	1426.45	02/19/87	-26.70	1426.70
10/29/86	-26.41	1426.41	02/21/87	-26.71	1426.71
10/30/86	-26.41	1426.41	02/23/87	-26.71	1426.71
10/31/86	-26.51	1426.51	02/24/87	-26.70	1426.70

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl, ft)=1400  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
02/25/87	-26.75	1426.75	04/29/87	-28.08	1428.08
02/26/87	-26.73	1426.73	04/30/87	-28.09	1428.09
02/27/87	-26.78	1426.78	05/01/87	-28.12	1428.12
02/28/87	-26.80	1426.80	05/02/87	-28.16	1428.16
03/01/87	-26.83	1426.83	05/03/87	-28.19	1428.19
03/02/87	-26.82	1426.82	05/04/87	-28.22	1428.22
03/03/87	-26.83	1426.83	05/05/87	-28.26	1428.26
03/04/87	-26.85	1426.85	05/06/87	-28.27	1428.27
03/05/87	-26.85	1426.85	05/07/87	-28.29	1428.29
03/06/87	-26.86	1426.86	05/08/87	-28.32	1428.32
03/07/87	-26.85	1426.85	05/09/87	-28.32	1428.32
03/08/87	-26.81	1426.81	05/10/87	-28.34	1428.34
03/09/87	-26.80	1426.80	05/11/87	-28.33	1428.33
03/10/87	-26.81	1426.81	05/12/87	-28.37	1428.37
03/11/87	-26.83	1426.83	05/13/87	-28.38	1428.38
03/12/87	-26.83	1426.83	05/14/87	-28.35	1428.35
03/13/87	-26.84	1426.84	05/15/87	-28.38	1428.38
03/14/87	-26.83	1426.83	05/16/87	-28.32	1428.32
03/15/87	-26.83	1426.83	05/17/87	-28.32	1428.32
03/16/87	-26.84	1426.84	05/18/87	-28.32	1428.32
03/17/87	-26.85	1426.85	05/19/87	-28.38	1428.38
03/18/87	-26.86	1426.86	05/20/87	-28.37	1428.37
03/19/87	-26.87	1426.87	05/21/87	-28.46	1428.46
03/20/87	-26.87	1426.87	05/22/87	-28.52	1428.52
03/23/87	-26.87	1426.87	05/23/87	-28.54	1428.54
03/24/87	-26.88	1426.88	05/24/87	-28.57	1428.57
03/25/87	-26.88	1426.88	05/25/87	-28.58	1428.58
03/26/87	-26.91	1426.91	05/26/87	-28.65	1428.65
03/27/87	-26.93	1426.93	05/27/87	-28.69	1428.69
03/28/87	-26.94	1426.94	05/28/87	-28.73	1428.73
03/29/87	-26.96	1426.96	05/29/87	-28.75	1428.75
03/30/87	-26.98	1426.98	05/30/87	-28.77	1428.77
03/31/87	-27.02	1427.02	05/31/87	-28.75	1428.75
04/01/87	-27.05	1427.05	06/01/87	-28.73	1428.73
04/02/87	-27.06	1427.06	06/02/87	-28.74	1428.74
04/03/87	-27.11	1427.11	06/03/87	-28.64	1428.64
04/04/87	-27.14	1427.14	06/04/87	-28.63	1428.63
04/05/87	-27.18	1427.18	06/05/87	-28.63	1428.63
04/06/87	-27.23	1427.23	06/06/87	-28.66	1428.66
04/07/87	-27.22	1427.22	06/07/87	-28.69	1428.69
04/08/87	-27.26	1427.26	06/08/87	-28.63	1428.63
04/09/87	-27.32	1427.32	06/09/87	-28.62	1428.62
04/10/87	-27.32	1427.32	06/10/87	-28.59	1428.59
04/11/87	-27.35	1427.35	06/11/87	-28.72	1428.72
04/12/87	-27.38	1427.38	06/12/87	-28.67	1428.67
04/13/87	-27.41	1427.41	06/13/87	-28.68	1428.68
04/14/87	-27.46	1427.46	06/14/87	-28.66	1428.66
04/15/87	-27.50	1427.50	06/15/87	-28.64	1428.64
04/16/87	-27.55	1427.55	06/16/87	-28.61	1428.61
04/17/87	-27.59	1427.59	06/17/87	-28.68	1428.68
04/18/87	-27.64	1427.64	06/18/87	-28.65	1428.65
04/19/87	-27.69	1427.69	06/19/87	-28.63	1428.63
04/20/87	-27.72	1427.72	06/20/87	-28.63	1428.63
04/21/87	-27.72	1427.72	06/21/87	-28.64	1428.64
04/22/87	-27.77	1427.77	06/22/87	-28.65	1428.65
04/23/87	-27.87	1427.87	06/23/87	-28.74	1428.74
04/24/87	-27.88	1427.88	06/24/87	-28.70	1428.70
04/25/87	-27.94	1427.94	06/25/87	-28.70	1428.70
04/27/87	-28.02	1428.02	06/26/87	-28.63	1428.63
04/28/87	-28.07	1428.07	06/27/87	-28.63	1428.63

153-064-18C L (Continued)

Devils Lake Stage

LS Elev (msl, ft) = 1400

SI (ft.) = 0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/28/87	-28.60	1428.60	08/27/87	-28.56	1428.56
06/29/87	-28.63	1428.63	08/28/87	-28.55	1428.55
06/30/87	-28.61	1428.61	08/29/87	-28.57	1428.57
07/01/87	-28.62	1428.62	08/30/87	-28.56	1428.56
07/02/87	-28.61	1428.61	08/31/87	-28.50	1428.50
07/03/87	-28.58	1428.58	09/01/87	-28.50	1428.50
07/04/87	-28.57	1428.57	09/02/87	-28.46	1428.46
07/05/87	-28.58	1428.58	09/03/87	-28.48	1428.48
07/06/87	-28.59	1428.59	09/04/87	-28.48	1428.48
07/07/87	-28.60	1428.60	09/05/87	-28.45	1428.45
07/08/87	-28.55	1428.55	09/06/87	-28.46	1428.46
07/09/87	-28.54	1428.54	09/07/87	-28.44	1428.44
07/10/87	-28.59	1428.59	09/08/87	-28.42	1428.42
07/11/87	-28.61	1428.61	09/09/87	-28.40	1428.40
07/12/87	-28.62	1428.62	09/10/87	-28.38	1428.38
07/13/87	-28.59	1428.59	09/11/87	-28.38	1428.38
07/14/87	-28.57	1428.57	09/12/87	-28.37	1428.37
07/15/87	-28.65	1428.65	09/13/87	-28.37	1428.37
07/16/87	-28.69	1428.69	09/14/87	-28.37	1428.37
07/17/87	-28.67	1428.67	09/15/87	-28.37	1428.37
07/18/87	-28.69	1428.69	09/16/87	-28.36	1428.36
07/19/87	-28.67	1428.67	09/17/87	-28.43	1428.43
07/20/87	-28.77	1428.77	09/18/87	-28.39	1428.39
07/21/87	-28.73	1428.73	09/19/87	-28.38	1428.38
07/22/87	-28.79	1428.79	09/20/87	-28.39	1428.39
07/23/87	-28.79	1428.79	09/21/87	-28.39	1428.39
07/24/87	-28.79	1428.79	09/22/87	-28.39	1428.39
07/25/87	-28.78	1428.78	09/23/87	-28.36	1428.36
07/26/87	-28.75	1428.75	09/24/87	-28.31	1428.31
07/27/87	-28.77	1428.77	09/25/87	-28.33	1428.33
07/28/87	-28.78	1428.78	09/26/87	-28.32	1428.32
07/29/87	-28.76	1428.76	09/27/87	-28.35	1428.35
07/30/87	-28.71	1428.71	09/28/87	-28.34	1428.34
07/31/87	-28.79	1428.79	09/29/87	-28.32	1428.32
08/01/87	-28.79	1428.79	09/30/87	-28.30	1428.30
08/02/87	-28.81	1428.81	10/01/87	-28.30	1428.30
08/03/87	-28.80	1428.80	10/02/87	-28.23	1428.23
08/04/87	-28.73	1428.73	10/03/87	-28.21	1428.21
08/05/87	-28.71	1428.71	10/04/87	-28.30	1428.30
08/06/87	-28.77	1428.77	10/05/87	-28.23	1428.23
08/07/87	-28.71	1428.71	10/06/87	-27.17	1427.17
08/08/87	-28.70	1428.70	10/07/87	-28.17	1428.17
08/09/87	-28.67	1428.67	10/08/87	-28.19	1428.19
08/10/87	-28.61	1428.61	10/09/87	-28.12	1428.12
08/11/87	-28.64	1428.64	10/10/87	-28.12	1428.12
08/12/87	-28.60	1428.60	10/11/87	-28.10	1428.10
08/13/87	-28.55	1428.55	10/12/87	-28.11	1428.11
08/14/87	-28.54	1428.54	10/13/87	-28.11	1428.11
08/15/87	-28.68	1428.68	10/14/87	-28.08	1428.08
08/16/87	-28.67	1428.67	10/15/87	-28.05	1428.05
08/17/87	-28.63	1428.63	10/16/87	-28.07	1428.07
08/18/87	-28.65	1428.65	10/17/87	-28.08	1428.08
08/19/87	-28.59	1428.59	10/18/87	-28.07	1428.07
08/20/87	-28.58	1428.58	10/19/87	-28.03	1428.03
08/21/87	-28.61	1428.61	10/20/87	-28.02	1428.02
08/22/87	-28.57	1428.57	10/21/87	-27.98	1427.98
08/23/87	-28.53	1428.53	10/22/87	-27.99	1427.99
08/24/87	-28.53	1428.53	10/23/87	-28.01	1428.01
08/25/87	-28.50	1428.50	10/24/87	-27.98	1427.98
08/26/87	-28.54	1428.54	10/25/87	-28.00	1428.00

153-064-18C L (Continued)

Devils Lake StageLS Elev (msl, ft)=1400  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/26/87	-28.06	1428.06	12/26/87	-27.91	1427.91
10/27/87	-28.00	1428.00	12/27/87	-27.91	1427.91
10/28/87	-28.00	1428.00	12/28/87	-27.91	1427.91
10/29/87	-28.00	1428.00	12/29/87	-27.91	1427.91
10/30/87	-27.97	1427.97	12/30/87	-27.91	1427.91
10/31/87	-27.99	1427.99	02/12/88	-27.90	1427.90
11/01/87	-27.97	1427.97	04/22/88	-27.93	1427.93
11/02/87	-27.99	1427.99	04/28/88	-27.87	1427.87
11/03/87	-27.99	1427.99	04/29/88	-27.85	1427.85
11/04/87	-28.03	1428.03	04/30/88	-27.84	1427.84
11/05/87	-29.97	1429.97	05/01/88	-27.81	1427.81
11/06/87	-27.97	1427.97	05/02/88	-27.81	1427.81
11/07/87	-27.96	1427.96	05/03/88	-27.85	1427.85
11/08/87	-27.94	1427.94	05/04/88	-27.84	1427.84
11/09/87	-27.94	1427.94	05/05/88	-27.84	1427.84
11/10/87	-27.94	1427.94	05/06/88	-27.78	1427.78
11/11/87	-27.95	1427.95	05/07/88	-27.80	1427.80
11/12/87	-27.95	1427.95	05/08/88	-27.82	1427.82
11/13/87	-27.94	1427.94	05/09/88	-27.85	1427.85
11/14/87	-27.91	1427.91	05/10/88	-27.82	1427.82
11/15/87	-27.95	1427.95	05/11/88	-27.83	1427.83
11/16/87	-27.93	1427.93	05/12/88	-27.82	1427.82
11/17/87	-27.92	1427.92	05/13/88	-27.83	1427.83
11/18/87	-27.94	1427.94	05/14/88	-27.84	1427.84
11/19/87	-27.91	1427.91	05/15/88	-27.85	1427.85
11/20/87	-27.87	1427.87	05/16/88	-27.77	1427.77
11/21/87	-27.90	1427.90	05/17/88	-27.75	1427.75
11/22/87	-27.89	1427.89	05/18/88	-27.77	1427.77
11/23/87	-27.88	1427.88	05/19/88	-27.77	1427.77
11/24/87	-27.87	1427.87	05/20/88	-27.77	1427.77
11/25/87	-27.89	1427.89	05/21/88	-27.76	1427.76
11/26/87	-27.88	1427.88	05/22/88	-27.75	1427.75
11/27/87	-27.89	1427.89	05/23/88	-27.75	1427.75
11/28/87	-27.88	1427.88	05/24/88	-27.72	1427.72
11/29/87	-27.88	1427.88	05/25/88	-27.74	1427.74
11/30/87	-27.87	1427.87	05/26/88	-27.69	1427.69
12/01/87	-27.88	1427.88	05/27/88	-27.71	1427.71
12/02/87	-27.87	1427.87	05/28/88	-27.71	1427.71
12/03/87	-27.90	1427.90	05/29/88	-27.70	1427.70
12/04/87	-27.89	1427.89	05/30/88	-27.71	1427.71
12/05/87	-27.88	1427.88	05/31/88	-27.71	1427.71
12/06/87	-27.88	1427.88	06/01/88	-27.73	1427.73
12/07/87	-27.90	1427.90	06/02/88	-27.78	1427.78
12/08/87	-27.94	1427.94	06/03/88	-27.78	1427.78
12/09/87	-27.93	1427.93	06/04/88	-27.77	1427.77
12/10/87	-27.92	1427.92	06/05/88	-27.74	1427.74
12/11/87	-27.92	1427.92	06/06/88	-27.71	1427.71
12/12/87	-27.92	1427.92	06/07/88	-27.68	1427.68
12/13/87	-27.92	1427.92	06/08/88	-27.63	1427.63
12/14/87	-27.91	1427.91	06/09/88	-27.61	1427.61
12/15/87	-27.91	1427.91	06/10/88	-27.58	1427.58
12/16/87	-27.91	1427.91	06/11/88	-27.57	1427.57
12/17/87	-27.90	1427.90	06/12/88	-27.54	1427.54
12/18/87	-27.90	1427.90	06/13/88	-27.54	1427.54
12/19/87	-27.91	1427.91	06/14/88	-27.53	1427.53
12/20/87	-27.91	1427.91	06/15/88	-27.52	1427.52
12/21/87	-27.90	1427.90	06/16/88	-27.50	1427.50
12/22/87	-27.89	1427.89	06/17/88	-27.49	1427.49
12/23/87	-27.91	1427.91	06/18/88	-27.47	1427.47
12/24/87	-27.91	1427.91			

**153-064-18C L (Continued)**  
**Devils Lake Stage**

LS Elev (msl, ft)=1400  
SI (ft.)=0-0

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/19/88	-27.48	1427.48	08/18/88	-26.85	1426.85
06/20/88	-27.45	1427.45	08/19/88	-26.83	1426.83
06/21/88	-27.56	1427.56	08/20/88	-26.81	1426.81
06/22/88	-27.47	1427.47	08/21/88	-26.80	1426.80
06/23/88	-27.44	1427.44	08/22/88	-26.81	1426.81
06/24/88	-27.46	1427.46	08/23/88	-26.77	1426.77
06/25/88	-27.41	1427.41	08/24/88	-26.70	1426.70
06/26/88	-27.38	1427.38	08/25/88	-26.66	1426.66
06/27/88	-27.37	1427.37	08/26/88	-26.65	1426.65
06/28/88	-27.33	1427.33	08/27/88	-26.63	1426.63
06/29/88	-27.28	1427.28	08/28/88	-26.57	1426.57
06/30/88	-27.29	1427.29	08/29/88	-26.56	1426.56
07/01/88	-27.28	1427.28	08/30/88	-26.55	1426.55
07/02/88	-27.25	1427.25	08/31/88	-26.56	1426.56
07/03/88	-27.24	1427.24	09/01/88	-26.55	1426.55
07/04/88	-27.22	1427.22	09/02/88	-26.52	1426.52
07/05/88	-27.33	1427.33	09/03/88	-26.50	1426.50
07/06/88	-27.54	1427.54	09/04/88	-26.47	1426.47
07/07/88	-27.61	1427.61	09/05/88	-26.46	1426.46
07/08/88	-27.52	1427.52	09/06/88	-26.45	1426.45
07/09/88	-27.51	1427.51	09/07/88	-26.46	1426.46
07/10/88	-27.46	1427.46	09/08/88	-26.49	1426.49
07/11/88	-27.43	1427.43	09/09/88	-26.37	1426.37
07/12/88	-27.38	1427.38	09/10/88	-26.25	1426.25
07/13/88	-27.40	1427.40	09/11/88	-26.27	1426.27
07/14/88	-27.29	1427.29	09/12/88	-26.33	1426.33
07/15/88	-27.31	1427.31	09/13/88	-26.31	1426.31
07/16/88	-27.30	1427.30	09/14/88	-26.30	1426.30
07/17/88	-27.28	1427.28	09/15/88	-26.29	1426.29
07/18/88	-27.27	1427.27	09/16/88	-26.29	1426.29
07/19/88	-27.26	1427.26	09/17/88	-26.32	1426.32
07/20/88	-27.22	1427.22	09/18/88	-26.26	1426.26
07/21/88	-27.22	1427.22	09/19/88	-26.30	1426.30
07/22/88	-27.22	1427.22	09/20/88	-26.27	1426.27
07/23/88	-27.19	1427.19	09/21/88	-26.25	1426.25
07/24/88	-27.14	1427.14	09/22/88	-26.30	1426.30
07/25/88	-27.14	1427.14	09/23/88	-26.25	1426.25
07/26/88	-27.00	1427.00	09/24/88	-26.26	1426.26
07/27/88	-27.10	1427.10	09/25/88	-26.20	1426.20
07/28/88	-27.10	1427.10	09/26/88	-26.25	1426.25
07/29/88	-27.08	1427.08	09/27/88	-26.18	1426.18
07/30/88	-27.05	1427.05	09/28/88	-26.15	1426.15
07/31/88	-27.04	1427.04	09/29/88	-26.18	1426.18
08/01/88	-26.97	1426.97	09/30/88	-26.21	1426.21
08/02/88	-26.99	1426.99	10/01/88	-26.19	1426.19
08/03/88	-27.01	1427.01	10/05/88	-26.18	1426.18
08/04/88	-26.97	1426.97	10/06/88	-26.17	1426.17
08/05/88	-26.97	1426.97	10/07/88	-26.17	1426.17
08/06/88	-26.94	1426.94	10/08/88	-26.16	1426.16
08/07/88	-26.95	1426.95	10/09/88	-26.18	1426.18
08/08/88	-26.89	1426.89	10/10/88	-26.16	1426.16
08/09/88	-26.88	1426.88	10/12/88	-26.11	1426.11
08/10/88	-26.87	1426.87	10/13/88	-26.09	1426.09
08/11/88	-26.85	1426.85	10/14/88	-26.08	1426.08
08/12/88	-26.84	1426.84	10/15/88	-26.09	1426.09
08/13/88	-26.85	1426.85	10/16/88	-26.10	1426.10
08/14/88	-26.85	1426.85	10/17/88	-26.08	1426.08
08/15/88	-26.87	1426.87	10/18/88	-26.09	1426.09
08/16/88	-26.86	1426.86	10/19/88	-26.08	1426.08
08/17/88	-26.85	1426.85	10/20/88	-26.08	1426.08

**153-064-18C L (Continued)**  
**Devils Lake Stage**

**LS Elev (msl, ft)=1400  
SI (ft.)=0-0**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/21/88	-26.06	1426.06	11/26/88	-25.93	1425.93
10/22/88	-26.07	1426.07	11/27/88	-25.93	1425.93
10/23/88	-26.09	1426.09	11/28/88	-25.92	1425.92
10/24/88	-26.00	1426.00	11/29/88	-25.92	1425.92
10/25/88	-26.03	1426.03	11/30/88	-25.92	1425.92
10/26/88	-25.97	1425.97	12/01/88	-25.93	1425.93
10/27/88	-26.05	1426.05	12/02/88	-25.94	1425.94
10/28/88	-25.97	1425.97	12/03/88	-25.93	1425.93
10/29/88	-25.92	1425.92	12/04/88	-25.92	1425.92
10/30/88	-25.93	1425.93	12/05/88	-25.93	1425.93
10/31/88	-25.94	1425.94	12/06/88	-25.93	1425.93
11/01/88	-25.92	1425.92	12/07/88	-25.92	1425.92
11/02/88	-25.95	1425.95	12/08/88	-25.91	1425.91
11/03/88	-25.93	1425.93	12/09/88	-25.91	1425.91
11/04/88	-25.94	1425.94	12/10/88	-25.91	1425.91
11/05/88	-25.94	1425.94	12/11/88	-25.90	1425.90
11/06/88	-25.94	1425.94	12/12/88	-25.92	1425.92
11/07/88	-25.96	1425.96	12/13/88	-25.94	1425.94
11/08/88	-25.96	1425.96	12/14/88	-25.98	1425.98
11/09/88	-25.96	1425.96	12/15/88	-25.98	1425.98
11/10/88	-25.96	1425.96	12/16/88	-25.98	1425.98
11/11/88	-25.96	1425.96	12/17/88	-25.97	1425.97
11/12/88	-25.95	1425.95	12/18/88	-25.98	1425.98
11/13/88	-25.99	1425.99	12/19/88	-25.97	1425.97
11/14/88	-25.90	1425.90	12/20/88	-25.97	1425.97
11/15/88	-25.97	1425.97	12/21/88	-25.98	1425.98
11/16/88	-25.95	1425.95	12/22/88	-25.97	1425.97
11/17/88	-25.94	1425.94	12/23/88	-25.99	1425.99
11/18/88	-25.92	1425.92	12/24/88	-25.99	1425.99
11/19/88	-25.94	1425.94	12/25/88	-25.99	1425.99
11/20/88	-25.92	1425.92	12/26/88	-26.00	1426.00
11/21/88	-25.93	1425.93	12/27/88	-26.03	1426.03
11/22/88	-25.93	1425.93	12/28/88	-26.03	1426.03
11/23/88	-25.93	1425.93	12/29/88	-26.03	1426.03
11/24/88	-25.94	1425.94	12/30/88	-26.03	1426.03
11/25/88	-25.93	1425.93	12/31/88	-26.03	1426.03

153-064-19AAB3

Spiritwood Aquifer

LS Elev (msl, ft) = 1458.97

SI (ft.) = 117-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/25/73	36.57	1422.40	08/25/74	33.28	1425.69
10/05/73	36.43	1422.54	08/31/74	33.73	1425.24
10/10/73	36.31	1422.66	09/05/74	33.68	1425.29
10/15/73	36.17	1422.80	09/10/74	32.77	1426.20
10/20/73	36.21	1422.76	09/15/74	33.05	1425.92
10/25/73	36.17	1422.80	09/20/74	33.27	1425.70
10/31/73	36.24	1422.73	09/25/74	32.81	1426.16
11/05/73	35.98	1422.99	10/05/74	33.68	1425.29
11/10/73	36.29	1422.68	10/10/74	33.36	1425.61
11/15/73	36.22	1422.75	10/15/74	33.56	1425.41
11/20/73	36.09	1422.88	10/20/74	33.55	1425.42
11/25/73	36.03	1422.94	10/25/74	33.60	1425.37
11/30/73	36.09	1422.88	10/31/74	33.36	1425.61
12/05/73	35.99	1422.98	11/05/74	33.28	1425.69
12/15/73	36.14	1422.83	11/10/74	33.23	1425.74
12/20/73	36.05	1422.92	11/15/74	33.22	1425.75
12/25/73	36.07	1422.90	11/20/74	33.17	1425.80
12/31/73	35.99	1422.98	11/25/74	33.25	1425.72
			11/30/74	33.39	1425.58
01/05/74	36.07	1422.90	12/05/74	33.14	1425.83
01/10/74	36.15	1422.82	12/10/74	32.97	1426.00
01/15/74	36.02	1422.95	12/15/74	33.06	1425.91
01/20/74	35.96	1423.01	12/20/74	32.89	1426.08
01/25/74	36.03	1422.94	12/25/74	32.95	1426.02
01/31/74	36.05	1422.92	12/30/74	32.77	1426.20
02/05/74	36.04	1422.93	12/31/74	32.80	1426.17
02/10/74	36.00	1422.97			
02/15/74	36.09	1422.88	07/18/86	19.98	1438.99
02/20/74	35.98	1422.99	07/30/86	10.13	1448.84
02/25/74	36.25	1422.72			
02/28/74	35.98	1422.99	05/11/87	9.98	1448.99
03/05/74	35.90	1423.07	06/16/87	12.35	1446.62
03/10/74	36.20	1422.77	07/14/87	13.84	1445.13
03/15/74	36.04	1422.93	08/11/87	13.59	1445.38
03/20/74	36.04	1422.93	09/09/87	14.65	1444.32
03/25/74	36.10	1422.87	09/25/87	14.82	1444.15
03/31/74	35.96	1423.01	09/28/87	16.41	1442.56
04/05/74	36.09	1422.88	09/29/87	8.41	1450.56
04/10/74	36.08	1422.89	09/30/87	28.25	1430.72
04/15/74	35.73	1423.24	10/15/87	29.52	1429.45
04/20/74	35.31	1423.66	11/10/87	29.03	1429.94
04/25/74	35.48	1423.49	12/08/87	29.03	1429.94
04/30/74	35.75	1423.22			
05/05/74	35.67	1423.30	01/19/88	28.78	1430.19
05/10/74	35.62	1423.35	03/31/88	28.19	1430.78
05/15/74	35.65	1423.32	05/06/88	28.94	1430.03
05/20/74	35.67	1423.30	06/02/88	28.46	1430.51
05/25/74	35.67	1423.30	07/08/88	29.66	1429.31
06/25/74	33.87	1425.10	08/04/88	30.26	1428.71
06/30/74	33.98	1424.99	09/09/88	29.93	1429.04
07/05/74	33.85	1425.12	10/13/88	29.67	1429.30
07/10/74	33.86	1425.11	11/09/88	28.93	1430.04
07/15/74	33.77	1425.20	12/15/88	28.68	1430.29
07/20/74	33.86	1425.11			
07/25/74	33.62	1425.35	06/15/89	31.10	1427.87
07/31/74	34.02	1424.95	08/08/89	33.41	1425.56
08/05/74	33.84	1425.13	10/12/89	32.68	1426.29
08/10/74	33.82	1425.15	12/20/89	32.35	1426.62
08/15/74	33.50	1425.47			
08/20/74	33.47	1425.50	04/17/90	32.48	1426.49

**153-064-19AAB3**                   **(Continued)**

**Spiritwood Aquifer**

LS Elev (msl,ft)=1458.97

SI (ft.)=117-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/13/90	33.16	1425.81	10/31/90	35.53	1423.44
09/07/90	35.98	1422.99			

**153-064-19AAB3 Recorder well**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1458.97

SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/25/73	36.57	1422.40	08/25/74	33.28	1425.69
10/05/73	36.43	1422.54	08/31/74	33.73	1425.24
10/10/73	36.31	1422.66	09/05/74	33.68	1425.29
10/15/73	36.17	1422.80	09/10/74	32.77	1426.20
10/20/73	36.21	1422.76	09/15/74	33.05	1425.92
10/25/73	36.17	1422.80	09/20/74	33.27	1425.70
10/31/73	36.24	1422.73	09/25/74	32.81	1426.16
11/05/73	35.98	1422.99	10/05/74	33.68	1425.29
11/10/73	36.29	1422.68	10/10/74	33.36	1425.61
11/15/73	36.22	1422.75	10/15/74	33.56	1425.41
11/20/73	36.09	1422.88	10/20/74	33.55	1425.42
11/25/73	36.03	1422.94	10/25/74	33.60	1425.37
11/30/73	36.09	1422.88	10/31/74	33.36	1425.61
12/05/73	35.99	1422.98	11/05/74	33.28	1425.69
12/15/73	36.14	1422.83	11/10/74	33.23	1425.74
12/20/73	36.05	1422.92	11/15/74	33.22	1425.75
12/25/73	36.07	1422.90	11/20/74	33.17	1425.80
12/31/73	35.99	1422.98	11/25/74	33.25	1425.72
			11/30/74	33.39	1425.58
01/05/74	36.07	1422.90	12/05/74	33.14	1425.83
01/10/74	36.15	1422.82	12/10/74	32.97	1426.00
01/15/74	36.02	1422.95	12/15/74	33.06	1425.91
01/20/74	35.96	1423.01	12/20/74	32.89	1426.08
01/25/74	36.03	1422.94	12/25/74	32.95	1426.02
01/31/74	36.05	1422.92	12/31/74	32.80	1426.17
02/05/74	36.04	1422.93			
02/10/74	36.00	1422.97	10/08/75	31.70	1427.27
02/15/74	36.09	1422.88	10/09/75	31.86	1427.11
02/20/74	35.98	1422.99	10/10/75	31.94	1427.03
02/25/74	36.25	1422.72	10/11/75	31.90	1427.07
02/28/74	35.98	1422.99	10/12/75	31.84	1427.13
03/05/74	35.90	1423.07	10/13/75	31.89	1427.08
03/10/74	36.20	1422.77	10/14/75	31.85	1427.12
03/15/74	36.04	1422.93	10/15/75	31.94	1427.03
03/20/74	36.04	1422.93	10/16/75	31.96	1427.01
03/25/74	36.10	1422.87	10/17/75	32.02	1426.95
03/31/74	35.96	1423.01	10/18/75	31.96	1427.01
04/05/74	36.09	1422.88	10/19/75	31.89	1427.08
04/10/74	36.08	1422.89	10/20/75	31.84	1427.13
04/15/74	35.73	1423.24	10/21/75	31.82	1427.15
04/20/74	35.31	1423.66	10/22/75	31.48	1427.49
04/25/74	35.48	1423.49	10/23/75	31.48	1427.49
04/30/74	35.75	1423.22	10/24/75	31.88	1427.09
05/05/74	35.67	1423.30	10/25/75	31.93	1427.04
05/10/74	35.62	1423.35	10/26/75	31.93	1427.04
05/15/74	35.65	1423.32	10/27/75	32.07	1426.90
05/20/74	35.67	1423.30	10/28/75	32.20	1426.77
05/25/74	35.67	1423.30	10/29/75	32.20	1426.77
06/25/74	33.87	1425.10	10/30/75	32.12	1426.85
06/30/74	33.98	1424.99	10/31/75	31.93	1427.04
07/05/74	33.85	1425.12	11/01/75	31.93	1427.04
07/10/74	33.86	1425.11	11/02/75	31.98	1426.99
07/15/74	33.77	1425.20	11/03/75	32.01	1426.96
07/20/74	33.86	1425.11	11/04/75	32.08	1426.89
07/25/74	33.62	1425.35	11/05/75	32.08	1426.89
07/31/74	34.02	1424.95	11/06/75	32.04	1426.93
08/05/74	33.84	1425.13	11/07/75	31.95	1427.02
08/10/74	33.82	1425.15	11/08/75	32.04	1426.93
08/15/74	33.50	1425.47	11/09/75	32.11	1426.86
08/20/74	33.47	1425.50	11/10/75	32.11	1426.86

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

**LS Elev (msl, ft) = 1458.97**

**SI (ft.) = 0-122**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/11/75	32.11	1426.86	01/09/76	32.27	1426.70
11/12/75	32.25	1426.72	01/10/76	32.22	1426.75
11/13/75	32.25	1426.72	01/11/76	32.17	1426.80
11/14/75	32.07	1426.90	01/12/76	32.10	1426.87
11/15/75	32.00	1426.97	01/13/76	32.20	1426.77
11/16/75	32.08	1426.89	01/14/76	32.24	1426.73
11/17/75	32.19	1426.78	01/15/76	32.23	1426.74
11/18/75	32.23	1426.74	01/16/76	32.25	1426.72
11/19/75	32.27	1426.70	01/17/76	32.25	1426.72
11/20/75	32.28	1426.69	01/18/76	32.21	1426.76
11/21/75	32.23	1426.74	01/19/76	32.24	1426.73
11/22/75	32.24	1426.73	01/20/76	32.24	1426.73
11/23/75	32.35	1426.62	01/21/76	32.26	1426.71
11/24/75	32.36	1426.61	01/22/76	32.26	1426.71
11/25/75	32.29	1426.68	01/23/76	32.14	1426.83
11/26/75	32.27	1426.70	01/24/76	32.07	1426.90
11/27/75	32.07	1426.90	01/25/76	32.19	1426.78
11/28/75	32.05	1426.92	01/26/76	32.25	1426.72
11/29/75	31.98	1426.99	01/27/76	32.25	1426.72
11/30/75	32.06	1426.91	01/28/76	32.14	1426.83
12/01/75	32.07	1426.90	01/29/76	32.15	1426.82
12/02/75	32.22	1426.75	01/30/76	32.15	1426.82
12/03/75	32.22	1426.75	01/31/76	32.15	1426.82
12/04/75	32.00	1426.97	02/01/76	32.16	1426.81
12/05/75	32.25	1426.72	02/02/76	32.14	1426.83
12/06/75	32.39	1426.58	02/03/76	32.14	1426.83
12/07/75	32.32	1426.65	02/04/76	32.28	1426.69
12/08/75	32.27	1426.70	02/05/76	32.29	1426.68
12/09/75	32.19	1426.78	02/06/76	32.28	1426.69
12/10/75	32.24	1426.73	02/07/76	32.20	1426.77
12/11/75	32.38	1426.59	02/08/76	32.06	1426.91
12/12/75	32.39	1426.58	02/09/76	32.00	1426.97
12/13/75	32.22	1426.75	02/10/76	32.12	1426.85
12/14/75	32.35	1426.62	02/11/76	32.16	1426.81
12/15/75	32.35	1426.62	02/12/76	32.12	1426.85
12/16/75	32.35	1426.62	02/13/76	32.24	1426.73
12/17/75	32.42	1426.55	02/14/76	32.24	1426.73
12/18/75	32.42	1426.55	02/15/76	32.13	1426.84
12/19/75	32.17	1426.80	02/16/76	32.14	1426.83
12/20/75	32.35	1426.62	02/17/76	32.10	1426.87
12/21/75	32.35	1426.62	02/18/76	32.08	1426.89
12/22/75	32.35	1426.62	02/19/76	32.11	1426.86
12/23/75	32.35	1426.62	02/20/76	32.24	1426.73
12/24/75	32.24	1426.73	02/21/76	32.27	1426.70
12/25/75	32.24	1426.73	02/22/76	32.27	1426.70
12/26/75	32.24	1426.73	02/23/76	32.24	1426.73
12/27/75	32.21	1426.76	02/24/76	32.15	1426.82
12/28/75	32.23	1426.74	02/25/76	32.18	1426.79
12/29/75	32.24	1426.73	02/26/76	32.22	1426.75
12/30/75	32.22	1426.75	02/27/76	32.23	1426.74
12/31/75	32.24	1426.73	02/28/76	32.24	1426.73
			02/29/76	32.23	1426.74
01/01/76	32.26	1426.71	03/01/76	32.23	1426.74
01/02/76	32.25	1426.72	03/02/76	32.12	1426.85
01/03/76	32.32	1426.65	03/03/76	32.18	1426.79
01/04/76	32.32	1426.65	03/04/76	32.20	1426.77
01/05/76	32.24	1426.73	03/05/76	32.20	1426.77
01/06/76	32.30	1426.67	03/06/76	32.17	1426.80
01/07/76	32.34	1426.63	03/07/76	32.22	1426.75
01/08/76	32.34	1426.63	03/08/76	32.22	1426.75

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1458.97

SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
03/09/76	31.99	1426.98	08/17/76	25.90	1433.07
03/10/76	31.75	1427.22	08/18/76	25.96	1433.01
03/11/76	31.77	1427.20	08/19/76	25.78	1433.19
03/12/76	31.85	1427.12	08/20/76	24.87	1434.10
03/13/76	31.80	1427.17	08/21/76	26.04	1432.93
03/14/76	31.78	1427.19	08/22/76	26.10	1432.87
03/15/76	31.96	1427.01	08/23/76	25.94	1433.03
03/16/76	32.09	1426.88	08/24/76	25.70	1433.27
03/17/76	32.09	1426.88	08/25/76	25.81	1433.16
03/18/76	32.02	1426.95	08/26/76	25.83	1433.14
03/19/76	31.94	1427.03	08/27/76	26.16	1432.81
03/20/76	31.94	1427.03	08/28/76	26.96	1432.01
03/21/76	32.11	1426.86	08/29/76	26.91	1432.06
03/22/76	32.12	1426.85	08/30/76	26.89	1432.08
03/23/76	32.11	1426.86	08/31/76	28.96	1430.01
03/24/76	32.01	1426.96	09/01/76	28.98	1429.99
03/25/76	32.00	1426.97	09/02/76	28.91	1430.06
03/26/76	32.01	1426.96	09/03/76	28.89	1430.08
03/27/76	32.01	1426.96	09/04/76	29.00	1429.97
03/28/76	31.83	1427.14	09/05/76	28.99	1429.98
03/29/76	31.71	1427.26	09/06/76	28.99	1429.98
03/30/76	31.71	1427.26	09/07/76	29.51	1429.46
03/31/76	31.52	1427.45	09/08/76	30.26	1428.71
04/01/76	31.23	1427.74	09/09/76	30.55	1428.42
04/02/76	31.15	1427.82	09/10/76	30.51	1428.46
04/03/76	31.13	1427.84	09/11/76	30.47	1428.50
04/04/76	28.67	1430.30	09/12/76	30.42	1428.55
04/05/76	29.48	1429.49	09/13/76	30.74	1428.23
04/06/76	29.51	1429.46	09/14/76	30.75	1428.22
04/07/76	29.45	1429.52	09/15/76	30.71	1428.26
04/08/76	29.34	1429.63	09/16/76	30.67	1428.30
04/09/76	28.68	1430.29	09/17/76	30.62	1428.35
04/10/76	29.14	1429.83	09/18/76	30.58	1428.39
04/11/76	29.34	1429.63	09/19/76	30.77	1428.20
04/28/76	29.23	1429.74	09/20/76	30.73	1428.24
04/29/76	29.30	1429.67	09/21/76	30.69	1428.28
04/30/76	29.20	1429.77	09/22/76	30.64	1428.33
05/01/76	30.54	1428.43	09/23/76	30.64	1428.33
05/02/76	31.12	1427.85	09/24/76	30.60	1428.37
05/03/76	31.03	1427.94	09/25/76	30.56	1428.41
05/04/76	30.16	1428.81	09/26/76	30.62	1428.35
05/05/76	30.08	1428.89	09/27/76	30.79	1428.18
05/06/76	29.99	1428.98	09/28/76	30.75	1428.22
05/07/76	29.99	1428.98	09/29/76	30.71	1428.26
05/08/76	29.80	1429.17	09/30/76	30.67	1428.30
05/09/76	29.64	1429.33	10/01/76	30.75	1428.22
05/10/76	29.36	1429.61	10/02/76	30.71	1428.26
05/11/76	29.31	1429.66	10/03/76	30.67	1428.30
08/05/76	26.83	1432.14	10/04/76	30.75	1428.22
08/06/76	26.75	1432.22	10/05/76	30.83	1428.14
08/07/76	26.05	1432.92	10/06/76	31.45	1427.52
08/08/76	25.64	1433.33	10/07/76	31.49	1427.48
08/09/76	25.48	1433.49	10/08/76	32.17	1426.80
08/10/76	25.61	1433.36	10/09/76	32.26	1426.71
08/11/76	25.62	1433.35	10/10/76	32.06	1426.91
08/12/76	25.94	1433.03	10/11/76	32.26	1426.71
08/13/76	26.29	1432.68	10/12/76	32.59	1426.38
08/14/76	26.19	1432.78	10/13/76	32.66	1426.31
08/15/76	26.15	1432.82	10/14/76	32.12	1426.85
08/16/76	25.93	1433.04	10/15/76	33.05	1425.92

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft)=1458.97  
SI (ft.)=0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/16/76	33.16	1425.81	12/15/76	32.67	1426.30
10/17/76	33.06	1425.91	12/16/76	32.65	1426.32
10/18/76	32.89	1426.08	12/17/76	32.63	1426.34
10/19/76	32.88	1426.09	12/18/76	32.62	1426.35
10/20/76	32.57	1426.40	12/19/76	32.64	1426.33
10/21/76	32.69	1426.28	12/20/76	32.70	1426.27
10/22/76	32.77	1426.20	12/21/76	32.70	1426.27
10/23/76	32.92	1426.05	12/22/76	32.65	1426.32
10/24/76	32.93	1426.04	12/23/76	32.64	1426.33
10/25/76	32.90	1426.07	12/24/76	32.64	1426.33
10/26/76	33.02	1425.95	12/25/76	32.61	1426.36
10/27/76	33.03	1425.94	12/26/76	32.61	1426.36
10/28/76	32.06	1426.91	12/27/76	32.60	1426.37
10/29/76	32.30	1426.67	12/28/76	32.55	1426.42
10/30/76	32.86	1426.11	12/29/76	32.54	1426.43
10/31/76	32.91	1426.06	12/30/76	32.49	1426.48
11/01/76	32.60	1426.37	12/31/76	32.56	1426.41
11/02/76	32.70	1426.27			
11/03/76	32.86	1426.11	01/01/77	32.65	1426.32
11/04/76	32.90	1426.07	01/02/77	32.66	1426.31
11/05/76	32.35	1426.62	01/03/77	32.65	1426.32
11/06/76	32.65	1426.32	01/04/77	32.62	1426.35
11/07/76	32.82	1426.15	01/05/77	32.63	1426.34
11/08/76	32.82	1426.15	01/06/77	32.63	1426.34
11/09/76	32.23	1426.74	01/07/77	32.63	1426.34
11/10/76	32.60	1426.37	03/04/77	32.47	1426.50
11/11/76	32.77	1426.20	03/05/77	32.47	1426.50
11/12/76	32.86	1426.11	03/06/77	32.48	1426.49
11/13/76	32.86	1426.11	03/07/77	32.48	1426.49
11/14/76	32.86	1426.11	03/08/77	32.48	1426.49
11/15/76	32.82	1426.15	03/09/77	32.45	1426.52
11/16/76	32.78	1426.19	03/10/77	32.40	1426.57
11/17/76	32.75	1426.22	03/11/77	32.38	1426.59
11/18/76	32.73	1426.24	03/12/77	32.38	1426.59
11/19/76	32.68	1426.29	03/13/77	32.38	1426.59
11/20/76	32.68	1426.29	03/14/77	32.38	1426.59
11/21/76	32.72	1426.25	04/12/77	32.56	1426.41
11/22/76	32.75	1426.22	04/13/77	32.56	1426.41
11/23/76	32.76	1426.21	04/14/77	32.56	1426.41
11/24/76	32.76	1426.21	04/15/77	32.56	1426.41
11/25/76	32.71	1426.26	04/16/77	32.56	1426.41
11/26/76	32.67	1426.30	04/17/77	32.56	1426.41
11/27/76	32.70	1426.27	04/18/77	32.56	1426.41
11/28/76	32.73	1426.24	04/19/77	32.58	1426.39
11/29/76	32.77	1426.20	04/20/77	32.58	1426.39
11/30/76	32.77	1426.20	04/21/77	32.61	1426.36
12/01/76	32.77	1426.20	04/22/77	32.63	1426.34
12/02/76	32.79	1426.18	04/23/77	32.68	1426.29
12/03/76	32.79	1426.18	04/24/77	32.76	1426.21
12/04/76	32.80	1426.17	04/25/77	32.77	1426.20
12/05/76	32.81	1426.16	04/26/77	32.77	1426.20
12/06/76	32.81	1426.16	04/27/77	32.77	1426.20
12/07/76	32.81	1426.16	04/28/77	32.86	1426.11
12/08/76	32.81	1426.16	04/29/77	32.95	1426.02
12/09/76	32.81	1426.16	04/30/77	32.97	1426.00
12/10/76	32.76	1426.21	05/01/77	33.09	1425.88
12/11/76	32.76	1426.21	05/02/77	33.18	1425.79
12/12/76	32.74	1426.23	05/03/77	33.23	1425.74
12/13/76	32.74	1426.23	05/04/77	33.23	1425.74
12/14/76	32.71	1426.26	05/05/77	33.17	1425.80

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl,ft)=1458.97  
SI (ft.)=0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/06/77	33.13	1425.84	07/05/77	33.87	1425.10
05/07/77	33.13	1425.84	07/06/77	33.83	1425.14
05/08/77	33.13	1425.84	07/07/77	33.81	1425.16
05/09/77	33.13	1425.84	07/08/77	33.73	1425.24
05/10/77	33.13	1425.84	07/09/77	33.73	1425.24
05/11/77	33.13	1425.84	07/10/77	33.73	1425.24
05/12/77	33.13	1425.84	07/11/77	33.16	1425.81
05/13/77	33.13	1425.84	07/12/77	32.78	1426.19
05/14/77	33.13	1425.84	07/13/77	32.93	1426.04
05/15/77	33.13	1425.84	07/14/77	33.14	1425.83
05/16/77	33.13	1425.84	07/15/77	33.23	1425.74
05/17/77	33.13	1425.84	07/16/77	33.17	1425.80
05/18/77	33.13	1425.84	07/17/77	33.17	1425.80
05/19/77	33.17	1425.80	07/18/77	33.05	1425.92
05/20/77	33.25	1425.72	07/19/77	33.01	1425.96
05/21/77	33.36	1425.61	07/20/77	33.23	1425.74
05/22/77	33.40	1425.57	07/21/77	33.39	1425.58
05/23/77	33.43	1425.54	07/22/77	33.41	1425.56
05/24/77	33.45	1425.52	07/23/77	33.48	1425.49
05/25/77	33.46	1425.51	07/24/77	33.52	1425.45
05/26/77	33.46	1425.51	07/25/77	33.63	1425.34
05/27/77	33.46	1425.51	07/26/77	33.69	1425.28
05/28/77	33.46	1425.51	07/27/77	33.69	1425.28
05/29/77	33.46	1425.51	07/28/77	33.73	1425.24
05/30/77	33.46	1425.51	07/29/77	33.82	1425.15
05/31/77	33.46	1425.51	07/30/77	33.82	1425.15
06/01/77	33.46	1425.51	07/31/77	33.78	1425.19
06/02/77	33.46	1425.51	08/01/77	33.86	1425.11
06/03/77	33.46	1425.51	08/02/77	33.89	1425.08
06/04/77	33.46	1425.51	08/03/77	33.94	1425.03
06/05/77	33.46	1425.51	08/04/77	33.94	1425.03
06/06/77	33.46	1425.51	08/05/77	33.98	1424.99
06/07/77	33.46	1425.51	08/06/77	33.98	1424.99
06/08/77	33.46	1425.51	08/07/77	33.97	1425.00
06/09/77	33.54	1425.43	08/08/77	33.97	1425.00
06/10/77	33.58	1425.39	08/09/77	33.97	1425.00
06/11/77	33.66	1425.31	08/10/77	33.82	1425.15
06/12/77	33.70	1425.27	08/11/77	33.89	1425.08
06/13/77	33.74	1425.23	08/12/77	34.03	1424.94
06/14/77	33.74	1425.23	08/13/77	34.07	1424.90
06/15/77	33.74	1425.23	08/14/77	34.09	1424.88
06/16/77	33.71	1425.26	08/15/77	34.14	1424.83
06/17/77	33.68	1425.29	08/16/77	34.14	1424.83
06/18/77	33.64	1425.33	08/17/77	34.15	1424.82
06/19/77	33.62	1425.35	08/18/77	34.22	1424.75
06/20/77	33.61	1425.36	08/19/77	34.27	1424.70
06/21/77	33.60	1425.37	08/20/77	34.35	1424.62
06/22/77	33.60	1425.37	08/21/77	34.35	1424.62
06/23/77	33.60	1425.37	08/22/77	34.35	1424.62
06/24/77	33.58	1425.39	08/23/77	34.35	1424.62
06/25/77	33.61	1425.36	08/24/77	34.38	1424.59
06/26/77	33.67	1425.30	08/25/77	34.38	1424.59
06/27/77	33.70	1425.27	08/26/77	34.34	1424.63
06/28/77	33.74	1425.23	08/27/77	34.34	1424.63
06/29/77	33.76	1425.21	08/28/77	34.36	1424.61
06/30/77	33.81	1425.16	08/29/77	34.38	1424.59
07/01/77	33.89	1425.08	08/30/77	34.35	1424.62
07/02/77	33.91	1425.06	08/31/77	34.30	1424.67
07/03/77	33.91	1425.06	09/01/77	34.30	1424.67
07/04/77	33.89	1425.08	09/02/77	34.30	1424.67

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft)=1458.97  
SI (ft.)=0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/03/77	34.30	1424.67	12/19/77	33.25	1425.72
09/04/77	34.24	1424.73	12/20/77	33.34	1425.63
09/05/77	34.21	1424.76	12/21/77	33.36	1425.61
09/06/77	34.16	1424.81	12/22/77	33.36	1425.61
09/07/77	34.16	1424.81	12/23/77	33.27	1425.70
09/08/77	34.15	1424.82	12/24/77	33.26	1425.71
09/09/77	33.99	1424.98	12/25/77	33.26	1425.71
09/10/77	33.99	1424.98	12/26/77	33.26	1425.71
09/11/77	33.99	1424.98	12/27/77	33.20	1425.77
09/12/77	33.99	1424.98	01/19/78	33.29	1425.68
09/13/77	33.99	1424.98	01/20/78	33.29	1425.68
09/14/77	33.92	1425.05	01/21/78	33.29	1425.68
09/15/77	33.92	1425.05	01/22/78	33.26	1425.71
09/16/77	33.93	1425.04	01/23/78	33.18	1425.79
09/17/77	34.01	1424.96	01/24/78	33.15	1425.82
09/18/77	34.05	1424.92	01/25/78	33.13	1425.84
09/19/77	34.06	1424.91	01/26/78	33.12	1425.85
09/20/77	34.06	1424.91	01/27/78	33.12	1425.85
09/21/77	34.06	1424.91	01/28/78	33.12	1425.85
09/22/77	34.06	1424.91	01/29/78	33.12	1425.85
09/23/77	34.06	1424.91	01/30/78	33.12	1425.85
09/24/77	33.94	1425.03	01/31/78	33.11	1425.86
09/25/77	33.94	1425.03	02/01/78	33.08	1425.89
09/26/77	33.92	1425.05	02/02/78	33.08	1425.89
09/27/77	33.78	1425.19	02/03/78	33.06	1425.91
09/28/77	33.78	1425.19	02/04/78	33.03	1425.94
09/29/77	33.78	1425.19	02/14/78	32.55	1426.42
09/30/77	33.79	1425.18	02/15/78	32.52	1426.45
10/17/77	33.66	1425.31	02/16/78	32.54	1426.43
10/18/77	33.72	1425.25	02/17/78	32.59	1426.38
10/19/77	33.77	1425.20	02/18/78	32.59	1426.38
10/20/77	33.77	1425.20	02/19/78	32.55	1426.42
10/21/77	33.73	1425.24	02/20/78	32.49	1426.48
10/22/77	33.73	1425.24	02/21/78	32.23	1426.74
10/23/77	33.73	1425.24	02/22/78	31.95	1427.02
10/24/77	33.73	1425.24	02/23/78	31.68	1427.29
10/25/77	33.73	1425.24	02/24/78	31.51	1427.46
10/26/77	33.73	1425.24	02/25/78	31.36	1427.61
10/27/77	33.65	1425.32	02/26/78	31.32	1427.65
10/28/77	33.64	1425.33	02/27/78	31.20	1427.77
10/29/77	33.64	1425.33	02/28/78	31.47	1427.50
10/30/77	33.62	1425.35	03/01/78	31.64	1427.33
11/01/77	33.57	1425.40	03/02/78	31.75	1427.22
11/02/77	33.56	1425.41	03/03/78	31.87	1427.10
11/03/77	33.55	1425.42	03/04/78	31.89	1427.08
11/04/77	33.55	1425.42	03/05/78	31.90	1427.07
11/05/77	33.56	1425.41	03/06/78	31.94	1427.03
11/06/77	33.58	1425.39	03/07/78	31.94	1427.03
11/07/77	33.58	1425.39	03/08/78	31.94	1427.03
11/08/77	33.58	1425.39	03/09/78	31.87	1427.10
11/09/77	33.58	1425.39	03/10/78	31.80	1427.17
11/10/77	33.58	1425.39	03/11/78	31.74	1427.23
11/11/77	33.58	1425.39	03/12/78	31.68	1427.29
11/12/77	33.49	1425.48	03/13/78	31.64	1427.33
11/13/77	33.38	1425.59	03/14/78	31.61	1427.36
11/14/77	33.37	1425.60	03/15/78	31.65	1427.32
11/15/77	33.33	1425.64	03/16/78	31.71	1427.26
11/16/77	33.29	1425.68	03/17/78	31.74	1427.23
11/17/77	33.26	1425.71	03/18/78	31.81	1427.16
11/18/77	33.25	1425.72			

