

GROUND-WATER BASIC DATA
for
DICKEY AND LA MOURE COUNTIES
NORTH DAKOTA

by
C. A. Armstrong
and
S. P. Luttrell
U.S. Geological Survey

COUNTY GROUND-WATER STUDIES 28 — PART II
North Dakota State Water Commission
Vernon Fahy, State Engineer

BULLETIN 70 — PART II
North Dakota Geological Survey
Lee Gerhard, Acting State Geologist

Prepared by the U.S. Geological Survey
in cooperation with the North Dakota Geological Survey,
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INTRODUCTION

The geology and ground-water investigation in Dickey and LaMoure Counties (fig. 1) was made cooperatively by the U.S. Geological Survey (USGS), North Dakota State Water Commission (NDSWC), North Dakota Geological Survey (NDGS), U.S. Bureau of Reclamation (USBR), and Dickey and LaMoure Counties Water Management Districts. The results of the investigation will be published in four separate parts. Part I is an interpretive report describing the geology of the study area. Part II, a compilation of the ground-water basic data, makes available geologic and hydrologic data collected during the county investigation and functions as a reference for the other reports. Part III is an interpretive report describing the ground-water resources. Part IV describes a digital model of the ground-water flow system in the Oakes area.

The stratigraphic nomenclature used in this report is that of the North Dakota Geological Survey and does not necessarily follow the usage of the U.S. Geological Survey.

The following table may be used to convert English units to the SI (International System) of metric units.

<u>Multiply English unit</u>	<u>By</u>	<u>To obtain SI unit</u>
Inch (in)	25.4	millimeter (mm)
Foot (ft)	.3048	meter (m)
Mile (mi)	1.609	kilometer (km)
Acre	.4047	hectare (ha)

Purpose

The purpose of the investigation was to provide detailed geologic and hydrologic information needed for the orderly development of water supplies for municipal, domestic, livestock, irrigation, industrial, and similar uses. Specifically, the objectives were to: (1) determine the location, extent, and nature of the major aquifers; (2) estimate the quantities of water stored in the aquifers; (3) estimate the potential

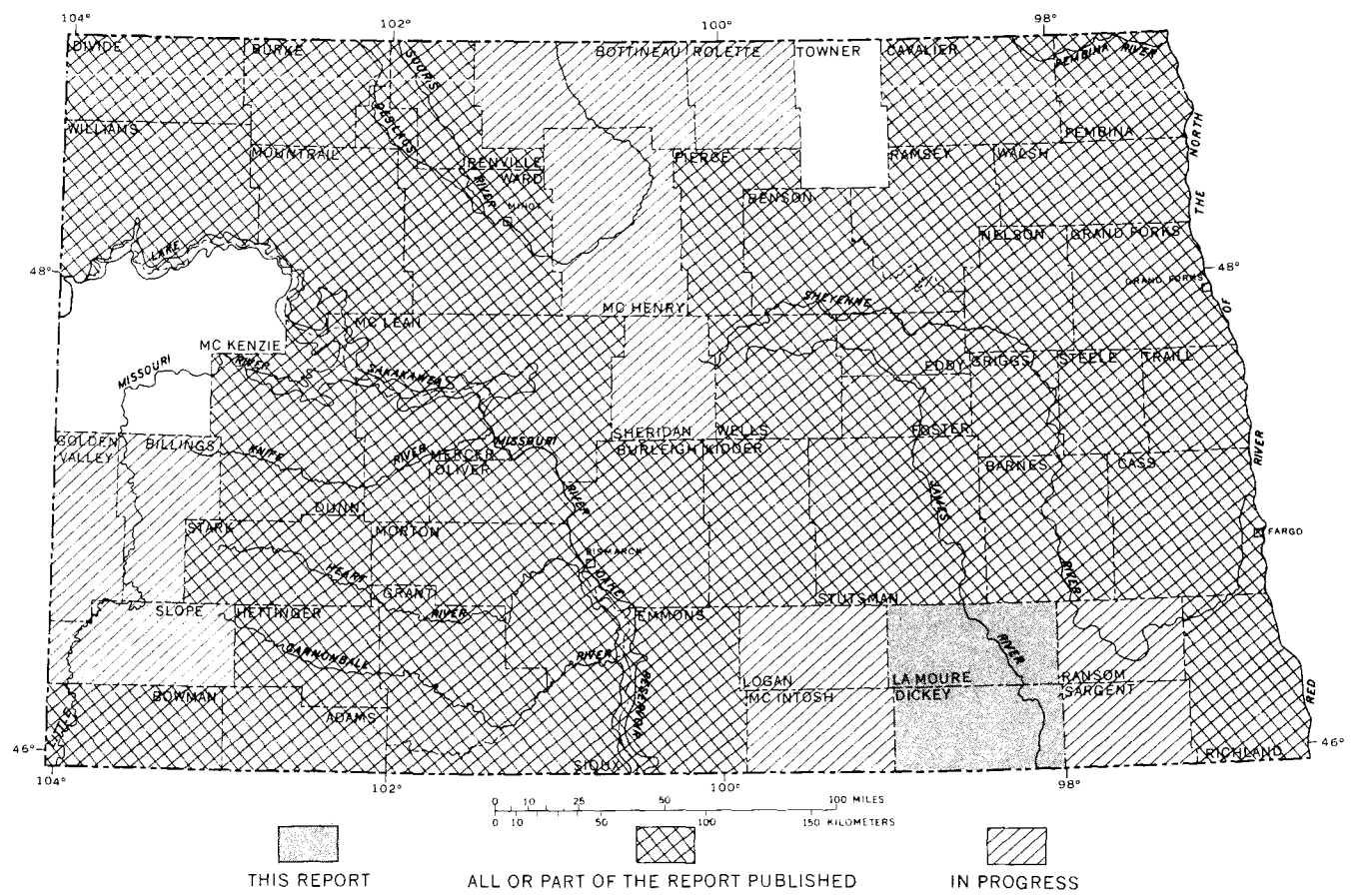


FIGURE 1.—County ground-water studies in North Dakota.

yields of wells tapping the major aquifers; (4) determine the chemical quality of the ground water; (5) evaluate the occurrence and movement of ground water, including the sources of recharge and discharge; and (6) estimate the water use.

Well- and Location-Numbering System

The wells and test holes in the tables are numbered according to a system of land survey in use by the U.S. Bureau of Land Management and the North Dakota district of the U.S. Geological Survey. The U.S. Bureau of Land Management system is illustrated in figure 2. 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. The 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 (4-ha) tract). For example, well 132-061-15DAA is in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 15, T. 132 N., R. 061 W. Consecutive terminal numerals are added if more than one well or test hole is recorded within a 10-acre (4-ha) tract. The location of each well and test hole in the tables is shown on plate 1 (in pocket).

Acknowledgments

The author is indebted to the residents and officials of Dickey and LaMoure Counties who furnished essential information on wells and permitted measurements to be made and samples to be taken. Particular recognition is due to the following North Dakota State Water Commission personnel: C. E. Naplin, G. L. Sunderland, and R. L. Cline for logging of test holes, G. O. Muri for chemical analysis of water samples, and M. O. Lindvig for scheduling of drilling activities. Thanks are due to the various well drillers and drilling companies that furnished drillers' logs and other information in this report.

EXPLANATION OF TABLES AND METHODS OF DATA COLLECTION

The data in this report were collected chiefly between 1973 and 1976 and are listed in tables 1-7. The points of collection are shown on plate 1. The data consist of the following: (1) Geologic and hydrologic

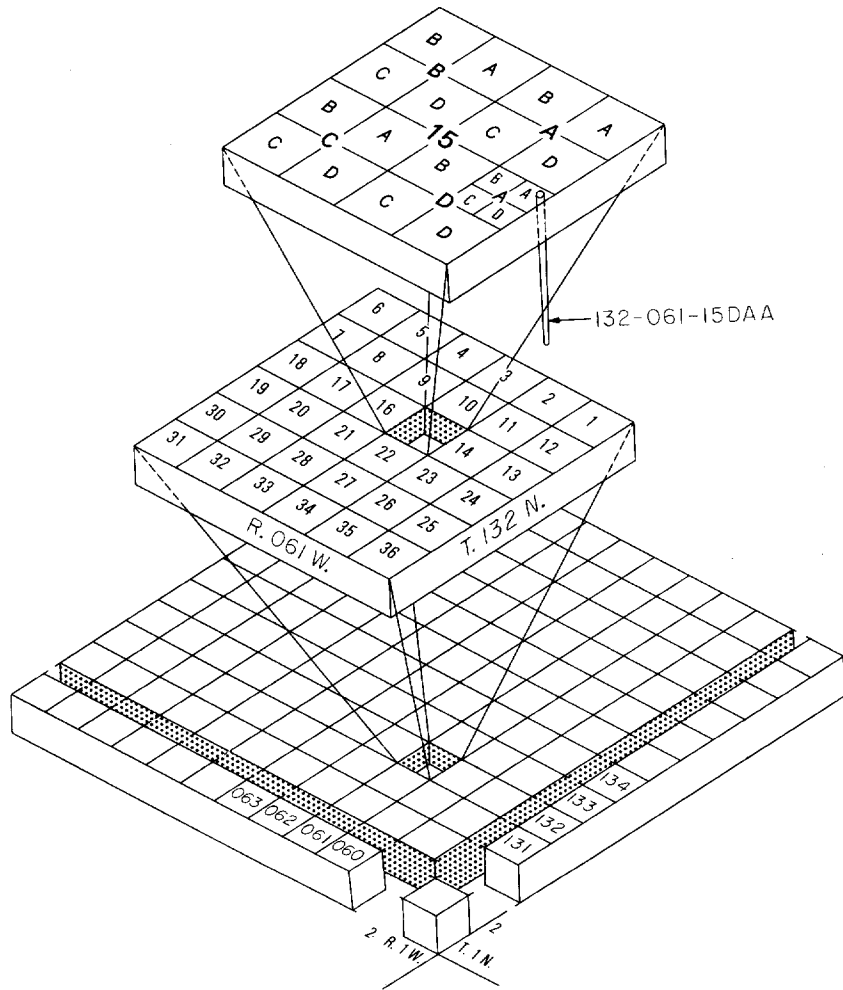


FIGURE 2.—System of numbering wells and test holes.

records for 1,473 wells and test holes; (2) water-level measurements in 174 observation wells; (3) lithologic and geophysical logs of 800 test holes and wells; (4) 442 chemical analyses of ground water; (5) 9 chemical analyses of ground water for minor elements; and (6) 11 particle-size analyses. The data may be used in evaluating geologic and ground-water conditions in Dickey and LaMoure Counties. For example, a person considering the construction of a new well can locate the proposed site on plate 1. Depth, water quality, lithology, and water level of nearby wells and test holes tapping the different aquifers can be determined from the tables. However, use of the data as a guide to conditions at different sites should be made with caution because of the lenticular character of the water-bearing rocks and varying water quality in some aquifers.

Records of Wells and Test Holes

Records of selected wells and test holes are given in table 1. Well depth is the depth of casing for open-bottom wells or the base of the well screen. Many test holes drilled by the North Dakota State Water Commission were converted to observation wells for periodic water-level measurements and water-quality sampling. At some sites two or three observation wells were drilled in order to obtain water levels and water samples from several aquifers. The North Dakota State Water Commission observation wells were constructed of 1^o-inch (32-mm) plastic casing with 3- or 6-foot (1- or 2-m) screens, 2-inch (51-mm) steel casing with 3-foot (1-m) screens, or 6-inch (152-mm) plastic casing with 5-foot (1.5-m) screens. The observation wells were developed by backwashing and were pumped a minimum of 8 hours for development before collection of water samples for analysis. The U.S. Bureau of Reclamation observation wells generally were constructed of slotted 3-inch (76-mm) downspout and were not developed.

Water Levels in Selected Wells

Table 2 gives monthly and intermittent water levels in selected wells, in feet below or (+) above land surface, that tap the major aquifers in Dickey and LaMoure Counties. Water-level measurements were

made beginning in late 1973 and extending through December 1976. Some measurements made by U.S. Bureau of Reclamation personnel from February 1972 through August 1976 are also included. Measurements will continue to be made in several wells as part of the statewide observation-well network to monitor changes in water levels as the ground-water resources of the area are developed.

Logs of Wells and Test Holes

Logs collected from water-well drillers and other sources and logs of test holes drilled as part of this project are included in tables 3 and 4. Minor changes in word order have been made on some of the drillers' logs. Logs from test holes drilled during previous investigations have the following numbers: 750-1 through 1177 (Lindvig, 1965), 5111 through 5651 (Naplin, 1973), and 8691 through 8915 (Naplin, 1976). Logs of test holes drilled as part of this project begin with number 9105. Most test holes drilled during this project and some municipal and industrial wells have geophysical logs in addition to a description of the materials penetrated. The geophysical logs are extremely useful for geologic correlation purposes. Grain-size determinations refer to the Wentworth (1922) size scale. The color descriptions were determined by comparing fresh samples with the Geological Society of America's rock color chart (1963).

Water Quality

The mineral constituents and physical properties of water are reported in the tables of analyses (tables 5 and 6). Water for samples was secured using the existing pumps from privately owned wells and with airlift from the North Dakota State Water Commission observation wells. Generally enough water to clear the well column and plumbing was pumped, then the sample was collected in a polyethylene bottle. For those metals considered unstable, a separate sample was filtered and acidified before transport to the laboratory. Most of the samples were analyzed by the North Dakota State Water Commission, Bismarck, N. Dak. A few samples from city wells were analyzed by the U.S. Geological Survey, Salt Lake City, Utah. Methods of analyses were generally those described by Brown

and others (1970). The results are expressed in milligrams per liter (mg/L) or micrograms per liter (µg/L). A microgram per liter is one-thousandth of a milligram per liter.

Drinking-water standards were established for interstate carriers by the U.S. Public Health Service (1962) and are generally accepted as applicable to public water supplies. The Federal Water Quality Act of 1965 provided for the establishment of water-quality standards for all interstate waters. Water-quality criteria for public supplies, farmsteads, industrial, and agricultural uses were established by the U.S. Federal Water Pollution Control Administration (1968). The following summation for farmstead use is from the Federal Water Pollution Control Administration (1968, p. 116).

KEY WATER QUALITY CRITERIA FOR FARMSTEAD USES

Characteristic	Recommendations (at point of use)	
	General farmstead uses	Additional special-use requirements
Taste and odor-----	Substantially free-----	
Color-----	Substantially free-----	
pH-----	6.0 to 8.5-----	6.8 to 8.5 dairy sanitation
Total dissolved inorganic solids-	500 mg/L (under certain circumstances, higher levels are acceptable)-	
Turbidity-----	Substantially free-----	
Hazardous trace elements-----	Levels in excess of those shown are grounds for rejection of a supply: Substances (mg/L) Arsenic----- ¹ 0.05 Barium----- ¹ 1.00 Cadmium----- ¹ 0.01 Chromium----- ¹ 0.05 Cyanides----- ¹ 0.2 Lead----- ¹ 0.05 Selenium----- ¹ 0.01 Silver----- ¹ 0.05	
Other trace elements-----	Levels shown below should not be exceeded if alternate sources are available: Substances (mg/L) Manganese-----0.05 Iron-----0.3 Copper-----1.0 Zinc-----5.0 Fluoride-----0.7-1.2 (¹ 2.4) Nitrate (as N)----- ¹ 10.0	In dairy sanitation, water should contain <20 mg/L potassium and <0.1 mg/L iron and copper.

¹Maximum permitted levels of inorganic chemicals in public water systems of North Dakota; set by the North Dakota State Department of Health (1977).

Mineral Constituents in Solution

Silica (SiO_2)

Weathering processes dissolve silica from practically all rocks. Silica affects the usefulness of water because it can contribute to the formation of scale in pipes, water heaters, and boilers in the presence of calcium and magnesium.

Iron (Fe)

Iron is a widespread constituent in rocks and is easily leached by ground water under reducing conditions or in acidic water. Water containing more than 300 $\mu\text{g/L}$ of iron, after exposure to air, may become discolored. Reddish-brown stains on porcelain or enamelware and fixtures and on fabrics washed in the water result from the iron-imparted turbidity.

Manganese (Mn)

Manganese in concentrations as low as 200 $\mu\text{g/L}$ may cause a dark-brown or black stain on fabrics and porcelain fixtures. Ground water that contains high concentrations of iron may also have considerable amounts of manganese.

Calcium and Magnesium (Ca and Mg)

Limestone and similar rocks are the principal source of calcium and magnesium in natural water. Calcium and magnesium cause water hardness and, with anions, can form scale on utensils and in water heaters, boilers, and pipes.

Sodium and Potassium (Na and K)

Sodium and potassium are present in many igneous and sedimentary rocks. Sodium dissolves readily and when brought into solution it tends to remain in solution. Potassium is dissolved with greater difficulty and exhibits a stronger tendency to be reincorporated into solid weathering products, especially clay minerals. In most natural water the concentration of potassium is much lower than the concentration of sodium. Water that contains a large proportion of sodium salts may be unsatisfactory for irrigation on certain types of poorly drained soils. The presence of several hundred milligrams per liter of sodium in water can make it

unsuitable for use in sodium-restricted diets (North Dakota State Department of Health, 1962).

Bicarbonate and Carbonate (HCO_3 and CO_3)

Bicarbonate and carbonate ions are the major cause of alkalinity in most water. The significance of alkalinity to the domestic, agricultural, and industrial user is usually dependent upon the nature of the cations (Ca, Mg, Na, and K) associated with it. However, moderate amounts of alkalinity do not adversely affect most uses.

Alkalinity can be calculated from the analyses by using the formula:

$$\text{Alkalinity (As CaCO}_3) = 0.82 (\text{HCO}_3) + 1.67 (\text{CO}_3)$$

Sulfate (SO_4)

Metallic sulfide minerals in both sedimentary and igneous rocks, upon weathering or with bacterial action, are converted to sulfates. Sulfate may also be dissolved from beds of gypsum and deposits of sodium sulfate.

Chloride (Cl)

Chloride is present in all natural waters, but the concentrations usually are low. Important sources of chloride are sedimentary rocks that were deposited under marine conditions.

Fluoride (F)

Fluoride in the ground water is probably derived from solution of fluorite, apatite, and hornblende minerals.

Nitrate (NO_3) as Nitrogen (N)

The occurrence of high nitrate concentrations in shallow ground water has been attributed to leaching in feedlots or to fertilizer from irrigated fields where nitrogen compounds have been applied. High nitrate content is undesirable in drinking water because of its bitter taste and it has been reported to cause methemoglobinemia in infants (Ccmly, 1945).

Boron (B)

Boron is a constituent of the mineral tourmaline and may be present

in biotite and amphiboles. In small quantities boron is essential for plant growth. Excessive concentrations in soil and in irrigation water are harmful for some plants.

Dissolved solids

The concentration of dissolved solids is calculated from the weight of residue on evaporation at 180°C from a known quantity of water.

Properties and Characteristics of Water

Hardness

Calcium and magnesium are the principal cause of hardness. Hardness exhibits the characteristic of requiring greater quantities of soap to produce a lather as the hardness increases. Hard water also can contribute to the formation of scale in boilers, water heaters, radiators, and pipes, with a resultant decrease in the rate of water flow and(or) heat transfer.

The hardness that is equivalent to the alkalinity is called carbonate hardness, and any excess is called noncarbonate hardness. The carbonate hardness is the quantity that will contribute scale on heating and the noncarbonate hardness is the quantity of hardness that will remain after precipitation of the carbonate hardness. As a general reference, the U.S. Geological Survey many times uses the following classification of water hardness.

<u>Calcium and magnesium hardness, as CaCO₃ (milligrams per liter)</u>	<u>Hardness description</u>
0-60	Soft
61-120	Moderately hard
121-180	Hard
More than 180	Very hard

Percent sodium and sodium-adsorption ratio (SAR)

The percent sodium is the percentage of sodium to all cations, with the cations in milliequivalents per liter. The displacement of calcium and magnesium by sodium in soils is slight unless the percent sodium is considerably higher than 50.

The term SAR (sodium-adsorption ratio) was introduced by the U.S. Salinity Laboratory Staff (1954). Their experiments show that the SAR

relates to the degree water enters into cation-exchange reactions with soil. Sodium-adsorption ratio is expressed by the equation:

$$SAR = \sqrt{\frac{Na^+}{\frac{Ca^{++} + Mg^{++}}{2}}}$$

where the concentrations of the ions are expressed in milliequivalents per liter. The U.S. Salinity Laboratory Staff (1954) divided water into sixteen classes, depending upon the SAR and specific conductance. The classifications indicate the usefulness of water for irrigation of different crops on different types of soil.

Specific conductance (micromhos per centimeter at 25°C)

Specific conductance is a measure of the ability of water to conduct an electric current. Approximately 0.65 to 0.70 of the specific conductance is an estimate of the amount of dissolved solids (mg/L) in water.

Hydrogen-ion concentration (pH)

Hydrogen-ion concentration (activity) is expressed in terms of pH units. The values of pH often are used as one measure of the solvent power of water.

The hydrogen-ion concentrations affect the corrosiveness of water. A pH of 7.0 indicates that the water is neutral, neither acidic nor basic. Readings progressively lower than 7.0 denote increasing acidity, and those progressively higher than 7.0 denote increasing alkalinity.

Temperature

Temperature is an important factor in evaluating the usefulness of water. This is evident for such a direct use as an industrial coolant. Temperature is also important, but perhaps not so evident, for its influence upon concentrations of dissolved gases and mineral matter in water. Water temperatures given in table 5 are expressed in degrees Celsius (Centigrade). Degrees Celsius and the equivalent temperature in degrees Fahrenheit are given in the following table.

Degrees Celsius (°C)	Degrees Fahrenheit (°F)	Degrees Celsius (°C)	Degrees Fahrenheit (°F)	Degrees Celsius (°C)	Degrees Fahrenheit (°F)
3.5	38	12.5	54	21.5	71
4.0	39	13.0	55	22.0	72
4.5	40	13.5	56	22.5	72
5.0	41	14.0	57	23.0	73
5.5	42	14.5	58	23.5	74
6.0	43	15.0	59	24.0	75
6.5	44	15.5	60	24.5	76
7.0	45	16.0	61	25.0	77
7.5	45	16.5	62	25.5	78
8.0	46	17.0	63	26.0	79
8.5	47	17.5	63	26.5	80
9.0	48	18.0	64	27.0	81
9.5	49	18.5	65	27.5	81
10.0	50	19.0	66	28.0	82
10.5	51	19.5	67	28.5	83
11.0	52	20.0	68	29.0	84
11.5	53	20.5	69	29.5	85
12.0	54	21.0	70	30.0	86

Particle-Size Analyses

Particle-size distribution and variations obtained from samples from wells in glacial Lake Dakota sediments are in table 7. Particle-size analyses obtained from six cores taken from just below the topsoil are also shown. The numbers shown are the percent of clay, silt, or sand in the samples and cores. The values may be used to estimate hydraulic conductivity (Johnson, 1963).

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TABLE 1.--Records of wells and test holes

EXPLANATION	
<u>Owner</u>	<u>Principal aquifer</u>
NDSWC 9431, North Dakota State Water Commission, test hole number 9431	112, Pleistocene 211, Upper Cretaceous 217, Lower Cretaceous
USBR 66, United States Bureau of Reclamation, test hole number 66	BCKI, Black Island aquifer BGFV, buried glaciofluvial deposits
USDA-1, United States Department of Agriculture, test hole number 1	DKOT, Dakota EDGL, Edgeley aquifer ELDL, Ellendale aquifer GLPH, Guelph aquifer LMUR, LaMoure aquifer NRVL, Nortonville aquifer
<u>Water level (feet)</u>	OKES, Oakes aquifer OTSH, outwash deposits PIRR, Pierre PLSC, Pleistocene SPRD, Spiritwood aquifer TRRC, terrace
Water level, in feet below or (+) above land surface	
F, well flows	
<u>Use of water</u>	<u>Lithology of principal aquifer</u>
D, dewatering H, domestic I, irrigation N, industrial, includes mining P, public supply R, recreation S, stock supply T, institutional U, unused Z, other	GRVL, gravel SHLE, shale SNDS, sandstone
	<u>Specific conductance</u>
	Value shown is the field specific conductance measured at the well at the time of inventory.

LOCAL NUMBER	OWNER	DEPTH DRILLED (FEET)	DEPTH OF WELL (FEET)	DEPTH TO FIRST OPENING (FEET)	CASING DIAM-ETER (INCHES)	DATE COMPLETED	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED	USE OF WATER	PRINCIPAL AQUIFER	LITHOLOGY OF PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25°C)	ALTITUDE OF LAND SURFACE (FEET)
129-059-01DDD1	NDSWC 9431	180	86	83	1.25	08/27/1975	3.67	09/11/1975	U	1120KES	SAND	530	1311
129-059-01DDD2	NDSWC 9431A	60	45	42	1.25	08/27/1975	5.12	09/11/1975	U	1120KES	SAND	500	1311
129-059-02CAC	HANSEN, LARRY	40	40	33	12	07/03/1974	7.50	07/03/1974	I	1120KES	SAND,FINE	1110	1306
129-059-02CAD	HANSEN, LARRY	40	40	33	12	07/02/1974	5.67	07/02/1974	I	1120KES	SAND,FINE	1110	1306
129-059-02CDA	HANSEN, LARRY	37	36	30	12	07/24/1974	4.50	07/24/1974	I	1120KES	SAND,FINE	1110	1305
129-059-02CDB	HANSEN, LARRY	42	42	36	12	07/25/1974	7.58	07/25/1974	I	1120KES	SAND	1110	1306
129-059-02DAC	HANSEN, LARRY	180	--	--	--	10/08/1974	--	--	U	--	--	--	--
129-059-02DCA	HANSEN, LARRY	40	--	--	--	10/08/1974	--	--	U	--	--	--	--
129-059-02DDD	NDSWC 9432	180	--	--	--	08/29/1975	--	--	U	--	--	--	1310
129-059-03AAA	USBR 66	--	7	4	3	1966	7.00	09/ /1973	U	1120KES	SAND	--	1308
129-059-03BBB	USBR W-65	20	20	--	3	07/01/1966	7.80	05/25/1972	U	1120KES	SAND	--	1309
129-059-03CCC	NDSWC 9434	160	--	--	--	08/28/1975	--	--	U	--	--	--	1304
129-059-03DDD	USBR 75	--	8	4	3	1966	8.00	09/ /1973	U	1120KES	SAND	--	1309
129-059-04BBB1	NDSWC 9435	160	--	--	--	08/28/1975	--	--	U	--	--	--	1305
129-059-04BBB2	USBR W-64	20	--	--	3	06/22/1966	8.70	02/22/1972	U	1120KES	SAND	--	1306
129-059-04DDD	USBR W-74	20	20	4	3	06/ /1966	7.40	09/06/1973	U	1120KES	SAND	--	1303
129-059-05CCC	USBR OAKES-10	53	38	--	1.25	01/16/1951	9.80	01/16/1951	U	1120KES	GRVL	--	1306
129-059-05DDD	USBR W-73	20	20	--	3	06/15/1966	7.10	02/22/1972	U	1120KES	SAND	--	1304
129-059-06CCC	USBR W-71	20	9	4	3	06/15/1966	8.00	02/22/1972	U	1120KES	SAND	--	1297
129-059-07DDD	USBR W-80	20	8	4	3	07/01/1966	7.70	02/22/1972	U	1120KES	SAND	--	1302
129-059-08BBB	USBR W-72	20	20	4	3	06/ /1966	11.20	09/06/1973	U	1120KES	SAND	--	1306
129-059-08DDD1	USBR OAKES-11	57	--	--	--	01/18/1951	--	--	U	--	--	--	1291
129-059-08DDD2	USBR W-81	20	20	--	3	07/01/1966	6.30	02/22/1972	U	1120KES	SAND	--	1304
129-059-09BCD	LOCKEN, DAVID	150	--	--	--	04/03/1974	6.00	04/03/1974	U	1120KES	SAND	--	1304
129-059-10AAA1	NDSWC 9433	180	--	--	--	08/28/1975	--	--	U	--	--	--	1310
129-059-10AAA2	NDSWC 9433A	60	36	33	1.25	08/28/1975	7.03	09/11/1975	U	1120KES	SAND	1350	1310
129-059-11AAA	USBR W-76	15	13	4	3	06/05/1966	7.00	09/06/1973	U	1120KES	SAND	--	1309
129-059-12ADD	HANSEN, ALLEN	--	--	--	--	--	--	--	I	--	--	510	--
129-059-13AAA	USBR W-112	20	18	4	3	02/01/1967	7.40	09/06/1973	U	1120KES	SAND	--	1311
129-059-13ACA	REED, RICHARD	60	--	--	--	11/05/1974	--	--	U	--	--	--	--
129-059-13ADA	OAKES FARMS	115	115	95	16	07/24/1975	1.00	07/24/1975	I	1120KES	SAND	600	--
129-059-13BDD1	REED, RICHARD	80	--	--	--	11/05/1974	--	--	U	--	--	--	--
129-059-13BDD2	OAKES FARMS	125	125	95	16	07/21/1975	1.00	07/21/1975	I	1120KES	SAND	640	--
129-059-13DDD1	USBR W-113	--	8	4	3	02/01/1967	--	--	U	1120KES	SAND	--	1311
129-059-13DDD2	NDSWC 9430	160	101	98	1.25	08/27/1975	4.09	09/11/1975	U	1120KES	SAND,MED.	775	1306
129-059-14BBB	USBR W-107	20	14	4	3	02/01/1967	7.20	09/07/1973	U	1120KES	SAND	--	1304
129-059-15BBB	USBR W-105	--	13	4	3	02/01/1967	10.00	08/ /1970	U	1120KES	SAND	--	1306
129-059-15CCC	USBR W-106	--	15	4	3	02/01/1967	9.00	09/ /1973	U	1120KES	SAND	--	1302
129-059-16CCC	USBR W-85	20	20	4	3	08/01/1966	9.30	09/07/1973	U	1120KES	SAND	--	1303
129-059-18DDD1	USBR OAKES-12	155	--	--	--	01/31/1951	15.70	01/31/1951	U	--	--	--	1307

LOCAL NUMBER	OWNER	DEPTH DRILLED (FEET)	DEPTH OF WELL (FEET)	DEPTH TO FIRST OPENING (FEET)	CASING DIAM- ETER (INCHES)	DATE COMPLETED	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED	USE OF WATER	PRINCIPAL AQUIFER	LITHOLOGY OF PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25°C)	ALTITUDE OF LAND SURFACE (FEET)
129-059-18DD02	USBR W-84	20	20	--	3	07/07/1966	9.10	02/22/1972	U	1120KES	SAND	--	1305
129-059-19CCC	USBR W-88	--	5	4	3	06/15/1966	5.00	09/ /1973	U	1120KES	SAND	--	1292
129-059-19DD0	USBR W-89	20	19	4	3	06/15/1966	9.90	09/06/1973	U	1120KES	SAND	--	1304
129-059-20ARR	NDSWC 9110	220	--	--	--	09/17/1974	--	--	U	--	--	--	1302
129-059-22AAA	USBR W-108	20	18	4	3	02/01/1967	8.20	09/07/1973	U	1120KES	SAND	--	1300
129-059-22DD0	USBR W-109	15	9	4	3	02/01/1967	8.40	09/07/1973	U	1120KES	SAND	--	1295
129-059-23BBB	NDSWC 9109	220	--	--	--	09/17/1974	--	--	U	--	--	--	1300
129-059-24DD0	USBR W-114	20	7	4	3	02/01/1967	6.70	09/06/1973	U	1120KES	SAND	--	1308
129-059-28AAA	USBR W-91	20	19	4	3	06/15/1966	11.00	09/07/1973	U	1120KES	SAND	--	1295
129-059-29AAA	USBR W-90	20	10	4	3	06/15/1966	7.20	05/25/1972	U	1120KES	SAND	--	1306
129-059-29CCC1	USBR NAKES-13	126	--	--	--	02/07/1951	11.80	02/07/1951	U	--	--	--	1299
129-059-29CCC2	USBR W-94	28	20	--	3	06/10/1966	7.70	02/22/1972	U	1120KES	SAND	--	1299
129-059-29DD0	USBR W-95	20	19	4	3	08/01/1966	10.20	09/07/1973	U	1120KES	SAND	--	1301
129-059-31BBB	USBR W-93	--	14	4	3	1966	8.00	09/ /1973	U	--	--	--	1293
129-059-31DD0	USBR W-100	15	15	4	3	06/15/1966	7.80	09/06/1973	U	1120KES	SAND	--	1289
129-059-33AAA	USBR W-96	--	14	4	3	1966	10.00	05/ /1971	U	1120KES	SAND	--	1296
129-059-33CCC	USBR W-101	20	14	4	3	06/12/1966	4.70	09/07/1973	U	1120KES	SAND	--	1293
129-059-33DD0	USBR W-102	--	6	4	3	06/12/1966	--	--	U	1120KES	SAND	--	1296
129-059-34AAA	USBR W-110	--	18	4	3	03/01/1967	9.90	09/07/1973	U	1120KES	SAND	--	1293
129-060-06AAA	NDSWC 9436	260	--	--	--	08/28/1975	--	--	U	--	--	--	1365
129-060-06CCA	ANDERSEN, H.	--	1228	1177	2	06/14/1972	289.00+	06/14/1972	H,S	2170KOT	SNDS	--	1360
129-060-11DD0	USBR W-78	13	9	4	3	06/10/1966	8.40	09/06/1973	U	1120KES	SAND	--	1302
129-060-12BBB	USBR W-70	--	19	4	3	06/ /1966	9.00	09/ /1973	U	1120KES	SAND	--	1307
129-060-12DD0	USBR W-79	--	13	4	3	06/ /1966	6.00	09/ /1973	U	1120KES	SAND	--	1297
129-060-13DD0	USBR W-83	--	18	4	3	06/15/1966	9.00	09/ /1973	U	1120KES	SAND	--	1298
129-060-14DD0	USBR W-82	20	--	--	3	06/15/1966	--	--	U	1120KES	SAND	--	1295
129-060-20BBB	NDSWC 9113	260	--	--	--	09/18/1974	7.00	09/06/1973	U	1120KES	SAND	--	1369
129-060-21AAA	NDSWC 9112	200	--	--	--	09/18/1974	--	--	U	--	--	--	1345
129-060-22ADD	VISTO, MARVIN	--	190	--	--	1965	--	--	S	--	--	3600	1310
129-060-23CDD	USBR W-86	--	12	4	3	06/15/1966	8.00	09/ /1973	U	1120KES	SAND	--	1296
129-060-23DD0	USBR W-87	--	12	4	3	06/15/1966	--	--	U	1120KES	SAND	--	1302
129-060-24BBB	NDSWC 9111	160	--	--	--	09/17/1974	--	--	U	--	--	--	1298
129-060-28CCB	HANSEN BRO'S	--	1203	1160	2	07/23/1970	F	--	H,S	2170KOT	SNDS	--	1355
129-060-34DD0	USBR	--	150	--	--	--	--	--	--	112PLSC	SAND	--	--
129-060-35AAA	USBR W-92	20	15	4	3	06/12/1966	14.50	02/22/1972	U	1120KES	SAND	--	1301
129-060-35CCC	USBR W-97	13	12	4	3	06/10/1966	8.00	09/06/1973	U	1120KES	SAND	--	1292
129-060-36CCB	USBR W-98	--	6	4	3	06/ /1966	--	--	U	1120KES	SAND	--	1292
129-060-36DD0	USBR W-99	20	9	4	3	06/12/1966	8.60	09/06/1973	U	1120KES	SAND	--	1295
129-061-06CBB	NDSWC 5635	180	100	97	1.25	09/ /1970	9.18	08/03/1970	U	112ELDL	SAND	--	1406
129-061-08BBB	NDSWC 5651	160	--	--	--	05/19/1970	--	--	U	--	--	--	1420

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129-061-128BC1	NORTON, W.	31	31	--	--	08/01/1961		--	H	--		--	--
129-061-128BC2	NORTON, W.	31	31	30	18	04/30/1974	18.00	04/30/1974	S	--		2550	1370
129-061-15CCC	NDSWC 9115	300	--	--	--	09/08/1974		--	U	--		--	1375
129-061-17AAA	NDSWC 5638	180	--	--	--	05/12/1970		--	U	--		--	1390
129-061-1788B	NDSWC 5637	340	119	107	1.25	05/12/1970	41.91	07/23/1970	U	112ELDL	SAND	--	1440
129-061-18CCC	NDSWC 5143	160	--	--	--	08/28/1968		--	U	--		--	1407
129-061-21BAA	NDSWC 9116	300	264	258	1.25	09/19/1974	16.85	01/23/1975	U	112NRVL	SAND	3000	1384
129-061-2388B	NDSWC 9114	260	--	--	--	09/18/1974		--	U	--		--	1370
129-061-28CCC	NDSWC 9454	340	--	--	--	09/25/1975		--	U	--		--	1380
129-061-2988B	NDSWC 5642	331	--	--	--	05/13/1970		--	U	--		--	1398
129-061-31AAA	NDSWC 9455	355	--	--	--	09/26/1975		--	U	--		--	1395
129-061-31BCA1	MARTINSON, J.	32	30	15	6	04/26/1973	12.00	04/26/1973	H,S	112ELDL	SAND	4250	--
129-061-31BCA2	MARTINSON, J.	50	38	18	4	04/05/1973	20.00	04/05/1973	S	112ELDL	SAND	4200	--
129-061-31BCA3	MARTINSON, J.	--	1100	--	2	1963		--	S	2170KGT	SNDS	3900	1355
129-062-018AA	NDSWC 5634	160	80	77	1.25	05/08/1970	7.06	08/03/1970	U	112ELDL	SAND	--	1404
129-062-0188B	NDSWC 5650	140	83	77	1.25	05/19/1970	0.21*	08/03/1973	U	112ELDL	SAND	--	1397
129-062-028AB	NDSWC 5257	200	--	--	--	12/09/1968		--	U	--		--	1400
129-062-068AA1	NDSWC 5159	60	--	--	--	09/04/1968		--	U	--		--	1432
129-062-068AA2	NDSWC 5158	40	--	--	--	09/04/1968		--	U	--		--	1420
129-062-06CAC	NDSWC 5165	40	--	--	--	09/04/1968		--	U	--		--	1415
129-062-06CAD1	NDSWC 5163	40	--	--	--	09/04/1968		--	U	--		--	1428
129-062-06CAD2	NDSWC 5164	40	--	--	--	09/04/1968		--	U	--		--	1415
129-062-06CCC	NDSWC 5118	160	--	--	--	08/20/1968		--	U	--		--	1447
129-062-06CDD1	NDSWC 5162	40	--	--	--	09/04/1968		--	U	--		--	1418
129-062-06CDD2	NDSWC 5119	120	--	--	--	08/20/1968		--	U	--		--	1417
129-062-06DCD	NDSWC 750-5	120	--	--	--	05/27/1964		--	U	--		--	1425
129-062-07ACC	NDSWC 5121	140	--	--	--	08/21/1968		--	U	--		--	1432
129-062-07ADD	NDSWC 5122	120	--	--	--	08/21/1968		--	U	--		--	1430
129-062-07BDD1	NDSWC 5150	40	--	--	--	08/30/1968		--	U	--		--	1412
129-062-07BDD2	NDSWC 5120	80	--	--	--	08/21/1968		--	U	--		--	1415
129-062-07CAB	NDSWC 5149	40	--	--	--	08/29/1968		--	U	--		--	1415
129-062-07CBB	NDSWC 5123	80	--	--	--	08/21/1968		--	U	--		--	1440
129-062-07CCC1	NDSWC 750-2	120	--	--	--	1964		--	U	--		--	1415
129-062-07CCC2	NDSWC 1177	18	18	--	1.25	1957		--	U	1120TSH	SAND	--	1415
129-062-07CDD	NDSWC 750-3	140	83	--	1.25	1964		--	U	1128GFV	SAND	--	1435
129-062-07DBB	NDSWC 1176	30	28	--	1.25	07/19/1957		--	U	1120TSH	SAND	--	1434
129-062-07DDD	NDSWC 750-4	150	--	--	--	05/26/1964		--	U	--		--	1430
129-062-08BBA	NDSWC 750-6	135	--	--	--	05/27/1962		--	U	--		--	1430
129-062-08CDD	NDSWC 5116	140	--	--	--	08/20/1968		--	U	--		--	1422
129-062-08DDD	NDSWC 5117	140	--	--	--	08/20/1968		--	U	--		--	1417

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129-062-10ADD	NDSWC 5138	160	--	--	--	08/27/1968		--	U	--		--	1379
129-062-100CD	NDSWC 5136	320	--	--	--	08/26/1968		--	U	--		--	1378
129-062-12888	NDSWC 5621	320	--	--	--	05/05/1970		--	U	--		--	1395
129-062-12CCC	NDSWC 5641	130	--	--	--	05/13/1970		--	U	--		--	1400
129-062-1200A	NDSWC 5636	160	90	87	1.25	05/12/1970	7.10	07/23/1970	--	112ELDL	SAND	--	1407
129-062-13DAA	NDSWC 5142	280	--	--	--	08/27/1968		--	U	--		--	1402
129-062-13DAB	HOKANA, MARSHALL	110	--	--	--	05/16/1974		--	U	--		--	--
129-062-13DBD	HOKANA, MARSHALL	88	--	--	--	05/16/1974		--	U	--		--	--
129-062-14CCC	NDSWC 5141	160	--	--	--	08/27/1968		--	U	--		--	1381
129-062-15AAB	NDSWC 5137	320	--	--	--	08/26/1968		--	U	--		--	1378
129-062-15CCC	BILLY, JAMES	1244	1244	1118	4	06/29/1974	5.00+	07/17/1975	S,H	217DKOT	SNDS	--	--
129-062-17AAA	SAND, CLARENCE	60	60	59	18	10/02/1974	42.00	10/02/1974	H	--		--	1422
129-062-1888A	NDSWC 5151	120	22	19	1.25	08/30/1968	7.40	05/19/1970	U	1120TSH	SAND	--	1420
129-062-1888B1	NDSWC 5152	40	--	--	--	09/05/1968		--	U	--		--	1415
129-062-1888B2	NDSWC 5173	40	15	10	1.25	09/03/1968	4.10	05/19/1970	U	1120TSH	SAND	--	1413
129-062-1888B3	NDSWC 5172	40	25	22	1.25	09/03/1968	8.30	05/19/1970	U	1120TSH	SAND	--	1417
129-062-1888B4	ELLENDALE, ND	--	30	--	--	--		--	P	1120TSH	SAND	1640	--
129-062-1888C	ELLENDALE, ND	--	29	--	--	--		--	P	1120TSH	SAND	3000	--
129-062-1888C9	NDSWC 5131	60	--	--	--	08/22/1968		--	U	--		--	1412
129-062-1888CD	NDSWC 5125	60	--	--	--	08/22/1968		--	U	--		--	1428
129-062-18DCC	NDSWC 750-7	130	--	--	--	05/27/1964		--	U	--		--	1431
129-062-210DD	NDSWC 5144	140	--	--	--	08/28/1968		--	U	--		--	1385
129-062-22AAB	NDSWC 5140	340	--	--	--	08/27/1968		--	U	--		--	1377
129-062-228AA	NDSWC 5139	180	--	--	--	08/27/1968		--	U	--		--	1378
129-062-28DCD	NDSWC 5145	100	--	--	--	08/28/1968		--	U	--		--	1382
129-062-29CCC	NDSWC 5146	120	--	--	--	08/28/1968		--	U	--		--	1409
129-063-02AAA	NDSWC 5115	140	--	--	--	08/20/1968		--	U	--		--	1450
129-063-02DDA1	GUELKE, E.	44	44	--	18	11/06/1972	30.00	11/06/1972	H	--		--	--
129-063-02DDA2	NDSWC 1175	140	--	--	--	--		--	U	--		--	1450
129-063-100A8	NDSWC 1174	110	--	--	--	07/18/1957		--	U	--		--	1462
129-063-11ADD	NDSWC 1173	90	--	--	--	07/16/1957		--	U	--		--	1454
129-063-11DAA	NDSWC 1167	130	--	--	--	07/09/1957		--	U	--		--	1454
129-063-11DCA	NDSWC 1168	120	--	--	--	07/12/1957		--	U	--		--	1443
129-063-12CA0	NDSWC 1166	160	--	--	--	07/09/1957		--	U	--		--	1453
129-063-12CCC	NDSWC 1169	130	--	--	--	07/13/1957		--	U	--		--	1451
129-063-12DBA	ELLENDALE, ND	1083	1083	--	--	12/23/1923	5.00	08/05/1977	P	217DKOT	SNDS	--	--
129-063-12DBC	NDSWC 750-1	160	44	--	1.25	05/25/1964		--	U	1128GFV	SAND	--	1450
129-063-13AAD	NDSWC 5132	60	--	--	--	08/22/1968		--	U	--		--	1416
129-063-13ADD1	NDSWC 5130	60	--	--	--	08/22/1968		--	U	--		--	1411
129-063-13ADD2	NDSWC 5124	40	--	--	--	08/22/1968		--	U	--		--	1410
129-063-13BCC	NDSWC 1170	130	--	--	--	07/15/1957		--	U	--		--	1453

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129-063-130AA	NDSWC 5129	60	--	--	--	08/22/1968		--	U	--		--	1412
129-063-130AB	NDSWC 5133	60	35	--	1.25	08/23/1968	4.33	08/27/1969	U	1120TSH	SAND	--	1415
129-063-130AC	NDSWC 5134	60	--	--	--	08/23/1968		--	U	--		--	1413
129-063-130AD	NDSWC 5128	60	--	--	--	08/22/1968		--	U	--		--	1414
129-063-130CC	NDSWC 1172	100	--	--	--	07/16/1957		--	U	--		--	1434
129-063-130DA	NDSWC 5127	60	--	--	--	08/22/1968		--	U	--		--	1412
129-063-130DB	NDSWC 5135	60	--	--	--	08/23/1968		--	U	--		--	1412
129-063-130DC	NDSWC 5126	120	--	--	--	08/22/1968		--	U	--		--	1412
129-063-148AA	NDSWC 5153	40	--	--	--	09/03/1968		--	U	--		--	1440
129-063-148AD	BELL, JOHN	1860	1738	--	5	06/17/1954		--		364BCK1	SNDS	5500	1440
129-063-24ABA	NDSWC 5171	40	--	--	--	09/04/1968		--	--	--		--	1416
129-063-24ABD	NDSWC 5157	40	--	--	--	09/03/1968		--	U	--		--	1416
129-063-24ACD	NDSWC 5156	40	--	--	--	09/03/1968		--	U	--		--	1422
129-063-2488B	NDSWC 1171	130	--	--	--	07/15/1957		--	U	--		--	1458
129-063-248DD	NDSWC 5170	60	--	--	--	09/04/1968		--	U	--		--	1425
129-063-24CAA	NDSWC 5169	40	--	--	--	09/04/1968		--	U	--		--	1415
129-063-24CAD	NDSWC 5168	40	--	--	--	09/04/1968		--	U	--		--	1416
129-063-24CDA1	NDSWC 5166	40	20	17	1.25	09/04/1968	4.33	08/27/1969	U	1120TSH	SAND	--	1415
129-063-24CDA2	NDSWC 5167	40	--	--	--	09/04/1968		--	U	--		--	1413
129-063-24CDD	NDSWC D.H.19	26	--	--	--	--		--	U	--		--	1414
129-063-24DBB	NDSWC 5155	40	--	--	--	09/03/1968		--	U	--		--	1418
129-063-24DCB	NDSWC 5154	40	--	--	--	09/03/1968		--	U	--		--	1420
129-063-24DCC	NDSWC D.H.15	24	--	--	--	--		--	U	--		--	1412
129-063-2588B	LYNDE, C.	--	111#	1034	2	07/24/1973	0.00	07/24/1973	H,S	2170KOT	SNDS	--	1450
129-063-27CDC	NDSWC 5178	140	--	--	--	09/05/1968		--	U	--		--	1450
129-063-27DDD	NDSWC 5177	80	--	--	--	09/05/1968		--	U	--		--	1432
129-063-3488B	WEIDINGER, RUBEN	--	1180	1033	3	08/13/1974	4.00+	07/17/1975	H,S	2170KOT	SNDS	5250	1455
129-064-11CAA	MORRISON, LYLE	21	21	20	18	07/13/1974	13.00	07/13/1974	H	--		1890	--
129-064-2088B	RALL, MELVIN	1300	1300	1237	5	01/07/1974	16.00	01/07/1974	S	2170KOT	SNDS	5000	1535
129-064-2388A	NDSWC 9158	40	--	--	--	10/09/1974		--	U	--		--	1463
129-065-12CCC	NDSWC 9159	40	--	--	--	10/09/1974		--	U	--		--	1568
129-065-158AD	AVERY, JOHN	27	27	26	30	04/25/1974	6.00	04/25/1974	H,S	--		2900	1610
129-065-290AD1	MARTIN, R.	--	280	--	3	--		--	S	--		8000	--
129-065-290AD2	MARTIN, R.	--	380	--	3	--		--	S	--		--	--
129-065-290AD3	MARTIN, R.	--	24	--	--	--		--	H,S	--		2200	--
129-065-35ADC	NDSWC 9511	40	40	37	1.25	11/13/1975	5.72	12/01/1975	U	211PIRR	SHLE	8000	1556
129-065-350BD	FORBES, ND	1400	1200	--	6	1929	10.00	05/05/1977	P	2170KOT	SNDS	--	1560
129-066-10DDD	NDSWC 9161	420	--	--	--	10/09/1974		--	U	--		--	2143
129-066-11DDA	WAGNER, MIKE	40	40	--	18	12/06/1974	15.00	07/17/1975	S	1128GFV	SAND	--	2165
129-066-228B	CALVERT KAMM 1	3166	--	--	--	1957		--	U	--		--	2185

LOCAL NUMBER	OWNER	DEPTH (FEET)	DEPTH OF WELL (FEET)	DEPTH TO OPENING (FEET)	DEPTH TO CASING (INCHES)	DATE COMPLETED	WATER LEVEL (FEET)	MEASURED WATER LEVEL	USE OF WATER	PRINCIPAL AQUIFER	LITHOLOGY OF PRINCIPAL AQUIFER	CONDUCTANCE (UMHOS/CM @ 25°C)	SURFACE OF LAND ALTITUDE (FEET)
129-066-288AA	WALZ, P.	--	30	--	18	08/26/1975	6.11	6.11	H+S	SAND	1120KES	1850	--
130-059-0186C	NOSMC 9425	140	71	68	1.25	08/26/1975	6.50	6.50	U	SAND	1120KES	2100	1308
130-059-0187D	USBR OAKES-31	55	51	--	3	03/26/1951	0.00	0.00	U	SAND	1120KES	--	1312
130-059-028AA1	USBR C-4	--	16	4	1	1970	--	--	U	SAND	1120KES	--	1313
130-059-028AA2	USBR C-3	--	8	4	3	1967	--	--	U	SAND	1120KES	--	1310
130-059-028AA3	USBR C-7	18	18	12	2	09/30/1975	4.91	4.91	U	SAND	1120KES	--	1309
130-059-028AA4	USBR C-8	--	9	4	3	1967	9.00	9.00	U	SAND	1120KES	--	1309
130-059-028AA5	USBR C-9	--	8	4	3	1967	8.00	8.00	U	SAND	1120KES	--	1309
130-059-028AA6	USBR 25	--	11	4	1	1970	6.00	6.00	U	SAND	1120KES	--	1309
130-059-028AA7	USBR 25	--	25	--	3	07/20/1966	5.10	5.10	U	SAND	1120KES	--	1310
130-059-028AA8	USBR C-9A	--	11	--	1.25	06/ /1972	6.35	6.35	U	SAND	1120KES	--	1310
130-059-028AA9	USBR C-6	--	9	4	3	1967	10.00	10.00	U	SAND	1120KES	--	1310
130-059-028AD1	USBR C-1	--	10	4	3	1967	0.00	0.00	U	SAND	1120KES	--	1311
130-059-028AD2	USBR C-2	--	14	4	1	1970	0.00	0.00	U	SAND	1120KES	--	1313
130-059-028AD3	USBR C-3	--	7	4	3	1967	--	--	U	SAND	1120KES	--	1315
130-059-028B8	USBR OAKES-50	24	41	--	4	03/03/1952	12.20	12.20	U	SAND	1120KES	--	1315
130-059-038CA	REHVSKEY, JAMES	40	40	--	--	11/05/1974	--	--	U	SAND	1120KES	--	1315
130-059-038CB	REHVSKEY, JAMES	40	40	--	--	11/05/1974	--	--	U	SAND	1120KES	--	1315
130-059-044AC	ANDERSON BROS	157	157	151	2.25	11/03/1972	18.00	18.00	H+S	SAND	1120KES	--	1313
130-059-044AD	USBR OAKES-51	243	30	--	3	02/28/1952	12.00	12.00	U	SAND	1120KES	--	1313
130-059-044CA	REED, BUD	32	--	--	--	11/05/1974	--	--	U	SAND	1120KES	--	1311
130-059-044CC	REED, BUD	31	--	--	--	11/05/1974	--	--	U	SAND	1120KES	--	1311
130-059-044CB	REED, BUD	30	--	--	--	11/05/1974	--	--	U	SAND	1120KES	--	1311
130-059-044DB	REED, BUD	33	--	--	--	11/05/1974	--	--	U	SAND	1120KES	--	1311
130-059-044DD	USBR N-28	20	18	4	3	06/10/1966	8.60	8.60	U	SAND	1120KES	--	1311
130-059-054CA	DONNELLY, W.	82	--	--	--	02/27/1973	--	--	U	SAND	1120KES	--	1297
130-059-058AA	NOSMC 9426	120	--	--	--	08/26/1975	--	--	U	SAND	1120KES	--	1303
130-059-058AD	USBR OAKES-9	46	41	--	--	01/11/1951	7.80	7.80	U	SAND	1120KES	--	1303
130-059-060DD	NOSMC 9117	140	--	--	--	09/19/1974	--	--	U	SAND	1120KES	--	1310
130-059-066CC	USBR W-27	13	13	4	3	06/05/1966	6.70	6.70	U	SAND	1120KES	--	1309
130-059-08AAA	HAAK, NORMAN	25	25	--	--	02/20/1974	--	--	I	SAND	1120KES	550	--
130-059-08ABB	USBR W-26	20	7	4	3	06/01/1966	5.60	5.60	U	SAND	1120KES	--	1304
130-059-088CC	USBR W-31	20	4	4	3	06/ /1966	5.60	5.60	U	SAND	1120KES	--	1304
130-059-088CD	USBR W-31	23	23	18	4	09/20/1974	6.00	6.00	S	SAND GRAVELLY	1120KES	1225	1298
130-059-098BB	LOCKEN, DAVID	25	--	--	--	09/20/1974	6.00	6.00	U	SAND	1120KES	--	1310
130-059-098BD	LOCKEN, DAVID	110	--	--	--	04/03/1974	--	--	U	SAND	1120KES	--	1310
130-059-09CAC1	SCHMIESS, DENNIS	140	--	--	--	11/06/1974	--	--	U	SAND	1120KES	--	1310
130-059-09CAC2	SCHMIESS, DENNIS	70	--	--	--	10/16/1974	--	--	U	SAND	1120KES	--	1310
130-059-09CAC3	STREICH, ORRIN	90	--	--	--	04/04/1973	--	--	U	SAND	1120KES	--	1310
130-059-09CAC4	SCHMIESS, DENNIS	80	--	--	--	10/24/1974	--	--	U	SAND	1120KES	--	1310

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130-059-09CAG5	STREICH, ORRIN	--	37	--	8	04/28/1973		--	--	--		--	--
130-059-09CAD	SCHWEISS, DENNIS	60	--	--	--	10/22/1974		--	U	--		--	--
130-059-09CCA	SCHWEISS, DENNIS	80	--	--	--	10/22/1974		--	U	--		--	--
130-059-09CC	USBR W-32	20	18	4	3	07/01/1966	8.00	09/06/1973	U	1120KES	SAND	--	1311
130-059-09CCD	SCHWEISS, DENNIS	40	--	--	--	10/22/1974	6.00	10/22/1974	U	1120KES		--	1310
130-059-09CDD	SCHWEISS, DENNIS	40	--	--	--	10/22/1974	6.00	10/22/1974	U	1120KES		--	1310
130-059-09CDD	USBR OAKES-44	37	--	--	--	04/08/1951	7.60	04/18/1951	U	1120KES	SAND	--	1311
130-059-09DDD	USBR W-33	17	13	4	3	07/25/1966	2.30	05/25/1972	U	1120KES	SAND	--	1310
130-059-10AAA	USBR W-29	20	14	4	3	06/22/1966	8.90	09/06/1973	U	1120KES	SAND	--	1312
130-059-11BBB	USBR OAKES-29	55	--	--	--	03/16/1951		--	U	1120KES	SAND	--	1313
130-059-11DDD	USBR W-35	--	10	4	3	07/ /1966	7.00	09/ /1973	U	1120KES	SAND	--	1309
130-059-12BBB	USBR OAKES-30	65	--	--	--	03/22/1951	4.80	03/22/1951	U	1120KES	SAND	--	1307
130-059-12DDD	USBR OAKES-1	115	--	--	--	12/07/1950	4.50	12/08/1950	U	1120KES	SAND	--	1307
130-059-13CBC1	USDA	30	30	--	3	10/04/1973	5.88	10/07/1973	U	1120KES	SAND	--	1314
130-059-13CBC2	USDA	55	55	35	12	10/16/1974	26.62	07/24/1975	I	1120KES	SAND	840	1313
130-059-13CDD1	USDA-1	50	50	--	--	10/03/1973	9.00	10/ /1973	U	1120KES	SAND	--	1314
130-059-13CDD2	USDA-2	50	50	--	--	10/03/1973	9.00	10/ /1973	U	1120KES	SAND	--	1314
130-059-13CDD3	USDA-4	55	55	--	--	10/04/1973	8.00	10/ /1973	U	1120KES	SAND	--	1314
130-059-13CC1	USBR W-43	15	15	4	3	06/14/1966	7.10	07/16/1966	U	1120KES	SAND	--	1314
130-059-13CC2	USDA-3	30	13	--	1	10/03/1973	8.30	08/28/1972	U	1120KES	SAND	--	1314
130-059-13CC3	USBR W-43A	18	18	12	2	10/01/1975	6.50	10/08/1975	U	1120KES	SAND	--	1314
130-059-13CC4	USBR 3	50	20	17	3	10/03/1973	7.32	10/20/1973	U	1120KES	SAND	--	1314
130-059-13DDD	USBR OAKES-2	110	--	--	--	12/11/1950	5.30	12/12/1950	U	1120KES	SAND	--	1312
130-059-14AAB	DANIELS, TOM	45	--	--	--	09/23/1974	6.00	09/23/1974	U	1120KES	SAND	--	1311
130-059-14AAC	DANIELS, TOM	140	--	--	--	09/23/1974	6.00	09/23/1974	U	--		--	1311
130-059-14AB	DANIELS, TOM	45	--	--	--	09/23/1974	6.00	09/23/1974	U	1120KES	SAND	--	1311
130-059-14ABA	DANIELS, TOM	46	46	26	12	10/04/1974	12.00	10/04/1974	I	1120KES	SAND, COARSE	--	1311
130-059-14ACA	DANIELS, TOM	42	42	--	12	10/04/1974	9.00	10/04/1974	I	1120KES	SAND	850	1310
130-059-140001	USBR OAKES-49	263	--	--	--	02/07/1952	22.00	02/13/1952	U	1120KES	SAND	--	1315
130-059-140002	NDSMC 9106	260	--	--	--	09/16/1974		--	U	--		--	1312
130-059-15AAA	USBR W-34	20	13	4	3	07/06/1966	6.70	09/06/1973	U	1120KES	SAND	--	1310
130-059-15ABC	DANIELS, TOM	40	--	--	--	10/09/1974		--	U	--		--	--
130-059-15ACC	DANIELS, TOM	40	--	--	--	10/09/1974		--	U	--		--	--
130-059-15BAA1	DANIELS, TOM	30	--	--	--	10/09/1974		--	U	--		--	--
130-059-15BAA2	DANIELS, TOM	35	--	--	--	10/09/1974		--	U	--		--	--
130-059-15BAA3	DANIELS, TOM	40	--	--	--	04/03/1974		--	U	--		--	--
130-059-15BA01	DANIELS, TOM	35	--	--	--	10/09/1974		--	U	--		--	--
130-059-15BA02	DANIELS, TOM	30	--	--	--	10/09/1974		--	U	--		--	--
130-059-15BA01	DANIELS, TOM	37	--	--	--	10/09/1975		--	U	--		--	--
130-059-15BA02	DANIELS, TOM	40	--	--	--	04/03/1974		--	U	--		--	--

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130-059-1588C	DANIELS, TOM	40	--	--	--	04/03/1974	--	--	U	--	--	--	--
130-059-158D	DANIELS, TOM	40	--	--	--	04/03/1974	--	--	U	--	--	--	--
130-059-158DA	DANIELS, TOM	39	39	19	10	10/04/1974	10.00	10/04/1974	I	1120KES	SAND	600	1310
130-059-158DB	DANIELS, TOM	140	--	--	--	04/03/1974	--	--	U	--	--	--	--
130-059-158DD	DANIELS, TOM	37	37	17	10	10/ /1974	8.00	10/ /1974	I	1120KES	SAND	600	1310
130-059-15DCA	DANIELS, TOM	40	--	--	--	10/09/1974	--	--	U	--	--	--	--
130-059-16AAA1	USBR OAKES-47	233	--	--	--	02/14/1952	9.00	02/15/1952	U	1120KES	SAND	--	1310
130-059-16AAA2	USBR	--	18	12	2	09/ /1975	--	--	U	--	--	--	--
130-059-16AAB	FENNO, ROBERT	60	--	--	--	09/23/1974	--	--	U	--	--	--	--
130-059-16AAC	FENNO, ROBERT	36	36	21	12	05/01/1976	6.00	05/01/1976	I	1120KES	SAND	520	--
130-059-16ABD	FENNO, ROBERT	37	37	22	12	05/01/1976	6.00	05/01/1976	I	1120KES	--	520	--
130-059-16ACA	FENNO, ROBERT	60	--	--	--	09/23/1974	--	--	U	--	--	--	--
130-059-16ACC	USBR OAKES-46	248	--	--	--	01/16/1952	12.90	01/16/1952	U	1120KES	SAND	--	1314
130-059-16ADC	FENNO, ROBERT	50	--	--	--	09/23/1974	--	--	U	--	--	--	--
130-059-16AD	USBR OAKES-45	135	--	--	--	01/05/1952	14.60	01/05/1952	U	1120KES	SAND	--	1310
130-059-16CB	TITUS, ROBERT	65	--	--	--	04/05/1973	--	--	U	--	--	--	--
130-059-16CB	TITUS, ROBERT	65	--	--	--	04/05/1973	--	--	U	--	--	--	--
130-059-16CCC	USBR W-40	30	14	4	3	06/15/1966	9.90	09/06/1973	U	1120KES	SAND	--	1311
130-059-16DD1	USBR W-41	15	15	--	3	06/14/1966	8.70	02/22/1972	U	1120KES	SAND	--	1312
130-059-16DD2	USBR	--	18	--	1.25	06/ /1972	6.80	08/01/1972	U	1120KES	SAND	--	1312
130-059-16DD3	USBR	18	18	12	2	10/01/1975	6.66	10/02/1975	U	1120KES	SAND	--	1312
130-059-16DD4	USBR OAKES-48	136	32	--	--	02/07/1952	8.30	02/07/1952	U	1120KES	SAND	--	1312
130-059-17ACA	DANIELS, TOM	42	42	22	12	10/ /1974	9.00	10/ /1974	I	1120KES	SAND	--	--
130-059-17BAA	USBR OAKES-39	133	--	--	--	04/09/1951	7.80	04/09/1951	U	1120KES	SAND	--	1300
130-059-17AAA1	USBR OAKES-4	72	29	29	1.25	12/19/1950	12.20	12/19/1950	U	1120KES	SAND	--	1315
130-059-17DAA2	NDSU FIELDSTATION	--	32	--	16	1969	10.00	--	I	1120KES	SAND	500	--
130-059-17DAB1	TITUS, ROBERT	20	20	10	16	07/15/1972	9.00	07/15/1972	I	1120KES	SAND, GRAVEL	600	1315
130-059-17DAB2	TITUS, ROBERT	25	--	--	--	05/31/1972	9.00	05/31/1972	U	1120KES	SAND	--	1315
130-059-17DAB3	TITUS, ROBERT	26	--	--	--	04/05/1973	--	--	U	--	--	--	--
130-059-17DAB4	TITUS, ROBERT	24	24	12	8	05/31/1972	9.00	05/31/1972	I	1120KES	SAND, COARSE	600	--
130-059-17DAB5	TITUS, ROBERT	25	--	--	--	04/05/1973	--	--	U	--	--	--	--
130-059-17DAD	TITUS, ROBERT	25	--	--	--	05/31/1972	9.00	05/31/1972	U	1120KES	SAND	--	1315
130-059-17DAB	TITUS, ROBERT	25	--	--	--	04/05/1973	6.15	07/30/1975	U	1120KES	SAND	--	1298
130-059-17DBB	TITUS, ROBERT	26	--	--	--	04/05/1973	--	--	U	--	--	--	--
130-059-17DBC	TITUS, ROBERT	25	--	--	--	04/05/1973	--	--	U	--	--	--	--
130-059-17DD	TITUS, ROBERT	25	25	--	--	05/31/1972	9.00	05/31/1972	U	1120KES	SAND	--	1312
130-059-17DDA	TITUS, ROBERT	25	--	--	--	05/31/1972	9.00	05/31/1972	U	--	--	--	--
130-059-17DDB	TITUS, ROBERT	25	--	--	--	05/31/1972	9.00	05/31/1972	U	1120KES	SAND	--	1315
130-059-18ABB	USBR OAKES-40	25	--	--	--	04/09/1951	--	--	U	--	--	--	1310
130-059-18CAC	STREICH, ORRIN	160	140	--	--	05/13/1974	24.00	05/13/1974	U	112SPRD	SAND, AND GRAVEL	--	1305

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130-059-18CBC	STREICH, ORRIN	140	--	--	--	09/20/1974	--	--	U	--	--	--	--
130-059-18CCC	USBR W-36	--	--	--	3	06/15/1966	8.60	02/22/1972	U	1120KES	SAND	--	1307
130-059-18DAC	STREICH, ORRIN	140	--	--	--	10/02/1974	--	--	U	--	--	--	--
130-059-18DBC	STREICH, ORRIN	200	140	--	--	05/13/1974	24.00	05/13/1974	U	1125PRO	SAND	--	1300
130-059-19ABD	STREICH, ORRIN	120	--	--	--	10/02/1974	--	--	U	--	--	--	--
130-059-198AA	USBR W-37	--	18	4	3	06/15/1966	8.00	09/ /1973	U	1120KES	SAND	--	1303
130-059-19BAC	STREICH, ORRIN	160	--	--	--	10/01/1974	--	--	U	1120KES	SAND	--	--
130-059-19BBC	STREICH, ORRIN	120	--	--	--	10/04/1974	--	--	U	1120KES	SAND	--	--
130-059-19CBB	NIELSON, ALAN	95	95	85	4	10/15/1974	--	--	H,S	1120KES	SAND	--	--
130-059-20AAA1	USBR DAKES-5	65	--	--	--	12/20/1950	10.40	12/20/1950	U	1120KES	SAND	--	1311
130-059-20AAA2	NDSWC 9105	240	--	--	--	09/16/1974	--	--	U	--	--	--	1310
130-059-20ABB	USBR W-39	--	10	4	3	06/15/1966	5.00	12/ /1971	U	1120KES	SAND	--	1301
130-059-20BBB	USBR W-38	8	8	4	3	06/15/1966	5.00	02/22/1972	U	1120KES	SAND, FINE LDAMY	--	1297
130-059-20CCC	USBR W-50	18	18	4	3	06/15/1966	10.90	09/06/1973	U	1120KES	SAND	--	1303
130-059-20DDD	USBR DAKES-6	60	35	--	1.25	01/03/1951	7.70	01/03/1951	U	1120KES	SAND	--	1307
130-059-21DDD	USBR W-52	20	14	4	3	07/ /1966	7.30	09/06/1973	U	1120KES	SAND	--	1309
130-059-22BCA	DANIELS, TOM	40	--	--	--	10/09/1974	--	--	U	--	--	--	--
130-059-23AAC	HOKANA, JOHN	45	45	25	12.75	11/ /1974	6.58	11/ /1974	I	1120KES	SAND, FINE TO MEDIUM	500	1315
130-059-23ACA	HOKANA, JOHN	57	57	37	12.75	11/ /1974	12.75	11/ /1974	I	1120KES	SAND	--	1315
130-059-23BBB1	USBR W-42	13	13	4	3	06/ /1966	7.70	09/06/1973	U	1120KES	SAND	--	1311
130-059-23BBB2	USBR DAKES-32	65	--	--	--	03/30/1951	6.80	03/01/1951	U	--	--	--	1310
130-059-23CCC	USBR W-53	20	11	4	3	07/ /1966	7.70	09/06/1973	U	1120KES	SAND	--	1311
130-059-23DBD	HOKANA BROS	55	55	30	12	09/07/1974	7.00	09/07/1974	I	1120KES	SAND, MEDIUM TO FINE	--	1315
130-059-23DBE	HOKANA BROS	57	57	32	12	09/07/1974	7.00	09/07/1974	I	1120KES	SAND, MEDIUM TO FINE	--	1314
130-059-24AAA	NDSWC 9427	180	--	--	--	08/26/1975	--	--	U	--	--	--	1310
130-059-24DDD1	NDSWC 9428	180	--	--	--	08/27/1975	--	--	U	--	--	--	1311
130-059-24DDD2	NDSWC 9428A	60	36	33	1.25	08/27/1975	2.34	09/11/1975	U	1120KES	SAND	340	1311
130-059-25BBB	USBR W-54	--	9	4	3	07/ /1966	6.00	09/ /1973	U	1120KES	SAND	--	1312
130-059-25CBC	HANSEN, LARRY	15	15	--	1.25	05/20/1974	3.00	07/29/1975	H	1120KES	SAND	2000	1313
130-059-25CBD	HANSEN, LARRY	15	15	--	1.25	1957	3.00	07/29/1975	S	1120KES	SAND	2250	1313
130-059-25CCB	USBR W-61	--	10	4	3	07/ /1966	9.00	09/ /1973	U	1120KES	SAND	--	1313
130-059-26BAD	FREELAND, WILLIAM	45	--	--	--	10/04/1974	--	--	U	--	--	--	--
130-059-26BDB	FREELAND, WILLIAM	35	--	--	--	10/04/1974	--	--	U	--	--	--	--
130-059-26CAC	HANSEN, LARRY	--	--	--	--	--	--	--	I	--	--	630	--
130-059-26CAD	HANSEN, LARRY	50	--	--	--	--	--	--	I	--	--	630	--
130-059-26CCC	USBR W-60	20	11	4	3	06/15/1966	9.80	09/06/1973	U	1120KES	SAND	--	1312
130-059-27DBD	LOCKEN, DAVID	140	--	--	--	09/18/1974	6.00	09/18/1974	U	--	--	--	1309
130-059-27DCC	LOCKEN, DAVID	40	--	--	--	09/18/1974	6.00	09/18/1974	U	--	--	--	1310

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130-059-27DD0	USBR OAKES-33	80	--	--	--	03/29/1951	7.40	03/29/1951	U	1120KES	SAND	--	1310
130-059-28AAA1	STREICH, ORRIN	80	--	--	--	04/05/1973	--	--	U	--	--	--	--
130-059-28AAA2	TRINKA, LESTER	30	--	--	--	09/17/1974	6.00	09/17/1974	U	1120KES	SAND	--	1309
130-059-28ABA	TRINKA, LESTER	30	--	--	--	09/17/1974	6.00	09/17/1974	U	--	--	--	1305
130-059-28ACA1	TRINKA, LESTER	30	--	--	--	09/17/1974	6.00	09/17/1974	U	--	--	--	1305
130-059-28ACA2	TRINKA, LESTER	27	--	--	--	02/26/1976	6.00	02/26/1976	U	1120KES	SAND	--	1305
130-059-28ACD	TRINKA, LESTER	30	--	--	--	02/26/1976	6.00	02/26/1976	U	--	--	--	1305
130-059-28ADA	TRINKA, LESTER	30	--	--	--	09/17/1974	6.00	09/17/1974	U	1120KES	--	--	1305
130-059-28BBB	USBR W-51	20	14	4	3	07/05/1966	7.20	09/06/1973	U	1120KES	SAND	--	1306
130-059-28CAC	TRINKA, LESTER	33	--	--	--	02/26/1976	--	--	U	--	--	--	--
130-059-28CAD1	TRINKA, LESTER	35	--	--	--	09/18/1974	6.00	09/18/1974	U	1120KES	SAND	--	1307
130-059-28CAD2	TRINKA, LESTER	33	33	18	16	06/28/1975	4.00	06/28/1975	I	1120KES	--	--	1307
130-059-28CAD3	TRINKA, LESTER	30	--	--	--	02/26/1976	--	--	U	--	--	--	1307
130-059-28CCC	USBR W-58	15	9	--	3	07/01/1966	7.00	09/06/1973	U	1120KES	SAND	--	1304
130-059-28CDA	TRINKA, LESTER	33	--	--	--	02/26/1976	--	--	U	--	--	--	--
130-059-28DAA1	USBR W-55	--	7	4	3	07/ /1966	7.00	09/ /1973	U	1120KES	SAND	--	1307
130-059-28DAA2	STREICH, ORRIN	90	--	--	--	04/05/1973	--	--	U	--	--	--	--
130-059-28DAB	STREICH, ORRIN	160	--	--	--	04/05/1973	--	--	U	--	--	--	--
130-059-29AAB	TRINKA, LESTER	25	--	--	--	11/06/1974	--	--	U	--	--	--	--
130-059-29AAD	TRINKA, LESTER	35	--	--	--	11/06/1974	--	--	U	--	--	--	--
130-059-29ABA	TRINKA, LESTER	30	--	--	--	09/18/1974	6.00	09/18/1974	U	--	--	--	1306
130-059-29ABB	TRINKA, LESTER	20	--	--	--	11/06/1974	--	--	U	--	--	--	--
130-059-29ACA	TRINKA, LESTER	25	--	--	--	11/06/1974	--	--	U	--	--	--	--
130-059-29ACB	TRINKA, LESTER	35	--	--	--	11/06/1974	--	--	U	--	--	--	--
130-059-29CAA	HOKANA, STANLEY	35	--	--	--	10/18/1974	--	--	U	--	--	--	--
130-059-29CAB	HOKANA, STANLEY	30	--	--	--	10/18/1974	--	--	U	--	--	--	--
130-059-29CAC	HOKANA, STANLEY	130	--	--	--	04/05/1974	6.00	04/05/1974	U	--	--	--	1306
130-059-29CBC	HOKANA, STANLEY	30	--	--	--	10/18/1975	--	--	U	--	--	--	--
130-059-29CCC	USBR W-57	20	11	4	3	07/01/1966	10.80	09/06/1973	U	1120KES	SAND	--	1306
130-059-29CDA	HOKANA, STANLEY	22	--	--	--	10/18/1974	--	--	U	--	--	--	--
130-059-29CDB	HOKANA, STANLEY	30	--	--	--	10/18/1974	--	--	U	--	--	--	--
130-059-29DDD	USBR OAKES-7	68	--	--	--	01/05/1951	6.70	01/05/1951	U	1120KES	SAND	--	1304
130-059-30ABA	HOKANA BROS	60	--	--	--	04/04/1974	--	--	U	--	--	--	--
130-059-30ACA	HOKANA BROS	60	--	--	--	04/04/1974	--	--	U	--	--	--	--
130-059-31CDD	USBR W-63	13	13	--	3	06/15/1966	7.60	02/22/1972	U	1120KES	SAND	--	1301
130-059-31DDB	HANSEN, GLEN	80	--	--	--	09/18/1974	--	--	U	--	--	--	--
130-059-32DDD	USBR OAKES-8	80	23	--	1.25	01/10/1951	7.80	01/10/1951	U	1120KES	SAND	--	1304
130-059-33ABD1	THORPE, LARRY	30	30	15	12	05/08/1975	--	--	I	1120KES	SAND, MEDIUM	--	--
130-059-33ABD2	THORPE, LARRY	31	31	16	12	05/08/1975	7.00	05/08/1975	I	1120KES	SAND, MEDIUM	--	--
130-059-34BBB	USBR W-59	20	9	4	3	06/15/1966	8.50	09/06/1973	U	1120KES	SAND	--	1308

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130-059-34CCC	USBR W-65	--	13	4	3	1966	9.90	09/06/1973	U	1120KES	SAND	--	1309
130-059-35888	NDSWC 9429	180	--	--	--	08/27/1975	--	--	U	--	--	--	1311
130-059-35DAD	HANSEN, LARRY	30	--	--	--	10/08/1974	--	--	U	--	--	--	--
130-059-35DBD	HANSEN, LARRY	30	--	--	--	10/08/1974	--	--	U	--	--	--	--
130-059-35DDD	USBR W-67	--	5	4	3	1966	--	--	U	1120KES	SAND	--	1310
130-059-36AAA	USBR OAKES-34	95	--	--	--	04/03/1951	8.40	04/03/1951	U	1120KES	SAND	--	1314
130-059-36CCC	USBR OAKES-35	90	--	--	--	04/02/1951	9.80	04/ /1951	U	1120KES	SAND	--	1311
130-059-36DDD	USBR W-68	--	6	4	3	1966	--	--	U	1120KES	SAND	--	1311
130-060-11C8C	THORPE, LARRY	98	--	88	4	10/21/1974	25.00	10/21/1974	H	--	--	2200	1375
130-060-12888	USBR W-70	18	18	--	3	06/12/1966	10.10	02/22/1972	U	1120KES	SAND	--	1307
130-060-12CCC	USBR W-30	--	8	4	3	1966	--	--	U	--	--	--	1305
130-060-13C8C	STREICH, ORRIN	80	--	--	--	02/24/1975	--	--	U	--	--	--	--
130-060-13CDD	STREICH, ORRIN	80	--	--	--	02/24/1975	--	--	U	--	--	--	--
130-060-13DDD	USBR W-36	--	9	4	3	1966	--	--	U	--	--	--	1307
130-060-17DAA	FORWARD, G.	--	50	--	24	1956	--	--	H	--	SAND	1900	--
130-060-24ACA	HANSEN, VIRNUM	80	--	--	--	10/02/1974	--	--	U	--	--	--	--
130-060-25AAA	USBR W-49	15	15	--	3	07/ /1966	8.80	02/22/1972	U	1120KES	SAND	--	1299
130-060-25BAC	THORPE, LARRY	130	--	--	--	09/17/1974	--	--	U	--	--	--	--
130-060-25BAD	THORPE, LARRY	100	--	--	--	09/17/1974	--	--	U	--	--	--	--
130-060-25BBB	USBR	--	12	4	3	1966	--	--	U	1120KES	SAND	--	1299
130-060-25B8C	THORPE, LARRY	80	--	--	--	10/21/1974	--	--	U	--	--	--	--
130-060-25DDD	USBR W-56	15	15	--	3	06/15/1966	1.00	05/25/1972	U	1120KES	SAND	--	1292
130-060-33AAC1	THORPE, LARRY	35	35	20	4	09/17/1974	5.00	07/17/1975	I	--	--	--	1364
130-060-33AAC2	THORPE, LARRY	35	--	--	--	09/17/1974	5.00	07/17/1975	U	--	--	--	1364
130-060-33ABD1	THORPE, LARRY	35	--	--	--	10/17/1974	--	--	U	--	--	--	--
130-060-33ABD2	THORPE, LARRY	40	--	20	4	09/17/1974	5.00	07/17/1975	I	--	--	--	1366
130-061-07ACA	WERRE, DENNIS	120	--	--	--	09/24/1974	--	--	U	--	--	--	--
130-061-07ACC	WERRE, DENNIS	102	--	--	--	09/24/1974	--	--	U	--	--	--	--
130-061-11C8C	GERMAN, MICK	146	146	136	4	10/04/1976	27.00	10/04/1976	U	--	--	--	--
130-061-11C8C	NDSWC 9831	100	--	--	--	11/04/1976	--	--	U	112GLPH	--	--	1487
130-061-11C8C1	NDSWC 9832	180	154	151	1.25	11/05/1976	31.58	11/30/1976	U	112GLPH	1800	1397	
130-061-11C8C2	NDSWC 9832A	140	126	123	1.25	11/08/1976	31.55	11/30/1976	U	112GLPH	1875	1397	
130-061-148881	NDSWC 9833	300	--	--	--	11/09/1976	--	--	U	--	--	--	1407
130-061-148882	NDSWC 9833A	80	71	68	1.25	11/16/1976	24.43	11/30/1976	U	112GLPH	--	1407	
130-061-16AAA	NDSWC 9834	300	--	--	--	11/16/1976	--	--	U	--	--	--	1380
130-061-16888	NDSWC 5640	140	--	--	--	05/13/1970	--	--	U	--	--	--	1415
130-061-17C8C	NDSWC 5627	300	103	97	1.25	05/06/1970	17.46	08/03/1970	U	112ELDL	SAND	--	1415
130-061-25ACA	SELL, RUDOLPH	1290	1250	1200	2	01/26/1974	115.00+	01/26/1974	S	2170KDT	SNDS	3000	1370
130-061-28CCA	VIETZKE, H.	68	68	63	18	11/04/1972	12.00	11/04/1972	S	112ELDL	SAND	--	--
130-061-28CCB	VIETZKE, H.	--	--	--	2	--	--	--	F	H,S	--	--	--

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130-061-28CCC	NDSWC 5639	160	--	--	--	05/13/1970		--	U	--		--	1405
130-061-29888	NDSWC 5626	160	80	77	1.25	05/06/1970	18.00	07/27/1971	U	112EJDL	SAND	--	1410
130-061-30888	NDSWC 5625	180	80	77	1.25	05/06/1970	9.53	07/23/1970	U	112EJDL	SAND	--	1408
130-061-31888	NDSWC 5624	160	80	77	1.25	05/05/1970	10.30	08/03/1970	U	112EJDL	SAND	--	1408
130-061-31000	NDSWC 5623	300	--	--	--	05/05/1970		--	U	--		--	1418
130-061-34888	NDSWC 9835	320	--	--	--	11/17/1976		--	U	--		--	1385
130-062-10000	NDSWC 5629	160	100	97	1.25	05/05/1970	19.46	08/03/1970	U	112EJDL	SAND	--	1415
130-062-12CAC	GRUNEICH, ALBERT	120	105	99	4	09/19/1974	30.00	09/19/1974	U	112EJDL	SAND, FINE	--	1415
130-062-12000	NDSWC 5628	160	100	97	1.25	05/06/1970	16.58	08/03/1970	U	112EJDL	SAND	--	1410
130-062-15 A08	HENNINGSSEN, C.	1326	1326	1263	2	11/04/1975		--	H,S	217DKOT	SNDS	1800	1410
130-062-15888	NDSWC 5630	260	--	--	--	05/07/1970		--	U	--		--	1415
130-062-15C88	HUTTERITE BRETH	--	1375	1300	2	04/11/1969		--	H,S	217DKOT	SNDS	5900	1417
130-062-22000	NDSWC 5259	200	--	--	--	12/10/1968		--	U	--		--	1407
130-062-23000	NDSWC 5631	180	80	77	1.25	05/07/1970	11.82	08/03/1970	U	112EJDL	SAND	--	1410
130-062-24000	NDSWC 5260	200	--	--	--	12/10/1968		--	U	--		--	1415
130-062-25CCD1	NDSWC 5646	140	70	67	1.25	05/15/1970	5.77	08/03/1970	U	112EJDL	SAND, MED.	--	1401
130-062-25CCD2	ELLENDALE, ND	125	113	68	10	06/17/1971	9.00	06/17/1971	P	112EJDL	SAND	1400	--
130-062-25DAB	NDSWC 5261	200	60	57	1.25	12/11/1968	4.71	08/03/1970	U	112EJDL	SAND	--	1396
130-062-25DCC	NDSWC 5256	200	100	97	1.25	12/09/1968	13.20	07/23/1970	U	112EJDL	SAND	--	1410
130-062-25000	NDSWC 5645	160	70	67	1.25	05/15/1970	8.73	08/03/1970	U	112EJDL	SAND	--	1403
130-062-26CCC	NDSWC 5255	220	160	157	1.25	12/05/1968	9.24	05/13/1970	U	112EJDL	SAND	--	1405
130-062-260CC	NDSWC 5147	300	180	177	1.25	08/28/1968		--	U	112EJDL	SAND	--	1390
130-062-26000	NDSWC 5148	300	70	67	1.25	08/29/1968	7.40	07/23/1970	U	112EJDL	SAND	--	1404
130-062-270AA	NDSWC 5632	140	--	--	--	05/07/1970		--	U	--		--	1410
130-062-3000C	NDSWC 5160	40	--	--	--	09/04/1968		--	U	--		--	1420
130-062-30000	NDSWC 5161	60	--	--	--	09/04/1968		--	U	--		--	1418
130-062-340AA	NDSWC 5633	180	--	--	--	05/08/1970		--	U	--		--	1403
130-062-350AD	BARTON, ROBERT	40	40	32	18	08/21/1974	20.00	07/17/1975	S,H	112EJDL	SAND, GRAVEL	2950	1385
130-062-35080	NDSWC 5258	200	--	--	--	12/10/1968		--	U	--		--	1402
130-062-368AA	ELLENDALE 4	--	130	60	12	04/02/1971	14.00	07/07/1971	P	112EJDL	SAND	--	--
130-062-36CC81	NDSWC 5647	140	80	77	1.25	05/18/1970	4.25	07/23/1970	U	112EJDL	SAND	--	1399
130-062-36CC82	NDSWC 5649	140	83	77	1.25	05/19/1970	4.19	07/23/1970	U	112EJDL	SAND	--	1401
130-062-36CC83	NDSWC TEST WELL	103	100	60	8	--		--	U	112EJDL	SAND	--	1399
130-062-36CCD	NDSWC 5648	140	83	77	1.25	05/18/1970	4.92	07/23/1970	U	112EJDL	SAND	--	1400
130-062-360AA1	NDSWC 5643	140	80	77	1.25	05/15/1970		--	U	112EJDL	SAND	--	1410
130-062-360AA2	NDSWC 5644	160	--	--	--	05/15/1970		--	U	--		--	1405
130-062-36000	NDSWC 5622	160	80	77	1.25	05/05/1970	9.39	07/23/1970	U	112EJDL	SAND	--	1405
130-063-0388C	GRUNEICH, MARVIN	30	30	22	18	12/17/1974	12.00	07/17/1975	S	--		950	1485
130-063-088BA	HATFIELD, GEORGE	38	38	37	18	08/20/1974	13.45	08/06/1975	H	--		--	1495
130-063-2000C	TANK, R.	--	1200	1140	2	07/18/1973		--	F	217DKOT	SNDS	4400	1490

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130-063-22ADD	NICHOLSON, CLIFFORD	39	39	38	18	10/11/1974	21.00	10/11/1974	H	--		--	1480
130-063-23AAA	NDSWC 5111	160	--	--	--	08/19/1968			U	--		--	1467
130-063-25BBB	NDSWC 5112	140	--	--	--	08/19/1968			U	--		--	1461
130-063-32AAA	NDSWC 5114	80	--	--	--	08/19/1968			U	--		--	1484
130-063-34DD	SMWEN GIBSON I	1898	--	--	--	09/28/1954			U	--		--	1455
130-063-350AA1	NDSWC 5176	40	--	--	--	09/05/1968			U	--		--	1455
130-063-350AA2	NDSWC 5174	40	--	--	--	09/05/1968			U	--		--	1450
130-063-35DAD	NDSWC 5175	40	--	--	--	09/05/1968			U	--		--	1452
130-063-36BBB	NDSWC 5113	140	--	--	--	08/19/1968			U	--		--	1457
130-063-36CCD	SEEFRIED, GORDON	60	60	59	18	10/04/1974	20.00	10/04/1974	H	--		--	1450
130-064-13BBB	NDSWC 9157	60	--	--	--	10/09/1974			U	--		--	1515
130-064-13COC	MILLER, HERBERT	43	43	42	18	10/09/1974	30.00	10/09/1974	S	112BGFV	SAND	--	--
130-064-17BBB	NDSWC 9510	60	--	--	--	11/13/1975			U	--		--	1580
130-065-07BBA	BRANDENBURGER, J.	--	20	--	24	1915			H,S			600	--
130-065-11CAB	WALLACE, B.	--	1670	1610	2	08/22/1970			H,S	217DKOT	SANDS	2500	1630
130-065-16DA	QUAST, WALTER	1491	1491	1341	4	10/05/1974			H,S	217DKOT	SANDS	4250	--
130-065-24DDD	BRANDENBURGER, T.	--	160	--	3	1944	163.00	10/05/1974	H,S	211PIRR	SAND	6000	--
130-065-29ADD	NDSWC 9160	40	--	--	--	10/09/1974			U	--		--	1700
130-066-05DCD	HERMAN, J.	62	62	57	24	06/12/1973	35.00	06/12/1973	H,S	112BGFV	SAND	--	--
130-066-07DAA	NDSWC 9162	240	91	88	1.25	10/10/1974	9.00+	11/20/1975	U	112BGFV	SAND	750	1985
131-059-01CCC	NDSWC 9825	220	175	172	1.25	10/22/1976	19.10	10/22/1976	U	112SPRD	SAND	1420	1335
131-059-01DDA	NDSWC 4871	200	166	163	1.25	10/22/1975	13.97	05/13/1976	U	112SPRD	SAND	1530	1328
131-059-02AAA	NDSWC 9129	200	161	158	1.25	09/26/1974	0.814	05/14/1975	U	112SPRD	SAND	1280	1314
131-059-02BAD	USBR W-129	--	11	4	3	08/ /1967	10.00	12/ /1971	U	--		--	1313
131-059-03BBB	NDSWC 9130	240	184	178	1.25	09/26/1974	0.35+	05/14/1975	U	112SPRD	SAND	--	1328
131-059-04AAD	ANDERSON BROS	157	157	151	4	11/ /1972			H,S	112SPRD	SAND	1500	--
131-059-04ACA	LOCKEN, DAVID	160	--	--	--	04/08/1974	10.00	04/08/1974	U	--		--	1333
131-059-04BDB	LOCKEN, DAVID	190	--	--	--	04/08/1974	10.00	04/08/1974	U	--		--	1340
131-059-05BBB	NDSWC 9131	200	161	158	1.25	09/26/1974	17.73	01/23/1975	U	112SPRD	SAND	1220	1349
131-059-05DDD	USBR OAKES-38	30	--	--	--	04/06/1951	5.40	04/ /1951	U	112OKES	SAND	--	1308
131-059-06BBB	NDSWC 9132	140	118	112	1.25	09/26/1974			U	112SPRD	SAND	1800	1292
131-059-08DDD	GIBSON, TOM	30	30	22	2	10/20/1972	12.00	10/20/1972	H	112OKES	SAND, COARSE	--	1330
131-059-09ABC	WIESE, RAY	160	--	--	--	10/09/1974			U	--		--	--
131-059-09BAD	WIESE, RAY	101	100	80	16	07/17/1975	22.00	07/17/1975	I	112OKES	SAND, GRAVEL	550	--
131-059-09CCB	PODALAK, ERNIE	30	30	22	2	10/03/1974	15.00	10/03/1974	H	112OKES	SAND, MEDIUM	530	1335
131-059-09DBD	JACOBSON, DARL	160	--	--	--	10/09/1974			U	--		--	--
131-059-10BBA	NDSWC 9823	220	199	196	1.25	10/21/1976	14.33	10/27/1976	U	112SPRD	SAND, GRVLY	--	1345
131-059-11BBB	NDSWC 9824	220	194	188	1.25	10/21/1976	25.38	10/27/1976	U	112SPRD	SAND	--	1340
131-059-12CCC	NDSWC 9826	260	211	208	1.25	10/26/1976	57.53	10/27/1976	U	112SPRD	GRVL, SANDY	--	1364
131-059-13DAA	USBR W-1	--	18	4	3	1966	14.00	09/ /1973	U	112OKES	SAND	--	1332

LOCAL NUMBER	OWNER	DEPTH DRILLED (FEET)	DEPTH OF WELL (FEET)	DEPTH TO FIRST OPENING (FEET)	CASING DIAMETER (INCHES)	DATE COMPLETED	WATER LEVEL (FEET)	DATE WATER MEASURED	USE OF WATER	PRINCIPAL AQUIFER	LITHOLOGY OF PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25°C)	ALTITUDE OF LAND SURFACE (FEET)
131-059-14CAC	KNUTSON, CURT	215	--	--	--	09/24/1974	--	--	U	--	--	--	--
131-059-15AAA1	NDSWC 9122	220	194	188	1.25	09/20/1974	31.06	01/23/1975	U	112SPRD	SAND	1400	1348
131-059-15AAA2	NDSWC 9122A	60	47	44	1.25	09/20/1974	31.45	01/23/1975	U	112OKES	SAND	--	1348
131-059-15BBB	NDSWC 9121	220	184	178	1.25	09/20/1974	39.65	01/23/1975	U	112SPRD	SAND	1500	1342
131-059-15DD8	RONEY, DENNIS	168	--	--	--	01/31/1975	--	--	U	--	--	--	--
131-059-16AAB	STREICH, ORRIN	60	--	--	--	04/10/1974	--	--	U	--	--	--	--
131-059-16ACC	STREICH, ORRIN	190	--	--	--	04/10/1974	--	--	U	--	--	--	--
131-059-16CC21	USBR OAKES-36	30	--	--	--	04/03/1951	--	--	I	112OKES	SAND	--	1322
131-059-16CC22	STREICH, ORRIN	--	204	180	20	--	25.00	--	I	112SPRD	SAND	1200	--
131-059-17AAA1	NDSWC 9120	160	--	--	--	09/19/1974	--	--	U	--	--	--	1333
131-059-17AAA2	NDSWC 9120A	40	28	25	1.25	09/20/1974	19.01	01/23/1975	U	112OKES	SAND	--	1333
131-059-17ACA	SCHMIDT, A. & M.	140	--	--	--	04/09/1974	--	--	U	--	--	--	--
131-059-17DAA	USBR W-1	20	--	--	3	06/08/1966	17.20	05/25/1972	U	--	--	--	1331
131-059-17DCC	NDSWC 9827	160	124	121	1.25	10/26/1976	--	--	U	112OKES	SAND	910	1304
131-059-17DDC1	USBR OAKES-OHA	80	75	--	1.25	04/19/1951	--	--	U	112OKES	SAND	--	1330
131-059-17DDC2	USBR OAKES-OHC	80	76	--	1.25	04/20/1951	--	--	U	112OKES	SAND	--	1330
131-059-17DDC3	USBR OAKES-OHD	80	75	--	1.25	04/20/1951	--	--	U	112OKES	SAND	--	1329
131-059-17DDC4	USBR OAKES-OHF	80	75	--	1.25	04/19/1951	--	--	U	112OKES	SAND	--	1327
131-059-17DDC5	USBR OAKES-OHG	80	76	--	--	04/20/1951	--	--	U	112OKES	SAND	--	1330
131-059-20AAA1	NDSWC 9118	220	174	168	1.50	09/19/1974	32.27	01/23/1975	U	112SPRD	SAND	--	1330
131-059-20AAA2	NDSWC 9118A	100	86	83	1.50	09/19/1974	30.25	01/23/1975	U	112OKES	SAND	670	1330
131-059-21AAA1	USBR OAKES-60	33	--	--	--	12/31/1953	21.70	12/31/1953	U	112OKES	SAND	--	1329
131-059-21AAA2	NDSWC 9119	160	--	--	--	09/19/1974	--	--	U	--	--	--	1328
131-059-21ACA1	STREICH, ORRIN	160	37	30	8	04/28/1973	--	--	N	112OKES	SAND, COARSE	940	--
131-059-21ACA2	STREICH, ORRIN	190	--	--	--	04/04/1973	--	--	U	--	--	--	--
131-059-21ADC1	USBR OAKES-63	163	--	--	--	01/05/1952	23.00	01/ /1952	U	--	--	--	1327
131-059-21ADC2	STREICH, ORRIN	190	--	--	--	04/04/1973	--	--	U	--	--	--	--
131-059-22AAA	USBR OAKES-65	233	--	--	--	01/08/1953	44.80	01/08/1953	U	112OKES	SAND	--	1353
131-059-22ABC	RONEY, DENNIS	224	224	199	16	05/22/1973	28.50	05/22/1973	I	112SPRD	GRVL, SAND	--	1314
131-059-22ACA1	RONEY, DENNIS	225	--	--	--	01/31/1973	30.00	01/31/1973	U	--	--	--	--
131-059-22ACA2	RONEY, DENNIS	222	--	--	--	01/31/1973	30.00	01/31/1973	U	--	--	--	--
131-059-22ACA3	RONEY, DENNIS	240	--	--	--	04/06/1973	--	--	U	--	--	--	--
131-059-22ACC	USBR OAKES-5	170	--	--	--	03/10/1954	25.00	03/15/1954	U	112SPRD	SAND	--	--
131-059-22ADD	USBR OAKES-59	63	--	--	--	12/30/1952	--	--	U	--	--	--	1348
131-059-22BAA1	USBR OAKES-43	105	--	--	--	05/01/1951	30.00	05/ /1951	U	112OKES	SAND	--	1340
131-059-22BAA2	NDSWC 9775	212	203	200	1.25	09/15/1976	38.24	09/17/1976	U	112SPRD	SAND, GRVLY	520	1338
131-059-22BAA3	NDSWC 9774	226	216	213	1.25	09/14/1976	32.39	09/17/1976	U	112SPRD	SAND, GRVLY FROM 204 FT	725	--
131-059-22BDA1	NDSWC 9773	240	218	215	1.25	09/14/1976	30.97	09/17/1976	U	112SPRD	GRVLY, SANDY	605	--
131-059-22BDA2	NDSWC 9772	239	215	212	1.25	09/13/1976	28.85	09/17/1976	U	112SPRD	SAND, 50% GRVL FRM 209 FT	610	--
131-059-22BDC	USBR OAKES-64	183	--	--	--	12/31/1952	19.10	12/31/1952	U	--	--	--	1325