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1458.97  
SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
03/19/78	31.91	1427.06	05/31/78	32.83	1426.14
03/20/78	31.93	1427.04	06/01/78	32.79	1426.18
03/21/78	31.96	1427.01	06/02/78	32.83	1426.14
03/22/78	32.00	1426.97	06/03/78	32.89	1426.08
03/23/78	32.03	1426.94	06/04/78	33.17	1425.80
03/24/78	31.42	1427.55	06/05/78	33.24	1425.73
03/25/78	29.68	1429.29	06/06/78	33.24	1425.73
03/26/78	29.48	1429.49	07/12/78	31.92	1427.05
03/27/78	30.02	1428.95	07/13/78	31.49	1427.48
03/28/78	30.33	1428.64	07/14/78	31.28	1427.69
03/29/78	30.39	1428.58	07/15/78	31.28	1427.69
03/30/78	30.41	1428.56	07/16/78	31.09	1427.88
04/13/78	33.33	1425.64	07/17/78	31.24	1427.73
04/14/78	33.33	1425.64	07/18/78	31.24	1427.73
04/15/78	33.15	1425.82	07/19/78	31.24	1427.73
04/16/78	33.15	1425.82	11/22/78	33.70	1425.27
04/17/78	33.01	1425.96	11/23/78	33.62	1425.35
04/18/78	32.90	1426.07	11/24/78	33.62	1425.35
04/19/78	32.88	1426.09	11/25/78	33.72	1425.25
04/20/78	32.88	1426.09	11/26/78	33.73	1425.24
04/21/78	32.88	1426.09	11/27/78	33.74	1425.23
04/22/78	32.79	1426.18	11/28/78	33.68	1425.29
04/23/78	32.72	1426.25	11/29/78	33.58	1425.39
04/24/78	32.69	1426.28	11/30/78	32.88	1426.09
04/25/78	32.69	1426.28	12/01/78	32.84	1426.13
04/26/78	32.69	1426.28	12/02/78	33.00	1425.97
04/27/78	32.69	1426.28	12/03/78	33.02	1425.95
04/28/78	32.68	1426.29	12/04/78	32.91	1426.06
04/29/78	32.65	1426.32	12/05/78	32.79	1426.18
04/30/78	32.64	1426.33	12/06/78	32.89	1426.08
05/01/78	32.63	1426.34	12/07/78	32.89	1426.08
05/02/78	32.63	1426.34	12/08/78	30.98	1427.99
05/03/78	32.63	1426.34	12/09/78	30.24	1428.73
05/04/78	32.57	1426.40	12/10/78	29.18	1429.79
05/05/78	32.54	1426.43	12/11/78	28.81	1430.16
05/06/78	32.60	1426.37	12/12/78	28.70	1430.27
05/07/78	32.60	1426.37	12/13/78	28.19	1430.78
05/08/78	32.60	1426.37	12/14/78	27.21	1431.76
05/09/78	32.60	1426.37	12/15/78	27.55	1431.42
05/10/78	32.60	1426.37	12/16/78	27.55	1431.42
05/11/78	32.57	1426.40	12/17/78	27.02	1431.95
05/12/78	32.57	1426.40	12/18/78	26.86	1432.11
05/13/78	32.57	1426.40	12/19/78	26.77	1432.20
05/14/78	32.57	1426.40	12/20/78	26.42	1432.55
05/15/78	32.57	1426.40	12/21/78	26.20	1432.77
05/16/78	32.57	1426.40	12/22/78	25.71	1433.26
05/17/78	32.46	1426.51	12/23/78	25.53	1433.44
05/18/78	32.46	1426.51	12/24/78	25.44	1433.53
05/19/78	32.46	1426.51	12/25/78	25.43	1433.54
05/20/78	32.46	1426.51	12/26/78	25.43	1433.54
05/21/78	32.46	1426.51	12/27/78	25.56	1433.41
05/22/78	32.46	1426.51	12/28/78	25.58	1433.39
05/23/78	32.46	1426.51			
05/24/78	32.46	1426.51	02/13/79	24.50	1434.47
05/25/78	32.46	1426.51	02/14/79	24.45	1434.52
05/26/78	32.56	1426.41	02/15/79	24.68	1434.29
05/27/78	32.60	1426.37	02/16/79	24.99	1433.98
05/28/78	32.60	1426.37	02/17/79	25.06	1433.91
05/29/78	32.63	1426.34	02/18/79	25.06	1433.91
05/30/78	32.67	1426.30	02/19/79	24.98	1433.99

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl,ft)=1458.97  
SI (ft.)=0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
02/20/79	24.92	1434.05	07/21/79	11.49	1447.48
02/21/79	24.89	1434.08	07/22/79	11.57	1447.40
02/22/79	24.88	1434.09	07/23/79	11.51	1447.46
02/23/79	24.65	1434.32	07/24/79	11.68	1447.29
02/24/79	24.62	1434.35	07/25/79	11.38	1447.59
02/25/79	24.62	1434.35	07/26/79	11.06	1447.91
02/26/79	24.57	1434.40	07/27/79	11.02	1447.95
02/27/79	24.35	1434.62	07/28/79	11.27	1447.70
02/28/79	24.27	1434.70	07/29/79	11.88	1447.09
03/01/79	24.30	1434.67	07/30/79	11.09	1447.88
03/02/79	24.32	1434.65	07/31/79	11.67	1447.30
03/03/79	24.37	1434.60	08/01/79	12.36	1446.61
03/04/79	24.37	1434.60	08/02/79	12.89	1446.08
03/05/79	24.37	1434.60	08/03/79	13.35	1445.62
03/06/79	24.35	1434.62	08/04/79	12.85	1446.12
03/07/79	24.38	1434.59	08/05/79	11.98	1446.99
03/08/79	24.37	1434.60	08/06/79	14.31	1444.66
03/09/79	24.31	1434.66	08/07/79	15.42	1443.55
03/10/79	24.27	1434.70	08/08/79	15.84	1443.13
03/11/79	24.26	1434.71	08/09/79	16.00	1442.97
03/12/79	24.23	1434.74	08/10/79	16.64	1442.33
03/13/79	24.15	1434.82	08/11/79	16.88	1442.09
04/03/79	24.38	1434.59	08/12/79	17.53	1441.44
04/04/79	24.35	1434.62	08/13/79	15.50	1443.47
04/05/79	24.32	1434.65	08/14/79	17.68	1441.29
04/06/79	24.45	1434.52	08/15/79	18.14	1440.83
04/07/79	24.45	1434.52	08/16/79	18.98	1439.99
04/08/79	24.29	1434.68	08/17/79	19.84	1439.13
04/09/79	24.20	1434.77	08/21/79	21.64	1437.33
04/10/79	24.08	1434.89	08/22/79	21.65	1437.32
04/11/79	23.99	1434.98	08/23/79	12.86	1446.11
04/12/79	23.95	1435.02	08/24/79	12.92	1446.05
04/13/79	23.84	1435.13	08/25/79	15.43	1443.54
04/14/79	23.83	1435.14	08/26/79	15.15	1443.82
04/15/79	23.88	1435.09	08/27/79	16.55	1442.42
04/16/79	23.98	1434.99	08/28/79	16.69	1442.28
06/06/79	10.17	1448.80	08/29/79	16.07	1442.90
06/07/79	10.15	1448.82	08/30/79	16.95	1442.02
06/08/79	10.13	1448.84	08/31/79	16.70	1442.27
06/09/79	9.80	1449.17	09/01/79	17.44	1441.53
06/10/79	9.54	1449.43	09/02/79	17.67	1441.30
06/11/79	9.54	1449.43	09/03/79	17.75	1441.22
06/12/79	9.54	1449.43	09/04/79	17.85	1441.12
06/13/79	9.38	1449.59	09/05/79	17.86	1441.11
06/14/79	9.37	1449.60	09/06/79	18.47	1440.50
06/15/79	9.37	1449.60	09/07/79	18.47	1440.50
06/16/79	9.37	1449.60	09/08/79	18.05	1440.92
06/17/79	9.37	1449.60	09/09/79	18.16	1440.81
06/18/79	9.37	1449.60	09/10/79	17.77	1441.20
06/19/79	9.37	1449.60	09/11/79	17.77	1441.20
06/20/79	9.32	1449.65	09/12/79	17.77	1441.20
06/21/79	9.29	1449.68	09/13/79	15.69	1443.28
06/22/79	8.81	1450.16	09/14/79	17.69	1441.28
06/23/79	8.71	1450.26	09/15/79	17.93	1441.04
06/24/79	8.50	1450.47	09/16/79	16.99	1441.98
06/25/79	8.44	1450.53	09/18/79	14.72	1444.25
06/26/79	8.36	1450.61	09/19/79	14.74	1444.23
07/18/79	10.91	1448.06	09/20/79	15.77	1443.20
07/19/79	11.12	1447.85	09/21/79	16.75	1442.22
07/20/79	11.20	1447.77	09/22/79	17.13	1441.84

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1458.97  
SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/23/79	17.33	1441.64	11/22/79	14.98	1443.99
09/24/79	17.70	1441.27	11/23/79	14.72	1444.25
09/25/79	17.29	1441.68	11/24/79	14.50	1444.47
09/26/79	14.43	1444.54	11/25/79	14.48	1444.49
09/27/79	13.72	1445.25	11/26/79	14.76	1444.21
09/28/79	14.47	1444.50	11/27/79	15.35	1443.62
09/29/79	13.51	1445.46	11/28/79	15.74	1443.23
09/30/79	14.64	1444.33	11/29/79	16.07	1442.90
10/01/79	15.65	1443.32	11/30/79	16.23	1442.74
10/02/79	15.68	1443.29	12/01/79	16.69	1442.28
10/03/79	15.57	1443.40	12/02/79	16.69	1442.28
10/04/79	12.70	1446.27	12/03/79	16.66	1442.31
10/05/79	12.44	1446.53	12/04/79	16.41	1442.56
10/06/79	13.01	1445.96	12/05/79	16.06	1442.91
10/07/79	12.63	1446.34	12/06/79	16.34	1442.63
10/08/79	12.76	1446.21	12/07/79	17.72	1441.25
10/09/79	12.80	1446.17	12/08/79	17.93	1441.04
10/10/79	12.61	1446.36	12/09/79	17.50	1441.47
10/11/79	12.56	1446.41	12/10/79	17.47	1441.50
10/12/79	12.85	1446.12	12/11/79	18.13	1440.84
10/13/79	13.66	1445.31	12/12/79	18.14	1440.83
10/14/79	13.92	1445.05	12/13/79	18.24	1440.73
10/15/79	14.23	1444.74	12/14/79	18.24	1440.73
10/16/79	14.70	1444.27	12/15/79	18.51	1440.46
10/17/79	14.66	1444.31	12/16/79	18.84	1440.13
10/18/79	13.49	1445.48	12/17/79	18.84	1440.13
10/19/79	14.55	1444.42	12/18/79	18.34	1440.63
10/20/79	15.67	1443.30	12/19/79	17.79	1441.18
10/21/79	16.78	1442.19	12/20/79	17.40	1441.57
10/22/79	16.87	1442.10	12/21/79	16.89	1442.08
10/23/79	17.03	1441.94	12/22/79	16.59	1442.38
10/24/79	17.04	1441.93	12/23/79	16.90	1442.07
10/25/79	17.31	1441.66	12/24/79	17.47	1441.50
10/26/79	16.63	1442.34	12/25/79	17.59	1441.38
10/27/79	15.08	1443.89	12/26/79	17.61	1441.36
10/28/79	15.53	1443.44	12/27/79	18.07	1440.90
10/29/79	15.88	1443.09	12/28/79	18.51	1440.46
10/30/79	16.09	1442.88	12/29/79	18.52	1440.45
10/31/79	16.15	1442.82	12/30/79	18.27	1440.70
11/01/79	13.75	1445.22	12/31/79	18.24	1440.73
11/02/79	14.21	1444.76			
11/03/79	14.27	1444.70	01/01/80	18.59	1440.38
11/04/79	14.30	1444.67	01/02/80	19.38	1439.59
11/05/79	14.47	1444.50	01/03/80	19.44	1439.53
11/06/79	14.49	1444.48	01/04/80	19.03	1439.94
11/07/79	14.21	1444.76	01/05/80	18.59	1440.38
11/08/79	14.15	1444.82	01/06/80	18.09	1440.88
11/09/79	14.33	1444.64	01/07/80	18.86	1440.11
11/10/79	14.33	1444.64	01/08/80	19.50	1439.47
11/11/79	14.40	1444.57	01/09/80	19.46	1439.51
11/12/79	14.55	1444.42	01/10/80	19.17	1439.80
11/13/79	14.73	1444.24	01/11/80	19.22	1439.75
11/14/79	14.64	1444.33	01/12/80	19.55	1439.42
11/15/79	14.28	1444.69	01/13/80	19.11	1439.86
11/16/79	13.96	1445.01	01/14/80	19.24	1439.73
11/17/79	13.91	1445.06	01/15/80	19.30	1439.67
11/18/79	13.84	1445.13	01/16/80	19.48	1439.49
11/19/79	14.48	1444.49	01/17/80	19.51	1439.46
11/20/79	14.99	1443.98	01/18/80	20.16	1438.81
11/21/79	15.07	1443.90	01/19/80	20.44	1438.53

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1458.97

SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
01/20/80	18.67	1440.30	03/30/80	17.85	1441.12
01/21/80	17.82	1441.15	03/31/80	19.09	1439.88
01/22/80	17.24	1441.73	04/01/80	19.38	1439.59
01/23/80	17.40	1441.57	04/02/80	20.42	1438.55
01/24/80	17.68	1441.29	04/03/80	20.34	1438.63
01/25/80	20.08	1438.89	04/04/80	19.27	1439.70
01/26/80	19.69	1439.28	04/05/80	18.92	1440.05
01/27/80	19.62	1439.35	04/06/80	18.70	1440.27
01/28/80	20.62	1438.35	04/07/80	18.24	1440.73
01/29/80	20.73	1438.24	04/08/80	13.05	1445.92
01/30/80	21.29	1437.68	04/09/80	13.20	1445.77
01/31/80	21.35	1437.62	04/10/80	14.46	1444.51
02/01/80	21.37	1437.60	04/11/80	16.68	1442.29
02/02/80	21.94	1437.03	04/12/80	17.40	1441.57
02/03/80	22.29	1436.68	04/13/80	17.53	1441.44
02/04/80	22.38	1436.59	04/14/80	17.09	1441.88
02/05/80	22.30	1436.67	04/15/80	16.47	1442.50
02/06/80	21.63	1437.34	04/16/80	16.45	1442.52
02/07/80	20.75	1438.22	04/17/80	16.52	1442.45
02/08/80	21.07	1437.90	04/18/80	16.48	1442.49
02/09/80	21.58	1437.39	04/19/80	16.10	1442.87
02/10/80	22.84	1436.13	04/20/80	16.81	1442.16
02/11/80	22.92	1436.05	04/21/80	16.95	1442.02
02/12/80	22.51	1436.46	04/22/80	17.55	1441.42
02/13/80	21.45	1437.52	04/23/80	17.76	1441.21
02/14/80	21.46	1437.51	04/24/80	17.72	1441.25
02/15/80	22.15	1436.82	04/25/80	17.72	1441.25
02/16/80	22.45	1436.52	04/26/80	17.77	1441.20
02/17/80	22.83	1436.14	04/27/80	17.82	1441.15
02/18/80	23.13	1435.84	04/28/80	17.32	1441.65
02/19/80	23.34	1435.63	04/29/80	16.97	1442.00
02/20/80	23.26	1435.71	04/30/80	17.07	1441.90
02/21/80	23.01	1435.96	05/01/80	17.49	1441.48
02/22/80	23.36	1435.61	05/02/80	17.56	1441.41
02/23/80	23.39	1435.58	05/03/80	17.77	1441.20
03/05/80	22.47	1436.50	05/04/80	17.78	1441.19
03/06/80	22.63	1436.34	05/05/80	17.68	1441.29
03/07/80	22.74	1436.23	05/06/80	18.00	1440.97
03/08/80	22.57	1436.40	05/07/80	18.15	1440.82
03/09/80	22.46	1436.51	05/08/80	18.11	1440.86
03/10/80	22.40	1436.57	05/09/80	16.91	1442.06
03/11/80	22.40	1436.57	05/10/80	17.21	1441.76
03/12/80	22.49	1436.48	05/11/80	17.84	1441.13
03/13/80	22.71	1436.26	05/12/80	18.04	1440.93
03/14/80	22.71	1436.26	05/13/80	18.16	1440.81
03/15/80	22.69	1436.28	05/14/80	18.20	1440.77
03/16/80	22.63	1436.34	05/15/80	18.32	1440.65
03/17/80	22.58	1436.39	05/16/80	18.54	1440.43
03/18/80	22.76	1436.21	05/17/80	19.01	1439.96
03/19/80	22.97	1436.00	05/18/80	19.48	1439.49
03/20/80	22.97	1436.00	05/19/80	19.63	1439.34
03/21/80	22.74	1436.23	05/20/80	20.12	1438.85
03/22/80	22.34	1436.63	05/21/80	21.41	1437.56
03/23/80	22.08	1436.89	05/22/80	22.04	1436.93
03/24/80	21.92	1437.05	05/23/80	22.08	1436.89
03/25/80	21.91	1437.06	05/24/80	22.42	1436.55
03/26/80	21.98	1436.99	05/25/80	22.20	1436.77
03/27/80	21.95	1437.02	05/26/80	22.58	1436.39
03/28/80	21.79	1437.18	05/27/80	23.22	1435.75
03/29/80	19.81	1439.16	05/28/80	23.25	1435.72

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1458.97  
 SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/29/80	22.26	1436.71	07/28/80	25.18	1433.79
05/30/80	23.30	1435.67	07/29/80	25.18	1433.79
05/31/80	23.62	1435.35	07/30/80	25.22	1433.75
06/01/80	23.18	1435.79	07/31/80	25.28	1433.69
06/02/80	23.69	1435.28	08/01/80	25.27	1433.70
06/03/80	24.04	1434.93	08/02/80	25.22	1433.75
06/04/80	23.93	1435.04	08/03/80	25.20	1433.77
06/05/80	16.88	1442.09	08/04/80	25.13	1433.84
06/06/80	18.19	1440.78	08/05/80	24.99	1433.98
06/07/80	18.33	1440.64	08/06/80	24.98	1433.99
06/08/80	19.16	1439.81	08/07/80	25.03	1433.94
06/09/80	19.48	1439.49	08/08/80	25.08	1433.89
06/10/80	19.25	1439.72	08/09/80	25.14	1433.83
06/11/80	20.33	1438.64	08/10/80	25.23	1433.74
06/12/80	21.08	1437.89	08/11/80	25.29	1433.68
06/13/80	22.16	1436.81	08/12/80	25.34	1433.63
06/14/80	22.45	1436.52	08/13/80	25.34	1433.63
06/15/80	22.38	1436.59	08/14/80	25.18	1433.79
06/16/80	22.76	1436.21	08/15/80	25.13	1433.84
06/17/80	22.66	1436.31	08/16/80	25.09	1433.88
06/18/80	22.97	1436.00	08/17/80	25.04	1433.93
06/19/80	23.31	1435.66	08/18/80	24.99	1433.98
06/20/80	23.38	1435.59	08/19/80	24.97	1434.00
06/21/80	23.18	1435.79	08/20/80	24.94	1434.03
06/22/80	22.03	1436.94	08/21/80	23.40	1435.57
06/23/80	22.14	1436.83	08/22/80	23.97	1435.00
06/24/80	22.55	1436.42	08/23/80	24.23	1434.74
06/25/80	23.23	1435.74	08/24/80	24.30	1434.67
06/26/80	23.84	1435.13	08/25/80	24.39	1434.58
06/27/80	23.92	1435.05	08/26/80	24.50	1434.47
06/28/80	23.95	1435.02	08/27/80	24.55	1434.42
06/29/80	24.12	1434.85	08/28/80	24.59	1434.38
06/30/80	24.09	1434.88	08/29/80	24.60	1434.37
07/01/80	24.12	1434.85	08/30/80	23.94	1435.03
07/02/80	24.19	1434.78	08/31/80	24.03	1434.94
07/03/80	24.10	1434.87	09/01/80	24.08	1434.89
07/04/80	24.03	1434.94	09/02/80	24.16	1434.81
07/05/80	24.34	1434.63	09/03/80	24.16	1434.81
07/06/80	24.35	1434.62	09/04/80	24.15	1434.82
07/07/80	24.25	1434.72	09/05/80	24.20	1434.77
07/08/80	24.35	1434.62	09/06/80	24.27	1434.70
07/09/80	24.27	1434.70	09/07/80	24.36	1434.61
07/10/80	24.20	1434.77	09/08/80	24.36	1434.61
07/11/80	24.21	1434.76	09/09/80	24.47	1434.50
07/12/80	24.39	1434.58	09/10/80	24.60	1434.37
07/13/80	24.40	1434.57	09/11/80	24.64	1434.33
07/14/80	23.79	1435.18	09/12/80	24.39	1434.58
07/15/80	24.38	1434.59	09/13/80	17.11	1441.86
07/16/80	24.57	1434.40	09/14/80	18.67	1440.30
07/17/80	24.62	1434.35	09/20/80	13.95	1445.02
07/18/80	24.81	1434.16	09/21/80	13.78	1445.19
07/19/80	24.93	1434.04	09/22/80	14.03	1444.94
07/20/80	24.96	1434.01	09/23/80	13.92	1445.05
07/21/80	24.97	1434.00	09/24/80	13.69	1445.28
07/22/80	24.94	1434.03	09/25/80	13.75	1445.22
07/23/80	24.88	1434.09	09/26/80	13.70	1445.27
07/24/80	24.89	1434.08	09/27/80	13.67	1445.30
07/25/80	25.07	1433.90	09/28/80	13.53	1445.44
07/26/80	25.15	1433.82	09/29/80	13.42	1445.55
07/27/80	25.16	1433.81	09/30/80	13.60	1445.37

153-064-19AAB3 R (Continued)

Spiritwood Aquifer

LS Elev (msl, ft)=1458.97

SI (ft.)=0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/80	13.66	1445.31	12/08/80	20.97	1438.00
10/02/80	13.89	1445.08	12/09/80	20.98	1437.99
10/03/80	13.66	1445.31	12/10/80	20.98	1437.99
10/04/80	13.73	1445.24	12/11/80	21.04	1437.93
10/05/80	13.86	1445.11	12/12/80	20.58	1438.39
10/06/80	13.89	1445.08	12/13/80	20.98	1437.99
10/07/80	13.80	1445.17	12/14/80	21.13	1437.84
10/08/80	13.85	1445.12	12/15/80	21.14	1437.83
10/09/80	13.92	1445.05	12/16/80	21.15	1437.82
10/10/80	14.54	1444.43	12/17/80	21.15	1437.82
10/11/80	14.96	1444.01			
10/12/80	14.53	1444.44	04/07/81	13.55	1445.42
10/13/80	14.37	1444.60	04/08/81	13.45	1445.52
10/14/80	14.57	1444.40	04/09/81	13.43	1445.54
10/15/80	14.96	1444.01	04/10/81	13.64	1445.33
10/16/80	14.85	1444.12	04/11/81	13.71	1445.26
10/17/80	14.07	1444.90	04/12/81	13.64	1445.33
10/18/80	14.65	1444.32	04/13/81	13.82	1445.15
10/19/80	14.33	1444.64	04/14/81	13.86	1445.11
10/20/80	14.14	1444.83	04/15/81	13.69	1445.28
10/21/80	14.12	1444.85	04/16/81	13.51	1445.46
10/30/80	13.72	1445.25	04/17/81	13.82	1445.15
10/31/80	13.71	1445.26	04/18/81	13.84	1445.13
11/01/80	13.71	1445.26	04/19/81	13.86	1445.11
11/02/80	13.56	1445.41	04/20/81	13.86	1445.11
11/03/80	13.77	1445.20	04/21/81	13.58	1445.39
11/04/80	13.83	1445.14	04/22/81	13.69	1445.28
11/05/80	13.83	1445.14	04/23/81	13.71	1445.26
11/06/80	13.66	1445.31	04/24/81	13.68	1445.29
11/07/80	13.76	1445.21	04/25/81	13.64	1445.33
11/08/80	13.88	1445.09	04/26/81	13.72	1445.25
11/09/80	15.41	1443.56	04/27/81	13.77	1445.20
11/10/80	15.53	1443.44	04/28/81	13.78	1445.19
11/11/80	14.83	1444.14	04/29/81	13.78	1445.19
11/12/80	14.65	1444.32	04/30/81	13.90	1445.07
11/13/80	15.65	1443.32	05/01/81	13.94	1445.03
11/14/80	15.80	1443.17	05/02/81	13.77	1445.20
11/15/80	15.90	1443.07	05/03/81	13.96	1445.01
11/16/80	16.82	1442.15	05/04/81	14.09	1444.88
11/17/80	16.84	1442.13	05/05/81	14.10	1444.87
11/18/80	15.75	1443.22	05/06/81	14.06	1444.91
11/19/80	15.75	1443.22	05/07/81	13.92	1445.05
11/20/80	16.70	1442.27	05/08/81	13.85	1445.12
11/21/80	16.65	1442.32	05/09/81	14.10	1444.87
11/22/80	16.16	1442.81	05/10/81	14.06	1444.91
11/23/80	17.34	1441.63	05/11/81	13.96	1445.01
11/24/80	17.52	1441.45	05/12/81	14.02	1444.95
11/25/80	17.56	1441.41	05/13/81	14.06	1444.91
11/26/80	17.53	1441.44	05/14/81	14.06	1444.91
11/27/80	17.52	1441.45	05/15/81	14.01	1444.96
11/28/80	17.00	1441.97	05/16/81	14.18	1444.79
11/29/80	16.94	1442.03	05/17/81	14.24	1444.73
11/30/80	16.72	1442.25	05/18/81	14.31	1444.66
12/01/80	18.61	1440.36	05/19/81	14.29	1444.68
12/02/80	19.79	1439.18	05/20/81	14.24	1444.73
12/03/80	20.08	1438.89	05/21/81	14.26	1444.71
12/04/80	20.16	1438.81	05/22/81	14.08	1444.89
12/05/80	19.92	1439.05	05/23/81	14.20	1444.77
12/06/80	20.66	1438.31	05/24/81	14.25	1444.72
12/07/80	20.91	1438.06	05/25/81	14.28	1444.69

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl,ft)=1458.97  
SI (ft.)=0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/26/81	14.28	1444.69	07/25/81	11.00	1447.97
05/27/81	14.27	1444.70	07/26/81	11.00	1447.97
05/28/81	14.22	1444.75	07/27/81	10.99	1447.98
05/29/81	14.25	1444.72	07/28/81	10.94	1448.03
05/30/81	14.36	1444.61	07/29/81	24.24	1434.73
05/31/81	14.27	1444.70	07/30/81	23.87	1435.10
06/01/81	14.14	1444.83	07/31/81	23.01	1435.96
06/02/81	13.18	1445.79	08/01/81	22.74	1436.23
06/03/81	13.36	1445.61	08/02/81	22.12	1436.85
06/04/81	13.35	1445.62	08/03/81	21.96	1437.01
06/05/81	13.01	1445.96	08/04/81	21.92	1437.05
06/06/81	13.03	1445.94	08/05/81	21.57	1437.40
06/07/81	12.92	1446.05	08/06/81	21.38	1437.59
06/08/81	12.82	1446.15	08/07/81	21.34	1437.63
06/09/81	12.75	1446.22	08/08/81	21.28	1437.69
06/10/81	12.69	1446.28	08/09/81	20.98	1437.99
06/11/81	12.64	1446.33	08/10/81	21.18	1437.79
06/12/81	12.59	1446.38	08/11/81	21.21	1437.76
06/13/81	12.42	1446.55	08/12/81	21.38	1437.59
06/14/81	12.15	1446.82	08/13/81	21.39	1437.58
06/15/81	12.15	1446.82	08/14/81	21.42	1437.55
06/16/81	12.15	1446.82	08/15/81	21.70	1437.27
06/17/81	11.95	1447.02	08/16/81	21.60	1437.37
06/18/81	11.81	1447.16	08/17/81	21.58	1437.39
06/19/81	11.80	1447.17	08/18/81	21.59	1437.38
06/20/81	11.61	1447.36	08/19/81	21.66	1437.31
06/21/81	11.49	1447.48	08/20/81	21.42	1437.55
06/22/81	11.52	1447.45	08/21/81	21.62	1437.35
06/23/81	11.51	1447.46	08/22/81	21.25	1437.72
06/24/81	11.32	1447.65	08/23/81	21.39	1437.58
06/25/81	11.35	1447.62	08/24/81	21.48	1437.49
06/26/81	11.32	1447.65	08/25/81	21.49	1437.48
06/27/81	11.10	1447.87	08/26/81	21.83	1437.14
06/28/81	11.00	1447.97	08/27/81	22.44	1436.53
06/29/81	11.08	1447.89	08/28/81	22.43	1436.54
06/30/81	11.09	1447.88	08/29/81	22.77	1436.20
07/01/81	10.97	1448.00	08/30/81	23.05	1435.92
07/02/81	10.86	1448.11	08/31/81	23.47	1435.50
07/03/81	10.87	1448.10	09/01/81	23.88	1435.09
07/04/81	10.86	1448.11	09/02/81	23.46	1435.51
07/05/81	10.82	1448.15	09/03/81	23.20	1435.77
07/06/81	10.80	1448.17	09/04/81	23.06	1435.91
07/07/81	10.75	1448.22	09/05/81	22.85	1436.12
07/08/81	10.97	1448.00	09/06/81	22.53	1436.44
07/09/81	11.01	1447.96	09/07/81	19.81	1439.16
07/10/81	10.97	1448.00	09/08/81	19.64	1439.33
07/11/81	10.82	1448.15	09/09/81	19.27	1439.70
07/12/81	10.80	1448.17	09/10/81	20.23	1438.74
07/13/81	10.84	1448.13	09/11/81	20.45	1438.52
07/14/81	10.83	1448.14	09/12/81	20.53	1438.44
07/15/81	10.87	1448.10	09/13/81	21.25	1437.72
07/16/81	10.84	1448.13	09/14/81	21.60	1437.37
07/17/81	10.85	1448.12	09/15/81	21.60	1437.37
07/18/81	10.86	1448.11	09/16/81	21.78	1437.19
07/19/81	10.83	1448.14	09/17/81	21.81	1437.16
07/20/81	10.82	1448.15	09/18/81	21.37	1437.60
07/21/81	10.86	1448.11	09/19/81	21.28	1437.69
07/22/81	10.87	1448.10	09/20/81	21.26	1437.71
07/23/81	10.84	1448.13	09/21/81	21.92	1437.05
07/24/81	10.93	1448.04	09/22/81	22.05	1436.92

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

**LS Elev (msl,ft)=1458.97**  
**SI (ft.)=0-122**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/23/81	22.23	1436.74	11/22/81	23.04	1435.93
09/24/81	22.27	1436.70	11/23/81	23.49	1435.48
09/25/81	22.18	1436.79	11/24/81	23.59	1435.38
09/26/81	21.40	1437.57	11/25/81	23.45	1435.52
09/27/81	21.80	1437.17	11/26/81	23.49	1435.48
09/28/81	21.73	1437.24	11/27/81	23.81	1435.16
09/29/81	21.23	1437.74	11/28/81	23.81	1435.16
09/30/81	20.91	1438.06	11/29/81	23.58	1435.39
10/01/81	21.21	1437.76	11/30/81	23.09	1435.88
10/02/81	21.16	1437.81	12/01/81	23.08	1435.89
10/03/81	20.79	1438.18	12/02/81	23.06	1435.91
10/04/81	21.66	1437.31	12/03/81	23.88	1435.09
10/05/81	22.30	1436.67	12/04/81	24.14	1434.83
10/06/81	22.51	1436.46	12/05/81	23.94	1435.03
10/07/81	22.29	1436.68	12/06/81	22.83	1436.14
10/08/81	22.00	1436.97	12/07/81	23.81	1435.16
10/09/81	22.39	1436.58	12/08/81	24.28	1434.69
10/10/81	22.77	1436.20	12/09/81	24.29	1434.68
10/11/81	22.78	1436.19	12/10/81	23.59	1435.38
10/12/81	22.66	1436.31	12/11/81	23.12	1435.85
10/13/81	22.97	1436.00	12/12/81	23.35	1435.62
10/14/81	23.00	1435.97	12/13/81	23.72	1435.25
10/15/81	22.96	1436.01	12/14/81	23.76	1435.21
10/16/81	22.93	1436.04	12/15/81	22.66	1436.31
10/17/81	22.63	1436.34	12/16/81	23.37	1435.60
10/18/81	22.98	1435.99	12/17/81	23.99	1434.98
10/19/81	22.60	1436.37	12/18/81	23.93	1435.04
10/20/81	22.90	1436.07	12/19/81	23.57	1435.40
10/21/81	23.13	1435.84	12/20/81	22.36	1436.61
10/22/81	23.00	1435.97	12/21/81	22.31	1436.66
10/23/81	23.04	1435.93	12/22/81	23.34	1435.63
10/24/81	22.43	1436.54	12/23/81	23.34	1435.63
10/25/81	22.71	1436.26	12/24/81	23.55	1435.42
10/26/81	22.56	1436.41	12/25/81	23.71	1435.26
10/27/81	23.08	1435.89	12/26/81	23.57	1435.40
10/28/81	22.97	1436.00	12/27/81	23.59	1435.38
10/29/81	22.61	1436.36	12/28/81	24.07	1434.90
10/30/81	22.83	1436.14	12/29/81	24.30	1434.67
10/31/81	23.42	1435.55	12/30/81	24.19	1434.78
11/01/81	23.42	1435.55			
11/02/81	23.54	1435.43	01/20/82	25.17	1433.80
11/03/81	23.37	1435.60	01/21/82	25.16	1433.81
11/04/81	23.00	1435.97	01/22/82	24.49	1434.48
11/05/81	23.11	1435.86	01/23/82	24.25	1434.72
11/06/81	23.10	1435.87	01/24/82	24.28	1434.69
11/07/81	22.86	1436.11	01/25/82	24.26	1434.71
11/08/81	23.63	1435.34	01/26/82	24.26	1434.71
11/09/81	23.63	1435.34	01/27/82	24.15	1434.82
11/10/81	23.13	1435.84	01/28/82	24.51	1434.46
11/11/81	23.19	1435.78	01/29/82	24.50	1434.47
11/12/81	23.00	1435.97	01/30/82	24.51	1434.46
11/13/81	22.86	1436.11	01/31/82	24.51	1434.46
11/14/81	22.97	1436.00	02/01/82	24.31	1434.66
11/15/81	23.14	1435.83	02/02/82	24.70	1434.27
11/16/81	23.48	1435.49	02/03/82	24.90	1434.07
11/17/81	23.58	1435.39	02/04/82	24.91	1434.06
11/18/81	23.65	1435.32	02/05/82	24.86	1434.11
11/19/81	23.79	1435.18	02/06/82	24.61	1434.36
11/20/81	23.71	1435.26	02/07/82	24.42	1434.55
11/21/81	23.48	1435.49	02/08/82	24.39	1434.58

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1458.97  
SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
02/09/82	24.40	1434.57	05/02/82	15.55	1443.42
02/10/82	24.27	1434.70	05/03/82	13.15	1445.82
02/11/82	24.05	1434.92	05/04/82	12.29	1446.68
02/12/82	24.05	1434.92	05/05/82	12.25	1446.72
02/13/82	23.89	1435.08	05/06/82	13.56	1445.41
02/14/82	23.55	1435.42	05/07/82	13.77	1445.20
02/15/82	23.87	1435.10	05/08/82	13.97	1445.00
02/16/82	23.87	1435.10	05/09/82	13.99	1444.98
02/17/82	23.67	1435.30	05/10/82	13.86	1445.11
02/18/82	23.56	1435.41	05/11/82	14.51	1444.46
02/19/82	23.56	1435.41	05/12/82	14.77	1444.20
02/20/82	23.49	1435.48	05/13/82	15.20	1443.77
02/21/82	23.50	1435.47	05/14/82	15.39	1443.58
02/22/82	24.50	1434.47	05/15/82	15.39	1443.58
02/23/82	24.65	1434.32	05/16/82	15.07	1443.90
02/24/82	24.58	1434.39	05/17/82	10.93	1448.04
02/25/82	24.51	1434.46	07/13/82	15.05	1443.92
02/26/82	24.41	1434.56	07/14/82	14.84	1444.13
02/27/82	24.41	1434.56	07/15/82	14.54	1444.43
02/28/82	24.41	1434.56	07/16/82	14.53	1444.44
03/01/82	24.07	1434.90	07/17/82	14.26	1444.71
03/02/82	24.08	1434.89	07/18/82	14.23	1444.74
03/03/82	24.08	1434.89	07/19/82	14.29	1444.68
03/04/82	24.04	1434.93	07/20/82	14.43	1444.54
03/05/82	22.54	1436.43	07/21/82	14.50	1444.47
03/06/82	22.37	1436.60	07/22/82	14.43	1444.54
03/07/82	22.39	1436.58	07/23/82	14.43	1444.54
03/08/82	22.35	1436.62	07/24/82	14.54	1444.43
03/09/82	22.36	1436.61	07/25/82	14.66	1444.31
03/10/82	22.37	1436.60	07/26/82	14.68	1444.29
03/11/82	22.39	1436.58	07/27/82	14.77	1444.20
03/12/82	22.28	1436.69	07/28/82	14.91	1444.06
03/13/82	22.31	1436.66	07/29/82	14.91	1444.06
03/14/82	22.35	1436.62	07/30/82	14.91	1444.06
03/15/82	22.35	1436.62	07/31/82	14.84	1444.13
03/16/82	22.15	1436.82	08/01/82	14.83	1444.14
03/17/82	22.32	1436.65	08/02/82	14.84	1444.13
03/18/82	22.37	1436.60	08/03/82	14.89	1444.08
03/19/82	22.37	1436.60	08/28/82	17.15	1441.82
03/20/82	22.31	1436.66	08/29/82	17.11	1441.86
03/21/82	22.24	1436.73	08/30/82	16.98	1441.99
03/22/82	22.28	1436.69	08/31/82	16.86	1442.11
03/23/82	22.22	1436.75	09/01/82	16.68	1442.29
03/24/82	22.15	1436.82	09/02/82	16.58	1442.39
03/25/82	22.21	1436.76	09/03/82	16.59	1442.38
03/26/82	22.25	1436.72	09/04/82	16.59	1442.38
03/27/82	22.25	1436.72	09/05/82	16.62	1442.35
03/28/82	22.18	1436.79	09/06/82	16.65	1442.32
03/29/82	22.07	1436.90	09/07/82	16.62	1442.35
03/30/82	21.92	1437.05	09/08/82	16.46	1442.51
03/31/82	22.08	1436.89	09/09/82	16.37	1442.60
04/23/82	16.25	1442.72	09/10/82	16.28	1442.69
04/24/82	16.55	1442.42	09/11/82	15.88	1443.09
04/25/82	16.55	1442.42	09/12/82	15.30	1443.67
04/26/82	14.75	1444.22	09/13/82	14.74	1444.23
04/27/82	14.31	1444.66	09/14/82	14.58	1444.39
04/28/82	14.27	1444.70	09/15/82	14.57	1444.40
04/29/82	16.08	1442.89	09/16/82	14.54	1444.43
04/30/82	17.45	1441.52	09/17/82	14.45	1444.52
05/01/82	17.45	1441.52	09/18/82	14.43	1444.54

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1458.97  
SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/19/82	14.47	1444.50	11/22/82	13.07	1445.90
09/20/82	14.64	1444.33	11/23/82	12.78	1446.19
09/21/82	14.77	1444.20	11/24/82	12.62	1446.35
09/22/82	14.90	1444.07	11/25/82	12.52	1446.45
09/23/82	15.12	1443.85	11/26/82	12.62	1446.35
09/24/82	15.41	1443.56	11/27/82	12.73	1446.24
09/25/82	15.54	1443.43	11/28/82	12.78	1446.19
09/26/82	15.60	1443.37	12/01/82	12.89	1446.08
09/27/82	15.63	1443.34	12/02/82	12.90	1446.07
09/28/82	15.63	1443.34	12/03/82	13.04	1445.93
09/29/82	15.66	1443.31	12/04/82	13.08	1445.89
09/30/82	15.83	1443.14	12/05/82	13.13	1445.84
10/01/82	15.91	1443.06	12/06/82	13.13	1445.84
10/02/82	15.91	1443.06			
10/03/82	15.82	1443.15	01/12/83	10.36	1448.61
10/04/82	15.80	1443.17	01/13/83	10.39	1448.58
10/05/82	15.81	1443.16	01/14/83	10.81	1448.16
10/06/82	15.81	1443.16	01/15/83	10.77	1448.20
10/07/82	15.76	1443.21	01/16/83	10.57	1448.40
10/08/82	15.66	1443.31	01/17/83	10.64	1448.33
10/09/82	15.64	1443.33	01/18/83	10.63	1448.34
10/10/82	15.53	1443.44	01/19/83	10.32	1448.65
10/15/82	15.01	1443.96	01/20/83	10.46	1448.51
10/16/82	14.92	1444.05	01/21/83	10.48	1448.49
10/17/82	14.78	1444.19	01/22/83	10.52	1448.45
10/18/82	14.51	1444.46	01/23/83	10.55	1448.42
10/19/82	14.44	1444.53	01/24/83	10.64	1448.33
10/20/82	14.44	1444.53	01/25/83	10.60	1448.37
10/21/82	14.44	1444.53	01/26/83	10.53	1448.44
10/22/82	14.42	1444.55	01/27/83	10.30	1448.67
10/23/82	14.35	1444.62	01/28/83	10.26	1448.71
10/24/82	14.28	1444.69	01/29/83	10.39	1448.58
10/25/82	14.26	1444.71	01/30/83	10.51	1448.46
10/26/82	14.26	1444.71	01/31/83	10.54	1448.43
10/27/82	14.23	1444.74	02/01/83	10.50	1448.47
10/28/82	14.12	1444.85	02/02/83	10.57	1448.40
10/29/82	14.05	1444.92	02/03/83	10.58	1448.39
10/30/82	14.09	1444.88	02/04/83	10.58	1448.39
10/31/82	14.17	1444.80	02/05/83	10.57	1448.40
11/01/82	14.22	1444.75	02/06/83	10.57	1448.40
11/02/82	14.30	1444.67	02/07/83	10.45	1448.52
11/03/82	14.41	1444.56	02/08/83	10.55	1448.42
11/04/82	14.47	1444.50	02/09/83	10.55	1448.42
11/05/82	14.47	1444.50	02/10/83	10.57	1448.40
11/06/82	14.44	1444.53	02/11/83	10.78	1448.19
11/07/82	14.29	1444.68	02/12/83	10.76	1448.21
11/08/82	14.41	1444.56	02/13/83	10.59	1448.38
11/09/82	14.49	1444.48	02/14/83	10.82	1448.15
11/10/82	14.49	1444.48	02/15/83	10.82	1448.15
11/11/82	14.41	1444.56	02/16/83	10.85	1448.12
11/12/82	14.39	1444.58	02/17/83	10.90	1448.07
11/13/82	14.39	1444.58	02/18/83	10.78	1448.19
11/14/82	14.30	1444.67	02/19/83	11.07	1447.90
11/15/82	14.00	1444.97	02/20/83	11.15	1447.82
11/16/82	13.74	1445.23	02/21/83	11.12	1447.85
11/17/82	13.75	1445.22	02/22/83	10.93	1448.04
11/18/82	13.75	1445.22	02/23/83	11.03	1447.94
11/19/82	13.75	1445.22	02/24/83	11.09	1447.88
11/20/82	13.89	1445.08	02/25/83	11.05	1447.92
11/21/82	13.89	1445.08	02/26/83	11.04	1447.93

153-064-19AAB3 R (Continued)  
Spiritwood Aquifer

LS Elev (msl, ft)=1458.97  
SI (ft.)=0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
02/27/83	11.09	1447.88	05/20/83	9.66	1449.31
02/28/83	11.13	1447.84	05/21/83	9.62	1449.35
03/01/83	11.10	1447.87	05/22/83	9.73	1449.24
03/02/83	11.02	1447.95	05/23/83	9.84	1449.13
03/03/83	11.06	1447.91	05/24/83	9.95	1449.02
03/04/83	11.11	1447.86	06/15/83	14.04	1444.93
03/05/83	11.15	1447.82	06/16/83	14.20	1444.77
03/06/83	11.03	1447.94	06/17/83	14.32	1444.65
03/07/83	11.03	1447.94	06/18/83	14.44	1444.53
03/08/83	11.04	1447.93	06/19/83	14.90	1444.07
03/09/83	11.04	1447.93	06/20/83	14.92	1444.05
03/10/83	10.94	1448.03	06/21/83	15.69	1443.28
03/11/83	10.82	1448.15	06/22/83	15.85	1443.12
03/12/83	10.63	1448.34	06/23/83	16.15	1442.82
03/13/83	10.71	1448.26	06/24/83	16.09	1442.88
03/14/83	10.74	1448.23	06/25/83	16.69	1442.28
03/15/83	10.85	1448.12	06/26/83	17.10	1441.87
03/16/83	10.85	1448.12	06/27/83	17.29	1441.68
03/17/83	10.85	1448.12	06/28/83	17.51	1441.46
03/18/83	10.82	1448.15	06/29/83	17.54	1441.43
03/19/83	10.84	1448.13	06/30/83	18.06	1440.91
03/20/83	10.86	1448.11	07/01/83	18.38	1440.59
03/21/83	10.86	1448.11	07/02/83	18.47	1440.50
03/22/83	10.95	1448.02	07/03/83	16.88	1442.09
03/23/83	10.96	1448.01	07/04/83	16.92	1442.05
03/24/83	10.95	1448.02	07/05/83	17.20	1441.77
03/25/83	11.02	1447.95	07/19/83	19.25	1439.72
03/26/83	11.14	1447.83	07/20/83	19.11	1439.86
03/27/83	11.14	1447.83	07/21/83	19.02	1439.95
03/28/83	11.09	1447.88	07/22/83	19.04	1439.93
03/29/83	11.14	1447.83	07/23/83	19.09	1439.88
03/30/83	11.14	1447.83	07/24/83	19.02	1439.95
03/31/83	11.00	1447.97	07/25/83	19.01	1439.96
04/01/83	11.32	1447.65	07/26/83	19.00	1439.97
04/02/83	11.32	1447.65	07/27/83	19.00	1439.97
04/03/83	11.23	1447.74	07/28/83	19.12	1439.85
04/04/83	11.32	1447.65	07/29/83	19.10	1439.87
04/05/83	11.33	1447.64	07/30/83	19.07	1439.90
04/06/83	11.28	1447.69	07/31/83	19.03	1439.94
04/07/83	11.23	1447.74	08/01/83	19.02	1439.95
04/08/83	11.17	1447.80	08/02/83	22.25	1436.72
04/09/83	11.22	1447.75	08/03/83	22.25	1436.72
04/10/83	11.04	1447.93	08/04/83	22.22	1436.75
05/03/83	9.60	1449.37	08/05/83	22.22	1436.75
05/04/83	9.57	1449.40	08/06/83	22.21	1436.76
05/05/83	9.60	1449.37	08/07/83	22.06	1436.91
05/06/83	9.65	1449.32	08/08/83	22.03	1436.94
05/07/83	9.61	1449.36	08/09/83	21.98	1436.99
05/08/83	9.56	1449.41	08/10/83	21.88	1437.09
05/09/83	9.39	1449.58	08/11/83	21.96	1437.01
05/10/83	9.39	1449.58	08/12/83	21.96	1437.01
05/11/83	9.55	1449.42	08/13/83	22.18	1436.79
05/12/83	9.56	1449.41	08/14/83	22.21	1436.76
05/13/83	9.51	1449.46	08/15/83	22.22	1436.75
05/14/83	9.66	1449.31	08/16/83	22.37	1436.60
05/15/83	9.71	1449.26	08/17/83	22.40	1436.57
05/16/83	9.73	1449.24	08/18/83	22.15	1436.82
05/17/83	9.71	1449.26	08/19/83	22.42	1436.55
05/18/83	9.65	1449.32	08/20/83	22.39	1436.58
05/19/83	9.61	1449.36	08/21/83	22.14	1436.83

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1458.97

SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/22/83	22.19	1436.78	10/21/83	20.04	1438.93
08/23/83	22.19	1436.78	10/22/83	19.87	1439.10
08/24/83	22.19	1436.78	10/23/83	19.81	1439.16
08/25/83	22.40	1436.57	10/24/83	19.84	1439.13
08/26/83	22.27	1436.70	10/25/83	19.85	1439.12
08/27/83	22.41	1436.56	10/26/83	19.74	1439.23
08/28/83	22.40	1436.57	10/27/83	19.63	1439.34
08/29/83	21.95	1437.02	10/28/83	19.72	1439.25
08/30/83	22.11	1436.86	10/29/83	19.73	1439.24
08/31/83	22.17	1436.80	10/30/83	19.60	1439.37
09/01/83	22.19	1436.78	10/31/83	19.47	1439.50
09/02/83	22.20	1436.77	11/01/83	19.45	1439.52
09/03/83	22.20	1436.77	11/02/83	19.53	1439.44
09/04/83	22.17	1436.80	11/03/83	19.54	1439.43
09/05/83	22.15	1436.82	11/04/83	19.46	1439.51
09/06/83	22.13	1436.84	11/05/83	19.23	1439.74
09/07/83	22.21	1436.76	11/06/83	19.24	1439.73
09/08/83	22.20	1436.77	11/07/83	19.16	1439.81
09/09/83	22.20	1436.77	11/08/83	19.24	1439.73
09/10/83	22.37	1436.60	11/09/83	19.26	1439.71
09/11/83	22.39	1436.58	11/10/83	19.23	1439.74
09/12/83	22.32	1436.65	11/11/83	19.11	1439.86
09/13/83	22.33	1436.64	11/12/83	19.02	1439.95
09/14/83	21.97	1437.00	11/13/83	18.85	1440.12
09/15/83	21.83	1437.14	11/14/83	18.89	1440.08
09/16/83	21.64	1437.33	11/15/83	18.99	1439.98
09/17/83	21.62	1437.35	11/16/83	18.99	1439.98
09/18/83	21.45	1437.52	11/17/83	18.80	1440.17
09/19/83	21.29	1437.68	11/18/83	18.63	1440.34
09/20/83	21.32	1437.65	11/19/83	18.62	1440.35
09/21/83	21.30	1437.67	11/20/83	18.56	1440.41
09/22/83	21.31	1437.66	11/21/83	18.63	1440.34
09/23/83	21.29	1437.68	11/22/83	18.66	1440.31
09/24/83	21.20	1437.77	11/23/83	18.60	1440.37
09/25/83	21.32	1437.65	11/24/83	18.38	1440.59
09/26/83	21.33	1437.64	11/25/83	18.37	1440.60
09/27/83	21.23	1437.74	11/26/83	18.52	1440.45
09/28/83	21.17	1437.80	11/27/83	18.56	1440.41
09/29/83	21.20	1437.77	11/28/83	18.50	1440.47
09/30/83	21.17	1437.80	11/29/83	18.70	1440.27
10/01/83	20.96	1438.01	11/30/83	18.84	1440.13
10/02/83	20.85	1438.12	12/01/83	18.84	1440.13
10/03/83	20.74	1438.23	12/02/83	18.82	1440.15
10/04/83	20.73	1438.24	12/03/83	18.81	1440.16
10/05/83	20.66	1438.31	12/04/83	18.60	1440.37
10/06/83	20.67	1438.30	12/05/83	18.61	1440.36
10/07/83	20.56	1438.41	12/06/83	18.54	1440.43
10/08/83	20.59	1438.38	12/07/83	18.45	1440.52
10/09/83	20.57	1438.40	12/08/83	18.42	1440.55
10/10/83	20.33	1438.64	12/09/83	18.40	1440.57
10/11/83	20.24	1438.73	12/10/83	18.33	1440.64
10/12/83	20.25	1438.72	12/11/83	18.25	1440.72
10/13/83	20.15	1438.82	12/12/83	18.25	1440.72
10/14/83	20.11	1438.86	12/13/83	18.18	1440.79
10/15/83	20.17	1438.80	12/14/83	18.13	1440.84
10/16/83	20.21	1438.76	12/15/83	18.12	1440.85
10/17/83	20.22	1438.75	12/16/83	18.09	1440.88
10/18/83	20.21	1438.76	12/17/83	18.27	1440.70
10/19/83	20.13	1438.84	12/18/83	18.31	1440.66
10/20/83	20.14	1438.83	12/19/83	18.32	1440.65

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1458.97  
SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
12/20/83	18.30	1440.67	02/17/84	17.60	1441.37
12/21/83	18.27	1440.70	02/18/84	17.60	1441.37
12/22/83	18.15	1440.82	02/19/84	17.56	1441.41
12/23/83	18.21	1440.76	02/20/84	17.50	1441.47
12/24/83	18.29	1440.68	02/21/84	17.42	1441.55
12/25/83	18.18	1440.79	02/22/84	17.20	1441.77
12/26/83	18.35	1440.62	02/23/84	17.28	1441.69
12/27/83	18.35	1440.62	02/24/84	17.31	1441.66
12/28/83	18.31	1440.66	02/25/84	17.31	1441.66
12/29/83	18.31	1440.66	02/26/84	17.34	1441.63
12/30/83	18.21	1440.76	02/27/84	17.34	1441.63
12/31/83	18.10	1440.87	02/28/84	17.34	1441.63
			02/29/84	17.34	1441.63
01/01/84	18.10	1440.87	03/01/84	16.96	1442.01
01/02/84	18.05	1440.92	03/02/84	16.87	1442.10
01/03/84	17.95	1441.02	03/03/84	16.78	1442.19
01/04/84	17.73	1441.24	03/04/84	16.59	1442.38
01/05/84	17.73	1441.24	03/05/84	16.61	1442.36
01/06/84	17.69	1441.28	03/06/84	16.59	1442.38
01/07/84	17.73	1441.24	03/07/84	16.64	1442.33
01/08/84	17.73	1441.24	03/08/84	16.76	1442.21
01/09/84	17.73	1441.24	03/09/84	16.71	1442.26
01/10/84	17.73	1441.24	03/10/84	16.62	1442.35
01/11/84	17.73	1441.24	03/11/84	16.67	1442.30
01/12/84	17.70	1441.27	03/12/84	16.63	1442.34
01/13/84	17.75	1441.22	03/13/84	16.52	1442.45
01/14/84	17.80	1441.17	03/14/84	16.52	1442.45
01/15/84	17.74	1441.23	03/15/84	16.63	1442.34
01/16/84	17.47	1441.50	03/16/84	16.68	1442.29
01/17/84	17.52	1441.45	03/17/84	16.60	1442.37
01/18/84	17.52	1441.45	03/18/84	16.55	1442.42
01/19/84	17.55	1441.42	03/19/84	16.46	1442.51
01/20/84	17.59	1441.38	03/20/84	16.33	1442.64
01/21/84	17.45	1441.52	03/21/84	16.35	1442.62
01/22/84	17.29	1441.68	03/22/84	16.46	1442.51
01/23/84	17.20	1441.77	03/23/84	16.46	1442.51
01/24/84	17.07	1441.90	03/24/84	16.38	1442.59
01/25/84	17.00	1441.97	03/25/84	16.38	1442.59
01/26/84	17.15	1441.82	03/26/84	16.29	1442.68
01/27/84	17.18	1441.79	03/27/84	16.33	1442.64
01/28/84	17.02	1441.95	03/28/84	16.41	1442.56
01/29/84	17.34	1441.63	03/29/84	16.43	1442.54
01/30/84	17.46	1441.51	03/30/84	16.46	1442.51
01/31/84	17.42	1441.55	03/31/84	16.47	1442.50
02/01/84	17.42	1441.55	04/01/84	16.34	1442.63
02/02/84	17.47	1441.50	04/02/84	16.26	1442.71
02/03/84	17.48	1441.49	04/03/84	16.05	1442.92
02/04/84	17.48	1441.49	04/04/84	15.52	1443.45
02/05/84	17.48	1441.49	04/05/84	15.37	1443.60
02/06/84	17.48	1441.49	04/06/84	15.23	1443.74
02/07/84	17.49	1441.48	04/07/84	15.03	1443.94
02/08/84	17.49	1441.48	04/08/84	14.73	1444.24
02/09/84	17.52	1441.45	04/09/84	14.83	1444.14
02/10/84	17.52	1441.45	04/10/84	14.91	1444.06
02/11/84	17.56	1441.41	04/11/84	14.86	1444.11
02/12/84	17.56	1441.41	04/12/84	14.70	1444.27
02/13/84	17.54	1441.43	04/13/84	14.57	1444.40
02/14/84	17.60	1441.37	04/14/84	14.56	1444.41
02/15/84	17.63	1441.34	04/15/84	14.56	1444.41
02/16/84	17.63	1441.34	04/16/84	14.41	1444.56