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131-059-228DD	RONEY, DENNIS	232	--	--	--	02/26/1973	13.00	02/26/1973	U	--	--	--	--
131-059-22CCA	RONEY, PAUL	--	172	--	--	01/01/1950	--	--	I	112SPRD	SAND	580	--
131-059-22CDD	USBR OAKES-42	74	--	--	--	05/02/1951	--	--	U	112OKES	SAND	--	1324
131-059-220BC	USBR OAKES-6	125	--	--	--	03/16/1954	20.00	03/16/1954	U	--	--	--	--
131-059-220BD	VCULEK, FRANK	160	--	--	--	09/19/1974	--	--	U	--	--	--	--
131-059-220CA	VCULEK, FRANK	157	157	137	16	11/ /1974	28.00	11/ /1974	I	112SPRD	SAND, GRAVEL	725	1325
131-059-220DD1	USBR 58	43	--	--	--	12/23/1952	32.90	12/23/1952	U	112OKES	SAND	--	1342
131-059-220DD2	USBR OAKES-71	165	--	--	--	03/30/1954	32.10	03/30/1954	U	--	--	--	1341
131-059-23AA	MALMBERG, STAN	34	34	28	4	11/16/1974	15.00	11/16/1974	S	112OKES	SAND	1175	1310
131-059-23AAA	USBR OAKES-69	198	--	--	--	03/08/1954	28.60	03/23/1954	U	112SPRD	SAND	--	1339
131-059-24CDC	MALMBERG, STAN	50	50	44	2	11/ /1972	27.00	11/18/1972	U	112OKES	SAND	--	--
131-059-26AAA	USBR OAKES-70	112	--	--	--	03/29/1954	17.50	03/29/1954	U	112OKES	SAND	--	1324
131-059-268CR1	NDSWC 9423	180	--	--	--	08/26/1975	--	--	U	--	--	--	1340
131-059-268CR2	NDSWC 9423A	60	46	43	1.25	08/26/1975	37.30	09/11/1975	U	112OKES	SAND	--	1340
131-059-27ABB	USBR 3	--	20	4	3	1966	17.00	--	U	112OKES	SAND	--	1324
131-059-27ABC	SCHMIDT, A. & M.	160	--	--	--	04/09/1974	--	--	U	--	--	--	--
131-059-27ACA1	SCHMIDT, A. & M.	150	--	--	--	04/09/1974	--	--	U	--	--	--	--
131-059-27ACA2	SCHMIDT, A. & M.	152	152	72	16	06/12/1975	--	--	I	112OKES	SAND, GRAVEL	--	--
131-059-27ADD	USBR OAKES-57	82	--	--	--	12/22/1952	22.10	12/ /1952	U	112OKES	SAND	--	1327
131-059-2788R1	USBR W-2	20	18	4	3	07/14/1966	9.70	05/25/1972	U	112OKES	SAND	--	1315
131-059-2788B2	USBR W-2A	23	23	17	2	09/30/1975	9.95	10/28/1975	U	112OKES	SAND	--	1315
131-059-278CB	USBR W-4	20	20	4	3	06/15/1966	9.00	09/06/1973	U	112OKES	SAND	--	1313
131-059-27CCC1	USBR A-8	--	15	--	3	1967	14.00	09/ /1973	U	112OKES	SAND	--	1313
131-059-27CCC2	USBR A-9	--	17	--	1	1969	13.00	09/ /1973	U	112OKES	SAND	--	1312
131-059-27CCC3	USBR A-10	--	17	--	1	1971	11.00	09/ /1973	U	112OKES	SAND	--	1311
131-059-27CCC4	USBR A-11	--	8	--	1	1967	--	--	U	112OKES	SAND	--	1312
131-059-27CDA	USBR W-124	--	8	4	3	1967	--	--	U	112OKES	SAND	--	1313
131-059-27CDC	USBR W-14	--	9	4	3	1966	--	--	U	112OKES	SAND	--	1313
131-059-270AD	VCULEK, FRANCIS	60	--	--	--	09/14/1974	--	--	U	--	--	--	--
131-059-270BB	USBR OAKES-54	100	--	--	--	06/17/1952	10.00	06/17/1952	U	112OKES	SAND	--	1314
131-059-270BC	REHOVSKY, L.	70	70	--	16	1971	11.00	1971	I	112OKES	SAND	480	--
131-059-270CC1	USBR W-15	20	18	4	3	07/19/1966	8.50	02/22/1972	U	112OKES	SAND	--	1310
131-059-270CC2	USBR W-15A	18	18	12	2	09/30/1975	9.83	10/28/1975	U	112OKES	SAND	--	1310
131-059-270DC	USBR W-16	--	20	4	3	1966	13.00	09/ /1973	U	112OKES	SAND	--	1314
131-059-270DD1	USBR OAKES-28	80	66	--	--	03/15/1951	7.70	03/15/1951	U	112OKES	--	--	1310
131-059-270DD2	USBR	--	18	12	2	09/29/1975	--	--	U	112OKES	SAND	--	1310
131-059-270DD3	USBR W-17	30	20	--	--	06/22/1966	6.60	02/22/1972	U	112OKES	SAND	--	1310
131-059-28ABC	USBR OAKES-61	63	--	--	--	01/09/1953	6.90	01/09/1953	U	112OKES	SAND	--	1307
131-059-28ACC	USBR W-3	20	9	4	3	06/ /1966	7.10	09/06/1973	U	112OKES	SAND	--	1308
131-059-28ACD	HUEBNER, WILLIAM	198	--	--	--	09/20/1974	6.00	09/20/1974	U	112OKES	SAND	--	1305

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131-059-28ADC	USBR W-6	20	20	--	3	06/25/1966	7.50	02/22/1972	U	1120KES	SAND	--	1310
131-059-28BA	OAKES	--	24	--	1.50	05/15/1940	10.47	06/21/1940	U	1120KES	SAND	--	1313
131-059-28CAD	HUEBNER, WILLIAM	42	42	17	16	06/13/1975	--	--	I	1120KES	SAND, MEDIUM TO COARSE	730	--
131-059-28CCB	SWANSON'S GRNHSE	63	63	50	4	06/23/1974	18.00	06/23/1974	I	1120KES	SAND, COARSE	--	1315
131-059-28CCC	USBR 13	--	7	4	3	1966	--	--	U	--	--	--	1306
131-059-28DAA	USBR A-14	--	20	--	1	1969	11.00	09/ /1973	U	--	--	--	1311
131-059-28DBD	HUEBNER, WILLIAM	41	41	21	16	06/16/1975	--	--	I	1120KES	SAND, MEDIUM TO COARSE	730	--
131-059-28DDA1	USBR A-12	--	20	--	3	09/30/1969	9.50	07/16/1966	U	1120KES	SAND	--	1310
131-059-28DDA2	USBR A-12A	18	18	10	2	09/30/1975	8.92	10/02/1975	U	1120KES	SAND	--	1309
131-059-28DD1	USBR OAKES-41	76	61	--	--	04/10/1951	--	--	U	1120KES	--	--	1310
131-059-28DDD2	USBR W-12	20	20	--	3	06/22/1966	11.40	02/22/1972	U	1120KES	SAND	--	1314
131-059-29AAB	CITY OF OAKES	--	58	--	12	1946	16.00	--	P	1120KES	SAND	--	1310
131-059-29ABC	OAKES 1	--	58	--	12	1946	16.00	--	P	1120KES	SAND	780	1310
131-059-29ADC	OAKES 2	--	58	--	24	1949	16.00	--	P	1120KES	SAND	770	1329
131-059-29DCD	USBR W-7	--	20	4	3	1966	12.00	09/ /1973	U	1120KES	SAND	--	1310
131-059-29DDA	USBR W-127	--	16	4	3	1967	--	--	U	1120KES	SAND	--	1316
131-059-29DDD	USBR W-8	20	20	--	3	06/22/1966	13.50	02/22/1972	U	1120KES	SAND	--	1312
131-059-32AAA	USBR OAKES-37	68	--	--	--	04/04/1951	--	--	U	1120KES	SAND	--	1309
131-059-32ADD	USBR OAKES-27	70	54	--	1	03/14/1951	--	--	U	1120KES	SAND	--	1311
131-059-32DCC	USBR W-20	--	19	4	3	1966	10.00	--	U	1120KES	SAND	--	1302
131-059-33AAA	USBR OAKES-1	45	--	--	--	06/18/1952	6.50	06/18/1952	U	1120KES	SAND	--	1310
131-059-33ABA	USBR W-11	--	9	4	3	1966	--	--	U	1120KES	SAND	--	1308
131-059-33AB8	USBR OAKES-55	55	--	--	--	12/22/1952	8.80	12/19/1952	U	1120KES	SAND	--	1310
131-059-33ABC1	USBR W-125	--	8	4	3	1967	--	--	U	1120KES	SAND	--	1310
131-059-33ABC2	LOCKEN, DAVID	55	--	--	--	09/19/1974	--	--	U	--	--	--	--
131-059-33ACB	LOCKEN, DAVID	56	56	16	16	11/ /1974	11.00	11/ /1974	I	1120KES	SAND	750	1310
131-059-33ADD1	USBR W-18	20	18	4	3	07/09/1966	10.10	02/22/1972	U	1120KES	SAND	--	1311
131-059-33ADD2	USBR W-18A	23	23	17	2	09/30/1975	8.56	10/28/1975	U	1120KES	SAND	--	1312
131-059-33BAA	USBR W-10	--	9	4	3	1966	--	--	U	1120KES	SAND	--	1311
131-059-33BAD	LOCKEN, DAVID	60	--	--	--	09/19/1974	--	--	U	--	--	--	--
131-059-33BBA	USBR W-9	--	10	4	3	1966	7.00	12/ /1971	U	1120KES	SAND	--	1307
131-059-33BBC	USBR W-126	--	12	4	3	1967	--	--	U	1120KES	SAND	--	1312
131-059-33CCC1	USBR	36	--	--	--	12/18/1952	4.60	12/18/1952	U	1120KES	SAND	--	1305
131-059-33CCC2	USBR W-21	20	18	--	3	06/15/1966	7.00	02/22/1972	U	1120KES	SAND	--	1307
131-059-33DAC	MALMBERG, STAN	150	135	125	2.50	10/03/1963	--	--	U	112SPRD	SAND	--	--
131-059-33DAD	MALMBERG, STAN	160	--	--	5	10/04/1964	--	--	U	--	--	--	--
131-059-33DDO1	USBR OAKES-56	46	--	--	--	12/18/1952	5.70	12/ /1952	U	1120KES	SAND	--	1308
131-059-33DDO2	USBR W-22	20	20	--	3	06/18/1966	5.40	02/22/1972	U	1120KES	SAND	--	1307
131-059-34AAC	KNUTSON, CURT	50	--	--	--	11/04/1974	--	--	U	--	--	--	--
131-059-34ABA1	KNUTSON, CURT	60	60	--	--	11/04/1974	--	--	I	1120KES	SAND	925	--

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131-059-34ABA2	KNUTSON, CURT	80	--	--	--	11/04/1974		--	U	--		--	--
131-059-34ACA	KNUTSON, CURT	75	--	--	--	09/23/1974	12.00	09/23/1974	U	--		--	1310
131-059-34BBB1	USBR A-5	--	10	--	3	1967		--	U	1120KES	SAND	--	1316
131-059-34BBB2	USBR A-6	--	14	--	1	1969	9.00	09/ /1973	U	1120KES	SAND	--	1310
131-059-34BBB3	USBR A-7	--	12	--	1	1967	12.00	09/ /1973	U	1120KES	SAND	--	1311
131-059-34BBC1	USBR A-4	--	14	--	1.25	1967	11.14	07/22/1971	U	1120KES	SAND	--	1312
131-059-34BBC2	USBR A-4A	19	19	13	2	09/30/1975	10.77	10/02/1975	U	1120KES	SAND	--	--
131-059-34BBC3	USBR A-3	--	19	13	3	1967		--	U	1120KES	SAND	--	1313
131-059-34BCA1	USBR A-2	--	7	--	3	1967		--	U	1120KES	SAND	--	1308
131-059-34BCA2	USBR A-3A	--	11	--	3	1967		--	U	1120KES	SAND	--	1312
131-059-34BDD	USBR W-123	--	9	4	3	1967		--	U	1120KES	SAND	--	1313
131-059-34CAC	LOCKEN, DAVID	140	--	--	--	09/19/1974		--	U	--		--	--
131-059-34CCC	USBR W-23	--	14	4	3	1966	8.00	09/ /1973	U	1120KES	SAND	750	1310
131-059-34DAB	KNUTSON, CURT	60	60	--	--	11/04/1974		--	I	1120KES	SAND	--	--
131-059-34DBD1	KNUTSON, CURT	70	--	--	--	09/23/1974	12.00	09/23/1974	U	1120KES	SAND	--	1310
131-059-34DBD2	KNUTSON, CURT	50	--	--	--	11/04/1974		--	U	--		--	--
131-059-35ACC	USBR B-14	--	11	4	3	1967	9.00	06/ /1973	U	1120KES	SAND	--	1309
131-059-35BCC	USBR W-19	20	20	--	3	06/20/1966	14.60	02/22/1972	U	1120KES	SAND	--	1317
131-059-35BDD1	USBR B-12	--	14	4	1	1967	7.00	09/ /1973	U	1120KES	SAND	--	1309
131-059-35BDD2	USBR B-13	--	13	4	3	1967	6.00	06/ /1973	U	1120KES	SAND	--	1309
131-059-35CAA1	USBR W-8	--	13	4	1	1967	6.00	10/ /1973	U	1120KES	SAND	--	1307
131-059-35CAA2	USBR W-9	--	14	4	1	1967	6.00	10/ /1973	U	1120KES	SAND	--	1307
131-059-35CAA3	USBR W-10	--	14	4	1	1967	6.00	10/ /1973	U	1120KES	SAND	--	1308
131-059-35CAA4	USBR B-11	--	9	4	1	1967	5.00	10/ /1973	U	1120KES	SAND	--	1309
131-059-35CAC1	USBR W-5	--	12	4	1	1967	7.00	10/ /1973	U	1120KES	SAND	--	1309
131-059-35CAC2	USBR W-6	--	7	4	1	1967	7.00	10/ /1973	U	1120KES	SAND	--	1309
131-059-35CAC3	USBR W-7	--	8	4	1	1967	7.00	10/ /1973	U	1120KES	SAND	--	1308
131-059-35CBB	USBR W-19	--	18	4	3	1966	16.00	--	U	1120KES	SAND	--	1317
131-059-35CCA1	USBR B-1	--	12	4	3	1967	12.00	06/ /1973	U	1120KES	SAND	--	1313
131-059-35CCA2	USBR B-2	--	17	4	1	1967	12.00	10/ /1973	U	1120KES	SAND	--	1312
131-059-35CDB1	USBR W-3	--	12	4	1	1967	9.00	10/ /1973	U	1120KES	SAND	--	1311
131-059-35CDB2	USBR W-4	--	14	4	1	1967	12.00	10/ /1973	U	1120KES	SAND	--	1312
131-059-35CDD	USBR W-122	--	10	4	3	1967	10.00	09/ /1971	U	1120KES	SAND	--	1314
131-059-35DDA1	USBR C-13	--	15	4	3	1967	7.00	09/ /1973	U	1120KES	SAND	--	1310
131-059-35DDA2	USBR C-14	--	15	4	3	1967	9.00	09/ /1973	U	1120KES	SAND	--	1313
131-059-35DDD1	USBR C-10	--	7	4	3	1967	6.00	09/ /1973	U	1120KES	SAND	--	1309
131-059-35DDD2	USBR C-11	--	8	4	3	1967		--	U	1120KES	SAND	--	1310
131-059-35DDD3	USBR C-12	--	9	4	3	1967	6.00	09/ /1973	U	1120KES	SAND	--	1309
131-059-35DDD4	USBR W-29	40	20	--	3	06/01/1966	5.90	02/22/1972	U	--		--	1310
131-059-36BBB	NDSWC 9424	200	61	58	1.25	08/26/1975	35.22	09/11/1975	U	1120KES	SAND	800	1338

LOCAL NUMBER	OWNER	DEPTH DRILLED (FEET)	DEPTH OF WELL (FEET)	DEPTH TO FIRST OPENING (FEET)	CASING DIAM-ETER (INCHES)	DATE COMPLETED	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED	USE OF WATER	PRINCIPAL AQUIFER	LITHOLOGY OF PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25°C)	ALTITUDE OF LAND SURFACE (FEET)
131-060-02888	NDSWC 9133	240	--	--	--	09/27/1974	--	--	U	--	--	--	1369
131-060-03ADD	RODINE, C.	150	150	138	4	11/ /1972	70.00	11/17/1972	H,S	--	--	1250	--
131-060-04888	NDSWC 9134	260	--	--	--	09/27/1974	--	--	U	--	--	--	1390
131-060-06888	NDSWC 9135	280	89	86	1.25	09/30/1974	30.49	01/23/1975	U	--	--	--	1377
131-060-08001	NDSWC 9829	260	--	--	--	11/03/1976	--	--	U	--	--	--	1392
131-060-080002	NDSWC 9829A	60	48	45	1.25	11/03/1976	28.06	11/30/1976	U	112GLPH	--	1180	--
131-060-10A0D	KARAS, HARVEY	65	65	54	4	09/13/1974	14.00	09/13/1974	H,S	--	--	--	1375
131-060-11888	NDSWC 9830	100	--	--	--	11/01/1976	--	--	U	--	--	--	1371
131-060-15ADD	RODINE, TOM	75	75	64	4	09/15/1974	18.00	09/15/1974	H,S	--	--	--	1375
131-060-15CC8	HEGWOOD, E.	88	88	82	1.25	11/03/1972	18.00	11/03/1972	H,S	--	--	800	--
131-060-17CAD	MCCULLOUGH, CALVIN	60	--	--	--	09/16/1974	--	--	U	--	--	--	--
131-060-17CCA	MCCULLOUGH, CALVIN	53	53	--	--	08/ /1970	--	--	H	112GLPH	--	2075	1395
131-060-1708C1	MCCULLOUGH, CALVIN	50	50	--	6	09/16/1974	6.00	09/16/1974	I	112GLPH	--	2850	1375
131-060-1708C2	MCCULLOUGH, CALVIN	60	54	34	16	05/16/1975	8.00	05/16/1975	I	112GLPH	SAND, GRAVEL	2850	--
131-060-1708D	MCCULLOUGH, CALVIN	60	--	--	--	09/16/1974	--	--	U	--	--	--	--
131-060-180001	NDSWC 9828	280	--	--	--	11/02/1976	--	--	U	112GLPH	--	--	1392
131-060-180002	NDSWC 9828A	60	45	43	1.25	11/03/1976	24.28	03/15/1977	U	112GLPH	--	--	1392
131-060-22888	NDSWC 9462	240	--	--	--	10/02/1975	--	--	U	--	--	--	1386
131-060-24C0C	NORWAY ELEVATOR	60	42	36	4	09/17/1974	12.00	09/17/1974	H	--	--	1400	1345
131-060-27A8A	RANDOL, W.	--	1425	1383	2	10/07/1969	F	--	H,S	2170KOT	SNDS	5600	1400
131-060-31000	NDSWC 9461	240	--	--	--	10/02/1975	--	--	U	--	--	--	1375
131-061-060AD	ZIMBLEMAN, H.	--	1150	--	1.50	1960	F	--	H,S	2170KOT	SNDS	6000	--
131-061-12AAA	GUSTAFSON, E.	--	97	--	4	1965	--	--	H,S	112GLPH	--	1650	--
131-061-21CCC	NDSWC 9460	256	--	--	--	10/01/1975	--	--	U	--	--	--	1416
131-061-2300C	SCHUMACKER, T.	1345	1345	1284	2	12/08/1972	277.00+	12/08/1972	S	2170KOT	SNDS	3250	1575
131-061-298881	NDSWC 9459	300	--	--	--	09/30/1975	--	--	U	--	--	--	1405
131-061-298882	NDSWC 9459A	120	81	78	1.25	09/30/1975	9.08	10/07/1975	U	112ELDL	SAND	1750	1405
131-061-29CC8	WEBSTER, W.	--	1138	970	4	06/10/1975	F	--	H,S	2170KOT	SNDS	--	--
131-061-340AA	HARRIS, W.	--	55	--	--	1971	--	--	H,S	--	--	800	--
131-062-07CCC	NDSWC 9138	120	--	--	--	10/01/1974	--	--	U	--	--	--	1450
131-062-15AC8	FULLERTON, ND	--	1090	--	5	1956	4.00+	1956	P	2170KOT	SNDS	5000	1440
131-062-18ABC	GLYNN, KENNETH	--	1429	1372	1.50	08/20/1975	184.00+	--	H,S	2170KOT	SNDS	2250	--
131-062-22CCC	NDSWC 9456	240	--	--	--	09/29/1975	--	--	U	--	--	--	1423
131-062-23C88	NDSWC 9137	260	--	--	--	10/01/1974	--	--	U	--	--	--	1420
131-062-240001	NDSWC 9458	300	196	190	1.25	09/30/1975	14.47	10/07/1975	U	112NRVL	SAND	1600	1410
131-062-240002	NDSWC 9458A	100	81	78	1.50	09/30/1975	17.91	10/07/1975	U	112ELDL	SAND	1600	--
131-062-250AB	ADAM, E.	--	123	103	4	1970	--	--	H	--	--	1050	--
131-062-26AAA1	NDSWC 9457	280	--	--	--	09/30/1975	--	--	U	--	--	--	1406
131-062-26AAA2	NDSWC 9457A	120	89	86	1.25	09/30/1975	12.87	10/07/1975	U	112ELDL	SAND	1600	--
131-062-300CC	RUDOLF, A.	--	1092	--	1.50	1945	F	--	H,S	2170KOT	SNDS	5000	1450

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131-062-3488A	GIBSON, SAM	64	40	35	35	08/17/1973	15.00	08/17/1973	S,H	112ELOL	GRVL	750	--
131-063-07CCC	WOLFF, L.	45	45	--	18	04/ /1973	16.00	04/16/1973	S			1200	--
131-063-11CCB	WAGNER, FRED	1515	1515	1475	1.50	02/27/1975	F	--	H,S	217DKOT	SNDS	2275	1470
131-063-16ADA	NDSWC 9139	20	--	--	--	10/01/1974		--	U	--	--	--	1450
131-063-17AAA	NDSWC 950R	60	--	--	--	11/13/1975		--	U	--	--	--	1500
131-063-08DDB	MONANGO, ND	48	48	--	24	1959	28.78	08/05/1977	P	211PIRR	SHLE	--	--
131-063-18AAA	PETERSON, S.	36	36	--	18	04/13/1973	18.00	04/13/1973	S	--	--	--	--
131-064-01DDO	SPEIDEL, R.	24	24	--	18	04/26/1973	14.00	04/26/1973	S	--	--	--	--
131-064-02CCC	MEYER, W.	13	13	--	18	05/01/1973	8.00	05/01/1973	S	--	--	1700	--
131-064-10CDO	SPEIDEL, G.	16	16	--	24	04/18/1973	F	04/18/1973	H,S	--	--	4000	--
131-064-15BAC	KELLOGG, W.	15	15	--	24	04/18/1973	11.00	04/18/1973	S	--	--	900	--
131-064-15DAA	NDSWC 9156	40	--	--	--	10/09/1974		--	U	--	--	--	1540
131-064-22AAA	FIECHTNER, A.	--	1335	1209	2	10/23/1973	28.00	10/23/1973	H,S	217DKOT	SNDS	4500	1535
131-064-32AAB	HAUSSLER, G.	--	1191	--	--	1914		--	H,S	217DKOT	SNDS	6000	--
131-065-06CCB	GIESLER, H.	36	36	--	24	11/08/1972	15.00	11/08/1972	S	--	--	990	--
131-065-1488B	NDSWC 9164	80	--	--	--	10/11/1974		--	U	--	--	--	1697
131-065-29CBA	TITTLE, W.	--	20	--	36	1972		--	H,S	--	--	1475	--
131-066-18DAC	MONTANEY, G.	--	175	--	2	1943		--	H	--	--	1225	--
131-066-2788B	NDSWC 9163	360	--	--	--	10/10/1974		--	U	--	--	--	1992
132-059-03CCC	NDSWC 9145	160	121	118	1.25	10/03/1974	12.50+	11/20/1975	U	112SPRD	SAND	1650	1327
132-059-1288B	NDSWC 9146	160	--	--	--	10/04/1974		--	U	--	--	--	1330
132-059-14ACA	DETHLEFSEN, JOE	1265	1265	1230	2	08/09/1974	184.00+	08/09/1974	H,S	217DKOT	SNDS	6000	1360
132-059-21DCD	NFD	70	70	64	4	11/03/1972	8.00	11/ /1972	S	--	--	900	--
132-059-26CCC	ANDERSON, N.	158	158	152	4	05/ /1972	F	--	H,S	--	--	1680	--
132-060-03DDB	BAUMGARTNER, M.	--	215	--	4	1966		--	H,S	--	--	1400	--
132-060-0588B	NDSWC 9150	180	--	--	--	10/08/1974		--	U	--	--	--	1345
132-060-12AAA	NDSWC 9144	240	50	47	1.25	10/03/1974	20.59	01/23/1975	U	112BGFV	SAND	940	1385
132-060-16AAA	NDSWC 9143	220	--	--	--	10/03/1974		--	U	--	--	--	1380
132-060-17DAA	BRADEMEYER, W.	--	1226	1182	1.25	08/14/1969	F	--	H	217DKOT	SNDS	3000	1385
132-060-19BCC	USBR L-1	24	21	--	3	07/11/1967	9.00	10/27/1970	U	112LMUR	SAND	--	1298
132-060-24AAA	NDSWC 9463	200	--	--	--	10/03/1975		--	U	--	--	--	1375
132-060-288DB	BRADEMEYER, W.	120	--	--	--	10/01/1974		--	U	--	--	--	--
132-060-3108B	WAGNER, D.	93	87	82	4	04/16/1973	55.00	04/16/1973	H	--	--	--	--
132-061-08DAA	ARNDT, A.	85	82	78	4	1972	50.00	09/29/1972	H,S	112ELDL	SAND	1175	--
132-061-09DCC	KENNEY, J.	69	69	63	4	11/16/1972	45.00	11/16/1972	H,S	112ELDL	SAND	1100	--
132-061-11ADA	USBR L-7	40	23	--	3	07/17/1970	17.00	10/27/1970	U	112LMUR	SAND	--	1313
132-061-11DDD	USBR L-6	20	5	--	3	07/17/1970	3.00	10/27/1970	U	112LMUR	SAND	--	1300
132-061-1488B	USBR L-5	24	24	--	3	07/17/1967	21.00	10/27/1970	U	112LMUR	SAND	--	1318
132-061-14DDC	USBR L-4	25	24	--	3	07/13/1970	18.00	10/27/1970	U	112LMUR	SAND	--	1326
132-061-15DAA	NDSWC 9152	180	101	98	1.25	10/02/1974	14.21	01/23/1975	U	112LMUR	SAND	1190	1308
132-061-20DDD	NDSWC 9465	295	--	--	--	10/03/1975		--	U	--	--	--	1417

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132-061-23ADA	USBR L-3	22	19	--	--	07/12/1967	13.00	10/27/1970	U	112LMUR	SAND	--	1310
132-061-24ADA	USBR L-2	24	19	--	3	07/11/1967	7.00	10/27/1970	U	112LMUR	SAND	--	1301
132-061-260CC	WAGNER, N.	95	92	--	4	06/ /1972	18.00	07/03/1972	H,S	112LMUR	SAND	2100	--
132-061-298881	NDSWC 9464	300	--	--	--	10/03/1975	--	--	U	--	--	--	1416
132-061-298882	NDSWC 9464A	120	89	86	1.25	10/03/1975	25.17	11/07/1975	U	112ELDL	SAND	1560	1416
132-061-34CCC	NDSWC 9136	300	--	--	--	10/01/1974	--	--	U	--	--	--	1418
132-062-02C0C	KRAPU, J.	--	1080	1040	2	1952	--	--	H	217NKOT	SNDS	4800	--
132-062-10DAD	LARSON, R.	152	152	146	4	1972	48.00	06/16/1972	H,S	112NRVL	SAND	2600	--
132-062-10DDO	LARSON, R.	152	152	146	4	06/16/1972	48.00	06/16/1972	H	112ELDL	SAND, WHITE	--	--
132-062-19DDO	NDSWC 9507	200	--	--	--	11/12/1975	--	--	U	--	--	--	1470
132-062-23DDO	NDSWC 9141	260	144	138	1.25	10/02/1974	36.64	01/22/1975	U	112ELDL	SAND	1900	1435
132-062-24DDO	NDSWC 9466	300	111	108	1.25	10/06/1975	--	--	U	112ELDL	SAND	--	1420
132-062-30BCB	DOBLER, C.	--	130	--	24	1958	40.00	--	H	112BGFV	SAND	3500	--
132-063-048AA	NDSWC 9154	100	--	--	--	10/09/1974	--	--	U	--	--	--	1480
132-063-12AAA	TESKE, R.	--	1195	1090	2	09/07/1973	40.00	09/07/1973	H,S	217NKOT	SNDS	5120	1480
132-063-22CCC	NDSWC 9140	80	51	48	1.25	10/02/1974	14.00+	01/22/1975	U	112BGFV	SAND	1825	1454
132-063-29888	RADERMACHER, S.	--	1260	1177	2	03/11/1972	22.00	03/11/1972	H,S	217NKOT	SNDS	5000	1525
132-063-29DDO1	HILDENBRAND, R.	46	34	--	4	1973	13.00	09/28/1973	H,S	--	--	1150	--
132-063-29DDO2	HILDENBRAND, H.	213	--	--	--	09/28/1973	--	--	U	--	--	--	--
132-064-118AA	BOLLINGER, C.	68	68	48	4	05/23/1973	12.00	05/23/1973	H,S	--	--	2790	--
132-064-23CCC	NDSWC 9155	100	71	68	1.25	10/09/1974	8.96	01/22/1975	U	112BGFV	SAND	950	1537
132-064-25DCB	RICHTER, WILBERT	28	28	27	24	04/18/1974	12.00	04/18/1974	S	112BGFV	SAND, BLUE	--	--
132-064-30CCC	KLIMA, ALBERT	40	40	34	22	04/23/1974	--	--	H	211PIRR	SHLE	--	--
132-065-18C8B	TEMPLIEN, C.	--	45	--	18	--	--	--	H,S	--	--	2400	--
132-065-22ADD	NDSWC 9165	120	--	--	--	10/11/1974	--	--	U	--	--	--	1705
132-065-31CCC	KLETTKE BROS	19	19	--	24	11/11/1972	3.00	11/11/1972	S	--	--	--	--
132-065-34CCC	STIENWAND, JEFF	35	34	26	30	04/23/1974	--	--	S	--	--	--	--
132-065-36ARB	NDSWC 9509	60	58	38	1.25	11/13/1975	6.22	03/11/1976	U	211PIRR	SHLE	3500	1640
132-066-03C8B	FREIGEN, H.	22	22	--	24	08/25/1972	16.00	08/25/1972	S	--	--	--	--
132-066-10CCD	NDSWC 9166	440	--	--	--	10/11/1974	--	--	U	--	--	--	1980
132-066-25CCB	KLETTKE BROS	--	290	--	3	1961	--	--	H,S	--	--	950	--
132-066-28BCC	SCHLENKER, E.	--	30	--	30	1930	--	--	S	--	--	6000	--
132-066-35DDA	GIESLER, OSCAR	76	76	--	--	11/14/1974	35.00	11/14/1974	S	112BGFV	SAND	--	2035
133-059-01CCC	NDSWC 9453	200	--	--	--	09/25/1975	--	--	U	--	--	--	1370
133-059-0288A	NDSWC 9210	220	--	--	--	11/13/1974	--	--	U	--	--	--	1384
133-059-028CO	VERONA, ND	1223	1223	1147	1.50	03/12/1975	--	03/ /1975	P	2170KOT	SNDS	3050	1385
133-059-03DAD1	ISLEY, A.	--	915	--	--	1912	--	--	H,S	2170KOT	SNDS	3000	--

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133-059-03DA02	ISLEY, A.	80	80	64	30	06/22/1974	24.22	06/25/1975	H,S	112BGFV	SAND	3000	--
133-059-06CRC	WETCEL, G.	--	200	--	--	1971	--	--	H,S	112SPRD	SAND	1210	--
133-059-08AA0	PLESSNER, K.	240	--	--	--	03/14/1972	--	--	--	--	--	--	--
133-059-09ACA	GESKE	--	1100	--	--	1921	--	--	U	2170KOT	SNDS	--	--
133-059-09AGA	UTECHT, M.	--	100	--	--	1970	40.00	11/13/1973	H,S	--	--	1390	--
133-059-10DD0	NDSWC 9452	220	--	--	--	09/25/1975	--	--	U	--	--	--	1374
133-059-11AAB1	BRADEMEYER, F.	--	1000	--	--	1914	4.00+	--	H,S	2170KOT	SNDS	6000	1375
133-059-11AAB2	BRADEMEYER, F.	--	1380	--	2	1972	--	--	H,S	2170KOT	SNDS	4000	1375
133-059-12AB0	MCGILL BROS	--	80	--	--	1921	--	--	U	--	--	4500	--
133-059-14CBB	BRADEMEYER, F.	--	1080	--	--	1923	--	--	H,S	2170KOT	SNDS	3500	1375
133-059-15CCC1	GROSS, A.	--	900	--	--	1921	--	--	H,S	2170KOT	SNDS	4000	--
133-059-15CCC2	NDSWC 9451	240	191	188	1.25	09/24/1975	32.73	10/06/1975	U	112SPRD	SAND	1300	1385
133-059-18BCC	BARTA, L.	--	180	--	--	1971	--	--	H,S	112SPRD	SAND	980	--
133-059-18BDB	MPLS.TRUST CO.	--	--	--	--	1921	--	--	--	--	--	--	--
133-059-22ADD	HANGIN, MILTON	1182	1182	1140	2	09/15/1975	F	--	H,S	2170KOT	SNDS	2450	1375
133-059-23BCC	SEIFERT, J.	--	1250	--	--	1921	--	--	--	2170KOT	SNDS	3000	1365
133-059-250AD	MCCANN, L.	--	1191	1128	2	09/06/1975	F	--	H,S	2170KOT	SNDS	2050	--
133-059-260AA	HANSON, G.	--	915	--	--	1923	--	--	S	2170KOT	SNDS	--	--
133-059-27ADD	RAATZ, A.	--	988	--	--	1925	--	--	--	2170KOT	SNDS	4500	1370
133-059-28AAA	RAATZ, W.	--	60	--	--	1963	--	--	H,S	--	--	--	--
133-059-280AD	J.LAND CO.	--	900	--	--	1921	--	--	H,S	2170KOT	SNDS	--	--
133-059-29AAA	NDSWC 9450	220	76	73	1.25	09/24/1975	--	--	U	--	--	--	1380
133-059-29CAC	RAATZ, C.	--	1000	--	--	1921	4.00+	--	H	2170KOT	SNDS	--	--
133-059-31AAA	DOMINE, H.	--	223	--	--	1950	60.00	--	H,S	112SPRD	SAND	1200	--
133-059-3100B	DOMINE, A.	--	1000	--	--	1923	4.00+	--	--	2170KOT	SNDS	--	--
133-059-3288B	NDSWC 9449	240	201	198	1.25	09/24/1975	25.72	10/07/1975	U	112SPRD	SAND	1300	1372
133-059-32CDD	NDSWC 9148	240	--	--	--	10/07/1974	--	--	U	--	--	--	1380
133-059-33BCC	SCHUMAN, F.	--	900	--	--	1921	4.00+	--	U	2170KOT	SNDS	--	--
133-059-330CC1	SCHUMAN, H.	--	1100	--	--	1910	F	--	S	2170KOT	SNDS	--	--
133-059-330CC2	SCHUMAN, H.	--	130	--	--	1971	60.00	--	H,S	112SPRD	SAND	1200	--
133-059-330CD	SCHUMAN, H.	--	900	--	--	1910	--	--	S	2170KOT	SNDS	4500	--
133-059-34AAA	LOVEGREN, G.	--	300	--	--	1950	--	--	H,S	112SPRD	SAND	1290	--
133-059-368AA	NDSWC 9147	180	--	--	--	10/04/1974	--	--	U	--	--	--	1340
133-060-01ADA	MCCARTNEY LAND	--	950	--	--	1921	3.00+	--	--	2170KOT	SNDS	--	--
133-060-01DAD	BENN, A.	--	985	--	--	1913	--	--	--	2170KOT	SNDS	--	--
133-060-010DD	NDSWC 9822	240	196	193	1.25	10/20/1976	56.91	12/03/1976	U	112SPRD	GRVL, SANDY	--	1403
133-060-028CC1	MANGIN, J.	--	35	--	--	1955	--	--	S	--	--	--	--
133-060-028CC2	MANGIN, J.	--	35	--	--	1940	--	--	H,S	--	--	2275	--
133-060-02CB0	HUETHER, BILL	230	--	--	--	07/27/1976	--	--	U	--	--	--	--
133-060-048DB	LOTZER	--	1000	--	--	1919	4.00+	--	--	2170KOT	SNDS	--	--

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133-060-04000	MEISCH, N., SR.	--	48	--	--	1957	--	--	H	--	--	2900	--
133-060-06888	NDSWC 9205	260	--	--	--	11/06/1974	--	--	U	--	--	--	1411
133-060-07ACC	USBR L-15	--	17	--	3	07/21/1967	15.00	10/27/1970	U	112LMUR	SAND	--	--
133-060-08CCD	RIDDLE, K.	--	38	--	--	--	--	--	S	112LMUR	SAND	510	--
133-060-08DDA	USBR L-10	40	39	--	3	07/19/1970	38.00	10/27/1970	U	112LMUR	SAND	--	1342
133-060-08DDD	NDSWC 921R	60	45	42	1.25	11/15/1974	22.28	01/23/1975	U	112LMUR	SAND	1000	1326
133-060-09888	FRAUENBERG, A.	82	82	39	12	09/ /1974	20.00	--	I	112LMUR	SAND	--	--
133-060-10ABA	ISENBERGER, A.	--	1000	--	--	1915	4.00+	--	S	217DKOT	SNDS	5000	--
133-060-1000C	SCHMIDT, J.	--	289	--	--	1917	30.00	--	H,S	112SPRD	SAND	1500	--
133-060-12808	MALM, C.	--	1007	--	--	1915	3.00+	--	--	217DKOT	SNDS	--	--
133-060-14CAC	SCHIBE, E.	--	935	--	--	1912	5.00+	--	--	217DKOT	SNDS	--	--
133-060-15CAC1	SCHMIDT, J.	117	109	85	12	03/19/1975	--	--	I	112LMUR	SAND	700	--
133-060-15CAC2	NDSWC 9446	60	41	38	1.25	09/22/1975	--	--	U	112LMUR	SAND	--	1320
133-060-15CBA	NDSWC 9437	120	109	106	1.25	09/02/1975	21.04	07/13/1976	U	112LMUR	SAND, GRVL FROM 78 FT	--	1322
133-060-15CB01	NDSWC 9438	110	103	97	1.25	09/02/1975	21.59	07/13/1976	U	112LMUR	SAND, GRVL FROM 60 FT	--	1322
133-060-15CB02	NDSWC 9438A	110	104	98	1.25	09/03/1975	21.77	07/13/1976	U	112LMUR	SAND, GRVL FROM 60 FT	--	1322
133-060-15CC0	NDSWC 9215	100	51	58	1.25	11/14/1974	10.04	09/08/1976	U	112LMUR	SAND	760	1314
133-060-15CD01	NDSWC 9439	114	105	102	1.25	09/03/1975	16.69	07/13/1976	U	112LMUR	SAND, GRVL FROM 60 FT	--	1317
133-060-15CD02	NDSWC 9439A	114	90	87	1.25	09/03/1975	13.58	07/13/1976	U	112LMUR	SAND, GRVL FROM 60 FT	--	1314
133-060-15DD0	NDSWC 9214	220	--	--	--	11/14/1974	--	--	U	--	--	--	1375
133-060-16AA0	KLINE, D	80	80	--	--	08/06/1974	--	--	I	112LMUR	SAND	--	--
133-060-16AC0	KLINE, D.	70	70	44	12	09/12/1974	12.00	09/12/1974	I	112LMUR	SAND	400	--
133-060-16BA0	HOCKINGKESSEL	82	--	--	--	09/10/1974	--	--	--	--	--	--	--
133-060-16CAA	HOCKINGKESSEL	70	60	34	12	09/10/1974	17.00	09/10/1974	I	112LMUR	SAND	540	--
133-060-16CCC	NDSWC 9216	140	--	--	--	11/14/1974	--	--	U	--	--	--	1323
133-060-16DAA	NDSWC 9447	110	63	58	6	09/23/1975	16.34	11/03/1975	U	112LMUR	SAND	420	1320
133-060-16DAA	WALTON, ED	78	78	47	16	09/04/1974	12.00	09/04/1974	I	112LMUR	SAND	445	--
133-060-17AAA	ALBERTSON, L.	60	--	--	--	09/ /1974	--	--	--	--	--	--	--
133-060-17ADA	NDSWC 9217	100	61	58	1.25	11/14/1974	15.23	01/23/1975	U	112LMUR	GRVL	845	1320
133-060-17ADD	ALBERTSON, L.	40	--	--	--	09/19/1974	--	--	--	112LMUR	SAND	--	--
133-060-17BAC	ALBERTSON, L.	80	--	--	--	09/ /1974	--	--	--	--	--	--	--
133-060-17BCC	ALBERTSON, L.	55	--	--	--	09/ /1974	--	--	--	--	--	--	--
133-060-17DD0	USBR L-11	40	29	--	3	08/14/1967	24.40	08/14/1967	U	112LMUR	SAND	--	1325
133-060-198AA	PETERSON, P.	--	846	--	--	1915	4.00+	--	S	217DKOT	SNDS	4500	1305
133-060-22888	USBR L-12	35	16	--	3	07/20/1967	11.00	10/27/1970	U	112LMUR	SAND	--	1314
133-060-22888	USBR L-14	30	11	--	3	07/21/1967	5.00	10/27/1970	U	112LMUR	SAND	--	1304
133-060-228D01	HOCKINGKESSEL	80	--	--	--	08/23/1974	--	--	--	--	--	--	--
133-060-228D02	HOCKINGKESSEL	105	105	78	12	09/05/1974	9.00	09/05/1974	I	112LMUR	SAND	730	--
133-060-22C88	HOCKINGKESSEL	93	93	67	12	09/11/1974	12.00	09/11/1974	I	112LMUR	SAND	680	--
133-060-22C80	HOCKINGKESSEL	80	--	--	--	08/23/1974	--	--	--	--	--	--	--
133-060-2388C	DAUGHERTY, D.	209	209	--	4	07/ /1974	58.00	06/23/1975	H	112SPRD	SAND	--	--

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133-060-24CCC1	HAJEK, J.	--	1040	--	--	1906	3.00+	--	S	217OKOT	SNDS	5250	1395
133-060-24CCC2	HAJEK, J.	--	213	--	--	1963	--	--	H+S	--	--	1390	--
133-060-26CA	FARGO LODN ANCY	--	980	--	--	1918	4.00+	--	U	217OKOT	SNDS	--	--
133-060-27ABR	SMITH, W.	--	80	74	4	08/05/1972	58.00	08/05/1972	H	112LMUR	SAND	--	--
133-060-28AAA1	NDSWC 9219	100	81	78	1.25	11/15/1974	12.92	09/11/1975	U	112LMUR	SAND	900	1313
133-060-28AAA2	USBR L-13	25	15	--	3	07/20/1967	14.00	10/27/1970	U	112LMUR	SAND	--	1311
133-060-28A001	PETERSON, L.	--	18	--	--	1970	--	--	H+S	112LMUR	SAND	750	--
133-060-28A002	PETERSON, L.	100	73	47	12	09/ /1974	8.00	09/17/1974	I	112LMUR	SAND	850	--
133-060-29BAA	RIDDLE, L.	--	1000	--	--	1904	--	--	H+S	217OKOT	SNDS	5100	--
133-060-29B08	JUBERG, J.	--	1000	--	--	1904	3.00+	--	H+S	217OKOT	SNDS	5000	--
133-060-29C0A	NESVIG, LES	100	--	--	--	08/15/1975	--	--	U	--	--	--	--
133-060-29C00	NESVIG, LES	122	--	--	--	08/11/1975	--	--	U	--	--	--	--
133-060-30CAC	STATE N. DAK.	--	110	106	4	08/20/1973	5.00	08/20/1973	R	--	--	--	--
133-060-30D88	STATE N. DAK.	--	123	119	4	/ 1973	59.00	08/ /1973	R	--	--	--	--
133-060-31D00	NDSWC 9152	160	--	--	--	10/08/1974	--	--	U	--	--	--	1318
133-060-32BAA1	NESVIG, LES	140	--	--	--	08/16/1975	--	--	U	--	--	--	--
133-060-32BAA2	NESVIG, LES	--	100	75	12	10/ /1975	45.00	--	I	--	--	730	--
133-060-32BAC	NESVIG, LES	105	--	--	--	09/04/1976	--	--	U	--	--	--	--
133-060-32B0A	NESVIG, LES	75	--	--	--	09/04/1976	--	--	U	--	--	--	--
133-060-33CCC	NDSWC 9151	140	--	--	--	10/08/1974	--	--	U	--	--	--	1297
133-060-34ACB	HAISLEY, G.	--	1265	--	--	1953	F	--	H+S	217OKOT	SNDS	2400	1400
133-060-35C00	KLUEVER, J.	--	980	--	--	1918	3.00+	--	--	217OKOT	SNDS	--	--
133-060-36CCC	NDSWC 9149	220	--	--	--	10/07/1974	--	--	U	--	--	--	1390
133-060-36D00	NDSWC 9448	260	215	212	1.25	09/23/1975	36.22	11/05/1975	U	112SPRD	SAND	850	1383
133-061-01D90	LAMOURE, ND	--	20	--	180	--	--	--	P	--	--	--	--
133-061-02AAA	USBR L-20	25	17	--	3	07/25/1967	9.00	10/26/1970	U	112LMUR	SAND	--	1305
133-061-03BBB	NDSWC 9204	50	41	38	1.25	11/06/1974	16.81	01/23/1975	U	112LMUR	SAND	825	1320
133-061-03BBC	GRIFFETH, G.	--	922	--	--	1905	--	--	S	217OKOT	SNDS	4500	1330
133-061-03CCC	USBR L-17	25	19	--	3	08/14/1967	17.00	10/27/1970	U	112LMUR	SAND	--	1320
133-061-04AAA	USBR L-18	25	21	--	3	07/24/1967	18.00	10/26/1970	U	112LMUR	SAND	--	1324
133-061-04AA0	GRIFFETH, G.	--	--	--	5	--	--	--	H	--	--	1280	1337
133-061-04CCD	HARMSSEN, A.	--	1100	--	--	1949	--	--	H+S	217OKOT	SNDS	4500	--
133-061-04D00	USBR L-17A	--	--	--	--	--	10.00	10/26/1970	--	--	--	--	--
133-061-06AAA1	YOUNG, J.	--	1000	--	--	1906	F	--	S	217OKOT	SNDS	5000	--
133-061-06AAA2	NDSWC 9203	320	--	--	--	11/05/1974	--	--	U	--	--	--	1435
133-061-06AAA3	NDSWC 9203A	100	93	90	1.25	11/05/1974	46.30	01/23/1975	U	112FLDL	SAND	1800	1435
133-061-06AAA4	YOUNG, J.	--	--	--	4	1960	--	--	H+S	--	--	1300	--
133-061-08AA0	MCMANNUS, J.	--	1020	--	--	1910	--	--	S	217OKOT	SNDS	4500	--
133-061-08C00	HANKEL, R.	94	92	88	4	10/03/1974	52.00	10/ /1974	H	112FLDL	SAND	1770	--
133-061-09A00	PUGH BROS	--	1100	--	--	--	--	--	S	217OKOT	SNDS	--	--

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133-061-12ACA	ROBERT, A.	--	1100	--	--	--	--	--	--	2170KOT	SNDS	--	--
133-061-14BAA	ALBERTSON, L.	56	56	51	4	11/ /1974	32.12	06/24/1975	H	--	--	650	--
133-061-17AAD	FEIKEN, H.	74	74	--	--	06/07/1974	30.00	--	H	112ELDL	SAND	1630	--
133-061-18ACB	FAIRVIEW COLONY	--	1430	1375	2	12/16/1969	--	--	S	2170KOT	SNDS	2270	1430
133-061-20CCC1	NDSWC 9468	260	--	--	--	10/07/1975	--	--	U	--	--	--	1429
133-061-20CCC2	NDSWC 9468A	120	104	98	1.25	10/07/1975	43.02	11/07/1975	U	112ELDL	SAND	1900	1429
133-061-20DAB1	ABERLE, J.	73	66	--	4	05/18/1973	30.00	05/18/1973	--	112ELDL	SAND	--	--
133-061-20DAB2	ABERLE, J.	--	78	74	4	03/20/1973	35.00	03/20/1973	H	112ELDL	SAND	1200	--
133-061-22AB8	SAUFLEY, W.	--	35	--	--	1915	30.00	--	H+S	--	--	2740	1417
133-061-22CCC	EXNER, MRS. K.	--	40	36	4	05/14/1973	15.00	05/14/1973	H	--	--	--	--
133-061-26ACC	HUNT, A.	--	1020	--	--	--	--	--	U	2170KOT	SNDS	--	--
133-061-27DAA1	JOHNSON, C.	--	40	--	--	1963	--	--	H	--	--	1330	1417
133-061-27DAA2	JOHNSON, C.	--	67	--	--	1916	--	--	S	--	--	1900	1417
133-061-28BAB1	NDSWC 9467	280	--	--	--	10/07/1975	--	--	U	--	--	--	1418
133-061-28BAB2	NDSWC 9467A	100	85	83	1.25	10/07/1975	35.82	11/07/1975	U	112ELDL	SAND	1700	1418
133-061-30ACA	KLINE, F.	--	1050	--	--	1916	--	--	--	2170KOT	SNDS	--	--
133-061-30BBB1	NDSWC 9469	260	221	218	1.25	10/07/1975	48.28	11/07/1975	U	112NRVL	SAND	2370	1434
133-061-30BBB2	NDSWC 9469A	120	114	108	1.25	10/07/1975	47.16	11/07/1975	U	112ELDL	SAND	2000	1434
133-061-30BBB	KLINE, F.	--	1000	--	--	1917	--	--	--	2170KOT	SNDS	--	--
133-061-31CAC	ADAMS, P.	--	1050	--	--	1913	--	--	--	2170KOT	SNDS	--	--
133-061-32AAA1	DEAN, J.	--	80	--	--	1969	--	--	H+S	112ELDL	SAND	--	1432
133-061-32AAA2	DEAN, J.	--	1036	--	--	1918	--	--	H+S	2170KOT	SNDS	4000	1432
133-061-320AA	EDWARDS, B.	--	--	--	--	1906	--	--	S	--	--	4000	--
133-061-35BDB	ALBAUGH, R.	--	1000	--	--	--	--	--	--	2170KOT	SNDS	--	--
133-061-36DDD	NDSWC 9153	280	--	--	--	10/08/1974	--	--	U	--	--	--	1408
133-062-02AAA1	NDSWC 9202	260	--	--	--	11/05/1974	--	--	U	--	--	--	1407
133-062-02AAA2	NDSWC 9202A	80	74	71	1.25	11/05/1974	32.51	05/14/1975	U	112ELDL	SAND	--	1407
133-062-03B	YOUNG, G.	1150	1150	--	1	1903	3.00+	09/ /1921	--	2170KOT	SNDS	--	--
133-062-06AAA	NDSWC 8734	260	--	--	--	07/11/1973	--	--	U	--	--	--	1490
133-062-08AAA	NYPEN, L.	--	128	--	6	1951	--	--	H+S	--	--	2490	--
133-062-11ABB	FISCHER, R.	--	120	--	4	1950	100.00	--	H	--	--	--	--
133-062-15BCC	SENGER, W.	--	1265	--	2	1965	20.00	--	H+S	2170KOT	SNDS	--	--
133-062-21BCD	WORREL, K.	--	135	--	4	--	55.00	--	H+S	--	--	2600	--
133-062-21DDD	NDSWC 9472	195	--	--	--	10/08/1975	--	--	U	--	--	--	1465
133-062-22BCC	BAUDER, A.	--	1125	--	--	1907	--	--	S	2170KOT	SNDS	5600	--
133-062-22DBD	ULLAND MORTG.CO	--	1125	--	1.25	1907	4.00+	--	S	2170KOT	SNDS	--	--
133-062-22DDO1	NDSWC 9471	260	--	--	--	10/08/1975	--	--	U	--	--	--	1452
133-062-22DDO2	NDSWC 9471A	140	124	123	1.25	10/08/1975	69.55	03/08/1976	U	112ELDL	SAND	2400	1452
133-062-25DBD	JOHNSON, C.	--	1030	--	1	1908	--	--	--	2170KOT	SNDS	--	--
133-062-24CCB1	NDSWC 9470	240	221	218	1.25	10/ /1975	56.20	11/07/1975	U	112NRVL	SAND	2400	1442
133-062-24CCB2	NDSWC 9470A	140	114	108	1.25	1975	54.83	11/07/1975	U	112ELDL	SAND	2000	1442

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133-062-27AAA	NELSON, W.	--	150	--	--	1930	--	--	H+S	--	--	2325	--
133-062-28CDC	LACINA, A.	--	1160	--	3	1915	12.00	--	H+S	217DKOT	SNDS	5600	--
133-062-29AAD	JUST, J.	155	159	--	--	09/02/1974	40.00	--	S	--	--	3200	--
133-062-31AAA	RATH, O.	--	28	--	24	1959	--	--	H+S	--	--	1825	--
133-062-33C	LACINA, T.	1165	--	--	1	1915	4.00+	--	--	217DKOT	SNDS	--	--
133-062-33CBB	LACINA, M.	--	1240	--	2	1960	--	--	H+S	217DKOT	SNDS	5600	1485
133-063-02AAA	NDSWC 8705	180	--	--	--	06/20/1973	--	--	U	--	--	1495	--
133-063-02ADA	WILHELM, A.	--	1306	--	3	1959	24.00	--	H+S	217DKOT	SNDS	5300	--
133-063-05AAA	NDSWC 8702	80	--	--	--	06/20/1973	--	--	U	--	--	1525	--
133-063-05ADA1	RACOTE	--	1567	--	4	1969	F	--	S	217DKOT	SNDS	2500	--
133-063-05ADA2	RACOTE	--	97	--	2	1968	--	--	H	--	--	1700	--
133-063-05ADD	SUNNYMAID DAIRY	--	1567	--	2	03/11/1969	F	03/11/1969	H+S	217DKOT	SNDS	2630	1540
133-063-068AA	NDSWC 8700	20	--	--	--	06/20/1973	--	--	U	--	--	1510	--
133-063-088BA	NDSWC 8732	20	--	--	--	07/11/1973	--	--	U	--	--	1520	--
133-063-0889D	MUSLAND, R.	135	135	--	4	08/14/1974	12.00	08/14/1974	S	211PIRR	SHLE	4800	--
133-063-08DAA1	NELSON, S.	29	29	24	22	06/06/1973	--	--	H+S	--	--	7000	--
133-063-08DAA2	NELSON, E.	--	60	--	4	1973	30.00	--	H+S	211PIRR	SHLE	5200	--
133-063-08DAA3	NELSON, S.	50	50	36	30	06/06/1973	--	--	H+S	211PIRR	SHLE	--	--
133-063-118CB	ELLINGSON, R.	--	26	--	24	1973	12.00	--	S	--	--	1000	--
133-063-1386C	PERSSON, F.	--	33	--	4	09/17/1973	18.00	09/17/1973	S	--	--	--	--
133-063-15CCZ	SENGER, G.	--	1265	--	3	1967	25.00	--	H+S	217DKOT	SNDS	4850	--
133-063-19DDC	PODENSKI, F.	--	130	--	4	1948	18.00	--	H	--	--	2800	--
133-063-278AA1	JACOBSON, L.	--	33	--	24	1930	13.00	--	H	--	--	4800	--
133-063-278AA2	JACOBSON, L.	--	80	--	2	1958	12.00	--	S	--	--	1900	--
133-063-27CC8	NDSWC 8733	20	--	--	--	07/11/1973	--	--	U	--	--	--	1495
133-063-28CC81	NELSON, L.	--	1200	--	3	1920	25.00	--	H+S	217DKOT	SNDS	4900	--
133-063-28CC82	NELSON, L.	--	30	--	72	--	30.00	--	H	--	--	1750	--
133-064-01AAA	NDSWC 8699	60	--	--	--	06/20/1973	--	--	U	--	--	--	1525
133-064-02AAA	BARTLE, B.	--	54	--	6	1900	20.00	--	S	--	--	3600	--
133-064-02DCC	MUSLAND, C.	75	24	--	4	07/24/1974	6.00	07/24/1974	H	--	--	3300	--
133-064-03AAA	NDSWC 8697	40	--	--	--	06/20/1973	--	--	U	211PIRR	SHLE	--	1545
133-064-03ADC	EDGELEY 7	101	101	--	6	07/ /1967	14.00	--	H	211PIRR	SHLE	--	1540
133-064-03BC	EDGELEY 1	92	92	84	6	--	21.93	05/11/1964	U	211PIRR	SHLE	--	--
133-064-03BDC	EDGELEY 6	82	82	75	6	07/ /1963	--	--	P	--	SHLE	--	1555
133-064-03CBD	EDGELEY 3	122	122	64	6	1952	--	--	P	211PIRR	SHLE	--	--
133-064-03BDD	EDGELEY 4	--	70	--	6	01/01/1952	--	--	P	211PIRR	SHLE	--	--
133-064-03CDC	EDGELEY 5	122	70	--	6	07/ /1963	--	--	P	211PIRR	SHLE	--	1560
133-064-03DDO	EDGELEY 2	--	90	--	6	1915	--	--	P	211PIRR	SHLE	2250	--
133-064-03DDO	ADVENTIST CONF.	78	25	--	4	05/25/1973	--	--	H	211PIRR	SHLE	--	--
133-064-05AAA	NDSWC 8695	60	--	--	--	06/09/1973	--	--	U	--	--	--	1605
133-064-08BCC	MATERN, R.	50	50	--	4	09/10/1974	9.00	09/10/1974	D	211PIRR	SHLE	8000	--

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133-064-08CBC	SCHULZ, L.	--	200	--	4	1969	40.00	--	S	211PIRR	SHLE	--	--
133-064-08CCB	SCHULZ, L.	--	60	--	4	1968	20.00	--	H	211PIRR	SHLE	--	--
133-064-10CBB	REY, C.	--	80	--	4	1920	--	--	H	--	--	2900	--
133-064-12DCC	MATHERN, B.	--	40	--	--	1950	--	--	H	--	--	1560	--
133-064-14CCC	MATHERN, J.	--	80	--	--	--	--	--	H,S	--	--	1720	--
133-064-15ADD	NDSWC 8727	20	--	--	--	07/10/1973	--	--	U	--	--	--	1560
133-064-15BBB	NDSWC 8731	40	--	--	--	07/11/1973	--	--	U	--	--	--	1560
133-064-18BB	VAUGHN SMITH 1	2049	--	--	--	12/11/1965	--	--	U	--	--	--	1646
133-064-19DCC	NDSWC 8729	60	--	--	--	07/11/1973	--	--	U	--	--	--	1620
133-064-20CDA	JAMES, R.	--	100	--	6	--	10.00	--	H,S	211PIRR	SHLE	4800	--
133-064-22DDA	HULM, J.	135	21	--	--	09/11/1974	15.00	--	H,S	211PIRR	SHLE	--	--
133-064-26CCC	NDSWC 8728	20	--	--	--	07/10/1973	--	--	U	--	--	--	1560
133-064-28AAA	LISKA, D.	90	90	--	4	05/ /1961	18.00	1975	H	211PIRR	SHLE	5300	--
133-064-32CAA	HEIM, C.	40	40	--	24	06/01/1974	5.00	07/29/1975	S,H	211PIRR	SHLE	5000	--
133-064-32CAC	HEIM, C.	--	28	--	24	05/17/1974	2.00	--	U	--	--	--	--
133-064-32DBB1	HEIM, C.	--	100	--	--	1900	6.00	--	S	211PIRR	SHLE	6500	--
133-064-32DBB2	HEIM, C.	--	240	--	--	1968	6.00	--	S	211PIRR	SHLE	6500	--
133-064-35CBC1	MATHER, J.	--	100	--	5	1953	35.00	--	H	211PIRR	SHLE	3770	--
133-064-35CBC2	MATHER, J.	--	150	--	5	1958	30.00	--	S	211PIRR	SHLE	7000	--
133-065-07BDB	LINDGREN, V.	--	300	--	4	1952	--	--	H	--	--	1100	--
133-065-10BBD	LACKMAN, M.	--	40	--	--	--	--	--	S	--	--	--	--
133-065-11DAC	LAGODINSKI, V.	--	2071	1966	2	08/24/1973	--	08/24/1973	H,S	217DKOT	SNDS	2510	1700
133-065-14DDA	NDSWC 8730	60	--	--	--	07/11/1973	--	--	U	--	--	--	1680
133-065-19DDC	GACKLE, L.	55	55	--	18	05/22/1974	35.00	--	S	112BGFV	SAND	--	--
133-065-20AAC	MOGOK, H.	--	35	--	1	1947	12.00	--	H,S	--	--	2550	--
133-065-23DDD	BERNHARDT, L.	--	120	--	2	1944	15.00	--	H,S	--	--	1490	--
133-065-32CAA	HEIM, C.	71	40	32	30	10/16/1974	4.00	--	H,S	--	--	5000	--
133-065-32DCC	BROST, M.	--	53	--	24	1956	--	--	S	--	--	2400	--
133-065-33ADB	GACKLE, W.	63	53	--	24	06/06/1973	35.00	06/06/1973	S	--	--	--	--
133-066-02BBB	NDSWC 9169	420	--	--	--	10/16/1974	--	--	U	--	--	--	1940
133-066-03ADA	JOHNSON, L.	449	419	--	4	1972	96.00	1972	S	211PIRR	SHLE	--	--
133-066-03DAC	HOLMGREN, E.	460	410	--	4	1974	80.00	1975	S	211PIRR	SHLE	3400	--
133-066-06BBD	DBERLANDER, A.	63	63	--	18	11/22/1974	40.00	11/22/1974	H,S	112BGFV	SAND	2200	--
133-066-16DCB	FLEGEL, L.	404	402	397	4	11/14/1974	96.00	11/14/1974	S	112BGFV	SAND	1200	--
133-066-23DDD	NDSWC 9167	440	424	422	1.25	10/15/1974	53.82	01/22/1975	U	112BGFV	SAND	2925	1940
133-066-26CBA	KULM 1	--	290	--	8	1940	--	--	P	--	--	--	--
133-066-34ADB	KRAMLICH, R.	38	34	--	18	11/08/1974	15.00	11/08/1974	S	--	--	--	--
134-059-01CCB	RAGAN, WILLIAM	1482	1482	1421	2	01/26/1968	--	--	S	217DKOT	SNDS	4000	--
134-059-02AAA	HEISER, RAY	1205	1204	1142	2	12/05/1975	--	--	S,H	217DKOT	SNDS	3100	1380
134-059-06DDA	ROTH, C.	--	--	--	--	--	--	--	H,S	--	--	1900	--

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134-059-08888	NDSWC 9212	120	--	--	--	11/13/1974			U	--		--	1407
134-059-10CCD	STRAHM, D.	--	27	--	--	1958	29.00		H,S	--		2200	--
134-059-18888	LIND, E.	--	1070	--	--	1915			H,S	2170KOT	SNDS	4400	--
134-059-21CDD	KALE, W.	--	33	--	--	1950			H,S	--		1770	--
134-059-240AA	RUFVOLD, A.	--	--	--	--	1910	F		H,S	2170KOT	SNDS	5000	--
134-059-26DCC	LANEY, J.	--	1000	--	--	1930			H,S	2170KOT	SNDS	4425	--
134-059-28DDO	DIETRICH, R.	52	52	34	30	09/03/1974	18.00	06/25/1975	H,S	112RQFV	SAND	1900	--
134-059-31CCC	NDSWC 9208	240	184	178	1.25	11/12/1974	32.56	01/23/1975	U	112SPRD	SAND	1450	1387
134-059-32DDO	NDSWC 9209	240	--	--	--	11/12/1974			U	--		1405	--
134-059-33CDD	PETERSON, C.	--	54	--	--	1958			H,S	--		1080	--
134-059-35DDO	PETERSON, C.	187	181	173	4	05/24/1972	20.00	05/24/1972	H	--		2800	--
134-059-36DDO	NDSWC 9211	220	--	--	--	11/13/1974			U	--		--	1384
134-060-01CCA	SANDNESS, T.	--	1275	1200	2	07/06/1960			H,S	2170KOT	SNDS	2800	1415
134-060-02CCC	NDSWC 9213	220	--	--	--	11/13/1974			U	--		--	1420
134-060-05DDO	JOHNSON, A.	--	30	--	--	--			H,S	--		1900	--
134-060-060AA	BASSEN, K.	--	24	--	--	--			H,S	--		2325	--
134-060-07888	NDSWC 9490	200	--	--	--	10/16/1975			U	--		--	1412
134-060-10DDC	LONG, K.	--	38	--	--	1952			H,S	--		1100	--
134-060-16888	NDSWC 9817	180	--	--	--	10/14/1976			U	--		--	1418
134-060-16CCC	NDSWC 9818	240	215	212	1.25	10/14/1976	29.25	10/22/1976	U	112SPRD	SAND, GRVLY	--	1420
134-060-19BAC	WEIGHT, B.	--	40	--	--	1930			H,S	--		1280	--
134-060-20DDA1	RLOCK, N.	--	1000	--	--	--			S	2170KOT	SNDS	4500	1410
134-060-20DDA2	BLOCK, N.	151	151	151	4	09/03/1972	80.00	09/03/1972	H,S	--		1240	--
134-060-22CDD	FREADHOFF, R.	--	1066	--	--	1906			U	2170KOT	SNDS	--	--
134-060-220CC	KLEAMER, K.	50	--	--	--	03/03/1972			U	--		--	--
134-060-23BCB	SANDNESS, C.	--	40	--	--	1925			H,S	--		1020	--
134-060-26ABD	OSTRY, R.	--	225	--	4	1965	110.00		H,S	--		1280	--
134-060-26888	NDSWC 9815	260	221	218	1.25	10/13/1976	65.47	12/02/1976	U	112SPRD	SAND	--	1420
134-060-260CC	NDSWC 9816	240	201	198	1.25	10/13/1976	52.37	10/27/1976	U	112SPRD	SAND, GRVLY	--	1405
134-060-28808	NEELY, J.	--	1100	--	--	1905			--	2170KOT	SNDS	--	--
134-060-29CDD	MEYER, D.	45	45	39	30	10/16/1974	8.00	06/26/1975	S	112RQFV	SAND	2000	--
134-060-310CC	STEFFES, C.	--	1040	--	--	1949			H,S	2170KOT	SNDS	4200	--
134-060-320DD	NDSWC 9206	300	224	218	1.25	11/07/1974	57.29	06/18/1975	U	112SPRD	SAND	1075	1403
134-060-35CCC	NDSWC 9207	320	261	255	1.25	11/07/1974	48.52	05/14/1975	U	112SPRD	SAND	1375	1395
134-060-35DCB	HUETHER, BILL	240	210	200	4	09/22/1976	48.00	09/22/1976	U	112SPRD	SAND	--	--
134-060-36CAB	HUETHER, BILL	240	236	216	4	09/22/1976	51.00	09/22/1976	U	112SPRD	SAND	--	1425
134-060-36CBB1	NDSWC 9820	240	215	212	1.25	10/19/1976			U	112SPRD	SAND, GRVLY	--	1415
134-060-36CBB2	NDSWC 9821	240	219	216	1.25	10/19/1976			U	--		--	1417
134-060-36CBB3	HUETHER, BILL	235	--	--	--	07/27/1976			U	--		--	--
134-060-36C8C	NDSWC 9819	222	215	212	1.25	10/15/1976			U	112SPRD	SAND, GRVLY	--	--

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134-060-36CC8	HUETHER, BILL	240	225	200	12	10/07/1976	--	--	I	112SPRD	SAND, GRVL FROM 210 FT	1500	--
134-061-03BCD1	MUSKE, W.	--	40	--	24	1930	--	--	S	--	--	850	1447
134-061-03BCD2	MUSKE, W.	--	140	--	4	1910	--	--	S	--	--	750	1447
134-061-03DD0	NDSWC 9479	280	--	--	--	10/15/1975	--	--	U	--	--	--	1423
134-061-04888	USBR L-31	30	15	--	3	08/04/1967	12.00	10/26/1970	U	112LMUR	SAND	--	1319
134-061-05DCD	USBR L-27	22	17	--	3	07/27/1967	17.00	10/26/1970	U	112LMUR	SAND	--	1319
134-061-06DCA	SHOCKMAN, T.	--	1354	1312	2	10/23/1967	F	10/23/1967	H,S	217DKOT	SNDS	2600	1375
134-061-06DCC	SHOCKMAN, T.	--	100	--	4	1965	--	--	H	--	--	1750	1437
134-061-06DD0	USBR L-28	30	27	--	3	08/01/1967	15.00	10/26/1970	U	112LMUR	SAND	--	1324
134-061-08AAA	USBR L-26	28	17	--	3	07/27/1967	12.00	10/26/1970	U	112LMUR	SAND	--	1314
134-061-11DD01	BOCKWOLDT, E.	--	40	--	24	1952	--	--	H,S	--	--	1040	1432
134-061-11DD02	BOCKWOLDT, E.	48	48	34	30	09/04/1974	--	--	S	112RGEV	SAND	1600	--
134-061-16AAA	USBR L-24	30	10	--	3	07/26/1967	9.00	10/26/1970	U	112LMUR	SAND	--	1311
134-061-16CDD	LEHR, CALVIN	60	40	27	12	05/12/1975	10.00	05/12/1976	I	112LMUR	SAND, GRAVEL COARSE	560	--
134-061-16CDD1	KLEVER, K.	50	--	--	--	03/13/1972	--	--	U	--	--	--	--
134-061-16CDD2	KLEVER, K.	67	--	--	--	01/30/1973	10.00	01/30/1973	U	--	--	--	--
134-061-16DD01	NDSWC 9477	160	67	64	1.25	10/14/1975	--	--	U	112LMUR	SAND	--	1316
134-061-16DD02	NDSWC 9477A	60	53	50	1.25	11/03/1975	11.48	11/04/1975	U	112LMUR	SAND	550	1316
134-061-17D	WERNER, M.	90	77	47	8	08/10/1976	44.00	08/10/1976	I	--	--	--	--
134-061-17DCA1	WERNER, M.	75	75	55	8	03/17/1972	47.00	03/17/1972	I	112LMUR	SAND	--	--
134-061-17DCA2	WERNER, M.	70	70	60	6	03/29/1972	50.00	03/29/1972	H	112LMUR	SAND	--	--
134-061-18CCC	NDSWC 9582	300	--	--	--	06/07/1976	--	--	U	--	--	--	1440
134-061-20AAA	USBR L-25	24	21	--	3	07/ /1967	21.00	10/ /1970	U	112LMUR	SAND	--	1336
134-061-20AAC	WERNER, M.	200	--	--	--	03/15/1972	--	--	--	--	--	--	--
134-061-20AAD1	WERNER, M.	60	48	32	12	09/18/1974	29.00	06/ /1975	I	112ELDL	SAND	1400	--
134-061-20AAD2	WERNER, M.	40	--	--	--	04/28/1973	--	--	U	--	--	--	--
134-061-20ADA	WERNER, M.	60	--	--	--	04/28/1973	--	--	U	--	--	--	--
134-061-21888	NDSWC 9478	40	20	17	1.25	10/14/1975	--	--	U	112LMUR	SAND	--	1324
134-061-21DAA	NDSWC 9476	80	50	47	1.25	10/14/1975	12.10	11/04/1975	U	112LMUR	SAND	1450	1316
134-061-21D8D1	WERNER, M.	60	--	--	--	03/13/1972	--	--	--	--	--	--	--
134-061-21D8D2	WERNER, M.	55	55	30	10	07/11/1974	8.00	07/11/1974	I	112LMUR	SAND	1290	--
134-061-2288D	KLEVER, K.	52	51	26	12	09/23/1976	17.00	09/23/1976	I	--	--	--	--
134-061-228CA	KLEVER, K.	60	--	--	--	09/19/1974	--	--	--	--	--	--	--
134-061-228DD	KLEVER, K.	80	--	--	--	09/19/1974	--	--	--	--	--	--	--
134-061-22CAC	WENDELL, DENNIS	62	45	25	12	07/17/1975	14.50	--	I	112LMUR	GRVL, COLORED	1175	--
134-061-23DCC	GENODE	--	35	--	--	--	--	--	H	--	--	600	1303
134-061-26AAA	USBR L-23	30	17	--	3	07/26/1967	14.00	10/26/1970	U	112LMUR	SAND	--	1314
134-061-26CCC	NDSWC 9475	220	71	68	1.25	10/13/1975	43.28	11/04/1975	U	112LMUR	SAND	940	1350
134-061-29AAD	STROH, A.	--	1100	--	--	1911	--	--	H,S	217DKOT	SNDS	5500	1417
134-061-34AAA	USBR L-22	35	27	--	3	07/25/1967	27.00	10/26/1970	U	112LMUR	SAND	--	1351

LOCAL NUMBER	OWNER	DEPTH DRILLED (FEET)	DEPTH OF WELL (FEET)	DEPTH TO FIRST OPENING (FEET)	CASING DIAMETER (INCHES)	DATE COMPLETED	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED	USE OF WATER	PRINCIPAL AQUIFER	LITHOLOGY OF PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25°C)	ALTITUDE OF LAND SURFACE (FEET)
134-061-34ACA	NISSING&LARSON	78	78	50	12	08/22/1974	2.00	08/22/1974	I	112LMUR	SAND	910	--
134-061-34DDD	USBR L-19	20	17	--	3	07/24/1967	9.00	10/26/1970	U	112LMUR	SAND	--	1305
134-061-35CCC	NDSWC 9474	160	--	--	--	10/10/1975	--	--	U	--	--	--	1302
134-061-35DDD	USBR L-21	20	17	--	3	07/25/1967	10.00	10/26/1970	U	112LMUR	SAND	--	1307
134-062-02DDC	FREESE, R. & S.	--	1150	--	2	03/ /1910	F	--	S	217DKOT	SNDS	6100	--
134-062-03DDD	NDSWC 9490	280	216	213	1.25	11/04/1975	101.66	03/08/1976	U	112SPRD	SAND	1700	1462
134-062-07ABB	KAMLETZ, E.	--	1172	--	2	1916	20.00	--	S	217DKOT	SNDS	7900	--
134-062-07CDD	KAMLETZ, E.	--	1170	--	2	1922	--	--	S	217DKOT	SNDS	--	--
134-062-07DDD	NDSWC 9581	200	--	--	--	06/07/1976	--	--	U	--	--	--	1480
134-062-110CB	SCHOBBER, J.	--	1160	--	2	1922	F	--	S	217DKOT	SNDS	6000	--
134-062-110CC	SCHOBBER, J.	--	1125	--	1.25	1922	--	--	H,S	217DKOT	SNDS	--	1447
134-062-23BCC1	PETERSON, K.	--	95	--	4	1972	--	--	H,S	--	--	2040	1457
134-062-23BCC2	PETERSON, K.	--	1200	--	--	--	F	--	H,S	217DKOT	SNDS	5400	1457
134-062-240AA1	QUINLAN, R.	--	1160	--	2	1904	F	--	H	217DKOT	SNDS	--	--
134-062-240AA2	QUINLAN, R.	--	87	--	4	1970	--	--	H,S	--	--	1825	1443
134-062-26DCB	WALD, S.	--	1036	--	--	1923	F	--	H,S	217DKOT	SNDS	--	--
134-062-278CC	LONG, C.	--	1214	--	2	12/09/1909	F	--	H,S	217DKOT	SNDS	5800	--
134-062-29CAD	YOUNG, R.	--	1190	--	2	02/20/1909	H,S	--	H,S	217DKOT	SNDS	5200	--
134-062-29DD01	JUST, D.	170	170	100	10	10/10/1974	102.00	10/ /1974	H	--	--	2600	--
134-062-29DD02	JUST, D.	--	113	--	4	1954	--	--	H,S	--	--	2300	--
134-062-30DAA	SWIONTEK, D.	--	1160	--	3	11/15/1920	--	--	H,S	217DKOT	SNDS	6200	--
134-062-33BCD	BERLIN, ND	--	1165	--	2	1904	2.00+	--	U	217DKOT	SNDS	6200	--
134-062-33BDB	BERLIN, ND	132	132	122	6	06/17/1975	--	--	P	112NRVL	SAND, WITH LIGNITE	2200	--
134-062-33CBB	NDSWC 9473	185	158	155	1.25	10/10/1975	89.04	11/05/1975	U	112NRVL	SAND	2600	1471
134-062-33DBB	YOUNG, D.	--	1175	--	2	1910	--	--	H,S	217DKOT	SNDS	2700	--
134-062-34CAA	LONG, J.	--	1545	1524	2	08/15/1973	F	08/15/1973	H,S	217DKOT	SNDS	2700	1475
134-062-35ABB	ABERLE, D.	--	1155	--	2	10/ /1910	--	--	H,S	217DKOT	SNDS	5900	1440
134-062-35CCC	NDSWC 9201	280	--	--	--	11/05/1974	--	--	U	--	--	--	1460
134-063-04CCC	BARTLE, F.	--	1548	--	2	1965	F	--	H,S	217DKOT	SNDS	2650	--
134-063-05DDA	NDSWC 9575	160	--	--	--	06/02/1976	--	--	U	--	--	--	1450
134-063-078AA	SYVERSON, M.	--	18	--	24	1940	8.00	--	H	--	--	975	--
134-063-09CBB	JENSEN, C.	--	137	--	4	1968	20.00	--	H,S	--	--	1950	--
134-063-10DD0	CLOKE, A.	--	1258	1174	2	11/04/1972	21.00	11/04/1972	H,S	217DKOT	SNDS	7700	1500
134-063-14BBB	CLOKE, A.	--	1500	--	2	1967	--	--	H	217DKOT	SNDS	2650	--
134-063-14CCC	NDSWC 9200	100	--	--	--	11/04/1974	--	--	U	--	--	--	1480
134-063-16CCC	NDSWC 8706	160	--	--	--	06/21/1973	--	--	U	--	--	--	1510
134-063-18DCC	CARDW, A.	--	1300	--	2	1920	27.00	--	H,S	217DKOT	SNDS	8000	--
134-063-27ADA1	BARTLE, K.	--	1236	--	2	1955	7.00	--	S	217DKOT	SNDS	6600	--
134-063-27ADA2	BARTLE, K.	--	30	--	24	1947	20.00	--	H	--	--	1650	--
134-063-30CCC	WTEST, E.	--	210	--	6	1968	22.00	--	H,S	--	--	880	--

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134-063-31888	NDSWC 8707	60	--	--	--	06/21/1973	--	--	U	--	--	--	1540
134-063-31DD0	NDSWC 8701	60	--	--	--	06/20/1973	--	--	U	--	--	--	1525
134-063-34CC	NDSWC 8703	109	--	--	--	06/20/1973	--	--	U	--	--	--	1510
134-063-35CCC	NDSWC 8704	120	--	--	--	06/20/1973	--	--	U	--	--	--	1495
134-064-02BAD	MATHERN, J.	--	22	--	--	1950	7.00	--	H,S	--	--	1510	--
134-064-03CCC	FORSMAN, G.	--	22	--	22	1971	4.00	--	H	--	--	510	--
134-064-05AA9	NDSWC 8736	40	20	17	1.25	07/12/1973	3.14	07/ /1973	U	112EDGL	SAND	--	1530
134-064-06CDD	THOM, W.	--	190	--	3	1973	--	--	H,S	--	--	--	--
134-064-08AB8	NDSWC 8723	40	--	--	--	07/10/1973	--	--	U	--	--	--	1550
134-064-09BA8	NDSWC 8722	60	40	37	1.25	07/10/1973	0.93	06/17/1975	U	112EDGL	SAND	--	1542
134-064-09BAC1	BRANDENBURG, D.	60	--	--	--	06/ /1974	--	--	U	--	--	--	--
134-064-09BAC2	BRANDENBURG, D.	40	37	21	4	06/24/1974	9.00	06/24/1974	U	112EDGL	SAND	--	--
134-064-09BB3	NDSWC 8721	120	25	22	1.25	07/09/1973	5.24	06/17/1975	U	112EDGL	SAND	635	1548
134-064-09BCA	BRANDENBURG, D.	45	--	--	--	06/ /1974	--	--	U	--	--	--	--
134-064-09BD0	BRANDENBURG, D.	40	--	--	--	06/ /1974	--	--	U	--	--	--	--
134-064-09CAA1	BRANDENBURG, D.	40	--	--	--	06/ /1974	--	--	U	--	--	--	--
134-064-09CAA2	BRANDENBURG, D.	40	--	--	--	06/ /1974	--	--	U	--	--	--	--
134-064-09CAB	BRANDENBURG, D.	40	--	--	--	06/ /1974	--	--	U	--	--	--	--
134-064-09CAC1	BRANDENBURG, D.	63	--	--	--	06/ /1974	--	--	U	--	--	--	--
134-064-09CAC2	BRANDENBURG, D.	63	63	11	10	07/12/1974	12.00	07/ /1974	I	112EDGL	SAND	530	--
134-064-09CAD	BRANDENBURG, D.	60	--	--	--	06/ /1974	--	--	U	--	--	--	--
134-064-09CDB	BRANDENBURG, D.	63	--	--	--	06/ /1974	--	--	U	--	--	--	--
134-064-12000	SCHAFER, V.	--	1320	--	4	1968	30.00	--	H,S	217DKOT	SNDS	--	--
134-064-14CC0	NDSWC 8714	40	--	--	--	06/22/1973	--	--	U	--	--	--	1535
134-064-15BCC	NDSWC 8915C	42	36	30	1.25	10/08/1973	3.10	06/17/1975	U	112EDGL	SAND	--	1545
134-064-15CBB1	NDSWC 8915	60	39	36	1.25	10/08/1973	10.00	--	U	112EDGL	SAND	--	1548
134-064-15CBB2	NDSWC 8915A	60	26	20	1.25	10/08/1973	--	--	U	112EDGL	SAND	--	1544
134-064-15CBB3	NDSWC 8915B	60	43	37	1.25	10/08/1973	--	--	U	112EDGL	SAND	--	1549
134-064-15CBB4	NDSWC 8915D	60	43	37	1.25	10/09/1973	--	--	U	112EDGL	SAND	--	1549
134-064-15CBB5	NDSWC 8915E	40	40	30	1.25	10/11/1973	13.00	--	U	112EDGL	SAND	--	1550
134-064-16AAC	RUFF, L.	55	--	--	--	08/14/1974	--	--	U	--	--	--	--
134-064-16ABB1	NDSWC 8718	60	40	37	1.25	07/09/1973	10.40	06/17/1975	U	112EDGL	SAND	725	1555
134-064-16ABB2	RUFF, L.	65	--	--	--	08/14/1974	11.00	--	U	112EDGL	SAND	--	--
134-064-16BBB	NDSWC 8719	60	--	--	--	07/09/1973	--	--	U	--	--	--	1560
134-064-16CCC	NDSWC 8720	40	--	--	--	07/09/1973	--	--	U	--	--	--	1560
134-064-16DAA1	SALZSIEDER, E.	47	47	10	10	07/17/1974	9.00	07/17/1974	--	112EDGL	SAND	540	--
134-064-16DAA2	NDSWC 8717	60	41	38	1.25	06/22/1973	6.14	06/17/1975	U	112EDGL	SAND	600	1549
134-064-16DAD	SALZSIEDER, E.	48	48	7	10	07/25/1974	6.00	07/25/1974	T	112EDGL	SAND	540	--
134-064-16DCC	NDSWC 8713	40	--	--	--	06/22/1973	--	--	U	--	--	--	1545
134-064-17RCB	FORSMAN, A.	--	17	--	--	1916	10.00	--	H	112EDGL	SAND	520	--

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134-064-22AAB	BITZ, G.	--	12	--	2	1900	4.00	--	H,S	112EDGL	SAND	1400	--
134-064-22ABA	NDSWC 8710	40	26	23	1.25	06/21/1973	1.70	06/17/1975	U	112EDGL	SAND	--	1537
134-064-22AB9	NDSWC 8711	40	--	--	--	06/21/1973	--	--	U	--	--	--	1545
134-064-22BBB1	NDSWC 8712	60	30	27	1.25	06/21/1973	11.30	07/12/1973	U	112EDGL	SAND	630	1550
134-064-22BBB2	NDSWC 9171	40	32	27	4	10/17/1974	9.34	05/14/1975	U	112EDGL	SAND	--	1550
134-064-22BCB	NDSWC 8726	40	15	12	1.25	07/10/1973	2.16	06/17/1975	U	112EDGL	SAND	1500	1541
134-064-22CCD	NDSWC 8716	20	--	--	--	06/22/1973	--	--	U	--	--	--	1538
134-064-22DDC	NDSWC 8715	20	--	--	--	06/22/1973	--	--	U	--	--	--	1535
134-064-23CCD	NDSWC 8724	20	--	--	--	07/10/1973	--	--	U	--	--	--	1540
134-064-23CDC	NDSWC 8725	20	--	--	--	07/10/1973	--	--	U	--	--	--	1540
134-064-24DC	DAVIS, F.	1265	1265	1255	2	--	0.76+	12/02/1970	U	217DKOT	SNDS	--	--
134-064-25DDA	NDSWC 8708	60	--	--	--	06/21/1973	--	--	U	--	--	--	1540
134-064-27DDC	NDSWC 8709	40	--	--	--	06/21/1973	--	--	U	--	--	--	1537
134-064-29BCB	SCHULZ, H.	--	40	40	--	--	5.00	--	H,S	--	--	5000	--
134-064-32CCC	NDSWC 8694	100	--	--	--	06/19/1973	--	--	U	--	--	--	1610
134-064-32DAD	PAULING, L.	100	100	--	6	1956	17.00	--	H	211PIRR	SHLE	5500	--
134-064-33DDD	NDSWC 8696	140	--	--	--	06/19/1973	--	--	U	--	--	--	1565
134-064-34ADD	DAY, H.	57	57	12	10	10/07/1974	15.00	10/07/1974	H	211PIRR	--	--	--
134-064-35BBB	WARD, E.	57	57	10	10	08/21/1974	12.00	--	S	211PIRR	SHLE	2280	--
134-064-35DDD	NDSWC 8698	40	--	--	--	06/20/1973	--	--	U	--	--	--	1525
134-065-05AB9	NDSWC 9172	320	--	--	--	10/17/1974	--	--	U	--	--	--	1710
134-065-08BAC	WEGENAST BROS	--	18	--	24	1969	--	--	H,S	--	--	760	--
134-065-1609A	ROSS, C.	--	189	--	--	1962	--	--	H	--	--	1360	--
134-065-20BAB	TASZAREK, F.	--	180	--	6	1907	100.00	--	H	--	--	1330	--
134-065-22ADD	SCHLOSSER, J.	--	39	--	24	--	8.00	--	H,S	--	--	1790	--
134-065-24ADA	SALZSIEDER, H.	--	180	--	--	1954	--	--	H,S	--	--	5200	--
134-065-26CDD	WEGENAST, R.	--	202+	--	--	06/08/1973	--	--	S	217DKOT	SNDS	2590	1680
134-065-28CDA	PROCHNIAK, P.	--	140	--	6	1896	--	--	H,S	--	--	1300	--
134-065-31CCD	NDSWC 9170	460	254	248	1.25	10/16/1974	61.73	05/12/1975	U	112BGFV	SAND	1260	1915
134-065-35ACC	HEIM BROS	--	14	--	--	1968	--	--	H,S	--	--	1480	--
134-065-35CCD	NDSWC 8691	120	--	--	--	06/19/1973	--	--	U	--	--	--	1750
134-065-35DDD	NDSWC 8692	100	--	--	--	06/19/1973	--	--	U	--	--	--	1690
134-065-36DDH	NDSWC 8693	60	--	--	--	06/19/1973	--	--	U	--	--	--	1665
134-066-020CD	ZUNDEL, E.	174	174	--	4	05/03/1974	20.00	05/03/1974	H	--	--	1290	--
134-066-07BBA	HEIDINGER, A.	74	74	--	24	05/08/1973	60.00	05/08/1973	S	112BGFV	SAND	--	--
134-066-10ADD	ANDERSON, A.	--	200	--	4	1962	--	--	H,S	--	--	1400	--
134-066-19DDA	ERICKSON, O.	--	280	2217	2	05/03/1973	168.00	05/03/1973	S	217DKOT	SNDS	4000	1980
134-066-20BDA	HEIDINGER, H.	--	234	--	24	05/01/1973	40.00	05/01/1973	S	--	--	1200	--
134-066-24BBD	MALM, E.	240	235	--	4	08/06/1974	114.00	08/06/1974	S	112BGFV	SAND	1000	--
134-066-33CCC	NDSWC 9168	420	--	--	--	10/15/1974	--	--	U	--	--	--	1960

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135-059-01ABB	GEINERT, F.	--	1300	--	--	1967	F	--	H,S	217DKOT	SNDS	2700	--
135-059-02DCC	HANSON, M.	--	50	--	--	1949	30.00	--	H,S	--	--	2700	--
135-059-06COC	NELSON, R.	--	30	--	--	--	--	--	H	--	--	2390	--
135-059-08AAB	HAARSAGER, N.	--	38	--	--	1925	--	--	H	--	--	3900	--
135-059-11AAB	NDSWC 9190	80	--	--	--	10/25/1974	--	--	U	--	--	--	1390
135-059-18BCA	HAARSAGER, E.	--	40	--	--	1973	--	--	H,S	--	--	1400	--
135-059-23CDD	KRUEGER, R.	--	1242	1200	2	04/18/1970	F	04/18/1970	H,S	217DKOT	SNDS	3000	1395
135-059-27ABA	HOLUB, F.	46	46	40	30	10/ /1974	20.93	06/25/1975	H,S	--	--	2080	--
135-059-27ADD	TRUCKE, G.	--	100	--	--	--	--	--	H	112BGFV	SAND	1580	--
135-059-29DDD	SATREAS, A.	--	30	--	--	1952	10.00	--	H	--	--	2225	--
135-059-36CCC	STEIDL, E.	--	1209	--	--	1915	--	--	H	217DKOT	SNDS	5050	--
135-060-02DCD	BUBACH, G.	--	37	--	24	1953	20.00	--	H	--	--	4000	1442
135-060-04CBB	SAILER, D.	--	49	--	36	1973	10.00	--	H,S	--	--	1490	1417
135-060-06AAA	KORN, R.	--	46	--	24	1953	29.00	--	H,S	--	--	850	1447
135-060-07DDD	NDSWC 9192	140	--	--	--	10/28/1974	--	--	U	--	--	--	1425
135-060-10DAA	PETERSON, J.	--	15	--	--	1910	8.00	--	H,S	--	--	790	1432
135-060-15AAA	NDSWC 9191	100	--	--	--	10/28/1974	--	--	U	--	--	--	1410
135-060-16CCC	LERE, O.	--	28	--	--	1939	16.00	--	H,S	--	--	1075	--
135-060-24CDD	HANSON, A.	--	1200	--	--	1958	F	--	H,S	217DKOT	SNDS	3050	--
47 135-060-27CDD	ANDERSON, G.	--	32	--	--	--	--	--	H	--	--	880	--
135-060-36CCC1	POTTS, J.	--	27	--	--	1963	15.00	--	H,S	--	--	2450	--
135-060-36CCC2	POTTS, R.	53	53	44	21	12/09/1974	--	--	H,S	112BGFV	SAND	1300	--
135-061-06DAB	BOWEN, C.	160	155	150	4	04/10/1973	87.00	04/10/1973	H,S	112BGFV	SAND	1800	1457
135-061-11AAD	EDD, A.	--	42	34	30	--	30.00	--	H	--	--	1250	1456
135-061-12CCC	NDSWC 9193	120	--	--	--	10/28/1974	--	--	U	--	--	--	1440
135-061-15BBB	NDSWC 9194	120	--	--	--	10/29/1974	--	--	U	--	--	--	1451
135-061-15BCC	ELBER, L.	--	89	--	4	1965	--	--	H,S	--	--	530	1460
135-061-18AAA	NDSWC 9195	120	--	--	--	10/29/1974	--	--	U	--	--	--	1445
135-061-19ADD	LIMESAND, L.	--	1309	--	--	1971	F	--	H,S	217DKOT	SNDS	2775	1447
135-061-24DCC	LAUF, A.	--	15	--	--	1960	12.00	--	H,S	--	--	900	1425
135-061-28CBA	NDSWC 9489	60	40	37	1.25	10/31/1975	23.05	11/04/1975	U	112TRRC	SAND	1050	1338
135-061-28CDD	SEEFELDT, JEROME	--	127	--	--	--	--	--	I	--	--	880	--
135-061-29ADD	SEEFELDT, R.	--	--	--	--	1960	--	--	H,S	--	--	1250	1372
135-061-29DAB	SEEFELDT BROS	126	126	111	16	09/30/1971	6.67	09/30/1971	I	--	--	--	--
135-061-29DAD	SEEFELDT BROS	74	--	--	--	09/29/1971	--	--	U	--	--	--	--
135-061-29DCD	SEEFELDT, R.	--	95	--	--	--	43.00	07/13/1976	I	--	--	800	--
135-061-29DDA	SEEFELDT BROS	64	--	--	--	09/29/1971	--	--	U	--	--	--	--
135-061-33BAB	USBR L-32	25	10	--	3	08/04/1967	6.00	10/ /1970	U	112LMUR	SAND	--	1318
135-061-33BBB	NDSWC 9488	40	--	--	--	10/31/1975	--	--	U	--	--	--	1354
135-061-33CCD1	GRAND RAPIDS	--	90	--	4	09/12/1969	F	--	H	--	--	--	--

LOCAL NUMBER	OWNER	DEPTH DRILLED (FEET)	DEPTH OF WELL (FEET)	DEPTH TO FIRST OPENING (FEET)	CASING DIAMETER (INCHES)	DATE COMPLETED	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED	USE OF WATER	PRINCIPAL AQUIFER	LITHOLOGY OF PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25°C)	ALTITUDE OF LAND SURFACE (FEET)
135-061-33C02	SEEFELDT, A.	83	83	--	--	04/20/1971		--	S	--		1120	--
135-061-33CDC	SEEFELDT, A.	84	83	--	4	04/20/1971		--	S	--		--	--
135-061-35C09	GOTT, H.	--	60	--	4	1958	50.00	--	H,S	--		1125	1442
135-062-03ABA	USBR L-34	20	15	--	3	08/08/1967	10.00	10/ /1970	U	112LMUR	SAND	--	1331
135-062-03BAA	USBR L-35	22	20	--	3	08/08/1967	9.00	10/ /1970	U	112LMUR	SAND	--	1329
135-062-05DAA	SCHMIDT, W.	--	200	--	6	--	190.00	--	H,S	--		900	1497
135-062-07000	NDSWC 9198	300	244	238	1.25	10/30/1974	131.31	01/22/1975	U	112SPRD	SAND	2100	1452
135-062-110001	USBR L-33	20	13	--	3	08/08/1967	11.00	10/ /1970	U	112LMUR	SAND	--	1327
135-062-110002	NDSWC 9196	160	110	107	1.25	10/29/1974	28.30	01/22/1975	U	112SPRD	SAND	1420	1350
135-062-12AAD	LEWIS, W.	--	186	--	6	1959	80.00	--	H	--		1480	1457
135-062-12000	NDSWC 9491	160	--	--	--	11/04/1975		--	U	--		--	1445
135-062-16AAA	NDSWC 9197	280	231	228	1.25	10/30/1974	137.87	01/22/1975	U	112SPRD	SAND	680	1462
135-062-238AB	USBR L-30	30	19	--	3	08/01/1967	9.00	10/ /1970	U	112LMUR	SAND	--	1329
135-062-2688B	USBR L-29	35	32	--	3	08/01/1967	19.00	10/ /1970	U	112LMUR	SAND	--	1339
135-062-2685D	CHAPPELL, W.	--	78	--	4	1900		--	H,S	--		--	1343
135-062-32DAA	RANDALL, G.	--	200	--	4	1952		--	H,S	--		1210	1482
135-062-35CCB	ROSCOE, E.	--	165	--	4	1930	100.00	--	H,S	--		1300	1472
135-063-01DDC	MEIKLEJOHN, G.	--	60	--	4	1945		--	H,S	--		640	--
135-063-03DAD	KARTES, C.	--	120	--	4	1953	20.00	--	H,S	--		870	--
135-063-13AAA	NDSWC 9492	280	224	221	1.25	11/04/1975	132.57	04/12/1976	U	112SPRD	SAND	1850	1455
135-063-14ACG	CUYPERS, D.	--	105	--	3	1948	16.00	--	H,S	--		1760	--
135-063-14BAA	NDSWC 9493	200	--	--	--	11/05/1975		--	U	--		--	1475
135-063-14B9B	STROM, B.	--	80	--	36	1960	15.00	--	H	--		960	--
135-063-17000	NDSWC 9579	180	--	--	--	06/03/1976		--	U	--		--	1430
135-063-18AAA	CARDW, I.	--	180	--	3	1942	30.00	--	H,S	--		1850	--
135-063-20BBC	STEMEN, D.	--	150	--	6	1940		--	H	--		2060	--
135-063-20D00	NDSWC 9578	200	131	128	1.25	06/03/1976	98.47	07/06/1976	U	112NRVL	SAND, GRAVELLY	--	1435
135-063-22CCB	JENSEN, H.	--	160	--	3	1968	60.00	--	H,S	--		1920	--
135-063-23CC2	NDSWC 9199	220	165	163	1.25	10/30/1974	87.62	01/22/1975	U	112NRVL	SAND	2180	1485
135-063-28CCC	NDSWC 9577	160	--	--	--	06/03/1976		--	U	--		--	1440
135-063-33BCA	KREUTSBERG, R.	--	134	--	6	1910	25.00	--	H,S	--		2300	--
135-063-33CCC	NDSWC 9576	140	--	--	--	06/02/1976		--	U	--		--	1445
135-063-35A3A	KREUTSBERG, L.	--	90	--	4	1945		--	H,S	--		2100	--
135-063-36BBB1	NDSWC 9580	240	197	194	1.25	06/04/1976	80.52	07/06/1976	U	112NRVL	SAND, FINE TO COARSE	3000	1475
135-063-36BBB2	NDSWC 9580A	140	127	124	1.25	06/04/1976	81.35	07/06/1976	U	112NRVL	SAND, FINE	2300	1475
135-064-01BAA	PLACE, M.	--	60	--	--	1953		--	H,S	--		1420	1505
135-064-03D00	N.D.HWY. DEPT.	250	142	--	4	--		--	Z	--		--	--
135-064-04CDC	LITTLE, E.	--	25	--	--	1934	10.00	--	H,S	--		875	1505
135-064-08DAA	HOLLINGSWORTH, F.	--	27	--	4	1926		--	H	--		600	1516
135-064-10DDA	HULM, R.	140	21	--	6	10/10/1974	10.00	07/31/1975	U	--		--	--

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135-064-11CCC	EDWARDS, R.	--	163	--	--	1954	--	--	H+S	--	--	1700	1520
135-064-198CB	TOAY, D.	--	170	--	4	1969	--	--	H+S	--	--	1720	--
135-064-23CCD	NDSWC 9506	200	155	152	1.25	11/12/1975	12.13	03/11/1976	U	112NRVL	SAND	1700	1510
135-064-260AA	KAMLETZ, R.	--	80	--	--	1920	60.00	--	H+S	--	--	1600	--
135-064-260BB	KAMLETZ, R.	135	135	--	3	07/18/1972	25.00	07/18/1972	S	112BGFV	SAND	--	--
135-064-27DDA	N.D.HWY. DEPT.	250	--	--	--	--	--	--	--	--	--	--	--
135-064-30CCB	DALLMANN, W.	--	134	--	4	1938	--	--	H+S	--	--	1900	--
135-064-31DDD	NDSWC 8735	180	--	--	--	07/12/1973	--	--	U	--	--	--	1560
135-064-34DCD	SCHLOSSER, P.	--	110	--	--	1973	--	--	H+S	--	--	2490	--
135-065-01ACC	FLEMMER, C.	86	86	81	4	08/13/1973	23.00	08/13/1973	H+S	112BGFV	SAND	--	--
135-065-02CD	KARTES, C.	150	100	--	4	05/07/1974	32.00	06/07/1974	H	--	--	1120	--
135-065-04CCA	JAHN, W.	83	83	80	4	11/15/1972	35.00	11/15/1972	H	112BGFV	SAND	2800	--
135-065-07CBB	HARTLEY, C.	--	105	--	4	1971	20.00	--	H+S	--	--	1810	1757
135-065-09ABA	FREYMARK, A.	--	307	--	4	1954	--	--	H	--	--	3650	1685
135-065-11DAA	DALLMANN, J.	--	120	--	--	--	10.00	--	H+S	--	--	1710	1595
135-065-12BDB	SCHLENKER, R.	188	--	--	--	12/11/1974	--	--	U	--	--	--	--
135-065-15CCD	NDSWC 9173	249	--	--	--	10/17/1974	--	--	U	--	--	--	1332
135-065-18AAD	HARTLEY, H.	--	130	--	--	1969	--	--	H+S	--	--	6600	1747
135-065-22ACB	PFUFF, H.	--	35	--	--	--	5.00	--	H	--	--	1510	--
135-065-23AAD	CARLSON, B.	144	144	140	4	03/06/1974	33.00	03/06/1974	H+S	112BGFV	SAND	1900	--
135-065-26BDB	TOAY, J.	300	287	--	4	05/24/1973	75.00	05/24/1973	H+S	211PIRR	SHLE SAND	--	--
135-065-28BBD	TRIEPKE, H.	106	106	101	4	09/27/1972	25.00	09/27/1972	H+S	112BGFV	SAND	1850	--
135-065-30DCD	BEDKER, H.	--	100	--	--	1924	--	--	H+S	--	--	5000	--
135-065-33CCB	KALMBACH, J.	--	83	--	4	1944	--	--	H+S	--	--	1600	--
135-065-36BCC	SCHWEINEFUS, A.	--	110	--	6	1971	40.00	--	H+S	--	--	2300	--
135-066-07AAB	NDSWC 9174	600	--	--	--	10/18/1974	--	--	U	--	--	--	1735
135-066-14BCC	PODDOLL, R.	--	145	--	--	1967	70.00	--	H+S	--	--	1350	--
135-066-20BAA	SCHLENKER, D.	--	408	--	--	1964	25.00	--	H+S	--	--	1190	--
135-066-27BA0	ELHARD, A.	--	155	--	--	1972	4.00	--	H+S	--	--	1490	--
135-066-30ADC	ELHARD, A.	--	--	--	24	--	--	--	H+S	--	--	2200	--
136-059-01AAB	RUE, P.	--	11	--	--	1935	--	--	H	--	--	495	--
136-059-01DDD	NDSWC 9189	40	--	--	--	10/25/1974	--	--	U	--	--	--	1408
136-059-04CDB	GRINDAHL, C.	--	25	--	--	1952	--	--	S	--	--	1625	--
136-059-06CCC	NDSWC 9487	80	--	--	--	10/31/1975	--	--	U	--	--	--	1449
136-059-08CAB	OLAFSON, L.	--	110	--	--	1940	40.00	--	H	--	--	2910	--
136-059-20ADD	HAUGEN, L.	--	18	--	--	1961	--	--	H	--	--	1210	--
136-059-24BAC	WEGNER, A.	--	62	--	--	1968	--	--	H+S	--	--	2750	--
136-059-27AAA	SMEDSHAMMER, C.	--	1230	--	--	1970	--	--	S	217DKOT	SNDS	2800	--
136-059-30BBB	NDSWC 9481	120	--	--	--	10/27/1975	--	--	U	--	--	--	1468
136-059-30DAD	PETERSON, M.	--	--	--	--	1930	--	--	H	--	--	1590	--