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl,ft)=1458.97  
SI (ft.)=0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
04/17/84	14.37	1444.60	06/16/84	15.35	1443.62
04/18/84	14.26	1444.71	06/17/84	15.30	1443.67
04/19/84	14.22	1444.75	06/18/84	15.29	1443.68
04/20/84	13.68	1445.29	08/09/84	15.72	1443.25
04/21/84	14.25	1444.72	08/10/84	16.64	1442.33
04/22/84	14.27	1444.70	08/11/84	16.03	1442.94
04/23/84	14.14	1444.83	08/12/84	14.80	1444.17
04/24/84	14.12	1444.85	08/13/84	14.62	1444.35
04/25/84	14.25	1444.72	08/14/84	15.16	1443.81
04/26/84	14.29	1444.68	08/15/84	15.30	1443.67
04/27/84	14.17	1444.80	08/16/84	15.12	1443.85
04/28/84	14.39	1444.58	08/17/84	14.66	1444.31
04/29/84	14.54	1444.43	08/18/84	14.79	1444.18
04/30/84	14.54	1444.43	08/19/84	14.94	1444.03
05/01/84	14.51	1444.46	08/20/84	14.88	1444.09
05/02/84	14.48	1444.49	08/21/84	15.56	1443.41
05/03/84	14.40	1444.57	08/22/84	15.75	1443.22
05/04/84	13.70	1445.27	08/23/84	15.46	1443.51
05/05/84	13.20	1445.77	08/24/84	14.99	1443.98
05/06/84	14.14	1444.83	08/25/84	14.99	1443.98
05/07/84	14.36	1444.61	08/26/84	15.08	1443.89
05/08/84	14.50	1444.47	08/27/84	15.16	1443.81
05/09/84	14.54	1444.43	08/28/84	15.83	1443.14
05/10/84	14.35	1444.62	08/29/84	16.03	1442.94
05/11/84	14.35	1444.62	08/30/84	16.64	1442.33
05/12/84	14.47	1444.50	08/31/84	17.60	1441.37
05/13/84	14.65	1444.32	09/01/84	17.87	1441.10
05/14/84	14.65	1444.32	09/02/84	18.42	1440.55
05/15/84	14.39	1444.58	09/03/84	18.80	1440.17
05/16/84	14.28	1444.69	09/04/84	19.10	1439.87
05/17/84	13.86	1445.11	09/05/84	20.02	1438.95
05/18/84	14.32	1444.65	09/06/84	20.15	1438.82
05/19/84	14.42	1444.55	09/07/84	20.04	1438.93
05/20/84	14.37	1444.60	09/08/84	19.85	1439.12
05/21/84	14.32	1444.65	09/09/84	19.65	1439.32
05/22/84	14.50	1444.47	09/10/84	19.96	1439.01
05/23/84	14.63	1444.34	09/11/84	19.79	1439.18
05/24/84	14.72	1444.25	09/12/84	19.10	1439.87
05/25/84	14.99	1443.98	09/13/84	19.76	1439.21
05/26/84	15.01	1443.96	09/14/84	20.01	1438.96
05/27/84	15.33	1443.64	09/15/84	20.06	1438.91
05/28/84	15.50	1443.47	09/16/84	19.92	1439.05
05/29/84	15.55	1443.42	09/17/84	20.06	1438.91
05/30/84	15.50	1443.47	09/18/84	20.15	1438.82
05/31/84	15.38	1443.59	09/19/84	20.23	1438.74
06/01/84	15.56	1443.41	09/20/84	20.37	1438.60
06/02/84	15.72	1443.25	09/21/84	20.27	1438.70
06/03/84	15.79	1443.18	09/22/84	20.13	1438.84
06/04/84	15.69	1443.28	09/23/84	20.42	1438.55
06/05/84	15.37	1443.60	09/24/84	19.96	1439.01
06/06/84	15.24	1443.73	09/25/84	19.78	1439.19
06/07/84	15.15	1443.82	09/26/84	19.93	1439.04
06/08/84	15.15	1443.82	09/27/84	20.01	1438.96
06/09/84	15.38	1443.59	09/28/84	19.96	1439.01
06/10/84	15.59	1443.38	09/29/84	19.72	1439.25
06/11/84	15.59	1443.38	09/30/84	19.61	1439.36
06/12/84	15.34	1443.63	10/01/84	19.61	1439.36
06/13/84	15.31	1443.66	10/02/84	19.57	1439.40
06/14/84	15.46	1443.51	10/03/84	19.59	1439.38
06/15/84	15.46	1443.51	10/04/84	19.59	1439.38

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl,ft)=1458.97  
SI (ft.)=0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/05/84	19.50	1439.47	12/04/84	18.31	1440.66
10/06/84	19.50	1439.47	12/05/84	18.34	1440.63
10/07/84	19.56	1439.41	12/06/84	18.35	1440.62
10/08/84	19.65	1439.32	12/07/84	18.21	1440.76
10/09/84	19.70	1439.27	12/08/84	18.14	1440.83
10/10/84	19.70	1439.27	12/09/84	18.16	1440.81
10/11/84	19.66	1439.31	12/10/84	18.17	1440.80
10/12/84	19.50	1439.47	12/11/84	18.17	1440.80
10/13/84	19.47	1439.50	12/12/84	18.16	1440.81
10/14/84	19.53	1439.44	12/13/84	18.16	1440.81
10/15/84	19.58	1439.39	12/28/84	17.85	1441.12
10/16/84	18.71	1440.26	12/29/84	18.10	1440.87
10/17/84	19.37	1439.60	12/30/84	18.27	1440.70
10/18/84	19.68	1439.29	12/31/84	18.27	1440.70
10/19/84	19.69	1439.28			
10/20/84	19.63	1439.34	01/01/85	18.27	1440.70
10/21/84	19.69	1439.28	01/02/85	18.20	1440.77
10/22/84	19.79	1439.18	01/03/85	17.95	1441.02
10/23/84	19.83	1439.14	01/04/85	17.90	1441.07
10/24/84	19.80	1439.17	01/05/85	17.90	1441.07
10/25/84	19.49	1439.48	01/06/85	17.36	1441.61
10/26/84	19.33	1439.64	01/07/85	17.76	1441.21
10/27/84	19.34	1439.63	01/08/85	17.95	1441.02
10/28/84	19.55	1439.42	01/09/85	17.95	1441.02
10/29/84	19.55	1439.42	01/10/85	18.05	1440.92
10/30/84	19.58	1439.39	01/11/85	18.15	1440.82
10/31/84	19.55	1439.42	01/12/85	18.12	1440.85
11/01/84	19.37	1439.60	01/13/85	17.16	1441.81
11/02/84	19.40	1439.57	01/14/85	16.69	1442.28
11/03/84	19.25	1439.72	01/15/85	16.69	1442.28
11/04/84	19.06	1439.91	02/17/85	18.26	1440.71
11/05/84	19.19	1439.78	02/18/85	18.45	1440.52
11/06/84	19.20	1439.77	02/19/85	18.44	1440.53
11/07/84	19.16	1439.81	02/20/85	18.23	1440.74
11/08/84	19.05	1439.92	03/02/85	18.58	1440.39
11/09/84	19.04	1439.93	03/03/85	18.59	1440.38
11/10/84	19.04	1439.93	03/04/85	18.55	1440.42
11/11/84	18.93	1440.04	03/05/85	18.58	1440.39
11/12/84	18.71	1440.26	03/06/85	18.58	1440.39
11/13/84	18.60	1440.37	03/07/85	18.44	1440.53
11/14/84	18.41	1440.56	03/08/85	18.52	1440.45
11/15/84	18.41	1440.56	03/09/85	18.53	1440.44
11/16/84	18.44	1440.53	03/10/85	18.24	1440.73
11/17/84	18.43	1440.54	03/11/85	18.18	1440.79
11/18/84	18.43	1440.54	03/12/85	18.34	1440.63
11/19/84	18.49	1440.48	03/13/85	18.45	1440.52
11/20/84	18.49	1440.48	03/14/85	18.56	1440.41
11/21/84	18.39	1440.58	03/15/85	18.57	1440.40
11/22/84	18.28	1440.69	03/16/85	18.56	1440.41
11/23/84	18.28	1440.69	03/17/85	18.57	1440.40
11/24/84	18.13	1440.84	03/18/85	18.54	1440.43
11/25/84	18.00	1440.97	03/19/85	18.51	1440.46
11/26/84	17.96	1441.01	03/20/85	18.54	1440.43
11/27/84	18.10	1440.87	03/21/85	18.51	1440.46
11/28/84	18.09	1440.88	03/22/85	18.43	1440.54
11/29/84	18.11	1440.86	03/23/85	18.30	1440.67
11/30/84	18.17	1440.80	03/24/85	18.39	1440.58
12/01/84	18.23	1440.74	03/25/85	18.39	1440.58
12/02/84	18.27	1440.70	03/26/85	18.15	1440.82
12/03/84	18.29	1440.68	03/27/85	17.97	1441.00

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

**LS Elev (msl, ft)=1458.97  
SI (ft.)=0-122**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
03/28/85	17.90	1441.07	05/27/85	19.48	1439.49
03/29/85	18.14	1440.83	05/28/85	19.49	1439.48
03/30/85	18.16	1440.81	05/29/85	19.41	1439.56
03/31/85	17.85	1441.12	05/30/85	19.20	1439.77
04/01/85	17.43	1441.54	05/31/85	19.07	1439.90
04/02/85	17.28	1441.69	06/01/85	19.31	1439.66
04/03/85	17.33	1441.64	06/02/85	19.51	1439.46
04/04/85	17.51	1441.46	06/03/85	19.54	1439.43
04/05/85	17.60	1441.37	06/04/85	19.44	1439.53
04/06/85	17.92	1441.05	06/05/85	19.35	1439.62
04/07/85	18.37	1440.60	06/06/85	19.19	1439.78
04/08/85	18.49	1440.48	06/07/85	18.88	1440.09
04/09/85	18.50	1440.47	06/08/85	18.87	1440.10
04/10/85	18.47	1440.50	06/09/85	19.08	1439.89
04/11/85	18.48	1440.49	06/10/85	19.25	1439.72
04/12/85	18.52	1440.45	06/11/85	19.20	1439.77
04/13/85	18.53	1440.44	06/12/85	18.43	1440.54
04/14/85	18.51	1440.46	06/13/85	17.89	1441.08
04/15/85	18.35	1440.62	06/14/85	17.89	1441.08
04/16/85	18.37	1440.60	06/15/85	18.07	1440.90
04/17/85	18.36	1440.61	06/16/85	18.45	1440.52
04/18/85	18.26	1440.71	06/17/85	18.64	1440.33
04/19/85	18.20	1440.77	06/18/85	18.63	1440.34
04/20/85	18.11	1440.86	06/19/85	18.47	1440.50
04/21/85	18.17	1440.80	06/20/85	18.40	1440.57
04/22/85	18.33	1440.64	06/21/85	18.70	1440.27
04/23/85	18.39	1440.58	06/22/85	18.77	1440.20
04/24/85	18.41	1440.56	06/23/85	18.71	1440.26
04/25/85	18.45	1440.52	06/24/85	18.59	1440.38
04/26/85	18.51	1440.46	06/25/85	18.84	1440.13
04/27/85	18.51	1440.46	06/26/85	18.84	1440.13
04/28/85	18.41	1440.56	06/27/85	19.02	1439.95
04/29/85	18.43	1440.54	06/28/85	19.09	1439.88
04/30/85	18.51	1440.46	06/29/85	19.09	1439.88
05/01/85	18.53	1440.44	06/30/85	19.11	1439.86
05/02/85	18.54	1440.43	07/01/85	19.11	1439.86
05/03/85	18.54	1440.43	07/02/85	18.98	1439.99
05/04/85	18.49	1440.48	07/03/85	19.31	1439.66
05/05/85	18.62	1440.35	07/04/85	19.45	1439.52
05/06/85	18.74	1440.23	07/05/85	19.46	1439.51
05/07/85	18.88	1440.09	07/31/85	23.45	1435.52
05/08/85	18.89	1440.08	08/01/85	23.59	1435.38
05/09/85	18.88	1440.09	08/02/85	23.24	1435.73
05/10/85	18.90	1440.07	08/03/85	21.67	1437.30
05/11/85	18.85	1440.12	08/04/85	20.80	1438.17
05/12/85	18.85	1440.12	08/05/85	20.68	1438.29
05/13/85	18.96	1440.01	08/06/85	21.18	1437.79
05/14/85	19.02	1439.95	08/07/85	21.54	1437.43
05/15/85	19.07	1439.90	08/08/85	21.53	1437.44
05/16/85	19.16	1439.81	08/09/85	21.09	1437.88
05/17/85	19.19	1439.78	08/10/85	21.89	1437.08
05/18/85	19.16	1439.81	08/11/85	22.15	1436.82
05/19/85	19.10	1439.87	08/12/85	22.10	1436.87
05/20/85	19.23	1439.74	08/13/85	21.22	1437.75
05/21/85	19.31	1439.66	08/14/85	21.75	1437.22
05/22/85	19.34	1439.63	08/15/85	21.94	1437.03
05/23/85	19.44	1439.53	08/16/85	22.06	1436.91
05/24/85	19.48	1439.49	08/17/85	19.80	1439.17
05/25/85	19.47	1439.50	08/18/85	20.75	1438.22
05/26/85	19.40	1439.57	08/19/85	22.62	1436.35

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft)=1458.97  
SI (ft.)=0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/20/85	23.43	1435.54	10/19/85	23.74	1435.23
08/21/85	23.68	1435.29	10/20/85	23.58	1435.39
08/22/85	23.74	1435.23	10/21/85	23.56	1435.41
08/23/85	23.81	1435.16	10/22/85	23.41	1435.56
08/24/85	24.17	1434.80	10/23/85	23.25	1435.72
08/25/85	24.11	1434.86	10/24/85	22.55	1436.42
08/26/85	23.76	1435.21	10/25/85	22.20	1436.77
08/27/85	24.20	1434.77	10/26/85	22.53	1436.44
08/28/85	24.32	1434.65	10/27/85	22.78	1436.19
08/29/85	24.32	1434.65	10/28/85	22.82	1436.15
08/30/85	24.29	1434.68	10/29/85	22.19	1436.78
08/31/85	24.29	1434.68	10/30/85	21.89	1437.08
09/01/85	24.27	1434.70	10/31/85	21.96	1437.01
09/02/85	24.28	1434.69	11/01/85	22.22	1436.75
09/03/85	24.22	1434.75	11/02/85	22.60	1436.37
09/04/85	23.85	1435.12	11/03/85	22.74	1436.23
09/05/85	23.81	1435.16	11/04/85	22.87	1436.10
09/06/85	23.50	1435.47	11/05/85	22.93	1436.04
09/07/85	23.54	1435.43	11/06/85	22.91	1436.06
09/08/85	23.69	1435.28	11/07/85	21.29	1437.68
09/09/85	23.90	1435.07	11/08/85	18.55	1440.42
09/10/85	23.97	1435.00	11/09/85	17.52	1441.45
09/11/85	23.71	1435.26	11/10/85	17.84	1441.13
09/12/85	23.50	1435.47	11/11/85	19.41	1439.56
09/13/85	23.61	1435.36	11/12/85	20.41	1438.56
09/14/85	23.64	1435.33	11/13/85	19.59	1439.38
09/15/85	23.63	1435.34	11/14/85	17.56	1441.41
09/16/85	23.58	1435.39	11/15/85	16.48	1442.49
09/17/85	23.40	1435.57	11/16/85	17.87	1441.10
09/18/85	23.41	1435.56	11/17/85	19.91	1439.06
09/19/85	23.42	1435.55	11/18/85	21.25	1437.72
09/20/85	23.39	1435.58	11/19/85	22.11	1436.86
09/21/85	23.34	1435.63	11/20/85	22.81	1436.16
09/22/85	22.60	1436.37	11/21/85	23.25	1435.72
09/23/85	22.20	1436.77	11/22/85	23.42	1435.55
09/24/85	22.22	1436.75	11/23/85	23.42	1435.55
09/25/85	22.72	1436.25	11/24/85	23.39	1435.58
09/26/85	23.07	1435.90	11/25/85	23.23	1435.74
09/27/85	23.29	1435.68	11/26/85	23.04	1435.93
09/28/85	23.30	1435.67	11/27/85	23.08	1435.89
09/29/85	23.27	1435.70	11/28/85	23.16	1435.81
09/30/85	23.16	1435.81	11/29/85	23.19	1435.78
10/01/85	23.25	1435.72	11/30/85	23.29	1435.68
10/02/85	23.31	1435.66	12/01/85	23.36	1435.61
10/03/85	23.34	1435.63	12/02/85	23.41	1435.56
10/04/85	23.28	1435.69	12/03/85	23.41	1435.56
10/05/85	23.27	1435.70	12/04/85	23.45	1435.52
10/06/85	23.22	1435.75	12/05/85	23.53	1435.44
10/07/85	23.38	1435.59	12/06/85	23.54	1435.43
10/08/85	23.50	1435.47	12/07/85	23.52	1435.45
10/09/85	23.66	1435.31	12/08/85	23.44	1435.53
10/10/85	23.71	1435.26	12/09/85	23.35	1435.62
10/11/85	23.73	1435.24	12/10/85	22.95	1436.02
10/12/85	23.67	1435.30	12/11/85	22.49	1436.48
10/13/85	23.60	1435.37	12/12/85	22.38	1436.59
10/14/85	23.62	1435.35	12/13/85	22.29	1436.68
10/15/85	23.54	1435.43	12/14/85	22.25	1436.72
10/16/85	23.55	1435.42	12/15/85	22.28	1436.69
10/17/85	23.46	1435.51	12/16/85	22.29	1436.68
10/18/85	23.64	1435.33	12/17/85	22.29	1436.68

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1458.97  
SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
12/18/85	21.31	1437.66	04/26/86	12.11	1446.86
12/19/85	20.60	1438.37	05/23/86	9.24	1449.73
12/20/85	20.26	1438.71	05/24/86	11.25	1447.72
12/21/85	20.05	1438.92	05/25/86	11.35	1447.62
12/22/85	19.63	1439.34	05/26/86	8.87	1450.10
12/23/85	19.75	1439.22	05/27/86	11.08	1447.89
12/24/85	20.00	1438.97	05/28/86	11.91	1447.06
12/25/85	20.10	1438.87	07/10/86	16.03	1442.94
12/26/85	20.06	1438.91	07/11/86	16.70	1442.27
12/27/85	20.18	1438.79	07/12/86	16.93	1442.04
12/28/85	20.23	1438.74	07/13/86	16.78	1442.19
12/29/85	20.28	1438.69	07/14/86	16.47	1442.50
12/30/85	20.28	1438.69	07/15/86	16.63	1442.34
12/31/85	20.34	1438.63	07/16/86	16.97	1442.00
			07/17/86	17.26	1441.71
01/01/86	20.39	1438.58	07/18/86	17.22	1441.75
01/02/86	20.43	1438.54	07/19/86	16.51	1442.46
01/03/86	20.51	1438.46	07/20/86	16.27	1442.70
01/04/86	20.58	1438.39	07/21/86	16.25	1442.72
01/05/86	20.58	1438.39	07/22/86	16.18	1442.79
01/06/86	20.67	1438.30	07/23/86	16.14	1442.83
01/07/86	20.70	1438.27	07/24/86	16.09	1442.88
01/08/86	20.49	1438.48	07/25/86	16.11	1442.86
01/09/86	20.37	1438.60	08/14/86	8.05	1450.92
01/10/86	20.69	1438.28	08/15/86	8.10	1450.87
02/28/86	20.38	1438.59	08/16/86	9.84	1449.13
03/01/86	20.35	1438.62	08/17/86	11.88	1447.09
03/13/86	16.82	1442.15	08/18/86	12.39	1446.58
03/14/86	15.91	1443.06	08/19/86	12.35	1446.62
03/15/86	16.57	1442.40	08/20/86	12.70	1446.27
03/16/86	17.57	1441.40	08/21/86	12.97	1446.00
03/17/86	18.24	1440.73	09/03/86	10.28	1448.69
03/18/86	18.52	1440.45	09/04/86	10.34	1448.63
03/19/86	18.82	1440.15	09/05/86	10.53	1448.44
03/20/86	17.93	1441.04	09/06/86	10.58	1448.39
03/21/86	15.36	1443.61	09/07/86	10.58	1448.39
03/22/86	14.11	1444.86	09/08/86	10.52	1448.45
03/23/86	13.58	1445.39	09/09/86	10.70	1448.27
03/24/86	15.22	1443.75	09/10/86	10.31	1448.66
03/25/86	15.57	1443.40	09/11/86	10.44	1448.53
04/06/86	13.69	1445.28	09/12/86	10.66	1448.31
04/07/86	15.85	1443.12	09/13/86	10.82	1448.15
04/08/86	16.95	1442.02	09/14/86	11.15	1447.82
04/09/86	17.00	1441.97	09/15/86	10.89	1448.08
04/10/86	14.10	1444.87	09/16/86	10.89	1448.08
04/11/86	16.31	1442.66	09/17/86	10.79	1448.18
04/12/86	17.79	1441.18	09/18/86	10.92	1448.05
04/13/86	18.60	1440.37	09/19/86	10.93	1448.04
04/14/86	18.75	1440.22	09/20/86	10.97	1448.00
04/15/86	18.25	1440.72	09/21/86	10.97	1448.00
04/16/86	18.43	1440.54	09/22/86	11.10	1447.87
04/17/86	17.65	1441.32	09/23/86	20.03	1438.94
04/18/86	16.23	1442.74	09/24/86	14.27	1444.70
04/19/86	16.00	1442.97	09/25/86	13.08	1445.89
04/20/86	14.74	1444.23	09/26/86	13.53	1445.44
04/21/86	13.11	1445.86	10/31/86	14.76	1444.21
04/22/86	13.39	1445.58	11/01/86	13.44	1445.53
04/23/86	13.69	1445.28	11/02/86	13.40	1445.57
04/24/86	13.70	1445.27	11/03/86	13.34	1445.63
04/25/86	13.13	1445.84	11/04/86	13.16	1445.81

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl,ft)=1458.97  
SI (ft.)=0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/05/86	13.13	1445.84	03/26/87	13.41	1445.56
11/06/86	13.24	1445.73	03/27/87	12.90	1446.07
11/07/86	12.98	1445.99	03/28/87	12.60	1446.37
11/08/86	12.77	1446.20	03/29/87	12.29	1446.68
11/09/86	13.17	1445.80	03/30/87	11.87	1447.10
11/10/86	13.08	1445.89	03/31/87	11.52	1447.45
11/11/86	13.09	1445.88	04/01/87	11.30	1447.67
11/12/86	13.04	1445.93	04/02/87	11.32	1447.65
11/13/86	13.11	1445.86	04/03/87	11.00	1447.97
11/14/86	13.15	1445.82	04/04/87	10.10	1448.87
11/15/86	13.15	1445.82	04/05/87	9.83	1449.14
12/05/86	12.94	1446.03	04/06/87	10.68	1448.29
12/06/86	12.79	1446.18	04/07/87	10.65	1448.32
12/07/86	12.82	1446.15	04/08/87	10.46	1448.51
12/08/86	12.84	1446.13	04/09/87	9.95	1449.02
12/09/86	13.02	1445.95	04/10/87	9.35	1449.62
12/10/86	13.02	1445.95	04/11/87	9.41	1449.56
12/11/86	13.00	1445.97	04/12/87	9.50	1449.47
12/12/86	13.16	1445.81	04/13/87	9.60	1449.37
12/13/86	13.15	1445.82	04/14/87	9.78	1449.19
12/14/86	13.01	1445.96	04/15/87	9.78	1449.19
12/15/86	13.17	1445.80	04/16/87	10.12	1448.85
12/16/86	13.17	1445.80	04/17/87	10.43	1448.54
12/17/86	13.17	1445.80	04/18/87	10.43	1448.54
12/18/86	13.31	1445.66	04/19/87	10.28	1448.69
12/19/86	13.31	1445.66	04/20/87	10.57	1448.40
12/20/86	13.31	1445.66	04/21/87	11.02	1447.95
12/21/86	13.31	1445.66	04/22/87	11.01	1447.96
12/22/86	13.35	1445.62	04/23/87	10.43	1448.54
12/23/86	13.37	1445.60	04/24/87	10.03	1448.94
12/24/86	13.43	1445.54	04/25/87	9.52	1449.45
			04/26/87	8.86	1450.11
01/22/87	12.98	1445.99	04/27/87	8.80	1450.17
01/23/87	12.91	1446.06	04/28/87	8.52	1450.45
01/24/87	12.87	1446.10	04/29/87	7.81	1451.16
01/25/87	13.06	1445.91	04/30/87	7.83	1451.14
01/26/87	13.06	1445.91	05/01/87	6.89	1452.08
01/27/87	13.06	1445.91	05/02/87	6.73	1452.24
01/28/87	13.06	1445.91	05/03/87	6.91	1452.06
01/29/87	12.90	1446.07	05/04/87	7.07	1451.90
01/30/87	13.04	1445.93	05/05/87	7.07	1451.90
01/31/87	13.02	1445.95	05/06/87	7.14	1451.83
02/01/87	12.92	1446.05	05/07/87	7.00	1451.97
02/02/87	12.92	1446.05	05/08/87	6.98	1451.99
02/03/87	12.92	1446.05	05/09/87	6.98	1451.99
02/04/87	12.92	1446.05	05/10/87	7.07	1451.90
02/05/87	13.26	1445.71	05/11/87	7.48	1451.49
02/06/87	13.27	1445.70	05/12/87	7.53	1451.44
02/07/87	13.23	1445.74	05/13/87	7.42	1451.55
02/08/87	13.13	1445.84	05/14/87	7.56	1451.41
02/09/87	13.13	1445.84	05/15/87	7.58	1451.39
02/10/87	13.14	1445.83	05/16/87	7.53	1451.44
02/11/87	13.16	1445.81	05/17/87	7.64	1451.33
02/12/87	13.21	1445.76	05/18/87	7.61	1451.36
03/20/87	13.86	1445.11	05/19/87	7.64	1451.33
03/21/87	13.87	1445.10	05/20/87	7.86	1451.11
03/22/87	13.81	1445.16	05/21/87	8.02	1450.95
03/23/87	13.60	1445.37	05/22/87	8.08	1450.89
03/24/87	13.47	1445.50	05/23/87	8.09	1450.88
03/25/87	13.66	1445.31	05/24/87	7.95	1451.02

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1458.97  
SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
05/25/87	7.94	1451.03	07/24/87	10.88	1448.09
05/26/87	7.85	1451.12	07/25/87	10.85	1448.12
05/27/87	7.75	1451.22	07/26/87	10.88	1448.09
05/28/87	7.59	1451.38	07/27/87	10.87	1448.10
05/29/87	7.72	1451.25	07/28/87	10.82	1448.15
05/30/87	7.76	1451.21	07/29/87	10.84	1448.13
05/31/87	7.73	1451.24	07/30/87	10.84	1448.13
06/01/87	7.69	1451.28	07/31/87	10.83	1448.14
06/02/87	7.92	1451.05	08/01/87	10.72	1448.25
06/03/87	8.45	1450.52	08/02/87	10.72	1448.25
06/04/87	8.62	1450.35	08/03/87	10.72	1448.25
06/05/87	8.71	1450.26	08/04/87	10.85	1448.12
06/06/87	8.76	1450.21	08/05/87	10.84	1448.13
06/07/87	8.88	1450.09	08/06/87	10.85	1448.12
06/08/87	9.11	1449.86	08/07/87	10.91	1448.06
06/09/87	9.25	1449.72	08/08/87	10.91	1448.06
06/10/87	9.21	1449.76	08/09/87	11.04	1447.93
06/11/87	9.25	1449.72	08/10/87	11.11	1447.86
06/12/87	9.27	1449.70	08/11/87	11.09	1447.88
06/13/87	9.40	1449.57	08/12/87	11.28	1447.69
06/14/87	9.62	1449.35	08/13/87	11.31	1447.66
06/15/87	9.71	1449.26	08/14/87	11.31	1447.66
06/16/87	9.72	1449.25	08/15/87	11.27	1447.70
06/17/87	9.89	1449.08	08/16/87	11.33	1447.64
06/18/87	10.19	1448.78	08/17/87	11.42	1447.55
06/19/87	10.35	1448.62	08/18/87	11.47	1447.50
06/20/87	10.36	1448.61	08/19/87	11.47	1447.50
06/21/87	10.47	1448.50	08/20/87	11.47	1447.50
06/22/87	10.41	1448.56	08/21/87	11.54	1447.43
06/23/87	10.58	1448.39	08/22/87	11.80	1447.17
06/24/87	10.69	1448.28	08/23/87	11.92	1447.05
06/25/87	10.74	1448.23	08/24/87	11.92	1447.05
06/26/87	10.59	1448.38	08/25/87	11.77	1447.20
06/27/87	10.63	1448.34	08/26/87	11.80	1447.17
06/28/87	10.69	1448.28	08/27/87	11.81	1447.16
06/29/87	10.72	1448.25	08/28/87	11.81	1447.16
06/30/87	10.90	1448.07	08/29/87	11.80	1447.17
07/01/87	10.95	1448.02	08/30/87	11.85	1447.12
07/02/87	10.82	1448.15	08/31/87	11.93	1447.04
07/03/87	10.83	1448.14	09/01/87	11.98	1446.99
07/04/87	10.84	1448.13	09/02/87	12.01	1446.96
07/05/87	10.88	1448.09	09/03/87	11.99	1446.98
07/06/87	10.94	1448.03	09/04/87	11.92	1447.05
07/07/87	11.10	1447.87	09/05/87	11.85	1447.12
07/08/87	11.25	1447.72	09/06/87	11.89	1447.08
07/09/87	11.27	1447.70	09/07/87	11.98	1446.99
07/10/87	11.23	1447.74	09/08/87	12.01	1446.96
07/11/87	11.30	1447.67	09/09/87	12.06	1446.91
07/12/87	11.31	1447.66	09/10/87	12.08	1446.89
07/13/87	11.32	1447.65	09/11/87	12.11	1446.86
07/14/87	11.33	1447.64	09/12/87	12.05	1446.92
07/15/87	11.27	1447.70	09/13/87	11.89	1447.08
07/16/87	11.16	1447.81	09/14/87	11.86	1447.11
07/17/87	11.39	1447.58	09/15/87	11.91	1447.06
07/18/87	11.43	1447.54	09/16/87	11.93	1447.04
07/19/87	11.40	1447.57	09/17/87	12.02	1446.95
07/20/87	11.46	1447.51	09/18/87	12.04	1446.93
07/21/87	11.52	1447.45	09/19/87	12.08	1446.89
07/22/87	11.52	1447.45	09/20/87	12.18	1446.79
07/23/87	11.15	1447.82	09/21/87	12.23	1446.74

153-064-19AAB3 R (Continued)

Spiritwood Aquifer

LS Elev (msl, ft) = 1458.97

SI (ft.) = 0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/22/87	12.23	1446.74	12/28/87	26.38	1432.59
09/23/87	12.19	1446.78	12/29/87	26.38	1432.59
10/09/87	27.32	1431.65	12/30/87	26.35	1432.62
10/10/87	27.32	1431.65	12/31/87	26.32	1432.65
10/11/87	27.17	1431.80			
10/12/87	27.02	1431.95	01/01/88	26.32	1432.65
10/13/87	26.90	1432.07	01/02/88	26.32	1432.65
10/14/87	26.93	1432.04	01/03/88	26.32	1432.65
10/15/87	26.92	1432.05	01/07/88	26.38	1432.59
10/16/87	26.81	1432.16	01/08/88	26.38	1432.59
10/17/87	26.77	1432.20	01/09/88	26.38	1432.59
10/18/87	26.68	1432.29	01/10/88	26.38	1432.59
10/19/87	26.68	1432.29	01/11/88	26.38	1432.59
10/20/87	26.68	1432.29	01/12/88	26.38	1432.59
10/21/87	26.68	1432.29	01/13/88	26.38	1432.59
10/22/87	26.56	1432.41	01/14/88	26.38	1432.59
10/23/87	26.56	1432.41	01/15/88	26.38	1432.59
10/24/87	26.58	1432.39	01/16/88	26.38	1432.59
10/25/87	26.54	1432.43	01/17/88	26.38	1432.59
10/26/87	26.40	1432.57	01/18/88	26.38	1432.59
11/18/87	26.55	1432.42	01/19/88	26.38	1432.59
11/19/87	26.60	1432.37	02/13/88	25.74	1433.23
11/20/87	26.62	1432.35	02/14/88	25.72	1433.25
11/21/87	26.59	1432.38	02/15/88	25.72	1433.25
11/22/87	26.49	1432.48	02/16/88	25.66	1433.31
11/23/87	26.60	1432.37	02/17/88	25.67	1433.30
11/24/87	26.61	1432.36	02/18/88	25.66	1433.31
11/25/87	26.66	1432.31	02/19/88	25.67	1433.30
11/26/87	26.68	1432.29	02/20/88	25.70	1433.27
11/27/87	26.68	1432.29	02/21/88	25.70	1433.27
11/28/87	26.68	1432.29	02/22/88	25.62	1433.35
11/29/87	26.65	1432.32	02/23/88	25.67	1433.30
11/30/87	26.63	1432.34	02/24/88	25.75	1433.22
12/01/87	26.61	1432.36	02/25/88	25.76	1433.21
12/02/87	26.53	1432.44	02/26/88	25.74	1433.23
12/03/87	26.53	1432.44	02/27/88	25.74	1433.23
12/04/87	26.53	1432.44	02/28/88	25.75	1433.22
12/05/87	26.53	1432.44	02/29/88	25.82	1433.15
12/06/87	26.52	1432.45	03/01/88	25.82	1433.15
12/07/87	26.52	1432.45	03/02/88	25.82	1433.15
12/08/87	26.44	1432.53	03/03/88	25.82	1433.15
12/09/87	26.42	1432.55	03/04/88	25.82	1433.15
12/10/87	26.42	1432.55	03/05/88	25.82	1433.15
12/11/87	26.28	1432.69	03/06/88	25.82	1433.15
12/12/87	26.32	1432.65	03/07/88	25.82	1433.15
12/13/87	26.44	1432.53	03/08/88	25.82	1433.15
12/14/87	26.47	1432.50	03/09/88	25.82	1433.15
12/15/87	26.47	1432.50	03/10/88	25.82	1433.15
12/16/87	26.48	1432.49	03/11/88	25.82	1433.15
12/17/87	26.48	1432.49	03/12/88	25.82	1433.15
12/18/87	26.42	1432.55	03/13/88	25.82	1433.15
12/19/87	26.40	1432.57	03/14/88	25.82	1433.15
12/20/87	26.39	1432.58	03/15/88	25.82	1433.15
12/21/87	26.39	1432.58	03/16/88	25.82	1433.15
12/22/87	26.38	1432.59	03/17/88	25.82	1433.15
12/23/87	26.38	1432.59	03/18/88	25.82	1433.15
12/24/87	26.38	1432.59	03/19/88	25.82	1433.15
12/25/87	26.38	1432.59	03/20/88	25.82	1433.15
12/26/87	26.38	1432.59	03/21/88	25.82	1433.15
12/27/87	26.38	1432.59	03/22/88	25.82	1433.15

**153-064-19AAB3 R (Continued)**  
**Spiritwood Aquifer**

LS Elev (msl, ft)=1458.97  
SI (ft.)=0-122

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
03/23/88	25.82	1433.15	06/07/88	26.44	1432.53
03/24/88	25.82	1433.15	06/08/88	26.44	1432.53
03/25/88	25.82	1433.15	06/09/88	26.44	1432.53
03/26/88	25.82	1433.15	06/10/88	26.44	1432.53
03/27/88	25.82	1433.15	06/11/88	26.44	1432.53
03/28/88	25.82	1433.15	06/12/88	26.44	1432.53
03/29/88	25.82	1433.15	06/13/88	26.44	1432.53
03/30/88	25.82	1433.15	06/14/88	26.44	1432.53
03/31/88	25.82	1433.15	06/15/88	26.44	1432.53
04/01/88	25.82	1433.15	06/16/88	26.44	1432.53
04/02/88	25.82	1433.15	06/17/88	26.44	1432.53
04/03/88	25.82	1433.15	06/18/88	26.44	1432.53
04/04/88	25.82	1433.15	06/19/88	26.44	1432.53
04/23/88	25.79	1433.18	06/20/88	26.44	1432.53
04/24/88	25.63	1433.34	06/21/88	26.44	1432.53
04/25/88	25.63	1433.34	06/22/88	26.44	1432.53
04/26/88	25.63	1433.34	06/23/88	26.44	1432.53
04/27/88	25.60	1433.37	06/24/88	26.44	1432.53
04/28/88	25.62	1433.35	06/25/88	26.44	1432.53
04/29/88	25.62	1433.35	06/26/88	26.47	1432.50
04/30/88	25.67	1433.30	06/27/88	26.48	1432.49
05/01/88	25.66	1433.31	06/28/88	26.80	1432.17
05/02/88	25.66	1433.31	06/29/88	26.90	1432.07
05/03/88	25.71	1433.26	06/30/88	26.98	1431.99
05/04/88	26.41	1432.56	07/01/88	26.98	1431.99
05/05/88	26.41	1432.56	07/02/88	26.99	1431.98
05/06/88	26.28	1432.69	07/12/88	26.77	1432.20
05/07/88	26.03	1432.94	07/13/88	28.12	1430.85
05/08/88	25.91	1433.06	07/14/88	28.12	1430.85
05/09/88	25.88	1433.09	07/15/88	28.12	1430.85
05/10/88	25.97	1433.00	07/16/88	28.12	1430.85
05/11/88	25.94	1433.03	07/17/88	28.12	1430.85
05/12/88	25.89	1433.08	07/18/88	28.12	1430.85
05/13/88	25.84	1433.13	07/19/88	28.12	1430.85
05/14/88	25.75	1433.22	07/20/88	28.12	1430.85
05/15/88	25.73	1433.24	07/21/88	28.12	1430.85
05/16/88	25.74	1433.23	07/22/88	28.12	1430.85
05/17/88	25.70	1433.27	07/23/88	28.12	1430.85
05/18/88	25.64	1433.33	07/24/88	28.12	1430.85
05/19/88	25.76	1433.21	07/25/88	28.12	1430.85
05/20/88	25.76	1433.21	07/26/88	28.12	1430.85
05/21/88	25.81	1433.16	07/27/88	28.12	1430.85
05/22/88	25.85	1433.12	07/28/88	28.12	1430.85
05/23/88	25.92	1433.05	07/29/88	28.12	1430.85
05/24/88	26.00	1432.97	07/30/88	28.12	1430.85
05/25/88	26.06	1432.91	07/31/88	28.12	1430.85
05/26/88	26.12	1432.85	08/01/88	28.12	1430.85
05/27/88	26.16	1432.81	08/02/88	28.12	1430.85
05/28/88	26.17	1432.80	08/03/88	28.12	1430.85
05/29/88	26.15	1432.82	08/04/88	28.12	1430.85
05/30/88	26.05	1432.92	08/05/88	28.12	1430.85
05/31/88	26.00	1432.97	08/06/88	28.12	1430.85
06/01/88	25.96	1433.01	08/07/88	28.12	1430.85
06/02/88	25.91	1433.06	08/08/88	28.12	1430.85
06/03/88	25.91	1433.06	08/09/88	28.12	1430.85
06/04/88	25.91	1433.06	08/10/88	28.12	1430.85
06/05/88	26.44	1432.53	08/11/88	28.12	1430.85
06/06/88	26.44	1432.53	08/12/88	28.12	1430.85

**153-064-21BAB**Till

LS Elev (msl, ft)=1438.4

SI (ft.)=15-25

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	4.17	1434.23	05/06/88	6.61	1431.79
10/14/86	5.56	1432.84	06/02/88	7.07	1431.33
10/23/86	5.96	1432.44	07/08/88	6.24	1432.16
10/29/86	6.04	1432.36	08/04/88	7.48	1430.92
10/30/86	5.77	1432.63	09/09/88	8.22	1430.18
			10/13/88	8.72	1429.68
01/08/87	6.35	1432.05	11/10/88	8.92	1429.48
04/01/87	5.07	1433.33	12/15/88	9.20	1429.20
05/11/87	4.89	1433.51			
06/16/87	4.98	1433.42	06/15/89	8.19	1430.21
07/14/87	4.52	1433.88	08/08/89	9.33	1429.07
08/11/87	4.93	1433.47	10/12/89	9.72	1428.68
09/09/87	4.85	1433.55	12/20/89	10.27	1428.13
10/15/87	5.69	1432.71			
11/10/87	6.48	1431.92	04/13/90	10.51	1427.89
12/08/87	6.58	1431.82	04/16/90	10.51	1427.89
			06/13/90	9.47	1428.93
01/19/88	7.18	1431.22	09/07/90	9.80	1428.60
03/31/88	7.41	1430.99	10/31/90	10.32	1428.08

**153-064-21CCCC1**Spiritwood Aquifer

LS Elev (msl, ft)=1442.65

SI (ft.)=218-223

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	15.46	1427.19	09/12/89	18.68	1423.97
06/16/88	15.65	1427.00	10/12/89	18.53	1424.12
06/22/88	15.83	1426.82	12/20/89	18.12	1424.53
07/06/88	16.20	1426.45			
07/19/88	16.67	1425.98	02/07/90	17.87	1424.78
08/03/88	17.49	1425.16	04/17/90	18.03	1424.62
09/07/88	18.42	1424.23	05/16/90	18.44	1424.21
10/12/88	17.20	1425.45	06/13/90	18.80	1423.85
11/09/88	16.83	1425.82	07/10/90	19.03	1423.62
12/15/88	16.66	1425.99	07/11/90	19.05	1423.60
			08/09/90	20.04	1422.61
03/17/89	16.17	1426.48	09/07/90	20.34	1422.31
04/19/89	16.17	1426.48	10/02/90	20.09	1422.56
05/12/89	16.57	1426.08	10/31/90	19.98	1422.67
06/15/89	17.11	1425.54	11/28/90	19.63	1423.02
07/12/89	18.37	1424.28			
08/08/89	19.34	1423.31	04/17/91	19.33	1423.32

**153-064-21CCC2**  
**Spiritwood Aquifer**

LS Elev (msl,ft)=1442.3  
SI (ft.)=93-98

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	15.06	1427.24	09/12/89	18.25	1424.05
06/16/88	14.20	1428.10	10/12/89	18.11	1424.19
06/22/88	15.43	1426.87	12/20/89	17.71	1424.59
07/06/88	15.78	1426.52			
07/19/88	16.20	1426.10	02/07/90	17.47	1424.83
08/03/88	17.08	1425.22	04/17/90	17.63	1424.67
09/07/88	17.13	1425.17	05/16/90	18.04	1424.26
10/12/88	16.78	1425.52	06/13/90	18.37	1423.93
11/09/88	16.42	1425.88	07/10/90	18.60	1423.70
12/15/88	16.24	1426.06	07/11/90	18.60	1423.70
			08/09/90	19.62	1422.68
03/17/89	15.77	1426.53	09/07/90	19.93	1422.37
04/19/89	15.75	1426.55	10/02/90	19.68	1422.62
05/12/89	16.18	1426.12	10/31/90	19.57	1422.73
06/15/89	16.68	1425.62	11/28/90	19.24	1423.06
07/12/89	17.97	1424.33			
08/08/89	18.93	1423.37	04/17/91	18.93	1423.37

**153-064-21CCC3**

LS Elev (msl,ft)=1442.29  
SI (ft.)=8.5-18.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	11.64	1430.65	09/12/89	13.78	1428.51
06/16/88	11.58	1430.71	10/12/89	13.92	1428.37
06/22/88	11.78	1430.51	12/20/89	14.26	1428.03
06/29/88	11.49	1430.80			
07/06/88	11.47	1430.82	02/07/90	14.34	1427.95
07/19/88	11.93	1430.36	04/17/90	14.56	1427.73
08/03/88	12.10	1430.19	05/16/90	14.41	1427.88
09/07/88	12.11	1430.18	06/13/90	14.60	1427.69
10/12/88	12.68	1429.61	07/10/90	14.44	1427.85
11/09/88	12.97	1429.32	07/11/90	14.55	1427.74
12/15/88	13.27	1429.02	08/09/90	14.38	1427.91
			09/07/90	14.53	1427.76
03/17/89	13.42	1428.87	10/02/90	14.48	1427.81
04/19/89	13.53	1428.76	10/31/90	14.61	1427.68
05/12/89	13.49	1428.80	11/28/90	14.89	1427.40
06/15/89	13.44	1428.85			
07/12/89	13.54	1428.75	04/17/91	15.10	1427.19
08/08/89	13.54	1428.75			

**153-064-28BCD2**Till

LS Elev (msl,ft)=1437.3

SI (ft.)=88-93

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/28/87	8.77	1428.53	04/19/89	10.41	1426.89
10/01/87	8.71	1428.59	06/15/89	10.87	1426.43
10/05/87	8.77	1428.53	07/12/89	11.42	1425.88
10/15/87	8.80	1428.50	08/08/89	12.16	1425.14
10/20/87	8.80	1428.50	09/12/89	12.47	1424.83
10/27/87	8.77	1428.53	10/12/89	12.49	1424.81
11/10/87	8.76	1428.54	12/20/89	12.34	1424.96
12/08/87	8.58	1428.72			
			02/07/90	12.14	1425.16
01/19/88	8.53	1428.77	04/17/90	12.09	1425.21
02/24/88	8.45	1428.85	05/16/90	12.25	1425.05
03/31/88	8.44	1428.86	06/13/90	12.42	1424.88
05/06/88	8.69	1428.61	07/10/90	12.59	1424.71
06/02/88	8.94	1428.36	07/11/90	12.59	1424.71
07/08/88	9.60	1427.70	08/09/90	13.04	1424.26
08/04/88	10.37	1426.93	09/07/90	13.58	1423.72
09/09/88	11.00	1426.30	10/02/90	13.74	1423.56
10/13/88	11.17	1426.13	10/31/90	13.81	1423.49
11/09/88	11.06	1426.24	11/28/90	13.74	1423.56
12/15/88	10.84	1426.46			
			04/17/91	13.43	1423.87
03/20/89	11.54	1425.76			

**153-064-28BCD3**Till

LS Elev (msl,ft)=1437.7

SI (ft.)=48-53

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/28/87	14.86	1422.84	03/20/89	11.94	1425.76
10/01/87	33.58	1404.12	04/19/89	11.96	1425.74
10/05/87	31.53	1406.17	06/15/89	12.44	1425.26
10/15/87	25.60	1412.10	07/12/89	12.83	1424.87
10/20/87	31.62	1406.08	08/08/89	13.26	1424.44
10/27/87	30.53	1407.17	09/12/89	13.67	1424.03
10/28/87	45.78	1391.92	10/12/89	13.94	1423.76
11/10/87	29.92	1407.78	12/20/89	14.19	1423.51
12/08/87	16.44	1421.26			
			02/07/90	14.05	1423.65
01/19/88	11.58	1426.12	04/17/90	14.08	1423.62
02/24/88	10.46	1427.24	05/16/90	14.91	1422.79
03/31/88	10.19	1427.51	06/13/90	14.70	1423.00
05/06/88	10.38	1427.32	07/10/90	14.79	1422.91
06/02/88	10.48	1427.22	07/11/90	14.79	1422.91
07/08/88	10.63	1427.07	08/09/90	15.12	1422.58
08/04/88	10.91	1426.79	09/07/90	15.44	1422.26
09/09/88	11.42	1426.28	10/02/90	15.65	1422.05
10/13/88	11.82	1425.88	10/31/90	15.83	1421.87
11/09/88	11.96	1425.74	11/28/90	15.84	1421.86
12/15/88	12.02	1425.68			
			04/17/91	15.82	1421.88

**153-064-28BCD4**

Till

LS Elev (msl, ft)=1438.3

SI (ft.)=20-25

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/28/87	11.93	1426.37	03/20/89	18.25	1420.05
10/01/87	12.40	1425.90	04/19/89	18.47	1419.83
10/05/87	12.45	1425.85	06/15/89	18.71	1419.59
10/15/87	12.85	1425.45	07/12/89	18.66	1419.64
10/20/87	13.34	1424.96	08/08/89	18.49	1419.81
10/27/87	13.37	1424.93	09/12/89	18.33	1419.97
10/28/87	14.90	1423.40	10/12/89	18.47	1419.83
11/10/87	13.94	1424.36	12/20/89	18.94	1419.36
12/08/87	14.17	1424.13			
			02/07/90	19.35	1418.95
01/19/88	15.10	1423.20	04/11/90	20.42	1417.88
02/24/88	15.90	1422.40	04/17/90	20.02	1418.28
03/31/88	16.50	1421.80	05/16/90	20.27	1418.03
05/06/88	15.50	1422.80	06/13/90	20.49	1417.81
06/02/88	14.32	1423.98	07/10/90	20.47	1417.83
07/08/88	13.79	1424.51	08/09/90	20.36	1417.94
08/04/88	14.14	1424.16	09/07/90	20.19	1418.11
09/09/88	14.86	1423.44	10/02/90	20.05	1418.25
10/13/88	16.13	1422.17	10/31/90	19.97	1418.33
11/09/88	16.69	1421.61	11/28/90	20.10	1418.20
12/15/88	17.34	1420.96			
			04/17/91	21.24	1417.06

**153-064-29BBBB1**

Spiritwood Aquifer

LS Elev (msl, ft)=1465.9

SI (ft.)=183-188

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	37.54	1428.36	04/19/89	39.11	1426.79
10/01/87	37.28	1428.62	06/15/89	40.03	1425.87
10/05/87	37.41	1428.49	07/12/89	41.33	1424.57
10/15/87	37.39	1428.51	08/08/89	42.24	1423.66
10/21/87	37.36	1428.54	09/12/89	41.58	1424.32
10/27/87	37.31	1428.59	10/12/89	41.49	1424.41
11/10/87	37.27	1428.63	12/20/89	41.07	1424.83
12/11/87	37.00	1428.90			
			04/17/90	40.99	1424.91
01/19/88	37.04	1428.86	05/16/90	41.37	1424.53
02/24/88	36.97	1428.93	06/13/90	41.71	1424.19
03/31/88	37.07	1428.83	07/10/90	41.97	1423.93
05/06/88	37.68	1428.22	07/11/90	41.97	1423.93
06/02/88	38.15	1427.75	08/09/90	43.02	1422.88
07/08/88	39.34	1426.56	09/07/90	43.25	1422.65
08/04/88	40.34	1425.56	10/02/90	42.96	1422.94
09/09/88	40.42	1425.48	10/31/90	42.93	1422.97
10/13/88	40.13	1425.77	11/28/90	42.61	1423.29
11/09/88	39.75	1426.15	16/31/90	42.93	1422.97
12/15/88	39.46	1426.44			
			04/17/91	42.29	1423.61

**153-064-29BBBA2**Spiritwood Aquifer

LS Elev (msl, ft)=1466.2

SI (ft.)=151-156

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	37.91	1428.29	04/19/89	39.36	1426.84
10/01/87	37.51	1428.69	06/15/89	40.27	1425.93
10/05/87	37.65	1428.55	07/12/89	41.59	1424.61
10/15/87	37.63	1428.57	08/08/89	42.47	1423.73
10/21/87	37.60	1428.60	09/12/89	41.81	1424.39
10/27/87	37.56	1428.64	10/12/89	41.72	1424.48
11/10/87	37.52	1428.68	12/20/89	41.30	1424.90
12/08/87	37.25	1428.95			
			04/11/90	42.22	1423.98
01/19/88	37.28	1428.92	04/17/90	41.24	1424.96
02/24/88	37.23	1428.97	05/16/90	41.60	1424.60
03/31/88	37.31	1428.89	06/13/90	41.95	1424.25
05/06/88	37.90	1428.30	07/10/90	42.22	1423.98
06/02/88	38.36	1427.84	08/09/90	43.26	1422.94
07/08/88	39.56	1426.64	09/07/90	43.49	1422.71
08/04/88	40.57	1425.63	10/02/90	43.20	1423.00
09/09/88	40.66	1425.54	10/31/90	43.14	1423.06
10/13/88	40.35	1425.85	11/28/90	42.83	1423.37
11/09/88	39.99	1426.21			
12/15/88	39.72	1426.48	04/17/91	42.56	1423.64

**153-064-29BBBA3**Lake Clay

LS Elev (msl, ft)=1466.4

SI (ft.)=88-93

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	30.46	1435.94			
10/01/87	54.97	1411.43	04/19/89	29.72	1436.68
10/05/87	48.51	1417.89	06/15/89	29.70	1436.70
10/15/87	37.41	1428.99	07/12/89	29.91	1436.49
10/20/87	41.87	1424.53	08/08/89	29.99	1436.41
10/27/87	38.39	1428.01	09/12/89	30.01	1436.39
10/28/87	77.04	1389.36	10/12/89	30.09	1436.31
11/10/87	30.90	1435.50	12/20/89	30.23	1436.17
12/08/87	28.67	1437.73			
			04/17/90	30.47	1435.93
01/19/88	28.67	1437.73	05/16/90	30.50	1435.90
02/24/88	28.71	1437.69	06/13/90	30.42	1435.98
03/31/88	28.78	1437.62	07/10/90	30.52	1435.88
05/06/88	28.87	1437.53	07/11/90	30.52	1435.88
06/02/88	28.82	1437.58	08/09/90	30.64	1435.76
07/08/88	28.89	1437.51	09/07/90	30.64	1435.76
08/04/88	29.02	1437.38	10/02/90	30.67	1435.73
09/09/88	29.16	1437.24	10/31/90	30.67	1435.73
10/13/88	29.34	1437.06	11/28/90	30.67	1435.73
11/09/88	29.34	1437.06			
12/15/88	29.42	1436.98	04/17/91	30.81	1435.59

**153-064-29BBBB4**Till

LS Elev (msl,ft)=1466.9

SI (ft.)=46-51

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	28.92	1437.98			
10/01/87	28.70	1438.20	04/19/89	30.10	1436.80
10/05/87	28.85	1438.05	06/15/89	30.20	1436.70
10/15/87	28.81	1438.09	07/12/89	30.39	1436.51
10/20/87	28.85	1438.05	08/08/89	30.29	1436.61
10/27/87	28.98	1437.92	09/12/89	30.56	1436.34
10/28/87	28.93	1437.97	10/12/89	30.51	1436.39
11/10/87	28.81	1438.09	12/20/89	30.80	1436.10
12/08/87	28.76	1438.14			
			04/17/90	31.04	1435.86
01/19/88	29.06	1437.84	05/16/90	30.74	1436.16
02/24/88	29.04	1437.86	06/13/90	31.04	1435.86
03/31/88	29.42	1437.48	07/10/90	31.15	1435.75
05/06/88	29.24	1437.66	07/11/90	31.15	1435.75
06/02/88	29.26	1437.64	08/09/90	31.07	1435.83
07/08/88	29.37	1437.53	09/07/90	31.14	1435.76
08/04/88	29.41	1437.49	10/02/90	30.69	1436.21
09/09/88	29.47	1437.43	10/31/90	30.85	1436.05
10/13/88	29.62	1437.28	11/28/90	31.24	1435.66
11/09/88	29.70	1437.20			
12/15/88	30.03	1436.87	04/17/91	31.30	1435.60

**153-064-33DDD**Sand Sediments

LS Elev (msl,ft)=1430.6

SI (ft.)=24-29

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/05/86	3.94	1426.66			
11/06/86	3.96	1426.64	03/20/89	4.29	1426.31
			04/20/89	3.47	1427.13
01/07/87	3.71	1426.89	06/15/89	4.18	1426.42
03/31/87	1.99	1428.61	07/12/89	4.68	1425.92
05/11/87	2.26	1428.34	08/08/89	5.04	1425.56
06/16/87	1.92	1428.68	09/12/89	5.17	1425.43
07/14/87	1.74	1428.86	10/12/89	5.56	1425.04
08/10/87	1.87	1428.73	12/20/89	5.90	1424.70
09/09/87	2.11	1428.49			
10/15/87	2.20	1428.40	02/06/90	5.79	1424.81
11/10/87	2.31	1428.29	04/16/90	5.36	1425.24
12/08/87	2.36	1428.24	05/16/90	5.45	1425.15
			06/13/90	5.56	1425.04
01/20/88	2.38	1428.22	07/10/90	5.61	1424.99
03/31/88	2.30	1428.30	07/11/90	5.61	1424.99
05/06/88	2.37	1428.23	08/09/90	6.10	1424.50
06/04/88	2.47	1428.13	09/07/90	6.46	1424.14
07/08/88	2.45	1428.15	10/02/90	6.53	1424.07
08/04/88	3.52	1427.08	10/31/90	6.80	1423.80
09/08/88	4.08	1426.52	11/28/90	7.06	1423.54
10/13/88	4.30	1426.30			
11/09/88	4.45	1426.15	04/17/91	6.78	1423.82
12/15/88	4.62	1425.98			

**153-064-35DCC**

Till

LS Elev (msl,ft)=1445

SI (ft.)=28-33

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	4.14	1440.86	05/06/88	5.17	1439.83
10/14/86	6.97	1438.03	06/02/88	4.96	1440.04
10/29/86	7.52	1437.48	07/08/88	4.84	1440.16
10/30/86	8.43	1436.57	08/04/88	5.63	1439.37
			09/08/88	6.70	1438.30
01/07/87	5.78	1439.22	10/13/88	7.66	1437.34
03/31/87	2.30	1442.70	11/09/88	7.83	1437.17
05/11/87	4.16	1440.84	12/15/88	8.12	1436.88
06/16/87	4.14	1440.86			
07/14/87	4.45	1440.55	06/15/89	6.42	1438.58
08/10/87	3.91	1441.09	08/08/89	7.26	1437.74
09/09/87	4.69	1440.31	10/12/89	7.79	1437.21
10/15/87	4.80	1440.20	12/20/89	8.87	1436.13
11/10/87	4.88	1440.12			
12/08/87	4.91	1440.09	04/16/90	10.38	1434.62
			06/13/90	8.22	1436.78
01/19/88	5.58	1439.42	09/07/90	6.89	1438.11
03/31/88	5.91	1439.09	10/31/90	7.86	1437.14

**153-064-36DCC**

Till

LS Elev (msl,ft)=1436.7

SI (ft.)=13-18

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/02/86	0.87	1435.83	06/02/88	2.61	1434.09
10/14/86	3.18	1433.52	07/08/88	3.12	1433.58
10/29/86	2.54	1434.16	08/04/88	5.41	1431.29
10/30/86	3.77	1432.93	09/08/88	6.42	1430.28
			10/13/88	7.05	1429.65
01/07/87	3.04	1433.66	11/09/88	7.29	1429.41
03/31/87	0.37	1436.33	12/15/88	7.45	1429.25
05/11/87	2.34	1434.36			
06/16/87	2.97	1433.73	06/15/89	4.23	1432.47
07/14/87	2.32	1434.38	08/08/89	5.96	1430.74
08/10/87	2.83	1433.87	10/12/89	6.13	1430.57
09/09/87	3.32	1433.38	12/20/89	6.65	1430.05
10/15/87	3.32	1433.38			
11/10/87	3.30	1433.40	04/16/90	7.42	1429.28
12/08/87	3.24	1433.46	05/13/90	3.50	1433.20
			06/13/90	3.50	1433.20
01/19/88	4.50	1432.20	09/07/90	5.61	1431.09
03/31/88	2.43	1434.27	10/31/90	6.47	1430.23
05/06/88	2.40	1434.30			

153-065-02CCC

Till

LS Elev (msl,ft)=1479.78

SI (ft.)=23-28

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	8.16	1471.62	05/06/88	11.51	1468.27
10/15/86	8.02	1471.76	06/03/88	11.53	1468.25
10/22/86	7.93	1471.85	07/07/88	11.72	1468.06
10/23/86	8.24	1471.54	08/03/88	12.39	1467.39
10/28/86	8.05	1471.73	09/06/88	12.50	1467.28
10/29/86	8.27	1471.51	10/12/88	13.65	1466.13
			11/09/88	13.62	1466.16
01/08/87	8.39	1471.39	12/15/88	14.36	1465.42
04/01/87	8.07	1471.71			
05/12/87	6.31	1473.47	05/11/89	15.71	1464.07
06/17/87	6.51	1473.27	06/16/89	15.81	1463.97
07/14/87	7.14	1472.64	08/09/89	16.40	1463.38
08/11/87	7.11	1472.67	10/11/89	16.75	1463.03
09/09/87	7.70	1472.08	12/19/89	18.02	1461.76
10/16/87	8.20	1471.58			
11/10/87	8.67	1471.11	04/17/90	19.77	1460.01
12/09/87	8.77	1471.01	06/14/90	20.32	1459.46
			09/06/90	20.44	1459.34
01/19/88	7.90	1471.88	10/31/90	20.46	1459.32
03/31/88	11.37	1468.41			

153-065-03BBB

Spiritwood Aquifer

LS Elev (msl,ft)=1457.8

SI (ft.)=157-163

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	34.64	1423.16	12/09/87	25.84	1431.96
10/16/73	34.80	1423.00			
11/20/73	34.92	1422.88	01/19/88	25.93	1431.87
			03/31/88	26.04	1431.76
01/08/74	34.86	1422.94	05/06/88	26.19	1431.61
02/14/74	34.84	1422.96	06/03/88	26.33	1431.47
03/28/74	34.82	1422.98	07/07/88	26.59	1431.21
05/08/74	34.46	1423.34	08/03/88	27.02	1430.78
06/14/74	32.80	1425.00	09/06/88	27.39	1430.41
06/19/74	32.58	1425.22	10/12/88	27.80	1430.00
07/24/74	31.80	1426.00	11/09/88	27.97	1429.83
08/14/74	31.60	1426.20	12/15/88	28.11	1429.69
09/23/74	31.56	1426.24			
10/31/74	32.45	1425.35	05/11/89	28.05	1429.75
11/25/74	31.61	1426.19	06/16/89	28.18	1429.62
12/30/74	31.88	1425.92	08/09/89	28.82	1428.98
			10/11/89	29.21	1428.59
07/14/87	25.43	1432.37	12/19/89	29.48	1428.32
08/11/87	25.37	1432.43			
09/10/87	25.54	1432.26	04/17/90	29.65	1428.15
10/15/87	25.67	1432.13	06/14/90	29.72	1428.08
11/10/87	25.83	1431.97	09/06/90	30.25	1427.55

**153-065-04CCD****Spiritwood Aquifer**

LS Elev (msl,ft)=1448.33

SI (ft.)=118-121

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/23/74	22.13	1426.20	05/06/88	16.87	1431.46
10/30/74	23.02	1425.31	06/03/88	16.99	1431.34
11/25/74	22.57	1425.76	07/07/88	17.23	1431.10
			08/03/88	17.68	1430.65
07/17/86	17.51	1430.82	09/06/88	18.05	1430.28
07/30/86	17.45	1430.88	10/12/88	18.47	1429.86
			11/09/88	18.67	1429.66
04/01/87	17.53	1430.80	12/15/88	18.75	1429.58
05/12/87	16.65	1431.68			
06/17/87	16.27	1432.06	05/11/89	18.73	1429.60
07/14/87	16.13	1432.20	06/16/89	18.83	1429.50
08/11/87	16.07	1432.26	08/09/89	19.53	1428.80
09/09/87	16.24	1432.09	10/11/89	19.91	1428.42
10/15/87	16.37	1431.96	12/19/89	20.16	1428.17
11/10/87	16.57	1431.76			
12/09/87	16.55	1431.78	04/17/90	20.28	1428.05
			06/14/90	20.42	1427.91
01/19/88	16.61	1431.72	09/06/90	20.99	1427.34
03/31/88	16.71	1431.62	10/31/90	21.27	1427.06

**153-065-09AAB****Till**

LS Elev (msl,ft)=1456.33

SI (ft.)=23-28

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	3.51	1452.82	05/06/88	5.21	1451.12
10/15/86	3.21	1453.12	06/03/88	4.65	1451.68
10/22/86	3.48	1452.85	07/07/88	5.57	1450.76
10/23/86	3.41	1452.92	08/03/88	6.75	1449.58
10/28/86	3.35	1452.98	09/06/88	7.71	1448.62
10/29/86	3.51	1452.82	10/12/88	8.43	1447.90
			11/09/88	8.54	1447.79
01/08/87	4.37	1451.96	12/15/88	8.84	1447.49
04/01/87	2.60	1453.73			
05/12/87	2.86	1453.47	05/11/89	7.22	1449.11
06/17/87	2.94	1453.39	06/16/89	7.01	1449.32
07/14/87	3.95	1452.38	08/09/89	7.97	1448.36
08/11/87	3.47	1452.86	10/11/89	8.39	1447.94
09/09/87	3.61	1452.72	12/19/89	9.58	1446.75
10/16/87	3.90	1452.43			
11/10/87	4.18	1452.15	04/17/90	10.19	1446.14
12/09/87	4.25	1452.08	06/14/90	9.06	1447.27
			09/06/90	8.89	1447.44
01/19/88	4.44	1451.89	10/31/90	9.61	1446.72
03/31/88	5.27	1451.06			

**153-065-09DDD2**

**Spiritwood Aquifer**

LS Elev (msl, ft)=1458.72

SI (ft.)=117-120

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	35.39	1423.33	10/16/87	26.28	1432.44
10/16/73	35.48	1423.24	11/10/87	26.43	1432.29
11/20/73	35.57	1423.15	12/09/87	26.49	1432.23
01/08/74	35.54	1423.18	01/19/88	26.59	1432.13
02/14/74	35.53	1423.19	03/31/88	26.69	1432.03
03/28/74	35.50	1423.22	05/06/88	26.86	1431.86
05/08/74	35.18	1423.54	06/03/88	27.02	1431.70
06/19/74	33.45	1425.27	07/07/88	27.25	1431.47
07/24/74	32.54	1426.18	08/03/88	27.70	1431.02
08/14/74	32.49	1426.23	09/06/88	28.08	1430.64
09/23/74	32.45	1426.27	10/12/88	28.48	1430.24
10/31/74	33.30	1425.42	11/09/88	28.63	1430.09
11/25/74	32.65	1426.07	12/15/88	28.75	1429.97
12/30/74	32.70	1426.02	05/11/89	28.79	1429.93
07/17/86	27.47	1431.25	06/16/89	28.88	1429.84
07/30/86	27.41	1431.31	08/09/89	29.54	1429.18
04/01/87	27.49	1431.23	10/11/89	29.90	1428.82
05/12/87	26.63	1432.09	12/19/89	30.17	1428.55
06/17/87	26.21	1432.51	04/17/90	30.35	1428.37
07/14/87	26.10	1432.62	06/14/90	30.48	1428.24
08/11/87	26.06	1432.66	09/06/90	31.06	1427.66
09/09/87	26.19	1432.53	10/31/90	31.32	1427.40

LS Elev (msl, ft)=1460.05

SI (ft.)=138-141

**153-065-10BBB**

**Spiritwood Aquifer**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/23/74	33.60	1426.45	08/03/88	29.12	1430.93
10/31/74	34.49	1425.56	09/06/88	29.50	1430.55
11/25/74	34.08	1425.97	10/12/88	29.91	1430.14
			11/09/88	30.08	1429.97
05/12/87	28.08	1431.97	12/15/88	30.20	1429.85
06/17/87	27.69	1432.36	05/11/89	30.18	1429.87
07/14/87	27.52	1432.53	06/16/89	30.28	1429.77
08/11/87	27.48	1432.57	08/09/89	30.92	1429.13
10/15/87	27.53	1432.52	10/11/89	31.30	1428.75
11/10/87	27.94	1432.11	12/19/89	31.59	1428.46
11/24/87	28.01	1432.04			
12/09/87	27.97	1432.08	04/17/90	31.75	1428.30
01/19/88	28.04	1432.01	06/14/90	31.86	1428.19
03/31/88	28.17	1431.88	09/06/90	32.40	1427.65
07/09/88	28.72	1431.33	10/31/90	32.74	1427.31

**153-065-11ADD**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1464.31  
 SI (ft.) = 140-143

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	42.59	1421.72	12/09/87	36.96	1427.35
10/16/73	42.61	1421.70	01/19/88	36.99	1427.32
11/20/73	42.53	1421.78	03/31/88	37.16	1427.15
03/29/74	42.26	1422.05	05/06/88	37.43	1426.88
05/08/74	42.17	1422.14	06/03/88	37.78	1426.53
06/14/74	41.41	1422.90	07/07/88	38.47	1425.84
06/19/74	41.28	1423.03	08/03/88	39.26	1425.05
07/24/74	40.82	1423.49	09/07/88	39.81	1424.50
08/14/74	40.60	1423.71	10/11/88	39.99	1424.32
09/23/74	40.13	1424.18	11/08/88	39.81	1424.50
10/31/74	39.87	1424.44	11/09/88	39.81	1424.50
11/25/74	39.72	1424.59	12/15/88	39.70	1424.61
07/30/86	35.22	1429.09	05/11/89	39.55	1424.76
04/01/87	34.56	1429.75	06/16/89	36.57	1427.74
05/12/87	34.25	1430.06	08/09/89	38.00	1426.31
06/17/87	34.09	1430.22	10/11/89	38.13	1426.18
07/14/87	34.20	1430.11	12/19/89	38.04	1426.27
08/11/87	33.98	1430.33	04/17/90	37.90	1426.41
09/09/87	34.08	1430.23	06/14/90	38.40	1425.91
10/16/87	34.08	1430.23	09/06/90	39.46	1424.85
11/10/87	37.09	1427.22	10/31/90	39.75	1424.56

**153-065-12BCC**  
**Till**

LS Elev (msl, ft) = 1462.85  
 SI (ft.) = 18-23

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	3.91	1458.94	05/06/88	5.81	1457.04
10/15/86	3.75	1459.10	06/03/88	5.09	1457.76
10/22/86	3.93	1458.92	07/07/88	4.00	1458.85
10/23/86	4.09	1458.76	08/03/88	6.66	1456.19
10/28/86	4.14	1458.71	09/06/88	7.58	1455.27
10/29/86	4.20	1458.65	10/12/88	8.45	1454.40
			11/09/88	8.78	1454.07
01/08/87	5.59	1457.26	12/15/88	9.20	1453.65
04/01/87	2.55	1460.30			
05/12/87	3.64	1459.21	05/11/89	6.02	1456.83
06/17/87	3.90	1458.95	06/16/89	6.11	1456.74
07/14/87	3.85	1459.00	08/09/89	7.96	1454.89
08/11/87	3.66	1459.19	10/11/89	8.83	1454.02
09/09/87	4.02	1458.83	12/19/89	9.82	1453.03
10/16/87	4.31	1458.54			
11/10/87	4.67	1458.18	04/17/90	8.76	1454.09
12/09/87	4.89	1457.96	06/14/90	6.52	1456.33
			09/06/90	8.13	1454.72
01/19/88	6.36	1456.49	10/31/90	9.26	1453.59
03/31/88	5.30	1457.55			

**153-065-15DDA****Spiritwood Aquifer**

LS Elev (msl, ft)=1449.3

SI (ft.)=117-120

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	26.42	1422.88	12/09/87	18.25	1431.05
10/16/73	26.44	1422.86	01/19/88	18.29	1431.01
11/20/73	26.55	1422.75	03/31/88	18.31	1430.99
05/08/74	26.04	1423.26	05/06/88	18.52	1430.78
06/19/74	24.31	1424.99	06/03/88	18.95	1430.35
07/24/74	23.73	1425.57	07/07/88	19.45	1429.85
08/14/74	23.74	1425.56	08/03/88	19.79	1429.51
09/23/74	23.78	1425.52	09/06/88	20.15	1429.15
10/31/74	25.04	1424.26	10/12/88	20.31	1428.99
11/25/74	23.97	1425.33	11/09/88	20.34	1428.96
			12/15/88	20.39	1428.91
07/17/86	18.98	1430.32			
07/30/86	18.95	1430.35	05/11/89	20.32	1428.98
			06/16/89	20.58	1428.72
04/01/87	19.07	1430.23	08/09/89	21.56	1427.74
05/12/87	18.23	1431.07	10/11/89	21.61	1427.69
06/17/87	18.13	1431.17	12/19/89	21.85	1427.45
07/14/87	18.06	1431.24			
08/11/87	18.05	1431.25	04/17/90	21.88	1427.42
09/09/87	18.18	1431.12	06/14/90	22.53	1426.77
10/16/87	18.24	1431.06	09/06/90	23.39	1425.91
11/10/87	18.33	1430.97	10/31/90	23.26	1426.04

**153-065-18CCC****Till**

LS Elev (msl, ft)=1434.9

SI (ft.)=6-16

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	8.92	1425.98	08/03/88	11.52	1423.38
10/05/87	9.02	1425.88	09/06/88	12.68	1422.22
10/14/87	9.07	1425.83	10/12/88	13.48	1421.42
10/21/87	9.12	1425.78	11/09/88	13.70	1421.20
10/27/87	9.15	1425.75	12/15/88	13.77	1421.13
10/28/87	9.13	1425.77			
11/10/87	9.18	1425.72	05/11/89	7.89	1427.01
12/09/87	9.08	1425.82	06/16/89	9.06	1425.84
			08/08/89	11.71	1423.19
01/19/88	9.60	1425.30	12/19/89	12.40	1422.50
03/31/88	7.51	1427.39			
05/06/88	6.70	1428.20	06/14/90	9.94	1424.96
06/03/88	7.86	1427.04	09/06/90	10.60	1424.30
07/07/88	10.47	1424.43	10/31/90	11.61	1423.29

**153-066-01DDD**  
**Spiritwood Aquifer**

LS Elev (msl,ft)=1444.56  
SI (ft.)=97-103

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/18/69	21.62	1422.94	09/09/87	11.61	1432.95
04/14/70	21.38	1423.18	10/15/87	11.67	1432.89
05/13/70	20.97	1423.59	11/10/87	11.67	1432.89
06/23/70	20.44	1424.12	12/09/87	11.62	1432.94
07/07/70	20.45	1424.11	01/20/88	11.68	1432.88
09/08/70	20.05	1424.51	05/06/88	12.02	1432.54
10/06/70	20.02	1424.54	06/03/88	12.15	1432.41
11/12/70	19.98	1424.58	07/07/88	12.41	1432.15
12/01/70	19.87	1424.69	08/03/88	12.75	1431.81
			09/06/88	13.07	1431.49
07/17/86	12.51	1432.05	10/12/88	13.44	1431.12
07/24/86	12.53	1432.03	11/09/88	14.57	1429.99
			12/15/88	13.68	1430.88
03/31/87	12.46	1432.10			
05/12/87	12.04	1432.52	05/11/89	13.98	1430.58
06/17/87	11.74	1432.82	06/16/89	14.03	1430.53
07/14/87	11.61	1432.95	08/08/89	14.47	1430.09
08/11/87	11.53	1433.03			

**153-066-18CDD1**  
**Pierre Shale**

LS Elev (msl,ft)=1436.4  
SI (ft.)=73-78

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	8.50	1427.90	03/20/89	12.49	1423.91
10/05/87	8.02	1428.38	04/19/89	9.96	1426.44
10/14/87	8.25	1428.15	05/11/89	11.30	1425.10
10/21/87	8.48	1427.92	06/16/89	10.95	1425.45
10/28/87	8.47	1427.93	07/12/89	11.04	1425.36
10/29/87	8.50	1427.90	08/08/89	11.71	1424.69
11/09/87	8.90	1427.50	09/13/89	12.73	1423.67
12/08/87	8.80	1427.60	10/10/89	12.87	1423.53
			12/18/89	13.31	1423.09
01/18/88	9.33	1427.07			
02/24/88	9.74	1426.66	02/07/90	13.76	1422.64
03/30/88	9.44	1426.96	04/16/90	13.83	1422.57
05/05/88	8.90	1427.50	05/15/90	13.27	1423.13
06/03/88	8.68	1427.72	06/14/90	12.68	1423.72
07/07/88	9.50	1426.90	08/10/90	12.38	1424.02
08/03/88	10.46	1425.94	09/05/90	12.90	1423.50
09/05/88	11.53	1424.87	10/03/90	13.22	1423.18
10/11/88	12.16	1424.24	10/30/90	13.67	1422.73
11/08/88	12.28	1424.12	11/28/90	13.90	1422.50
12/14/88	12.31	1424.09			
			04/17/91	14.74	1421.66

**153-066-18CDD2**Lake Clay

LS Elev (msl, ft)=1436.4

SI (ft.)=33.5-38.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	7.97	1428.43	04/19/89	10.83	1425.57
10/05/87	8.15	1428.25	05/11/89	11.04	1425.36
10/14/87	8.52	1427.88	06/16/89	10.65	1425.75
10/21/87	8.69	1427.71	07/12/89	10.97	1425.43
10/28/87	8.61	1427.79	08/08/89	11.87	1424.53
11/09/87	9.23	1427.17	09/13/89	13.12	1423.28
12/09/87	9.01	1427.39	10/10/89	13.12	1423.28
			12/18/89	13.75	1422.65
01/18/88	9.87	1426.53			
02/24/88	10.13	1426.27	02/07/90	14.13	1422.27
03/30/88	9.60	1426.80	04/16/90	14.06	1422.34
05/05/88	8.85	1427.55	05/15/90	13.16	1423.24
06/03/88	8.72	1427.68	06/14/90	12.52	1423.88
07/07/88	9.75	1426.65	08/10/90	12.10	1424.30
08/03/88	10.90	1425.50	09/05/90	12.64	1423.76
09/05/88	12.07	1424.33	10/03/90	12.94	1423.46
10/11/88	12.85	1423.55	10/30/90	13.72	1422.68
11/08/88	12.97	1423.43	11/28/90	13.96	1422.44
12/14/88	12.70	1423.70			
			04/17/91	14.94	1421.46
03/20/89	12.92	1423.48			

**153-066-18CDD3**Till

LS Elev (msl, ft)=1436.3

SI (ft.)=9-14

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	8.36	1427.94	12/14/88	12.89	1423.41
10/05/87	8.44	1427.86			
10/14/87	8.72	1427.58	03/20/89	14.18	1422.12
10/21/87	8.69	1427.61	04/19/89	12.07	1424.23
10/28/87	8.68	1427.62	05/11/89	11.21	1425.09
10/29/87	8.79	1427.51	06/16/89	10.76	1425.54
11/09/87	9.43	1426.87	07/12/89	11.20	1425.10
12/08/87	9.19	1427.11	08/08/89	12.11	1424.19
			09/13/89	13.47	1422.83
01/18/88	10.13	1426.17	10/10/89	13.39	1422.91
02/24/88	10.25	1426.05	12/18/89	14.27	1422.03
03/30/88	9.96	1426.34			
05/05/88	8.92	1427.38	06/14/90	12.82	1423.48
06/03/88	8.86	1427.44	08/10/90	12.36	1423.94
07/07/88	9.87	1426.43	09/05/90	12.96	1423.34
08/03/88	11.08	1425.22	10/03/90	13.13	1423.17
09/05/88	12.25	1424.05	10/30/90	12.93	1423.37
10/11/88	13.18	1423.12	11/28/90	13.16	1423.14
11/08/88	13.51	1422.79			

**153-066-23AAA**TillLS Elev (msl, ft)=1454.9  
SI (ft.)=24-29

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	4.69	1450.21	09/06/88	7.12	1447.78
10/05/87	4.64	1450.26	10/12/88	7.69	1447.21
10/14/87	4.68	1450.22	11/09/88	7.82	1447.08
10/21/87	4.84	1450.06	12/15/88	8.05	1446.85
10/27/87	4.92	1449.98			
10/28/87	8.68	1446.22	05/11/89	7.03	1447.87
11/10/87	4.93	1449.97	06/16/89	7.27	1447.63
12/09/87	3.86	1451.04	08/08/89	8.15	1446.75
			10/11/89	8.70	1446.20
01/19/88	4.31	1450.59	12/19/89	9.38	1445.52
03/31/88	5.12	1449.78			
05/06/88	5.16	1449.74	04/17/90	9.96	1444.94
06/03/88	5.21	1449.69	06/14/90	9.72	1445.18
07/07/88	5.90	1449.00	09/06/90	9.31	1445.59
08/03/88	6.55	1448.35	10/31/90	9.75	1445.15

**153-066-23BBB**TillLS Elev (msl, ft)=1445.3  
SI (ft.)=18-23

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	3.50	1441.80	09/06/88	6.21	1439.09
10/05/87	3.73	1441.57	10/12/88	6.57	1438.73
10/14/87	3.83	1441.47	11/09/88	6.71	1438.59
10/20/87	3.95	1441.35	12/15/88	6.87	1438.43
10/27/87	4.17	1441.13			
10/28/87	7.38	1437.92	05/11/89	3.74	1441.56
11/10/87	4.05	1441.25	06/16/89	4.65	1440.65
12/09/87	4.20	1441.10	08/08/89	5.95	1439.35
			10/11/89	6.74	1438.56
01/19/88	5.11	1440.19	12/19/89	7.23	1438.07
03/31/88	2.85	1442.45			
05/06/88	3.32	1441.98	04/17/90	7.75	1437.55
06/03/88	3.84	1441.46	06/14/90	6.54	1438.76
07/07/88	4.91	1440.39	10/31/90	6.63	1438.67
08/03/88	5.54	1439.76			

**153-067-26ACC**Lake ClayLS Elev (msl, ft)=1437.5  
SI (ft.)=10-15

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/16/86	5.08	1432.42	05/05/88	6.02	1431.48
10/15/86	4.13	1433.37	06/03/88	6.24	1431.26
10/22/86	4.32	1433.18	07/07/88	6.77	1430.73
10/28/86	4.60	1432.90	08/03/88	7.10	1430.40
10/29/86	5.22	1432.28	09/05/88	7.53	1429.97
			10/11/88	7.85	1429.65
01/07/87	4.72	1432.78	11/08/88	8.01	1429.49
03/31/87	2.92	1434.58	12/14/88	8.12	1429.38
05/12/87	4.36	1433.14			
06/16/87	5.15	1432.35	05/11/89	7.25	1430.25
07/15/87	5.12	1432.38	06/16/89	7.19	1430.31
08/11/87	5.35	1432.15	08/08/89	7.47	1430.03
09/09/87	5.38	1432.12	10/10/89	7.89	1429.61
10/16/87	5.35	1432.15	12/18/89	8.10	1429.40
11/09/87	6.25	1431.25			
12/08/87	6.35	1431.15	04/16/90	8.45	1429.05
			06/14/90	7.22	1430.28
01/18/88	6.64	1430.86	09/05/90	6.83	1430.67
03/30/88	6.59	1430.91	10/30/90	7.20	1430.30

**153-067-35AAB**Till

LS Elev (msl, ft)=1444.4

SI (ft.)=10-20

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/16/86	6.37	1438.03	05/05/88	7.85	1436.55
10/15/86	5.79	1438.61	06/03/88	8.29	1436.11
10/20/86	7.28	1437.12	07/07/88	9.33	1435.07
10/22/86	5.92	1438.48	08/03/88	10.20	1434.20
10/28/86	5.99	1438.41	09/05/88	11.05	1433.35
10/29/86	6.00	1438.40	10/11/88	11.47	1432.93
			11/08/88	11.58	1432.82
01/07/87	5.78	1438.62	12/14/88	11.62	1432.78
03/31/87	2.86	1441.54			
05/12/87	4.65	1439.75	05/11/89	10.04	1434.36
06/17/87	6.13	1438.27	06/16/89	9.99	1434.41
07/15/87	6.81	1437.59	08/08/89	10.79	1433.61
09/09/87	7.68	1436.72	10/10/89	11.53	1432.87
10/16/87	8.18	1436.22	12/18/89	11.68	1432.72
11/09/87	8.55	1435.85			
12/08/87	8.52	1435.88	04/16/90	11.77	1432.63
			06/14/90	11.45	1432.95
01/18/88	9.03	1435.37	09/05/90	10.70	1433.70
03/30/88	8.99	1435.41	10/30/90	11.20	1433.20

**153-067-35ADC**Lake Clay

LS Elev (msl, ft)=1450.2

SI (ft.)=10-15

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/86	7.93	1442.27	06/03/88	8.99	1441.21
10/15/86	7.73	1442.47	07/07/88	9.90	1440.30
10/22/86	7.80	1442.40	08/03/88	10.91	1439.29
10/23/86	7.83	1442.37	09/05/88	11.89	1438.31
			10/11/88	11.88	1438.32
01/07/87	7.65	1442.55	11/08/88	11.67	1438.53
03/31/87	5.86	1444.34	12/14/88	11.90	1438.30
05/12/87	7.40	1442.80			
06/17/87	8.09	1442.11	05/11/89	10.13	1440.07
07/15/87	8.20	1442.00	06/16/89	10.36	1439.84
08/11/87	8.63	1441.57	08/08/89	12.71	1437.49
09/09/87	8.64	1441.56	10/10/89	13.00	1437.20
10/16/87	8.70	1441.50	12/18/89	13.53	1436.67
11/09/87	8.76	1441.44			
12/08/87	8.69	1441.51	04/16/90	13.80	1436.40
			06/14/90	11.93	1438.27
01/18/88	9.21	1440.99	09/05/90	14.00	1436.20
03/30/88	8.37	1441.83	10/30/90	14.20	1436.00
05/05/88	8.53	1441.67			

**153-068-18DDD1****Spiritwood Aquifer**

LS Elev (msl,ft)=1618

SI (ft.)=42-45

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/20/68	18.57	1599.43	09/10/87	13.54	1604.46
09/16/68	18.44	1599.56	10/16/87	13.80	1604.20
09/17/68	18.42	1599.58	11/09/87	14.08	1603.92
10/07/68	18.39	1599.61	12/08/87	13.96	1604.04
11/13/68	18.24	1599.76			
12/10/68	18.42	1599.58	01/18/88	14.52	1603.48
			03/30/88	15.29	1602.71
01/13/69	18.63	1599.37	05/05/88	15.49	1602.51
04/23/69	18.94	1599.06	06/03/88	15.55	1602.45
05/14/69	18.38	1599.62	07/07/88	15.58	1602.42
06/18/69	17.93	1600.07	08/03/88	15.87	1602.13
07/15/69	17.98	1600.02	09/05/88	16.03	1601.97
08/21/69	17.91	1600.09	10/11/88	16.43	1601.57
09/16/69	17.90	1600.10	11/08/88	16.64	1601.36
11/19/69	17.85	1600.15	12/14/88	16.50	1601.50
04/15/70	18.13	1599.87	05/11/89	17.50	1600.50
			08/08/89	17.69	1600.31
07/17/86	13.95	1604.05	10/10/89	17.74	1600.26
			12/18/89	18.26	1599.74
03/31/87	13.51	1604.49			
05/12/87	13.01	1604.99	04/16/90	19.18	1598.82
06/17/87	12.97	1605.03	06/14/90	19.52	1598.48
07/15/87	13.01	1604.99	09/05/90	19.53	1598.47
08/11/87	13.18	1604.82	10/30/90	19.71	1598.29

**153-068-18DDD2****Spiritwood Aquifer**

LS Elev (msl,ft)=1618

SI (ft.)=77-80

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/20/68	18.45	1599.55	09/09/87	13.48	1604.52
09/11/68	18.38	1599.62	10/16/87	13.95	1604.05
09/17/68	18.12	1599.88	11/09/87	14.10	1603.90
10/07/68	18.29	1599.71	12/08/87	13.97	1604.03
11/13/68	18.17	1599.83			
12/10/68	18.38	1599.62	01/18/88	14.55	1603.45
			03/30/88	15.25	1602.75
01/13/69	18.37	1599.63	05/05/88	15.50	1602.50
04/23/69	18.89	1599.11	06/03/88	15.54	1602.46
05/14/69	18.33	1599.67	07/07/88	15.60	1602.40
06/18/69	18.08	1599.92	08/03/88	15.86	1602.14
07/15/69	18.05	1599.95	09/05/88	16.08	1601.92
08/21/69	17.83	1600.17	10/11/88	16.50	1601.50
09/16/69	17.83	1600.17	11/08/88	16.54	1601.46
11/19/69	17.75	1600.25	12/14/88	16.59	1601.41
04/15/70	18.20	1599.80	05/11/89	17.52	1600.48
			08/08/89	17.70	1600.30
07/17/86	13.64	1604.36	10/10/89	17.79	1600.21
			12/18/89	18.27	1599.73
03/31/87	13.60	1604.40			
05/12/87	13.10	1604.90	04/16/90	19.25	1598.75
06/17/87	12.98	1605.02	06/14/90	19.50	1598.50
07/15/87	13.07	1604.93	09/05/90	19.57	1598.43
08/11/87	13.21	1604.79	10/30/90	19.74	1598.26

154-062-06DDD

Gravel Sediments

LS Elev (msl,ft)=1484

SI (ft.)=48-51

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/24/74	7.56	1476.44	05/06/88	8.05	1475.95
10/30/74	8.06	1475.94	06/04/88	7.25	1476.75
11/26/74	8.25	1475.75	07/07/88	7.12	1476.88
			08/03/88	7.69	1476.31
07/18/86	5.21	1478.79	09/06/88	7.94	1476.06
07/22/86	5.07	1478.93	10/12/88	8.45	1475.55
			11/09/88	8.68	1475.32
04/01/87	7.09	1476.91	12/15/88	9.10	1474.90
05/12/87	6.98	1477.02			
06/17/87	5.54	1478.46	05/12/89	9.84	1474.16
07/15/87	5.94	1478.06	06/15/89	9.05	1474.95
08/11/87	5.40	1478.60	08/09/89	9.00	1475.00
09/10/87	5.32	1478.68	10/11/89	9.50	1474.50
10/16/87	5.80	1478.20	12/19/89	10.48	1473.52
11/10/87	6.23	1477.77			
12/09/87	6.45	1477.55	04/17/90	12.06	1471.94
			06/14/90	10.70	1473.30
01/19/88	7.19	1476.81	09/06/90	8.81	1475.19
03/31/88	8.42	1475.58	10/31/90	8.09	1475.91

154-062-07DDD

Sand Sediments

LS Elev (msl,ft)=1485

SI (ft.)=57-60

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	7.83	1477.17	10/16/87	3.30	1481.70
10/18/73	7.43	1477.57	11/10/87	3.50	1481.50
11/19/73	6.94	1478.06	12/09/87	3.71	1481.29
01/07/74	7.02	1477.98	01/19/88	4.46	1480.54
02/13/74	7.56	1477.44	03/31/88	5.80	1479.20
03/29/74	8.28	1476.72	05/06/88	5.68	1479.32
05/07/74	8.32	1476.68	06/04/88	4.98	1480.02
06/18/74	5.17	1479.83	07/07/88	4.84	1480.16
07/23/74	4.47	1480.53	08/03/88	5.40	1479.60
08/16/74	4.58	1480.42	09/06/88	5.89	1479.11
09/24/74	4.92	1480.08	10/12/88	6.37	1478.63
10/30/74	5.17	1479.83	11/09/88	6.59	1478.41
11/26/74	5.25	1479.75	12/15/88	6.92	1478.08
12/31/74	5.67	1479.33			
			05/12/89	7.89	1477.11
07/18/86	3.37	1481.63	06/15/89	7.30	1477.70
07/22/86	3.32	1481.68	08/09/89	7.32	1477.68
			10/11/89	7.86	1477.14
04/01/87	5.04	1479.96	12/19/89	8.56	1476.44
05/12/87	5.19	1479.81			
06/17/87	3.56	1481.44	04/17/90	9.86	1475.14
07/15/87	3.69	1481.31	06/14/90	9.20	1475.80
08/11/87	3.25	1481.75	09/06/90	7.95	1477.05
09/10/87	2.93	1482.07	10/31/90	9.40	1475.60

**154-063-07CCC****Till**

LS Elev (msl, ft)=1481.5

SI (ft.)=18-23

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	5.70	1475.80	06/03/88	6.04	1475.46
10/15/86	5.54	1475.96	07/07/88	7.47	1474.03
10/21/86	5.62	1475.88	08/03/88	9.10	1472.40
			09/06/88	10.05	1471.45
01/07/87	5.84	1475.66	10/12/88	10.81	1470.69
04/01/87	1.82	1479.68	11/09/88	11.07	1470.43
05/11/87	5.12	1476.38	12/15/88	11.44	1470.06
06/17/87	5.79	1475.71			
07/15/87	6.36	1475.14	05/11/89	5.36	1476.14
08/11/87	6.44	1475.06	06/16/89	6.20	1475.30
09/10/87	7.00	1474.50	08/09/89	9.27	1472.23
10/16/87	7.31	1474.19	10/11/89	11.35	1470.15
11/10/87	7.59	1473.91	12/19/89	11.96	1469.54
12/09/87	7.59	1473.91			
			04/17/90	10.62	1470.88
01/19/88	8.53	1472.97	06/14/90	8.00	1473.50
03/31/88	5.45	1476.05	09/06/90	6.85	1474.65
05/06/88	5.79	1475.71	10/31/90	7.94	1473.56

**154-063-27BBB****Gravel Sediments**

LS Elev (msl, ft)=1482.3

SI (ft.)=101-108

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/26/74	10.50	1471.80	06/04/88	10.12	1472.18
10/30/74	10.75	1471.55	07/07/88	10.48	1471.82
11/26/74	10.70	1471.60	08/03/88	11.22	1471.08
			09/06/88	11.73	1470.57
07/18/86	9.72	1472.58	10/12/88	12.20	1470.10
07/22/86	9.70	1472.60	11/09/88	12.28	1470.02
			12/15/88	12.42	1469.88
04/01/87	10.18	1472.12			
05/12/87	10.19	1472.11	05/11/89	12.03	1470.27
06/17/87	9.12	1473.18	06/16/89	11.80	1470.50
07/15/87	9.25	1473.05	08/09/89	12.64	1469.66
08/11/87	9.01	1473.29	10/11/89	13.01	1469.29
09/10/87	9.09	1473.21	12/19/89	13.32	1468.98
10/16/87	9.31	1472.99			
11/10/87	9.51	1472.79	04/17/90	13.97	1468.33
12/09/87	9.64	1472.66	06/14/90	13.32	1468.98
			09/06/90	13.59	1468.71
01/20/88	10.05	1472.25	10/31/90	13.98	1468.32
05/06/88	10.32	1471.98			

**154-063-30BBB**Till

LS Elev (msl,ft)=1494.9

SI (ft.)=28-33

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	9.22	1485.68	06/03/88	11.37	1483.53
10/15/86	8.86	1486.04	07/07/88	10.93	1483.97
10/21/86	9.51	1485.39	08/03/88	10.23	1484.67
10/28/86	9.89	1485.01	09/06/88	10.20	1484.70
			10/12/88	11.40	1483.50
01/07/87	9.72	1485.18	11/09/88	11.87	1483.03
04/01/87	6.60	1488.30	12/15/88	12.28	1482.62
05/11/87	7.61	1487.29			
06/17/87	7.72	1487.18	05/11/89	11.89	1483.01
07/14/87	8.99	1485.91	06/16/89	11.70	1483.20
08/11/87	9.09	1485.81	08/09/89	12.89	1482.01
09/10/87	9.23	1485.67	10/11/89	14.13	1480.77
10/16/87	9.38	1485.52	12/19/89	15.36	1479.54
11/10/87	9.57	1485.33			
12/09/87	9.63	1485.27	04/17/90	17.07	1477.83
			06/14/90	15.61	1479.29
01/19/88	10.38	1484.52	09/06/90	13.93	1480.97
03/31/88	11.86	1483.04	10/31/90	15.12	1479.78
05/06/88	11.89	1483.01			

**154-063-33DDD**Unnamed

LS Elev (msl,ft)=1462.19

SI (ft.)=15-20

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
01/19/88	9.34	1452.85			
03/31/88	7.50	1454.69	08/08/89	11.26	1450.93
05/06/88	8.53	1453.66	12/20/89	12.00	1450.19
06/02/88	9.13	1453.06			
07/07/88	9.93	1452.26	04/17/90	10.16	1452.03
08/03/88	10.26	1451.93	06/13/90	10.96	1451.23
09/09/88	10.97	1451.22	09/06/90	12.42	1449.77
10/13/88	11.07	1451.12	10/31/90	12.87	1449.32
11/10/88	10.98	1451.21			

**154-064-12CCC****Sand Sediments**

LS Elev (msl, ft)=1476.4

SI (ft.)=83-86

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	15.45	1460.95	10/16/87	12.30	1464.10
10/17/73	15.29	1461.11	11/10/87	12.04	1464.36
11/19/73	15.27	1461.13	12/09/87	13.22	1463.18
01/07/74	15.44	1460.96	01/19/88	13.57	1462.83
02/13/74	15.77	1460.63	03/31/88	13.70	1462.70
03/29/74	15.73	1460.67	05/06/88	13.62	1462.78
05/07/74	14.55	1461.85	06/03/88	13.60	1462.80
06/18/74	12.28	1464.12	07/07/88	14.01	1462.39
07/23/74	12.45	1463.95	08/03/88	14.46	1461.94
08/16/74	12.93	1463.47	09/06/88	14.73	1461.67
09/26/74	13.31	1463.09	10/12/88	15.19	1461.21
10/30/74	13.54	1462.86	11/09/88	15.39	1461.01
11/26/74	13.86	1462.54	12/15/88	15.68	1460.72
12/31/74	14.23	1462.17		05/11/89	15.04
				06/16/89	14.90
07/17/86	12.04	1464.36		08/09/89	15.38
07/22/86	11.95	1464.45		10/11/89	16.05
04/01/87	11.80	1464.60		12/19/89	16.51
05/12/87	11.49	1464.91			1459.89
06/17/87	11.81	1464.59	04/17/90	17.29	1459.11
07/15/87	12.29	1464.11	06/14/90	16.94	1459.46
08/11/87	12.37	1464.03	09/06/90	16.86	1459.54
09/10/87	12.66	1463.74	10/31/90	17.21	1459.19

**154-064-29ADD****Till**

LS Elev (msl, ft)=1456.6

SI (ft.)=22.5-27.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	2.88	1453.72	06/03/88	4.75	1451.85
10/15/86	2.82	1453.78	07/07/88	5.59	1451.01
10/20/86	2.97	1453.63	08/03/88	6.48	1450.12
			09/06/88	7.17	1449.43
01/07/87	4.19	1452.41	10/12/88	8.23	1448.37
04/01/87	1.79	1454.81	11/09/88	8.58	1448.02
05/12/87	1.59	1455.01	12/15/88	9.04	1447.56
06/17/87	2.06	1454.54			
07/14/87	2.51	1454.09	05/11/89	7.20	1449.40
08/11/87	2.40	1454.20	06/16/89	6.82	1449.78
09/10/87	3.21	1453.39	08/09/89	8.07	1448.53
10/16/87	3.90	1452.70	10/11/89	8.94	1447.66
11/10/87	4.59	1452.01	12/19/89	9.90	1446.70
12/09/87	4.87	1451.73		04/17/90	10.77
				06/14/90	8.73
01/19/88	5.86	1450.74		09/06/90	7.88
03/31/88	5.92	1450.68		10/31/90	8.76
05/06/88	5.05	1451.55			1447.84

<b>154-064-31CDD1</b>			LS Elev (msl,ft)=1456.31 SI (ft.)=69-74		
<u>Spiritwood Aquifer</u>					
Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	-0.79	1457.10	11/09/88	0.98	1455.33
06/15/88	-0.89	1457.20	12/16/88	1.32	1454.99
06/22/88	-0.96	1457.27			
07/08/88	-1.17	1457.48	04/19/89	2.44	1453.87
07/19/88	-0.64	1456.95	05/12/89	2.13	1454.18
08/03/88	-0.39	1456.70			
09/07/88	0.23	1456.08	04/17/90	4.03	1452.28
10/12/88	0.74	1455.57			
<b>154-064-31CDD2</b>					
<u>Till</u>					
Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/08/88	6.93	1449.17	11/09/88	10.36	1445.74
06/15/88	7.12	1448.98	12/16/88	10.47	1445.63
06/22/88	7.48	1448.62			
06/29/88	7.53	1448.57	03/20/89	10.25	1445.85
07/08/88	7.50	1448.60	04/19/89	6.24	1449.86
07/19/88	8.05	1448.05	05/12/89	7.37	1448.73
08/03/88	8.68	1447.42			
09/07/88	9.64	1446.46	04/17/90	10.51	1445.59
10/12/88	10.20	1445.90			
<b>154-064-33BBA1</b>					
<u>Sand Sediments</u>					
Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/19/88	-1.72	1438.59	11/09/88	-0.20	1437.07
08/03/88	-1.14	1438.01			
09/07/88	-0.54	1437.41	04/19/89	0.29	1436.58
10/11/88	-0.20	1437.07	05/12/89	-1.08	1437.95
<b>154-064-33BBA2</b>					
<u>Sand Sediments</u>					
Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/15/88	2.99	1433.92	10/12/88	4.59	1432.32
06/22/88	3.07	1433.84	11/09/88	4.13	1432.78
06/29/88	3.65	1433.26	12/16/88	4.41	1432.50
07/06/88	2.03	1434.88			
07/19/88	3.82	1433.09	03/17/89	5.06	1431.85
08/03/88	4.60	1432.31	04/19/89	0.76	1436.15
09/07/88	5.00	1431.91	05/12/89	2.05	1434.86
<b>154-064-34CCB1</b>					
<u>Till</u>					
Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/15/88	1.18	1426.74	11/09/88	3.73	1424.19
06/22/88	1.34	1426.58	12/16/88	4.16	1423.76
06/29/88	1.26	1426.66			
07/06/88	1.38	1426.54	03/17/89	5.50	1422.42
07/19/88	1.58	1426.34	05/12/89	1.33	1426.59
08/03/88	1.80	1426.12			
09/07/88	2.52	1425.40	04/17/90	5.51	1422.41
10/12/88	3.56	1424.36			

**154-064-34CCB2**

Till

LS Elev (msl,ft)=1427.77

SI (ft.)=8-13

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/15/88	1.74	1426.03	11/09/88	3.72	1424.05
06/22/88	2.23	1425.54	12/16/88	4.17	1423.60
06/29/88	2.86	1424.91			
07/06/88	2.98	1424.79	03/17/89	6.29	1421.48
07/19/88	3.26	1424.51	05/12/89	2.34	1425.43
08/03/88	3.23	1424.54			
09/07/88	4.11	1423.66	04/17/90	4.79	1422.98
10/12/88	4.10	1423.67			

**154-064-34CCB3**

Pierre Shale

LS Elev (msl,ft)=1427.86

SI (ft.)=93-98

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/06/88	-4.98	1432.84	10/11/88	-3.11	1430.97
07/19/88	-4.43	1432.29			
08/03/88	-3.94	1431.80	04/19/89	-1.60	1429.46
09/07/88	-3.27	1431.13			

**154-064-34CCB4**

Gravel Sediments

LS Elev (msl,ft)=1427.93

SI (ft.)=74-79

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/15/88	-4.76	1432.69	09/07/88	-3.23	1431.16
06/22/88	-4.69	1432.62	10/12/88	-3.09	1431.02
06/29/88	-4.88	1432.81			
07/19/88	-4.38	1432.31	04/19/89	-2.55	1430.48
08/03/88	-3.86	1431.79	05/12/89	-3.98	1431.91

**154-065-02DDD**

Till

LS Elev (msl,ft)=1467.54

SI (ft.)=18-23

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/86	5.14	1462.40	05/06/88	4.56	1462.98
10/15/86	5.07	1462.47	06/03/88	4.71	1462.83
10/21/86	5.15	1462.39	07/07/88	6.75	1460.79
10/22/86	7.83	1459.71	08/03/88	9.20	1458.34
10/28/86	5.46	1462.08	09/06/88	10.70	1456.84
10/29/86	5.61	1461.93	10/12/88	12.13	1455.41
			11/08/88	12.43	1455.11
01/07/87	6.05	1461.49	12/15/88	13.04	1454.50
04/01/87	1.15	1466.39			
05/12/87	0.55	1466.99	05/11/89	7.44	1460.10
06/17/87	2.69	1464.85	06/16/89	7.18	1460.36
07/15/87	3.72	1463.82	08/08/89	10.09	1457.45
08/11/87	4.24	1463.30	10/11/89	12.09	1455.45
09/10/87	5.19	1462.35	12/19/89	13.78	1453.76
10/16/87	5.80	1461.74			
11/10/87	6.36	1461.18	04/17/90	15.34	1452.20
12/09/87	6.36	1461.18	06/14/90	15.46	1452.08
			09/06/90	13.15	1454.39
01/19/88	7.04	1460.50	10/31/90	13.55	1453.99
03/31/88	6.04	1461.50			

**154-065-07AAA1**Till

LS Elev (msl,ft)=1459.31

SI (ft.)=26-31

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/09/86	12.10	1447.21	06/03/88	13.64	1445.67
07/17/86	12.49	1446.82	07/07/88	13.78	1445.53
10/15/86	11.75	1447.56	08/03/88	14.34	1444.97
10/21/86	12.04	1447.27	09/05/88	14.80	1444.51
			10/12/88	15.50	1443.81
01/08/87	12.47	1446.84	11/08/88	15.59	1443.72
03/31/87	12.50	1446.81	12/15/88	16.06	1443.25
05/12/87	10.81	1448.50			
06/17/87	11.09	1448.22	05/11/89	16.38	1442.93
07/15/87	11.51	1447.80	06/16/89	15.75	1443.56
08/11/87	11.60	1447.71	08/08/89	15.75	1443.56
09/09/87	11.82	1447.49	10/11/89	16.00	1443.31
10/16/87	12.13	1447.18	12/19/89	17.00	1442.31
11/10/87	12.41	1446.90			
12/09/87	12.34	1446.97	04/16/90	18.50	1440.81
			06/14/90	18.25	1441.06
01/19/88	13.04	1446.27	09/05/90	16.27	1443.04
03/31/88	13.99	1445.32	10/30/90	16.43	1442.88
05/06/88	13.68	1445.63			

**154-065-07AAA2**Till

LS Elev (msl,ft)=1459.31

SI (ft.)=26-31

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/09/86	12.10	1447.21	06/03/88	13.59	1445.72
07/17/86	12.49	1446.82	07/07/88	13.77	1445.54
10/15/86	11.94	1447.37	08/03/88	14.31	1445.00
			09/05/88	14.76	1444.55
01/08/87	12.46	1446.85	10/11/88	15.48	1443.83
03/31/87	12.49	1446.82	11/08/88	15.57	1443.74
05/12/87	10.80	1448.51	12/15/88	16.03	1443.28
06/17/87	11.09	1448.22			
07/15/87	11.50	1447.81	05/11/89	16.37	1442.94
08/11/87	11.59	1447.72	06/16/89	15.73	1443.58
09/09/87	11.79	1447.52	08/08/89	15.75	1443.56
10/16/87	12.60	1446.71	10/11/89	15.98	1443.33
11/10/87	12.37	1446.94	12/19/89	16.98	1442.33
12/09/87	12.34	1446.97			
			04/16/90	18.48	1440.83
01/19/88	13.02	1446.29	06/14/90	18.22	1441.09
03/31/88	13.96	1445.35	09/05/90	16.25	1443.06
05/06/88	13.69	1445.62	10/30/90	16.41	1442.90