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136-060-01ABA	OPDAHL, A.	--	40	--	--	01/01/1937		--	S,H	112BGFV		5500	--
136-060-05CCC1	ANDERSEN, I.	--	65	--	--	1930		--	H	--		1320	--
136-060-05CCC2	ANDERSEN, I.	--	1535	--	--	1956	F	--	S	217DKOT	SNDS	3025	--
136-060-06CCB	NDSWC 9187	140	--	--	--	10/25/1974		--	U	--		--	1442
136-060-0988B	NDSWC 9188	160	--	--	--	10/25/1974		--	U	--		--	1455
136-060-10AAD	NEUMANN, R.	--	1200	--	--	1903		--	H,S	217DKOT	SNDS	5500	--
136-060-16BDB	HASELEY, L.	--	60	--	24	1950	20.00	--	H,S	--		1800	1463
136-060-28DDD	REGNER, E.	--	56	--	24	1954	40.00	--	H,S	--		1300	1462
136-060-30B8A	BRUSE, L.	--	46	--	18	1910	20.00	--	H,S	--		850	1463
136-060-32AAD	RASSEN, B., JR.	--	56	--	24	1970	48.00	06/06/1974	H,S	--		1300	1465
136-061-02BC4	TRAPP, M.	--	20	--	--	--	15.00	--	H,S	112BGFV	SAND	1720	--
136-061-04000	NDSWC 9186	80	--	--	--	10/25/1974		--	U	--		--	1465
136-061-08ABB	HOLWEG, D.	--	36	--	--	1954		--	H,S	--		1650	1462
136-061-10ACC	CITY OF MARION	50	--	--	--	03/29/1973		--	U	--		--	--
136-061-10BDB	CITY OF MARION	80	--	--	--	03/29/1973		--	U	--		--	--
136-061-10CAA	CITY OF MARION	60	31	21	4	03/28/1973	21.00	03/28/1973	P	112BGFV	SAND	--	--
136-061-10CAC1	CITY OF MARION	60	--	--	--	03/29/1973		--	U	--		--	--
136-061-10CAC2	CITY OF MARION	120	44	41	2	03/29/1973	7.12	03/29/1973	U	112BGFV	SAND	--	--
136-061-10CAC3	CITY OF MARION	60	50	40	8	04/07/1973	6.00	04/07/1973	P	112BGFV	SAND	--	--
136-061-10CCA	CITY OF MARION	--	90	75	8	04/ /1973		--	P	112BGFV	SAND	2000	--
136-061-12CBB	KRONEBUSCH, C.	--	--	--	--	--		--	H,S	--		1090	--
136-061-19AAA	LESTIKOW, A.	--	20	--	24	1952	10.00	--	H	--		1880	1463
136-061-25BAA1	OLSON, H.	--	--	--	--	--		--	H	--		1330	--
136-061-25BAA2	OLSON, H.	--	--	--	--	--		--	S	--		1690	--
136-061-348AA	KETTERLING, E.	--	28	--	--	1959		--	H,S	--		1580	--
136-062-01CCC	NDSWC 9185	100	--	--	--	10/24/1974		--	U	--		--	1450
136-062-03CCC	NDSWC 9184	260	184	178	1.25	10/24/1974	58.41	01/22/1975	U	112SPRD	SAND	1170	1450
136-062-06DDD	NDSWC 9183	240	196	193	1.25	10/24/1974	67.68	01/22/1975	U	112SPRD	SAND	1900	1453
136-062-10AAA	WEBER, B.	--	75	--	36	--		--	H,S	--		1420	1463
136-062-128BA	MILLER, R.	--	50	--	--	1910		--	H,S	--		1250	1457
136-062-18ABA	HEINRICH, D.	--	100	--	24	--		--	H,S	--		2600	1463
136-062-21DAA	MCCLEARY, C.	--	180	--	6	1972		--	H,S	--		1900	1457
136-062-25DAC	PETERSON, LAWRENCE	107	--	--	--	--		--	U	--		--	--
136-062-25DCC1	PETERSON, M.	--	78	--	36	1963	26.00	--	H,S	--		2800	1457
136-062-25DCC2	PETERSON, M.	--	400	--	4	1968		--	H,S	--		7000	1457
136-062-25DDC1	PETERSON, LAWRENCE	167	--	--	--	07/22/1975		--	U	--		--	--
136-062-25DDC2	PETERSON, LAWRENCE	167	--	--	--	07/17/1975		--	U	--		--	--
136-062-30CCD	USBR L-39	30	17	--	3	08/09/1967	12.00	10/ /1970	U	--		--	1337
136-062-30DDD	USBR L-38	20	15	--	3	08/09/1967	12.00	10/ /1970	U	--		--	1336

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136-062-32ADD	TRIEPKE, W.	--	--	--	24	1900		--	H,S	--		2000	1328
136-062-32DAA	USBR L-37	20	15	--	3	08/09/1967	10.00	10/ /1970	U	--		--	1334
136-062-34ACC	USBR L-36	30	29	--	3	08/09/1967	23.00	10/ /1970	U	--		--	1345
136-063-01CCC	NDSWC 9182	260	215	209	1.25	10/23/1974	146.64	01/22/1975	U	112SPRD	SAND	1400	1473
136-063-02ACC	USBR L-45	30	15	--	3	08/11/1967	14.00	10/ /1970	U	--		--	1345
136-063-04CCC	HANSON, D.	--	104	--	4	1930		--	H,S	--		1680	--
136-063-06CC1	NDSWC 9502	100	--	--	--	11/11/1975		--	U	--		--	1494
136-063-08AAB	NDSWC 9495	220	191	188	1.25	11/05/1975	24.10	03/08/1976	U	112SPRD	SAND	1850	1478
136-063-08BBB	NDSWC 9496	120	--	--	--	11/06/1975		--	U	--		--	1485
136-063-10BBB	NDSWC 9181	215	182	179	1.25	10/23/1974	136.05	01/22/1975	U	112SPRD	SAND	2000	1470
136-063-11BBB	NDSWC 9494	120	95	92	1.25	11/05/1975	38.48	04/12/1976	U	112SPRD	SAND	1400	1371
136-063-11DDD	USBR L-42	25	17	--	3	08/10/1967	17.00	10/ /1970	U	--		--	--
136-063-13BBB	SCHRADER, H.	38	38	32	21	10/02/1974	30.00	--	H,S	112BGFV	SAND	780	--
136-063-13CBA	CLEMANS, F.	--	55	--	3	1971	25.00	--	H	--		1180	--
136-063-13C9C	USBR L-41	25	17	--	3	08/10/1967	17.00	10/ /1970	U	--		--	1343
136-063-13CCC	USBR L-40	25	19	--	3	08/09/1967	17.00	10/ /1970	U	--		--	1342
136-063-14BBB	USBR L-43	25	16	--	3	08/09/1967	11.00	10/ /1970	U	--		--	1335
136-063-16DDC	SKATTUM, R.	--	180	--	6	1930	35.00	--	H,S	--		1460	--
136-063-180AA	SCHRADER, D.	--	65	--	36	1910	25.00	--	H,S	--		2800	--
136-063-25AAA	BENJAMIN, E.	--	60	--	4	1958	20.00	--	H	--		1150	--
136-063-28CCC	SMITH, L.	--	100	--	4	1971		--	H	--		1710	--
136-063-29BCC	HANSON, C.	--	125	--	4	1971		--	H,S	--		1830	--
136-063-318AA	EDWARDS, K.	180	--	--	--	06/09/1972		--	U	--		--	--
136-063-34BBB	NDSWC 9180	140	--	--	--	10/22/1974		--	U	--		--	1495
136-064-07CCC	NDSWC 9505	80	--	--	--	11/12/1975		--	U	--		--	1522
136-064-08CDD	MATZ, E.	--	120	--	4	--		--	H,S	--		1750	--
136-064-09CCC1	NDSWC 9178	245	234	228	1.25	10/22/1974	79.20	01/22/1975	U	112NRVL	SAND	1800	1550
136-064-09CCC2	NDSWC 9178A	60	--	--	--	10/22/1974		--	U	--		--	1550
136-064-09DDD	NDSWC 9503	215	--	--	--	11/11/1975		--	U	--		--	1518
136-064-12BCC	SCHRADER, L.	--	160	--	2	1959		--	H	--		1400	--
136-064-13CDD	GORMAN, J.	--	131	--	4	1961	30.00	--	H,S	--		1520	--
136-064-14DAD	ROTT BROS	180	--	--	--	10/21/1971		--	U	--		--	--
136-064-150AA	SMITH, L.	135	135	130	4	09/20/1972		--	H	112BGFV	SAND	--	--
136-064-18AAA	NDSWC 9504	160	121	118	1.25	11/11/1975	35.40	03/08/1976	U	112BGFV	SAND	2600	1517
136-064-20AAA	NDSWC 9177	180	153	150	1.25	10/22/1974	8.14	01/22/1975	U	112NRVL	SAND	--	1511
136-064-25CAA	EDWARDS, L.	170	--	--	--	05/12/1972		--	U	--		--	--
136-064-25CAC	EDWARDS, L.	210	--	--	--	03/13/1972		--	U	--		--	--
136-064-25CAD1	EDWARDS, L.	170	--	--	--	05/12/1972		--	U	--		--	--
136-064-25CAD2	EDWARDS, L.	164	--	--	--	05/23/1972		--	U	--		--	--
136-064-25CDA	EDWARDS, L.	200	--	--	--	03/13/1972		--	U	--		--	--

LOCAL NUMBER	OWNER	DEPTH DRILLED (FEET)	DEPTH OF WELL (FEET)	DEPTH TO FIRST OPENING (FEET)	CASING DIAMETER (INCHES)	DATE COMPLETED	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED	USE OF WATER	PRINCIPAL AQUIFER	LITHOLOGY OF PRINCIPAL AQUIFER	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25°C)	ALTITUDE OF LAND SURFACE (FEET)
136-064-250CC	EDWARDS, L.	210	--	--	--	03/13/1972	--	--	U	--	--	--	--
136-064-26AAA	NDSWC 9179	160	130	127	1.25	10/22/1974	50.73	01/22/1975	U	112BGFV	SAND	1310	1523
136-064-26AAD	OST, M.	--	145	--	2	1943	15.00	--	H,S	--	--	1300	--
136-064-27BDD	ROTT BROS	200	--	--	--	10/21/1971	--	--	U	--	--	--	--
136-064-28BBB	NDSWC 9814	160	143	137	2	10/12/1976	--	--	U	112NRVL	GRVL, SANDY	--	1515
136-064-28CCC	PEAVEY ELEVATOR	120	120	115	4	08/28/1972	30.00	08/07/1972	H	--	--	2600	--
136-064-28CCD1	TERM. ELEVATOR	120	120	115	4	08/07/1972	30.00	08/07/1972	H	112NRVL	SAND	--	--
136-064-28CCD2	SOLINGER, R.	130	130	125	4	10/14/1974	30.00	--	H	112NRVL	SAND	1850	--
136-064-28CCD	HENKE, D.	113	113	109	4	08/03/1972	20.00	08/03/1972	H	112NRVL	SAND	--	--
136-064-29AAA	NDSWC 9813	150	140	134	2	10/12/1976	40.37	12/03/1976	U	112NRVL	GRVL, SANDY	--	1505
136-064-29AAD1	ROTT, A.	155	155	135	16	10/21/1971	40.00	11/ /1973	I	112NRVL	SAND	2220	--
136-064-29AAD2	NDSWC 9810	160	137	134	2	10/07/1976	--	--	U	112NRVL	SAND, GRVLY	--	1510
136-064-29ADA1	NDSWC 9811	160	143	140	2	10/17/1976	--	--	U	112NRVL	GRVL, AND SAND	--	1510
136-064-29ADA2	NDSWC 9812	160	146	143	2	10/11/1976	--	--	U	112NRVL	GRVL, AND SAND	--	1510
136-064-30DC	CARLSON, A.	--	11	--	48	1967	7.00	--	H,S	--	--	2300	--
136-064-34ACB	JOB, L.	--	120	--	4	1969	--	--	H,S	--	--	1800	--
136-065-01DBB	HAMMOND, S.	--	80	--	--	--	30.00	--	H,S	--	--	3200	1545
136-065-06DDA	FODE, F.	--	365	--	4	--	100.00	--	S	--	--	7900	1685
136-065-10CAA	STEELE, D.	--	150	--	4	1967	--	--	H	--	--	3150	1634
136-065-14DDD	ROTT, W.	--	100	--	--	--	60.00	--	H,S	--	--	2400	1683
136-065-16DAB	BARNICK, H.	--	100	--	--	1928	30.00	--	H,S	--	--	--	1652
136-065-20CBC	FREGIEN, E.	--	100	--	4	1958	85.00	--	H	--	--	2700	1694
136-065-24CCC	NDSWC 9176	180	--	--	--	10/21/1974	--	--	U	--	--	--	1590
136-065-26CBC	HICKEY, J.	--	260	--	--	1916	60.00	--	H	--	--	1820	1623
136-065-29BAC	BERGMAN, A.	345	337	--	4	08/27/1973	50.00	08/27/1973	H,S	112RGFV	SAND	--	--
136-065-30BCC	ZUNDEL, J.	83	83	79	4	08/31/1973	66.00	08/31/1973	H,S	112BGFV	SAND	--	--
136-065-32DCC	FREGIEN, D.	--	82	--	--	1896	32.00	--	H,S	--	--	1650	1694
136-065-36CCC	WEGENAST, R.	--	2016	1940	2	06/08/1973	--	06/08/1973	S	217DKOT	SNDS	--	--
136-066-04CC	NDSWC 9175	400	--	--	--	10/21/1974	--	--	U	--	--	--	1865
136-066-06ABB	DBERLANDER, A.	216	--	--	--	09/14/1973	--	--	U	--	--	--	--
136-066-07DDD	SCHLENKER, T.	--	25	--	36	1940	6.00	--	H,S	--	--	3900	--
136-066-10CCC	SCHLENKER, A.	--	26	--	24	1945	5.00	--	H,S	--	--	1400	1874
136-066-14BAC	SCHLENKER, J.	50	50	--	4	05/30/1973	12.00	05/30/1973	H,S	112RGFV	SAND	--	--
136-066-24CBB	KONRAD BROS	--	1600	--	4	1966	30.00	--	H,S	217DKOT	SNDS	2686	1776

TABLE 2.--Water levels in selected wells

EXPLANATION

Water levels shown have been adjusted to feet below or (+) above land surface

MP, measuring point lsd, land surface datum msl, mean sea level

Depth to water, in feet below or (+) above land surface

129-059-01DDD1 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Sept. 11, 1975..	3.67	Apr. 13.....	2.10	Sept. 8.....	8.32
Oct. 10.....	4.08	May 4.....	2.03	Oct. 27.....	7.27
Nov. 5.....	3.72	June 9.....	5.28	Dec. 1.....	7.14
Dec. 12.....	4.00	July 7.....	6.30		
Mar. 10, 1976..	3.81	Aug. 3.....	8.23		

129-059-01DDD2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Sept. 11, 1975..	5.12	Apr. 13.....	3.56	Sept. 8.....	9.70
Oct. 7.....	5.53	May 4.....	3.44	Oct. 27.....	8.67
Nov. 6.....	5.16	June 9.....	6.72	Dec. 1.....	8.53
Dec. 2.....	5.43	July 7.....	7.77		
Mar. 10, 1976..	5.25	Aug. 3.....	9.60		

129-059-03BBB MP is top of 3-inch downspout 1.70 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 25, 1972..	7.80	Mar. 4, 1974..	10.00	Dec. 8.....	8.40
Aug. 28.....	8.90	June 6.....	8.30	June 2, 1976..	7.70
Dec. 4.....	9.30	Sept. 4.....	9.60	July 6.....	8.40
Mar. 6, 1973..	9.60	Dec. 9.....	10.10	Aug. 24.....	9.60
June 4.....	9.00	May 13, 1975..	8.50	Nov. 22.....	10.30
Sept. 6.....	9.90	June 10.....	8.60		
Dec. 5.....	9.70	Sept. 8.....	7.70		

129-059-04BBB2 MP is top of 3-inch downspout 1.20 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	8.70	Mar. 4, 1974..	9.20	Dec. 8.....	7.70
May 25.....	5.60	June 6.....	6.90	Mar. 2, 1976..	7.40
Aug. 28.....	8.10	Sept. 3.....	9.30	June 2.....	7.00
Dec. 4.....	8.70	Dec. 9.....	9.60	July 6.....	8.10
Mar. 6, 1973..	8.60	Feb. 11, 1975..	9.60	Aug. 24.....	9.30
June 4.....	8.00	May 13.....	7.10	Nov. 22.....	10.00
Sept. 6.....	9.50	June 10.....	7.60		
Dec. 5.....	8.80	Sept. 8.....	6.90		

Depth to water, in feet below or (+) above land surface

129-059-04DDD MP is top of 3-inch downspout 1.60 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	7.00	Mar. 4, 1974..	7.10	Dec. 9.....	6.10
May 25.....	4.30	June 6.....	5.30	Mar. 2, 1976..	5.70
Aug. 28.....	6.50	Sept. 4.....	7.30	June 1.....	5.50
Dec. 4.....	7.00	Dec. 9.....	7.40	July 6.....	6.30
Mar. 7, 1973..	6.70	Feb. 10, 1975..	7.40	Aug. 24.....	7.20
June 4.....	6.40	May 13.....	5.60	Nov. 22.....	7.50
Sept. 6.....	7.40	June 10.....	5.70		
Dec. 5.....	6.80	Sept. 8.....	5.80		

129-059-05DDD MP is top of 3-inch downspout 1.70 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	7.10	Mar. 4, 1974..	8.40	Dec. 8.....	6.90
May 25.....	4.70	June 6.....	5.80	Mar. 2, 1976..	6.30
Aug. 28.....	7.50	Sept. 3.....	8.20	June 2.....	6.20
Dec. 4.....	7.90	Dec. 9.....	8.70	July 6.....	7.30
Mar. 7, 1973..	7.90	Feb. 11, 1975..	8.80	Aug. 3.....	8.40
June 4.....	7.40	May 13.....	6.00	Nov. 22.....	8.90
Sept. 7.....	8.80	June 10.....	6.20		
Dec. 5.....	8.00	Sept. 8.....	6.10		

129-059-06CCC MP is top of 3-inch downspout 1.50 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	8.00	Mar. 4, 1974..	8.80	Dec. 8.....	6.70
May 22.....	4.50	June 6.....	6.10	Mar. 5, 1976..	6.20
Aug. 28.....	8.00	Sept. 3.....	8.80	June 1.....	6.40
Dec. 4.....	8.60	Dec. 9.....	9.20	July 6.....	7.60
Mar. 6, 1973..	7.40	Feb. 10, 1975..	9.20	Aug. 23.....	9.20
June 4.....	7.00	May 13.....	5.30	Nov. 22.....	9.20
Sept. 6.....	9.20	June 6.....	6.00		
Dec. 4.....	8.30	Sept. 9.....	6.70		

129-059-07DDD MP is top of 3-inch downspout 1.80 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	7.70	Dec. 4.....	6.80	June 6.....	4.90
May 25.....	2.10	Mar. 5, 1974..	6.80	Sept. 9.....	5.30
Aug. 28.....	6.70	June 6.....	4.10	Dec. 8.....	6.10
Dec. 4.....	7.20	Sept. 3.....	8.00	Mar. 5, 1976..	4.70
Mar. 6, 1973..	6.50	Dec. 9.....	8.00	June 2.....	5.40
June 4.....	5.80	Feb. 11, 1975..	8.00	July 6.....	7.20
Sept. 6.....	7.90	May 13.....	4.20		

129-059-08BBB MP is top of 3-inch downspout 1.80 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	11.10	Mar. 4, 1974..	11.20	Dec. 8.....	9.20
May 25.....	8.20	June 6.....	8.70	Mar. 2, 1976..	9.00
Aug. 28.....	9.60	Sept. 3.....	10.70	June 2.....	8.40
Dec. 4.....	10.30	Dec. 9.....	11.30	July 6.....	9.50
Mar. 6, 1973..	10.00	Feb. 11, 1975..	11.30	Aug. 23.....	10.70
June 4.....	9.60	May 13.....	8.70	Nov. 22.....	11.40
Sept. 6.....	11.20	June 6.....	8.80		
Dec. 4.....	10.70	Sept. 9.....	8.40		

Depth to water, in feet below or (+) above land surface

129-059-08DDD2 MP is top of 3-inch downspout 1.40 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	6.30	Mar. 4, 1974..	6.60	Dec. 8.....	6.20
May 25.....	1.80	June 6.....	4.40	Mar. 5, 1976..	5.00
Aug. 29.....	5.80	Sept. 4.....	7.30	June 2.....	5.30
Dec. 4.....	6.60	Dec. 9.....	7.70	July 6.....	6.30
Mar. 7, 1973..	5.20	Feb. 11, 1975..	7.70	Aug. 24.....	7.50
June 4.....	5.70	May 13.....	4.50	Nov. 22.....	7.90
Sept. 7.....	7.60	June 10.....	5.00		
Dec. 5.....	6.50	Sept. 9.....	5.60		

129-059-10AAA2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Sept. 11, 1975..	7.03	Mar. 10, 1976..	7.08	July 7.....	7.91
Oct. 7.....	7.47	Apr. 13.....	5.66	Aug. 3.....	8.70
Nov. 6.....	7.21	May 4.....	5.70	Sept. 8.....	9.49
Dec. 2.....	7.51	June 10.....	7.34	Oct. 27.....	9.90

129-059-11AAA MP is top of 3-inch downspout 1.50 ft above lsd.

Feb. 22, 1972..	6.80	Mar. 4, 1974..	6.00	Dec. 9.....	5.30
May 25.....	2.50	June 6.....	3.40	Mar. 2, 1976..	4.40
Aug. 28.....	5.60	Sept. 4.....	6.80	June 1.....	4.80
Dec. 4.....	6.30	Dec. 9.....	7.20	July 6.....	6.00
Mar. 7, 1973..	5.30	Feb. 10, 1975..	7.30	Aug. 24.....	7.50
June 4.....	5.30	May 13.....	3.80	Nov. 22.....	8.00
Sept. 6.....	7.00	June 10.....	4.20		
Dec. 5.....	5.70	Sept. 8.....	4.40		

129-059-13AAA MP is top of 3-inch downspout 1.80 ft above lsd.

Feb. 22, 1972..	7.20	Mar. 4, 1974..	6.50	Dec. 9.....	5.40
May 25.....	1.30	June 6.....	2.80	Mar. 2, 1976..	4.60
Aug. 28.....	5.30	Sept. 4.....	6.90	June 1.....	4.40
Dec. 4.....	6.20	Dec. 9.....	7.30	July 6.....	6.30
Mar. 7, 1973..	5.10	Feb. 10, 1975..	7.60	Aug. 24.....	9.00
June 4.....	4.70	May 13.....	3.30	Nov. 22.....	8.60
Sept. 6.....	7.40	June 10.....	3.30		
Dec. 5.....	5.70	Sept. 8.....	4.90		

129-059-13DDD2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Sept. 11, 1975..	4.09	Apr. 13.....	1.66	Sept. 8.....	7.48
Oct. 7.....	4.04	May 4.....	1.43	Oct. 27.....	6.67
Nov. 6.....	3.53	June 9.....	3.55	Dec. 1.....	6.47
Dec. 2.....	3.69	July 7.....	4.97		
Mar. 10, 1976..	3.13	Aug. 3.....	6.42		

Depth to water, in feet below or (+) above land surface

129-059-14BBB MP is top of 3-inch downspout 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	6.30	Mar. 4, 1974..	6.80	Dec. 9.....	5.70
May 25.....	1.30	June 6.....	3.40	Mar. 5, 1976..	4.90
Aug. 29.....	5.50	Sept. 4.....	7.00	June 1.....	4.50
Dec. 4.....	6.60	Dec. 9.....	7.40	July 6.....	5.80
Mar. 7, 1973..	6.80	Feb. 10, 1975..	7.50	Aug. 24.....	7.30
June 4.....	5.20	May 13.....	3.20	Nov. 22.....	7.90
Sept. 7.....	7.20	June 10.....	3.70		
Dec. 5.....	6.00	Sept. 9.....	5.20		

129-059-16CCC MP is top of 3-inch downspout 1.70 ft above lsd.

Feb. 22, 1972..	8.10	Dec. 5.....	7.00	June 10.....	6.60
May 25.....	4.70	Mar. 4, 1974..	5.80	Sept. 9.....	7.80
Aug. 29.....	6.70	June 6.....	5.80	Dec. 8.....	8.40
Dec. 4.....	8.30	Sept. 4.....	8.90	Mar. 5, 1976..	8.40
Mar. 7, 1973..	7.90	Dec. 9.....	8.60	June 2.....	7.80
June 4.....	6.90	Feb. 11, 1975..	8.30	July 6.....	8.80
Sept. 7.....	9.30	May 13.....	6.00		

129-059-18DDD2 MP is top of 3-inch downspout 1.40 ft above lsd.

Feb. 22, 1972..	9.10	Dec. 5.....	9.30	June 6.....	7.20
May 25.....	5.60	Mar. 5, 1974..	10.20	Sept. 9.....	7.30
Aug. 28.....	8.10	June 6.....	6.50	Dec. 8.....	8.40
Dec. 4.....	9.10	Sept. 3.....	10.40	Mar. 5, 1976..	8.00
Mar. 6, 1973..	8.80	Dec. 9.....	10.40	June 2.....	7.10
June 4.....	7.70	Feb. 11, 1975..	10.40	July 6.....	8.20
Sept. 6.....	10.30	May 13.....	6.60		

129-059-19DDD MP is top of 3-inch downspout 1.00 ft above lsd.

Feb. 22, 1972..	8.90	Mar. 5, 1974..	9.80	Dec. 8.....	8.10
May 25.....	5.40	June 6.....	6.90	Mar. 5, 1976..	7.60
Aug. 28.....	7.40	Sept. 3.....	9.50	June 2.....	7.10
Dec. 4.....	8.40	Dec. 9.....	10.20	July 6.....	8.10
Mar. 6, 1973..	8.30	Feb. 11, 1975..	10.50	Aug. 23.....	9.70
June 4.....	7.60	May 13.....	7.40	Nov. 22.....	10.70
Sept. 6.....	9.90	June 6.....	7.60		
Dec. 4.....	8.80	Sept. 9.....	7.40		

129-059-22AAA MP is top of 3-inch downspout 1.70 ft above lsd.

Feb. 22, 1972..	7.40	Mar. 4, 1974..	8.10	Dec. 9.....	6.50
May 25.....	3.10	June 6.....	5.00	Mar. 5, 1976..	6.10
Aug. 29.....	6.30	Sept. 4.....	7.40	June 1.....	5.70
Dec. 4.....	7.20	Dec. 9.....	7.90	July 6.....	6.70
Mar. 7, 1973..	6.30	Feb. 10, 1975..	8.20	Aug. 24.....	7.90
June 4.....	6.30	May 13.....	4.70	Nov. 22.....	8.70
Sept. 7.....	8.20	June 10.....	5.30		
Dec. 5.....	7.50	Sept. 9.....	5.70		

Depth to water, in feet below or (+) above land surface

129-059-22DDD MP is top of 3-inch downspout 1.50 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	7.00	Dec. 5.....	5.50	June 10.....	1.10
May 25.....	.30	Mar. 4, 1974..	2.10	Sept. 9.....	3.40
Aug. 29.....	7.80	June 6.....	.50	Dec. 9.....	5.70
Dec. 4.....	8.00	Sept. 4.....	9.40	Mar. 5, 1976..	1.50
Mar. 7, 1973..	2.20	Dec. 9.....	9.40	June 1.....	2.70
June 4.....	5.00	Feb. 10, 1975..	9.40	July 6.....	7.70
Sept. 7.....	8.40	May 13.....	.68		

129-059-24DDD MP is top of 3-inch downspout 1.30 ft above lsd.

May 25, 1972..	1.00	Mar. 4, 1974..	6.00	Sept. 8.....	4.70
Aug. 28.....	5.20	June 6.....	2.10	Dec. 9.....	5.40
Dec. 4.....	5.30	Sept. 4.....	6.30	Mar. 2, 1976..	4.80
Mar. 7, 1973..	4.70	Dec. 9.....	6.90	June 1.....	4.60
June 4.....	4.30	Feb. 10, 1975..	7.00	July 6.....	6.10
Sept. 6.....	6.70	May 13.....	2.10	Aug. 24.....	7.30
Dec. 5.....	5.30	June 10.....	3.00		

129-059-28AAA MP is top of 3-inch downspout 0.80 ft above lsd.

Feb. 22, 1972..	6.50	Mar. 4, 1974..	6.60	Dec. 8.....	8.20
May 25.....	1.80	June 6.....	3.50	Mar. 5, 1976..	4.20
Aug. 29.....	7.10	Sept. 4.....	10.80	June 2.....	5.50
Dec. 4.....	9.40	Dec. 9.....	13.20	July 6.....	7.80
Mar. 7, 1973..	2.00	Feb. 11, 1975..	13.80	Aug. 24.....	11.50
June 4.....	5.20	May 13.....	5.20	Nov. 22.....	14.70
Sept. 7.....	11.00	June 10.....	4.60		
Dec. 5.....	7.50	Sept. 9.....	6.80		

129-059-29AAA MP is top of 3-inch downspout 1.10 ft above lsd.

May 25, 1972..	7.20	Sept. 7.....	10.70	Dec. 8.....	10.40
Aug. 29.....	9.10	Feb. 11, 1975..	10.80	Mar. 5, 1976..	9.70
Dec. 4.....	9.80	May 13.....	9.27	June 2.....	9.30
Mar. 7, 1973..	9.30	June 10.....	9.40	July 6.....	10.30
June 4.....	9.50	Sept. 9.....	9.60		

129-059-29CCC2 MP is top of 3-inch downspout 1.50 ft above lsd.

Feb. 22, 1972..	7.70	Mar. 5, 1974..	9.70	Dec. 8.....	7.70
May 25.....	5.40	June 6.....	6.20	Mar. 5, 1976..	7.30
Aug. 28.....	6.80	Sept. 3.....	9.60	June 2.....	6.30
Dec. 4.....	8.40	Dec. 9.....	10.40	July 6.....	7.40
Mar. 6, 1973..	8.30	Feb. 11, 1975..	10.60	Aug. 23.....	9.40
June 4.....	6.90	May 13.....	6.70	Nov. 22.....	10.40
Sept. 6.....	9.90	June 6.....	6.80		
Dec. 4.....	8.40	Sept. 9.....	6.70		

Depth to water, in feet below or (+) above land surface

129-059-29DDD MP is top of 3-inch downspout 1.40 ft above 1sd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	9.40	Mar. 4, 1974..	9.30	Dec. 8.....	8.40
May 25.....	5.60	June 6.....	6.50	Mar. 5, 1976..	7.80
Aug. 29.....	8.00	Sept. 4.....	10.30	June 1.....	6.60
Dec. 4.....	8.60	Dec. 9.....	10.60	July 6.....	7.80
Mar. 7, 1973..	8.00	Feb. 11, 1975..	10.70	Aug. 24.....	10.00
June 4.....	6.80	May 13.....	7.40	Nov. 22.....	11.40
Sept. 7.....	10.20	June 10.....	7.20		
Dec. 5.....	9.00	Sept. 9.....	8.10		

129-059-31DDD MP is top of 3-inch downspout 0.70 ft above 1sd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	7.70	Mar. 5, 1974..	6.50	Dec. 8.....	5.90
May 25.....	1.80	June 6.....	3.60	Mar. 5, 1976..	4.20
Aug. 28.....	6.20	Sept. 3.....	8.00	June 1.....	5.20
Dec. 4.....	7.00	Dec. 9.....	8.40	July 6.....	6.80
Mar. 6, 1973..	5.60	Feb. 11, 1975..	8.80	Aug. 23.....	9.00
June 4.....	5.40	May 13.....	3.80	Nov. 22.....	9.90
Sept. 6.....	7.80	June 6.....	4.60		
Dec. 4.....	6.30	Sept. 9.....	4.90		

129-059-33CCC MP is top of 3-inch downspout 1.10 ft above 1sd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	1.60	Mar. 4, 1974..	2.90	Dec. 8.....	2.90
May 25.....	1.00	June 6.....	1.50	Mar. 5, 1976..	2.80
Aug. 29.....	3.60	Sept. 4.....	5.30	June 1.....	3.90
Dec. 4.....	2.50	Dec. 9.....	4.20	July 6.....	5.10
Mar. 7, 1973..	1.60	Feb. 11, 1975..	4.50	Aug. 24.....	7.20
June 4.....	2.20	May 13.....	1.60	Nov. 22.....	6.00
Sept. 7.....	4.70	June 10.....	1.90		
Dec. 5.....	2.70	Sept. 9.....	3.30		

129-059-34AAA MP is top of 3-inch downspout 1.50 ft above 1sd.

Date	Water level	Date	Water level	Date	Water level
May 25, 1972..	0.10	Mar. 4, 1974..	4.80	Sept. 9.....	3.70
Aug. 29.....	4.40	June 6.....	4.40	Dec. 9.....	4.90
Dec. 4.....	6.00	Sept. 4.....	8.20	Mar. 5, 1976..	3.50
Mar. 7, 1973..	1.90	Dec. 9.....	9.70	June 1.....	4.00
June 4.....	3.10	Feb. 10, 1975..	10.50	July 6.....	6.10
Sept. 7.....	9.90	May 13.....	2.20	Aug. 24.....	11.00
Dec. 5.....	5.80	June 10.....	2.80	Nov. 22.....	14.40

129-060-11DDD MP is top of 3-inch downspout 0.90 ft above 1sd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	7.80	Dec. 4.....	8.30	June 6.....	7.70
May 25.....	6.60	Mar. 5, 1974..	8.40	Sept. 9.....	7.40
Aug. 28.....	7.50	June 6.....	7.50	Dec. 8.....	7.90
Dec. 4.....	8.10	Sept. 3.....	8.30	Mar. 5, 1976..	7.70
Mar. 6, 1973..	7.80	Dec. 9.....	8.50	June 1.....	7.30
June 4.....	7.80	Feb. 10, 1975..	8.50	July 6.....	7.70
Sept. 6.....	8.40	May 13.....	7.40	Aug. 23.....	8.20

Depth to water, in feet below or (+) above land surface

129-060-14DDD MP is top of 3-inch downspout 1.70 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 25, 1972..	1.20	Mar. 5, 1974..	6.20	Sept. 9.....	6.00
Aug. 28.....	5.80	June 6.....	1.80	Dec. 8.....	6.70
Dec. 4.....	6.20	Sept. 3.....	7.00	Mar. 5, 1976..	5.90
Mar. 6, 1973..	5.80	Dec. 9.....	7.10	June 1.....	5.80
June 4.....	5.20	Feb. 10, 1975..	7.10	July 6.....	6.90
Sept. 6.....	7.00	May 13.....	3.20		
Dec. 4.....	5.60	June 6.....	4.60		

129-060-35AAA MP is top of 3-inch downspout 1.50 ft above lsd.

Feb. 22, 1972..	14.50	Dec. 4.....	14.60	June 6.....	13.50
May 25.....	9.90	Mar. 5, 1974..	14.40	Sept. 9.....	13.10
Aug. 28.....	12.80	June 6.....	13.00	Dec. 8.....	13.50
Dec. 4.....	13.90	Sept. 3.....	14.90	Mar. 5, 1976..	13.30
Mar. 6, 1973..	13.80	Dec. 9.....	15.10	June 1.....	11.30
June 4.....	13.00	Feb. 10, 1975..	15.10	July 6.....	13.20
Sept. 6.....	15.00	May 13.....	13.40	Aug. 23.....	14.80

129-060-35CCC MP is top of 3-inch downspout 2.50 ft above lsd.

May 25, 1972..	2.70	Mar. 5, 1974..	6.30	Sept. 9.....	2.80
Aug. 28.....	5.50	June 6.....	2.20	Dec. 8.....	3.90
Dec. 4.....	6.40	Sept. 3.....	5.00	Mar. 5, 1976..	3.70
Mar. 6, 1973..	5.10	Dec. 9.....	4.90	June 1.....	4.10
June 4.....	5.10	Feb. 10, 1975..	6.00	July 6.....	6.00
Sept. 6.....	8.00	May 13.....	.74	Aug. 23.....	8.00
Dec. 4.....	6.40	June 6.....	1.90		

129-060-36DDD MP is top of 3-inch downspout 2.00 ft above lsd.

Feb. 22, 1972..	8.40	Dec. 4.....	8.60	June 6.....	6.20
May 25.....	2.20	Mar. 5, 1974..	8.60	Sept. 9.....	7.80
Aug. 28.....	7.30	June 6.....	6.00	Dec. 8.....	8.10
Dec. 4.....	7.90	Sept. 3.....	8.90	Mar. 5, 1976..	6.40
Mar. 6, 1973..	6.50	Dec. 9.....	8.90	June 1.....	4.90
June 4.....	5.30	Feb. 11, 1975..	8.90	July 6.....	7.40
Sept. 6.....	8.60	May 13.....	5.40		

129-061-21BAA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan. 23, 1975..	16.85	Nov. 6.....	14.81	June 11.....	14.61
June 24.....	15.06	Dec. 1.....	14.75	July 8.....	14.65
July 17.....	15.06	Mar. 11, 1976..	14.39	Aug. 5.....	14.73
Sept. 12.....	15.07	Apr. 15.....	14.45	Sept. 10.....	14.74
Oct. 7.....	14.92	May 5.....	14.55	Nov. 30.....	14.66

Depth to water, in feet below or (+) above land surface

129-062-01BAA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 13, 1970..	8.06	Oct. 31.....	9.25	July 30.....	11.53
July 23.....	8.81	Nov. 27.....	9.20	Jan. 23, 1975..	11.48
Aug. 3.....	7.06	Feb. 27, 1973..	9.45	May 14.....	11.48
Dec. 11.....	6.42	Apr. 3.....	9.33	June 25.....	11.42
June 9, 1971..	6.71	May 1.....	9.45	July 17.....	11.75
July 27.....	6.72	May 29.....	9.74	Aug. 14.....	12.05
Sept. 28.....	7.80	June 21.....	10.20	Sept. 12.....	11.97
Oct. 26.....	7.90	July 31.....	10.50	Oct. 7.....	11.93
Nov. 29.....	7.91	Aug. 28.....	10.65	Nov. 6.....	11.80
Dec. 28.....	8.00	Sept. 25.....	10.31	Dec. 1.....	11.82
Feb. 2, 1972..	8.20	Oct. 30.....	10.28	Mar. 11, 1976..	12.11
Mar. 2.....	8.35	Nov. 30.....	10.00	Apr. 15.....	12.17
Apr. 26.....	8.39	Dec. 27.....	10.17	May 5.....	12.24
May 31.....	8.20	Jan. 5, 1974..	10.32	June 11.....	13.14
June 27.....	8.60	Jan. 29.....	10.39	July 8.....	13.26
Aug. 2.....	8.76	Feb. 26.....	10.57	Aug. 5.....	13.70
Aug. 30.....	9.11	Mar. 25.....	10.55	Sept. 10.....	13.70
Sept. 26.....	9.11	May 6.....	10.64	Nov. 30.....	13.35

129-065-35ADC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Dec. 1, 1975..	5.72	May 5.....	1.37	Aug. 5.....	5.98
Mar. 29, 1976..	+1.17	June 11.....	3.83	Sept. 10.....	7.06
Apr. 15.....	.04	July 8.....	4.56	Nov. 30.....	7.95

130-059-01BBC MP is top of 1½-inch plastic pipe 1.20 ft above lsd.

Sept. 11, 1975..	6.11	Mar. 10, 1976..	7.94	July 7.....	8.40
Oct. 7.....	6.93	Apr. 13.....	6.73	Aug. 3.....	8.87
Nov. 6.....	5.94	May 4.....	6.25	Sept. 8.....	9.16
Dec. 2.....	7.45	June 10.....	7.69	Oct. 27.....	9.17

130-059-04DDD MP is top of 3-inch downspout 2.40 ft above lsd.

Feb. 22, 1972..	8.60	Feb. 11, 1975..	9.60	June 1.....	6.40
May 25.....	5.60	May 13.....	7.00	July 6.....	7.30
Aug. 28.....	7.10	June 10.....	8.00	Aug. 24.....	8.50
June 5, 1974..	7.90	Sept. 8.....	6.10	Nov. 22.....	9.10
Sept. 3.....	9.10	Dec. 8.....	7.10		
Dec. 9.....	9.40	Mar. 2, 1976..	7.20		

130-059-08AAA MP is top of 3-inch downspout 1.20 ft above lsd.

Feb. 22, 1972..	6.50	Mar. 4, 1974..	7.00	Dec. 8.....	5.70
May 25.....	4.20	June 5.....	6.00	Mar. 2, 1976..	5.50
Aug. 28.....	5.20	Sept. 3.....	7.50	June 1.....	5.50
Dec. 5.....	5.90	Dec. 9.....	7.70	July 6.....	6.20
Mar. 6, 1973..	6.00	Feb. 11, 1975..	7.90	Aug. 23.....	7.40
June 4.....	5.60	May 13.....	5.40	Nov. 22.....	7.80
Sept. 6.....	6.70	June 10.....	6.60		
Dec. 4.....	6.80	Sept. 8.....	5.20		

Depth to water, in feet below or (+) above land surface

130-059-08ABB MP is top of 3-inch downspout 1.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 25, 1972..	1.80	Mar. 4, 1974..	5.50	Sept. 8.....	4.80
Aug. 28.....	5.60	June 5.....	3.50	Dec. 8.....	6.30
Dec. 5.....	5.60	Sept. 3.....	7.40	Mar. 2, 1976..	4.50
Mar. 6, 1973..	5.50	Dec. 9.....	7.40	June 1.....	5.20
June 4.....	5.40	Feb. 11, 1975..	7.40	July 6.....	7.00
Sept. 6.....	7.50	May 13.....	3.60		
Dec. 4.....	5.80	June 10.....	4.20		

130-059-09CCC MP is top of 3-inch downspout 1.70 ft above lsd.

Feb. 22, 1972..	7.70	Dec. 5.....	8.00	Sept. 8.....	5.80
May 25.....	5.00	Mar. 4, 1974..	8.00	Dec. 8.....	6.60
Aug. 28.....	6.30	June 5.....	7.10	Mar. 2, 1976..	6.60
Dec. 5.....	7.20	Sept. 3.....	8.40	June 1.....	6.30
Mar. 6, 1973..	7.10	Dec. 9.....	8.60	July 6.....	6.80
June 4.....	6.80	Feb. 11, 1975..	8.80	Aug. 24.....	7.80
Sept. 6.....	8.00	June 10.....	7.60	Nov. 22.....	8.40

130-059-09DDD MP is top of 3-inch downspout 1.30 ft above lsd.

May 25, 1972..	2.30	Mar. 4, 1974..	6.00	Dec. 8.....	4.10
Aug. 28.....	4.20	June 5.....	4.20	Mar. 2, 1976..	3.90
Dec. 5.....	5.00	Sept. 3.....	6.10	June 1.....	3.60
Mar. 6, 1973..	4.70	Dec. 9.....	6.20	July 6.....	4.00
June 4.....	4.40	Feb. 11, 1975..	6.50	Aug. 24.....	5.90
Sept. 6.....	5.80	June 10.....	4.60	Nov. 22.....	6.40
Dec. 5.....	5.60	Sept. 8.....	3.10		

130-059-10AAA MP is top of 3-inch downspout 2.10 ft above lsd.

Feb. 22, 1972..	8.60	Mar. 4, 1974..	9.50	Dec. 8.....	7.00
May 25.....	5.90	June 5.....	8.60	Mar. 2, 1976..	7.30
Aug. 28.....	7.50	Sept. 3.....	9.20	June 1.....	6.40
Nov. 29.....	8.10	Dec. 9.....	9.60	July 6.....	7.40
Mar. 6, 1973..	8.50	Feb. 11, 1975..	9.70	Aug. 24.....	8.50
June 4.....	7.60	May 13.....	5.80	Nov. 22.....	9.30
Sept. 6.....	8.90	June 10.....	8.60		
Dec. 5.....	9.20	Sept. 8.....	6.20		

Depth to water, in feet below or (+) above land surface

130-059-13CBC1 MP is top of 3-inch plastic pipe 1.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Oct. 7, 1973..	5.98	Sept. 20.....	6.31	May 15.....	4.65
Jan. 5, 1974..	6.19	Sept. 25.....	6.34	May 17.....	4.61
Jan. 25.....	6.74	Sept. 30.....	6.37	May 20.....	4.59
Jan. 31.....	6.75	Oct. 5.....	6.39	May 25.....	4.58
Feb. 5.....	6.76	Oct. 10.....	6.41	May 31.....	4.62
Feb. 10.....	6.77	Oct. 15.....	6.46	June 5.....	4.48
Feb. 15.....	6.77	Oct. 20.....	6.47	June 10.....	4.56
Feb. 20.....	6.78	Nov. 11.....	6.56	June 15.....	4.60
Feb. 25.....	6.79	Nov. 15.....	6.56	June 18.....	4.57
Feb. 28.....	6.80	Nov. 20.....	6.57	June 20.....	<3.54
Mar. 5.....	6.81	Nov. 25.....	6.57	July 10.....	2.08
Mar. 10.....	6.83	Nov. 30.....	6.57	Aug. 14.....	5.49
May 6.....	5.17	Dec. 5.....	6.58	Sept. 11.....	3.44
June 17.....	4.60	Dec. 10.....	6.58	Nov. 6.....	3.43
July 30.....	5.90	Dec. 15.....	6.59	Dec. 2.....	4.05
Aug. 5.....	5.98	Dec. 20.....	6.59	Apr. 13, 1976..	2.22
Aug. 10.....	5.64	Dec. 25.....	6.60	May 4.....	2.66
Aug. 15.....	5.95	Dec. 31.....	6.60	June 10.....	4.89
Aug. 20.....	6.05	Jan. 23, 1975..	6.74	July 7.....	5.30
Aug. 25.....	6.20	Apr. 20.....	5.72	Aug. 3.....	5.94
Aug. 31.....	6.20	Apr. 25.....	5.53	Sept. 8.....	6.58
Sept. 5.....	6.22	Apr. 30.....	5.34	Oct. 27.....	6.96
Sept. 10.....	6.25	May 5.....	4.91		
Sept. 15.....	6.28	May 10.....	4.71		

130-059-13CCC2 MP is top of 1-inch steel pipe 2.00 ft above lsd.

Feb. 22, 1972..	7.10	Mar. 4, 1974..	9.80	Dec. 9.....	7.40
May 25.....	5.90	June 6.....	7.70	Mar. 2, 1976..	7.30
Aug. 28.....	8.30	Sept. 4.....	9.70	June 2.....	7.00
Nov. 29.....	8.90	Dec. 9.....	10.00	July 6.....	8.30
Mar. 6, 1973..	8.90	Feb. 10, 1975..	10.20	Aug. 24.....	9.70
June 4.....	8.40	May 13.....	8.00	Nov. 22.....	10.50
Sept. 6.....	9.60	June 10.....	8.10		
Dec. 4.....	9.30	Sept. 8.....	6.30		

130-059-13CCC3 MP is top of 2-inch plastic pipe 3.17 ft above lsd.