**154-065-07CDD****Spiritwood Aquifer**

LS Elev (msl, ft)=1473.52

SI (ft.)=130-133

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	33.21	1440.31	10/16/87	28.64	1444.88
10/17/73	33.07	1440.45	11/10/87	28.82	1444.70
11/20/73	32.96	1440.56	12/09/87	28.86	1444.66
01/08/74	33.02	1440.50	01/19/88	29.29	1444.23
02/14/74	33.33	1440.19	03/31/88	30.06	1443.46
03/28/74	33.63	1439.89	05/06/88	30.11	1443.41
05/08/74	33.43	1440.09	06/03/88	30.05	1443.47
06/14/74	31.70	1441.82	07/07/88	30.43	1443.09
06/18/74	31.57	1441.95	08/03/88	30.95	1442.57
07/24/74	30.99	1442.53	09/05/88	31.47	1442.05
08/20/74	30.97	1442.55	10/12/88	31.86	1441.66
09/25/74	31.03	1442.49	11/08/88	31.91	1441.61
10/31/74	31.08	1442.44	12/15/88	32.13	1441.39
11/26/74	30.97	1442.55	05/11/89	32.45	1441.07
12/31/74	31.07	1442.45	06/16/89	32.08	1441.44
07/17/86	29.03	1444.49	08/08/89	32.34	1441.18
07/24/86	28.94	1444.58	10/11/89	32.82	1440.70
03/31/87	28.92	1444.60	12/19/89	33.19	1440.33
05/12/87	28.28	1445.24	04/16/90	34.02	1439.50
06/17/87	28.12	1445.40	06/14/90	33.64	1439.88
07/15/87	28.40	1445.12	09/05/90	33.29	1440.23
08/11/87	28.51	1445.01	10/30/90	33.56	1439.96
09/09/87	28.60	1444.92			

**154-065-11CCD1****Pierre Shale**

LS Elev (msl, ft)=1448.8

SI (ft.)=70.5-80.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	-0.14	1448.94	06/16/89	4.10	1444.70
10/05/87	-0.07	1448.87	07/12/89	4.44	1444.36
10/14/87	0.30	1448.50	08/08/89	4.34	1444.46
10/20/87	0.42	1448.38	09/13/89	4.39	1444.41
10/27/87	0.31	1448.49	10/11/89	4.55	1444.25
10/28/87	1.84	1446.96	04/16/90	5.59	1443.21
11/10/87	0.26	1448.54	05/15/90	5.67	1443.13
12/09/87	0.42	1448.38	06/14/90	5.40	1443.40
05/06/88	1.63	1447.17	07/10/90	6.30	1442.50
06/03/88	1.63	1447.17	07/11/90	6.30	1442.50
07/07/88	2.14	1446.66	08/10/90	4.96	1443.84
08/03/88	2.65	1446.15	09/05/90	4.88	1443.92
09/05/88	2.96	1445.84	10/02/90	4.83	1443.97
10/11/88	3.25	1445.55	10/30/90	5.00	1443.80
11/08/88	3.50	1445.30	11/28/90	5.27	1443.53
05/11/89	3.93	1444.87	04/17/91	5.65	1443.15

**154-065-11CCD2**Till

LS Elev (msl, ft)=1449.2

SI (ft.)=35-45

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	1.77	1447.43	04/19/89	6.81	1442.39
10/05/87	3.10	1446.10	05/11/89	6.36	1442.84
10/14/87	5.09	1444.11	06/16/89	6.40	1442.80
10/21/87	5.69	1443.51	07/12/89	6.59	1442.61
10/27/87	5.26	1443.94	08/08/89	6.70	1442.50
10/28/87	15.30	1433.90	09/13/89	6.88	1442.32
11/10/87	5.62	1443.58	10/11/89	7.15	1442.05
12/09/87	4.78	1444.42	12/19/89	8.00	1441.20
01/19/88	6.17	1443.03	02/07/90	8.08	1441.12
02/24/88	6.18	1443.02	04/16/90	8.32	1440.88
03/31/88	5.49	1443.71	05/15/90	7.91	1441.29
05/06/88	6.00	1443.20	06/14/90	6.93	1442.27
06/03/88	5.08	1444.12	07/10/90	6.13	1443.07
07/07/88	5.91	1443.29	07/11/90	6.13	1443.07
08/03/88	6.53	1442.67	08/10/90	6.10	1443.10
09/05/88	6.48	1442.72	09/05/90	6.08	1443.12
10/12/88	6.81	1442.39	10/02/90	6.05	1443.15
11/07/88	6.81	1442.39	10/30/90	6.25	1442.95
11/08/88	6.81	1442.39	11/28/90	6.61	1442.59
12/15/88	6.84	1442.36			
03/20/89	7.04	1442.16	04/17/91	7.02	1442.18

**154-065-11CCD3**Lake Clay

LS Elev (msl, ft)=1448.9

SI (ft.)=5-15

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	6.03	1442.87	04/19/89	8.35	1440.55
10/05/87	6.14	1442.76	05/11/89	7.78	1441.12
10/14/87	6.39	1442.51	06/16/89	7.78	1441.12
10/15/87	6.43	1442.47	07/12/89	8.15	1440.75
10/21/87	6.54	1442.36	08/08/89	8.68	1440.22
10/27/87	6.63	1442.27	09/13/89	9.09	1439.81
10/28/87	6.92	1441.98	10/11/89	9.36	1439.54
11/10/87	6.82	1442.08	12/19/89	10.34	1438.56
12/09/87	7.09	1441.81	02/07/90	11.30	1437.60
01/19/88	7.78	1441.12	04/16/90	11.03	1437.87
02/24/88	8.07	1440.83	05/15/90	9.87	1439.03
03/31/88	7.57	1441.33	06/14/90	8.16	1440.74
05/06/88	6.80	1442.10	07/10/90	5.34	1443.56
06/03/88	6.95	1441.95	07/11/90	5.34	1443.56
07/07/88	7.18	1441.72	08/10/90	7.45	1441.45
08/03/88	8.31	1440.59	09/05/90	7.70	1441.20
09/05/88	8.42	1440.48	10/02/90	7.99	1440.91
10/12/88	8.86	1440.04	10/30/90	8.45	1440.45
11/08/88	8.91	1439.99	11/28/90	8.85	1440.05
12/15/88	9.19	1439.71	04/17/91	9.13	1439.77
03/20/89	9.17	1439.73			

**154-065-17AAA****Spiritwood Aquifer**

LS Elev (msl, ft)=1467.78

SI (ft.)=133-136

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/25/74	24.37	1443.41	05/06/88	23.00	1444.78
10/31/74	24.38	1443.40	06/03/88	22.96	1444.82
11/26/74	24.32	1443.46	07/07/88	23.23	1444.55
			08/03/88	23.68	1444.10
07/17/86	22.00	1445.78	09/05/88	24.16	1443.62
07/24/86	21.94	1445.84	10/11/88	24.61	1443.17
			12/15/88	24.97	1442.81
03/31/87	21.79	1445.99			
05/12/87	21.17	1446.61	05/11/89	25.59	1442.19
06/17/87	20.93	1446.85	06/16/89	25.23	1442.55
07/15/87	21.06	1446.72	08/08/89	25.40	1442.38
08/11/87	21.19	1446.59	10/11/89	25.81	1441.97
09/09/87	21.30	1446.48	12/19/89	26.21	1441.57
10/16/87	21.41	1446.37			
11/10/87	21.55	1446.23	04/16/90	27.17	1440.61
12/09/87	21.58	1446.20	06/14/90	26.95	1440.83
			09/05/90	26.49	1441.29
01/19/88	22.01	1445.77	10/30/90	26.67	1441.11
03/31/88	22.85	1444.93			

**154-065-21CCC****Spiritwood Aquifer**

LS Elev (msl, ft)=1471.23

SI (ft.)=130-133

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	44.98	1426.25	10/16/87	36.94	1434.29
10/17/73	45.03	1426.20	11/10/87	37.00	1434.23
11/20/73	45.20	1426.03	12/09/87	37.02	1434.21
01/08/74	45.23	1426.00	01/19/88	37.22	1434.01
02/14/74	45.28	1425.95	03/31/88	37.43	1433.80
03/28/74	45.27	1425.96	05/06/88	37.51	1433.72
05/08/74	45.11	1426.12	06/03/88	37.65	1433.58
06/14/74	43.72	1427.51	07/07/88	37.86	1433.37
06/18/74	43.62	1427.61	08/03/88	38.30	1432.93
07/24/74	42.76	1428.47	09/06/88	38.60	1432.63
08/20/74	42.30	1428.93	10/12/88	39.07	1432.16
09/25/74	42.06	1429.17	11/08/88	39.33	1431.90
10/31/74	42.54	1428.69	12/15/88	39.47	1431.76
11/26/74	42.00	1429.23			
12/31/74	42.29	1428.94	05/11/89	39.57	1431.66
			06/16/89	39.65	1431.58
07/17/86	37.93	1433.30	08/08/89	40.09	1431.14
07/24/86	37.97	1433.26	10/11/89	40.72	1430.51
			12/19/89	40.87	1430.36
04/01/87	37.91	1433.32			
05/12/87	37.40	1433.83	04/17/90	41.22	1430.01
06/17/87	36.88	1434.35	06/14/90	41.28	1429.95
07/15/87	36.69	1434.54	09/06/90	41.63	1429.60
08/11/87	36.63	1434.60	10/31/90	41.92	1429.31
09/09/87	36.72	1434.51			

**154-065-23CAC****Till**

LS Elev (msl, ft)=1445.71

SI (ft.)=10-15

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	2.64	1443.07	05/06/88	2.55	1443.16
10/15/86	1.91	1443.80	06/03/88	2.79	1442.92
10/21/86	2.94	1442.77	07/07/88	4.28	1441.43
10/22/86	7.98	1437.73	08/03/88	5.20	1440.51
10/28/86	3.15	1442.56	09/06/88	6.10	1439.61
10/29/86	7.93	1437.78	10/12/88	6.65	1439.06
			11/08/88	6.50	1439.21
01/07/87	1.92	1443.79	12/15/88	6.14	1439.57
05/12/87	1.73	1443.98			
06/17/87	1.72	1443.99	05/11/89	2.69	1443.02
07/15/87	1.86	1443.85	06/16/89	3.39	1442.32
08/11/87	1.31	1444.40	08/08/89	5.56	1440.15
09/09/87	1.55	1444.16	10/11/89	7.00	1438.71
10/16/87	1.80	1443.91	12/19/89	6.81	1438.90
11/10/87	2.09	1443.62			
12/09/87	2.04	1443.67	04/17/90	6.99	1438.72
			06/14/90	5.14	1440.57
01/19/88	3.07	1442.64	09/06/90	4.10	1441.61
03/31/88	3.70	1442.01	10/31/90	4.51	1441.20

**154-065-28DAA1****Spiritwood Aquifer**

LS Elev (msl, ft)=1449.2

SI (ft.)=218-223

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	20.34	1428.86	05/11/89	23.12	1426.08
10/05/87	20.73	1428.47	06/16/89	22.58	1426.62
10/14/87	20.69	1428.51	07/12/89	22.98	1426.22
10/21/87	20.67	1428.53	08/08/89	23.32	1425.88
11/10/87	20.73	1428.47	09/13/89	23.56	1425.64
12/09/87	20.80	1428.40	10/11/89	23.99	1425.21
:			12/19/89	24.17	1425.03
01/19/88	20.85	1428.35			
02/24/88	20.71	1428.49	02/07/90	24.15	1425.05
03/31/88	20.76	1428.44	04/17/90	24.08	1425.12
05/06/88	20.91	1428.29	05/15/90	24.08	1425.12
06/03/88	20.95	1428.25	06/14/90	24.16	1425.04
07/07/88	21.24	1427.96	07/10/90	24.12	1425.08
08/03/88	21.77	1427.43	07/11/90	24.12	1425.08
09/06/88	22.20	1427.00	08/10/90	24.52	1424.68
10/12/88	22.64	1426.56	09/06/90	24.82	1424.38
11/08/88	22.86	1426.34	10/02/90	24.97	1424.23
12/15/88	22.85	1426.35	10/31/90	25.27	1423.93
			11/28/90	25.47	1423.73
03/20/89	22.61	1426.59			
04/19/89	22.30	1426.90	04/17/91	25.41	1423.79

**154-065-28DAA2**Gravel Sediments

LS Elev (msl, ft)=1449.4

SI (ft.)=35.5-45.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	20.79	1428.61	05/11/89	21.61	1427.79
10/05/87	21.00	1428.40	06/16/89	22.88	1426.52
10/14/87	20.94	1428.46	07/12/89	23.29	1426.11
10/21/87	20.90	1428.50	08/08/89	23.62	1425.78
11/10/87	21.03	1428.37	09/13/89	23.84	1425.56
12/09/87	21.09	1428.31	10/11/89	24.34	1425.06
			12/19/89	24.49	1424.91
01/19/88	21.09	1428.31			
02/24/88	21.02	1428.38	02/07/90	24.46	1424.94
03/31/88	21.05	1428.35	04/17/90	24.37	1425.03
05/06/88	21.22	1428.18	05/15/90	24.36	1425.04
06/03/88	21.23	1428.17	06/14/90	24.45	1424.95
07/07/88	21.51	1427.89	07/10/90	24.44	1424.96
08/03/88	22.04	1427.36	07/11/90	24.44	1424.96
09/06/88	22.49	1426.91	08/10/90	24.81	1424.59
10/12/88	22.91	1426.49	09/06/90	25.15	1424.25
11/08/88	23.14	1426.26	10/02/90	25.30	1424.10
12/15/88	23.14	1426.26	10/31/90	25.55	1423.85
			11/28/90	25.75	1423.65
03/20/89	22.93	1426.47			
04/19/89	22.72	1426.68	04/17/91	25.70	1423.70

**154-065-28DAA3**Spiritwood Aquifer

LS Elev (msl, ft)=1449.4

SI (ft.)=173-178

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	20.71	1428.69	05/11/89	22.45	1426.95
10/05/87	20.95	1428.45	06/16/89	22.81	1426.59
10/14/87	20.71	1428.69	07/12/89	23.19	1426.21
10/21/87	20.85	1428.55	08/08/89	23.53	1425.87
11/10/87	20.97	1428.43	09/13/89	23.78	1425.62
12/09/87	21.06	1428.34	10/11/89	24.23	1425.17
			12/19/89	24.39	1425.01
01/19/88	21.05	1428.35			
02/24/88	20.90	1428.50	02/07/90	24.36	1425.04
03/31/88	20.92	1428.48	04/17/90	24.29	1425.11
05/06/88	21.07	1428.33	05/15/90	24.30	1425.10
06/03/88	21.16	1428.24	06/14/90	24.35	1425.05
07/07/88	21.48	1427.92	07/10/90	24.34	1425.06
08/03/88	21.97	1427.43	07/11/90	24.34	1425.06
09/06/88	22.40	1427.00	08/10/90	24.74	1424.66
10/12/88	22.82	1426.58	09/06/90	24.98	1424.42
11/08/88	23.05	1426.35	10/02/90	25.16	1424.24
12/15/88	23.06	1426.34	10/31/90	25.46	1423.94
			11/28/90	25.66	1423.74
03/20/89	22.86	1426.54			
04/19/89	22.64	1426.76	04/17/91	25.62	1423.78

**154-065-28DAA4**Lake Clay

LS Elev (msl, ft)=1449.8

SI (ft.)=73-78

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	22.95	1426.85	04/19/89	22.73	1427.07
10/05/87	21.83	1427.97	05/11/89	22.76	1427.04
10/14/87	21.25	1428.55	06/16/89	22.68	1427.12
10/21/87	21.26	1428.54	07/12/89	22.70	1427.10
10/27/87	21.32	1428.48	08/08/89	22.79	1427.01
10/28/87	22.81	1426.99	09/13/89	23.03	1426.77
11/10/87	21.36	1428.44	10/11/89	23.20	1426.60
12/09/87	21.27	1428.53	12/19/89	23.67	1426.13
01/20/88	21.22	1428.58	02/07/90	23.90	1425.90
02/24/88	21.18	1428.62	04/17/90	24.13	1425.67
03/30/88	21.21	1428.59	05/15/90	24.19	1425.61
05/05/88	21.22	1428.58	06/14/90	23.87	1425.93
05/06/88	21.22	1428.58	07/10/90	23.82	1425.98
06/03/88	21.25	1428.55	07/11/90	23.82	1425.98
07/07/88	21.41	1428.39	08/10/90	24.02	1425.78
08/03/88	21.58	1428.22	09/06/90	24.23	1425.57
09/06/88	21.84	1427.96	10/02/90	24.40	1425.40
10/12/88	22.04	1427.76	10/31/90	24.67	1425.13
11/08/88	22.25	1427.55	11/28/90	24.90	1424.90
12/15/88	22.44	1427.36	04/17/91	25.55	1424.25
03/20/89	22.71	1427.09			

**154-065-28DAB**Spiritwood Aquifer

LS Elev (msl, ft)=1461.2

SI (ft.)=257-263

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/25/74	38.59	1422.61	10/12/88	34.58	1426.62
10/31/74	38.21	1422.99	11/08/88	34.74	1426.46
11/25/74	38.05	1423.15	12/15/88	34.81	1426.39
09/30/87	32.56	1428.64	05/11/89	33.92	1427.28
10/05/87	32.75	1428.45	06/16/89	34.24	1426.96
11/10/87	32.72	1428.48	08/08/89	34.98	1426.22
12/09/87	32.81	1428.39	10/11/89	35.69	1425.51
01/20/88	32.80	1428.40	12/19/89	35.84	1425.36
05/06/88	32.84	1428.36	04/17/90	35.74	1425.46
06/03/88	32.92	1428.28	06/14/90	35.81	1425.39
07/07/88	33.21	1427.99	09/06/90	36.49	1424.71
08/03/88	33.73	1427.47	10/31/90	36.91	1424.29
09/06/88	34.14	1427.06			

**154-065-28DCD**  
**Spiritwood Aquifer**

LS Elev (msl, ft) = 1446.83  
 SI (ft.) = 117-120

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/25/74	18.18	1428.65	05/06/88	13.29	1433.54
10/31/74	18.67	1428.16	06/03/88	13.37	1433.46
11/25/74	18.51	1428.32	07/07/88	13.59	1433.24
			08/03/88	13.98	1432.85
07/17/86	13.77	1433.06	09/06/88	14.31	1432.52
07/24/86	13.79	1433.04	10/11/88	14.80	1432.03
			11/08/88	15.09	1431.74
03/31/87	13.68	1433.15	12/13/88	15.23	1431.60
05/12/87	13.12	1433.71			
06/17/87	12.66	1434.17	05/11/89	15.32	1431.51
07/15/87	12.46	1434.37	06/16/89	15.36	1431.47
08/11/87	12.42	1434.41	08/08/89	15.85	1430.98
09/09/87	12.51	1434.32	10/11/89	16.27	1430.56
10/16/87	12.65	1434.18	12/19/89	16.60	1430.23
11/10/87	12.75	1434.08			
12/09/87	12.79	1434.04	04/17/90	16.92	1429.91
			06/14/90	17.03	1429.80
01/19/88	12.89	1433.94	09/06/90	17.40	1429.43
03/31/88	13.19	1433.64	10/31/90	17.69	1429.14

**154-065-28DDA1**

**Pierre Shale**

LS Elev (msl, ft) = 1446.8  
 SI (ft.) = 178-183

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	12.65	1434.15	06/16/89	15.45	1431.35
10/05/87	13.20	1433.60	07/12/89	15.72	1431.08
10/14/87	13.01	1433.79	08/08/89	15.96	1430.84
10/21/87	12.92	1433.88	09/13/89	16.15	1430.65
11/10/87	12.92	1433.88	10/11/89	16.56	1430.24
12/09/87	12.91	1433.89	12/19/89	16.78	1430.02
01/19/88	13.03	1433.77	02/07/90	16.92	1429.88
03/31/88	13.22	1433.58	04/17/90	17.17	1429.63
05/06/88	13.36	1433.44	05/15/90	17.39	1429.41
06/03/88	13.47	1433.33	06/14/90	17.53	1429.27
07/07/88	13.65	1433.15	07/10/90	17.38	1429.42
08/03/88	13.95	1432.85	07/11/90	17.38	1429.42
09/06/88	14.29	1432.51	08/10/90	17.62	1429.18
10/12/88	14.66	1432.14	09/06/90	17.78	1429.02
11/08/88	14.89	1431.91	10/02/90	17.83	1428.97
12/15/88	15.15	1431.65	10/31/90	17.94	1428.86
			11/28/90	18.03	1428.77
03/20/89	15.27	1431.53			
04/19/89	15.43	1431.37	04/17/91	18.39	1428.41
05/11/89	15.46	1431.34			

**154-065-31AAA**

LS Elev (msl,ft)=1457.64

SI (ft.)=14-19

Till

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/09/86	3.15	1454.49	03/31/88	6.78	1450.86
07/17/86	2.53	1455.11	05/06/88	5.63	1452.01
07/24/86	2.33	1455.31	06/03/88	5.13	1452.51
10/15/86	3.33	1454.31	07/07/88	5.86	1451.78
10/22/86	3.42	1454.22	08/03/88	6.71	1450.93
10/23/86	8.19	1449.45	09/06/88	7.66	1449.98
10/28/86	3.65	1453.99	10/12/88	8.72	1448.92
10/29/86	7.92	1449.72	11/09/88	8.99	1448.65
			12/15/88	9.57	1448.07
01/07/87	4.39	1453.25			
03/31/87	2.76	1454.88	05/11/89	8.21	1449.43
05/12/87	1.80	1455.84	06/16/89	7.52	1450.12
06/17/87	2.23	1455.41	08/08/89	8.16	1449.48
07/15/87	3.28	1454.36	10/11/89	9.16	1448.48
08/11/87	2.95	1454.69	12/19/89	10.75	1446.89
09/09/87	3.72	1453.92			
10/16/87	4.23	1453.41	04/17/90	12.73	1444.91
11/10/87	4.74	1452.90	06/14/90	12.10	1445.54
12/09/87	4.81	1452.83	09/06/90	9.24	1448.40
			10/31/90	9.75	1447.89
01/19/88	5.75	1451.89			

**154-065-33AAA**

LS Elev (msl,ft)=1440.64

SI (ft.)=30-35

Till

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/09/86	3.68	1436.96	05/06/88	5.39	1435.25
07/17/86	3.15	1437.49	06/03/88	5.10	1435.54
07/24/86	2.87	1437.77	07/07/88	5.36	1435.28
10/15/86	3.93	1436.71	08/03/88	6.11	1434.53
10/20/86	4.06	1436.58	09/06/88	6.43	1434.21
			10/12/88	7.53	1433.11
01/07/87	4.44	1436.20	11/08/88	7.98	1432.66
03/31/87	2.13	1438.51	12/15/88	8.63	1432.01
05/12/87	2.59	1438.05			
06/17/87	2.82	1437.82	05/11/89	8.21	1432.43
07/15/87	3.18	1437.46	06/16/89	7.81	1432.83
08/05/87	2.61	1438.03	08/08/89	8.01	1432.63
08/11/87	2.75	1437.89	10/11/89	8.13	1432.51
09/09/87	3.26	1437.38	12/19/89	9.43	1431.21
10/16/87	3.42	1437.22			
11/10/87	4.47	1436.17	04/17/90	10.55	1430.09
12/09/87	4.61	1436.03	06/14/90	10.30	1430.34
			09/06/90	8.30	1432.34
01/19/88	5.57	1435.07	10/31/90	8.92	1431.72
03/31/88	5.70	1434.94			

**154-065-35AAA**Spiritwood Aquifer

LS Elev (msl,ft)=1474.42

SI (ft.)=140-143

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	11.44	1462.98	12/09/87	7.04	1467.38
10/17/73	11.47	1462.95	01/19/88	7.68	1466.74
11/20/73	11.41	1463.01	03/31/88	8.40	1466.02
05/08/74	11.32	1463.10	05/06/88	8.26	1466.16
06/14/74	9.51	1464.91	06/03/88	8.04	1466.38
06/19/74	9.38	1465.04	07/07/88	8.39	1466.03
07/24/74	8.92	1465.50	08/03/88	9.02	1465.40
08/14/74	9.12	1465.30	09/06/88	9.50	1464.92
09/23/74	9.45	1464.97	10/12/88	10.13	1464.29
10/31/74	9.80	1464.62	11/08/88	10.33	1464.09
11/25/74	9.87	1464.55	12/15/88	10.57	1463.85
07/17/86	5.86	1468.56	05/11/89	10.80	1463.62
07/25/86	5.71	1468.71	06/16/89	10.51	1463.91
03/31/87	6.15	1468.27	08/08/89	10.81	1463.61
05/12/87	4.86	1469.56	10/11/89	11.29	1463.13
06/17/87	5.10	1469.32	12/19/89	11.71	1462.71
07/15/87	5.79	1468.63	04/17/90	12.44	1461.98
08/11/87	6.03	1468.39	06/14/90	12.30	1462.12
09/09/87	6.36	1468.06	09/06/90	12.16	1462.26
10/16/87	6.65	1467.77	10/31/90	12.47	1461.95
11/10/87	6.91	1467.51			

**154-065-35BBB**Spiritwood Aquifer

LS Elev (msl,ft)=1470.41

SI (ft.)=124-127

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/23/74	46.43	1423.98	05/06/88	40.18	1430.23
10/31/74	46.56	1423.85	06/03/88	40.61	1429.80
11/25/74	46.37	1424.04	07/07/88	41.14	1429.27
			08/03/88	41.87	1428.54
07/17/86	41.22	1429.19	09/06/88	42.38	1428.03
07/25/86	41.31	1429.10	10/11/88	42.75	1427.66
			11/08/88	42.59	1427.82
03/31/87	40.47	1429.94			
05/12/87	40.26	1430.15	05/11/89	42.27	1428.14
06/17/87	40.04	1430.37	06/16/89	42.67	1427.74
07/15/87	40.12	1430.29	08/08/89	43.86	1426.55
08/11/87	39.96	1430.45	10/11/89	44.20	1426.21
09/09/87	40.01	1430.40	12/19/89	44.22	1426.19
10/16/87	40.00	1430.41			
11/10/87	40.01	1430.40	04/17/90	44.09	1426.32
12/09/87	39.79	1430.62	06/14/90	44.45	1425.96
			09/06/90	45.52	1424.89
01/19/88	39.92	1430.49	10/31/90	45.79	1424.62
03/31/88	40.02	1430.39			

**154-066-01CCC****Spiritwood Aquifer**

LS Elev (msl,ft)=1455.55

SI (ft.)=160-163

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	14.94	1440.61	10/16/87	10.68	1444.87
10/17/73	14.80	1440.75	11/10/87	10.90	1444.65
11/20/73	14.69	1440.86	12/09/87	10.94	1444.61
01/08/74	14.80	1440.75	01/18/88	11.36	1444.19
02/14/74	15.10	1440.45	03/31/88	12.10	1443.45
03/28/74	15.40	1440.15	05/06/88	12.15	1443.40
05/08/74	15.17	1440.38	06/03/88	12.13	1443.42
06/18/74	13.17	1442.38	07/07/88	12.50	1443.05
07/24/74	12.70	1442.85	08/03/88	13.03	1442.52
08/20/74	12.74	1442.81	09/05/88	13.52	1442.03
09/25/74	12.81	1442.74	10/11/88	13.90	1441.65
10/31/74	12.86	1442.69	11/08/88	13.98	1441.57
11/26/74	12.79	1442.76	05/11/89	14.46	1441.09
12/31/74	12.91	1442.64	06/16/89	14.11	1441.44
07/17/86	11.04	1444.51	08/08/89	14.36	1441.19
03/31/87	10.91	1444.64	10/11/89	14.77	1440.78
05/12/87	10.05	1445.50	12/19/89	15.16	1440.39
06/17/87	10.17	1445.38	04/16/90	15.98	1439.57
07/15/87	10.49	1445.06	06/14/90	15.62	1439.93
08/11/87	10.57	1444.98	09/05/90	15.26	1440.29
09/09/87	10.66	1444.89	10/30/90	15.45	1440.10

**154-066-09DDD****Spiritwood Aquifer**

LS Elev (msl,ft)=1442.92

SI (ft.)=78-81

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/25/74	-0.53	1443.45	07/24/86	-2.30	1445.22
10/31/74	-0.62	1443.54	08/03/88	0.00	1442.92

09/88, flowing, cemented shut

**154-066-15DDD****Spiritwood Aquifer**

LS Elev (msl,ft)=1440.46

SI (ft.)=77-80

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	1.68	1438.78	10/16/87	-2.20	1442.66
10/17/73	1.35	1439.11	05/06/88	-1.25	1441.71
11/20/73	1.22	1439.24	06/03/88	-1.30	1441.76
05/08/74	1.24	1439.22	07/07/88	-0.65	1441.11
06/18/74	-1.08	1441.54	08/01/88	0.00	1440.46
07/24/74	-0.90	1441.36	09/05/88	0.55	1439.91
08/20/74	-0.52	1440.98	10/11/88	0.88	1439.58
09/25/74	-0.28	1440.74	11/08/88	0.93	1439.53
10/31/74	-0.33	1440.79	05/11/89	0.75	1439.71
07/24/86	-2.56	1443.02	06/16/89	0.41	1440.05
03/31/87	-2.64	1443.10	08/08/89	1.08	1439.38
05/12/87	-3.09	1443.55	10/11/89	1.51	1438.95
06/17/87	-2.96	1443.42	06/14/90	1.79	1438.67
07/15/87	-2.58	1443.04	09/05/90	1.77	1438.69
08/11/87	-2.89	1443.35	10/30/90	2.09	1438.37
09/09/87	-2.37	1442.83			

**154-066-17AAA**Till

LS Elev (msl,ft)=1450

SI (ft.)=13-18

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	6.14	1443.86	05/06/88	6.79	1443.21
10/15/86	5.48	1444.52	06/03/88	7.73	1442.27
10/22/86	5.50	1444.50	07/07/88	10.07	1439.93
10/23/86	6.70	1443.30	08/03/88	11.09	1438.91
10/28/86	5.71	1444.29	09/05/88	12.44	1437.56
10/29/86	6.79	1443.21	10/12/88	13.31	1436.69
			11/08/88	13.57	1436.43
01/08/87	6.09	1443.91	12/15/88	13.64	1436.36
03/31/87	1.14	1448.86			
05/12/87	4.33	1445.67	05/11/89	6.84	1443.16
06/17/87	6.12	1443.88	06/16/89	7.91	1442.09
07/15/87	7.59	1442.41	08/08/89	10.51	1439.49
08/11/87	7.09	1442.91	10/11/89	12.71	1437.29
09/09/87	7.38	1442.62	12/19/89	13.32	1436.68
10/16/87	7.59	1442.41			
11/10/87	6.81	1443.19	04/16/90	14.15	1435.85
12/09/87	6.81	1443.19	06/14/90	12.00	1438.00
			09/05/90	11.91	1438.09
01/18/88	7.90	1442.10	10/30/90	13.21	1436.79
03/31/88	8.09	1441.91			

**154-066-23DDD**Spiritwood Aquifer

LS Elev (msl,ft)=1466.62

SI (ft.)=120-123

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	27.79	1438.83	11/10/87	23.99	1442.63
10/17/73	27.52	1439.10	12/09/87	24.00	1442.62
11/20/73	27.36	1439.26			
			01/19/88	24.44	1442.18
01/08/74	27.49	1439.13	03/31/88	24.96	1441.66
05/08/74	27.51	1439.11	05/06/88	24.90	1441.72
06/18/74	25.56	1441.06	06/03/88	24.95	1441.67
07/24/74	25.52	1441.10	07/07/88	25.45	1441.17
08/20/74	25.60	1441.02	08/03/88	26.10	1440.52
09/25/74	25.77	1440.85	09/06/88	26.61	1440.01
10/31/74	24.78	1441.84	10/12/88	26.97	1439.65
11/26/74	25.68	1440.94	11/09/88	27.01	1439.61
12/31/74	25.79	1440.83	12/15/88	27.12	1439.50
07/17/86	24.13	1442.49	05/11/89	27.08	1439.54
07/30/86	23.68	1442.94	06/16/89	26.76	1439.86
			08/08/89	27.24	1439.38
03/31/87	23.83	1442.79	10/11/89	-1.97	1468.59
05/12/87	23.36	1443.26			
06/17/87	23.36	1443.26	04/17/90	28.63	1437.99
07/14/87	23.66	1442.96	06/14/90	28.07	1438.55
08/11/87	23.70	1442.92	09/06/90	28.05	1438.57
09/09/87	23.83	1442.79	10/31/90	28.32	1438.30
10/15/87	23.92	1442.70			

**154-066-25DDA**Spiritwood Aquifer

LS Elev (msl,ft)=1450.24

SI (ft.)=138-141

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/25/74	20.90	1429.34	05/06/88	16.50	1433.74
10/31/74	21.31	1428.93	06/03/88	16.56	1433.68
11/26/74	21.25	1428.99	07/07/88	16.82	1433.42
			08/03/88	17.08	1433.16
07/17/86	16.90	1433.34	09/06/88	17.49	1432.75
07/24/86	16.92	1433.32	10/12/88	17.98	1432.26
			11/09/88	18.23	1432.01
03/31/87	16.87	1433.37	12/15/88	18.43	1431.81
05/12/87	16.40	1433.84			
06/17/87	15.90	1434.34	05/11/89	18.57	1431.67
07/14/87	15.67	1434.57	06/16/89	18.58	1431.66
08/11/87	15.59	1434.65	08/08/89	19.00	1431.24
09/09/87	15.67	1434.57	10/11/89	19.40	1430.84
10/15/87	15.83	1434.41			
11/10/87	15.95	1434.29	04/17/90	20.11	1430.13
12/09/87	15.95	1434.29	06/14/90	20.18	1430.06
			09/06/90	20.51	1429.73
01/19/88	16.13	1434.11	10/31/90	20.76	1429.48
03/31/88	16.33	1433.91			

**154-066-32ADD**Lake Clay

LS Elev (msl,ft)=1447.92

SI (ft.)=10-15

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/16/86	3.49	1444.43			
10/15/86	2.59	1445.33	03/20/89	10.45	1437.47
10/21/86	2.74	1445.18	04/19/89	8.01	1439.91
			05/11/89	7.33	1440.59
01/07/87	3.42	1444.50	06/16/89	7.39	1440.53
03/31/87	1.75	1446.17	07/12/89	7.89	1440.03
05/12/87	2.69	1445.23	08/08/89	8.62	1439.30
06/17/87	3.04	1444.88	09/13/89	9.30	1438.62
07/14/87	3.14	1444.78	10/11/89	9.54	1438.38
08/11/87	3.92	1444.00	12/19/89	9.90	1438.02
09/09/87	4.45	1443.47			
10/15/87	4.60	1443.32	02/07/90	10.43	1437.49
11/10/87	4.71	1443.21	04/17/90	10.20	1437.72
12/09/87	4.35	1443.57	05/15/90	9.12	1438.80
			06/14/90	8.51	1439.41
01/19/88	6.22	1441.70	07/10/90	7.95	1439.97
03/31/88	6.16	1441.76	07/11/90	7.95	1439.97
05/06/88	4.65	1443.27	08/10/90	8.73	1439.19
06/03/88	5.54	1442.38	09/06/90	8.56	1439.36
07/07/88	7.42	1440.50	10/02/90	9.77	1438.15
08/03/88	8.35	1439.57	10/31/90	10.10	1437.82
09/06/88	9.35	1438.57	11/28/90	10.30	1437.62
10/12/88	9.92	1438.00			
11/09/88	9.98	1437.94	04/17/91	10.56	1437.36
12/15/88	10.08	1437.84			

**154-066-34ADD2**Till

LS Elev (msl, ft)=1434.8

SI (ft.)=35-40

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/16/87	4.43	1430.37	04/19/89	3.54	1431.26
09/29/87	2.97	1431.83	05/11/89	4.02	1430.78
10/05/87	3.32	1431.48	06/16/89	4.21	1430.59
10/14/87	3.41	1431.39	07/12/89	6.38	1428.42
10/21/87	3.37	1431.43	08/08/89	8.81	1425.99
10/27/87	3.32	1431.48	09/13/89	7.48	1427.32
10/28/87	3.30	1431.50	10/11/89	7.22	1427.58
11/10/87	3.32	1431.48	12/19/89	7.32	1427.48
12/09/87	2.88	1431.92			
			02/07/90	7.74	1427.06
01/19/88	4.52	1430.28	04/17/90	5.66	1429.14
02/24/88	4.53	1430.27	05/15/90	4.31	1430.49
03/31/88	2.85	1431.95	06/14/90	3.47	1431.33
06/03/88	3.91	1430.89	07/10/90	4.07	1430.73
07/07/88	6.92	1427.88	07/11/90	4.07	1430.73
08/03/88	8.48	1426.32	08/10/90	7.60	1427.20
09/06/88	9.19	1425.61	09/06/90	8.61	1426.19
10/12/88	7.70	1427.10	10/02/90	8.37	1426.43
11/09/88	7.02	1427.78	10/31/90	7.46	1427.34
12/15/88	7.46	1427.34	11/28/90	7.12	1427.68
03/20/89	6.57	1428.23	04/17/91	5.26	1429.54

**154-066-34ADD3**Till

LS Elev (msl, ft)=1434.7

SI (ft.)=3-13

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/16/87	2.65	1432.05	04/19/89	2.15	1432.55
09/29/87	1.61	1433.09	05/11/89	3.85	1430.85
10/05/87	3.20	1431.50	06/16/89	4.21	1430.49
10/14/87	3.57	1431.13	07/12/89	6.62	1428.08
10/21/87	3.51	1431.19	08/08/89	9.64	1425.06
10/27/87	3.43	1431.27	09/13/89	8.05	1426.65
10/28/87	3.39	1431.31	10/11/89	7.61	1427.09
11/10/87	3.41	1431.29	12/19/89	7.61	1427.09
12/09/87	2.98	1431.72			
			02/07/90	8.14	1426.56
01/19/88	4.87	1429.83	04/17/90	5.62	1429.08
02/24/88	4.88	1429.82	05/15/90	3.81	1430.89
03/31/88	2.96	1431.74	06/14/90	2.86	1431.84
06/03/88	4.30	1430.40	07/10/90	4.18	1430.52
07/07/88	7.73	1426.97	07/11/90	4.18	1430.52
08/03/88	9.32	1425.38	08/10/90	8.03	1426.67
09/06/88	10.06	1424.64	09/06/90	9.28	1425.42
10/12/88	8.22	1426.48	10/02/90	8.84	1425.86
11/09/88	7.54	1427.16	10/31/90	7.76	1426.94
12/15/88	6.51	1428.19	11/28/90	7.25	1427.45
03/20/89	6.84	1427.86	04/17/91	4.92	1429.78

**154-066-34ADD4**Pierre Shale

LS Elev (msl, ft)=1435

SI (ft.)=58-68

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/05/87	-4.10	1439.10	07/12/89	-1.62	1436.62
10/14/87	-4.09	1439.09	08/08/89	-0.96	1435.96
10/27/87	-4.10	1439.10	09/13/89	-0.88	1435.88
11/10/87	-4.05	1439.05	10/11/89	-0.81	1435.81
05/06/88	-3.77	1438.77	05/15/90	-1.05	1436.05
06/03/88	-3.42	1438.42	06/14/90	-1.40	1436.40
07/07/88	-2.50	1437.50	07/10/90	-1.58	1436.58
08/03/88	-1.98	1436.98	07/11/90	-1.58	1436.58
09/06/88	-1.13	1436.13	08/10/90	-0.73	1435.73
10/11/88	-1.08	1436.08	09/06/90	-0.43	1435.43
11/09/88	-1.22	1436.22	10/02/90	-0.25	1435.25
			10/31/90	-0.35	1435.35
05/11/89	-2.00	1437.00	04/17/91	-0.40	1435.40
06/16/89	-2.15	1437.15			

**154-066-36DCD**Spiritwood Aquifer

LS Elev (msl, ft)=1454.61

SI (ft.)=97-100

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	28.48	1426.13	12/09/87	20.69	1433.92
10/16/73	28.41	1426.20	03/31/88	20.97	1433.64
11/20/73	28.48	1426.13	05/06/88	21.10	1433.51
05/08/74	28.59	1426.02	06/03/88	21.24	1433.37
06/18/74	27.83	1426.78	07/07/88	21.50	1433.11
07/24/74	27.30	1427.31	08/03/88	21.77	1432.84
08/20/74	27.00	1427.61	09/06/88	22.02	1432.59
09/25/74	26.63	1427.98	10/12/88	22.36	1432.25
10/31/74	26.48	1428.13	11/09/88	22.53	1432.08
11/26/74	26.42	1428.19	12/15/88	22.64	1431.97
07/17/86	21.66	1432.95	05/11/89	22.11	1432.50
07/30/86	21.61	1433.00	06/16/89	23.18	1431.43
			08/08/89	23.53	1431.08
03/31/87	21.45	1433.16	10/11/89	23.79	1430.82
05/12/87	21.49	1433.12	12/19/89	24.07	1430.54
06/17/87	21.13	1433.48			
07/14/87	20.96	1433.65	04/17/90	24.44	1430.17
08/11/87	20.81	1433.80	06/14/90	24.54	1430.07
09/09/87	20.82	1433.79	09/06/90	24.89	1429.72
10/15/87	20.80	1433.81	10/31/90	25.05	1429.56
11/10/87	20.76	1433.85			

**154-067-03CCC****Spiritwood Aquifer**

LS Elev (msl, ft)=1448.42

SI (ft.)=97-103

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/18/69	6.99	1441.43	01/19/88	5.14	1443.28
01/22/70	6.95	1441.47	05/05/88	5.32	1443.10
04/14/70	6.79	1441.63	06/03/88	5.44	1442.98
05/13/70	6.46	1441.96	07/07/88	5.37	1443.05
07/07/70	6.32	1442.10	08/03/88	6.03	1442.39
10/06/70	6.29	1442.13	09/05/88	6.41	1442.01
12/01/70	6.24	1442.18	10/11/88	6.63	1441.79
			11/08/88	6.72	1441.70
			12/14/88	6.71	1441.71
07/17/86	4.52	1443.90			
03/31/87	4.09	1444.33	05/11/89	6.54	1441.88
05/12/87	3.91	1444.51	06/16/89	6.64	1441.78
06/17/87	4.08	1444.34	08/08/89	7.10	1441.32
07/15/87	4.25	1444.17	10/10/89	7.38	1441.04
08/11/87	4.38	1444.04	12/18/89	7.62	1440.80
09/10/87	4.59	1443.83			
10/16/87	4.71	1443.71	04/16/90	7.83	1440.59
11/09/87	4.86	1443.56	06/14/90	7.86	1440.56
12/08/87	4.85	1443.57	09/05/90	8.50	1439.92
			10/30/90	8.53	1439.89

**154-067-11DDDD1****Spiritwood Aquifer**

LS Elev (msl, ft)=1456.83

SI (ft.)=75-80

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
11/05/67	17.45	1439.38	09/05/68	16.92	1439.91
11/15/67	17.46	1439.37	09/10/68	16.95	1439.88
11/20/67	17.45	1439.38	09/15/68	16.89	1439.94
11/25/67	17.47	1439.36	09/20/68	16.91	1439.92
11/30/67	17.47	1439.36	09/25/68	16.91	1439.92
12/05/67	17.50	1439.33	09/30/68	16.92	1439.91
12/10/67	17.51	1439.32	10/05/68	16.93	1439.90
12/15/67	17.57	1439.26	10/10/68	16.96	1439.87
12/20/67	17.58	1439.25	10/15/68	16.96	1439.87
12/25/67	17.60	1439.23	10/20/68	16.98	1439.85
12/31/67	17.63	1439.20	10/25/68	17.00	1439.83
			10/31/68	17.02	1439.81
01/05/68	17.70	1439.13	11/05/68	17.06	1439.77
01/10/68	17.71	1439.12	11/15/68	17.07	1439.76
01/15/68	17.75	1439.08	11/20/68	17.09	1439.74
01/20/68	17.78	1439.05	11/25/68	17.11	1439.72
01/25/68	17.77	1439.06	11/30/68	17.09	1439.74
01/31/68	17.81	1439.02	12/05/68	17.13	1439.70
02/05/68	17.84	1438.99	12/10/68	17.18	1439.65
02/10/68	17.85	1438.98	12/15/68	17.26	1439.57
02/15/68	17.86	1438.97	12/20/68	17.29	1439.54
02/20/68	17.90	1438.93	12/25/68	17.35	1439.48
02/25/68	17.94	1438.89	12/31/68	17.40	1439.43
02/29/68	17.97	1438.86			
03/05/68	17.99	1438.84	01/05/69	17.46	1439.37
03/10/68	18.00	1438.83	01/10/69	17.53	1439.30
03/15/68	17.94	1438.89	01/15/69	17.50	1439.33
03/20/68	17.95	1438.88	01/20/69	17.54	1439.29
03/25/68	17.85	1438.98	01/25/69	17.58	1439.25
03/31/68	17.89	1438.94	02/15/69	17.75	1439.08
04/05/68	17.84	1438.99	02/20/69	17.77	1439.06
04/10/68	17.83	1439.00	02/25/69	17.78	1439.05
04/15/68	17.75	1439.08	02/28/69	17.82	1439.01
04/20/68	17.73	1439.10	03/05/69	17.80	1439.03
04/25/68	17.69	1439.14	03/10/69	17.81	1439.02

04/30/68	17.67	1439.16	03/15/69	17.85	1438.98
05/05/68	17.64	1439.19	03/20/69	17.85	1438.98
05/10/68	17.56	1439.27	03/25/69	17.87	1438.96
05/15/68	17.42	1439.41	03/31/69	17.88	1438.95
05/20/68	17.29	1439.54	04/05/69	17.85	1438.98
05/25/68	17.20	1439.63	04/10/69	17.83	1439.00
05/31/68	17.11	1439.72	04/15/69	17.45	1439.38
06/05/68	17.08	1439.75	04/20/69	17.20	1439.63
06/10/68	17.05	1439.78	04/25/69	17.01	1439.82
06/15/68	17.06	1439.77	04/30/69	16.88	1439.95
06/20/68	17.05	1439.78	05/05/69	16.83	1440.00
06/25/68	17.06	1439.77	05/10/69	16.75	1440.08
06/30/68	17.05	1439.78	05/15/69	16.70	1440.13
07/05/68	17.04	1439.79	05/20/69	16.68	1440.15
07/10/68	17.05	1439.78	05/25/69	16.60	1440.23
07/15/68	17.04	1439.79	05/31/69	16.56	1440.27
07/20/68	17.04	1439.79	06/05/69	16.55	1440.28
07/25/68	17.07	1439.76	06/10/69	16.52	1440.31
07/31/68	17.06	1439.77	06/15/69	16.55	1440.28
08/05/68	17.00	1439.83	06/20/69	16.62	1440.21
08/10/68	17.00	1439.83	06/25/69	16.59	1440.24
08/15/68	16.98	1439.85	06/30/69	16.45	1440.38
08/20/68	17.03	1439.80	07/05/69	16.39	1440.44
08/25/68	17.03	1439.80	07/10/69	16.30	1440.53
08/31/68	16.97	1439.86	07/15/69	16.33	1440.50

154-067-11DDD1

(Continued)

Spiritwood Aquifer

LS Elev (msl, ft) = 1456.83

SI (ft.) = 75-80

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/20/69	16.27	1440.56	05/20/70	16.26	1440.57
07/25/69	16.20	1440.63	05/25/70	16.16	1440.67
07/31/69	16.22	1440.61	05/31/70	16.11	1440.72
08/05/69	16.24	1440.59	06/05/70	16.06	1440.77
08/10/69	16.30	1440.53	06/10/70	16.03	1440.80
08/15/69	16.36	1440.47	06/15/70	16.01	1440.82
08/20/69	16.42	1440.41	06/25/70	15.95	1440.88
08/25/69	16.47	1440.36	06/30/70	15.97	1440.86
08/31/69	16.54	1440.29	07/05/70	15.95	1440.88
09/05/69	16.53	1440.30	07/10/70	15.96	1440.87
09/10/69	16.53	1440.30	07/15/70	15.93	1440.90
09/15/69	16.65	1440.18	07/20/70	15.92	1440.91
09/20/69	16.54	1440.29	07/25/70	15.89	1440.94
09/25/69	16.57	1440.26	07/31/70	15.77	1441.06
09/30/69	16.59	1440.24	08/05/70	15.75	1441.08
10/05/69	16.60	1440.23	08/10/70	15.77	1441.06
10/10/69	16.49	1440.34	08/15/70	15.73	1441.10
10/15/69	16.59	1440.24	08/20/70	15.72	1441.11
10/20/69	16.57	1440.26	08/25/70	15.75	1441.08
10/31/69	16.62	1440.21	08/31/70	15.78	1441.05
11/05/69	16.58	1440.25	09/05/70	15.76	1441.07
11/10/69	16.61	1440.22	09/10/70	15.77	1441.06
11/15/69	16.60	1440.23	09/15/70	15.73	1441.10
11/20/69	16.71	1440.12	09/20/70	15.70	1441.13
11/25/69	16.74	1440.09	09/25/70	15.76	1441.07
11/30/69	16.71	1440.12	09/30/70	15.77	1441.06
12/05/69	16.71	1440.12	10/05/70	15.77	1441.06
12/10/69	16.75	1440.08	10/10/70	15.80	1441.03
12/15/69	16.79	1440.04	10/15/70	15.81	1441.02
12/20/69	16.76	1440.07	11/05/70	15.82	1441.01
12/25/69	16.82	1440.01	11/15/70	16.03	1440.80
12/31/69	16.83	1440.00	11/20/70	15.99	1440.84
			11/25/70	15.92	1440.91
01/05/70	16.88	1439.95	11/30/70	16.11	1440.72
01/10/70	16.87	1439.96			
01/15/70	16.95	1439.88	07/17/86	16.33	1440.50
01/20/70	16.97	1439.86	07/29/86	15.37	1441.46
01/25/70	16.98	1439.85			
01/31/70	16.99	1439.84	03/31/87	15.94	1440.89
02/05/70	17.07	1439.76	05/12/87	15.91	1440.92
02/10/70	17.09	1439.74	06/17/87	16.17	1440.66
02/15/70	17.12	1439.71	07/15/87	16.88	1439.95
02/20/70	17.15	1439.68	08/11/87	17.04	1439.79
02/25/70	17.18	1439.65	09/10/87	17.28	1439.55
02/28/70	17.18	1439.65	10/16/87	17.05	1439.78
03/05/70	17.19	1439.64	11/09/87	16.82	1440.01
03/10/70	17.21	1439.62	12/08/87	16.90	1439.93
03/15/70	17.24	1439.59			
03/20/70	17.25	1439.58	01/18/88	17.31	1439.52
03/25/70	17.20	1439.63	03/30/88	17.62	1439.21
03/31/70	17.13	1439.70	05/05/88	17.51	1439.32
04/05/70	17.02	1439.81	06/03/88	18.34	1438.49
04/10/70	16.96	1439.87	07/07/88	18.58	1438.25
04/15/70	16.88	1439.95	08/03/88	18.44	1438.39
04/20/70	16.77	1440.06	09/05/88	18.47	1438.36
04/25/70	16.71	1440.12	10/11/88	18.59	1438.24
04/30/70	16.66	1440.17	11/08/88	18.78	1438.05
05/05/70	16.61	1440.22	12/14/88	18.78	1438.05
05/10/70	16.52	1440.31			
05/15/70	16.38	1440.45	05/11/89	19.10	1437.73

**154-067-11DDD1**                   **(Continued)**                   **LS Elev (msl,ft)=1456.83**  
**Spiritwood Aquifer**   **SI (ft.)=75-80**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/16/89	18.59	1438.24	04/16/90	19.82	1437.01
08/08/89	19.89	1436.94	06/14/90	19.63	1437.20
10/10/89	19.43	1437.40	09/05/90	20.22	1436.61
12/18/89	19.56	1437.27	10/30/90	20.36	1436.47

**154-067-12BBC1**                   **LS Elev (msl,ft)=1439.9**  
**Pierre Shale**   **SI (ft.)=92-97**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	-0.95	1440.85	06/16/89	1.65	1438.25
10/05/87	-0.39	1440.29	07/12/89	1.76	1438.14
10/14/87	-0.39	1440.29	08/08/89	1.89	1438.01
10/21/87	-0.39	1440.29	09/13/89	1.94	1437.96
10/27/87	-0.31	1440.21	10/10/89	2.08	1437.82
10/28/87	-0.14	1440.04			
11/09/87	-0.26	1440.16	05/15/90	2.67	1437.23
			06/14/90	2.55	1437.35
05/05/88	0.39	1439.51	07/10/90	2.58	1437.32
06/03/88	0.51	1439.39	07/11/90	2.58	1437.32
07/07/88	0.55	1439.35	08/10/90	2.74	1437.16
08/03/88	0.77	1439.13	09/05/90	2.78	1437.12
09/05/88	0.99	1438.91	10/02/90	2.82	1437.08
10/10/88	1.21	1438.69	10/30/90	2.90	1437.00
11/08/88	1.32	1438.58	11/28/90	2.96	1436.94
04/19/89	1.74	1438.16	04/17/91	3.29	1436.61
05/11/89	1.70	1438.20			

**154-067-12BBC2**                   **LS Elev (msl,ft)=1440.2**  
**Till**   **SI (ft.)=33-38**

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	3.35	1436.85	04/19/89	7.21	1432.99
10/05/87	3.58	1436.62	05/11/89	6.92	1433.28
10/14/87	3.77	1436.43	06/16/89	6.32	1433.88
10/21/87	4.10	1436.10	07/12/89	5.87	1434.33
10/27/87	4.14	1436.06	08/08/89	6.64	1433.56
10/28/87	5.53	1434.67	09/13/89	7.62	1432.58
11/09/87	4.74	1435.46	10/10/89	7.39	1432.81
12/08/87	4.65	1435.55	12/18/89	8.25	1431.95
01/18/88	5.65	1434.55	02/07/90	9.13	1431.07
02/24/88	6.76	1433.44	04/16/90	9.22	1430.98
03/30/88	6.12	1434.08	05/15/90	8.25	1431.95
05/05/88	5.49	1434.71	06/14/90	6.22	1433.98
06/03/88	7.95	1432.25	07/10/90	1.55	1438.65
07/07/88	5.60	1434.60	07/11/90	1.55	1438.65
08/03/88	5.87	1434.33	08/10/90	5.09	1435.11
09/05/88	6.52	1433.68	09/05/90	6.30	1433.90
10/11/88	8.28	1431.92	10/02/90	7.04	1433.16
11/08/88	8.40	1431.80	10/30/90	7.81	1432.39
12/14/88	8.46	1431.74	11/28/90	8.16	1432.04
03/20/89	8.91	1431.29	04/17/91	8.92	1431.28