Oct. 8, 1975..	6.50	Dec. 9.....	6.80	Mar. 2, 1976..	6.70
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Depth to water, in feet below or (+) above land surface

130-059-13C0C4 MP is top of 3-inch plastic pipe 1.00 ft above 1sd.			
Date	Water level	Date	Water level
Oct. 20, 1973..	7.32	May 25.....	5.94
Oct. 25.....	7.29	May 31.....	5.79
Oct. 31.....	7.28	June 5.....	5.68
Nov. 5.....	7.29	June 10.....	5.82
Nov. 10.....	7.29	June 15.....	5.98
Nov. 15.....	7.30	June 20.....	6.12
Nov. 20.....	7.31	June 25.....	6.30
Nov. 25.....	7.31	June 30.....	6.35
Nov. 30.....	7.35	July 5.....	6.48
Dec. 5.....	7.35	July 10.....	6.72
Dec. 10.....	7.38	July 15.....	6.84
Dec. 15.....	7.42	July 20.....	6.94
Dec. 20.....	7.45	July 25.....	7.02
Dec. 25.....	7.49	July 31.....	7.16
Dec. 31.....	7.52	Aug. 5.....	7.25
Jan. 5, 1974..	7.55	Aug. 10.....	7.32
Jan. 10.....	7.59	Aug. 15.....	7.32
Jan. 12.....	8.66	Aug. 20.....	7.37
Mar. 15.....	8.54	Aug. 25.....	7.43
Mar. 20.....	8.41	Aug. 31.....	7.50
May 6.....	6.66	Sept. 5.....	7.56
May 10.....	6.65	Sept. 10.....	7.62
May 15.....	6.58	Sept. 12.....	7.92
May 20.....	6.38	Nov. 15.....	7.92

130-059-15AAA MP is top of 3-inch downspout 1.30 ft above 1sd.			
Feb. 22, 1972..	6.10	Mar. 4, 1974..	6.70
May 23.....	2.60	June 5.....	4.60
Aug. 28.....	5.00	Sept. 3.....	6.80
Nov. 29.....	5.70	Dec. 9.....	6.90
Mar. 7, 1973..	5.50	Feb. 11, 1975..	7.10
June 4.....	4.90	May 13.....	4.80
Sept. 6.....	6.70	June 10.....	4.90
Dec. 5.....	6.30	Sept. 8.....	3.80

130-059-16CCC MP is top of 3-inch downspout 1.00 ft above 1sd.			
Feb. 22, 1972..	9.70	Mar. 4, 1974..	10.20
May 25.....	8.20	June 6.....	9.60
Aug. 28.....	8.50	Sept. 3.....	10.30
Dec. 4.....	9.10	Dec. 9.....	10.50
Mar. 6, 1973..	9.30	Feb. 11, 1975..	10.70
June 4.....	9.00	May 13.....	9.70
Sept. 6.....	9.90	June 10.....	9.60
Dec. 4.....	10.10	Sept. 8.....	8.40

Depth to water, in feet below or (+) above land surface

130-059-16DDD1 MP is top of 3-inch downspout 1.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	8.70	Mar. 4, 1974..	8.90	Dec. 9.....	7.10
May 25.....	6.40	June 6.....	7.70	Mar. 2, 1976..	7.00
Aug. 28.....	7.50	Sept. 4.....	8.90	June 2.....	6.60
Dec. 4.....	8.10	Dec. 9.....	9.20	July 6.....	7.30
Mar. 6, 1973..	8.00	Feb. 11, 1975..	9.30	Aug. 24.....	8.30
June 4.....	7.70	May 13.....	7.70	Nov. 22.....	9.00
Sept. 6.....	8.80	June 10.....	7.80		
Dec. 4.....	8.80	Sept. 8.....	6.40		

130-059-18CCC MP is top of 3-inch downspout 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	8.60	Mar. 4, 1974..	8.80	Dec. 8.....	8.20
May 25.....	6.20	June 5.....	8.20	Mar. 2, 1976..	7.30
Aug. 28.....	7.00	Sept. 3.....	9.10	June 1.....	7.40
Dec. 4.....	7.80	Dec. 9.....	9.30	July 6.....	7.70
Mar. 6, 1973..	7.80	Feb. 10, 1975..	9.30	Aug. 23.....	8.20
June 4.....	7.90	May 13.....	8.00	Nov. 22.....	8.60
Sept. 6.....	8.90	June 10.....	8.60		
Dec. 4.....	8.90	Sept. 8.....	7.70		

130-059-20BBB MP is top of 3-inch downspout 1.60 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	5.00	Mar. 4, 1974..	4.80	Sept. 8.....	1.00
Aug. 29.....	4.20	June 5.....	.90	Dec. 8.....	5.00
Dec. 4.....	5.20	Sept. 3.....	4.90	Mar. 2, 1976..	1.60
Mar. 6, 1973..	4.30	Dec. 9.....	4.90	June 1.....	2.50
June 4.....	3.00	Feb. 10, 1975..	4.90	July 6.....	4.90
Sept. 6.....	5.00	May 13.....	1.90		
Dec. 4.....	5.00	June 10.....	2.90		

130-059-20CCC MP is top of 3-inch downspout 2.10 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	9.70	Mar. 4, 1974..	11.10	Dec. 9.....	8.90
May 25.....	8.10	June 5.....	9.30	Mar. 2, 1976..	8.70
Aug. 28.....	9.30	Sept. 3.....	11.40	June 2.....	9.10
Dec. 4.....	10.40	Dec. 9.....	11.90	July 6.....	10.20
Mar. 6, 1973..	10.50	Feb. 10, 1975..	12.20	Aug. 23.....	11.40
June 4.....	9.40	May 13.....	9.80	Nov. 22.....	12.20
Sept. 6.....	10.90	June 10.....	10.00		
Dec. 4.....	10.50	Sept. 8.....	8.40		

130-059-21DDD MP is top of 3-inch downspout 1.80 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	7.00	Mar. 4, 1974..	7.60	Dec. 8.....	5.60
May 25.....	3.90	June 6.....	5.50	Mar. 5, 1976..	5.70
Aug. 28.....	5.80	Sept. 4.....	7.20	June 2.....	5.00
Dec. 4.....	6.60	Dec. 9.....	7.60	July 6.....	5.80
Mar. 6, 1973..	6.80	Feb. 11, 1975..	7.80	Aug. 24.....	7.20
June 4.....	6.10	May 13.....	5.80	Nov. 22.....	8.00
Sept. 6.....	7.30	June 10.....	5.80		
Dec. 5.....	7.10	Sept. 8.....	5.10		

Depth to water, in feet below or (+) above land surface

130-059-23BBB1 MP is top of 3-inch downspout 2.50 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	7.20	Mar. 4, 1974..	7.80	Dec. 9.....	5.60
May 25.....	3.70	June 6.....	5.70	Mar. 2, 1976..	5.60
Aug. 28.....	6.20	Sept. 4.....	7.70	June 2.....	5.10
Nov. 29.....	7.10	Dec. 9.....	8.00	July 6.....	6.00
Mar. 6, 1973..	6.90	Feb. 10, 1975..	8.20	Aug. 24.....	7.60
June 4.....	6.10	May 13.....	5.80	Nov. 22.....	8.30
Sept. 6.....	7.70	June 10.....	5.70		
Dec. 4.....	7.30	Sept. 8.....	4.70		

130-059-23CCC MP is top of 3-inch downspout 1.90 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	7.50	Mar. 4, 1974..	7.60	Dec. 8.....	5.40
May 25.....	3.10	June 6.....	4.80	Mar. 5, 1976..	5.20
Aug. 28.....	6.30	Sept. 4.....	7.60	June 2.....	5.10
Dec. 4.....	6.90	Dec. 9.....	7.70	July 6.....	6.20
Mar. 6, 1973..	6.60	Feb. 10, 1975..	7.90	Aug. 24.....	7.70
June 4.....	6.20	May 13.....	5.00	Nov. 22.....	8.00
Sept. 6.....	7.70	June 10.....	4.80		
Dec. 5.....	6.90	Sept. 8.....	4.40		

130-059-24DDD2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Sept. 11, 1975..	2.34	Apr. 13, 1976..	1.59	Aug. 3.....	5.05
Oct. 7.....	2.79	May 4.....	1.67	Sept. 8.....	5.73
Nov. 6.....	2.63	June 10.....	3.38	Oct. 27.....	6.02
Dec. 2.....	3.03	July 7.....	4.15		

130-059-26CCC MP is top of 3-inch downspout 1.10 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	9.90	Mar. 4, 1974..	10.20	Dec. 8.....	8.10
May 25.....	7.10	June 6.....	7.70	Mar. 5, 1976..	8.20
Aug. 28.....	8.90	Sept. 4.....	9.90	June 2.....	7.20
Dec. 4.....	9.30	Dec. 9.....	10.40	July 6.....	7.90
Mar. 6, 1973..	9.60	Feb. 10, 1975..	10.60	Aug. 24.....	9.30
June 4.....	8.70	May 13.....	8.40	Nov. 22.....	10.40
Sept. 6.....	9.80	June 10.....	8.30		
Dec. 5.....	9.50	Sept. 8.....	7.30		

130-059-28BBB MP is top of 3-inch downspout 1.50 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	7.50	Dec. 5.....	7.40	June 10.....	6.00
May 25.....	3.80	Mar. 4, 1974..	7.40	Sept. 8.....	5.00
Aug. 28.....	6.20	June 6.....	5.40	Dec. 9.....	6.00
Dec. 4.....	6.60	Sept. 3.....	7.30	Mar. 5, 1976..	6.10
Mar. 6, 1973..	6.90	Dec. 9.....	7.70	June 2.....	5.50
June 4.....	6.20	Feb. 11, 1975..	7.70	July 6.....	6.40
Sept. 6.....	7.20	May 13.....	5.90	Aug. 24.....	7.20

Depth to water, in feet below or (+) above land surface

130-059-28CCC MP is top of 3-inch downspout 0.60 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	6.60	Mar. 4, 1974..	7.10	Dec. 9.....	5.50
May 25.....	2.00	June 6.....	4.40	Mar. 5, 1976..	5.50
Aug. 28.....	5.90	Sept. 3.....	6.80	June 2.....	5.30
Dec. 4.....	6.40	Dec. 9.....	7.20	July 6.....	6.00
Mar. 6, 1973..	6.30	Feb. 11, 1975..	7.40	Aug. 24.....	6.90
June 4.....	5.70	May 13.....	4.50	Nov. 22.....	7.70
Sept. 6.....	7.00	June 10.....	4.90		
Dec. 5.....	6.60	Sept. 8.....	4.40		

130-059-29CCC MP is top of 3-inch downspout 2.40 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 25, 1972..	6.90	Dec. 4.....	10.00	June 10.....	8.50
Aug. 28.....	9.20	Mar. 4, 1974..	10.80	Sept. 8.....	7.50
Dec. 4.....	9.90	June 5.....	8.00	Dec. 8.....	8.70
Mar. 6, 1973..	9.90	Sept. 3.....	10.70	Mar. 5, 1976..	8.50
June 4.....	9.20	Dec. 9.....	10.80	June 1.....	7.90
Sept. 6.....	10.80	May 13, 1975..	8.10	July 6.....	8.80

130-059-31CDD MP is top of 3-inch downspout 1.80 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	7.60	Mar. 4, 1974..	6.80	Dec. 8.....	5.00
May 25.....	4.10	June 5.....	4.70	Mar. 2, 1976..	4.00
Aug. 28.....	6.00	Sept. 3.....	7.10	June 1.....	4.50
Dec. 4.....	6.50	Dec. 9.....	6.90	July 6.....	5.70
Mar. 6, 1973..	6.20	Feb. 10, 1975..	7.20	Aug. 23.....	7.50
June 4.....	5.90	May 13.....	4.50	Nov. 22.....	7.40
Sept. 6.....	7.80	June 10.....	4.90		
Dec. 4.....	6.10	Sept. 8.....	4.40		

130-059-34BBB MP is top of 3-inch downspout 1.80 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	8.10	Dec. 5.....	8.10	June 10.....	6.90
May 25.....	5.10	Mar. 4, 1974..	8.40	Sept. 8.....	6.10
Aug. 28.....	7.20	June 6.....	6.30	Dec. 8.....	6.90
Dec. 4.....	7.50	Sept. 4.....	8.30	Mar. 5, 1976..	6.70
Mar. 6, 1973..	7.70	Dec. 9.....	8.60	June 2.....	6.30
June 4.....	7.30	Feb. 11, 1975..	8.70	July 6.....	7.20
Sept. 6.....	8.50	May 13.....	6.70	Aug. 24.....	8.30

130-060-12BBB MP is top of 3-inch downspout 1.20 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	10.10	Mar. 5, 1974..	9.10	Dec. 8.....	9.00
May 25.....	4.30	June 6.....	5.00	Mar. 5, 1976..	9.20
Aug. 28.....	7.30	Sept. 3.....	9.80	June 1.....	7.10
Dec. 4.....	8.50	Dec. 9.....	10.80	July 6.....	8.10
Mar. 6, 1973..	5.50	Feb. 10, 1975..	11.10	Aug. 23.....	9.30
June 4.....	6.50	May 13.....	4.90	Nov. 22.....	10.70
Sept. 6.....	9.30	June 6.....	6.10		
Dec. 4.....	7.80	Sept. 9.....	7.60		

Depth to water, in feet below or (+) above land surface

130-060-25AAA MP is top of 3-inch downspout 1.80 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	8.80	Mar. 4, 1974..	8.90	Dec. 8.....	8.20
May 25.....	6.60	June 5.....	8.00	Mar. 5, 1976..	7.60
Aug. 28.....	8.20	Sept. 3.....	9.60	June 1.....	7.80
Dec. 4.....	8.50	Dec. 9.....	9.40	July 6.....	8.70
Mar. 6, 1973..	8.00	Feb. 10, 1975..	9.50	Aug. 23.....	9.50
June 4.....	8.20	May 13.....	8.00	Nov. 22.....	9.50
Sept. 6.....	9.20	June 10.....	8.40		
Dec. 4.....	9.00	Sept. 8.....	7.50		

130-060-25DDD MP is top of 3-inch downspout 1.10 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 25, 1972..	1.00	Dec. 4.....	6.30	June 10.....	1.10
Aug. 28.....	4.80	Mar. 4, 1974..	7.10	Sept. 8.....	1.80
Dec. 4.....	6.00	June 6.....	2.40	Dec. 8.....	3.50
Mar. 6, 1973..	6.10	Sept. 3.....	6.90	June 1, 1976..	3.60
June 4.....	5.00	Dec. 9.....	7.00	July 6.....	6.20
Sept. 6.....	7.20	Feb. 10, 1975..	7.00		

130-061-11DCC1 MP is top of 1½-inch plastic pipe 1.40 ft above lsd.

Nov. 30, 1976.. 31.58

130-061-11DCC2 MP is top of 1½-inch plastic pipe 2.40 ft above lsd.

Nov. 30, 1976.. 31.55

130-061-14BBB2 MP is top of 1½-inch plastic pipe 1.70 ft above lsd.

Nov. 30, 1976.. 24.43

130-061-29BBB MP is top of 1½-inch plastic pipe 1.90 ft above lsd.

July 27, 1971..	18.00	Apr. 3.....	20.02	May 14.....	22.14
Sept. 1.....	18.28	May 1.....	20.08	June 25.....	22.08
Sept. 28.....	18.61	May 29.....	20.29	July 17.....	22.25
Oct. 26.....	18.64	June 26.....	20.63	Aug. 14.....	22.50
Nov. 29.....	18.81	July 31.....	21.01	Sept. 12.....	22.47
Dec. 28.....	18.88	Aug. 28.....	21.15	Oct. 7.....	22.36
Feb. 2, 1972..	19.00	Sept. 25.....	20.88	Nov. 6.....	22.32
Mar. 2.....	19.16	Oct. 30.....	20.89	Dec. 1.....	22.34
Apr. 26.....	19.27	Nov. 30.....	20.95	Mar. 11, 1976..	22.53
May 31.....	18.91	Dec. 27.....	20.87	Apr. 15.....	22.59
June 27.....	19.04	Jan. 5, 1974..	20.91	May 5.....	22.67
Aug. 2.....	19.30	Jan. 29.....	21.00	June 11.....	23.21
Aug. 30.....	19.54	Feb. 26.....	21.15	July 8.....	23.32
Sept. 26.....	19.63	Mar. 25.....	21.29	Aug. 5.....	23.74
Oct. 31.....	19.70	May 6.....	21.34	Sept. 10.....	23.93
Nov. 27.....	19.76	July 30.....	22.02		
Feb. 27, 1973..	20.04	Jan. 23, 1975..	22.17		

Depth to water, in feet below or (+) above land surface

130-061-30BBB MP is top of 1½-inch plastic pipe 1.90 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 13, 1970..	8.88	May 1, 1973..	10.92	May 14.....	13.04
July 23.....	9.53	May 29.....	11.12	June 25.....	12.93
Dec. 11.....	8.00	June 26.....	11.50	July 17.....	13.16
June 9, 1971..	8.59	July 31.....	11.89	Aug. 14.....	13.40
July 27.....	8.59	Aug. 28.....	11.91	Sept. 12.....	13.32
Sept. 1.....	9.03	Sept. 25.....	11.69	Oct. 7.....	13.25
Sept. 28.....	9.43	Oct. 30.....	11.77	Nov. 6.....	13.20
Oct. 26.....	9.49	Nov. 30.....	11.85	Dec. 1.....	13.32
Nov. 29.....	9.60	Dec. 27.....	11.65	Mar. 11, 1976..	13.44
Dec. 28.....	9.70	Jan. 4, 1974..	12.00	Apr. 15.....	13.49
Mar. 2, 1972..	9.98	Jan. 29.....	11.85	May 5.....	13.59
Apr. 26.....	10.05	Mar. 25.....	12.05	June 11.....	14.23
May 31.....	9.74	May 6.....	12.15	July 8.....	14.31
June 26.....	10.03	July 30.....	12.90	Aug. 5.....	14.68
Aug. 2.....	10.18	Jan. 23, 1975..	13.03	Sept. 10.....	14.77

130-062-26CCC MP is top of 1½-inch plastic pipe 1.90 ft above lsd.

Dec. 11, 1968..	9.32	Feb. 2, 1972..	11.69	Jan. 29.....	13.91
Jan. 14, 1969..	9.25	Mar. 2.....	11.88	Feb. 26.....	14.02
Feb. 13.....	9.30	Apr. 26.....	12.10	Mar. 25.....	14.19
Mar. 3.....	9.25	May 31.....	11.73	May 6.....	14.14
Mar. 27.....	9.25	June 27.....	12.08	July 30.....	15.02
Apr. 10.....	8.84	Aug. 2.....	12.31	Jan. 23, 1975..	15.08
July 1.....	8.80	Aug. 30.....	12.62	May 14.....	14.99
July 31.....	8.90	Sept. 26.....	12.69	June 25.....	15.01
Aug. 27.....	8.92	Oct. 31.....	12.62	July 17.....	15.25
Oct. 14.....	9.05	Nov. 27.....	12.72	Aug. 14.....	15.74
Nov. 18.....	9.15	Feb. 27, 1973..	12.88	Sept. 12.....	15.65
May 13, 1970..	9.24	Apr. 3.....	12.83	Oct. 7.....	15.50
July 23.....	10.35	May 1.....	12.89	Nov. 6.....	15.42
Aug. 1.....	10.35	May 29.....	13.15	Dec. 1.....	15.31
Dec. 11.....	9.80	June 26.....	13.59	Mar. 11, 1976..	15.60
June 9, 1971..	10.99	July 31.....	14.06	Apr. 15.....	15.58
July 27.....	10.37	Aug. 28.....	13.85	May 5.....	15.78
Sept. 1.....	10.57	Sept. 25.....	13.78	June 11.....	15.52
Sept. 28.....	11.20	Oct. 30.....	13.84	July 8.....	16.58
Oct. 26.....	11.27	Nov. 30.....	13.95	Aug. 5.....	17.08
Nov. 29.....	11.47	Dec. 27.....	13.73	Sept. 10.....	17.28
Dec. 28.....	11.57	Jan. 5, 1974..	13.91	Nov. 30.....	16.83

130-066-07DAA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Nov. 20, 1975..	+9.00	Apr. 15.....	+10.00	July 8.....	+8.40
Dec. 1.....	+10.00	May 5.....	+10.50	Aug. 5.....	+8.50
Mar. 25, 1976..	+10.20	June 11.....	+8.70	Sept. 10.....	+6.80

131-059-01DDA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

May 13, 1976..	13.97	Aug. 3.....	16.43	Dec. 1.....	15.52
June 10.....	14.43	Sept. 8.....	16.55		
July 7.....	15.60	Oct. 27.....	15.80		

Depth to water, in feet below or (+) above land surface

131-059-02AAA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 14, 1975..	+0.81	Sept. 11.....	0.18	July 7.....	2.47
June 18.....	+ .14	Oct. 7.....	+ .44	Aug. 3.....	3.66
July 17.....	+ .15	May 4, 1976..	+1.50	Sept. 8.....	3.47
Aug. 14.....	2.02	June 10.....	+ .41	Oct. 7.....	2.14

131-059-03BBB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 14, 1975..	+0.35	Oct. 7.....	+0.42	Aug. 3.....	0.11
June 18.....	+ .49	Nov. 13.....	+ .41	Sept. 8.....	1.06
July 17.....	+ .47	May 4, 1976..	+ .35	Oct. 7.....	.45
Aug. 14.....	+ .47	June 10.....	+ .62		
Sept. 11.....	+ .47	July 7.....	+ .56		

131-059-05BBB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 23, 1975..	17.73	Oct. 7.....	17.66	June 10.....	18.04
May 12.....	17.55	Nov. 6.....	17.48	July 7.....	18.81
June 18.....	17.39	Dec. 2.....	17.53	Aug. 3.....	20.41
July 17.....	16.94	Mar. 9, 1976..	17.32	Sept. 8.....	21.30
Aug. 14.....	18.27	Apr. 13.....	17.16		
Sept. 11.....	18.28	May 4.....	16.95		

131-059-15AAA1 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 23, 1975..	31.06	Oct. 7.....	30.87	June 10.....	32.90
May 14.....	30.49	Nov. 13.....	30.33	July 7.....	36.63
June 18.....	31.50	Dec. 2.....	30.18	Aug. 3.....	37.27
July 17.....	32.92	Mar. 9, 1976..	29.73	Sept. 8.....	35.90
Aug. 14.....	33.33	Apr. 13.....	29.68	Oct. 27.....	33.19
Sept. 11.....	31.48	May 4.....	29.65	Dec. 1.....	32.41

131-059-15AAA2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 23, 1975..	31.45	Oct. 7.....	31.41	June 10.....	31.23
May 14.....	31.49	Nov. 13.....	31.32	July 7.....	31.22
June 18.....	31.38	Dec. 2.....	31.36	Aug. 3.....	31.25
July 17.....	31.53	Mar. 9, 1976..	31.34	Sept. 8.....	31.27
Aug. 14.....	31.47	Apr. 13.....	31.34	Oct. 27.....	31.40
Sept. 11.....	31.40	May 4.....	31.30	Dec. 1.....	31.39

131-059-15BBB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 23, 1975..	39.65	Oct. 7.....	38.97	June 10.....	87.53
May 14.....	38.59	Nov. 13.....	38.08	July 7.....	109.47
June 18.....	43.09	Dec. 2.....	37.84	Aug. 3.....	83.38
July 17.....	78.14	Mar. 9, 1976..	37.11	Sept. 8.....	62.04
Aug. 14.....	47.74	Apr. 13.....	36.91	Oct. 27.....	41.49
Sept. 11.....	39.75	May 4.....	36.78	Dec. 1.....	40.38

Depth to water, in feet below or (+) above land surface

131-059-17AAA2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 23, 1975..	19.01	Oct. 7.....	16.93	June 10.....	17.23
May 14.....	18.19	Nov. 6.....	16.95	July 7.....	17.42
June 18.....	18.22	Dec. 2.....	17.03	Aug. 3.....	17.91
July 17.....	17.09	Mar. 9, 1976..	16.92	Sept. 8.....	18.26
Aug. 14.....	17.04	Apr. 13.....	16.85		
Sept. 11.....	16.94	May 4.....	16.93		

131-059-17DAA MP is top of 3-inch downspout 1.30 ft above lsd.

May 25, 1972..	17.20	Mar. 5, 1974..	17.70	Sept. 8.....	15.70
Aug. 28.....	16.80	June 4.....	17.90	Dec. 8.....	16.10
Dec. 5.....	16.80	Sept. 3.....	17.50	Mar. 2, 1976..	16.30
Mar. 8, 1973..	16.80	Dec. 10.....	17.30	June 1.....	16.50
June 4.....	17.20	Feb. 10, 1975..	17.50	July 6.....	16.60
Sept. 6.....	17.50	May 12.....	16.68	Aug. 1.....	16.90
Dec. 5.....	17.60	June 10.....	16.90	Nov. 22.....	17.20

131-059-20AAA1 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan. 23, 1975..	32.27	Oct. 7.....	30.21	June 10.....	52.92
May 14.....	31.23	Nov. 6.....	28.89	July 7.....	66.76
June 18.....	31.43	Dec. 2.....	28.42	Aug. 3.....	62.30
July 17.....	63.02	Mar. 9, 1976..	27.80	Sept. 8.....	40.26
Aug. 14.....	35.59	Apr. 13.....	27.58	Oct. 27.....	31.42
Sept. 11.....	29.05	May 4.....	27.43	Dec. 1.....	30.62

131-059-20AAA2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan. 23, 1975..	30.25	Oct. 7.....	30.12	June 10.....	30.33
May 14.....	29.25	Nov. 6.....	29.80	July 7.....	33.49
June 18.....	31.57	Dec. 2.....	27.50	Aug. 3.....	34.86
July 17.....	31.28	Mar. 9, 1976..	29.31	Sept. 8.....	34.86
Aug. 14.....	31.58	Apr. 13.....	29.11	Oct. 27.....	33.15
Sept. 11.....	30.58	May 4.....	29.02	Dec. 1.....	32.54

131-059-26BCB2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Sept. 11, 1975..	37.30	Mar. 10, 1976..	37.31	July 7.....	37.28
Oct. 7.....	37.53	Apr. 13.....	37.24	Aug. 3.....	37.29
Nov. 6.....	37.49	May 4.....	37.22	Sept. 8.....	37.50
Dec. 1.....	37.47	June 10.....	37.24	Oct. 27.....	37.70

Depth to water, in feet below or (+) above land surface

131-059-27BBB1 MP is top of 3-inch downspout 1.50 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	10.70	Mar. 5, 1974..	12.20	Dec. 8.....	11.30
May 25.....	9.70	June 4.....	11.90	Mar. 2, 1976..	10.90
Aug. 28.....	10.40	Sept. 3.....	13.30	June 1.....	11.30
Dec. 5.....	10.70	Dec. 10.....	12.90	July 6.....	12.70
Mar. 8, 1973..	10.70	Feb. 10, 1975..	12.80	Aug. 23.....	13.90
June 4.....	10.90	May 13.....	12.02	Nov. 22.....	13.40
Sept. 6.....	12.40	June 10.....	12.40		
Dec. 5.....	12.20	Sept. 8.....	11.40		

131-059-27BCB MP is top of 3-inch downspout 2.00 ft above lsd.

Feb. 22, 1972..	7.90	Mar. 5, 1974..	9.10	Dec. 8.....	8.30
May 25.....	6.30	June 4.....	8.80	Mar. 2, 1976..	8.00
Aug. 28.....	7.40	Sept. 3.....	9.60	June 1.....	8.00
Dec. 5.....	7.90	Dec. 10.....	9.80	July 6.....	8.70
Mar. 8, 1973..	7.70	Feb. 10, 1975..	9.70	Aug. 23.....	9.80
June 4.....	8.10	May 13.....	8.90	Nov. 22.....	10.40
Sept. 6.....	9.00	June 10.....	9.00		
Dec. 5.....	9.20	Sept. 8.....	8.00		

131-059-27DCC1 MP is top of 3-inch downspout 2.20 ft above lsd.

Feb. 22, 1972..	8.50	Dec. 5.....	10.40	June 10.....	9.80
May 25.....	8.20	Mar. 5, 1974..	9.40	Sept. 8.....	9.20
Aug. 28.....	9.10	June 4.....	9.80	Dec. 8.....	9.40
Nov. 29.....	10.10	Sept. 3.....	10.40	Mar. 2, 1976..	9.30
Mar. 6, 1973..	8.90	Dec. 10.....	10.20	June 1.....	9.70
June 4.....	10.10	Feb. 10, 1975..	9.80	July 6.....	10.00
Sept. 6.....	10.60	May 13.....	9.50	Aug. 23.....	10.80

131-059-28ACC MP is top of 3-inch downspout 1.50 ft above lsd.

Feb. 22, 1972..	6.10	Sept. 6.....	7.10	Feb. 10, 1975..	7.60
May 25.....	4.00	Dec. 5.....	7.40	June 10.....	6.90
Aug. 28.....	5.10	Mar. 5, 1974..	7.20	Sept. 8.....	6.00
Dec. 5.....	6.30	June 4.....	6.60	Dec. 8.....	6.50
Mar. 8, 1973..	6.10	Sept. 3.....	7.50	Mar. 2, 1976..	6.10
June 4.....	6.40	Dec. 10.....	7.60	Destroyed	

131-059-28ADC MP is top of 3-inch downspout 0.40 ft above lsd.

Feb. 22, 1972..	7.50	Dec. 5.....	8.80	Sept. 8.....	7.30
May 25.....	6.10	Mar. 5, 1974..	8.80	Dec. 8.....	7.90
Aug. 28.....	7.20	June 4.....	8.30	Mar. 2, 1976..	7.80
Dec. 4.....	7.30	Sept. 3.....	8.90	June 1.....	7.90
Mar. 8, 1973..	7.60	Dec. 10.....	9.20	July 6.....	7.90
June 4.....	7.90	Feb. 10, 1975..	9.10	Aug. 23.....	7.90
Sept. 6.....	8.50	June 10.....	8.20	Destroyed	

Depth to water, in feet below or (+) above land surface

131-059-28BA MP is top of 1½-inch steel pipe 1.10 ft above lsd.

Date	Water Level	Date	Water Level	Date	Water Level
June 21, 1940..	10.47	Aug. 17.....	8.24	Aug. 17.....	8.60
July 20.....	10.57	Sept. 16.....	8.25	Sept. 14.....	8.89
Aug. 17.....	10.66	Oct. 18.....	8.54	Oct. 12.....	8.95
Sept. 15.....	10.69	Nov. 15.....	8.46	Nov. 16.....	8.90
Oct. 12.....	10.41	Dec. 13.....	8.53	Dec. 14.....	8.84
Nov. 16.....	10.70	Jan. 17, 1949..	8.66	Jan. 18, 1954..	8.93
Dec. 14.....	10.70	Feb. 14.....	8.66	Feb. 15.....	8.80
Jan. 18, 1941..	10.71	Mar. 14.....	8.62	Mar. 15.....	8.74
Feb. 15.....	10.69	Apr. 14.....	8.36	Apr. 12.....	8.70
Mar. 15.....	10.68	May 16.....	8.13	May 17.....	8.70
Apr. 12.....	10.01	June 13.....	8.40	June 14.....	8.86
May 17.....	9.85	July 18.....	8.64	July 12.....	9.10
June 14.....	9.69	Aug. 15.....	8.85	Aug. 16.....	9.46
July 12.....	9.58	Sept. 12.....	9.03	Sept. 13.....	9.55
Aug. 16.....	9.98	Oct. 17.....	9.10	Oct. 18.....	9.54
Sept. 13.....	10.01	Nov. 14.....	9.01	Nov. 15.....	9.46
Oct. 18.....	9.88	Dec. 14.....	9.05	Dec. 13.....	9.44
Nov. 15.....	9.88	Jan. 6, 1950..	9.10	Jan. 17, 1955..	9.50
Dec. 13.....	9.88	Feb. 14.....	9.18	Feb. 14.....	9.50
Jan. 17, 1942..	9.89	Mar. 13.....	8.84	Mar. 14.....	9.45
Feb. 14.....	9.92	Apr. 12.....	8.64	Apr. 18.....	9.36
Mar. 14.....	10.04	May 16.....	7.61	May 16.....	9.50
Apr. 18.....	9.83	June 20.....	7.90	June 13.....	9.46
May 16.....	9.48	July 17.....	8.20	July 18.....	9.68
June 15.....	8.69	Aug. 14.....	8.52	Aug. 15.....	9.82
July 13.....	8.81	Sept. 18.....	8.77	Sept. 12.....	9.95
Aug. 17.....	8.92	Oct. 17.....	8.76	Oct. 17.....	10.00
Oct. 20, 1943..	7.67	Nov. 13.....	8.80	Nov. 14.....	9.03
June 20, 1944..	6.79	Dec. 18.....	8.93	Dec. 12.....	9.94
Nov. 7.....	6.93	Jan. 15, 1951..	9.06	Jan. 17, 1956..	9.96
May 5, 1945..	5.98	Feb. 12.....	9.16	Feb. 13.....	9.95
Oct. 7.....	7.80	Mar. 12.....	9.14	Mar. 13.....	9.97
Apr. 17, 1946..	6.90	Apr. 16.....	8.67	Apr. 16.....	9.64
May 13.....	7.24	May 14.....	8.64	May 14.....	9.51
June 18.....	7.61	June 18.....	9.17	June 11.....	9.67
July 16.....	7.69	July 16.....	9.16	July 16.....	10.00
Aug. 12.....	8.06	Aug. 13.....	9.64	Aug. 13.....	10.10
Sept. 16.....	8.26	Sept. 17.....	9.60	Sept. 17.....	10.24
Oct. 14.....	7.86	Oct. 15.....	9.60	Oct. 15.....	10.29
Nov. 4.....	7.98	Nov. 12.....	9.60	Nov. 12.....	10.09
Dec. 5.....	8.16	Dec. 17.....	9.65	Dec. 18.....	10.04
Jan. 6, 1947..	8.17	Jan. 14, 1952..	9.72	Jan. 14, 1957..	10.06
Feb. 19.....	8.32	Feb. 4.....	9.74	Feb. 15.....	10.12
Mar. 12.....	8.35	Mar. 11.....	9.80	Mar. 18.....	10.12
Apr. 15.....	7.91	Apr. 14.....	8.60	Apr. 14.....	10.05
May 12.....	7.39	May 12.....	8.74	May 13.....	10.74
June 16.....	7.09	June 16.....	9.05	June 12.....	10.15
July 15.....	7.50	July 14.....	9.25	July 9.....	10.31
Aug. 18.....	8.05	Aug. 18.....	9.58	Nov. 21.....	10.28
Sept. 15.....	8.33	Sept. 15.....	9.73	May 9, 1958..	10.01
Oct. 14.....	8.64	Oct. 13.....	9.79	May 7, 1959..	10.40
Nov. 10.....	8.27	Nov. 17.....	9.77	Sept. 10.....	11.01
Dec. 16.....	8.25	Dec. 15.....	9.74	May 10, 1960..	9.77
Jan. 14, 1948..	8.29	Jan. 12, 1953..	9.74	Nov. 2.....	9.36
Feb. 16.....	8.46	Feb. 16.....	9.80	May 2, 1961..	9.17
Mar. 11.....	8.40	Mar. 16.....	9.53	Nov. 7.....	9.56
Apr. 13.....	7.06	Apr. 13.....	9.49	May 22, 1962..	8.68
May 17.....	6.60	May 12.....	9.04	Nov. 28.....	8.57
June 14.....	7.95	June 16.....	8.00	Apr. 22, 1963..	8.46
July 12.....	8.16	July 13.....	8.10	Dec. 3.....	9.15

Depth to water, in feet below or (+) above land surface

131-059-288A, Continued

Date	Water level	Date	Water level	Date	Water level
May 11, 1964..	8.50	Feb. 27, 1968..	9.52	Nov. 28, 1972..	10.32
Oct. 14.....	9.22	July 11.....	8.51	Nov. 30, 1973..	11.35
Nov. 25.....	9.22	Jan. 10, 1969..	9.21	Jan. 11, 1976..	10.27
May 27, 1965..	8.53	July 10.....	7.69	July 7.....	10.60
Nov. 15.....	9.28	Dec. 4.....	9.32	Dec. 1.....	12.35
Apr. 16, 1966..	8.88	Dec. 1, 1970..	9.81		
Nov. 8.....	9.45	Nov. 29, 1971..	9.84		

131-059-28DDD2 MP is top of 3-inch downspout 1.60 ft above lsd.

Feb. 22, 1972..	11.40	Mar. 5, 1974..	12.60	Dec. 8.....	12.70
May 25.....	11.60	June 4.....	13.00	Mar. 2, 1976..	13.00
Aug. 28.....	12.90	Sept. 3.....	13.50	June 1.....	12.90
Dec. 4.....	13.50	Dec. 10.....	13.40	July 6.....	13.00
Mar. 6, 1973..	11.70	Feb. 10, 1975..	13.10	Aug. 23.....	13.40
June 4.....	13.40	May 13.....	12.70	Nov. 22.....	13.80
Sept. 6.....	13.60	June 10.....	13.10		
Dec. 5.....	13.70	Sept. 8.....	12.60		

131-059-29DDD MP is top of 3-inch downspout 1.00 ft above lsd.

Feb. 22, 1972..	13.50	Mar. 5, 1974..	14.30	Dec. 8.....	13.40
May 25.....	12.60	June 4.....	13.70	Mar. 2, 1976..	13.40
Aug. 28.....	13.40	Sept. 3.....	14.10	June 1.....	13.70
Nov. 29.....	14.20	Dec. 10.....	14.10	July 6.....	13.90
Mar. 6, 1973..	13.80	Feb. 10, 1975..	14.50	Aug. 23.....	14.70
June 4.....	13.80	May 13.....	13.30	Nov. 22.....	15.10
Sept. 6.....	14.00	June 10.....	13.70		
Dec. 5.....	13.90	Sept. 8.....	13.00		

131-059-33ADD1 MP is top of 3-inch downspout 1.60 ft above lsd.

Feb. 22, 1972..	10.10	Mar. 5, 1974..	11.10	Dec. 8.....	9.50
May 25.....	8.40	June 4.....	10.40	Mar. 2, 1976..	9.70
Aug. 28.....	9.40	Sept. 3.....	11.20	June 1.....	9.40
Dec. 4.....	10.10	Dec. 10.....	11.30	July 6.....	9.90
Mar. 6, 1973..	10.10	Feb. 10, 1975..	11.20	Aug. 23.....	10.70
June 4.....	10.20	May 13.....	10.10	Nov. 22.....	11.50
Sept. 6.....	11.10	June 10.....	10.30		
Dec. 5.....	11.20	Sept. 8.....	8.60		

131-059-33CCC2 MP is top of 3-inch downspout 1.40 ft above lsd.

Feb. 22, 1972..	7.00	Mar. 5, 1974..	7.40	Dec. 8.....	5.80
May 25.....	2.80	June 5.....	4.30	Mar. 2, 1976..	5.80
Aug. 28.....	6.10	Sept. 3.....	8.30	June 1.....	9.40
Dec. 5.....	7.50	Dec. 10.....	8.60	July 6.....	9.90
Mar. 6, 1973..	6.10	Feb. 10, 1975..	9.00	Aug. 23.....	10.70
June 4.....	5.60	May 13.....	3.41	Nov. 22.....	9.10
Sept. 6.....	7.30	June 10.....	5.20		
Dec. 5.....	6.50	Sept. 8.....	4.00		

Depth to water, in feet below or (+) above land surface

131-059-33DDD2 MP is top of 3-inch downspout 1.60 ft above 1sd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	5.40	Mar. 5, 1974..	3.40	Dec. 8.....	4.00
May 25.....	.40	June 4.....	2.70	Mar. 2, 1976..	3.10
Aug. 28.....	4.30	Sept. 3.....	6.10	June 1.....	4.50
Dec. 5.....	5.40	Dec. 10.....	6.50	July 6.....	5.60
Mar. 6, 1973..	.10	Feb. 10, 1975..	6.70	Aug. 23.....	6.20
June 4.....	4.20	May 13.....	2.60	Nov. 22.....	7.10
Sept. 6.....	6.10	June 10.....	3.80		
Dec. 5.....	6.20	Sept. 8.....	3.10		

131-059-35BCC MP is top of 3-inch downspout 1.60 ft above 1sd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	14.60	Mar. 5, 1974..	15.40	Dec. 8.....	14.80
May 25.....	12.80	June 4.....	15.00	Mar. 2, 1976..	14.90
Aug. 28.....	14.80	Sept. 3.....	15.70	June 1.....	14.70
Nov. 29.....	15.80	Dec. 10.....	16.00	July 6.....	15.50
Mar. 6, 1973..	15.20	Feb. 10, 1975..	15.70	Aug. 23.....	16.40
June 4.....	15.20	May 13.....	14.60	Nov. 22.....	16.20
Sept. 6.....	16.00	June 10.....	14.90		
Dec. 5.....	15.50	Sept. 9.....	13.60		

131-059-35DDD4 MP is top of 3-inch downspout 2.00 ft above 1sd.

Date	Water level	Date	Water level	Date	Water level
Feb. 22, 1972..	5.90	Mar. 5, 1974..	7.70	Dec. 8.....	6.70
May 25.....	1.80	June 4.....	6.80	Mar. 2, 1976..	6.80
Aug. 28.....	5.10	Sept. 3.....	7.80	June 1.....	6.40
Nov. 29.....	5.60	Dec. 10.....	8.00	July 6.....	7.40
Mar. 6, 1973..	7.10	Feb. 10, 1975..	7.80	Aug. 24.....	8.50
June 4.....	7.00	May 13.....	5.90	Nov. 22.....	9.30
Sept. 6.....	7.70	June 10.....	7.10		
Dec. 5.....	7.70	Sept. 8.....	5.10		

131-059-36BBB MP is top of 1½-inch plastic pipe 2.00 ft above 1sd.

Date	Water level	Date	Water level	Date	Water level
Sept. 11, 1975..	35.22	Mar. 10, 1976..	34.80	July 7.....	34.52
Oct. 7.....	34.91	Apr. 13.....	34.53	Aug. 3.....	34.34
Nov. 6.....	34.72	May 4.....	34.41	Sept. 8.....	34.61
Dec. 2.....	34.90	June 10.....	34.49	Oct. 27.....	34.60

131-060-06BBB MP is top of 1½-inch plastic pipe 2.00 ft above 1sd.

Date	Water level	Date	Water level	Date	Water level
Jan. 23, 1975..	30.49	Oct. 7.....	29.70	June 10.....	29.71
May 12.....	30.06	Nov. 6.....	29.74	July 7.....	29.80
June 18.....	29.95	Dec. 2.....	29.75	Aug. 2.....	30.06
July 17.....	29.46	Mar. 9, 1976..	29.73	Sept. 8.....	30.27
Aug. 14.....	29.74	Apr. 12.....	29.50	Nov. 30.....	30.50
Sept. 11.....	29.63	May 3.....	29.46		

Depth to water, in feet below or (+) above land surface

131-060-08DDD2 MP is top of 1½-inch plastic pipe 1.70 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Nov. 30, 1976..	28.06				

131-061-29BBB2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Oct. 7, 1975..	9.08	Apr. 12.....	9.35	Aug. 2.....	9.77
Nov. 6.....	9.10	May 3.....	9.30	Sept. 8.....	9.93
Dec. 5.....	9.15	June 10.....	9.43		
Mar. 9, 1976..	9.18	July 7.....	9.58		

131-062-24DDD1 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Oct. 7, 1975..	16.47	Apr. 12, 1976..	15.32	July 7.....	15.55
Nov. 6.....	16.48	May 3.....	15.33	Aug. 2.....	15.75
Dec. 5.....	15.75	June 10.....	15.41	Sept. 8.....	15.85

131-062-24DDD2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Oct. 7, 1975..	17.91	Apr. 12.....	15.80	Aug. 2.....	16.35
Nov. 6.....	15.51	May 3.....	15.76	Sept. 8.....	16.53
Dec. 5.....	15.70	June 10.....	15.96	Nov. 30.....	16.72
Mar. 9, 1976..	15.71	July 7.....	16.12		

131-062-26AAA2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Oct. 7, 1975..	12.87	Apr. 12.....	12.88	Aug. 2.....	13.52
Nov. 6.....	12.70	May 3.....	12.86	Sept. 8.....	13.70
Dec. 5.....	12.84	June 10.....	13.10		
Mar. 9, 1976..	12.76	July 7.....	13.24		

132-059-03CCC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Nov. 20, 1975..	+12.50	Apr. 13.....	+12.10	July 7.....	+11.50
Dec. 4.....	+12.50	May 4.....	+13.00	Aug. 3.....	+10.70
Mar. 9, 1976..	+12.40	June 10.....	+13.00	Sept. 8.....	+8.50

132-060-12AAA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan. 23, 1975..	20.59	Oct. 6.....	17.09	June 10.....	17.48
May 12.....	19.34	Nov. 5.....	17.52	July 7.....	18.05
June 18.....	17.08	Dec. 4.....	17.40	Aug. 2.....	18.77
July 18.....	13.02	Mar. 9, 1976..	18.41	Sept. 8.....	19.49
Aug. 14.....	15.54	Apr. 13.....	17.97		
Sept. 11.....	17.10	May 4.....	17.59		

Depth to water, in feet below or (+) above land surface

132-061-15DAA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 23, 1975..	14.21	Oct. 7.....	12.86	June 10.....	12.63
May 12.....	12.64	Nov. 6.....	12.74	July 7.....	13.08
June 18.....	12.90	Dec. 2.....	14.85	Aug. 2.....	13.62
July 17.....	11.92	Mar. 9, 1976..	12.51	Sept. 8.....	14.04
Aug. 14.....	12.81	Apr. 12.....	11.82		
Sept. 11.....	12.49	May 3.....	11.73		

132-061-29BBB2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Nov. 7, 1975..	25.17	Apr. 12.....	25.03	July 7.....	25.36
Dec. 2.....	25.10	May 3.....	25.00	Aug. 2.....	25.65
Mar. 9, 1976..	24.90	June 10.....	25.23	Sept. 8.....	25.79

132-062-23DDD MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan. 22, 1975..	36.64	Oct. 7.....	36.03	June 10.....	35.71
May 12.....	36.50	Nov. 7.....	35.96	July 7.....	35.90
June 18.....	36.49	Dec. 2.....	35.85	Aug. 2.....	36.20
July 17.....	36.32	Mar. 9, 1976..	35.63	Sept. 8.....	36.37
Aug. 14.....	36.50	Apr. 12.....	35.64	Nov. 30.....	36.35
Sept. 12.....	36.30	May 3.....	35.57		

132-063-22CCC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan. 22, 1975..	+14.00	May 5.....	+15.00	Aug. 5.....	+12.00
Nov. 20.....	+14.00	June 11.....	+14.80	Sept. 10.....	+11.80
Apr. 15, 1976..	+15.50	July 8.....	+14.20		

132-064-23CCC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan. 22, 1975..	8.96	Oct. 6.....	5.89	June 11.....	5.92
May 12.....	4.41	Nov. 7.....	6.18	July 8.....	6.17
June 18.....	4.80	Dec. 5.....	6.35	Aug. 5.....	7.17
July 17.....	3.32	Mar. 11, 1976..	6.23	Sept. 10.....	8.21
Aug. 14.....	5.06	Apr. 15.....	4.91		
Sept. 12.....	5.40	May 5.....	4.75		

132-065-36ABB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Mar. 11, 1976..	6.22	June 11.....	11.69	Sept. 10.....	12.33
Apr. 5.....	11.50	July 8.....	11.77	Nov. 30.....	12.57
May 5.....	11.56	Aug. 5.....	12.06		

Depth to water, in feet below or (+) above land surface

133-059-15CCC2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Oct. 6, 1975..	32.73	Apr. 13.....	32.26	Aug. 3.....	32.82
Nov. 5.....	32.70	May 4.....	32.20	Sept. 8.....	32.91
Dec. 2.....	32.68	June 10.....	32.45	Dec. 3.....	32.86
Mar. 9, 1976..	32.27	July 7.....	32.63		

133-059-32BBB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Oct. 7, 1975..	25.72	Apr. 13.....	25.39	Aug. 3.....	26.02
Nov. 5.....	25.70	May 4.....	25.34	Sept. 8.....	26.32
Dec. 4.....	25.56	June 10.....	25.53	Dec. 3.....	26.55
Mar. 9, 1976..	25.38	July 7.....	25.70		

133-060-01DDD MP is top of 1½-inch plastic pipe 1.40 ft above lsd.

Dec. 3, 1976..	56.91
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133-060-08DDD MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 23, 1975..	22.28	Oct. 7.....	19.55	June 10.....	20.41
May 14.....	22.33	Nov. 3.....	19.71	July 7.....	20.72
June 18.....	22.24	Dec. 2.....	18.82	Aug. 3.....	20.99
July 17.....	20.03	Mar. 9, 1976..	20.08	Sept. 8.....	21.42
Aug. 13.....	19.64	Apr. 13.....	20.07		
Sept. 11.....	19.64	May 4.....	20.11		

133-060-15CCC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 23, 1975..	8.48	Oct. 7.....	6.41	June 10.....	7.58
May 14.....	8.25	Nov. 3.....	6.47	July 7.....	7.99
June 18.....	8.38	Dec. 2.....	6.54	Aug. 3.....	9.30
July 17.....	6.08	Mar. 9, 1976..	6.59	Sept. 8.....	10.04
Aug. 13.....	6.74	Apr. 13.....	6.43		
Sept. 11.....	6.47	May 4.....	6.43		

Depth to water, in feet below or (+) above land surface

133-060-16DAA MP is top of 6-inch plastic pipe 1.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Nov. 3, 1975..	16.34	May 15.....	16.62	Aug. 20.....	19.71
Nov. 7.....	16.34	May 20.....	16.89	Aug. 25.....	19.89
Dec. 2.....	16.42	May 25.....	17.00	Aug. 31.....	20.02
Jan. 3, 1976..	16.58	May 31.....	17.13	Sept. 5.....	19.97
Jan. 13.....	16.58	June 5.....	17.31	Sept. 8.....	19.90
Mar. 9.....	16.51	June 10.....	17.49	Sept. 10.....	19.92
Mar. 10.....	16.52	June 15.....	17.56	Sept. 15.....	19.90
Mar. 15.....	16.56	June 20.....	17.49	Sept. 20.....	19.86
Mar. 20.....	16.45	June 25.....	17.68	Sept. 25.....	19.80
Mar. 25.....	16.41	June 30.....	17.78	Sept. 30.....	19.74
Mar. 31.....	16.44	July 5.....	17.94	Oct. 5.....	19.71
Apr. 5.....	16.43	July 7.....	17.97	Oct. 10.....	19.69
Apr. 10.....	16.43	July 10.....	18.21	Oct. 15.....	19.65
Apr. 13.....	16.37	July 15.....	18.42	Oct. 20.....	19.64
Apr. 15.....	16.37	July 20.....	18.66	Oct. 25.....	19.63
Apr. 20.....	16.41	July 25.....	18.86	Oct. 31.....	19.61
Apr. 25.....	16.42	July 31.....	19.11	Nov. 4.....	19.58
Apr. 30.....	16.40	Aug. 3.....	19.18	Nov. 5.....	19.59
May 4.....	16.36	Aug. 5.....	19.32	Dec. 3.....	19.53
May 5.....	16.41	Aug. 10.....	19.32		
May 10.....	16.60	Aug. 15.....	19.57		

133-060-17ADA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan. 23, 1975..	15.23	Oct. 6.....	12.71	June 10.....	13.68
May 14.....	15.25	Nov. 3.....	12.88	July 7.....	14.01
June 18.....	15.21	Dec. 2.....	12.39	Aug. 3.....	14.27
July 17.....	12.54	Mar. 9, 1976..	13.16	Sept. 8.....	14.77
Aug. 13.....	12.83	Apr. 13.....	13.14		
Sept. 11.....	12.77	May 4.....	13.19		

133-060-28AAA1 MP is top of 1½-inch plastic pipe 2.80 ft above lsd.

Jan. 23, 1975..	15.28	July 17.....	11.40	Destroyed	
May 14.....	14.21	Aug. 13.....	12.36		
June 18.....	13.90	Sept. 11.....	12.92		

133-060-36DDD MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Nov. 5, 1975..	36.22	Apr. 13.....	35.89	July 7.....	36.15
Dec. 4.....	36.06	May 4.....	35.80	Aug. 3.....	36.57
Mar. 9, 1976..	35.88	June 10.....	36.01	Sept. 8.....	36.94

133-061-03BBB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan. 23, 1975..	16.81	Oct. 6.....	15.43	June 10.....	15.25
May 14.....	15.59	Nov. 5.....	15.43	July 6.....	15.53
June 18.....	15.58	Dec. 2.....	15.53	Aug. 2.....	15.94
July 17.....	14.79	Mar. 8, 1976..	15.20	Sept. 8.....	16.37
Aug. 13.....	15.41	Apr. 12.....	14.74	Dec. 3.....	16.60
Sept. 10.....	15.63	May 3.....	14.65		

Depth to water, in feet below or (+) above land surface

133-061-06AAA3 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 23, 1975..	46.30	Oct. 6.....	45.63	June 10.....	45.63
May 14.....	46.01	Nov. 5.....	45.64	July 6.....	45.72
June 18.....	45.86	Dec. 2.....	45.67	Aug. 2.....	46.00
July 17.....	45.56	Mar. 8, 1976..	45.60	Sept. 8.....	46.10
Aug. 13.....	45.76	Apr. 12.....	45.43		
Sept. 10.....	45.73	May 3.....	45.47		

133-061-20CCC2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Nov. 7, 1975..	43.02	Apr. 12.....	42.87	July 6.....	43.32
Dec. 2.....	42.19	May 3.....	42.87	Aug. 2.....	43.65
Mar. 9, 1976..	42.86	June 10.....	43.17	Sept. 8.....	43.87

133-061-28BAB2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Nov. 7, 1975..	35.82	Apr. 12.....	36.57	July 6.....	37.23
Dec. 2.....	36.35	May 3.....	36.65	Aug. 2.....	37.60
Mar. 9, 1976..	36.55	June 10.....	37.04	Sept. 8.....	37.82

133-061-30BBB1 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Nov. 7, 1975..	48.28	May 3.....	48.19	Sept. 8.....	48.74
Dec. 2.....	48.10	June 10.....	48.33	Dec. 3.....	48.72
Mar. 9, 1976..	47.50	July 6.....	48.41		
Apr. 12.....	48.19	Aug. 2.....	48.65		

133-061-30BBB2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Nov. 7, 1975..	47.16	May 3.....	47.04	Sept. 8.....	47.88
Dec. 2.....	47.22	June 10.....	47.30	Dec. 3.....	47.97
Mar. 9, 1976..	47.03	July 6.....	47.41		
Apr. 12.....	47.06	Aug. 2.....	47.73		

133-062-02AAA2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 14, 1975..	32.51	Oct. 6.....	32.40	May 3.....	32.19
June 18.....	32.34	Nov. 5.....	32.36	June 10.....	32.37
July 17.....	32.24	Dec. 2.....	32.45	July 6.....	32.41
Aug. 13.....	32.42	Mar. 8, 1976..	32.18	Aug. 2.....	32.69
Sept. 10.....	32.39	Apr. 12.....	32.19	Sept. 8.....	32.82

133-062-22DDD2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Mar. 8, 1976..	69.55	June 10.....	69.29	Sept. 8.....	69.50
Apr. 12.....	69.25	July 6.....	69.23		
May 3.....	69.19	Aug. 2.....	69.39		

Depth to water, in feet below or (+) above land surface

133-062-24CCB1 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Nov. 7, 1975..	56.20	May 3.....	56.18	Aug. 2.....	56.59
Mar. 9, 1976..	56.09	June 10.....	56.30	Sept. 8.....	56.68
Apr. 12.....	56.16	July 6.....	56.37		

133-062-24CCB2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Nov. 7, 1975..	54.83	May 3.....	54.76	Aug. 2.....	55.38
Mar. 9, 1976..	54.75	June 10.....	55.00	Sept. 8.....	55.49
Apr. 12.....	54.77	July 6.....	55.09		

133-064-03BC MP is top of 6-inch steel pipe 9.00 ft below ground level.

Date	Water level	Date	Water level	Date	Water level
May 11, 1964..	21.93	Feb. 28, 1968..	22.67	Apr. 3, 1972..	19.86
Oct. 14.....	22.89	July 12.....	21.63	Jan. 5, 1973..	20.31
Nov. 15, 1965..	21.79	Feb. 9, 1969..	21.01	Jan. 30.....	21.75
Apr. 26, 1966..	21.52	July 11.....	20.06	Jan. 12, 1976..	20.98
Nov. 8.....	21.85	Dec. 4.....	20.69	July 6.....	21.34
July 13, 1967..	23.00	Dec. 2, 1970..	20.55		

133-066-23DDD MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 22, 1975..	53.82	Sept. 10.....	53.26	May 3.....	53.28
May 12.....	52.98	Oct. 6.....	53.37	June 8.....	53.65
June 18.....	52.85	Nov. 7.....	53.42	July 6.....	53.63
July 15.....	52.97	Dec. 1.....	53.39	Aug. 5.....	53.91
Aug. 13.....	53.33	Apr. 15, 1976..	53.23	Sept. 10.....	54.10

134-059-31CCC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 23, 1975..	32.56	Sept. 11.....	31.90	Apr. 13.....	31.14
May 14.....	32.28	Oct. 7.....	31.62	May 4.....	31.08
June 18.....	32.26	Nov. 3.....	31.57	June 10.....	31.37
July 17.....	31.67	Dec. 2.....	31.58	July 7.....	31.50
Aug. 13.....	32.04	Mar. 9, 1976..	31.24	Dec. 3.....	33.00

134-060-26BBB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Dec. 2, 1976.. 65.47

134-060-32DDD MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
June 18, 1975..	57.29	Nov. 3.....	56.87	June 10.....	56.50
July 17.....	57.83	Dec. 2.....	57.00	July 7.....	56.63
Aug. 13.....	57.09	Mar. 9, 1976..	56.41	Aug. 3.....	56.89
Sept. 11.....	57.12	Apr. 13.....	56.37	Sept. 8.....	57.07
Oct. 7.....	56.90	May 4.....	56.32		

Depth to water, in feet below or (+) above land surface

134-060-35CCC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 14, 1975..	48.52	Nov. 3.....	47.98	July 7.....	47.77
June 18.....	48.62	Dec. 2.....	47.89	Aug. 3.....	48.01
July 17.....	48.05	Mar. 9, 1976..	47.51	Sept. 8.....	48.19
Aug. 13.....	48.29	Apr. 13.....	47.49	Dec. 3.....	48.64
Sept. 11.....	48.31	May 4.....	47.42		
Oct. 7.....	47.97	June 10.....	47.68		

134-061-16DDD2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Nov. 4, 1975..	11.48	May 3.....	13.03	Aug. 2.....	13.97
Mar. 8, 1976..	13.01	June 10.....	13.30	Sept. 7.....	14.77
Apr. 12.....	13.00	July 6.....	13.46		

134-061-21DAA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Nov. 4, 1975..	12.10	June 10.....	13.09	Sept. 7.....	15.29
Apr. 12, 1976..	12.44	July 6.....	13.44		
May 3.....	12.50	Aug. 2.....	14.66		

134-061-26CCC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Nov. 4, 1975..	43.28	Apr. 12.....	44.75	Sept. 7.....	46.65
Mar. 8, 1976..	43.50	May 3.....	44.51		

134-062-03DDD MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Mar. 8, 1976..	101.66	June 8.....	101.09	Sept. 7.....	101.47
Apr. 12.....	101.44	July 6.....	101.21		
May 3.....	101.13	Aug. 2.....	101.46		

134-062-33CBB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Nov. 5, 1975..	89.04	Apr. 12.....	88.91	July 6.....	89.11
Dec. 2.....	88.82	May 3.....	88.91	Aug. 2.....	89.46
Mar. 8, 1976..	88.77	June 10.....	89.01	Sept. 8.....	89.49

134-064-09BAB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

June 17, 1975..	0.93	Nov. 7.....	2.84	June 11.....	2.62
July 15.....	1.14	Dec. 5.....	3.01	July 6.....	2.51
Aug. 13.....	2.03	Mar. 11, 1976..	2.43	Aug. 5.....	3.75
Sept. 10.....	2.35	Apr. 15.....	.98	Sept. 7.....	4.67
Oct. 6.....	2.80	May 3.....	.85	Dec. 3.....	5.15

Depth to water, in feet below or (+) above land surface

134-064-09BBB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
June 17, 1975..	5.24	Nov. 7.....	7.25	June 11.....	7.44
July 15.....	5.50	Dec. 5.....	7.46	July 6.....	7.53
Aug. 13.....	6.70	Mar. 11, 1976..	7.08	Aug. 5.....	8.58
Sept. 10.....	7.03	Apr. 15.....	6.11	Sept. 7.....	9.46
Oct. 6.....	7.30	May 3.....	6.01	Dec. 3.....	10.91

134-064-15BCC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
June 17, 1975..	3.10	Nov. 7.....	3.90	June 11.....	5.53
July 15.....	3.22	Dec. 5.....	3.97	July 6.....	6.35
Aug. 12.....	4.80	Mar. 11, 1976..	3.91	Aug. 5.....	8.27
Sept. 10.....	4.50	Apr. 15.....	3.66	Sept. 7.....	8.32
Oct. 6.....	3.99	May 3.....	3.65	Dec. 3.....	6.93

134-064-16ABB1 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
June 17, 1975..	10.40	Oct. 6.....	11.60	July 6.....	12.98
July 15.....	10.63	Nov. 7.....	11.70	Aug. 5.....	14.03
Aug. 13.....	11.55	May 11, 1976..	11.47	Sept. 7.....	14.74
Sept. 10.....	11.63	June 11.....	12.40	Dec. 3.....	14.70

134-064-16DAA2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
June 17, 1975..	6.14	Nov. 7.....	6.96	June 11.....	8.87
July 15.....	6.53	Dec. 5.....	7.07	July 6.....	9.69
Aug. 12.....	7.80	Mar. 11, 1976..	7.04	Aug. 5.....	11.77
Sept. 10.....	7.62	Apr. 15.....	6.80	Sept. 7.....	11.53
Oct. 6.....	7.05	May 3.....	6.80	Dec. 3.....	10.00

134-064-22ABA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
June 17, 1975..	1.70	Nov. 7.....	3.79	June 11.....	3.57
July 15.....	.87	Dec. 5.....	4.01	July 6.....	3.60
Aug. 12.....	2.73	Mar. 11, 1976..	3.58	Aug. 5.....	4.60
Sept. 10.....	3.26	Apr. 15.....	1.85	Sept. 7.....	5.25
Oct. 6.....	3.61	May 3.....	1.92	Dec. 3.....	5.47

Depth to water, in feet below or (+) above land surface

134-064-22BBB2 MP is top of 4-inch plastic pipe 1.00 ft above 1sd.					
Date	Water level	Date	Water level	Date	Water level
Mar. 20, 1975..	11.26	Oct. 10.....	10.40	May 3.....	10.06
Mar. 25.....	11.28	Oct. 15.....	10.42	May 5.....	10.12
Mar. 31.....	11.29	Oct. 20.....	10.43	May 10.....	10.10
Apr. 5.....	11.31	Oct. 25.....	10.45	May 15.....	10.15
Apr. 10.....	11.30	Oct. 31.....	10.47	May 20.....	10.31
Apr. 15.....	11.29	Nov. 5.....	10.51	May 25.....	10.43
Apr. 20.....	10.98	Nov. 7.....	10.50	May 31.....	10.58
Apr. 25.....	10.41	Nov. 10.....	10.53	June 5.....	10.73
Apr. 30.....	10.04	Nov. 15.....	10.55	June 10.....	10.81
May 5.....	9.71	Nov. 20.....	10.57	June 11.....	10.78
May 10.....	9.50	Nov. 25.....	10.58	June 15.....	10.92
May 14.....	9.34	Nov. 30.....	10.60	June 20.....	10.97
May 15.....	9.35	Dec. 5.....	10.63	June 25.....	11.01
May 20.....	9.23	Dec. 10.....	10.63	June 30.....	11.04
May 25.....	9.19	Dec. 15.....	10.66	July 5.....	11.11
May 31.....	9.15	Dec. 20.....	10.67	July 6.....	11.07
June 5.....	9.17	Dec. 25.....	10.68	July 10.....	11.23
June 10.....	9.22	Dec. 31.....	10.73	July 15.....	11.39
June 15.....	9.25	Jan. 5, 1976..	10.74	July 20.....	11.46
June 17.....	10.89	Jan. 10.....	10.75	July 25.....	11.61
June 20.....	9.30	Jan. 13.....	10.68	July 31.....	11.70
June 25.....	9.29	Jan. 15.....	10.78	Aug. 5.....	11.86
June 30.....	9.22	Jan. 20.....	10.79	Aug. 7.....	12.35
July 5.....	8.91	Jan. 25.....	10.79	Sept. 10.....	12.36
July 10.....	8.76	Jan. 31.....	10.83	Sept. 15.....	12.40
July 15.....	8.77	Feb. 5.....	10.85	Sept. 20.....	12.50
July 20.....	8.89	Feb. 10.....	10.84	Sept. 25.....	12.50
July 25.....	9.03	Feb. 15.....	10.85	Sept. 30.....	12.55
July 31.....	9.28	Feb. 20.....	10.80	Oct. 5.....	12.56
Aug. 5.....	9.45	Feb. 25.....	10.76	Oct. 10.....	12.56
Aug. 10.....	9.61	Feb. 29.....	10.63	Oct. 15.....	12.56
Aug. 12.....	9.51	Mar. 5.....	10.60	Oct. 20.....	12.58
Aug. 15.....	9.76	Mar. 10.....	10.59	Oct. 29.....	12.58
Aug. 20.....	9.87	Mar. 11.....	10.44	Oct. 31.....	12.58
Aug. 25.....	9.96	Mar. 15.....	10.59	Nov. 4.....	12.59
Aug. 31.....	10.04	Mar. 20.....	10.24	Nov. 5.....	12.59
Aug. 5.....	10.09	Mar. 25.....	10.26	Dec. 3.....	12.61
Sept. 10.....	10.21	Mar. 31.....	10.23	Dec. 5.....	12.62
Sept. 15.....	10.24	Apr. 5.....	10.23	Dec. 10.....	12.62
Sept. 20.....	10.27	Apr. 10.....	10.22	Dec. 15.....	12.62
Sept. 25.....	10.29	Apr. 15.....	10.20	Dec. 20.....	12.63
Sept. 30.....	10.33	Apr. 20.....	10.19	Dec. 25.....	12.63
Oct. 5.....	10.36	Apr. 25.....	10.18	Dec. 31.....	12.64
Oct. 6.....	10.36	Apr. 30.....	10.15		

134-064-22BCB MP is top of 1½-inch plastic pipe 2.00 ft above 1sd.					
Date	Water level	Date	Water level	Date	Water level
June 17, 1975..	2.16	Dec. 5.....	3.89	July 6.....	3.68
July 15.....	1.58	Mar. 11, 1976..	3.67	Aug. 5.....	4.19
Sept. 10.....	3.28	Apr. 15.....	3.15	Sept. 7.....	4.74
Oct. 6.....	3.61	May 3.....	2.97	Dec. 3.....	5.27
Nov. 7.....	3.79	June 11.....	3.51		

Depth to water, in feet below or (+) above land surface

134-064-24DC MP is top of 2-inch steel pipe +1.08 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 11, 1964..	+1.00	July 13, 1967..	+1.08	Dec. 2, 1970..	+0.76
Oct. 14.....	+0.75	Nov. 5, 1968..	+1.08	Nov. 29, 1971..	+1.06
Nov. 15, 1965..	+1.08	Jan. 10, 1969..	+1.08	Jan. 5, 1973..	+1.08
Apr. 26, 1966..	+0.58	July 11.....	+0.95	Nov. 30.....	+1.03
Nov. 8.....	+0.81	Dec. 4.....	+1.08	Jan. 13, 1976..	+1.08

134-065-31CCC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
May 12, 1975..	61.73	Oct. 6.....	62.15	May 3.....	62.11
June 17.....	61.64	Nov. 7.....	62.20	June 8.....	62.29
July 15.....	61.86	Dec. 1.....	62.18	July 6.....	62.32
Aug. 13.....	62.13	Mar. 25, 1976..	62.03	Aug. 5.....	62.59
Sept. 10.....	62.12	Apr. 15.....	62.07	Sept. 10.....	62.74

135-061-28CCB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Nov. 4, 1975..	23.05	May 3.....	23.16	Aug. 2.....	24.53
Mar. 8, 1976..	23.33	June 10.....	23.90	Sept. 7.....	25.15
Apr. 12.....	23.13	July 6.....	24.10		

135-062-07DDD MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 22, 1975..	131.31	Oct. 6.....	129.55	June 8.....	130.21
May 12.....	130.81	Nov. 5.....	129.64	July 6.....	130.56
June 17.....	130.11	Dec. 5.....	130.16	Aug. 2.....	130.88
July 15.....	129.46	Mar. 8, 1976..	130.65	Sept. 7.....	130.75
Aug. 13.....	129.79	Apr. 12.....	130.12		
Sept. 10.....	129.50	May 3.....	130.45		

135-062-11DDD2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 22, 1975..	28.30	Oct. 6.....	26.96	June 8.....	27.67
May 12.....	27.07	Nov. 4.....	27.11	July 6.....	27.81
June 17.....	26.87	Dec. 5.....	27.40	Aug. 2.....	28.02
July 15.....	25.94	Mar. 8, 1976..	27.59	Sept. 7.....	28.15
Aug. 13.....	26.53	Apr. 12.....	27.39		
Sept. 10.....	26.81	May 3.....	27.31		

135-062-16AAA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 22, 1975..	137.87	Oct. 6.....	136.68	June 8.....	137.44
May 12.....	137.21	Nov. 4.....	136.93	July 6.....	137.62
June 17.....	136.95	Dec. 5.....	137.10	Aug. 2.....	137.92
July 15.....	136.17	Mar. 8, 1976..	137.40	Sept. 7.....	137.85
Aug. 13.....	136.58	Apr. 12.....	137.44	Dec. 3.....	138.05
Sept. 10.....	136.55	May 3.....	137.48		

Depth to water, in feet below or (+) above land surface

135-063-13AAA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water Level	Date	Water Level	Date	Water Level
Apr. 12, 1976..	132.57	June 8.....	132.41	Aug. 2.....	133.13
May 3.....	132.76	July 6.....	132.73	Sept. 7.....	132.92

135-063-20DDD MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

July 6, 1976..	98.47	Aug. 2.....	98.94	Sept. 7.....	98.64
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135-063-23CCC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan. 22, 1975..	87.62	Oct. 6.....	87.71	June 8.....	87.72
May 12.....	87.63	Nov. 4.....	87.66	July 6.....	88.00
June 17.....	87.38	Dec. 5.....	87.70	Aug. 2.....	88.10
July 15.....	87.59	Mar. 8, 1976..	87.65	Sept. 7.....	87.94
Aug. 13.....	87.71	Apr. 12.....	87.70		
Sept. 10.....	87.66	May 3.....	87.71		

135-063-36BBB1 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

July 6, 1976..	80.52	Aug. 2.....	80.74	Sept. 7.....	80.49
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135-063-36BBB2 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

July 6, 1976..	81.35	Aug. 2.....	81.57	Sept. 7.....	81.33
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135-064-23CCD MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Mar. 11, 1976..	12.13	June 11.....	12.33	Sept. 7.....	12.89
Apr. 15.....	12.20	July 6.....	12.30	Dec. 3.....	13.83
May 3.....	12.21	Aug. 5.....	12.71		

136-062-03CCC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan. 22, 1975..	58.41	Oct. 6.....	57.39	June 8.....	56.18
May 12.....	58.11	Nov. 5.....	57.12	July 6.....	56.13
June 17.....	58.03	Dec. 5.....	54.88	Aug. 2.....	56.31
July 15.....	57.72	Mar. 8, 1976..	56.28	Sept. 7.....	56.22
Aug. 13.....	57.86	Apr. 12.....	56.25	Dec. 3.....	56.13
Sept. 10.....	57.64	May 3.....	56.18		

Depth to water, in feet below or (+) above land surface

136-062-06DDD MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 22, 1975..	67.68	Oct. 6.....	66.56	May 3.....	65.43
May 12.....	67.32	Nov. 5.....	66.31	June 8.....	65.42
June 17.....	67.31	Dec. 5.....	65.90	July 6.....	65.40
July 15.....	66.94	Mar. 8, 1976..	65.52	Aug. 2.....	65.54
Sept. 12.....	66.74	Apr. 12.....	65.49	Sept. 7.....	65.42

136-063-01CCC MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 22, 1975..	146.64	Oct. 6.....	144.62	June 5.....	145.41
May 12.....	145.47	Nov. 5.....	144.85	July 6.....	145.64
June 17.....	145.04	Dec. 5.....	145.17	Aug. 2.....	146.03
July 15.....	144.49	Mar. 8, 1976..	145.40	Sept. 7.....	145.91
Aug. 13.....	144.77	Apr. 12.....	145.42		
Sept. 10.....	144.61	May 3.....	145.39		

136-063-08AAB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Mar. 8, 1976..	24.10	June 8.....	24.26	Sept. 7.....	25.79
Apr. 12.....	24.34	July 6.....	24.30		
May 3.....	24.22	Aug. 2.....	24.90		

136-063-10BBB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 22, 1975..	136.05	Oct. 6.....	133.29	June 8.....	135.10
May 12.....	134.89	Nov. 5.....	133.65	July 6.....	135.46
June 17.....	134.12	Dec. 5.....	134.60	Aug. 2.....	135.79
July 15.....	132.69	Mar. 8, 1976..	135.07	Sept. 7.....	134.83
Aug. 13.....	132.90	Apr. 12.....	135.00		
Sept. 10.....	133.09	May 3.....	134.97		

136-063-11BBB MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Apr. 12, 1976..	38.48	June 8.....	38.55	Aug. 2.....	39.10
May 3.....	38.40	July 6.....	38.83	Sept. 7.....	39.23

136-064-09CCC1 MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Date	Water level	Date	Water level	Date	Water level
Jan. 22, 1975..	79.20	Oct. 6.....	78.44	June 11.....	76.22
May 12.....	76.54	Nov. 11.....	77.75	July 6.....	77.77
June 17.....	76.07	Dec. 5.....	77.40	Aug. 2.....	80.56
July 15.....	75.82	Mar. 8, 1976..	75.94	Sept. 7.....	84.53
Aug. 13.....	77.70	Apr. 15.....	75.52	Dec. 3.....	83.15
Sept. 10.....	78.70	May 3.....	75.38		

Depth to water, in feet below or (+) above land surface

136-064-18AAA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Mar.	8, 1976..	35.40	June	11.....	36.68	Sept.	7.....	44.18
Apr.	15.....	36.22	July	6.....	37.70			
May	3.....	36.11	Aug.	2.....	40.38			

136-064-20AAA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan.	22, 1975..	8.14	Nov.	11.....	7.50	June	11.....	7.57
July	15.....	6.78	Dec.	5.....	7.62	July	6.....	7.63
Aug.	13.....	7.40	Mar.	18, 1976..	7.38	Aug.	2.....	7.98
Sept.	10.....	7.59	Apr.	15.....	7.50	Sept.	7.....	7.77
Oct.	6.....	7.48	May	3.....	7.51			

136-064-26AAA MP is top of 1½-inch plastic pipe 2.00 ft above lsd.

Jan.	22, 1975..	50.73	Oct.	6.....	50.28	June	11.....	48.55
May	12.....	49.30	Nov.	11.....	50.10	July	6.....	49.20
June	17.....	48.83	Dec.	5.....	49.94	Aug.	2.....	50.57
July	15.....	48.69	Mar.	8, 1976..	48.85	Sept.	7.....	51.79
Aug.	13.....	49.34	Apr.	15.....	48.51			
Sept.	10.....	50.09	May	3.....	48.40			

136-064-29AAA MP is top of 2-inch steel pipe 2.00 ft above lsd.

Dec.	3, 1976..	40.37
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TABLE 3.--Logs of wells and test holes

EXPLANATION

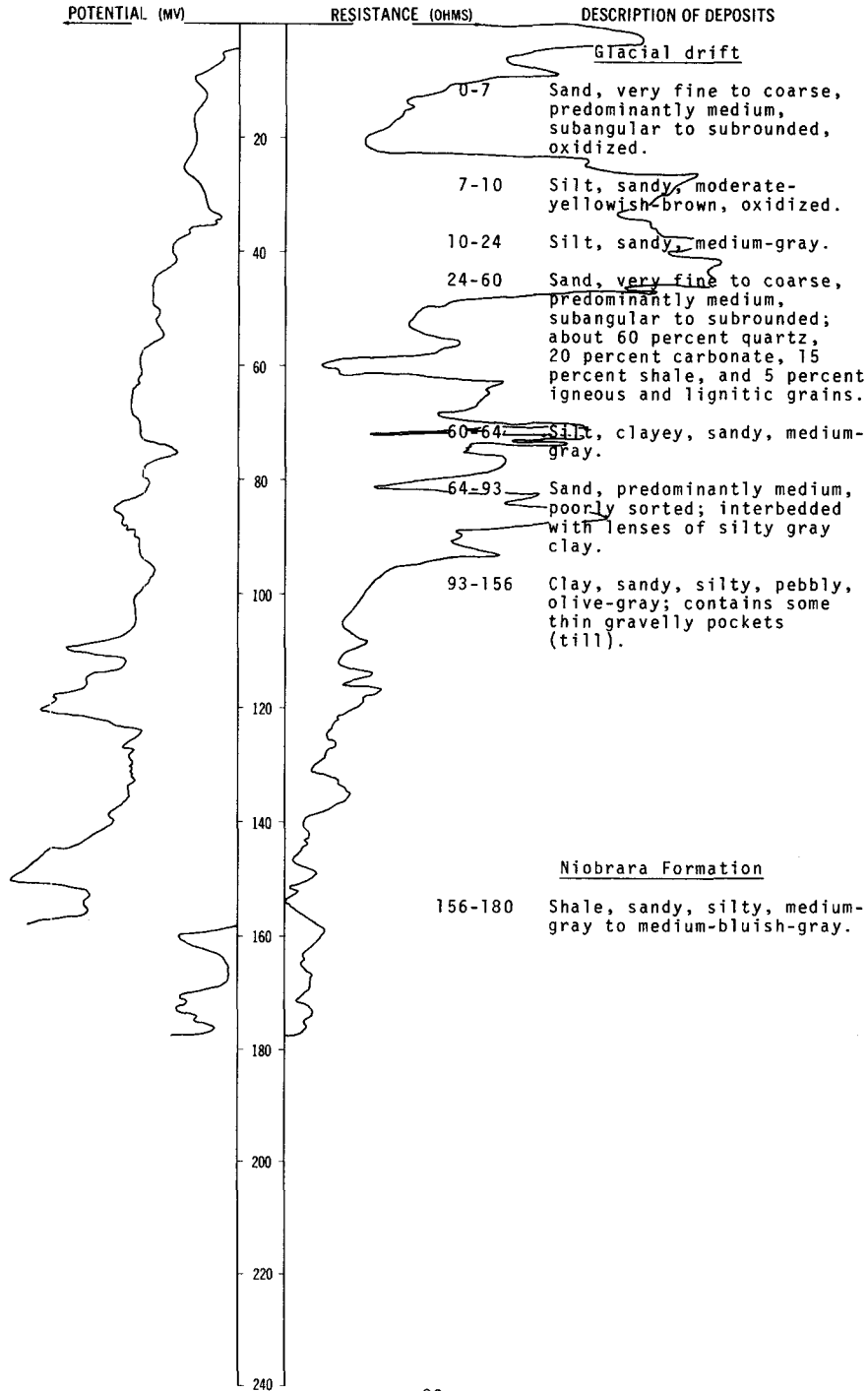
Potential given in millivolts (MV). Depths shown are in feet below
Resistance in ohms. land surface.
Electric logs are uncalibrated.

LOCATION: 129-059-01 DDD1

DATE DRILLED: 8/27/75

ALTITUDE: 1311
(FT. MSL)

DEPTH: 180
(FT)



129-059-02DAC
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/08/74

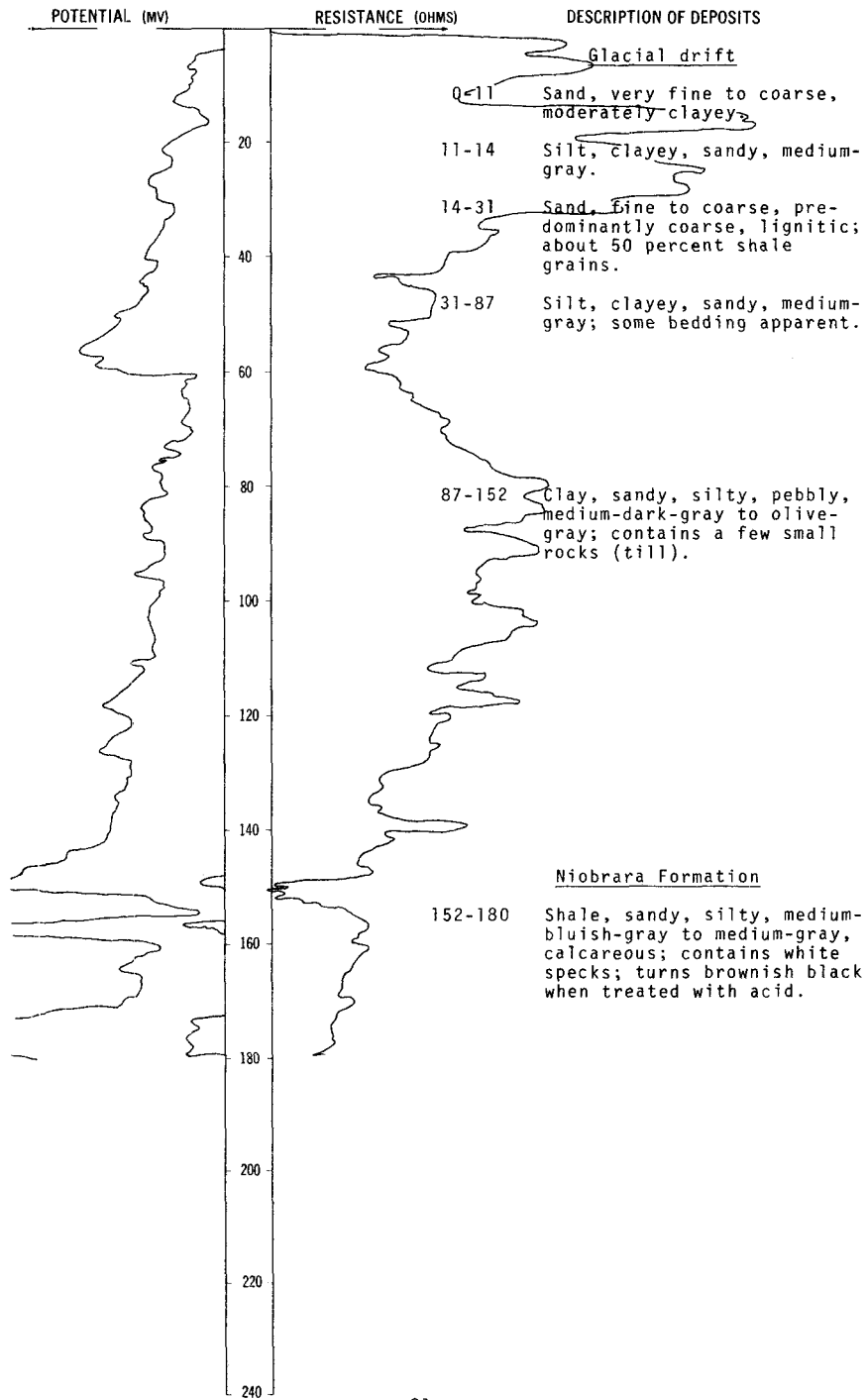
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	2	2
	Sand-----	43	45
	Till, gray-----	45	90
	Gravel-----	4	94
	Till, gray-----	76	170
Niobrara Formation(?):			
	Shale-----	10	180

LOCATION: 129-059-02DDD

DATE DRILLED: 8/29/75

ALTITUDE: 1310
(FT, MSL)

DEPTH: 180
(FT)



129-059-03BBB
USBR W-65

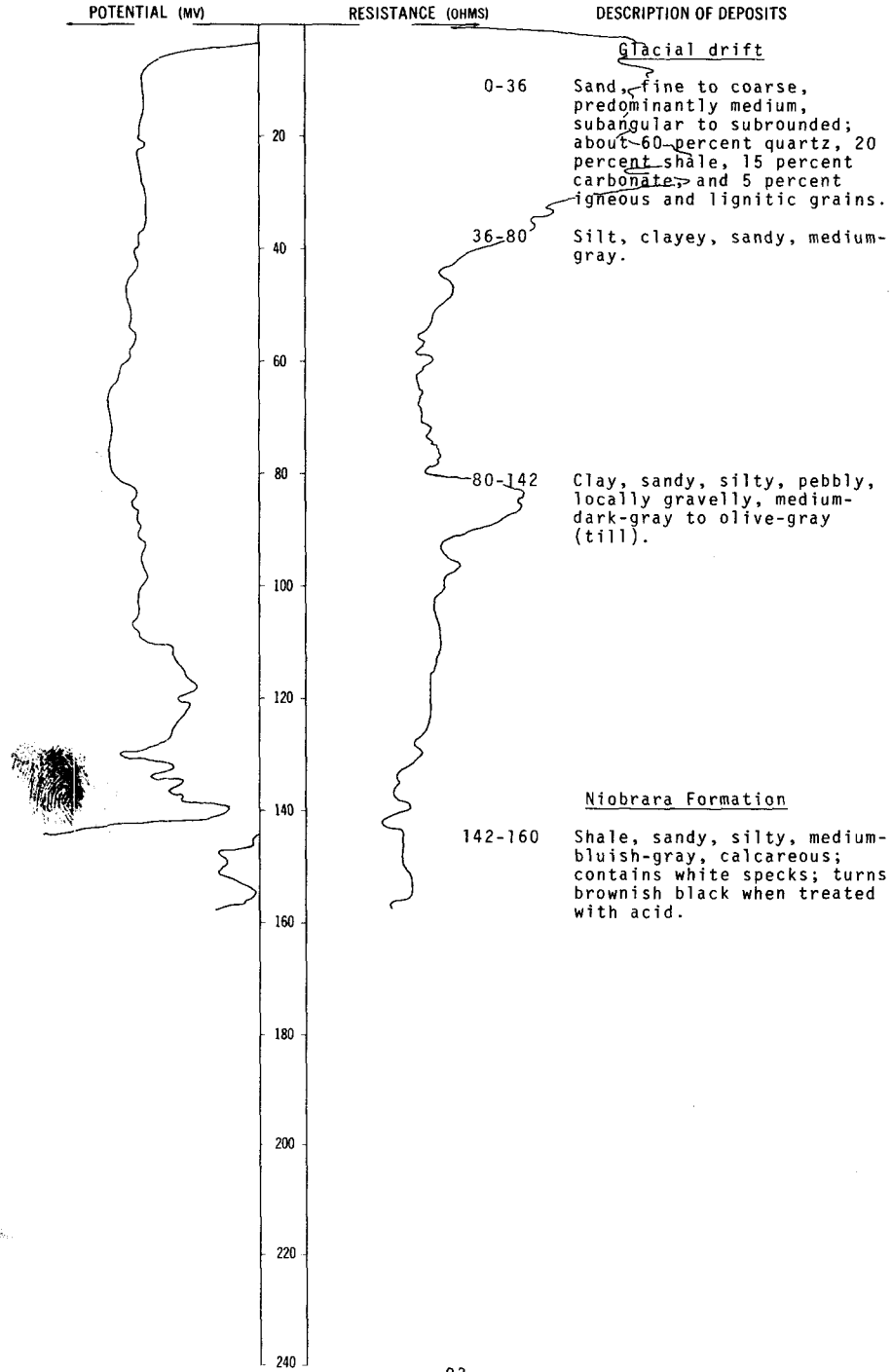
Altitude: 1309 feet

Date drilled: 7/01/66

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Loam, sandy-----	2	2
	Sand, fine-----	4	6
	Sand-----	5	11
	Loam, silty-----	4	15
	Sand-----	5	20

LOCATION: 129-059-03CCC
ALTITUDE: 1304
(FT, MSL)

DATE DRILLED: 8/28/75
DEPTH: 160
(FT)

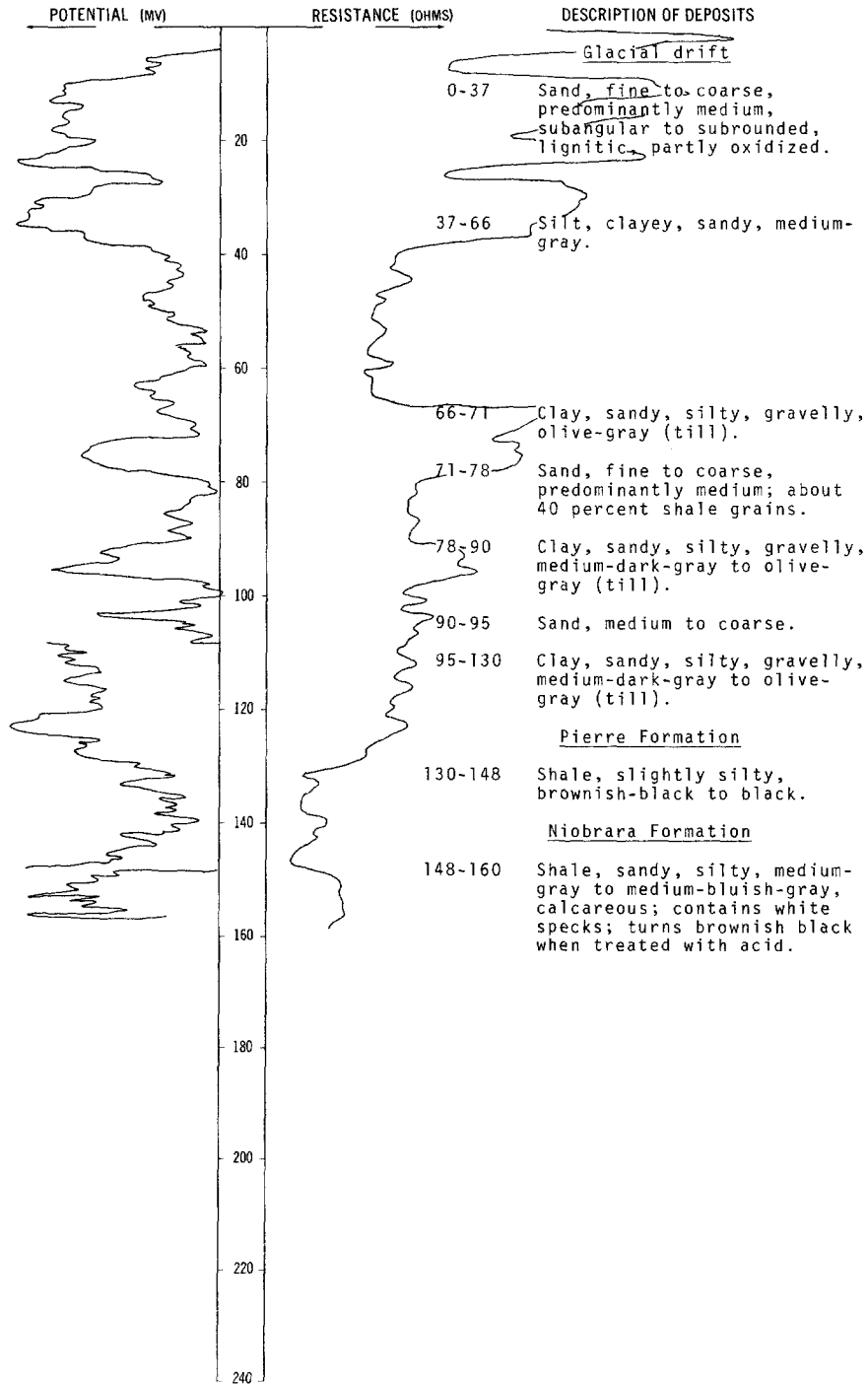


LOCATION: 129-059-04BBB1

DATE DRILLED: 8/28/75

ALTITUDE: 1305
(FT, MSL)

DEPTH: 160
(FT)



129-059-04DDD
USBR W-74

Altitude: 1303 feet Date drilled: 6/ /66

Geologic source	Material	Thickness (feet)	Depth (feet)
	Sand, fine-----	9	9
	Sand, fine, loamy-----	5	14
	Sand, fine-----	6	20

129-059-05CCC
USBR Oakes-10

Altitude: 1306 feet Date drilled: 1/16/51

Glacial drift:

Silt, organic, black-----	5	5
Sand, fine to medium, clayey, buff-----	10	15
Clay, silty, gray-----	15	30
Sand, medium, shale grains, gray-----	2	32
Gravel, fine to medium, sandy, clayey-----	8	40
Sand, fine to medium, shale grains, gray-----	5	45
Clay, sandy, gravelly, gray (till)-----	8	53

129-059-05DDD
USBR W-73

Altitude: 1304 feet Date drilled: 6/15/66

Loam, fine, sandy-----	2	2
Sand, fine, loamy-----	13	15
Sand-----	5	20

129-059-06CCC
USBR W-71

Altitude: 1297 feet Date drilled: 6/15/66

Loam, very fine, sandy-----	3	3
Loam-----	1	4
Loam, very fine, sandy-----	9	13
Sand, very fine, loamy-----	7	20

129-059-07DDD
USBR W-80

Altitude: 1302 feet Date drilled: 7/01/66

Loam, sandy-----	1	1
Loam, silty-----	1	2
Loam, very fine, sandy-----	8	10
Sand, very fine-----	5	15
Loam, silty-----	5	20

129-059-08BBB
 USBR W-72

Altitude:	1306 feet	Date drilled:	6/ /66
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Loam, fine, sandy-----	2	2
	Sand, very fine, loamy-----	5	7
	Sand, fine-----	6	13
	Loam, very fine, sandy-----	6	19
	Loam, silty-----	1	20

129-059-08DDD1
 USBR Oakes-11

Altitude:	1291 feet	Date drilled:	1/18/51
Glacial drift:			
	Silt, clayey, buff, iron-stained-----	5	5
	Silt, clayey, buff to gray-----	10	15
	Clay, silty, sandy, gray, soft-----	31	46
	Sand, medium, gray; gravel, fine-----	4	50
	Clay, gravelly; silt and sand lenses (till)-----	7	57

129-059-08DDD2
 USBR W-81

Altitude:	1304 feet	Date drilled:	7/01/66
	Loam, fine, sandy-----	1	1
	Sand, fine, loamy-----	9	10
	Sand, fine-----	5	15
	Loam, silty-----	5	20

129-059-09BCD
 (Log from Empire Irrigation & Drilling Co., Inc.)

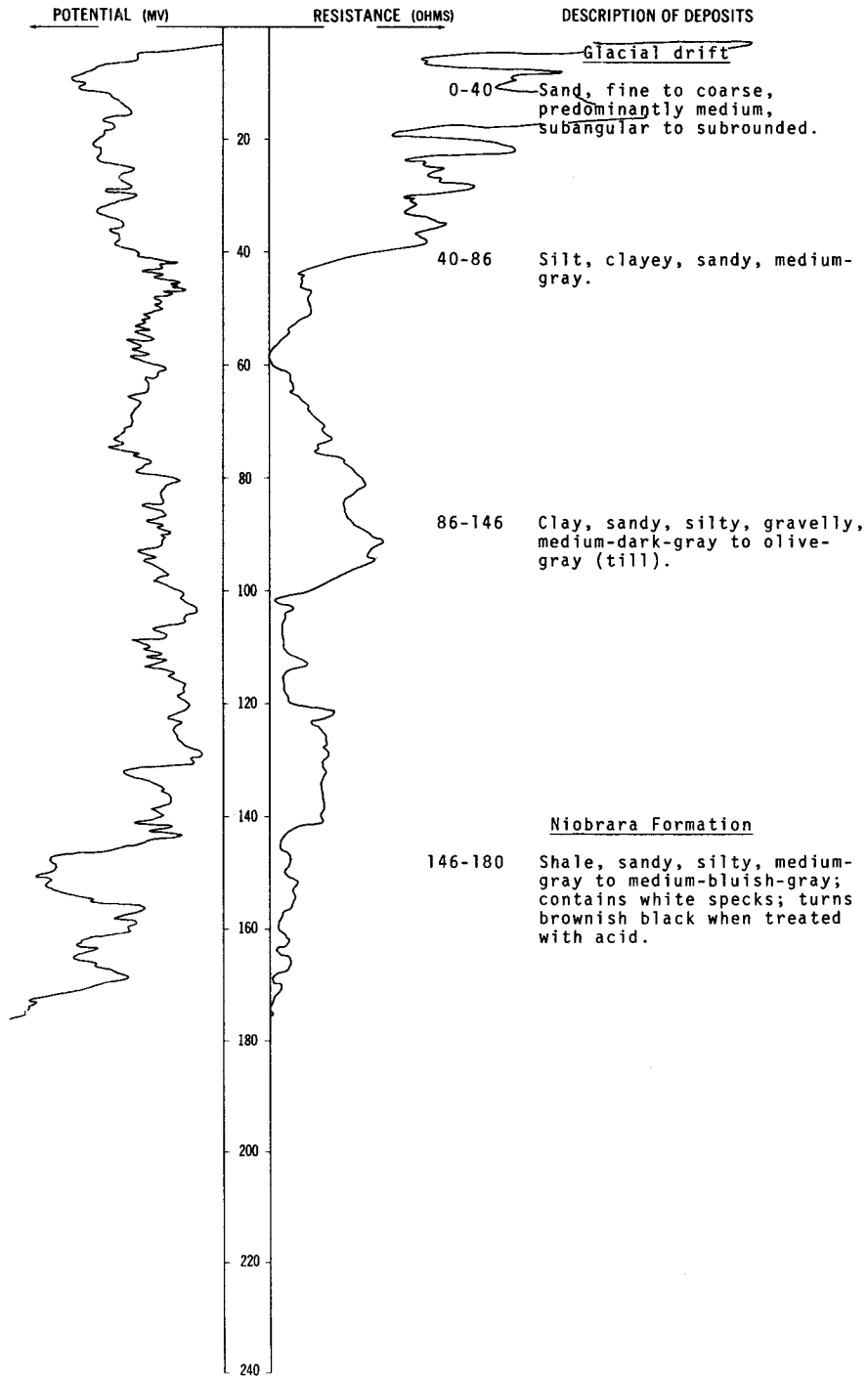
Altitude:	1304 feet	Date drilled:	4/03/74
Glacial drift:			
	Topsoil-----	2	2
	Clay, silty-----	16	18
	Sand, very fine-----	12	30
	Till, gray; with sand layers-----	115	145
Niobrara Formation(?):			
	Shale-----	5	150

LOCATION: 129-059-10AAA1

DATE DRILLED: 8/28/75

ALTITUDE: 1310
(FT, MSL)

DEPTH: 180
(FT)



129-059-11AAA
USBR W-76

Altitude: 1309 feet Date drilled: 6/05/66

Geologic source	Material	Thickness (feet)	Depth (feet)
	Loam, fine, sandy-----	2	2
	Sand, fine, loamy-----	8	10
	Clay, silty-----	5	15

129-059-13AAA
USBR W-112

Altitude: 1311 feet Date drilled: 2/01/67

	Sand, loamy-----	2	2
	Loam-----	6	8
	Loam, silty-----	3	11
	Loam-----	1	12
	Clay, silty-----	2	14
	Sand-----	6	20

129-059-13ADA
(Log from Green Circle Supply Co.)

Date drilled: 7/24/75

	Topsoil-----	.8	.8
	Sand, fine-grained, shale flecks-----	28.2	29
	Till, sandy, gray, soft, moist; lignite fragments-----	29	58
	Gravel; with occasional coarse sand lenses-----	57	115

129-059-13DBD1
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 11/05/74

Glacial drift:

	Topsoil-----	2	2
	Clay, sandy-----	4	6
	Sand, medium-----	34	40
	Sand and gravel-----	10	50
	Sand, medium to fine-----	30	80

129-059-13DBD2
(Log from Green Circle Supply Co.)