**154-067-12BBC3**Till

LS Elev (msl, ft)=1440.7

SI (ft.)=3-13

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	4.81	1435.89	04/19/89	7.73	1432.97
10/05/87	4.67	1436.03	05/11/89	7.25	1433.45
10/14/87	5.12	1435.58	06/16/89	7.44	1433.26
10/21/87	5.04	1435.66	07/12/89	6.24	1434.46
10/27/87	5.17	1435.53	08/08/89	7.26	1433.44
10/28/87	4.81	1435.89	09/13/89	8.18	1432.52
11/09/87	5.56	1435.14	10/10/89	7.74	1432.96
12/08/87	5.42	1435.28	12/18/89	8.73	1431.97
01/18/88	6.86	1433.84	02/07/90	9.53	1431.17
02/24/88	7.69	1433.01	04/16/90	9.78	1430.92
03/30/88	6.90	1433.80	05/15/90	8.50	1432.20
05/05/88	5.95	1434.75	06/14/90	6.04	1434.66
06/03/88	5.55	1435.15	07/10/90	3.23	1437.47
07/07/88	6.94	1433.76	07/11/90	3.23	1437.47
08/03/88	7.05	1433.65	08/10/90	5.41	1435.29
09/05/88	6.42	1434.28	09/05/90	6.55	1434.15
10/11/88	8.95	1431.75	10/02/90	7.18	1433.52
11/08/88	9.07	1431.63	10/30/90	8.31	1432.39
12/14/88	8.80	1431.90	11/28/90	8.66	1432.04
03/20/89	9.38	1431.32	04/17/91	9.38	1431.32

**154-067-15BBB**Spiritwood Aquifer

LS Elev (msl, ft)=1474.8

SI (ft.)=147-153

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/23/70	33.14	1441.66	03/30/88	31.23	1443.57
07/07/70	33.24	1441.56	05/05/88	31.30	1443.50
09/09/70	33.65	1441.15	06/03/88	31.44	1443.36
10/06/70	33.18	1441.62	07/07/88	31.63	1443.17
11/12/70	33.23	1441.57	08/03/88	31.90	1442.90
12/01/70	33.12	1441.68	09/05/88	32.29	1442.51
			10/11/88	32.54	1442.26
07/17/86	30.76	1444.04	11/08/88	32.58	1442.22
07/30/86	30.65	1444.15	12/14/88	32.64	1442.16
03/31/87	30.42	1444.38	05/11/89	32.62	1442.18
05/12/87	30.06	1444.74	06/16/89	32.66	1442.14
06/17/87	30.15	1444.65	08/08/89	33.04	1441.76
07/15/87	30.29	1444.51	10/10/89	33.29	1441.51
08/11/87	30.44	1444.36	12/18/89	33.54	1441.26
09/10/87	30.59	1444.21			
10/16/87	30.71	1444.09	04/16/90	33.75	1441.05
11/09/87	30.86	1443.94	06/14/90	33.78	1441.02
12/08/87	30.83	1443.97	09/05/90	34.18	1440.62
01/18/88	31.11	1443.69	10/30/90	34.38	1440.42

**154-067-26BAA**Spiritwood Aquifer

LS Elev (msl, ft)=1448.3

SI (ft.)=137-143

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/23/70	9.83	1438.47	03/29/88	8.55	1439.75
07/07/70	9.99	1438.31	05/04/88	8.60	1439.70
09/09/70	10.25	1438.05	05/05/88	8.60	1439.70
10/06/70	10.27	1438.03	06/03/88	8.78	1439.52
11/12/70	10.31	1437.99	07/07/88	9.09	1439.21
12/01/70	10.21	1438.09	08/03/88	9.46	1438.84
			09/05/88	10.87	1437.43
07/17/86	8.31	1439.99	10/11/88	9.98	1438.32
07/30/86	8.18	1440.12	11/08/88	10.02	1438.28
			12/14/88	9.98	1438.32
03/31/87	7.83	1440.47			
05/12/87	7.61	1440.69	05/11/89	9.75	1438.55
06/17/87	7.79	1440.51	06/16/89	9.81	1438.49
07/15/87	7.88	1440.42	08/08/89	10.33	1437.97
08/11/87	8.02	1440.28	10/10/89	10.54	1437.76
09/09/87	8.18	1440.12	12/18/89	10.74	1437.56
10/16/87	8.31	1439.99			
11/09/87	8.45	1439.85	04/16/90	10.80	1437.50
12/08/87	8.38	1439.92	06/14/90	10.78	1437.52
			09/05/90	11.22	1437.08
01/19/88	8.60	1439.70	10/30/90	11.38	1436.92

**154-067-26BAA2**Till

LS Elev (msl, ft)=1447.8

SI (ft.)=8-18

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	9.51	1438.29	09/05/88	11.98	1435.82
10/05/87	10.00	1437.80	10/11/88	13.28	1434.52
10/14/87	10.24	1437.56	11/08/88	13.47	1434.33
10/21/87	10.24	1437.56	12/14/88	13.64	1434.16
10/27/87	10.34	1437.46			
10/28/87	13.49	1434.31	05/11/89	6.06	1441.74
11/09/87	10.37	1437.43	06/16/89	8.46	1439.34
12/08/87	10.37	1437.43	08/08/89	12.46	1435.34
			10/10/89	13.14	1434.66
01/18/88	12.39	1435.41	12/18/89	13.64	1434.16
03/30/88	7.91	1439.89			
05/05/88	6.50	1441.30	04/16/90	14.81	1432.99
06/03/88	8.74	1439.06	06/14/90	15.09	1432.71
07/07/88	12.35	1435.45	09/05/90	14.41	1433.39
08/03/88	12.74	1435.06	10/30/90	14.26	1433.54

**154-067-32AAA**Till

LS Elev (msl, ft)=1500

SI (ft.)=47-52

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/16/86	11.98	1488.02	06/03/88	14.51	1485.49
10/15/86	10.82	1489.18	07/07/88	14.31	1485.69
10/21/86	10.80	1489.20	08/03/88	14.51	1485.49
			09/05/88	14.63	1485.37
01/07/87	11.87	1488.13	10/11/88	15.12	1484.88
03/31/87	11.35	1488.65	11/08/88	15.27	1484.73
05/12/87	11.15	1488.85	12/14/88	14.91	1485.09
06/17/87	11.12	1488.88			
07/15/87	11.57	1488.43	05/11/89	15.92	1484.08
08/11/87	12.01	1487.99	08/08/89	15.80	1484.20
09/10/87	12.66	1487.34	10/10/89	15.57	1484.43
10/16/87	13.12	1486.88	12/18/89	16.15	1483.85
11/09/87	13.53	1486.47			
12/08/87	13.24	1486.76	04/16/90	16.82	1483.18
			06/14/90	16.61	1483.39
01/18/88	14.09	1485.91	09/05/90	16.03	1483.97
03/30/88	14.71	1485.29	10/30/90	16.42	1483.58
05/05/88	14.73	1485.27			

**154-067-35ADD3**Spiritwood Aquifer

LS Elev (msl, ft)=1434.6

SI (ft.)=125-130

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	-2.70	1437.30	08/08/89	-0.76	1435.36
10/05/87	-2.67	1437.27	09/13/89	-0.85	1435.45
10/14/87	-2.64	1437.24	10/10/89	-0.80	1435.40
10/27/87	-2.64	1437.24			
11/09/87	-2.59	1437.19	04/16/90	-0.66	1435.26
			05/15/90	-1.20	1435.80
05/04/88	-2.85	1437.45	06/14/90	-1.03	1435.63
06/03/88	-2.32	1436.92	07/10/90	-1.04	1435.64
07/07/88	-1.89	1436.49	07/11/90	-1.04	1435.64
08/03/88	-1.40	1436.00	08/10/90	-0.31	1434.91
09/05/88	-1.15	1435.75	09/05/90	-0.21	1434.81
10/10/88	-1.16	1435.76	10/02/90	-0.15	1434.75
11/08/88	-1.25	1435.85	10/30/90	-0.15	1434.75
05/11/89	-1.87	1436.47	04/17/91	-0.46	1435.06
06/16/89	-1.63	1436.23			

**154-067-35ADD4**

Till

LS Elev (msl, ft)=1434.9  
SI (ft.)=75-80

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	-1.99	1436.89	07/12/89	-0.36	1435.26
10/05/87	-1.97	1436.87	08/08/89	-0.01	1434.91
10/14/87	-1.93	1436.83	09/13/89	-0.06	1434.96
10/27/87	-1.95	1436.85	10/10/89	-0.02	1434.92
11/09/87	-1.91	1436.81	04/16/90	0.06	1434.84
05/04/88	-2.02	1436.92	05/15/90	-0.35	1435.25
06/03/88	-1.56	1436.46	06/14/90	-0.24	1435.14
07/07/88	-1.12	1436.02	07/10/90	-0.31	1435.21
08/03/88	-0.65	1435.55	07/11/90	0.31	1434.59
09/05/88	-0.39	1435.29	08/10/90	0.42	1434.48
10/10/88	-0.39	1435.29	09/05/90	0.54	1434.36
11/08/88	-0.48	1435.38	10/02/90	0.57	1434.33
			10/30/90	0.58	1434.32
05/11/89	-0.99	1435.89			
06/16/89	-0.82	1435.72	04/17/91	0.32	1434.58

**154-067-35ADD5**

Lake Clay

LS Elev (msl, ft)=1435  
SI (ft.)=34-39

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	3.63	1431.37	04/19/89	5.70	1429.30
10/05/87	4.96	1430.04	05/11/89	4.13	1430.87
10/14/87	4.06	1430.94	06/16/89	4.46	1430.54
10/21/87	4.33	1430.67	07/12/89	4.66	1430.34
10/27/87	4.59	1430.41	08/08/89	5.65	1429.35
10/28/87	12.62	1422.38	09/13/89	6.39	1428.61
11/09/87	4.48	1430.52	10/10/89	6.52	1428.48
12/08/87	4.54	1430.46	12/18/89	6.97	1428.03
01/18/88	5.62	1429.38	02/07/90	7.60	1427.40
02/24/88	6.02	1428.98	04/16/90	7.82	1427.18
03/30/88	5.68	1429.32	05/15/90	6.63	1428.37
05/05/88	4.27	1430.73	06/14/90	5.54	1429.46
06/03/88	4.51	1430.49	07/10/90	4.36	1430.64
07/07/88	5.50	1429.50	07/11/90	4.36	1430.64
08/03/88	6.05	1428.95	08/10/90	5.06	1429.94
09/05/88	6.72	1428.28	09/05/90	5.75	1429.25
10/11/88	7.06	1427.94	10/02/90	6.13	1428.87
11/08/88	7.17	1427.83	10/30/90	6.39	1428.61
12/14/88	7.24	1427.76	11/28/90	6.47	1428.53
03/20/89	7.71	1427.29	04/17/91	6.77	1428.23

**154-067-35ADD6**

Till

LS Elev (msl,ft)=1435

SI (ft.)=4-14

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/29/87	4.41	1430.59	04/19/89	3.09	1431.91
10/05/87	4.66	1430.34	05/11/89	4.48	1430.52
10/14/87	4.90	1430.10	06/16/89	4.45	1430.55
10/21/87	4.97	1430.03	07/12/89	5.76	1429.24
10/27/87	5.07	1429.93	08/08/89	6.80	1428.20
10/28/87	5.04	1429.96	09/13/89	7.28	1427.72
11/09/87	5.22	1429.78	10/10/89	7.42	1427.58
12/08/87	5.27	1429.73	12/18/89	7.82	1427.18
01/18/88	6.54	1428.46	02/07/90	8.55	1426.45
02/24/88	7.27	1427.73	04/16/90	8.37	1426.63
03/30/88	6.36	1428.64	05/15/90	6.61	1428.39
05/05/88	4.60	1430.40	06/14/90	5.45	1429.55
06/03/88	5.53	1429.47	07/10/90	4.01	1430.99
07/07/88	6.44	1428.56	07/11/90	4.01	1430.99
08/03/88	7.25	1427.75	08/10/90	5.94	1429.06
09/05/88	7.90	1427.10	09/05/90	6.44	1428.56
10/11/88	8.25	1426.75	10/02/90	6.83	1428.17
11/08/88	8.31	1426.69	10/30/90	7.10	1427.90
12/14/88	8.40	1426.60	11/28/90	7.23	1427.77
03/20/89	8.92	1426.08	04/17/91	6.83	1428.17

**154-068-01AAA**

Spiritwood Aquifer

LS Elev (msl,ft)=1557.32

SI (ft.)=197-203

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/23/70	107.70	1449.62	01/18/88	103.44	1453.88
09/09/70	107.53	1449.79	03/30/88	103.34	1453.98
10/06/70	107.47	1449.85	05/05/88	103.41	1453.91
11/12/70	107.60	1449.72	06/03/88	103.55	1453.77
12/01/70	107.33	1449.99	07/07/88	103.54	1453.78
			08/03/88	104.01	1453.31
07/17/86	103.38	1453.94	09/05/88	104.03	1453.29
07/29/86	103.42	1453.90	10/11/88	104.07	1453.25
			11/08/88	103.85	1453.47
03/31/87	103.19	1454.13	12/14/88	103.89	1453.43
05/12/87	103.12	1454.20			
06/17/87	103.03	1454.29	05/11/89	104.20	1453.12
07/15/87	103.00	1454.32	08/08/89	104.43	1452.89
08/11/87	103.09	1454.23			
09/10/87	103.17	1454.15	04/16/90	104.77	1452.55
10/16/87	103.20	1454.12	06/14/90	104.75	1452.57
11/09/87	103.39	1453.93	09/05/90	105.10	1452.22
12/08/87	103.12	1454.20	10/30/90	105.12	1452.20

**155-063-25AAA**Starkweather Aquifer

LS Elev (msl,ft)=1476.3

SI (ft.)=220-223

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	10.56	1465.74	12/09/87	7.17	1469.13
10/18/73	10.33	1465.97	01/19/88	7.52	1468.78
11/19/73	10.30	1466.00	03/31/88	8.11	1468.19
03/29/74	10.30	1466.00	05/06/88	8.23	1468.07
05/07/74	10.44	1465.86	06/04/88	8.24	1468.06
06/18/74	8.99	1467.31	07/07/88	8.38	1467.92
07/23/74	8.02	1468.28	08/03/88	8.64	1467.66
08/16/74	7.74	1468.56	09/06/88	8.73	1467.57
09/24/74	7.80	1468.50	10/12/88	9.05	1467.25
10/30/74	7.94	1468.36	11/09/88	9.19	1467.11
11/26/74	8.03	1468.27	12/15/88	9.43	1466.87
07/18/86	8.14	1468.16	05/12/89	10.04	1466.26
07/22/86	8.00	1468.30	06/15/89	9.67	1466.63
			08/09/89	9.71	1466.59
04/01/87	7.95	1468.35	10/11/89	9.88	1466.42
05/12/87	7.99	1468.31	12/19/89	10.29	1466.01
06/17/87	6.64	1469.66			
07/15/87	6.63	1469.67	04/17/90	10.95	1465.35
08/11/87	6.57	1469.73	06/14/90	11.01	1465.29
09/10/87	6.64	1469.66	09/06/90	11.08	1465.22
10/16/87	6.85	1469.45	10/31/90	11.14	1465.16
11/10/87	7.07	1469.23			

**155-064-03AAA**Unnamed

LS Elev (msl,ft)=1461.8

SI (ft.)=77-80

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	5.60	1456.20	07/15/87	6.35	1455.45
10/17/73	4.19	1457.61	08/11/87	6.41	1455.39
11/19/73	4.82	1456.98	09/10/87	6.93	1454.87
			10/16/87	7.31	1454.49
01/08/74	6.40	1455.40	11/10/87	7.57	1454.23
02/14/74	8.03	1453.77	12/09/87	7.66	1454.14
03/29/74	8.69	1453.11			
05/09/74	5.50	1456.30	01/19/88	8.25	1453.55
06/18/74	2.27	1459.53	03/31/88	7.94	1453.86
07/23/74	4.39	1457.41	05/06/88	7.76	1454.04
08/16/74	6.07	1455.73	06/04/88	7.13	1454.67
09/26/74	7.04	1454.76	07/07/88	6.96	1454.84
10/30/74	7.43	1454.37	08/03/88	6.72	1455.08
11/26/74	7.48	1454.32	09/06/88	6.22	1455.58
12/31/74	8.05	1453.75	10/12/88	7.09	1454.71
			11/09/88	7.46	1454.34
07/18/86	4.62	1457.18	12/15/88	7.90	1453.90
07/23/86	4.39	1457.41			
			05/12/89	7.39	1454.41
04/01/87	6.16	1455.64	08/09/89	8.09	1453.71
05/12/87	6.51	1455.29	10/11/89	8.94	1452.86
06/17/87	4.76	1457.04			

**155-065-08DDD**Unnamed

LS Elev (msl,ft)=1456.4

SI (ft.)=47-50

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	9.30	1447.10	12/09/87	8.00	1448.40
10/17/73	8.84	1447.56	01/18/88	8.36	1448.04
11/20/73	8.78	1447.62	03/30/88	7.29	1449.11
05/08/74	8.80	1447.60	05/06/88	8.94	1447.46
06/18/74	4.71	1451.69	06/03/88	8.49	1447.91
07/23/74	5.73	1450.67	07/07/88	8.67	1447.73
08/20/74	6.96	1449.44	08/03/88	9.02	1447.38
09/25/74	7.52	1448.88	09/05/88	9.40	1447.00
10/30/74	7.78	1448.62	10/12/88	9.88	1446.52
11/26/74	7.85	1448.55	11/08/88	10.04	1446.36
			12/15/88	10.37	1446.03
07/17/86	5.00	1451.40			
07/23/86	4.69	1451.71	05/11/89	10.27	1446.13
			06/16/89	9.39	1447.01
03/31/87	7.48	1448.92	08/08/89	9.64	1446.76
05/12/87	5.58	1450.82	10/10/89	10.38	1446.02
06/17/87	6.13	1450.27	12/19/89	11.32	1445.08
07/15/87	7.22	1449.18			
08/11/87	7.23	1449.17	04/16/90	12.62	1443.78
09/10/87	7.46	1448.94	06/14/90	11.42	1444.98
10/16/87	7.73	1448.67	09/05/90	11.20	1445.20
11/10/87	7.90	1448.50	10/30/90	11.72	1444.68

**155-065-18AAA**Till

LS Elev (msl,ft)=1461.37

SI (ft.)=26-31

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
07/09/86	10.89	1450.48	05/06/88	13.02	1448.35
07/17/86	10.69	1450.68	06/03/88	12.38	1448.99
07/23/86	10.49	1450.88	07/07/88	12.67	1448.70
10/15/86	11.22	1450.15	08/03/88	13.21	1448.16
10/21/86	11.31	1450.06	09/05/88	13.69	1447.68
			10/12/88	14.21	1447.16
01/08/87	12.02	1449.35	11/08/88	14.44	1446.93
03/31/87	12.17	1449.20	12/15/88	14.75	1446.62
05/12/87	9.98	1451.39			
06/17/87	10.00	1451.37	05/11/89	14.99	1446.38
07/15/87	10.33	1451.04	06/16/89	14.31	1447.06
08/11/87	9.63	1451.74	08/08/89	14.31	1447.06
09/10/87	9.98	1451.39	10/10/89	14.94	1446.43
10/16/87	10.41	1450.96	12/19/89	15.84	1445.53
11/10/87	10.83	1450.54			
12/09/87	10.98	1450.39	04/16/90	17.17	1444.20
			06/14/90	16.79	1444.58
01/18/88	11.78	1449.59	09/05/90	15.51	1445.86
03/30/88	13.09	1448.28	10/30/90	15.96	1445.41

**155-065-30BBB**Spiritwood Aquifer

LS Elev (msl,ft)=1456.11

SI (ft.)=98-101

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/25/74	10.29	1445.82	05/06/88	10.57	1445.54
10/30/74	10.48	1445.63	06/03/88	10.56	1445.55
11/26/74	10.46	1445.65	07/07/88	10.71	1445.40
			08/03/88	10.97	1445.14
07/17/86	8.84	1447.27	09/05/88	11.50	1444.61
07/23/86	8.74	1447.37	10/12/88	11.91	1444.20
			11/08/88	12.08	1444.03
03/31/87	9.23	1446.88	12/15/88	12.35	1443.76
05/12/87	8.39	1447.72			
06/17/87	8.17	1447.94	05/11/89	13.05	1443.06
07/15/87	8.33	1447.78	06/16/89	12.58	1443.53
08/11/87	8.43	1447.68	08/08/89	12.62	1443.49
09/10/87	8.56	1447.55	10/11/89	13.02	1443.09
10/16/87	8.68	1447.43	12/19/89	13.42	1442.69
11/10/87	8.93	1447.18			
12/09/87	9.02	1447.09	04/16/90	14.57	1441.54
			06/14/90	14.40	1441.71
01/18/88	9.43	1446.68	09/05/90	13.74	1442.37
03/30/88	10.41	1445.70	10/30/90	13.93	1442.18

**155-065-32BBB**Till

LS Elev (msl,ft)=1454.74

SI (ft.)=13-18

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	6.54	1448.20	05/06/88	7.05	1447.69
10/15/86	6.47	1448.27	06/03/88	7.15	1447.59
10/22/86	6.61	1448.13	07/07/88	7.84	1446.90
10/23/86	6.80	1447.94	08/03/88	8.46	1446.28
10/28/86	6.80	1447.94	09/05/88	9.00	1445.74
10/29/86	6.91	1447.83	10/12/88	9.76	1444.98
			11/08/88	10.01	1444.73
03/31/87	5.79	1448.95	12/15/88	10.40	1444.34
05/12/87	2.36	1452.38			
06/17/87	5.07	1449.67	05/11/89	8.40	1446.34
07/15/87	6.69	1448.05	06/16/89	8.38	1446.36
08/11/87	6.86	1447.88	08/08/89	9.24	1445.50
09/10/87	7.19	1447.55	10/10/89	9.83	1444.91
10/16/87	7.45	1447.29	12/19/89	10.91	1443.83
11/10/87	7.89	1446.85			
12/09/87	7.76	1446.98	04/16/90	11.47	1443.27
			06/14/90	10.94	1443.80
01/18/88	8.04	1446.70	09/05/90	10.26	1444.48
03/30/88	7.76	1446.98	10/30/90	10.79	1443.95

**155-065-35DDD**Till

LS Elev (msl,ft)=1465.55

SI (ft.)=13-18

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/15/86	7.29	1458.26	07/07/88	9.93	1455.62
10/21/86	7.30	1458.25	08/03/88	11.35	1454.20
10/22/86	7.36	1458.19	09/06/88	12.75	1452.80
10/28/86	7.33	1458.22	10/11/88	13.77	1451.78
10/29/86	7.42	1458.13	11/08/88	14.10	1451.45
05/12/87	5.79	1459.76	05/11/89	13.30	1452.25
06/17/87	6.98	1458.57	06/16/89	13.07	1452.48
07/15/87	7.81	1457.74	08/08/89	14.32	1451.23
08/11/87	8.43	1457.12	10/11/89	15.77	1449.78
09/10/87	9.30	1456.25	12/19/89	16.41	1449.14
10/16/87	9.25	1456.30			
11/10/87	9.19	1456.36	04/17/90	17.12	1448.43
12/09/87	8.91	1456.64	06/14/90	17.14	1448.41
			09/06/90	17.25	1448.30
05/06/88	8.27	1457.28	10/31/90	17.66	1447.89
06/03/88	8.24	1457.31			

**155-065-36CAB**Gravel Sediments

LS Elev (msl,ft)=1476.49

SI (ft.)=31.5-36.5

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
06/30/86	31.15	1445.34			
10/15/86	31.06	1445.43	04/19/89	31.51	1444.98
10/21/86	30.74	1445.75	05/11/89	31.73	1444.76
10/22/86	30.66	1445.83	06/16/89	31.96	1444.53
10/28/86	30.15	1446.34	07/12/89	32.23	1444.26
10/29/86	30.06	1446.43	08/08/89	32.39	1444.10
			09/13/89	32.38	1444.11
05/11/87	28.29	1448.20	10/11/89	32.42	1444.07
06/17/87	29.53	1446.96	12/19/89	31.97	1444.52
07/15/87	30.64	1445.85			
08/11/87	31.06	1445.43	02/07/90	30.86	1445.63
09/10/87	31.22	1445.27	04/17/90	31.81	1444.68
10/15/87	31.04	1445.45	05/15/90	32.25	1444.24
11/10/87	30.86	1445.63	06/14/90	32.36	1444.13
12/09/87	31.18	1445.31	07/10/90	32.39	1444.10
			07/11/90	32.39	1444.10
05/06/88	31.18	1445.31	08/10/90	32.64	1443.85
06/03/88	31.50	1444.99	09/06/90	32.56	1443.93
07/07/88	31.72	1444.77	10/02/90	32.60	1443.89
08/03/88	32.00	1444.49	10/31/90	32.61	1443.88
09/06/88	32.09	1444.40	11/28/90	32.62	1443.87
10/11/88	32.08	1444.41			
11/08/88	31.97	1444.52	04/17/91	32.17	1444.32

**155-065-36CAB2**Pierre Shale

LS Elev (msl, ft)=1476.8

SI (ft.)=73-78

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	31.61	1445.19	09/13/89	32.66	1444.14
10/15/87	31.15	1445.65	10/11/89	32.85	1443.95
11/10/87	31.27	1445.53	12/19/89	32.11	1444.69
12/09/87	31.48	1445.32			
			02/07/90	31.08	1445.72
05/06/88	31.61	1445.19	04/17/90	32.30	1444.50
06/03/88	31.84	1444.96	05/15/90	32.68	1444.12
07/07/88	32.00	1444.80	06/14/90	32.80	1444.00
08/03/88	32.13	1444.67	07/10/90	32.79	1444.01
09/06/88	32.15	1444.65	07/11/90	32.79	1444.01
10/11/88	32.18	1444.62	08/10/90	32.86	1443.94
11/08/88	32.21	1444.59	09/06/90	32.94	1443.86
			10/02/90	32.83	1443.97
04/19/89	31.93	1444.87	10/31/90	32.92	1443.88
05/11/89	32.27	1444.53	11/28/90	32.81	1443.99
06/16/89	32.47	1444.33			
07/12/89	32.61	1444.19	04/17/91	32.64	1444.16
08/08/89	32.62	1444.18			

**155-065-36CAB3**Unnamed

LS Elev (msl, ft)=1476.6

SI (ft.)=46-51

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/30/87	30.98	1445.62	09/13/89	32.03	1444.57
10/15/87	30.50	1446.10	10/11/89	32.22	1444.38
11/10/87	30.64	1445.96	12/19/89	31.44	1445.16
12/09/87	30.87	1445.73			
			02/07/90	30.42	1446.18
05/06/88	30.97	1445.63	04/17/90	31.66	1444.94
06/03/88	31.14	1445.46	05/15/90	32.03	1444.57
07/07/88	31.36	1445.24	06/14/90	32.16	1444.44
08/03/88	31.53	1445.07	07/10/90	32.17	1444.43
09/06/88	31.51	1445.09	07/11/90	32.17	1444.43
10/11/88	31.54	1445.06	08/10/90	32.23	1444.37
11/08/88	31.59	1445.01	09/06/90	32.33	1444.27
			10/02/90	32.19	1444.41
04/19/89	31.29	1445.31	10/31/90	32.31	1444.29
05/11/89	31.64	1444.96	11/28/90	32.16	1444.44
06/16/89	31.84	1444.76			
07/12/89	31.98	1444.62	04/17/91	31.98	1444.62
08/08/89	32.00	1444.60			

**155-066-04CCC**Spiritwood Aquifer

LS Elev (msl, ft)=1449.95

SI (ft.)=138-141

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/25/74	5.71	1444.24	07/23/86	2.23	1447.72
10/30/74	6.17	1443.78	03/31/87	3.05	1446.90
11/26/74	6.24	1443.71	05/12/87	3.61	1446.34
07/17/86	1.74	1448.21	06/17/87	4.76	1445.19

**155-066-09AAA****Spiritwood Aquifer**

LS Elev (msl,ft)=1447.27

SI (ft.)=118-121

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/25/74	2.66	1444.61	05/06/88	4.16	1443.11
10/30/74	3.02	1444.25	06/03/88	4.24	1443.03
11/26/74	3.16	1444.11	07/07/88	4.50	1442.77
			08/03/88	4.80	1442.47
07/17/86	2.78	1444.49	09/05/88	5.24	1442.03
07/23/86	2.75	1444.52	10/12/88	5.67	1441.60
			11/08/88	5.76	1441.51
03/31/87	2.88	1444.39	12/14/88	5.78	1441.49
05/12/87	2.05	1445.22			
06/17/87	2.14	1445.13	05/11/89	6.23	1441.04
07/15/87	2.27	1445.00	06/16/89	6.10	1441.17
08/11/87	2.52	1444.75	08/08/89	6.32	1440.95
09/10/87	2.80	1444.47	10/10/89	6.80	1440.47
10/16/87	2.98	1444.29	12/19/89	6.85	1440.42
11/10/87	3.16	1444.11			
12/08/87	3.16	1444.11	04/16/90	7.33	1439.94
			06/14/90	7.11	1440.16
01/18/88	3.47	1443.80	09/05/90	7.34	1439.93
03/30/88	3.98	1443.29	10/30/90	7.43	1439.84

**155-066-26CCC2****Spiritwood Aquifer**

LS Elev (msl,ft)=1459.22

SI (ft.)=120-123

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	15.10	1444.12	10/16/87	11.05	1448.17
10/17/73	15.25	1443.97	11/10/87	11.41	1447.81
11/20/73	15.28	1443.94	12/09/87	11.50	1447.72
01/08/74	15.45	1443.77	01/18/88	12.00	1447.22
02/14/74	15.68	1443.54	03/30/88	12.31	1446.91
03/28/74	16.18	1443.04	05/06/88	13.31	1445.91
05/08/74	16.24	1442.98	06/03/88	13.30	1445.92
06/18/74	14.11	1445.11	07/07/88	13.30	1445.92
07/23/74	12.80	1446.42	08/03/88	13.63	1445.59
08/20/74	12.40	1446.82	09/05/88	13.99	1445.23
09/25/74	12.49	1446.73	10/12/88	14.46	1444.76
10/31/74	12.61	1446.61	11/08/88	14.65	1444.57
11/26/74	12.77	1446.45	12/15/88	14.99	1444.23
12/31/74	12.97	1446.25			
			05/11/89	16.01	1443.21
07/17/86	11.12	1448.10	06/16/89	15.63	1443.59
07/24/86	11.07	1448.15	08/08/89	15.45	1443.77
			10/11/89	15.64	1443.58
03/31/87	11.45	1447.77	12/19/89	16.29	1442.93
05/12/87	10.24	1448.98			
06/17/87	10.07	1449.15	04/16/90	17.46	1441.76
07/15/87	10.35	1448.87	06/14/90	17.51	1441.71
08/11/87	10.54	1448.68	09/05/90	16.68	1442.54
09/09/87	10.75	1448.47	10/30/90	16.71	1442.51

**155-066-33BBC**Till

LS Elev (msl,ft)=1476.03

SI (ft.)=29-34

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/01/86	12.60	1463.43	05/06/88	16.84	1459.19
10/15/86	13.29	1462.74	06/03/88	16.99	1459.04
10/22/86	13.77	1462.26	07/07/88	17.04	1458.99
10/23/86	20.95	1455.08	08/03/88	17.19	1458.84
10/28/86	14.57	1461.46	09/05/88	17.43	1458.60
10/29/86	22.58	1453.45	10/12/88	17.75	1458.28
			11/08/88	17.78	1458.25
01/08/87	13.36	1462.67	12/15/88	18.12	1457.91
03/31/87	13.71	1462.32			
05/12/87	12.41	1463.62	05/11/89	19.23	1456.80
06/17/87	12.55	1463.48	06/16/89	18.81	1457.22
07/15/87	12.79	1463.24	08/08/89	18.79	1457.24
08/11/87	12.90	1463.13	10/11/89	18.82	1457.21
09/09/87	13.17	1462.86	12/19/89	19.42	1456.61
10/16/87	13.50	1462.53			
11/10/87	13.81	1462.22	04/16/90	21.26	1454.77
12/09/87	13.99	1462.04	06/14/90	21.67	1454.36
			09/05/90	20.99	1455.04
01/18/88	14.63	1461.40	10/30/90	20.57	1455.46
03/30/88	16.23	1459.80			

**155-066-34CCC**Spiritwood Aquifer

LS Elev (msl,ft)=1461.41

SI (ft.)=118-121

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/25/74	17.21	1444.20	05/06/88	16.99	1444.42
10/31/74	17.24	1444.17	06/03/88	16.93	1444.48
11/26/74	17.19	1444.22	07/07/88	17.15	1444.26
			08/03/88	17.59	1443.82
07/17/86	15.77	1445.64	09/05/88	18.07	1443.34
07/24/86	15.68	1445.73	10/12/88	18.42	1442.99
			11/08/88	18.57	1442.84
03/31/87	15.76	1445.65	12/15/88	18.80	1442.61
05/12/87	15.08	1446.33			
06/17/87	14.90	1446.51	05/11/89	19.34	1442.07
07/15/87	15.06	1446.35	06/16/89	18.96	1442.45
08/11/87	15.16	1446.25	08/08/89	19.05	1442.36
09/09/87	15.25	1446.16	10/11/89	19.45	1441.96
10/16/87	15.35	1446.06	12/19/89	19.84	1441.57
11/10/87	15.56	1445.85			
12/09/87	15.59	1445.82	04/16/90	20.82	1440.59
			06/14/90	20.55	1440.86
01/18/88	16.01	1445.40	09/05/90	19.97	1441.44
03/30/88	16.84	1444.57	10/30/90	20.17	1441.24

**155-067-07CCC1**Unnamed

LS Elev (msl,ft)=1521.43

SI (ft.)=24-26

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
10/11/67	12.30	1509.13	07/17/86	7.63	1513.80
11/14/67	11.83	1509.60	07/29/86	7.31	1514.12
12/13/67	12.01	1509.42	03/31/87	8.91	1512.52
01/16/68	12.35	1509.08	05/12/87	8.15	1513.28
02/22/68	12.90	1508.53	06/17/87	8.00	1513.43
03/12/68	13.18	1508.25	07/15/87	8.28	1513.15
04/11/68	13.19	1508.24	08/11/87	8.50	1512.93
05/14/68	12.81	1508.62	09/10/87	9.05	1512.38
06/20/68	12.39	1509.04	10/16/87	9.56	1511.87
07/16/68	12.02	1509.41	11/09/87	10.00	1511.43
08/20/68	11.62	1509.81	12/08/87	10.28	1511.15
09/18/68	11.17	1510.26			
10/08/68	11.04	1510.39	01/18/88	10.98	1510.45
11/13/68	10.96	1510.47	03/30/88	12.10	1509.33
12/11/68	11.02	1510.41	05/05/88	12.33	1509.10
			06/03/88	12.30	1509.13
01/14/69	11.20	1510.23	07/07/88	12.22	1509.21
04/23/69	12.70	1508.73	08/03/88	12.17	1509.26
05/14/69	12.44	1508.99	09/05/88	12.19	1509.24
06/18/69	12.04	1509.39	10/11/88	12.33	1509.10
07/15/69	11.39	1510.04	11/08/88	12.40	1509.03
08/20/69	10.73	1510.70	12/14/88	12.70	1508.73
09/17/69	10.70	1510.73			
11/18/69	10.65	1510.78	05/11/89	13.26	1508.17
			08/08/89	12.97	1508.46
01/22/70	11.10	1510.33	10/10/89	13.09	1508.34
04/15/70	11.99	1509.44	12/18/89	13.78	1507.65
05/13/70	11.27	1510.16			
09/09/70	8.55	1512.88	04/16/90	15.35	1506.08
10/06/70	8.42	1513.01	06/14/90	15.39	1506.04
11/12/70	8.78	1512.65	09/05/90	15.09	1506.34
12/01/70	8.81	1512.62	10/30/90	14.87	1506.56

**156-065-22DDD**Unnamed

LS Elev (msl,ft)=1451.88

SI (ft.)=57-60

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	9.13	1442.75	12/08/87	5.05	1446.83
10/17/73	7.98	1443.90	01/18/88	4.99	1446.89
11/20/73	7.43	1444.45	03/30/88	5.27	1446.61
05/08/74	6.93	1444.95	05/06/88	5.29	1446.59
06/18/74	6.26	1445.62	06/03/88	5.33	1446.55
07/23/74	6.22	1445.66	07/07/88	5.57	1446.31
08/16/74	6.50	1445.38	08/03/88	5.91	1445.97
09/24/74	6.53	1445.35	09/05/88	6.09	1445.79
10/30/74	6.40	1445.48	10/12/88	6.29	1445.59
11/26/74	6.33	1445.55	11/08/88	6.33	1445.55
			12/15/88	6.26	1445.62
07/17/86	5.32	1446.56			
07/23/86	5.32	1446.56	05/11/89	6.56	1445.32
			08/08/89	6.73	1445.15
03/31/87	5.37	1446.51	10/10/89	7.05	1444.83
05/12/87	4.57	1447.31	12/19/89	7.20	1444.68
06/17/87	5.35	1446.53			
07/15/87	5.28	1446.60	04/16/90	7.73	1444.15
08/11/87	5.30	1446.58	06/14/90	7.87	1444.01
09/10/87	5.33	1446.55	09/05/90	8.43	1443.45
10/16/87	5.27	1446.61	10/30/90	8.58	1443.30
11/10/87	5.22	1446.66			

**156-066-11DDD**Unnamed

LS Elev (msl,ft)=1449

SI (ft.)=57-60

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	3.84	1445.16	12/08/87	2.07	1446.93
10/17/73	3.59	1445.41	01/18/88	3.20	1445.80
11/20/73	3.63	1445.37	03/30/88	2.93	1446.07
07/23/74	0.78	1448.22	05/06/88	2.82	1446.18
08/21/74	0.56	1448.44	06/03/88	3.01	1445.99
09/25/74	1.40	1447.60	07/07/88	4.18	1444.82
10/30/74	1.52	1447.48	08/03/88	5.40	1443.60
11/26/74	1.97	1447.03	09/05/88	6.11	1442.89
			10/11/88	5.61	1443.39
07/17/86	1.73	1447.27	11/08/88	5.22	1443.78
07/23/86	1.69	1447.31			
			05/11/89	3.63	1445.37
03/31/87	2.18	1446.82	08/08/89	0.79	1448.21
05/12/87	0.08	1448.92	10/10/89	4.19	1444.81
06/17/87	0.92	1448.08	12/19/89	5.18	1443.82
07/15/87	1.40	1447.60			
08/11/87	1.66	1447.34	04/16/90	5.53	1443.47
09/10/87	1.95	1447.05	06/14/90	4.66	1444.34
10/16/87	2.01	1446.99	09/05/90	6.56	1442.44
11/10/87	2.07	1446.93	10/30/90	6.26	1442.74

**156-066-31DDD**Spiritwood Aquifer

LS Elev (msl,ft)=1446.68

SI (ft.)=100-103

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
09/11/73	8.39	1438.29	11/10/87	5.91	1440.77
10/17/73	7.65	1439.03	12/08/87	5.87	1440.81
11/20/73	7.63	1439.05			
			01/18/88	6.61	1440.07
01/08/74	8.20	1438.48	03/30/88	5.98	1440.70
02/14/74	8.57	1438.11	05/06/88	6.00	1440.68
03/28/74	7.92	1438.76	06/03/88	6.57	1440.11
05/08/74	3.30	1443.38	07/07/88	7.46	1439.22
07/23/74	2.00	1444.68	08/03/88	8.28	1438.40
08/21/74	3.64	1443.04	09/05/88	9.04	1437.64
09/25/74	4.66	1442.02	10/12/88	8.97	1437.71
10/30/74	5.18	1441.50	11/08/88	8.58	1438.10
11/26/74	5.31	1441.37	12/14/88	8.75	1437.93
12/31/74	5.66	1441.02			
			05/11/89	7.02	1439.66
07/17/86	5.04	1441.64	06/16/89	7.52	1439.16
07/23/86	5.00	1441.68	08/08/89	9.11	1437.57
			10/10/89	9.62	1437.06
03/31/87	4.52	1442.16	12/19/89	9.73	1436.95
05/12/87	3.52	1443.16			
06/17/87	4.50	1442.18	04/16/90	8.60	1438.08
07/15/87	5.02	1441.66	06/14/90	7.92	1438.76
08/11/87	5.55	1441.13	09/05/90	9.69	1436.99
09/10/87	5.89	1440.79	10/30/90	9.65	1437.03
10/16/87	5.89	1440.79			

156-067-17DDD

Unnamed

LS Elev (msl, ft) = 1488.22

SI (ft.) = 77-80

Date	Depth to Water (ft)	WL Elev (msl, ft)	Date	Depth to Water (ft)	WL Elev (msl, ft)
08/20/68	38.14	1450.08	10/16/87	31.83	1456.39
09/10/68	38.29	1449.93	11/09/87	32.14	1456.08
09/18/68	38.22	1450.00	12/08/87	31.92	1456.30
10/08/68	38.28	1449.94			
11/13/68	38.05	1450.17	01/18/88	32.38	1455.84
12/11/68	38.04	1450.18	03/30/88	33.04	1455.18
			05/06/88	33.47	1454.75
01/15/69	38.29	1449.93	06/03/88	33.61	1454.61
04/23/69	38.54	1449.68	07/07/88	33.72	1454.50
05/14/69	38.37	1449.85	08/03/88	33.95	1454.27
06/18/69	38.22	1450.00	09/05/88	34.30	1453.92
07/15/69	38.24	1449.98	10/11/88	34.73	1453.49
09/17/69	38.19	1450.03	11/08/88	34.74	1453.48
11/18/69	37.90	1450.32	12/14/88	34.63	1453.59
01/22/70	37.42	1450.80	05/11/89	35.87	1452.35
			08/08/89	36.15	1452.07
07/17/86	32.89	1455.33	10/10/89	36.30	1451.92
			12/18/89	36.78	1451.44
03/31/87	31.85	1456.37			
05/12/87	31.60	1456.62	04/16/90	37.49	1450.73
06/17/87	31.43	1456.79	06/14/90	37.79	1450.43
07/15/87	31.47	1456.75	09/05/90	38.17	1450.05
08/11/87	31.44	1456.78	10/30/90	38.39	1449.83
09/10/87	31.63	1456.59			

**Table 3. Chemical analyses of ground water  
and surface water from the study area**

Explanation of abbreviations, codes, and units:

Location	- Township, range, section, and quarter(s) identifier
Well Depth	- Depth of the bottom of the lowest screen; 'S' indicates a surface water sample, and the number (if any) indicates the depth below the surface of the water at which the sample was taken
Date Sampled	- Date the sample was gathered in the field
SIO <sub>2</sub>	- Dissolved silica in milligrams per liter
Fe	- Dissolved iron in milligrams per liter
Mn	- Dissolved manganese in milligrams per liter
Ca	- Dissolved calcium in milligrams per liter
Mg	- Dissolved magnesium in milligrams per liter
Na-	- Dissolved sodium in milligrams per liter
K	- Dissolved potassium in milligrams per liter
HCO <sub>3</sub>	- Dissolved bicarbonate in milligrams per liter
CO <sub>3</sub>	- Dissolved carbonate in milligrams per liter
SO <sub>4</sub>	- Dissolved sulfate in milligrams per liter
Cl	- Dissolved chloride in milligrams per liter
F	- Dissolved fluoride in milligrams per liter
NO <sub>3</sub>	- Dissolved nitrate in milligrams per liter
B	- Dissolved boron in milligrams per liter
TDS	- Total dissolved solids (residue) in milligrams per liter
Hardness: as CaCO <sub>3</sub>	- As calcium carbonate (CaCO <sub>3</sub> ) hardness in milligrams per liter
as NCH	- As noncarbonate hardness in milligrams per liter
% Na	- Percent sodium of total cations (milliequivalents per liter)
SAR	- Sodium adsorption ratio
Spec Cond	- Field measurement of specific conductance in micromhos per centimeter corrected to 25 degrees centigrade
Temp	- Field measurement of water temperature in degrees centigrade
pH	- Field measurement of pH

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)													Hardness CaCO <sub>3</sub>	as NCH	% Na	SAR	Spec Cond (μmho)	Temp (°C)	pH
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>	B							
150-061-05DDD	167-170	07/16/86	28	0.03	0.54	67	17	150	9.9	400	0	190	18	0.3	0	0.65	678	0	57	4.2	1160	8
150-061-05DDD	167-170	06/24/87	29	0.03	0.61	64	17	140	11	413	0	180	21	0.3	7.4	0.46	674	0	56	4	1100	10
150-061-06BBB	197-203	07/29/69	32	0.72	0.02	40	16	61	4.7	327	0	26	5.2	0.2	1	0.22	348	0	44	2.1		
150-061-06BBB	197-203	07/16/86	32	0.46	0.14	36	15	67	5.7	318	0	23	4.1	0.2	5	0.28	346	0	48	2.4	560	8
150-061-06BBB	197-203	06/24/87	31	0.78	0.13	35	15	66	5.8	315	0	23	8.7	0.3	6.7	0.27	348	0	48	2.3	570	8
150-061-06CCC	0-0	08/01/84	31	0.38	0.09	26	9.5	92	5.1	322	0	26	11	0.3	1	0.34	361	0	64	4	650	8
150-061-06CCC	0-0	07/16/86	33	0.38	0.1	26	10	95	5.7	323	0	22	8.2	0.3	0.7	0.38	361	0	65	3.9	610	8
150-061-06CCC	0-0	06/24/87	32	0.36	0.09	25	9.5	91	5.8	319	0	24	13	0.3	4.5	0.32	363	0	64	4	620	8
150-061-06CCC2	198-203	11/09/83	30	0.45	0.13	26	9.5	89	6.7	301	0	26	8.6	0.4	6.1	0.31	351	0	63	3.9	425	8
150-061-06CCC2	198-203	06/21/88	31	0.24	0.09	24	9.5	94	5.7	334	0	26	12	0.2	3.3	0.44	371	0	66	4.1	616	9
150-061-10CCC	57-60	08/07/69	30	1.6	0.02	324	124	120	15	133	0	1380	9.6	0.1	1	0.49	2070	1210	16	1.4		6.1
150-061-19BBB	175-181	06/04/70	31	4.1	0.08	69	20	170	7.4	409	0	196	72	0.4	0.8	0	772	0	58	4.6		
150-061-19BBB	175-181	06/21/88	30	0.61	0.1	60	26	170	10	393	0	190	80	0.2	8.7	0.56	770	0	58	4.6	1306	9
150-061-28AAA	157-160	08/06/69	30	5	0.01	112	37	154	8.2	450	0	357	36	0.1	0	0.6	962	62	43	3.2		7.8
150-061-30ABB	237-240	06/19/68	30	1	0.06	75	19	259	9.2	458	0	332	77	0.5	7.3	0.83	1040	0	67	6.9		10
150-061-30ABB	237-240	08/01/73	28	0.06	0.12	61	29	260	8	456	0	340	78	0.4	6.8	0.39	1040	0	67	6.9		8.5
150-061-30ABB	237-240	07/16/86	32	0.42	0.09	62	26	250	10	456	0	330	73	0.2	0.3	0.66	1010	0	66	6.8	1600	8
150-061-30ABB	237-240	06/24/87	28	0.47	0.08	54	25	250	11	445	0	320	76	0.2	11	0.46	995	0	68	7	1650	9
150-062-03DDD	168-173	11/09/83	31	1.6	0.21	82	21	7.8	3.8	346	0	9.1	0.3	0.2	6.4	0.05	333	8	5	0.2	130	8
150-062-03DDD	168-173	06/24/87	31	1.8	0.16	79	21	8	3.5	361	0	5.4	3.2	0.2	3.6	0.05	335	0	6	0.2	580	8
150-062-04BBA	27-42	08/06/80	31	1	0.47	58	16	2	0.5	253	0	6.6	2.3	0.2	1.6	0.14	245	3	2	0.1	400	9
150-062-04BBA	27-42	07/31/84	28	0.64	0.42	66	17	2.5	1.1	272	0	12	0	0.2	1	0.01	263	12	2	0.1	470	10
150-062-06BBC	123-126	07/14/78	23	0.36	0.36	59	18	42	3.9	365	0	3.7	4.8	0.1	1	0.24	336	0	29	1.2		
150-062-06BBC	123-126	09/25/86	17	0.13	0.3	55	18	40	5.6	362	0	0	5.8	0.1	1	0.13	321	0	29	1.2		
150-062-10DDD	168-173	11/09/83	31	1	0.1	50	16	35	6.1	304	0	16	4.3	0.2	6.4	0.14	316	0	28	1.1	485	9
150-062-10DDD	168-173	06/24/87	32	0.94	0.09	49	16	36	5.6	307	0	14	6.2	0.2	6.6	0.12	318	0	29	1.1	550	8
150-062-12BBB	218-223	11/10/83	34	0.26	0.1	32	12	90	7	357	0	20	8.6	0.2	5.9	0.14	386	0	59	3.4	610	8
150-062-12CCCB	198-203	11/16/83	35	0.5	0.07	30	10	83	6.9	321	0	21	7.1	0.1	3.7	0.16	356	c	59	3.3	570	7
150-062-12CCCB	198-203	06/24/87	32	0.58	0.06	28	11	82	6	321	0	21	11	0.2	5	0.17	355	0	59	3.3	590	8
150-062-16AAA	152-155	07/13/78	26	0.04	0.36	55	15	29	4.5	318	0	2.1	2.6	0.1	1	0.2	293	0	23	0.9	490	14
150-062-16BBB	0-0	09/23/86	31	0.44	0.82	66	16	8	2.4	270	4	17	1.7	0.2	1	0.03	282	3	7	0.2	458	7.5
150-062-24CBB	158-163	11/09/83	28	0.16	0.1	33	12	100	7.5	364	0	45	4.9	0.4	7.7	0.4	418	0	61	3.8	632	8
150-062-24CBB	158-163	06/24/87	32	0.13	0.1	32	12	100	6.7	371	0	43	7.1	0.2	4.6	0.38	421	0	61	3.8	720	8
150-063-13BBB	0-17	06/24/87	18	0.03	0.06	60	59	7	1.4	428	0	81	4.3	0.2	44	0.04	486	42	4	0.2	870	12

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)													Hardness CaCO <sub>3</sub>	as NCH	‰ Na	SAR	Spec Cond (µmho)	Temp (°C)	pH
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>	B						
151-061-07CCC	178-183	11/10/83	26	0.89	0.89	140	38	11	5.2	373	0	160	5	0.3	3.8	0.05	575	200	4	0.2	930	6
151-061-07CCC	178-183	07/31/84	27	1.3	0.8	140	39	12	4.8	432	0	170	5.4	0.3	1	0.04	614	160	5	0.2	1060	7
151-061-07CCC	178-183	07/16/86	29	1.3	0.73	140	36	12	4.9	423	0	160	4.7	0.2	1	0.03	598	150	5	0.2	910	8
151-061-19DCC	0-0	07/11/68	27	4	0.35	65	17	45	4.8	332	0	59	8	0.2	3	0.34	397	0	29	1.3		12.8
151-061-22CCD	97-100	07/29/69	16	1.1	0.01	54	21	247	5.1	472	15	233	58	0.3	0	0.67	884	0	70	7.2		
151-061-30AAA	218-223	11/10/83	29	1.5	0.65	95	38	56	8.3	376	0	180	7	0.2	11	0.21	612	86	23	1.2	955	7
151-061-30AAA	218-223	08/01/84	31	1.8	0.63	96	38	60	6.8	386	0	180	11	0.2	0.1	0.23	616	80	24	1.3	1080	7
151-061-30AAA	218-223	07/16/86	33	1.9	0.6	96	36	59	7.3	386	0	180	6.6	0.2	0	0.21	611	71	24	1.3	920	8
151-061-30BBB	197-200	06/28/68	28	0.36	0.3	43	12	106	5.2	356	0	88	13	0.3	0.6	0.29	472	0	58	3.7		6.1
151-061-30BBB	197-200	07/16/86	29	0.26	0.22	33	12	62	5.5	235	0	54	5	0.3	4.3	0.27	322	0	49	2.4	480	8
151-061-30BBB	197-200	06/24/87	27	0.8	0.31	44	17	84	6.8	323	0	72	13	0.2	6.4	0.31	431	0	49	2.7	730	7
151-061-32BBB	168-173	11/10/83	28	0.62	0.12	31	12	190	8.8	452	0	81	55	0.5	10	0.49	641	0	75	7.2	1050	6
151-061-32BBB	168-173	07/16/86	33	0.58	0.11	31	12	190	7.4	462	0	85	54	0.4	0.1	0.63	642	0	75	7.2	930	8
151-061-32BBB	168-173	06/24/87	29	0.58	0.12	30	11	190	8.2	456	0	83	57	0.3	7.2	0.64	642	0	76	7.5	1080	7
151-061-36ABB	0-0	06/28/68	25	1.7	0.06	141	39	12	5.4	423	0	171	3.9	0.2	0	0	607	166	5	0.2		9
151-062-03DDD1	62-65	10/02/73	25	0	1.2	80	29	12	4.9	350	0	53	4.4	0.4	1	0.04	383	33	7	0.3		6.5
151-062-03DDD1	62-65	09/25/86	26	0.02	0.58	64	26	11	5.2	302	0	40	3.6	0.3	0.2	0.06	326	19	8	0.3		
151-062-03DDD2	260-263	07/14/78	27	0.75	0.36	90	18	11	3.3	331	0	61	2.2	0.1	1	0	378	28	7	0.3	620	13
151-062-03DDD2	260-263	09/25/86	31	0.98	0.33	91	21	11	4	328	0	65	2.8	0.1	1	0.05	390	45	7	0.3		
151-062-09ABB	197-203	09/28/73	22	1.2	0.36	63	18	65	5.2	389	0	49	12	0.5	3.4	0.69	432	37	1.9			7
151-062-09ABB	197-203	09/26/86	31	1.9	0.25	59	19	64	7.3	376	0	42	6.9	0.2	1	0.16	418	0	37	1.8		
151-062-12CCC	235-238	09/25/86	29	0.92	0.77	100.0	28	11	4.5	358.0	0	99.0	4.5	0.2	1.0	0.04	455	71	6	0.3		
151-062-13BCD	192-195	10/15/79	30	0.06	0.54	60	39	12	3.2	173	0	59	2.6	0.3	0.4	0.03	292	170	8	0.3	605	9
151-062-13BCD	192-195	10/16/79	32	0.04	0.54	64	36	13	2.9	324	0	71	5.1	0.2	0.3	0.23	385	44	8	0.3	610	9
151-062-13BCD	192-195	10/17/79	31	0.26	0.48	63	37	13	3	290	0	73	4.9	0.2	0.3	0.16	369	72	8	0.3	630	8
151-062-13BCD	192-195	10/18/79	31	0.26	0.52	55	42	13	3	324	0	71	4.4	0.2	2	0.03	382	44	8	0.3	625	10.0
151-062-13BCD	192-195	10/19/79	31	0.22	0.54	51	44.0	14	3.1	324	0	74	4.2	0.2	1.8	0.16	384	44	9	0.3	630	8
151-062-13CBA	0-0	07/31/84	31	1.2	0.5	84	20	15	3.6	314	0	69	1.1	0.2	1.0	0.05	382	35	10	0.4	640	11
151-062-13CBA	0-0	06/24/88	30	1.1	0.43	80	18	14	3.5	317	0	61	5.3	0.1	1.0	0.22	371	14	10	0.4	626	10.0
151-062-13CBB	238-241	09/25/86	33	2	0.45	79	17	8	3.1	281	0	59	3.4	0.1	1.0	0.02	344	37	6	0.2		
151-062-13DCC	0-0	07/31/84	32	0.76	0.5	65	16	21	3.6	291	0	42	2.4	0.2	1.0	0.06	328	0	16	0.6	570	10.0
151-062-13DCC	0-0	06/24/88	34	0.98	0.48	67	16	21	3.9	299	0	47	6	0.2	1.0	0.18	345	0	16	0.6	567	9
151-062-14AAA	218-224	09/11/69	32	6.6	0.03	117	18	10.0	3.3	361.0	0	77	2.1	0.1	0	0.04	444	70	6	0.2		7
151-062-14AAA	218-224	06/18/74	21	0.49	0.92	96.0	24	10.0	3.4	359.0	0	80	1.1	0.2	1.0	0.69	416	46	6	0.2		7
151-062-14AAA	218-224	09/25/86	32	1.5	0.72	110	28	11	4.2	371.0	0	98.0	3.6	0.1	1.0	0.04	473	86	6	0.2		
151-062-14D	0-0	08/07/80	26	1.4	0.23	40	19	65	2.9	332	0	30	8.9	0.3	1.0	0.21	359	0	44	2.1	640	9
151-062-14D	0-0	07/31/84	32	0.93	0.13	44.0	18	60	4.7	324	0	44.0	6.7	0.3	1.0	0.28	372	0	41	1.9	630	10.0
151-062-14D	0-0	06/29/88	31	0.83	0.15	44.0	18	59	4.6	322	0	43.0	9.4	0.3	2.6	0.42	372	0	40	1.9	612	11
151-062-15AAA	197-203	09/25/86	29	0.39	0.52	62	15	45.0	6.6	323	0	45.0	5.7	0.2	1.0	0.23	370	0	30	1.3		
151-062-15BBB	198-204	09/11/69	31	0.58	0.02	64	12	80	4.1	386.0	0	48	11	0.1	0	0.26	441	0	45	2.4		7
151-062-15CCC	18-21	09/26/86	24	0.03	0.39	70	23	6	2.8	266	0	50	5	0.2	6	0.06	318	51	5	0.2		
151-062-17A	175-197	07/08/80	31	0.02	0.14	35	13	60	3.3	296	0	22	4.9	0.2	1.1	0.27	317	0	48	2.2	560	10.0
151-062-19AAA	133-138	08/07/79	30	0.67	0.04	38	18	32	6.3	275	0	22	1.5	0.2	1.0	0.47	285	0	28	1.1	470	14
151-062-19AAA	133-138	09/30/86	30	0.92	0.04	37	19	31	7.3	265	0	17	2.4	0.2	1.0	0.42	277	0	27	1.0	450	8
151-062-19ABB	30-33	07/14/78	23	1.9	0.54	57	14	30	3	248	0	63	2.8	0.2	1.0	0.15	319	0	24	0.9	540	15
151-062-19ABB	30-33	09/30/86	28	0.33	0.54	64	18	9.5	2.5	229	0	58	3.2	0.1	1.0	0.04	298	46	8	0.3	480	8
151-062-19ADD	28-30	10/20/67	24	0.24	0	80	20	27	4.5	254	0	119	6.1	0.7	1.0	0.49	408	75	17	0.7	500	6.7
151-062-19ADD	28-30	04/18/68	27	0	0.29	65	17	14	2.7	228	0	65	4.1	5.4	0	0	312	45	11	0.4	410	7
151-062-19ADD	28-30	05/01/68	28	0.05	0.22	62	16	13	2.7	230	0	63	3.9	0.3	0	0	302	32	11	0.4	420	6.7
151-062-19ADD	28-30	09/30/86	28	0.45	0.41	61	19	17	3.1	229	0	71	6.6	0.1	1.0	0.06	321	43	14	0.5	510	8
151-062-19DDA	40-45	09/30/86	29	0.54	0.35	60	18	10.0	2.6	232	0	51	4	0.1	0	0.05	290	34	9	0.3	480	8
151-062-20AAC	101-131	08/13/80	29	0.17	0.73	63	18	4.8	1.4	239	0	42	2.1	0.2	1.0	0.06	280	34	4	0.1	640	7
151-062-20ABB	148-151	07/13/78	24	0.32	1.1	70	11	4.6	2.4	263	0	14	1.2	0.1	1.0	0.15	260	5	4	0.1	430	14
151-062-20ABB	148-151	09/26/86	28	0.34	0.79	62	11	5.5	2.6	233	0	15	2.6	0.1	1.0	0.						

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)													Hardness CaCO <sub>3</sub>	as NCH	% Na	SAR	Spec Cond (μmho)	Temp (°C)	pH
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>							
151-062-21ACB	0-0	06/24/88	30	0.12	0.03	39	13	140	7.8	368.0	0	120	37	0.2	1.0	0.48	570	0	65	5	902	9
151-062-21BA	160-166	06/18/74	22	1.5	0.18	84	29	170	8	414.0	0	340	22	0.2	1.0	2.1	884	0	52	4.1		7
151-062-21BA	160-166	09/26/86	31	3.4	0.16	95.0	29	190	12	411.0	0	390.0	23	0.2	1.0	0.54	977	20	53	4.4		
151-062-22BBB2	171-177	10/17/69	31	0.4	0.01	58	17	91.0	5.3	366.0	0	94.0	4.4	0.1	1.0	0.3	483	0	47	2.7	780	6.1
151-062-22BBB2	171-177	09/26/86	32	1.2	0.15	46.0	17	100.0	8	376.0	0	91.0	7.9	0.2	1.0	0.28	490	0	53	3.2		
151-062-23AAC	227-252	07/31/84	31	0.58	0.12	33	13	120	6	382.0	0	55	18	0.3	1.0	0.44	466	0	65	4.4	790	11
151-062-23AAC	227-252	07/25/88	31	0.11	0.1	31	13	120	6.8	363.0	0	53	19	0.3	0.2	0.53	454	0	65	4.6	729	13
151-062-23ABB	228-231	07/06/78	28	0.24	0.16	35	13	110	5	372.0	0	46.0	27	0.2	1.0	0.49	449	0	62	4	700	21
151-062-23ABB	228-231	09/25/86	28	0.57	0.21	32	12	100.0	13	360.0	0	37	26	0.2	1.0	0.49	427	0	60	3.8		
151-062-24AAA	197-203	09/25/86	34	2.1	0.49	61	16	14	3.4	272	0	24	4.1	0.2	1.0	0.04	294	0	12	0.4		
151-062-24CCC	258-261	07/14/78	27	0.12	0.1	23	8.2	150	4.6	387.0	0	52	36	0.3	1.0	0.49	494	0	77	6.8	930	14
151-062-24CCC	258-261	09/25/86	30	0.51	0.09	23	9	160	7.3	389.0	0	49	63	0.3	1.0	0.55	536	0	77	7.1		
151-062-25ACD	220-250	08/01/84	31	0.46	0.15	29	11	140	5.4	379.0	0	54	22	0.4	0.1	0.5	481	0	71	5.6	820	11
151-062-25ACD	220-250	06/21/88	30	0.48	0.14	29	11	130	6.2	389.0	0	61	23	0.3	4	0.56	488	0	69	5.2	894	8
151-062-27AAA2	198-204	09/11/69	31	0.58	0.01	63	18	46.0	5.1	358.0	0	25	6.8	0.1	1.0	0.15	373	0	30	1.3		
151-062-27AAA2	198-204	09/25/86	29	0.82	0.11	53	22	49	7	357.0	0	23	8.5	0.1	0	0.27	369	0	32	1.4		
151-062-27AAA2	198-204	06/24/88	36	0.89	0.12	53	21	46.0	6.5	353.0	0	26	13	0.2	0.3	0.1	377	0	31	1.3	673	8
151-062-27ABC	165-187	07/14/77	20	1.1	0.88	76	19	60	5.1	472	0	21	5.5	0	1.0	0.63	443	0	32	1.6	820	9
151-062-27ABC	165-187	07/31/84	31	0.92	0.59	72	19	64	6.2	413.0	0	45.0	12	0.2	1.0	0.17	455	0	34	1.7	780	13
151-062-27ABC	165-187	06/29/88	30	1.2	0.57	69	19	67	6.1	413.0	0	43.0	16	0.2	0.7	0.32	456	0	36	1.8	750	9
151-062-27BAD	157-187	08/07/80	31	0.01	0.77	79	25	47	3.5	464	0	25	7.9	0.2	0.2	0	449	0	25	1.2	770	8
151-062-27DDA	188-193	11/10/83	27	0.66	0.19	47	18	78	8.2	357.0	0	45.0	10.0	0.2	8.3	0.16	419	0	46	2.5	780	7
151-062-27DDA	188-193	08/01/84	30	0.46	0.15	47	17	85	6.2	365.0	0	42	12	0.2	0.3	0.14	420	0	49	2.7		
151-062-27DDA	188-193	06/24/87	30	0.65	0.13	45.0	17	79	6.8	360.0	0	43.0	13	0.1	5.9	0.14	418	0	47	2.6	710	7
151-062-33CDB	58-83	08/13/80	32	2.1	0.75	66	18	3.1	0.8	294	0	10.0	1.6	0.1	1.0	0	280	0	3	0.1	600	8
151-062-33DBB	33-58	08/13/80	29	0.02	0.59	66	18	1.8	0.8	279	0	18	1.6	0.1	1.0	0.15	274	12	2	0.1	610	9
151-062-34DDD	167-170	10/19/67	29	0.3		60	11	46.0	5.5	329	0	17	4.1	0.6	3	0.1	339	0	33	1.4	480	7.2
151-062-34DDD	167-170	09/25/86	28	0.5	0.36	47	27	43.0	7.7	327	0	8.2	5.4	0.1	1.0	0.2	329	1	28	1.2		
151-062-36AAA	198-203	11/10/83	29	0.09	0.14	27	10.0	92.0	6.4	311	0	28	12	0.3	4.2	0.36	362	0	63	3.8	590	6
151-062-36AAA	198-203	06/24/87	26	0.1	0.68	27	10.0	91.0	6.2	326	0	26	14	0.2	5	0.38	368	0	63	3.8	620	7
151-062-36CCC	197-203	09/10/69	31	2.3	0.02	74	20	31	4.8	381.0	0	10.0	2.7	0.1	1.0	0.11	365	0	20	0.8		7
151-062-36CCC	197-203	09/25/86	29	1.8	0.14	62	24	29	5.8	369.0	0	8.6	2.8	0.1	1.0	0.11	346	0	19	0.8		
151-063-16DA	20-25	08/29/68	29	1.3	0.56	100.0	23	11	1.2	349.0	0	84	3.7	0.1	0.05		425	59	6	0.3	550	7.2
151-063-20DC	37-40	10/01/86	27	0.07	0.61	61	18	7	2.3	225	0	47	2.1	0.1	1.0	0.06	277	42	6	0.2	440	8
151-063-20DC	33-36	07/06/78	21	0.16	1.5	61	21	10.0	2.9	251	0	54	2.4	0.1	1.0	0.24	299	35	8	0.3	500	17
151-063-20DDC	33-36	07/07/88	26	0.37	0.55	67	20	5.5	2.5	238	0	70	6.9	0.1	1.0	0.08	317	55	5	0.2	638	10.0
151-063-20DDC	23-26	07/31/84	28	0.03	0.52	48	13	30	3.9	261	0	22	1.8	0.2	1.0	0.1	278	0	27	1.0	470	14
151-063-20DDC	23-26	06/25/87	29	0.04	0.54	48	14	28	4.2	260	0	25	5.4	0.2	3	0.09	285	0	25	0.9	470	9
151-063-20DD2	61-64	07/07/78	23	0.18	1.5	65	17	21	5	326	0	15	3.4	0.1	1.0	0.2	313	0	16	0.6	520	14
151-063-22CBB	50-53	07/14/78	24	0.2	0.72	66	16	3.5	294	0	26	4.8	0.1	1.0	0	303	0	13	0.5	500	12	
151-063-22CBB	50-53	10/01/86	29	1.0	0.61	64	17	17	4	266	0	46.0	4.6	0.2	1.0	0.07	315	12	14	0.5	500	8
151-063-22CBB	50-53	06/29/88	27	0.86	0.59	65	18	17	3.7	297	0	45.0	7.3	0.2	1.0	0.23	332	0	13	0.5	564	8
151-063-25A	0-0	07/14/77	19	1.2	0.64	62	16	12	3.4	255	0	21	2.1	0	1.5	0.56	255	11	3	0.1	460	9
151-063-25A	0-0	06/24/88	31	0.18	0.51	63	17	9	2	239	0	47	4.5	0.1	1.4	0.17	294	31	8	0.3	489	8
151-063-25AAB	92-95	06/25/68	26	0	0.76	66	13	12	3	288	0	12	2.9	0.2	0	0	277	0	11	0.4	6.7	
151-063-25AAB	92-95	09/30/86	29	1.3	0.76	61	17	13	2.8	280	0	14	2.6	0.1	0	0.06	280	0	11	0.4	460	8
151-063-25AAB	92-95	06/24/87	28	0.84	0.72	61	16	12	2.9	269	0	22	4.6	0.2	1.8	0.04	283	0	11	0.4	470	8
151-063-25ACB	18-59	06/25/68	25	0.98	0.32	58	12	6.6	2.6	239	0	20	2	0.1	0	0.1	245	0	7	0.2		
151-063-25ADB1	0-41	06/26/68	25	0.72	0.88	86.0	12	6.8	2.2	252	0	71	3.7	0.2	0	0	332	57	5	0.2		
151-063-25ADB1	0-41	06/27/68	24	0.26	0.55	80	17	6.9	1.7	260	0	72	3.3	0.1	0	0.15	333	55	5	0.2		
151-063-25ADB1	0-41	07/09/68	24	0.26	0.55	80	16	6.8	1.3	258	0	67	2.9	0.2	1.0	0.15	327	54	5	0.2		
151-063-25ADB1	0-41	07/10/68	24	0.64	0.25	80	16	6.8	1.3	258	0	67	3.5	0.3	0	0.1	287	15	14	0.5		
151-063-25ADB3	18-64	06/25/68	25	0.07	0.01	69	16	13	1.5	281	0	39	2.7	0.2	0	0.15	305	6	11	0.4		
151-063-25BBB	45-47	10/09/67	28	0.18		72	11	13	3.1	278	0	15	1.8	0.6	1.0	0						

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)														Hardness CaCO <sub>3</sub>	as NCH	‰ Na	SAR	Spec Cond (μmho)	Temp (°C)	pH
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>	B							
151-063-26CBB	14-16	05/07/69	24	4.7	0.73	81	39	33	2.9	490	0	12	2.9	0.2	1.0	0.11	442	0	17	0.8	5.6		
151-063-27CBA	14-15	05/07/69	29	1.4	0.86	74	19	13	4	320	0	19	1.3	0.2	1.0	0.07	320	1	10	0.3	5.6		
151-063-28ADA	38-40	10/09/67	27	0.2		65	14	4.6	2.7	257	0	9.3	1.9	0.7	0	0.05	252	10	4	0.1	7		
151-063-29A	0-0	00/00/61	0.5		99.0	165	23	5	332	0	48	28	3	0.1	1.0	0							
151-063-29AAC2	0-67	07/28/81	26	5.2	0.47	49	16	12	2.7	212	0	43.0	3.3	0.1	1.0	0.46	263	17	12	0.4	390	8	
151-063-29AAC2	0-67	08/03/83	5.8	0.28	0.07	25	13	4.5	4.7	201	0	0.4	5.3	0.1	1.0	0.02	159	0	8	0.2	310	20	
151-063-29ABBB	0-67	09/24/86	28	2.8	0.45	54	17	4	2.1	419.0	0	45.0	1.7	0.1	1.0	0	362	0	4	0.1	420	8.5	
151-063-29ABBB	0-167	08/31/77	22	0.4	1.0	84	19	21	4.1	309	0	69	17	0.1	0	0	390	37	13	0.5	650	11	
151-063-29ABBB	0-167	07/28/78	20	0.02	0.92	72	17	7.3	3.1	272	0	40	3.5	0.1	0.8	0	299	27	6	0.2	510	13	
151-063-29ABBB	0-167	05/18/79	25	0.47	0.96	120	32	83	6.9	448.0	0	160	52	0.1	0.1	0.15	702	63	29	1.7	1120	9	
151-063-29ABBB	0-167	05/07/80	27	0.15	0.75	87.0	23	28	3.1	341	0	70	22	0.1	0.2	0.23	430	30	16	0.7	8		
151-063-29ABBB	0-167	08/06/80	30	0.31	0.75	72	19	15	2	287	0	51	6.3	0.2	0.2	0.14	338	25	11	0.4	580	10.0	
151-063-29ABBB	0-167	04/08/81	29	0.13	1.0	100.0	27	36	4	394.0	0	85	28	0.1	0.3	0.06	505	37	18	0.8	850	6	
151-063-29ABBB	0-167	11/18/81	23	0.42	0.87	86.0	23	47	5.9	355.0	0	72	28	0.2	0.4	0	462	19	24	1.2	720	8	
151-063-29ABBB	0-167	12/09/82	27	0.16	0.73	65	18	29	6.2	312	0	21	4.5	0.2	1.0	0.07	327	0	21	0.8	620	9	
151-063-29ABBB	0-167	06/15/83	26	0.2	0.82	88.0	23	32	6.2	352.0	0	91.0	20	0.2	0.1	0.08	461	26	18	0.8	800	10.0	
151-063-29ABBB	0-167	08/02/84	28	0.03	0.74	78	19	10.0	3.9	301	0	47	4.8	0.2	0.5	0.04	340	26	7	0.3	600	9	
151-063-29ABCD	0-167	11/29/84	26	0.25	0.72	97.0	25	37	6.2	385.0	0	72	28	0.1	1.0	0.05	483	30	19	0.9	650	8	
151-063-29ABCD	0-108	09/21/88	34	0.06	0.63	83	21	54	6.4	391.0	0	74	21	0.1	1.0	0.14	487	0	28	1.4			
151-063-29ABCD	0-108	06/25/68	27	0.07	0.55	64	8.4	47	4.7	312	0	30	12	0.2	2.5	0	350	0	34	1.5			
151-063-29ABCD	0-108	08/31/77	22	0.04	0.72	79	20	47	4.8	339	0	73	28	0.1	0	0	442	2	26	1.2	720	12	
151-063-29ABCD	0-108	05/05/78	37	0.06	0.7	78	18	49	4.9	335	0	77	25	0.1	0.8	0.27	456	0	28	1.3	740		
151-063-29ABCD	0-108	07/28/78	21	0.1	0.72	84	24	42	4.6	348.0	0	88.0	26	0.1	0.7	0.49	463	25	22	1.0	710		
151-063-29ABCD	0-108	05/18/79	22	0.2	0.53	61	17	17	3.2	250	0	46.0	6.9	0.1	0.1	0.03	297	15	14	0.5	460	8	
151-063-29ABCD	0-108	05/07/80	27	0.1	0.62	84	19	52	4.2	363.0	0	84	25	0.1	0.3	0.06	475	0	28	1.3			
151-063-29ABCD	0-108	08/06/80	31	0.1	0.69	75	25	55	3.8	349.0	0	93.0	27	0.2	0.1	0.17	483	0	29	1.4	750	9	
151-063-29ABCD	0-108	04/08/81	29	0.1	0.66	77	21	52	3.8	347.0	0	72	25	0.1	0.3	0.26	452	0	28	1.4	780	6	
151-063-29ABCD	0-108	11/18/81	25	0.12	0.66	74	23	65	6.9	370.0	0	78	30	0.2	0.2	0.17	485	0	33	1.7	735	6	
151-063-29ABCD	0-108	12/09/82	28	0.06	0.61	74	19	50	6.7	348.0	0	71	19	0.1	1.0	0.08	441	0	29	1.4	710	9	
151-063-29ABCD	0-108	06/15/83	27	0.04	0.61	73	19	52	7.1	355.0	0	66	19	0.1	0.1	0.09	439	0	30	1.4	730	11	
151-063-29ABCD	0-108	08/02/84	29	0.06	0.63	83	21	54	6.2	365.0	0	91.0	22	0.1	0.5	0.09	488	0	28	1.4	840	8	
151-063-29ABCD	0-108	11/29/84	30	0.06	0.57	78	20	53	6.6	356.0	0	75	20	0.2	1.0	0.09	460	0	29	1.4	690	7	
151-063-29ABCD	87-0	08/31/77	21	0.14	0.72	59	18	6.7	2.5	251	0	30	3.8	0.1	0	0.05	266	0	31	1.5			
151-063-29ABCD	87-0	05/05/78	36	0.04	0.68	60	17	20	3	308	0	23	6.6	0.2	0.7	0.14	320	15	6	0.2	440	10.0	
151-063-29ABDC	87-0	07/28/78	20	0.16	0.64	60	20	5.6	2.3	243	0	37	1.6	0.1	0.6	0	268	31	5	0.2	450		
151-063-29ABDC	87-0	05/18/79	22	0.18	0.85	61	17	5.9	2.6	242	0	36	3.7	0.1	0.1	0.09	269	22	5	0.2	440	8	
151-063-29ABDC	87-0	05/07/80	27	0.09	0.57	62	18	5.8	1.4	250	0	37	4.3	0.2	0.1	0.1	280	25	5	0.2			
151-063-29ABDC	87-0	08/06/80	30	0.41	0.65	61	19	6.9	1.2	253	0	43.0	3.1	0.2	0.2	0.21	291	23	6	0.2	460	11	
151-063-29ABDC	87-0	08/08/81	26	0.45	0.61	61	14	5.4	1.1	240	0	24	2.9	0.1	0.2	0.06	254	14	5	0.2	470	5	
151-063-29ABDC	87-0	11/18/81	24	0.21	0.67	59	20	16	3.1	257	0	45.0	12	0.2	0.5	0	308	20	13	0.5	420	8	
151-063-29ABDC	87-0	12/09/82	27	0.24	0.63	66	19	6	3.3	249	0	38	2.4	0.2	0.1	0.03	278	3	8	0.3	470	8	
151-063-29ABDC	87-0	08/02/84	28	0.14	0.6	64	19	6.5	2.8	263	0	51	2.4	0.2	0.5	0.02	305	21	5	0.2	460	10.0	
151-063-29ABDC	87-0	11/29/84	27	0.08	0.54	66	19	7	2.9	247	0	52	2.1	0.1	1.0	0.02	300	22	5	0.2	530	9	
151-063-29ABDC	87-0	09/21/88	33	0.04	0.67	75	21	17	3.8	314	0	62	9.5	0.2	1.0	0.08	377	16	12	0.5			
151-063-29ACBD	0-112	08/31/77	24	0.08	0.62	54	14	55	5	334	0	34	10.0	0.1	0.05		362	0	38	1.7	580	12	
151-063-29ACBD	0-112	05/05/78	37	0.12	0.7	61	14	50	5.1	357.0	0	18	10.0	0.2	0.7	0.18	373	0	33	1.5	640		
151-063-29ACBD	0-112	07/28/78	22	0.12	0.6	56	15	49	4.9	342.0	0	26	7.7	0.1	0.5	0.05	350	0	34	1.5	630	15	
151-063-29ACBD	0-112	05/18/79	22	0.06	0.58	58	16	56	5.1	352.0	0	28	11	0.1	0.1	0.12	370	0	36	1.7	620	10.0	
151-063-29ACBD	0-112	05/07/80	28	0.15	0.51	58	16	53	3.9	364.0	0	28	9.9	0.2	0.2	0.13	377	0	35	1.6			
151-063-29ACBD	0-112	08/06/80	30	0.12	0.56	55	15	57	3.7	354.0	0	32	10.0	0.2	0.1	0	378	0	38	1.7	620	8	
151-063-29ACBD	0-112	04/08/81	30	0.14	0.63	60	20	46.0	3.6	352.0	0	20	9.8	0.1	0.2	0.06	364	0	30	1.3	640	7	
151-063-29ACBD	0-112	11/18/81	25	0.15	0.62	59	20	58	6.7	369.0	0	25	18	0.2	0.4	0	395	0	35	1.7	590	7	
151-063-29ACBD	0-112	12/09/82	27	0.13	0.69	63	17	27	6.1	335	0	18	15	0.2	1.0	0.06	340	0	20	0.8	550	8	
151-063-29ACBD	0-112	06/15/83	28	0.12	0.72	72	20	25	6.2	362.0	0	24	7.8	0.2	0.1								

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)													Hardness CaCO <sub>3</sub>	as NCH	% Na	SAR	Spec Cond (μmho)	Temp (°C)	pH
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>							
151-063-35CCC	19-24	08/12/81	22	1.1	0.35	65	19	20	3	298	0	37	0	0.1	1.0	0.37	316	0	15	0.6	483	7.5
151-063-35DCC	33-38	08/29/68	29	0	0.51	63	18	15	2.6	293	0	30	5.1	0.2	0.1	0.1	307	0	12	0.4	350	7.2
151-063-35DCC	33-38	05/07/69	28	1.4	0.62	59	14	16	2.3	247	0	32	4.2	0	0	0	279	1	15	0.5		6.7
151-063-36CCC	19-24	08/29/68	26	0.76	0.59	78	11	1.8	1.2	281	0	15	0.8	0.2	0	0	273	9	2	0.1	350	6.1
151-064-02DAD	28-38	11/07/86	28	0.08	0.03	640	150	43.0	11	414.0	0	1700	110	0.3	25	0.08	2910	1900	4	0.4	3200	8
151-064-04CCC	97-103	09/18/69	32	0.08	0.36	62	9.6	19	5.4	259	0	23	2.2	0.1	0	0.04	281	0	17	0.6	400	6.7
151-064-04CCC	97-103	07/31/86	32	0.13	0.36	55	11	20	6.7	250	0	11	3.7	0.1	0.1	0.08	263	0	19	0.6		
151-064-04CCC3	34-39	11/20/86	27	0.06	0.02	68	36	28	8.3	429.0	0	26	5.3	0.1	1.0	0.06	411	0	16	0.7	690	6
151-064-06CCC2	73-81	11/19/86	40	0.02	0.41	75	18	18	8.9	324	0	32	4.5	0.2	1.0	0.07	358	13	0.5	600	6	
151-064-10AAA	63-66	10/18/67	25	0.48		94.0	18	83	7	457.0	0	94.0	17	0.8	1.0	0.29	566	0	36	2.1	850	7.2
151-064-10AAA	63-66	07/31/86	28	2.3	0.39	72	28	86.0	7.3	432.0	0	80	30	0.2	1.0	0.42	549	0	38	2.2		
151-064-12BAA	12.5-17.5	11/20/86	30	0.03	0.23	16	53	65	20	468	0	27	6.1	0.2	1.0	0.26	450	0	33	1.8	770	8
151-064-15BBC	14-19	11/07/86	29	0.03	0.29	88.0	37	25	7.3	420.0	0	80	3	0.3	0.2	0.08	477	28	13	0.6	760	8
151-064-23DDC	118-121	07/31/86	30	0.66	0.54	70	21	6.5	3.6	294	0	25	1.7	0.1	0.2	0.03	304	20	5	0.2		
151-065-02CDD	12-14	10/03/67	29	3.6		75	17	19	4.4	306	2	31	3	0.6	0	0.1	336	5	13	0.5		8
151-065-02CDD	12-14	10/20/86	26	0.59	0.72	79	24	25	5.3	384.0	0	33	2.3	0.2	1.0	0.09	386	0	15	0.6	660	10.0
151-065-06DCD	52-57	10/20/86	24	0.03	0.37	73	21	75	8.1	363.0	0	93.0	45.0	0.2	1.0	0.22	520	0	37	2	920	8
151-065-13DBC2	74-79	06/23/87	36	0.13	0.4	61	15	13	6.1	262	0	24	5.1	0.2	2.2	0.04	292	11	0.4	500	8	
151-065-19CCD	13-18	11/20/86	25	0.03	0.2	61	32	190	11	482	0	230	40	0.4	13	0.49	840	0	58	4.9	1360	7
151-066-01CCC	47-50	07/23/68	24	0	0.01	91.0	29	17	4.7	297	0	124	7.4	0.1	0	0.15	443	101	10	0.4		6.7
151-066-01CCC	47-50	07/31/86	26	1.4	0.41	160	57	17	5.1	337	0	340	12	0.1	1.0	0.05	786	360	5	0.3		
151-066-09BBB	20-25	11/20/86	29	0.51	1.6	220	86.0	65	13	473	0	630	3.2	0.2	1.0	0.2	1280	520	13	0.9	1750	7
151-066-21CCC	28-30	05/13/69	26	5.5	0.48	83	18	147	9.9	476	0	170	25	0.3	0.3	0.37	719	0	52	3.8		
151-066-21CCC	28-30	05/13/69	26	1.2	0.46	80	23	147	9.9	477	0	175	25	0.2	0.3	0.37	723	0	51	3.7		7
151-066-23ADD2	0-20	05/13/69	24	0.92	0.23	46.0	13	67	4.3	304	0	64	4.8	0	3	0.04	377	0	45	2.2		6
151-066-28CCC	0-22	08/29/68	25	1.2	0.3	88.0	12	150	10.0	470	0	179	25	0.2	2.5	0.63	726	0	54	4	980	6.7
151-066-32BBB	19-21	10/02/67	25	1.4		81	27	50	6.2	276	0	169	8.2	0.7	8.7	0.2	513	88	25	1.2		7
151-066-32BBB	19-21	05/13/69	25	0.72	0.05	114	28	50	5.4	395.0	0	180	6.5	0	7.4	0.04	612	77	21	1.1		5
151-066-32BBB	19-21	10/22/86	27	0.05	0.03	130	40	57	7.9	449.0	0	220	11	0.1	1.0	0.09	715	120	20	1.1	1120	8
151-068-25BAA	23-26	07/24/68	23	1.1	0.16	96.0	26	58	7	347.0	0	182	11	0.2	0.2	0.15	576	61	26	1.4	780	7.8
151-068-25BAA	23-26	10/22/86	25	2.7	0.37	88.0	35	58	6.8	334	0	200	14	0.1	1.0	0.11	596	90	25	1.3	930	8

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)														Hardness CaCO <sub>3</sub>	as NCH	% Na	SAR	Spec Cond (μmho)	Temp (°C)	pH
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>	B							
152-061-27DAC	87-90	09/02/69	35	0.44	0.03	94	23	277	11	476	0	512	21	0.2	2.5	0.75	1210	0	64	6.6	5.6		
152-061-29AAA	177-180	07/28/69	28	0.2	0.02	72	26	607	14	569	0	761	265	0.1	1	2.5	2060	0	81	16	6.7		
152-061-30BBB	177-180	07/28/69	28	0.4	0.04	90	32	570	14	451	0	721	354	0.1	1	1.4	2030	0	77	13	6.7		
152-061-38BBC	147-150	06/28/68	27	0.3	0.95	182	61	180	11	578	0	617	12	0.3	1.4	0.59	1380	233	35	3	7.2		
152-061-35ABB	57-60	08/28/69	28	0	0.02	256	95	516	21	342	0	1570	188	0.1	2.7	0.37	2850	749	52	7			
152-061-35BAA	157-163	07/25/69	27	0.2	0.02	72	26	374	12	499	0	507	116	0.2	2.5	0.94	1380	0	73	9.6	6.1		
152-061-35BAZ	178-182	08/06/69	29	0.66	0.02	68	23	339	12	451	0	499	101	0.1	2.5	0.97	1300	0	73	9.1	7.2		
152-062-07ACA1	197-203	08/29/73	29	2.1	0.1	92	39	450	8.9	680	0	720	87	0.4	1	1.2	1770	0	71	9.9	2320		
152-062-07ACA1	197-203	10/02/86	12	1.5	0.07	21	34	440	13	507	0	590	100	0.1	1	1.1	1460	0	82	14	2250		
152-062-07ACA2	57-60	08/30/73	28	2.2	1.4	240	68	220	12	581	0	820	39	0.3	7.9	1.3	1730	400	35	3.2	2140		
152-062-07ACA2	57-60	10/02/86	29	5	1.3	250	73	240	18	547	0	980	41	0.1	1	0.73	1910	480	36	3.4	2450		
152-062-21DBD	124-130	10/04/73	26	0.58	1.3	150	43	110	8	515	0	360	13	0.1	1	0.52	968	130	30	2	5.5		
152-062-21DBD	124-130	07/22/81	22	0.09	1.4	160	41	100	16	518	0	330	12	0.1	1	0.41	939	150	27	1.8	1360		
152-062-21DBD	124-130	10/02/86	2.6	0.41	0.04	12	9	57	10	185	0	28	12	0	0	0.21	222	0	61	3	410		
152-062-27AAA	138-143	08/00/86	34	0.07	4.5	230	64	62	9.8	496	0	430	16	0.2	2.5	0.06	1100	430	14	0.9	1600		
152-062-27AAA	138-143	10/02/86	33	0.08	3.4	200	62	68	11	539	0	420	17	0.2	1	0.12	1080	310	16	1.1	1550		
152-062-28DBD	137-143	10/05/73	26	0.33	0.84	130	35	29	5.6	401	0	210	5.2	0.1	0.1	0.3	640	140	12	0.6	5.5		
152-062-28DBD	137-143	10/02/86	28	3.1	0.71	120	38	30	6.8	393	0	190	4.5	0.2	1	0.14	616	130	12	0.6	960		
152-062-33CDA1	318-323	09/30/87	28	0.41	0.17	73	29	180	10	500	0	270	8.9	0.2	8.6	0.27	855	0	55	4.5	1290		
152-062-33CDA2	45-50	09/30/87	26	7	2.9	540	140	28	13	569	0	1100	310	0.1	1	0.14	2450	1500	3	0.3	3100		
152-062-33CDA3	168-173	09/30/87	30	0.87	0.08	52	20	29	5.5	302	0	35	0.9	0.2	4.4	0.22	327	0	22	0.9	560		
152-062-33CDA4	133-138	10/28/87	15	0.05	0.97	150	67	130	12	623	0	420	19	0.3	12	0.3	1130	140	30	2.2	1620		
152-062-33CDA5	18-23	10/27/87	26	0.07	0.67	530	280	88	22	483	0	2200	73	0.2	1	0.08	3460	2100	7	0.8	3700		
152-063-03ABA	140-143	08/27/73	28	3.2	0.14	110	47	350	9.8	623	0	590	89	0.3	0.5	0.78	1540	0	61	7	1970		
152-063-10DAC	170-174	07/19/68	26	1.1	0.01	131	36	128	12	444.0	0	370.0	25	0.1	6.1	0.63	955	113	36	2.5	8.3		
152-063-10DAC	170-174	07/31/86	26	2.7	0.15	100.0	39	82	9.3	417.0	0	210	16	0.1	1.0	0.56	692	69	30	1.8			
152-063-13ABD	297-303	08/29/73	28	0.73	1.9	140	36	350	11	535	0	130	510	0.3	1	0.69	1440	61	60	6.8	2350		
152-063-13ABD	297-303	10/02/86	16	20	0.49	53	26	350	14	235	0	53	540	0.1	1	0.81	1190	47	75	9.8	2300		
152-063-13ACB1	248-253	10/01/87	27	0.12	1.8	180	44	100	12	318	0	260	260	0.2	4.4	0.36	1050	370	25	1.7	1700		
152-063-13ACB2	62-67	10/28/87	27	0.07	2.1	460	150	270	28	438	0	2000	49	0.2	1	0.69	3200	1400	25	2.8	2520		
152-063-13ACB3	308-313	10/01/87	27	0.09	1.8	110	28	480	16	425	0	150	710	0.2	6	0.69	1740	41	72	11	3150		
152-063-13ACB4	15-25	10/27/87	28	0.07	0.09	510	250	270	25	438	0	2300	150	0.4	12	0.09	3760	1900	20	2.4	4200		
152-063-18CCC	33-38	10/30/86	31	0.08	0.85	540	240	430.0	37	566	0	2500	170	0.2	5.3	0.24	4230	1900	28	3.9	3400		
152-064-02CBB	107-113	09/16/69	31	0.94	0.02	118	22	312	11	567	0	507	70	0.1	2	0.9	1350	0	63	6.9	7		
152-064-02CBB	107-113	07/30/86	29	1.6	0.37	91.0	28	320	13	542	0	490	68	0.1	0.1	1.2	1310	0	66	7.6	11		

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)													Hardness as CaCO <sub>3</sub>	% Na	Spec Cond (μmho)	Temp (°C)	pH	
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>	B					
152-064-07BCA	117-120	07/23/68	24	5.2	0.18	638	157	766.0	24	444.0	0	2890	499	3	0.73	5230	1880	42	7	5000 4.4	
152-064-07BCA	117-120	07/30/86	25	19	1.5	570	190	820.0	37	404.0	0	2800	500	0.1	1.0	0.86	5160	1900	44	7.6	12
152-064-07CDD	23-28	11/20/86	29	0.09	2.8	440.0	160	140	21	391.0	0	1700	57	0.2	1.0	0.19	2740	1400	15	1.4	3300 7
152-064-08BAB	13-18	10/22/86	32	0.03	0.06	240	140	530	59	757.0	0	1500	210	0.2	1.0	0.38	3090	560	48	6.7	3200 9
152-064-08BDA	57.5-62.5	10/20/86	27	0.21	1.3	180	200	740.0	47	562	0	1900	260	0.2	1.0	0.58	3630	810	55	9	5020 8
152-064-08BDD	7-17	10/20/86	24	0.04	3.7	310	98.0	410.0	23	533	0	1300	190	0.1	1.0	0.41	2620	740	43	5.2	3750 9
152-064-16DDD	13-18	10/21/86	25	0.44	0.83	190	77	190	15	480	0	740.0	50	0.2	1.0	0.26	1530	400	34	2.9	2100 9
152-064-17BDD	18-23	06/23/87	30	0.03	0.04	150	46.0	96.0	12	290	0	510	16	0.2	1.0	0.21	1000	330	27	1.8	1460 9
152-064-19ABC	110-115	11/20/86	24	0.03	1.4	83	51	180	13	423.0	0	420.0	19	0.3	1.0	0.13	1000	71	47	3.8	1490 6
152-064-22AAA	43-48	10/30/86	29	0.1	2.8	450.0	130	90.0	18	511	0	1300	25	0.2	0	0.46	2300	1200	10	0.9	2800 9
152-064-26CBC	13-18	10/30/86	27	0.07	0.08	210	140	260	16	454.0	0	1300	58	0.3	1.0	0.34	2240	730	34	3.4	2950 9
152-064-27BAA	8-13	10/30/86	27	0.94	0.67	99.0	23	48	6.4	363.0	0	140	9.8	0.2	1.0	0.19	535	44	23	1.1	860 9
152-064-27BBB	57-60	10/23/87	26	0.24	142	31	105	11	409.0	0	354.0	17	0.2	0.5	0.15	888	149	31	2.1	1150 6.7	
152-064-27BBB	57-60	08/06/81	28	1.9	0.98	110	26	74	9.3	414.0	0	190	11	0.2	1.0	0.37	657	40	29	1.7	941 7.5
152-064-27BBB	57-60	07/31/86	29	3	1.0	120	30	67	9.2	362.0	0	240	16	0.2	7	0.12	701	130	25	1.4	
152-064-35DBB	8-13	11/07/86	29	0.04	0.84	97.0	38	92.0	10.0	462	0	190	27	0.3	1.0	0.24	713	20	33	2	1150 8
152-065-06AAA1	78-83	09/29/87	32	0.37	1.3	180	45.0	110	10.0	421.0	0	520	14	0.1	1.0	0.1	1120	290	27	1.9	1550 8.6
152-065-06AAA2	16-21	10/28/87	26	0.16	0.98	380.0	140	430.0	25	401.0	0	1500	500	0.2	1.0	0.31	3200	1200	38	4.8	3650 9
152-065-07AAA1	98-103	09/29/87	35	0.74	0.55	110	28	120	10.0	469	0	230	32	0.2	1.0	0.19	799	5	39	2.6	1230 8.2
152-065-07AAA2	33-38	09/29/87	35	0.08	1.3	180	43.0	94.0	8.8	418.0	0	370.0	69	0.2	0.08	1010	280	24	1.6	1520 8.2	
152-065-07CCC	127-130	07/23/68	25	0.2	0.05	125	31	88.0	9.3	375.0	0	261	33	0.1	0	0.34	758	131	30	1.8	7.2
152-065-07CCC	127-130	08/05/81	27	0.78	0.95	130	26	110	9.6	443.0	0	270	27	0.2	1.0	0.14	821	67	35	2.3	1122 7.5
152-065-07CCC	127-130	10/22/86	27	1.1	0.8	120	29	100.0	9.7	386.0	0	260	28	0.1	1.0	0.21	767	100	34	2.1	1200 8
152-065-11CAB	13-18	11/20/86	31	0.06	0.29	200	110	330	15	669	0	1000.	49	0.2	0.4	0.66	2070	400	43	4.7	2800 7
152-065-11CAC	23-28	11/20/86	27	0.13	0.85	540	670	380.0	25	715.0	0	3800	96.0	0.5	1.0	0.28	5890	3500	17	2.6	3800 7
152-065-13CAC	137-143	09/18/69	28	0.22	0.54	86.0	17	26	3.9	307	0	77	3.7	0.1	0	0.07	393	33	16	0.7	630 7.2
152-065-17BAA	33-38	10/22/86	28	0.03	1.1	110	64	64	14	414.0	0	340	24	0.3	1.0	0.08	851	200	20	1.2	1340 9
152-065-17BBB2	32-37	09/29/87	36	2	1.3	76	69	88.0	20	364.0	0	340	23	0.1	0.4	0.07	835	180	28	1.8	1210 9.6
152-065-20BBC	33-38	06/23/87	32	0.03	0.02	140	29	7.5	3.9	352.0	0	200	9.9	0.2	6.1	0.03	602	180	3	0.2	890 9
152-065-21BBC	0-0	10/09/67	28	0.94	132	20	18	4.7	344.0	0	143	6.1	0.3	0	0.2	522	130	9	0.4	8	
152-065-22DDD	113-118	06/23/87	19	0.64	3.7	180	110	240	34	287	0	1000.	85	0.3	1.0	0.1	1810	670	36	3.5	2600 9
152-066-07BBB	48-53	10/21/86	24	0.24	0.45	96.0	28	51	8.8	378.0	0	150	16	0.2	1.0	0.15	562	45	23	1.2	1040 9
152-066-21AAD	140-145	10/17/67	29	1.3	108	63	143	16	534	0	352.0	38	0.1	3	0.24	1020	88	36	2.7	1380 7.8	
152-066-21AAD	140-145	09/22/86	25	0.06	0.32	89.0	67	140	17	555	6	290	35	0.2	5.3	0.33	948	33	37	2.7	1400 10.0
152-066-21AAD2	58-63	10/21/86	26	0.23	0.67	93.0	60	130	16	525	0	290	33	0.1	1.0	0.23	909	49	36	2.6	1380 9
152-066-24CAB	97-103	09/19/69	30	0.28	0.61	102	23	19	3.7	356.0	0	78	5.7	0.1	0	0	437	58	10	0.4	680 7.2
152-066-24CAB	97-103	10/22/86	27	2.3	1.3	190	46.0	11	3.9	301	0	420.0	10.0	0.2	1.0	0.07	861	420	3	0.2	1260 8
152-066-27DDD	18-23	10/21/86	25	0.1	0.72	160	65	73	13	472	0	450.0	9.6	0.2	1.0	0.11	1030	280	19	1.2	1550 8
152-067-12CCC	15-20	10/29/86	27	0.27	1.4	410.0	2500	2100	42	1270	0	14400	130	0.2	1.0	0.44	20200	10300	29	8.6	11600 9
152-067-14CCB	10-15	10/29/86	31	0.11	0.08	230	700.0	1300	35	653	0	5400	36	0.6	1.0	0.4	8060	2900	45	9.6	6000 9

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)														Hardness CaCO <sub>3</sub>	as NCH	‰ Na	SAR	Spec Cond (μmho)	Temp (°C)	pH
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>	B							
153-062-29CCC	58-61	09/13/74	19	2.3	2	270	35	270	11	520	0	790	160	0.1	1	0.83	1820	390	41	4.1	2400	6.5	
153-063-09CDD	97-103	08/21/73	27	6.5	0.49	170	67	280	9.7	559	0	720	58	0.2	0.5	1.1	1620	240	46	4.8		7	
153-063-13BBB	23-28	10/30/86	27	0.04	0.52	280	140	75	10	491	0	970	13	0.2	1	0.15	1760	870	11	0.9	2000	9	
153-063-14CCC	14-19	10/30/86	30	0.06	0.05	410	210	260	10	331	0	2100	33	0.2	2.1	0.15	3220	1600	23	2.6	2400	9	
153-063-21DDD	13-18	10/30/86	30	0.07	0.09	330	210	1000	28	492	0	3200	110	0.2	0.1	1.5	5150	1300	56	11	4150	9	
153-063-29ADD	137-143	08/23/73	28	1.8	0.39	63	25	170	6.5	450	0	210	39	0.4	1	0.3	767	0	58	4.6	1090	7	
153-063-29ADD	137-143	10/02/86	32	2.2	0.31	60	25	160	9	436	0	190	39	0.2	1	0.34	734	0	57	4.4	1120	8	
153-063-30CBC	137-143	06/03/70	32	2.7	0.14	93.0	29	235	9.1	490	0	371.0	69	0.3	0.5	0	1080	0	59	5.5	1500	8.5	
153-063-30CBC	137-143	08/05/81	30	1.4	0.16	91.0	32	250	12	523	0	380.0	69	0.2	1.0	0.55	1130	0	59	5.7	1560	8	
153-063-30CBC	137-143	07/30/86	32	2.9	0.13	86.0	34	240	12	472	0	380.0	69	0.2	3.6	0.73	1090	0	59	5.6		9	
153-063-34BBC	160-163	08/30/73	28	4.8	0.16	100	32	420	11	586	0	750	68	0.4	1	0.65	1710	0	70	9.4	2225	7	
153-064-03CBC	0-0	10/13/88	18	0.05	0.2	140	170	530	25	294	0	1700	250	0.2	1	0.8	2980	810	52	7.3		7	
153-064-04ADD1	14.5-24.5	07/25/88	27	0.06	0.02	110	55	1700	27	642	0	1600	1400	0.3	19	0.45	5250	0	87	33	8240	17	
153-064-04ADD2	8-13	07/25/88	31	0.09	0.08	360	250	2300	52	514	0	4900	1100	0.4	9.5	2.1	9260	1500	72	23	11400	16	
153-064-04BAC	0-0	10/13/88	20	0.05	0.04	110	150	570	38	595	34	1100	360	1.1	2.3	0.9	2680	350	57	8.3		7	
153-064-04BBB	23-28	10/29/86	31	0.07	3.8	360	170	1300	43	498	0	3500	200	0.4	1	0.76	5860	1200	63	14	4900	9	
153-064-04CAA1	19.5-24.5	07/25/88	29	0.08	0.04	400	280	1900	34	579	0	4600	810	0.2	4.6	0.56	8340	1700	65	18	10370	12	
153-064-04CAA2	8-13	07/25/88	32	0.09	1	380	130	1400	29	513	0	3700	380	0.1	17	0.95	6320	1100	67	16	7530	16	
153-064-04CAA3	73-78	06/08/88	36	0.05	0.07	15	7	580	13	802	0	460	200	0.5	0.5	2.3	1710	0	94	31	2820	10	
153-064-04CAA4	34-39	06/08/88	35	1.7	0.59	90	35	850	24	581	0	1400	300	0.2	12	1.6	3040	0	82	19	4320	9	
153-064-04DCC1	19-24	07/08/88	25	0.02	0.18	150	79	190	10	552	0	560	82	0.2	0.6	0.18	1370	250	37	3.1	1970	13	
153-064-04DCC2	8-13	07/08/88	27	0.01	0.53	130	63	180	9.6	540	0	460	70	0.2	1	0.2	1210	140	40	3.3	1940	10	
153-064-04DCD3	120-125	06/08/88	28	0.06	0.17	60	50	900	40	709	0	790	700	0.5	0.8	2.5	2920	0	83	21	4670	10	
153-064-04DCD4	80-85	06/08/88	32	0.65	0.46	95	33	410	20	512	0	690	130	0.5	5.2	1.3	1670	0	69	9.3	2730	10	
153-064-05DAA	0-0	10/13/88	11	0.07	0.26	150	350	1100	82	894	27	2700	580	0.6	1	4.2	5450	1000	55	11		7	
153-064-05DDA1	73.2-78.2	06/09/88	37	1.4	1.4	250	95	660	29	355	0	1900	200	0.2	0.9	0.76	3350	720	58	9	4270	8	
153-064-05DDA1	73.2-78.2	07/08/88	25	0.1	1.2	240	100	700	23	338	0	1900	180	0.1	1	0.66	3340	730	59	9.6	4420	9	
153-064-05DDA2	35-40	06/09/88	29	2.5	2.2	500	270	520	32	368	0	3100	140	0.1	1	0.34	4780	2100	32	4.6	5070	8	
153-064-067DCD	33-38	10/30/86	22	0.04	0.23	230	53	160	38	106	0	700	220	0.1	1.1	0.08	1480	710	29	2.5	2150	9	
153-064-09ABD1	125-130	06/08/88	34	0.07	0.19	29	11	690	15	667	0	710	290	0.4	0.8	2.6	2110	0	92	27	3480	9	
153-064-09ABD2	85-90	06/08/88	24	0.21	0.59	100	28	460	19	475	0	800	160	0.1	0.6	0.86	1830	0	72	11	2730	10	
153-064-09BAD1	93-98	06/08/88	30	0.35	0.26	21	8	410	9.8	382	0	540	110	0.5	0.4	1.1	1320	0	90	19	2370	9	
153-064-09BAD2	43-48	06/08/88	30	1.5	1.8	370	120	380	25	404	0	1700	160	0.1	0.4	0.24	2990	1100	36	4.4	3910	9	
153-064-09BBC1	92-97	06/08/88	25	0.18	0.9	140	60	440	17	528	0	1000	90	0.1	0.7	0.71	2030	160	61	7.8	3150	9	
153-064-09BBC2	58-63	06/08/88	28	0.05	0.97	260	100	360	20	524	0	1300	140	0.1	1	0.54	2470	630	42	4.7	3070	9	
153-064-09BBC3	10-15	07/08/88	22	0.11	5.1	440	390	810	37	460	0	3800	170	0.4	1	0.39	5900	2300	39	6.8	6670	10	
153-064-09DC1	85-95	06/09/88	28	0.39	0.61	67	27	300	11	387	0	600	26	0.2	8.8	0.73	1260	0	69	7.8	1910	8	
153-064-09DC2	38-48	06/09/88	29	0.46	2.7	620	160	300	20	374	0	2100	220	0.2	0.2	0.22	3640	1900	23	2.8	4300	9	
153-064-09DC3	10-20	07/06/88	26	0.04	0.04	460	290	460	15	553	0	2700	26	0.8	4.4	0.72	4260	1900	30	4.2	5240	10	
153-064-09DDA1	93-98	06/09/88	29	0.01	0.16	22	9	560	11	656	0	760	33	0.3	8.2	0.96	1760	0	92	25	2700	9	
153-064-09DDA2	18-23	07/06/88	23	0.05	6	440	300	870	30	516	0	3400	210	0.4	1.1	0.49	5540	1900	44	7.9	6910	10	
153-064-10BBC1	8-18	10/20/86	25	0.03	1.6	120	66	220	9.4	523	0	460	94	0.3	1	0.17	1260	140	45	4	2050	9	
153-064-10BBC1	8-18	07/06/88	24	0.02	1.8	130	71	220	7.8	575	0	470	99	0.3	1	0.23	1310	150	43	3.9	2050	10	
153-064-11DCD	0-80	05/24/73	25	3.8	1.1	164	70	103	8.1	375	0	522	40	0.1	2.4	0.34	1220	390	24	1.7			
153-064-12DDA	33-38	10/30/86	31	0.53	1.6	390	130	90	23	553	0	1200	51	0.1	1	0.19	2190	1100	11	1	2600	9	
153-064-19AAB3	117-122	08/30/73	27	7	0.4	150	52	120	9.6	493	0	370	48	0.3	0.2	0.73	1030	190	30	2.1	1370	7	
153-064-19AAB3	117-122	07/28/81	25	0.1	0.01	87	35	5.5	14	456	0	15	5.5	0.1	1	0.18	413	0	3	0.1	625	9.5	
153-064-19AAB3	117-122	08/02/83	28	0.04	0.19	120	49	6.5	10	584	0	29	11	0.2	4.1	0.03	546	23	3	0.1	850	18	
153-064-19AAB3	117-122	09/22/86	32	0.02	0.01	140	60	7.5	9.1	590	0	12	2.7	0.1	7.2	0.06	562	110	3	0.1	1040	12	
153-064-19AAB3	117-122	09/29/87	26	0.03	0.75	180	64	120	18	465	0	320	130	0.2	1	0.15	1090	330	26	2	1700	9.8	
153-064-21BAB	15-25	10/30/86	32	0.04	0.01	120	78	210	9.5	616	0	540	44	0.5	1	0.23	1340	120	42	3.7	1950	9	
153-064-21CCC1	218-223	06/09/88	28	2	0.27	150	57	390	17	534	0	690	230	0.2	8.7	0.83	1840	170	57	6.9	2780	10	
153-064-21CCC2	93-98																						

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)														Hardness CaCO <sub>3</sub>	as NCH	% Na	SAR	Spec Cond (μmho)	Temp (°C)	pH
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>	B							
153-064-29BBBA4	46-51	10/28/87	30	5.2	2.5	590	240	200	25	676	0	2000	250	0.1	1	0.19	3680	1900	15	1.7	4050	8	
153-064-33DDD	24-29	11/06/86	27	0.08	0.67	60	34	13	25	258	0	120	9.9	0.1	1.0	0.07	418	78	8	0.3	690	8	
153-064-35DCC	28-33	10/30/86	28	0.13	3	460.0	1100	1800	59	618	0	8000	400.0	0.4	1.0	0.62	12200	5200	41	10.0	8400	9	
153-064-36DCC	13-18	10/30/86	26	0.08	1.6	400.0	370.0	860.0	46.0	264	0	3500	390.0	0.2	1.0	0.59	5730	2300	42	7.5	4800	9	
153-065-02CCC	23-28	10/29/86	29	0.73	3.3	510	210	74	14	510	0	1800	32	0.1	0.1	0.19	2920	1700	7	0.7	3400	9	
153-065-03BBB	157-163	09/04/73	26	4.8	0.22	180	80	180	11	631	0	630	14	0.2	0.2	0.99	1440	260	33	2.8	1850	6.5	
153-065-03BBB	157-163	06/01/88	26	4.6	0.07	170	79	180	16	627	0	590	15	0.2	6.5	0.63	1400	240	34	2.9	2150	8	
153-065-04CCD	118-121	07/30/86	29	2.9	0.19	180	72	120	14	440	0	500	14	0.1	1	0.46	1150	380	25	1.9		13	
153-065-09AAB	23-28	10/29/86	30	0.07	3.1	450	100	60	18	310	0	1400	14	0.1	1	0.15	2230	1300	8	0.7	2600	9	
153-065-09BBA1	98-101	08/23/74	21	5.2	0.24	170	79	190	12	630	0	610	26	0.4	1	0.59	1430	230	35	3		7	
153-065-09BBA3	74-113	10/16/74	21	5.8	0.2	190	69	140	13	620	0	550	16	0.4	1	0.24	1310	250	28	2.2		9	
153-065-09BBA3	74-113	10/17/74	22	6.1	0.22	190	69	140	13	620	0	550	17	0.5	1	0.43	1310	250	28	2.2		9	
153-065-09BBA3	74-113	10/18/74	20	5.7	0.22	200	63	140	13	620	0	550	17	0.5	1	0.24	1320	250	28	2.2	1900		
153-065-09BBA3	74-113	10/19/74	21	5.9	0.22	190	69	140	13	620	0	550	17	0.6	1	0.2	1310	250	28	2.2		9	
153-065-09BBA3	0-0	10/16/74	9.4	1.1	0	200	54	570	70	460	10	1300	260	0.5	4.9	0.59	2710	340	61	9.2		7	
153-065-09BCD	98-101	08/26/74	20	4.5	0.2	200	73	180	13	620	0	680	15	0.4	1	0.39	1490	290	32	2.8	2025	7	
153-065-09DDD2	117-120	09/07/73	27	4.8	0.16	170	65	130	11	620	0	470	10	0.3	0.2	1	1190	180	29	2.2		6.5	
153-065-09DDD2	117-120	07/22/81	29	3.4	0.16	170	62	150	12	672	0	470	9.9	0.2	1	0.14	1240	130	32	2.5	1850	7	
153-065-09DDD2	117-120	07/30/86	30	4	0.13	160	69	140	14	552	0	460	9.6	0.1	1	0.64	1160	230	30	2.3		10	
153-065-09DDD2	117-120	06/01/88	3.4	1.3	0.09	39	56	140	14	449	0	250	10	0.1	2.8	0.43	738	0	47	3.3	1285	9	
153-065-10BBB	138-141	08/27/74	19	3.3	0.16	180	88	81	10	570	0	470	8.2	0.4	1	0.55	1140	340	18	1.2	1620	6.5	
153-065-10BBB	138-141	06/23/87	35	1.8	4.2	120	50	32	17	558	0	150	9.4	0.1	17	0.05	712	48	12	0.6	1380	8	
153-065-11ADD	140-143	09/06/73	27	3.6	0.23	120	49	220	10	628	0	380	46	0.4	0.2	1.1	1170	48	43	4.3	1600	7	
153-065-11ADD	140-143	07/30/86	32	2.2	0.19	120	44	220	13	628	0	360	45	0.2	0.1	0.96	1150	0	49	4.4		10	
153-065-11ADD	138-141	08/28/74	20	0.43	0.26	140	68	220	12	650	0	500	23	0.4	0.5	0.55	1310	97	43	3.8	1950	6.5	
153-065-12BCC	18-23	10/29/86	29	0.06	0.32	590	260	120	16	320	0	2400	9.3	0.2	0.5	0.21	3580	2300	9	1	3900	9	
153-065-15DDA	117-120	09/04/73	27	7.9	0.57	260	85	210	13	744	0	830	24	0.3	0.2	0.82	1830	390	31	2.9	2250	6.5	
153-065-15DDA	117-120	07/30/86	30	5.6	0.44	250	95	220	16	568	0	830	24	0.1	1.1	0.76	1750	550	32	3		10	
153-065-18CCC	6-16	10/28/87	31	0.07	0.12	260	54	51	30	367	0	650	12	0.3	1.7	0.03	1270	570	11	0.7	1650	12	
153-066-01DDD	97-103	09/22/69	32	0.06	0.02	75	13	359.0	11	663	0	395.0	67	0.7	2.5	0.94	1280	0	75	10.0		7	
153-066-01DDD	97-103	07/24/86	32	2.2	0.05	51	24	350.0	14	658	0	380.0	65	0.4	0.3	0.96	1240	0	76	10.0	1725	11	
153-066-18CDD1	73-78	10/28/87	9.4	0.06	0.88	490	170	1400	38	393.0	0	3700	540	0.2	1.7	1.1	6550	1600	61	14	5400	11	
153-066-18CDD2	33.5-38.5	09/29/87	28	6.1	3.4	540	260	1100	35	593	0	3400	710.0	0.1	1.0	0.69	6380	1900	49	9.8	7500	8.1	
153-066-18CDD3	9-14	10/28/87	30	0.09	2.2	430.0	720.0	1800	33	621	0	7100	330	0.3	1.0	0.2	10800	3500	49	12	7800	11	
153-066-21AAB	0-60	05/10/68	31	2.5	0.04	130	74	469	16	575	0	925.0	169	1.7	6.9	0.68	2110	159	61	8	2800	9	
153-066-23AAA	24-29	10/28/87	25	0.07	0.59	240	61	330	17	443	0	1200	32	0.3	1	0.64	2130	490	45	4.9	2600	10	
153-066-23BBB	18-23	10/28/87	22	1	1.8	460	1000	1700	29	529	0	7300	830	0.3	1	0.51	11600	4800	41	10	7900	10	
153-067-26ACC	10-15	10/29/86	29	0.22	0.44	420.0	1300	2700	40	1080	0	10300	640	0.3	0.7	0.54	16000	5500	48	15	11000	9	
153-067-35AAB	10-20	10/21/86	21	0.06	0.7	360.0	130	170	13	268	0	1300	170	0.1	1.0	0.34	2300	1200	20	2	3300	9	
153-067-35AAB	10-20	10/29/86	36	0.02	0.01	90.0	56	19	3.7	497	0	120	2.8	0.3	0.3	0.16	573	48	8	0.4	1160	9	
153-067-35ADC	10-15	06/02/88	22	2.4	1.8	380.0	110	160	13	429.0	0	1100	170	0.1	2.2	0.46	2170	1100	20	1.9	2980	9	
153-068-18DDD1	42-45	07/29/68	23	0.58	0.66	148	31	52	10.0	395.0	0	278	8.7	0.1	0	0.39	747	175	18	1.0	950	6.7	
153-068-18DDD1	42-45	06/23/87	26	2.4	0.77	220	110	65	9.9	368.0	0	780.0	8.7	0.3	5.2	0.17	1410	700	12	0.9	1900	7	
153-068-18DDD2	77-80	07/29/68	26	0.52	0.54	118	24	226	11	463	0	469	25	0.3	0.3	0.73	1130	15	55	4.9	1350	7.2	
153-068-18DDD2	77-80	06/23/87	28	1.5	0.53	96.0	34	230	14	441.0	0	480	30	0.2	6.7	0.47	1140	18	56	5.1	1750	8	

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)													Hardness as CaCO <sub>3</sub>	% Na	SAR	Spec Cond (μmho)	Temp (°C)	pH		
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>								
154-062-06DDD	48-51	09/12/74	21	1.1	1.3	140	17	720	11	570	0	1400	97	0.2	1	0.98	2690	0	78	15	3500	7	
154-062-06DDD	48-51	07/22/86	31	1.4	1.6	130	40	720	17	539	0	1500	84	0.2	9.7	0.85	2800	48	75	14	3250	11	
154-062-07DDD	57-60	08/21/73	25	0.29	0.8	65	19	330	8.7	473	0	540	15	0.4	3.6	0.52	1240	0	74	9.3	6.5		
154-062-07DDD	57-60	07/22/86	25	2.9	0.55	60	18	330	12	458	0	550	14	0.1	0.2	0.59	1240	0	75	9.7	1700	12	
154-063-07CCC	18-23	10/21/86	29	0.04	0.03	200	140	61	5.4	423	0	780	9.6	0.3	0.2	0.11	1430	730	11	0.8	1950	9	
154-063-21AAA	70-73	08/10/73	24	3.1	1.7	130	45	190	13	503	0	500	12	0.2	6.8	0.52	1170	98	44	3.7	1550	6.5	
154-063-27BBB	101-108	09/13/74	20	1.3	1.2	90	45	180	9	500	0	400	7.9	0.1	1	0.47	1000	0	48	3.9	1400	6.5	
154-063-27BBB	101-108	07/22/86	30	3.5	0.92	96	38	190	11	467	0	410	6.7	0.1	0.3	0.48	1020	14	50	4.1	1325	12	
154-063-30BBB	28-33	10/29/86	28	0.07	2.3	480	290	300	34	633	0	2500	23	0.2	1	0.37	3970	1900	21	2.7	3000	9	
154-064-12CCC	83-86	08/17/73	26	0.52	1.1	170	50	330	12	530	0	850	23	0.4	4.5	0.65	1730	200	53	5.7	2025	6.5	
154-064-12CCC	83-86	06/24/87	19	1.3	0.54	150	43	380	18	473	0	910	25	0.1	1	0.84	1780	160	59	7	2600	8	
154-064-29ADD	22.5-27.5	10/21/86	24	2.4	2.7	440	320	810	31	505	0	3500	160	0.2	1	0.37	5540	2000	42	7.2	6000	8	
154-064-31CCD1	69-74	06/09/88	28	2.1	0.54	170	57	130	14	503	0	540	23	0.2	7.5	0.38	1220	250	29	2.2	1680	8	
154-064-31CCD2	14.5-24.5	07/08/88	24	0.02	0.28	190	96	180	11	478	0	800	32	0.3	26	0.51	1600	480	31	2.6	2260	8	
154-064-33BBA1	18-23	07/06/88	25	1.1	1.1	200	56	200	11	424	0	680	93	0.2	0.1	0.4	1480	360	37	3.2	2440	9	
154-064-33BBA2	5-10	07/06/88	27	0.02	1.2	160	66	180	9.7	395	0	590	84	0.3	0.6	0.36	1310	350	36	3	2160	10	
154-064-33DCD	0-0	10/13/88	27	0.03	0.59	120	100	420	28	626	0	720	300	1.2	2.1	0.7	2030	200	55	6.8		7	
154-064-33DCD	0-0	10/13/88	28	0.22	0.49	120	73	340	24	647	0	470	260	1.2	0.3	0.57	1640	70	54	6		7	
154-064-34CCB1	18-28	07/06/88	24	0.02	0.35	140	52	480	19	487	0	900	310	0.2	0.4	1.3	2170	160	64	8.8	3620	11	
154-064-34CCB2	8-13	07/06/88	21	0.11	0.08	450	850	3200	80	622	0	7800	1700	0.2	8.8	0.84	14400	4100	60	21	19600	10	
154-064-34CCB3	93-98	06/08/88	31	0.3	0.22	30	9	550	14	612	0	490	240	0.4	0.7	1.8	1670	0	90	23	2940	9	
154-064-34CCB4	74-79	06/08/88	31	0.31	0.24	38	10	500	14	600	0	520	170	0.4	6.5	0.16	1590	0	88	18	2460	8	
154-065-02DDD	18-23	10/29/86	29	0.08	0.43	430	240	190	18	470	0	1900	59	0.3	1	0.25	3100	1700	17	1.7	2600	9	
154-065-04CCD	0-121	08/22/74	20	3.9	0.26	190	65	120	12	570	0	540	14	0.4	2.2	0.16	1250	270	26	1.9	1680	7.5	
154-065-07AAA1	26-31	10/22/86	25	0.33	2.6	500	660	970	30	759	0	4800	240	0.2	1	0.51	7600	3300	35	6.7	5500	9	
154-065-07AAA2	26-31	07/10/86	25	0.34	3.1	490	660	970	37	783	0	4700	24	0.1	3.9	0.86	7300	3300	35	6.8	6000	12	
154-065-07CDD	130-133	09/11/73	27	6.1	0.56	160	58	73	8.1	519	0	350	15	0.3	1	0.52	956	210	20	1.3	1250	7	
154-065-07CDD	130-133	07/24/86	29	5.6	0.44	160	54	70	11	506	0	340	12	0.1	1.5	0.36	933	210	19	1.2	1225	11	
154-065-11CCD	0-0	05/16/84	6	0.03	0.24	120	95	210	20	218	0	880	36	0.1	1	0.2	1480	510	39	3.5	2050	13	
154-065-11CCD	0-0	03/27/85	30	0.03	1.1	110	96	190	50	624	13	530	77	0.3	6.9	0.18	1410	140	36	3.2	1820	3	
154-065-11CCD	0-0	06/11/85	1.3	0.02	0.02	32	51	160	21	204	3	450	31	0.2	1	0.23	851	120	8	4.1	1230	15	
154-065-11CCD	0-0	04/03/86	25	0.04	0.02	70	47	88	25	374	0	220	31	0.1	1	0.12	691	62	32	1.2	1030	5.5	
154-065-11CCD	0-0	07/10/86	25	0.03	0.14	69	49	100	24	316	0	300	33	0.2	1	0.2	758	110	35	2.3	1080	20.5	
154-065-11CCD	0-0	04/09/87	18	0.03	0.94	73	45	81	24	390	0	200	37	0.1	4.1	0.17	675	48	31	1.8	1120	3	
154-065-11CCD	0-0	04/30/87	3.1	0.03		47	23	42	14	186	0	120	18	0.2	1	0.07	360	60	28	1.3	560	12.5	
154-065-11CCD	0-0	05/19/87	5.1	0.03	0.01	47	28	50	16	235	0	140	18	0.2	1.2	0.06	422	40	30	1.4	670	12.5	
154-065-11CCD	0-0	06/24/87	12	0.05	0.06	30	28	61	20	191	0	150	23	0.1	1	0.09	419	34	38	1.9	670	26.5	
154-065-11CCD	0-0	08/11/87	24	0.02	0.1	68	38	110	22	373	0	230	28	0.2	0	0.14	704	21	40	2.6	1040	22	
154-065-11CCD	0-0	03/23/88	14	0.15	0.64	52	25	69	15	187	0	230	20	0.1	1	0.12	519	80	37	2	795	1.7	
154-065-11CCD	0-0	04/07/88	8	0.03		0	45	31	64	19	268	0	150	26	0.1	0.8	0.16	476	21	34	1.8	772	11.5
154-065-11CCD	0-0	04/22/88	19	0.05	0.01	61	38	79	21	349	0	180	28	0.2	0.3	0.17	599	23	34	2	950	5	
154-065-11CCD	0-0	06/03/88	8.1	0.02	0.33	75	61	160	25	419	0	400	41	0.2	1	0.26	978	95	43	3.3	1480	8	
154-065-11CCD	0-0	04/07/89	11	0.06	0.65	83	45	110	9.9	148	0	480	20	0.1	3.7	0.12	837	270	37	2.4	1160	0	
154-065-11CCD	0-0	04/20/89	13	0.06	0.66	93	47	120	8.6	172	0	520	17	0.1	1.7	0.11	906	280	37	2.5	1460	6.6	
154-065-11CCD	0-0	05/04/89	8.1	0.01	0.07	67	51	110	28	282	0	360	39	0.2	1	0.1	803	150	37	2.5	1170	12	
154-065-11CCD	0-0	04/03/90	15	0.09	0.82	120	49	150	17	269	0	600	26	0.1	1.4	0.3	1110	280	38	2.9	1590	1	
154-065-11CCD	0-0	04/11/90	17	0.07	0.46	150	64	210	17	338	0	770	38	0.1	1.3	0.36	1440	360	41	3.6	2040	1.5	
154-065-11CCD	0-0	04/19/90	13	0.04	0.06	170	110	360	22	401	0	1200	96	0.1	19	0.48	2190	550	46	5.3	2950	7.5	
154-065-11CCD1	70.5-80.5	10/28/87	30	0.09	0.08	22	9	660	13	879	13	200	470	0.5	8.8	2.4	1860	0	93	30	2900	9	
154-065-11CCD2	35-45	10/28/87	27	0.06	0.45	140	38	600	19	464	0	490	660	0.2	1.6	1.1	2210	130	71	11.6	3400	8	
154-065-11CCD3	5-15	10/28/87	24	0.21	1.4	380	1600	4000	35	721	0	14000	410	0.2	3.7	0.44	20800	6900	53	20	20000	10	
154-065-15CCC	300-303	09/07/73	26	4.6	0.87	180	63	110	8.5	544	0	480	13	0.2	0.1	1.2	1160	260	25	1.8	1510	7	
154-065-17AAA	133-136	08/20/74	20	0.82	0.2	110	50	280	11	670	0	440	62	0.6	0.5	0.55	1310</td						

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)														Hardness CaCO <sub>3</sub>	as NCH	% Na	Spec Cond (μmho)	Temp (°C)	pH
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>	B						
154-065-28DAA4	73-78	10/28/87	27	0.07	1.2	190	74	220	19	590	0	680	30	0.2	5.9	0.35	1540	300	37	3.4	2150	8
154-065-28DAB	257-263	06/28/74	21	5.8	0.42	180	66	210	12	620	0	640	15	0.3	2.5	0.08	1460	210	38	3.4	2100	
154-065-28DAB	257-263	09/30/87	27	2.2	0.54	190	61	200	16	612	0	630	8.8	0.1	1	0.42	1440	220	37	3.2	2000	
154-065-28DDC	117-120	08/19/74	21	3.2	0.32	150	60	210	12	630	0	550	14	0.4	0.2	0.43	1330	100	42	3.7	1800	7
154-065-28DDC	117-120	07/24/86	30	0.17	5.5	470	1100	1200	50	679	0	6600	800	0.2	1	0.18	10600	5100	31	6.9	1775	10
154-065-28DDA1	178-183	09/30/87	28	0.05	0.12	24	9	600	12	660	0	640	220	0.6	0.9	1.9	1860	0	92	26	2950	7.4
154-065-31AAA	14-19	10/29/86	28	0.05	0.8	93	43	18	4.4	505	0	150	9.2	0.2	1	0.05	597	0	9	0.4	860	9
154-065-32CCC	140-143	09/27/73	26	1.3	0.08	65	21	390	10	683	0	480	57	0.3	1	1.2	1440	0	76	11		6
154-065-33AAA	30-35	07/09/86	28	0.12	5.9	460	1100	1200	52	670	0	6700	790	0.2	2.9	0.42	10700	5100	31	6.9	9700	16
154-065-33AAA	30-35	07/24/86	32	3.7	0.2	150	63	210	15	628	0	560	12	0.2	0.3	0.64	1360	120	41	3.6	8000	12
154-065-33AAA	30-35	10/21/86	26	0.12	5.6	460	1300	1300	49	765	0	6900	720	0.2	1	0.23	11100	5900	30	7	8300	9
154-065-35AAA	140-143	06/26/74	21	0.04	0.08	96	32	220	8.8	610	0	320	14	0.4	0.3	0.55	1010	0	56	5		
154-065-35AAA	140-143	07/25/86	30	1.5	0.25	91	32	220	12	617	0	310	13	0.2	6.8	0.58	1020	0	56	5		10
154-065-35BBB	124-127	08/13/74	23	0.04	0.06	90	38	330	13	720	0	420	77	0.7	1	1.5	1350	0	64	7.4	2000	6.5
154-065-35BBB	124-127	07/24/86	29	0.8	0.06	87	36	320	17	694	0	410	70	0.2	0.4	0.75	1310	0	64	7.2		
154-066-01CCC	160-163	09/11/73	28	4	0.23	160	61	79	8.7	507	0	350	33	0.4	1	1.3	977	230	21	1.4	1290	8
154-066-01CCC	160-163	06/23/87	29	3.9	0.17	150	59	76	12	460	0	350	30	0.2	4.8	0.29	942	240	27	1.3	1440	8
154-066-09DDD	78-81	08/20/74	21	2.4	0.46	120	54	300	9.8	600	0	570	69	0.6	0.3	0.2	1440	28	55	5.7	2000	7.5
154-066-09DDD	78-81	07/24/86	32	2.2	0.51	120	45	300	13	599	0	570	65	0.3	0.7	0.49	1440	0	57	5.9	2000	11
154-066-15DDD	77-80	09/12/73	28	1.8	0.16	120	29	160	9.3	504	0	310	31	0.5	1	1.4	940	7	45	3.4	1300	7.5
154-066-15DDD	77-80	06/23/87	30	2	0.16	100	39	150	13	481	0	310	30	0.3	5.5	0.27	920	16	43	3.2	1460	7
154-066-17AAA	13-18	10/29/86	27	0.05	0.15	280	140	240	19	445	0	1200	140	0.2	1	0.19	2270	910	29	2.9	2300	9
154-066-23DDD	120-123	09/14/73	28	3.3	0.13	120	46	130	9.8	553	0	310	21	0.4	0.2	0.65	941	37	36	2.5	1310	6.5
154-066-23DDD	120-123	07/21/81	31	3.1	0.13	120	46	150	11	581	0	310	20	0.2	1	0.37	979	14	39	2.9	1338	7
154-066-23DDD	120-123	07/30/86	32	2.9	0.11	120	47	130	12	539	0	310	20	0.2	4.8	0.55	946	52	36	2.5		9
154-066-25DDA	138-141	08/28/74	21	0.41	0.16	55	23	290	9.9	570	0	350	44	0.6	1	0.28	1080	0	72	8.3	1680	7
154-066-25DDA	138-141	07/24/86	31	0.88	0.11	54	22	290	13	551	0	350	43	0.3	1	0.7	1080	0	72	8.3	1500	10
154-066-32ADD	10-15	10/21/86	27	0.09	0.16	350.0	480	49	20	749.0	0	2400	82	0.1	52	0.15	3830	2200	4	0.4	5020	9
154-066-34ADD2	35-40	10/28/87	25	0.02	0.61	92	43	240	13	586	0	410	33	0.3	1	0.33	1150	0	55	5.2	1600	10
154-066-34ADD3	3-13	10/28/87	23	0.19	0.47	130	57	270	16	610	0	610	51	0.3	1	0.46	1460	59	50	5	2080	10
154-066-34ADD4	58-68	09/30/87	27	1.4	0.14	79	33	240	15	602	0	360	25	0.3	8.6	0.43	1090	0	60	5.7	1600	7.2
154-066-36DDC	97-100	09/26/73	31	1.8	0.06	66	28	280	9.6	599	0	360	29	0.3	0.2	0.95	1100	0	68	7.3		6.5
154-066-36DDC	97-100	07/30/86	33	1.6	0.06	63	29	270	12	594	4	330	27	0.3	8.1	1.6	1070	0	67	7		9
154-067-03CCC	97-103	09/23/69	30	0.92	0.05	169	46.0	212	12	476	0	591	62	0.3	1.0	0.6	1360	220	42	3.7		7
154-067-03CCC	97-103	07/28/81	29	1.3	0.73	190	48	250	15	577	0	610	65	0.2	1.0	0.55	1490	200	44	4.2	2050	7
154-067-03CCC	97-103	06/23/87	28	3	0.58	190	53	210	16	499	0	600	62	0.2	6.7	0.36	1420	280	39	3.5	2150	9
154-067-11DDD1	75-80	05/09/68	28	0	0.58	82	19	17	3.8	308	0	71	6.4	1.6	0	0.15	381	32	11	0.4	490	6.7
154-067-11DDD1	75-80	05/09/68	28	0.22	0.59	87.0	22	23	4.2	317	0	89.0	8.9	1.1	0	0.05	419	46	14	0.6	530	6.7
154-067-11DDD1	75-80	06/25/74	18	1.2	0.46	77	21	13	3.2	300	0	61	4.6	0.2	1.0	0	349	36	9	0.3		7
154-067-11DDD1	75-80	09/24/86	28	1.0	0.55	93.0	26	11	4	271	0	140	6.7	0.1	1.0	0.01	444	120	7	0.3	680	7.5
154-067-12BBC1	92-97	10/28/87	28	0.03	0.04	20	25	540	9.1	580	0	79	500	0.8	1.0	1.3	1490	0	88	19	2650	8
154-067-12BBC2	33-38	10/28/88	14	0.02	0.21	77	31	390.0	15	338	5	680	110	0.4	3.8	0.59	1490	34	71	9.5	2200	11
154-067-12BBC3	3-13	10/28/87	19	1.3	1.7	430.0	290	460.0	26	327	0	2300	470	0.2	1.0	0.28	4160	2000	30	4.2	4900	11
154-067-12BBC3	3-13	06/01/88	23	2.5	1.4	440.0	280	450.0	23	451.0	0	2100	450.0	0.3	1.0	0.3	3990	1900	30	4.1	5260	7
154-067-15BBB	147-153	05/22/70	32	0.9	0.05	119	34	563	13	622	0	906.0	188	0.2	0.6	1.1	2160	0	73	12	3200	7.2
154-067-15BBB	147-153	07/30/86	27	1.7	0.46	120	38	550	16	605	0	880.0	180	0.1	0	0.84	2110	0	72	11		10.0
154-067-26BAA	137-143	05/25/70	29	0.68	0.14	128	28	524	12	603	0	822.0	170	0.1	1.0	0.59	2010	0	72	11	2800	7.2
154-067-26BAA	137-143	07/30/86	30	0.86	0.64	140	39	510	16	591	0	840.0	170	0.2	8.1	1.5	2050	26	68	9.8		9
154-067-26BAA2	8-18	10/28/87	21	0.22	0.34	460.0	3800	2100	87.0	925.0	0	19000	960.0	0.3	1.0	0.41	26900	16000	21	7	14200	9
154-067-32AAA	47-52	10/21/86	21	0.07	2.4	450.0	100.0	84	16	373.0	0	1200	19	0.1	1.0	0.15	2100	1200	11	0.9	2800	9
154-067-35ADD3	125-130	09/29/87	31	0.51	0.36	97.0	26	420.0	15	594	0	690.0	100.0	0.2	0.1	0.73	1670	0	71	9.7	2500	8.7
154-067-35ADD4	75-80	09/29/87	30	0.57	0.43	150	36	320	15	555	0	640	100.0	0.1	1.0	0.68	1570	68	56	6.1	2300	8.4
154-067-35ADD5	34-39	10/28/87	21	1.5	1.3	620	160	920.0	17	345.0	0											

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)														Hardness CaCO <sub>3</sub>	as NCH	% Na	SAR	Spec Cond (μmho)	Temp (°C)	pH
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>	B							
155-062-06DDD	177-183	08/07/73	22	0.1	0.89	160	49	660	20	398	0	370	1000	0.2	12	0.6	2490	270	70	12	4050	8	
155-062-18AAA2	138-141	09/12/74	18	0.08	0.24	66	18	340	9.9	620	0	450	30	0.2	1	0.87	1240	0	75	9.6	1830	6.5	
155-063-22CCC	62-71	09/12/74	17	0.06	2	520	170	330	16	510	0	2100	97	0.1	2	0.2	3510	1600	26	3.2	3500	6	
155-063-25AAA	220-223	08/09/73	26	0.36	1.5	210	67	520	19	390	0	310	960	0.2	11	1.6	2320	480	58	8	3650	6	
155-063-25AAA	220-223	07/22/86	24	2.7	1.3	210	60	540	21	331	0	280	1000	0.1	0	0.75	2300	500	60	8.5	3500	12	
155-064-03AAA	77-80	08/15/73	25	0.33	0.72	130	30	390	13	479	0	630	180	0.4	0.5	1.1	1640	57	65	8	2290	6.5	
155-064-03AAA	77-80	06/24/87	27	0.71	0.67	130	31	390	18	476	0	620	180	0.1	7.2	0.74	1640	62	64	8	2500	7	
155-065-08DDD	47-50	08/17/73	26	1	0.97	150	38	140	9.2	455	0	430	17	0.4	0.1	0.69	1040	160	36	2.6	1390	6	
155-065-08DDD	47-50	07/23/86	26	1.7	0.99	150	42	140	13	405	0	460	16	0.1	0.3	0.32	1050	220	35	2.6	1485	13	
155-065-18AAA	26-31	07/10/86	27	0.03	0.43	110	36	12	4.9	436	0	36	2.7	0.2	1	0.09	445	65	6	0.3	780	11	
155-065-18AAA	26-31	10/21/86	27	0.2	0.51	110	36	15	5.5	442	0	54	3.1	0.3	0.9	0.09	471	61	7	0.3	880	9	
155-065-18ADA	0-75	05/23/73	26	0.42	0.16	21	9.1	541	7.3	671	0	616	73	0.4	6.3	2	1630	0	92	25			
155-065-30BBB	98-101	08/21/74	22	3	0.42	160	56	200	10	510	0	590	51	0.4	1	0.35	1350	210	40	3.5	1800	6.5	
155-065-30BBB	98-101	07/23/86	30	3.1	0.43	150	51	190	14	480	0	560	41	0.2	7.6	0.47	1280	190	41	3.4	1640	13	
155-065-32BBB	13-18	10/29/86	29	0.29	0.3	490	2900	1900	36	750	0	17200	220	0.2	12	0.34	23200	12500	24	7.2	12800	9	
155-065-35DDD	13-18	10/29/86	32	0.04	0.05	160	73	43	24	644	0	280	4.3	0.2	0	0.16	934	170	11	0.7	1360	9	
155-065-36CAB	31.5-36.5	10/29/86	29	0.74	0.99	190	58	30	12	445	0	430	25	0.1	1	0.09	996	350	8	0.5	1380	9	
155-065-36CAB	31.5-36.5	09/30/87	27	0.57	1	180	56	32	12	368	0	410	20	0.1	2.5	0.07	922	380	9	0.5	1380	7.2	
155-065-36CAB2	73-78	09/30/87	26	0.51	1.4	240	55	210	15	522	0	820	42	0.1	1	0.22	1670	400	35	3.2	2200	6.9	
155-065-36CAB3	46-51	09/30/87	25	0.02	0.86	150	39	63	12	412	0	280	21	0.1	4.8	0.1	799	200	20	1.2	1190	6.9	
155-066-04CCC	138-141	08/22/74	22	1.7	0.08	84	29	250	8.7	520	0	320	92	0.4	6.1	0.39	1070	0	62	6	1600	6.5	
155-066-09AAA	118-121	08/30/74	17	0.25	0.18	120	44	220	11	500	0	410	110	0.2	1	0.2	1180	70	49	4.4	1800	6.5	
155-066-09AAA	118-121	07/15/81	30	0.41	0.15	110	43	240	16	521	0	420	110	0.3	1	0.74	1230	23	53	4.9	1790	8	
155-066-09AAA	118-121	07/23/86	26	2.2	0.14	110	44	230	14	468	0	410	110	0.2	0.4	0.37	1180	72	51	4.7	14		
155-066-11AAA	281-284	09/04/74	19	1.5	0.1	56	22	860	14	650	0	130	1000	0.3	1	2	2430	0	88	25	5000	7.5	
155-066-31DDD	0-103	08/15/73	31	0.38	0.4	63	20	310	9.1	558	0	410	47	0.5	2.5	0.69	1170	0	73	8.7	1660	6	
155-066-33BBC	29-34	10/29/86	28	0.56	2.5	540	170	230	21	503	0	1700	230	0.1	1	0.47	3170	1600	19	2.2	3700	9	
155-066-34CCC	118-121	08/21/74	19	5.8	0.48	220	66	87	9.8	450	0	590	14	0.1	0	0.2	1230	450	19	1.3	1620	7	
155-066-34CCC	118-121	07/24/86	33	5.2	0.49	220	71	84	12	449	0	640	13	0.2	1	0.3	1300	470	18	1.3	1530	10	

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)														Hardness as CaCO <sub>3</sub>	% Na	SAR	Spec Cond (μmho)	Temp (°C)	pH
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>	B						
156-061-34AA	15-18	07/21/71	25	0	0.01	34	20	10	1.7	198	0	31	1.2	0.3	2.5	0.09	224	4	12	0.3	9	
156-061-35AA2	11-14	06/17/71	26	0.03	0.17	91	31	8	5	335	0	83	3.2	0.4	1	0	414	78	5	0.2	675	5
156-062-17B	0-0	00/00/72	3.5	0.1	0.05	39	13	25	8.6	169	0	67	4.1	0.1	0.4	0.07	244	13	25	0.9		
156-062-17B	0-0	05/01/73	15	0.18	0.08	76	34	62	19	293	0	204	24	0.1	1	0.06	580	88	28	1.5		6
156-062-17B	0-0	10/05/73	18	0.15	0.02	31	35	130	13	255	0	240	45	0.1	8.7	0.04	648	11	54	3.8		
156-062-17B	0-0	05/23/74	15	0.53	0.01	36	12	28	5	152	0	70	5.5	0.1	2	0.09	250	16	29	1	8.5	
156-062-17B	0-0	04/20/75	4.3	0.17	0.01	42	18	23	9.8	134	0	93	13	0	12	0.98	283	70	21	0.7	460	6.5
156-062-17B	0-0	06/12/75	13	0.17	0.52	83	40	74	12	362	0	210	25	0.1	1.3	0	637	73	29	1.7	1000	20
156-062-17B	0-0	04/08/76	19	0.12	0.02	34	13	32	6.4	137	0	83	7	0.1	0.1	0.2	262	27	32	1.2	410	11
156-062-17B	0-0	08/05/76	33	0.08	0.08	76	34	89	11	451	10	110	29	0	1	0	618	0	36	2.1	950	22
156-062-17B	0-0	04/06/77	12	0.12	0.08	68	24	43	13	140	0	220	22	0.1	6.8	0.04	479	160	25	1.1	710	2
156-062-17B	0-0	04/10/78	23	0.06	0	28	9.7	24	6.4	120	0	53	6.1	0.1	9.5	0.14	220	12	31	1	370	4
156-062-17B	0-0	04/22/79	11	0.28	0.05	20	7.8	15	4.5	72	0	51	7.1	0.1	7.7	0	161	23	27	0.7	290	5.5
156-062-17B	0-0	04/30/79	16	0	0.01	34	13	19	5.9	105	0	59	16	0.1	11	0.09	227	54	22	0.7	370	6
156-062-17B	0-0	07/19/79	5.1	0.32	0.1	84	36	77	6.8	400	0	170	19	0.2	1	0.03	598	32	31	1.8	960	22
156-062-17B	0-0	04/08/80	7.7	0.03	0.14	51	20	34	15	89	0	190	18	0.1	9	0.03	391	130	24	1	605	1
156-062-17B	0-0	04/29/80	15	0.05	0.08	86	35	84	13	285	0	270	40	0.2	0.6	0.06	685	130	33	1.9	1060	17
156-062-17B	0-0	03/04/81	17	0.06	0.04	37	14	34	11	194	0	59	16	0.1	3.4	0.16	289	0	31	1.2	462	8
156-062-17B	0-0	04/15/82	15	0.06	0.06	36	15	35	10	134	0	100	12	0.1	9.9	0.03	300	42	32	1.2	470	9
156-062-17B	0-0	07/13/82	15	0.05	0.17	63	34	99	12	323	0	200	37	0.2	1	0.05	622	33	41	2.5	975	20
156-062-17B	0-0	03/27/83	22	0.14	0.89	49	19	30	27	252	0	80	10	0.1	1	0.09	363	0	22	0.9	590	7.5
156-062-17B	0-0	03/30/84	12	0.05	0.31	41	18	48	13	140	0	140	20	0.1	5.5	0.06	367	62	35	1.6	562	4
156-062-17B	0-0	08/09/84	7.8	0.02	1.1	62	46	83	24	320	0	230	28	0.2	1	0.06	641	82	33	2	917	23
156-062-17B	0-0	03/26/85	17	0.04	0.01	39	13	21	12	170	1	70	8.1	0.1	2.6	0.05	268	10	21	0.8	420	4.5
156-062-17B	0-0	06/11/85	2.7	0.03	0.18	140	100	150	31	251	0	830	49	0.2	1	0.09	1430	560	29	2.4	1880	14
156-062-17B	0-0	03/26/86	16	0.14	0.16	33	14	40	12	149	0	89	12	0.1	4.4	0.05	294	18	36	1.5	488	2.5
156-062-17B	0-0	09/15/86	10	0.02	0.08	71	38	110	16	442	0	170	39	0.1	1	0.07	673	0	40	2.6	1100	10
156-062-17B	0-0	04/08/87	3.9	0.06	0.03	38	16	41	9	138	0	130	20	0.3	8.3	0.09	335	48	34	1.4	570	10.5
156-062-17B	0-0	04/15/87	20	0.04	0.01	54	22	48	12	182	0	170	19	0.1	4	0.06	439	76	30	1.4	650	10.5
156-062-17B	0-0	05/07/87	2.7	0.04	0.06	86	38	72	18	313	0	240	26	0.2	1	0.08	638	110	28	1.6	970	15.5
156-062-17B	0-0	07/28/87	17	0.02	0.01	47	17	26	9.8	174	0	110	7	0.1	1	0.07	321	45	22	0.8	488	28
156-062-17B	0-0	04/06/88	24	0.04	0.02	59	23	43	18	205	0	170	22	0.1	1	0.13	461	74	26	1.2	695	6
156-062-17B	0-0	04/20/88	20	0.04	0.01	79	32	69	17	270	0	250	26	0.1	1	0.14	627	110	30	1.6	950	6
156-062-17B	0-0	06/01/88	7.6	0.02	0.34	85	45	90	18	265	0	360	34	0.2	1	0.14	772	180	32	2	1180	25
156-062-17B	0-0	04/09/89	9.3	0.06	0.03	26	8.5	11	6.5	77	0	60	5.3	0.1	0.7	0.02	166	37	18	0.5	275	0
156-062-17B	0-0	04/21/89	21	0.04	0.01	38	13	22	12	142	0	78	6.9	0.1	2.5	0.02	264	32	23	0.8	430	12
156-062-17B	0-0	05/11/89	32	0.03	0.03	73	25	36	16	256	0	150	12	0.2	1	0.06	471	75	20	0.9	716	15.5
156-062-17B	0-0	04/02/90	7.5	0.12	0.1	26	7.5	6	10	79	0	50	8.8	0.1	2.2	0.03	157	32	11	0.3	258	0.5
156-062-20BBB	48-58	08/03/73	26	0	0.07	15	7.2	250	5.5	631	0	98	5.9	0.5	3.1	1.2	723	0	88	13	1100	5.5
156-062-20BBB	48-58	09/24/86	29	0.03	0.08	14	5	240	5.8	602	14	93	1.3	0.3	3.9	0.95	704	0	89	14	1110	11.5
156-063-10CDD	78-81	09/05/74	17	0.49	0.5	110	30	320	8.8	420	0	320	320	0.2	2.8	0.51	1340	56	63	6.9	2200	6.5
156-064-19BCB	0-0	04/05/80	14	0.03	0.05	43	18	14	6.8	78	0	110	13	0.1	30	0	289	120	14	0.5	458	4
156-064-19BCB	0-0	04/10/80	23	0.03	0.01	72	27	28	11	172	0	180	21	0.2	20	0.19	469	150	17	0.7	732	2
156-064-19BCB	0-0	09/25/80	36	0.04	0	66	26	20	8.1	263	0	93	15	0.1	1	0.03	396	54	13	0.5	580	8.5
156-064-19BCB	0-0	10/22/80	25	0.04	0.01	75	32	25	8.9	303	0	110	16	0.1	1	0.23	443	71	14	0.6	678	4
156-064-19BCB	0-0	04/27/81	17	0.08	0.01	31	13	6.9	11	133	0	29	9	0.1	5.1	0.13	189	21	9	0.3	300	0.5
156-064-19BCB	0-0	04/09/81	44	0.01	0.01	62	26	18	9.6	264	0	76	13	0.1	1	0.23	380	43	13	0.5	608	8.4
156-064-19BCB	0-0	05/27/81	15	0.08	0	84	44	39	17	361	0	170	29	0.1	1	0.1	577	94	17	0.9	870	20
156-064-19BCB	0-0	07/06/81	18	0.02	0.02	82	45	49	16	278	0	250	33	0.2	1	0.13	632	160	21	1.1	895	29.5
156-064-19BCB	0-0	04/15/82	20	0.03	0	43	15	12	13	132	0	76	7.5	0.1	9.6	0.03	262	61	12	0.4	405	7.7
156-064-19BCB	0-0	05/25/82	5.9	0.03	0.02	97	39	37	16	293	0	220	22	0.2	1	0.04	583	160	16	0.8	760	19
156-064-19BCB	0-0	07/13/82	20	0.11	0.02	50	16	15	11	181	0	64	9.2	0.1	1	0.55	276	43	14	0.5	440	22.5
156-064-19BCB	0-0	08/29/82	10	0.28	0.01	71	29	18	16	354	0	55	9.8	0.2	1.6	0.1	385	7	11	0.5	750	18
156-064-19BCB	0-0	03/30/83	19	0.06	0.18	46	18	9.7	22	224	0	53	5	0.1	1	0.07	284	6	9	0.3	460	7.3
156-064-19BCB	0-0	09/08/83	35	0.02	0.01	55	19															

Location	Screened Interval (ft)	Date Sampled	(milligrams per liter)													Hardness CaCO <sub>3</sub>	as NCH	‰ Na	SAR	Spec Cond (μmho)	Temp (°C)	pH		
			SiO <sub>2</sub>	Fe	Mn	Ca	Mg	Na	K	HCO <sub>3</sub>	CO <sub>3</sub>	SO <sub>4</sub>	Cl	F	NO <sub>3</sub>									
156-064-19BCB	0-0	04/20/88	17	0.03	0.01	96	37	31	19	311	0	200	22	0.2	0.5	0.12	576	140	14	0.7	868	11	8.8	
156-064-19BCB	0-0	06/02/88	20	0.03	0.01	53	18	18	13	178	0	100	15	0.2	1	0.1	326	60	15	0.5	528	21.5	7.6	
156-064-19BCB	0-0	06/22/88	26	0.02	0.03	72	28	18	15	333	0	64	15	0.2	1.9	0.03	404	22	11	0.5	505	22.5	8	
156-064-19BCB	0-0	07/13/88	14	0.27	0.03	25	8.5	8.5	6.8	129	0	33	5.6	0.2	6.7	0.05	173	0	15	0.4	250	24.5	7.9	
156-064-19BCB	0-0	04/07/89	15	0.31	0.02	13	4.5	6	6.2	42	0	17	3.2	0.1	27	0.02	113	17	18	0.4	155	0	7	
156-064-19BCB	0-0	04/15/89	17	0.04	0.01	34	13	14	10	98	0	84	12	0.1	11	0.02	243	58	17	0.5	375	6	6.8	
156-064-19BCB	0-0	05/04/89	33	0.02	0.01	72	25	18	15	238	0	110	10	0.2	1	0.02	401	88	11	0.5	630	15.6	7.7	
156-064-19BCB	0-0	04/10/90	19	0.41	0.04	42	15	15	13	135	0	78	13	0.1	1	0.03	264	56	15	0.5	445	2.5	7.9	
156-064-19BCB	0-0	04/10/90	19	0.17	0.03	41	15	14	13	133	0	80	13	0.1	1	0.03	262	55	14	0.5	445	2.5	7.9	
156-064-19BCB	0-0	04/19/90	27	0.04	0.01	46	16	13	13	193	0	58	8.7	0.1	1	0.04	278	23	13	0.4	455	8.5	8.2	
156-064-19BCB	0-0	06/20/90	22	0.02	0.01	48	22	19	9.4	228	0	65	12	0.2	1	0.05	311	24	16	0.6	512	24	8.4	
156-064-33CCC	0-0	04/08/80	15	0.05	0.66	64	29	41	15	112	0	220	26	0.1	39	0.23	506	190	23	1.1	762	1	7.8	
156-064-33CCC	0-0	05/01/80	13	0.04	0.37	150	96	120	27	478	0	590	47	0.2	1	0.1	1280	380	25	1.9	1720	26.5	8.3	
156-064-33CCC	0-0	06/10/80	14	0.01	0.64	100	58	78	21	307	0	380	30	0.2	1	0.03	835	240	25	1.5	1220	28	8.2	
156-064-33CCC	0-0	09/25/80	34	0.04	0	78	35	54	13	248	0	220	31	0.1	1	0.1	589	140	25	1.3	848	8	7.8	
156-064-33CCC	0-0	10/22/80	21	0.06	0.02	67	32	48	9.2	179	0	230	25	0.1	1	0.26	523	150	25	1.2	788	4	7.7	
156-064-33CCC	0-0	02/26/81	18	0.1	0.02	31	10	12	11	133	0	37	12	0	3.3	0.1	202	11	16	0.5	330	0.5	7.1	
156-064-33CCC	0-0	04/09/81	27	0.04	0.01	52	20	12	11	224	0	48	11	0.1	1	0.03	294	27	10	0.4	510	8.2		
156-064-33CCC	0-0	05/27/81	25	0.04	0.06	83	42	71	27	351	0	250	25	0.1	1	0.06	697	92	27	1.6	985	18	8.3	
156-064-33CCC	0-0	07/06/81	9	0.03	0.2	38	33	73	21	220	0	200	23	0.3	1	0.1	507	50	38	2.1	760	27.5	8.6	
156-064-33CCC	0-0	04/21/82	20	0.01	0	47	18	17	14	161	0	89	8.8	0.2	5.3	0.03	299	60	15	0.5	462	13	8.3	
156-064-33CCC	0-0	05/25/82	12	0.02	0.01	50	31	55	19	256	0	160	18	0.2	1	0.05	472	43	30	1.5	700	17	8	
156-064-33CCC	0-0	07/13/82	8.5	0.04	0.06	47	25	45	16	239	0	120	20	0.2	1	0.1	401	25	29	1.3	650	23.5	7.9	
156-064-33CCC	0-0	08/29/82	19	0.04	0.08	53	32	62	21	278	0	170	22	0.3	1.9	0.1	518	36	32	1.7	860	16.5	7.8	
156-064-33CCC	0-0	04/21/83	18	0.02	0.01	53	30	55	20	274	0	160	19	0.1	1	0.08	491	31	30	1.5	768	9.5	8.1	
156-064-33CCC	0-0	05/10/84	12	0.03	0.04	46	31	64	19	253	0	150	21	0.1	1.7	0.08	470	35	34	1.8	710	10	8.2	
156-064-33CCC	0-0	04/04/85	9.3	0.02	0.03	37	21	40	14	170	0	120	17	0.1	1	0.04	343	40	31	1.3	520	4.5	8.4	
156-065-21AA	0-0	03/24/86	20	0.09	0.02	38	11	13	13	135	0	50	5.9	0.1	8.4	0.04	227	30	15	0.5	360	2	7.2	
156-065-21AA	0-0	04/08/87	20	0.04	0.01	39	13	15	9.5	121	0	91	11	0.1	13	0.1	272	52	17	0.5	390	13	8.01	
156-065-21AA	0-0	04/05/88	34	0.03	0.02	92	29	28	19	226	0	210	15	0.1	7.5	0.19	346	160	14	0.6	775	8.5	8.7	
156-065-22DDD	57-60	08/10/73	26	0	0.22	63	15	290	10	442	0	210	210	0.3	3.8	0.78	1050	0	73	8.5	1590	7		
156-065-22DDD	57-60	07/22/86	27	1.5	0.58	85	28	290	21	540	0	310	150	0.1	4.9	0.67	1180	0	64	6.9	1520	13		
156-066-11DDD	57-60	08/14/73	27	1.9	0.08	62	26	430	9.8	631	0	420	170	0.5	4.4	1.7	1460	0	77	12	2025	6		
156-066-11DDD	57-60	07/23/86	27	0.27	0.48	50	15	280	13	425	0	160	210	0.1	1	1.9	966	0	75	8.8	1580	14		
156-066-11DDD	57-60	06/01/88	24	1.6	0.4	75	26	310	20	545	0	310	160	0.2	4.9	0.71	1200	0	68	7.9	2140	7		
156-066-31DDD	100-103	07/23/86	31	1.2	0.48	87	32	230	47	530	0	380	47	0.1	1.8	0.35	1120	0	55	5.3	1675	12		
156-066-31DDD	100-103	06/23/87	29	1.4	0.3	72	32	240	50	508	0	360	49	0.2	27	0.24	1110	0	58	5.9	1750	8		
156-066-31DDD	100-103	06/01/88	28	1.1	0.25	77	33	240	48	540	0	370	51	0.3	17	0.43	1130	0	57	5.7	1880	8		
156-066-34BBB	406-409	08/14/73	30	0.46	0.17	52	15	640	13	494	0	190	730	0.5	0.7	1.1	1920	0	87	20		7.5		
156-068-30BCC	0-0	04/29/58	0.8			154	124	412.0	15.5	312	0	155	338	0	0.9	1.0		557	151	10	0.5			
156-068-31ADC1	0-0	03/21/77	8.2	0.23	0.02	18	8.5	1500	8.1	868.0	17	1100	1000.0	4.6	1.0	0.71	4100	0	97	73	6100			
156-068-31ADC2	0-0	10/05/67	8	3.4		21	6.2	1500	8.6	830.0	21	1230	1020	4	1.0	4.7	4240	0	97	74		19		
156-068-31ADC2	0-0	03/21/77	8.8	0.23	0.02	22	11	1500	8.4	856.0	10.0	1200	1000.0	4.6	1.0	0.6	4190	0	97	65	7000	20		
156-068-31BDD	0-0	05/14/69	24	4.8	0.33	110	39	23	5	347.0	0	172	8.1	0	0.1	0.04	557	151	10	0.5			7.2	

**Table 4 -- Dissolved chemical constituents in water -- their effects upon usability and recommended concentration limits for domestic and municipal water supplies in North Dakota.**

Constituent or Parameter	Effects of dissolved constituents on water use	Suggested limits for drinking water in North Dakota	U.S. Public Health Service recommended limits for drinking water <sup>2</sup>	Constituent or Parameter	Effects of dissolved constituents on water use	Suggested limits for drinking water in North Dakota	U.S. Public Health Service recommended limits for drinking water <sup>2</sup>
Silica ( $\text{SiO}_2$ )	No physiological significance.			Chloride (Cl)	Over 250 mg/l may impart a salty taste, greatly excessive concentrations may be physiologically harmful. Humans and animals may adapt to higher concentrations.		250 mg/l
Iron (Fe)	Concentrations over 0.1 mg/l will cause staining of fixtures. Over 0.5 mg/l may impart taste and colors to food and drink.		0.3 mg/l	Fluoride (F)	Fluoride helps prevent tooth decay within specified limits. Higher concentrations cause mottled teeth.	Limits of 0.9 mg/l to 1.5 mg/l	Recommended limits depend on average of daily temperatures. Limits range from 0.6 mg/l at 32°C. to 1.7 mg/l at 10°C.
Manganese (Mn)	Produces black staining when present in amounts exceeding 0.05 mg/l.		0.05 mg/l	Nitrate ( $\text{NO}_3$ )	Over 45 mg/l can be toxic to infants. Larger concentrations can be tolerated by adults. More than 200 mg/l may have a deleterious effect on livestock health.		45 mg/l
Calcium (Ca) and Magnesium (Mg)	Calcium and magnesium are the primary causes of hardness. High concentrations may have a laxative effect on persons not accustomed to this type of water.			Boron (B)	No physiological significance. Greater than 2.0 mg/l may be detrimental to many plants.		
Sodium (Na)	No physiological significance except for people on salt-free diets. Does have an effect on the irrigation usage of water.			Total dissolved solids	Persons may become accustomed to water containing 2,000 mg/l or more dissolved solids.	0-500 mg/l - low 500-1400 mg/l average 1400-2500 mg/l high over 2500 mg/l very high	500 mg/l
Potassium (K)	Small amounts of potassium are essential to plant and animal nutrition.			Hardness (as $\text{CaCO}_3$ )	Increases soap consumption, but can be removed by a water-softening system.	0-200 mg/l - low 200-300 mg/l average 300-450 mg/l high over 450 mg/l very high	
Bicarbonate ( $\text{HCO}_3$ ) and Carbonate ( $\text{CO}_3$ )	No definite significance, but high bicarbonate content will impart a flat taste to water.			pH	Should be between 6.0 and 9.0 for domestic consumption.		
Sulfate ( $\text{SO}_4$ )	Combines with Calcium to form scale. More than 500 mg/l tastes bitter and may be a laxative	0-300 mg/l - low 300-700 mg/l - high over 700 mg/l - very high	250 mg/l	Specific Conductance	An electrical indication of total dissolved solids measured in micromhos per Centimeter at 25°C. Used primarily for irrigation analyses.		
Percent Sodium and Sodium Adsorption Ratio (SAR)	Indicate the sodium hazard of irrigation water.						

1. Schmid, R.W., 1965, Water Quality Explanation: North Dakota State Water Commission, unpublished report, File No. 989.
2. U.S. Public Health Service, 1962, Public Health Service Drinking Water Standards: U.S. Public Health Service, Pub. No. 956, 61 p.