Date drilled: 7/21/75

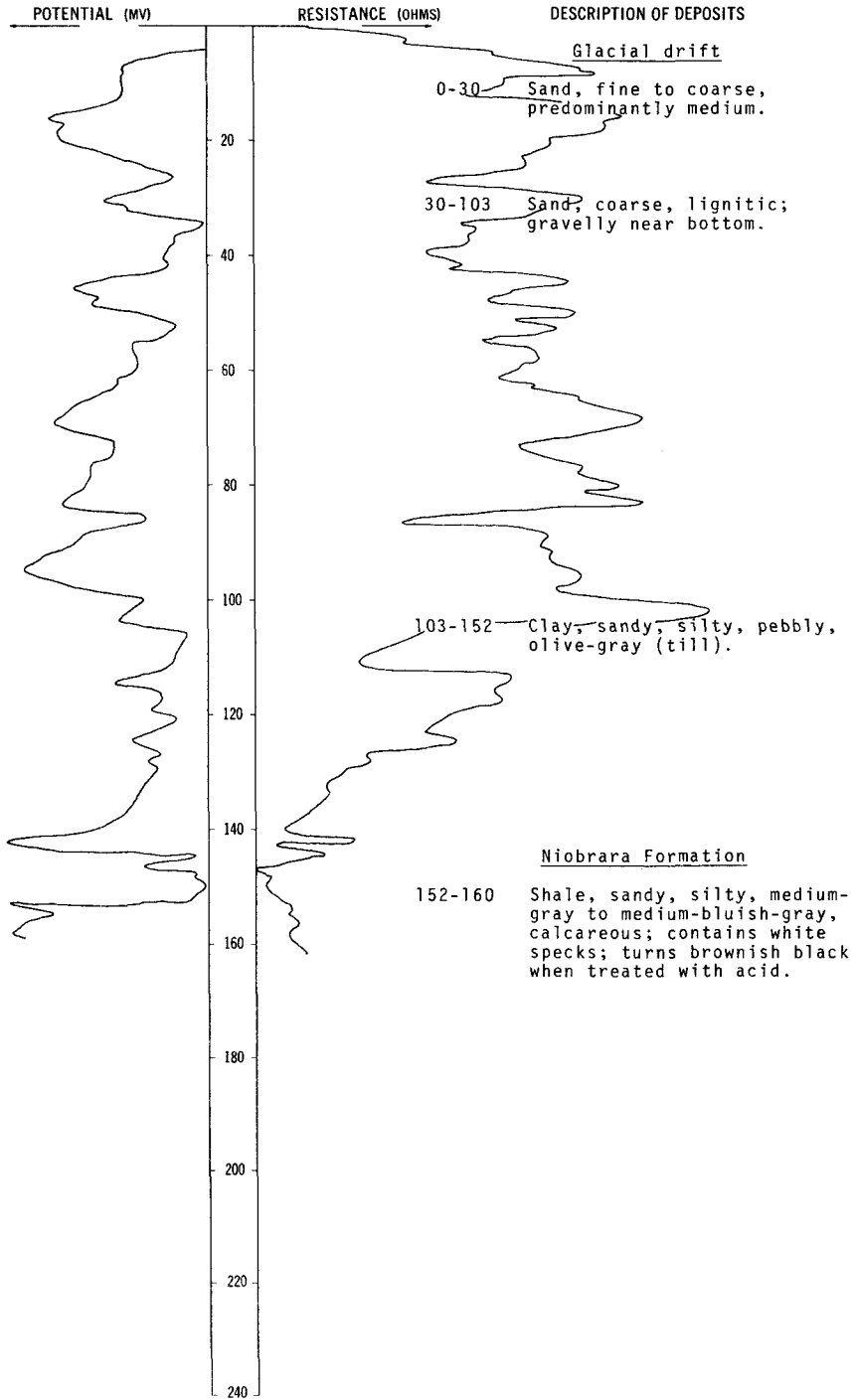
	Topsoil-----	.8	.8
	Sand, fine-grained; shale and lignite flecks-----	26.2	27
	Till, sandy, gray; with gravel scattered throughout-----	34	61
	Gravel, medium to coarse, some oxidized, good-----	15	76
	Gravel, medium to coarse; with lenses of medium to fine gray sand-----	33	109
	Gravel, coarse-----	16	125

LOCATION: 129-059-13DDD2

DATE DRILLED: 8/27/75

ALTITUDE: 1306
(FT, MSL)

DEPTH: 160
(FT)



129-059-14BBB
 USBR W-107

Altitude: 1304 feet	Date drilled: 2/01/67		
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Sand, loamy-----	5	5
	Loam, sandy-----	2	7
	Loam, silty-----	5	12
	Sand, fine-----	8	20

129-059-16CCC
 USBR W-85

Altitude: 1303 feet	Date drilled: 8/01/66		
	Loam, sandy-----	2	2
	Sand, loamy-----	11	13
	Clay, silty-----	7	20

129-059-18DDD1
 USBR Oakes-12

Altitude: 1307 feet	Date drilled: 1/31/51		
Glacial drift:			
	Silt, clayey, buff-----	10	10
	Sand, very fine, silty, clayey, iron-stained-----	7	17
	Sand, fine, silty, gray-----	13	30
	Clay, fine, sandy, silty, gray, slightly plastic-----	110	140
	Sand, fine, clayey, poorly sorted, brown-----	10	150
	Sand, medium, clayey; gravel, medium, clayey-----	5	155

129-059-19DDD
 USBR W-89

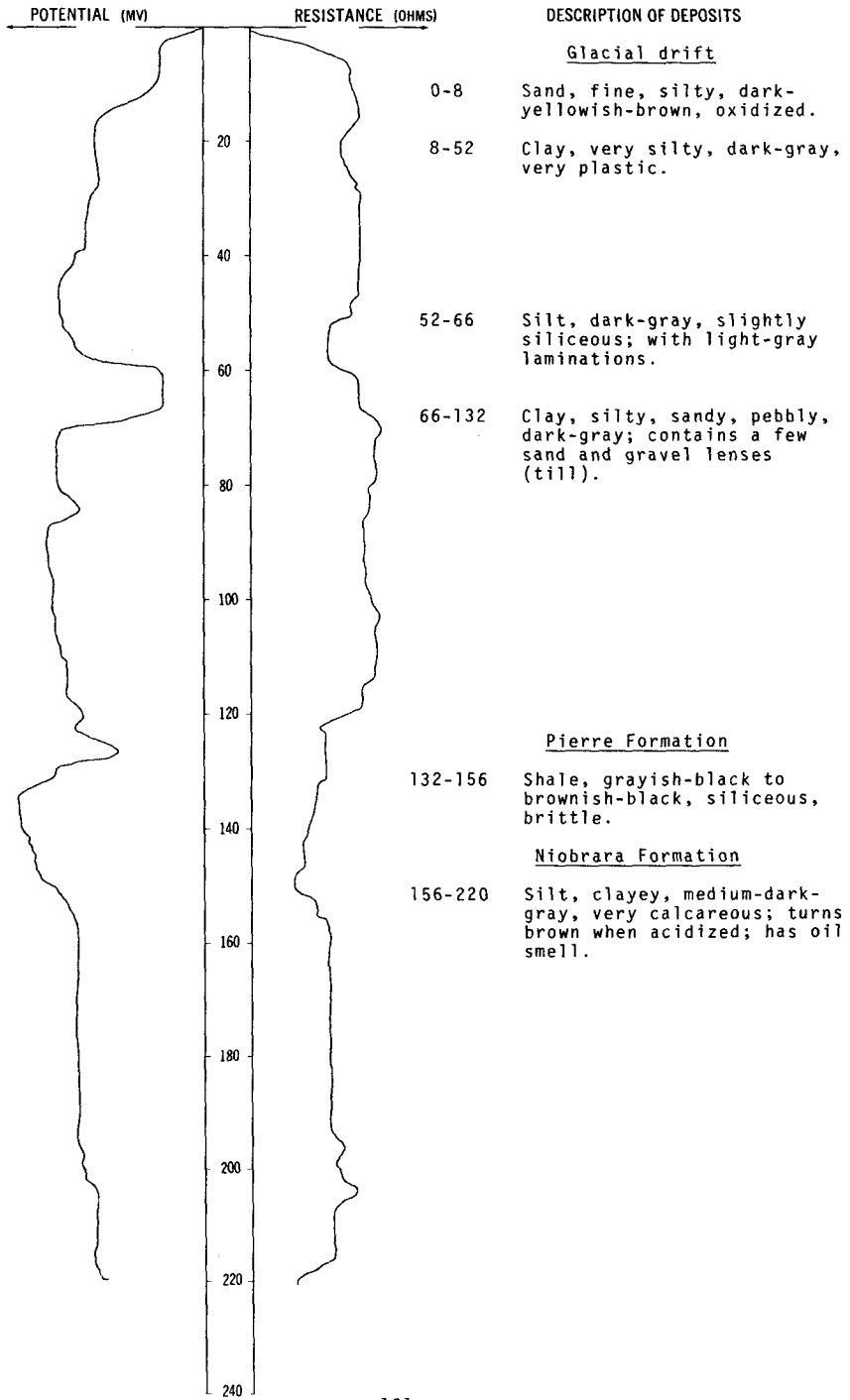
Altitude: 1304 feet	Date drilled: 6/15/66		
	Sand, loamy-----	3	3
	Sand, very fine, loamy-----	17	20

LOCATION: 129-059-20ABB

DATE DRILLED: 9/17/74

ALTITUDE: 1302
(FT. MSL)

DEPTH: 220
(FT)



129-059-22AAA
USBR W-108

Altitude: 1300 feet

Date drilled: 2/01/67

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Sand, loamy-----	4	4
	Sand, fine-----	3	7
	Loam, clayey-----	3	10
	Loam, silty-----	7	17
	Clay, silty-----	3	20

129-059-22DDD
USBR W-109

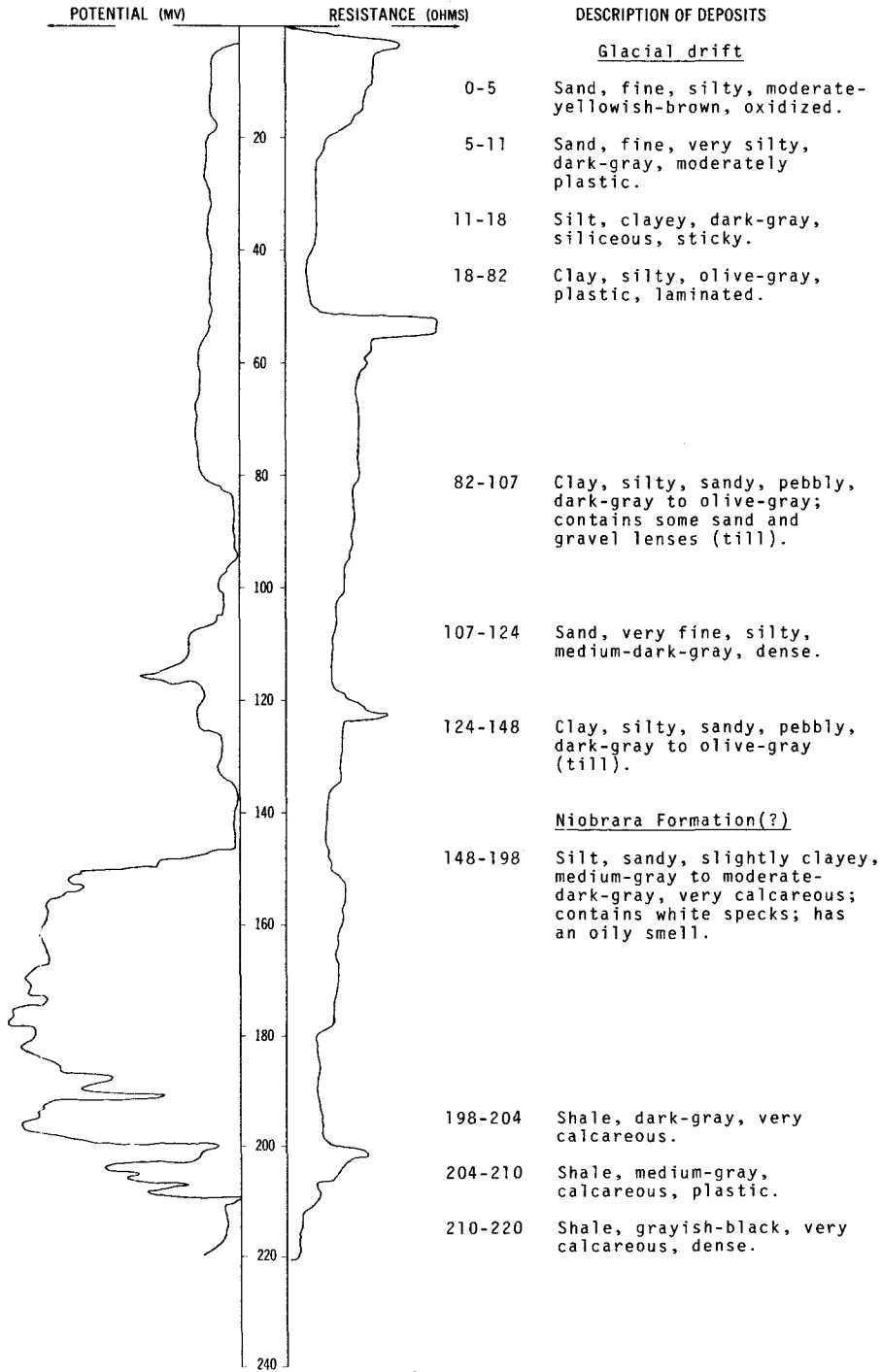
Altitude: 1295 feet

Date drilled: 2/01/67

	Loam-----	1	1
	Loam, clayey-----	4	5
	Loam, silty-----	6	11
	Clay, silty-----	4	15

LOCATION: 129-059-23888
 ALTITUDE: 1300
 (FT, MSL)

DATE DRILLED: 9/17/74
 DEPTH: 220
 (FT)



129-059-24DDD
USBR W-114

Altitude: 1308 feet Date drilled: 2/01/67

Geologic source	Material	Thickness (feet)	Depth (feet)
	Loam, sandy-----	2	2
	Sand, fine-----	12	14
	Sand-----	6	20

129-059-28AAA
USBR W-91

Altitude: 1295 feet Date drilled: 6/15/66

	Loam, silty-----	1	1
	Clay, silty-----	3	4
	Loam, silty-----	16	20

129-059-29AAA
USBR W-90

Altitude: 1306 feet Date drilled: 6/15/66

	Loam, fine, sandy-----	8	8
	Sand, very fine, loamy-----	12	20

129-059-29CCC1
USBR Oakes-13

Altitude: 1299 feet Date drilled: 2/07/51

Glacial drift:

	Silt, black, organic-----	3	3
	Sand, fine, silty, clayey, buff to gray-----	4	7
	Sand, fine, clayey, grayish-brown-----	11	18
	Sand, fine, silty, clayey-----	16	34
	Clay, silty, sandy, gray, slightly plastic-----	56	90
	Clay, gray, plastic, soft-----	10	100
	Sand, fine, grayish-brown-----	6	106
	Sand, fine, clayey, silty, grayish-brown-----	20	126

129-059-29DDD
 USBR W-95

Altitude:	1301 feet	Date drilled:	8/01/66
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Loam, silty-----	4	4
	Sand, fine, loamy-----	9	13
	Loam, silty-----	7	20

129-059-31DDD
 USBR W-100

Altitude:	1289 feet	Date drilled:	6/15/66
	Loam, fine, sandy-----	2	2
	Sand, fine-----	4	6
	Loam, silty-----	3	9
	Clay, silty-----	6	15

129-059-33CCC
 USBR W-101

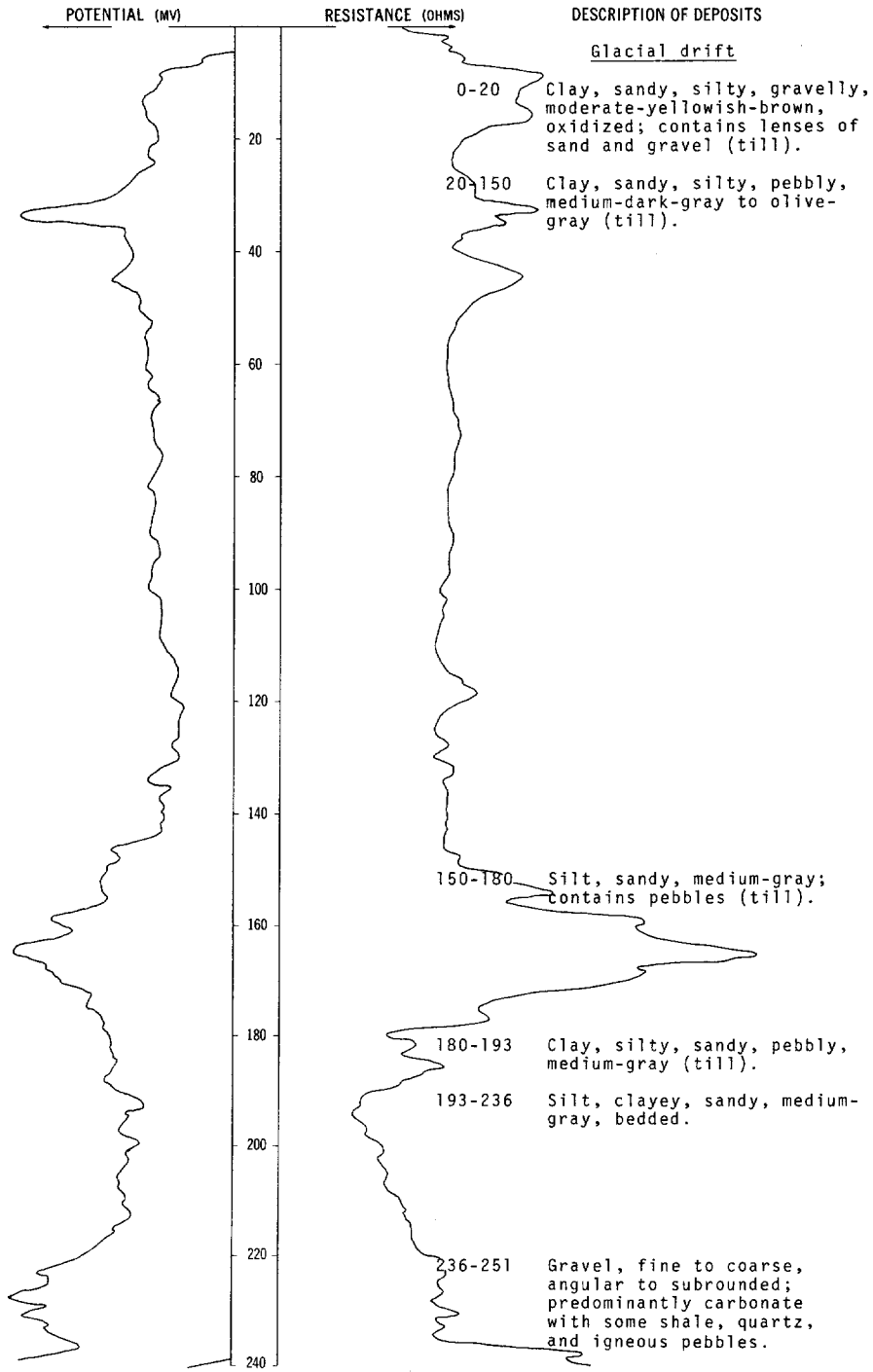
Altitude:	1293 feet	Date drilled:	6/12/66
	Loam, fine, sandy-----	4	4
	Loam-----	1	5
	Loam, silty-----	7	12
	Clay, silty-----	3	15
	Loam, silty-----	3	18
	Clay, silty-----	2	20

LOCATION: 129-060-06AAA

DATE DRILLED: 8/28/75

ALTITUDE: 1365
(FT, MSL)

DEPTH: 260
(FT)



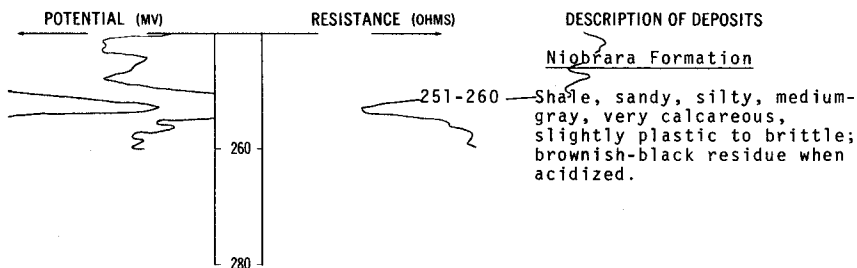
NDSWC 9436, Continued

LOCATION: 129-060-06AAA

DATE DRILLED: 8/28/75

ALTITUDE: 1365
(FT, MSL)

DEPTH: 260
(FT)



129-060-11DDD
USBR W-78

Altitude: 1302 feet

Date drilled: 6/10/66

Geologic source	Material	Thickness (feet)	Depth (feet)
	Loam, silty-----	2	2
	Loam, fine, sandy-----	2	4
	Sand, fine, loamy-----	6	10
	Loam (till)-----	3	13

129-060-14DDD
USBR W-82

Altitude: 1295 feet

Date drilled: 6/15/66

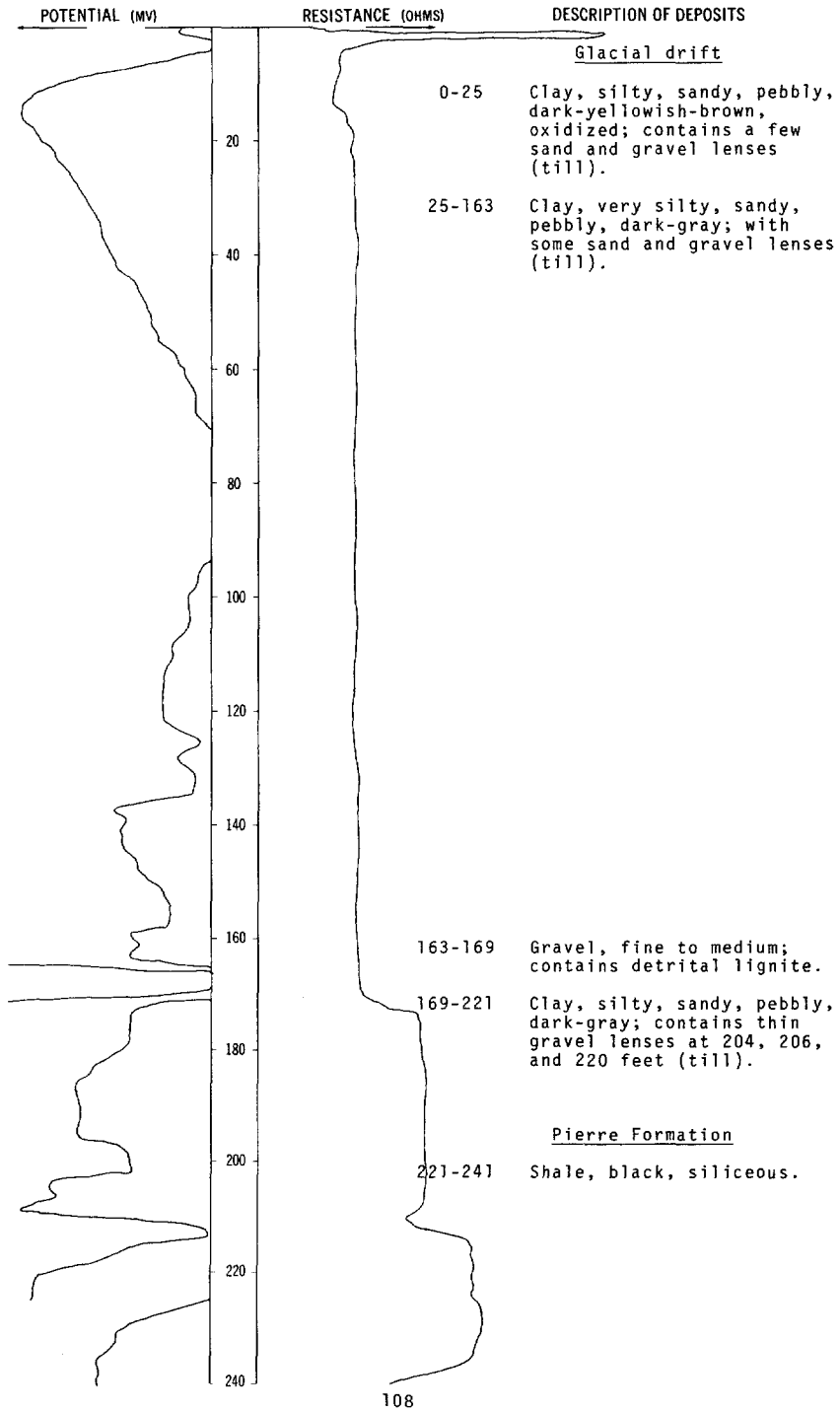
	Loam, silty-----	2	2
	Loam, sandy-----	2	4
	Loam, silty-----	1	5
	Sand, loamy-----	1	6
	Clay-----	2	8
	Sand-----	4	12
	Loam, sandy-----	4	16
	Till-----	4	20

LOCATION: 129-060-20BBB

DATE DRILLED: 9/18/74

ALTITUDE: 1369
(FT, MSL)

DEPTH: 260
(FT)



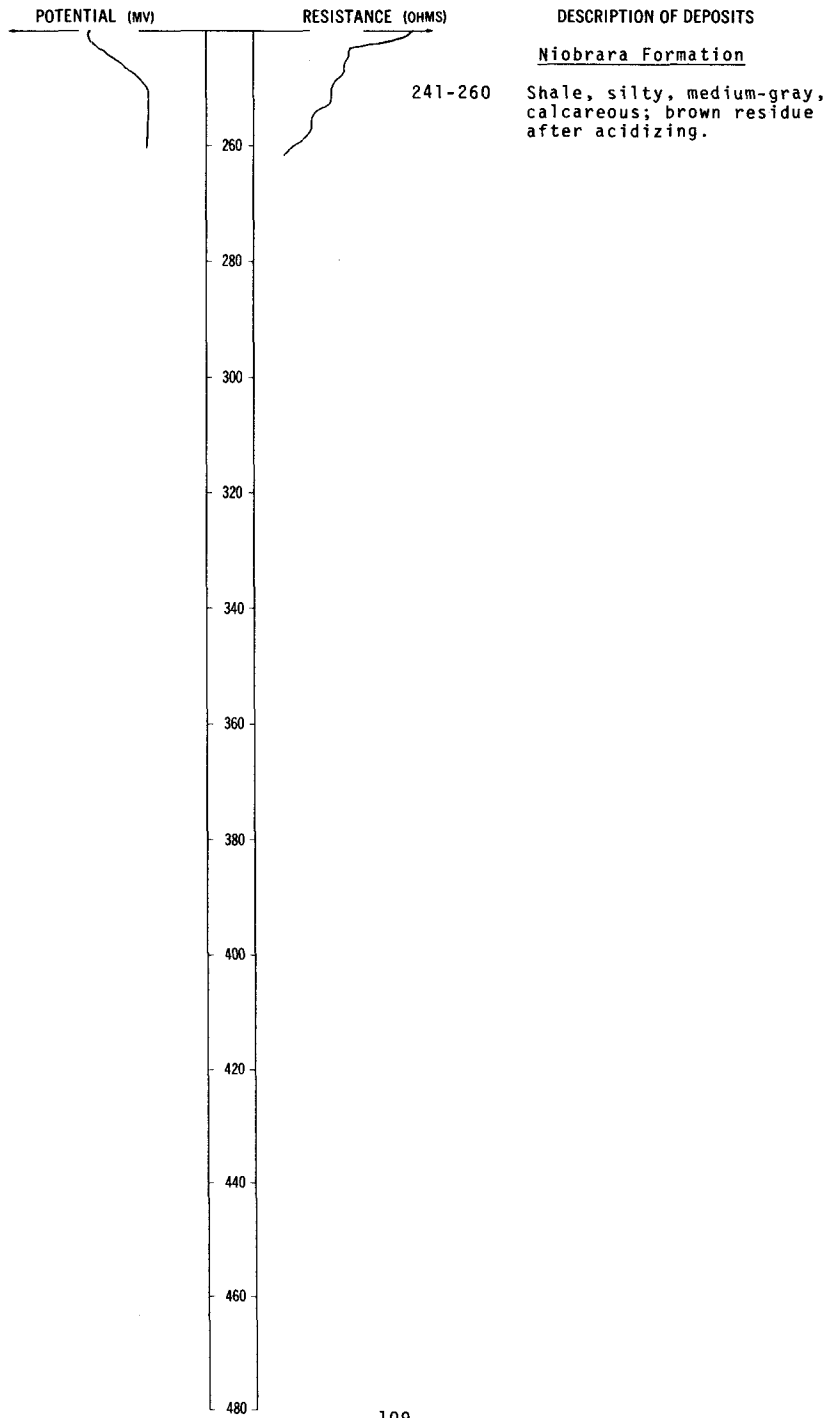
NDSWC 9113, Continued

LOCATION: 129-060-20BBB

DATE DRILLED: 9/18/74

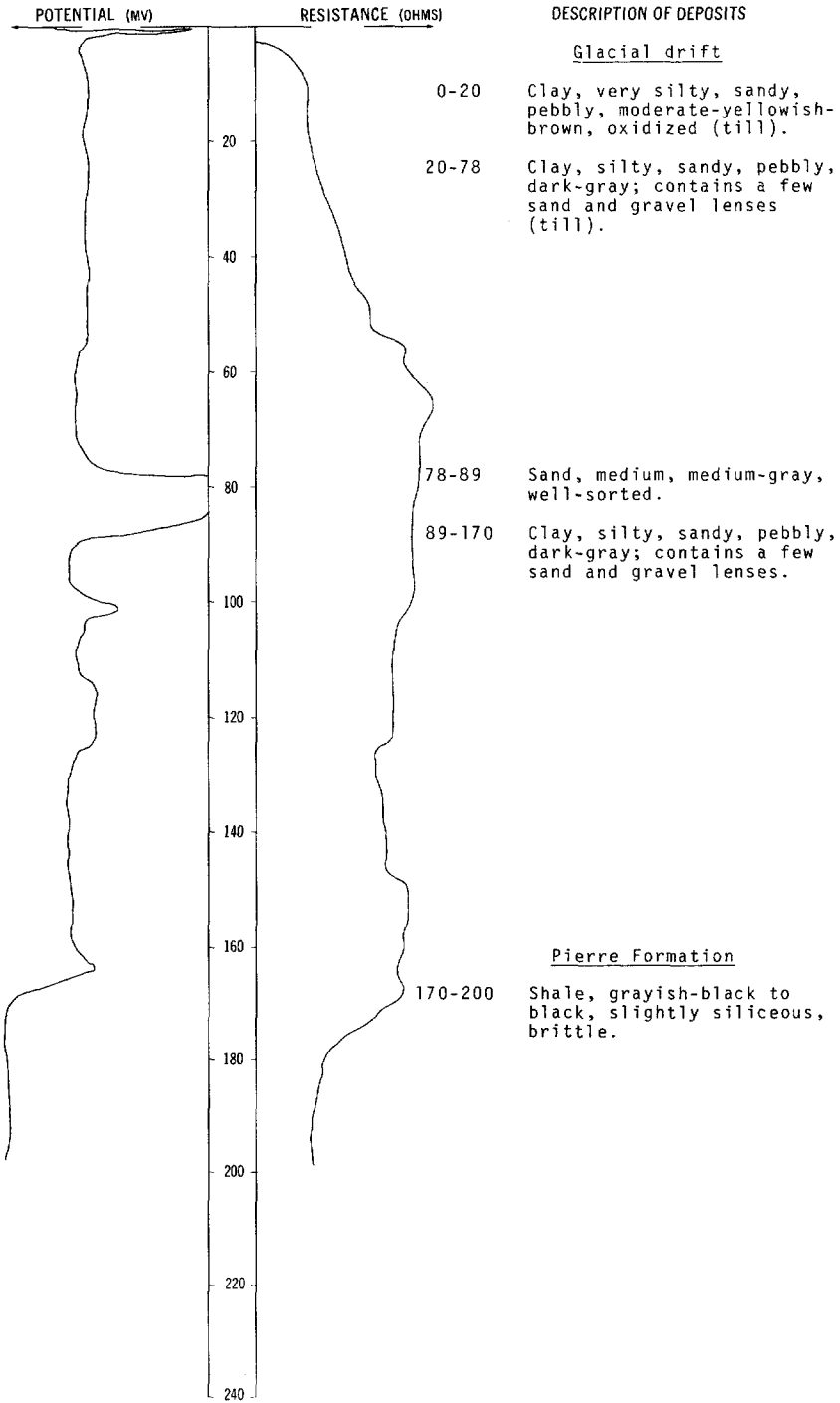
ALTITUDE: 1369
(FT, MSL)

DEPTH: 260
(FT)



LOCATION: 129-060-21AAA
 ALTITUDE: 1345
 (FT, MSL)

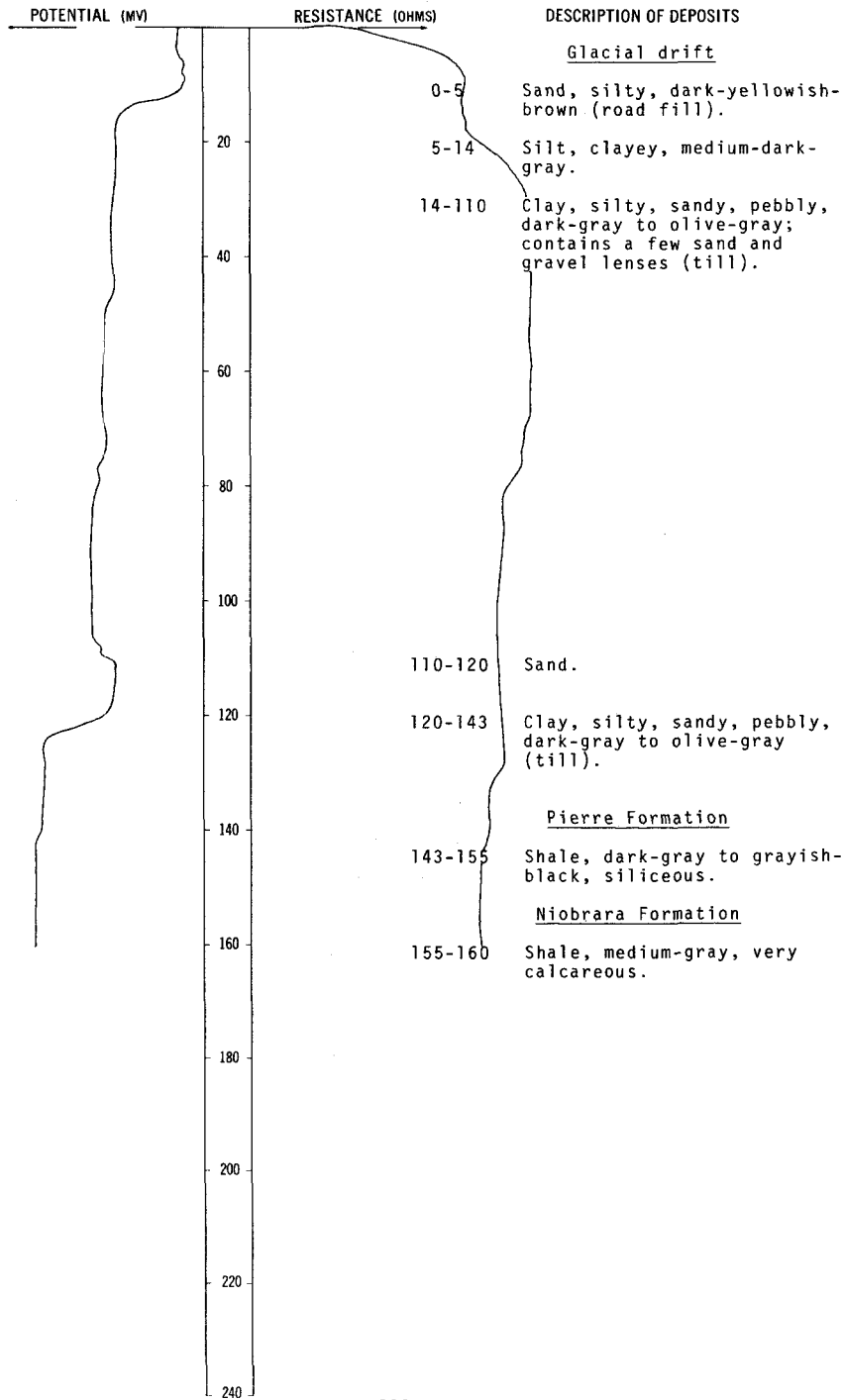
DATE DRILLED: 9/18/74
 DEPTH: 200
 (FT)



NDSWC 9111

LOCATION: 129-060-24BBB
 ALTITUDE: 1298
 (FT, MSL)

DATE DRILLED: 9/17/74
 DEPTH: 160
 (FT)



129-060-35AAA
USBR W-92

Altitude: 1301 feet Date drilled: 6/12/66

Geologic source	Material	Thickness (feet)	Depth (feet)
	Loam, sandy-----	5	5
	Loam, silty-----	8	13
	Sand, fine, loamy-----	3	16
	Loam, silty-----	4	20

129-060-35CCC
USBR W-97

Altitude: 1292 feet Date drilled: 6/10/66

	Loam, silty-----	5	5
	Clay, sandy-----	3	8
	Loam, sandy-----	5	13

129-060-36DDD
USBR W-99

Altitude: 1295 feet Date drilled: 6/12/66

	Loam-----	1	1
	Sand, loamy-----	1	2
	Loam, silty-----	8	10
	Clay-----	2	12
	Clay, silty-----	8	20

129-061-06CBB
Test hole 5635
(Log from Naplin, 1973)

Altitude: 1406 feet Date drilled: 9/ /70

Glacial drift:			
	Topsoil, silty, clayey, pebbly, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, cobbles, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	16	17
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	48	65
	Sand, occasional thin clay lenses, very fine to medium-grained (mostly fine-grained), subangular to rounded, moderately well sorted-----	41	106
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	74	180

129-061-08BBB
 Test hole 5651
 (Log from Naplin, 1973)

Altitude: 1420 feet Date drilled: 5/19/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, sandy, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, cobbles, boulders, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	18	19
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	2	21
	Gravel, clayey, fine to coarse, angular to subrounded, poorly sorted, oxidized-----	3	24
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, cohesive, slightly plastic, calcareous (till)-----	91	115
	Clay, very silty, sandy, olive-gray, occasional light-olive-gray laminations, cohesive, plastic, calcareous (glacio-fluvial sediment)-----	30	145
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	15	160

129-061-12BBC2
 (Log from Albrecht Well Work)

Altitude: 1370 feet Date drilled: 4/30/74

Glacial drift:			
	Topsoil, black-----	2	2
	Clay, silty, yellow-----	15	17
	Sand, light; water-----	4	21
	Sand, blue; much water-----	10	31

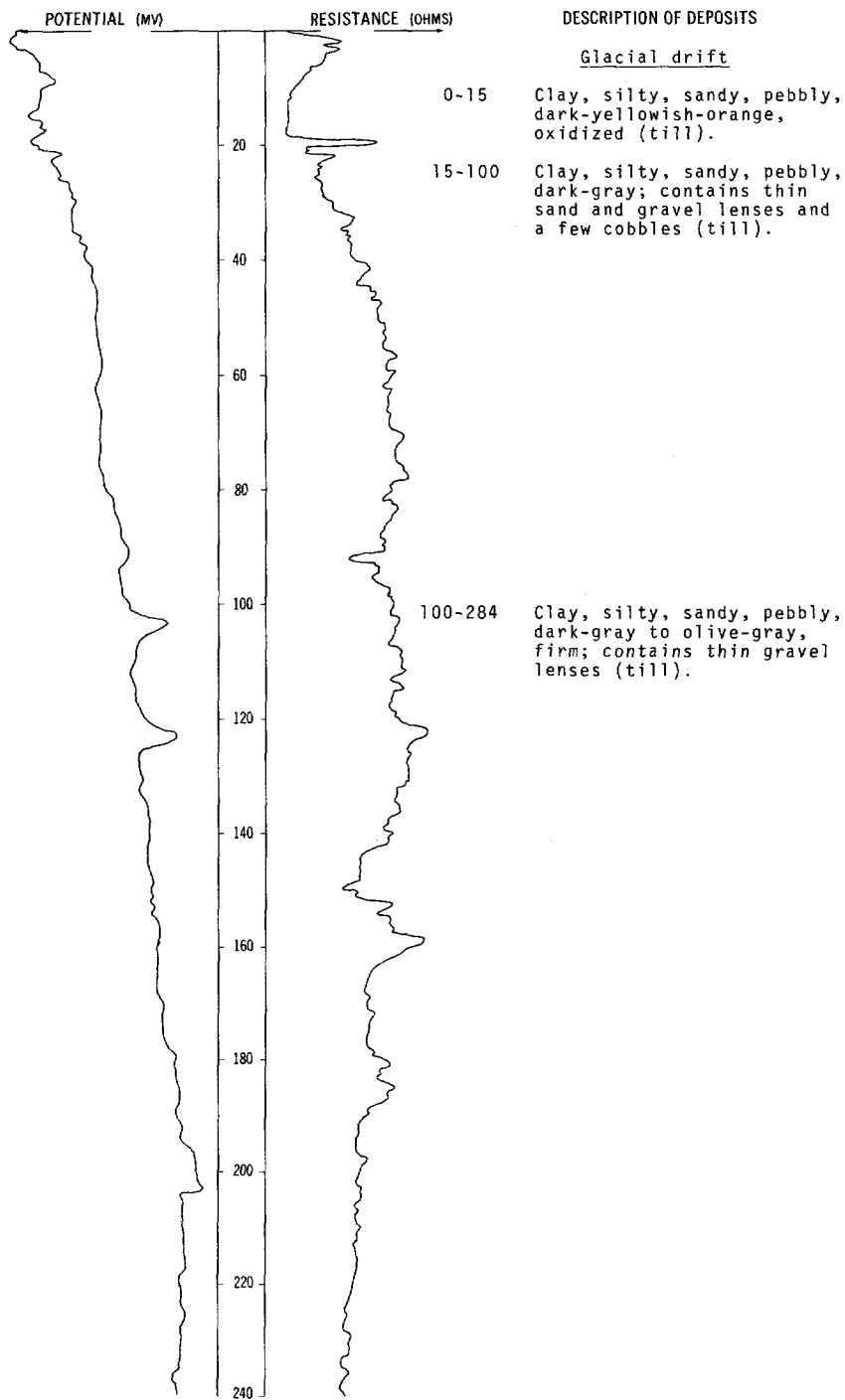
NDSWC 9115

LOCATION: 129-061-15CCC

DATE DRILLED: 9/08/74

ALTITUDE: 1375
(FT, MSL)

DEPTH: 300
(FT)



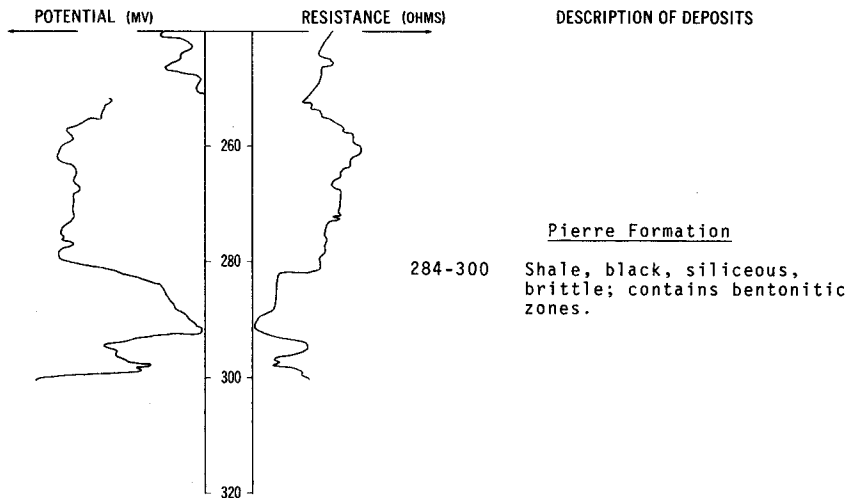
NDSWC 9115, Continued

LOCATION: 129-061-15CCC

DATE DRILLED: 9/08/74

ALTITUDE: 1375
(FT, MSL)

DEPTH: 300
(FT)



129-061-17AAA
Test hole 5638
(Log from Naplin, 1973)

Altitude: 1390 feet

Date drilled: 5/12/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, pebbly, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, cobbles, boulders, dusky-yellow to moderate-yellowish-brown, slightly cohesive, moderately plastic, oxidized (till)-----	23	24
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	156	180

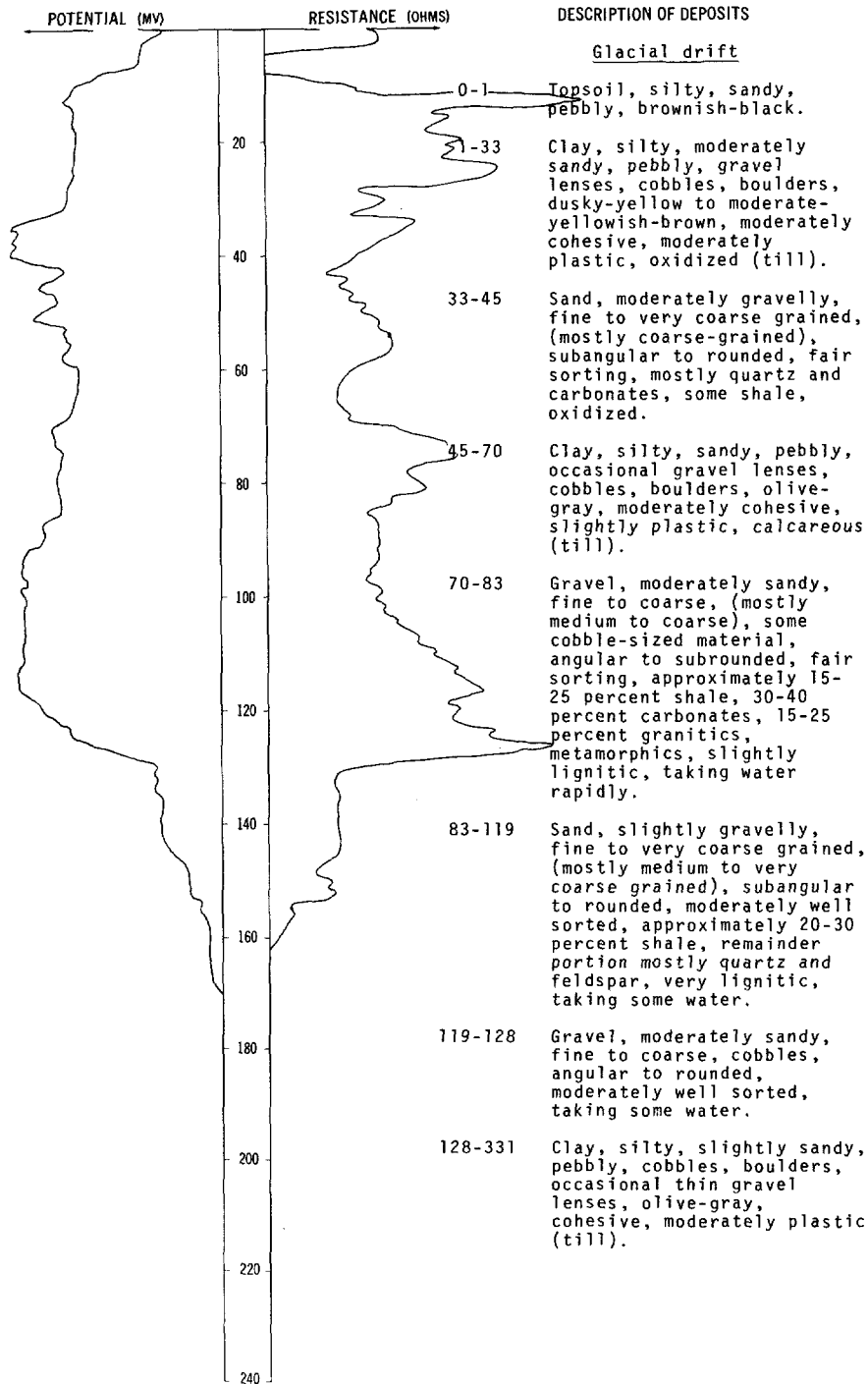
Test hole 5637
(Log from Naplin, 1973)

LOCATION: 129-061-17BBB

DATE DRILLED: 5/12/70

ALTITUDE: 1440
(FT, MSL)

DEPTH: 340
(FT)



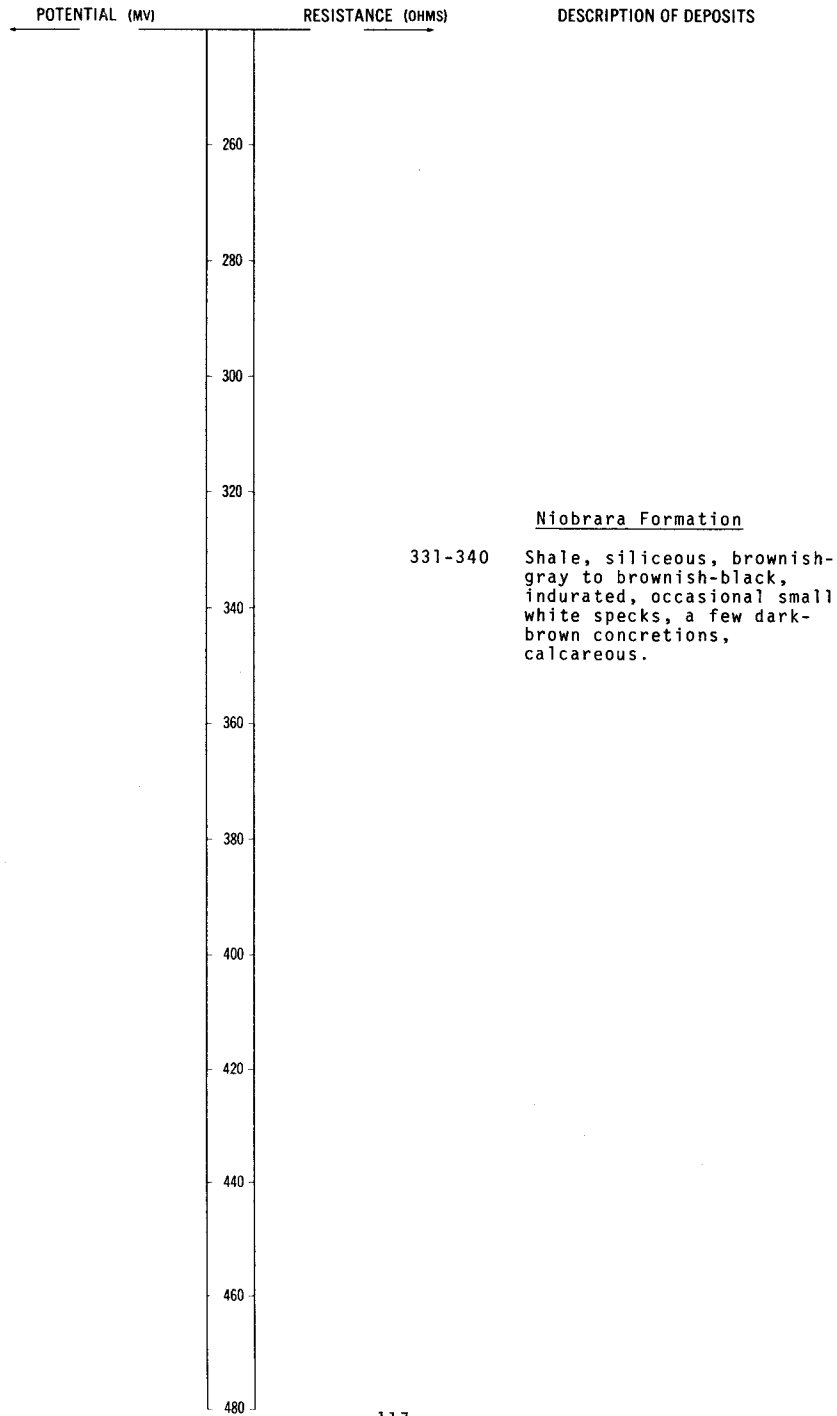
Test hole 5637, Continued
(Log from Naplin, 1973)

LOCATION: 129-061-17BBB

DATE DRILLED: 5/12/70

ALTITUDE: 1440
(FT, MSL)

DEPTH: 340
(FT)



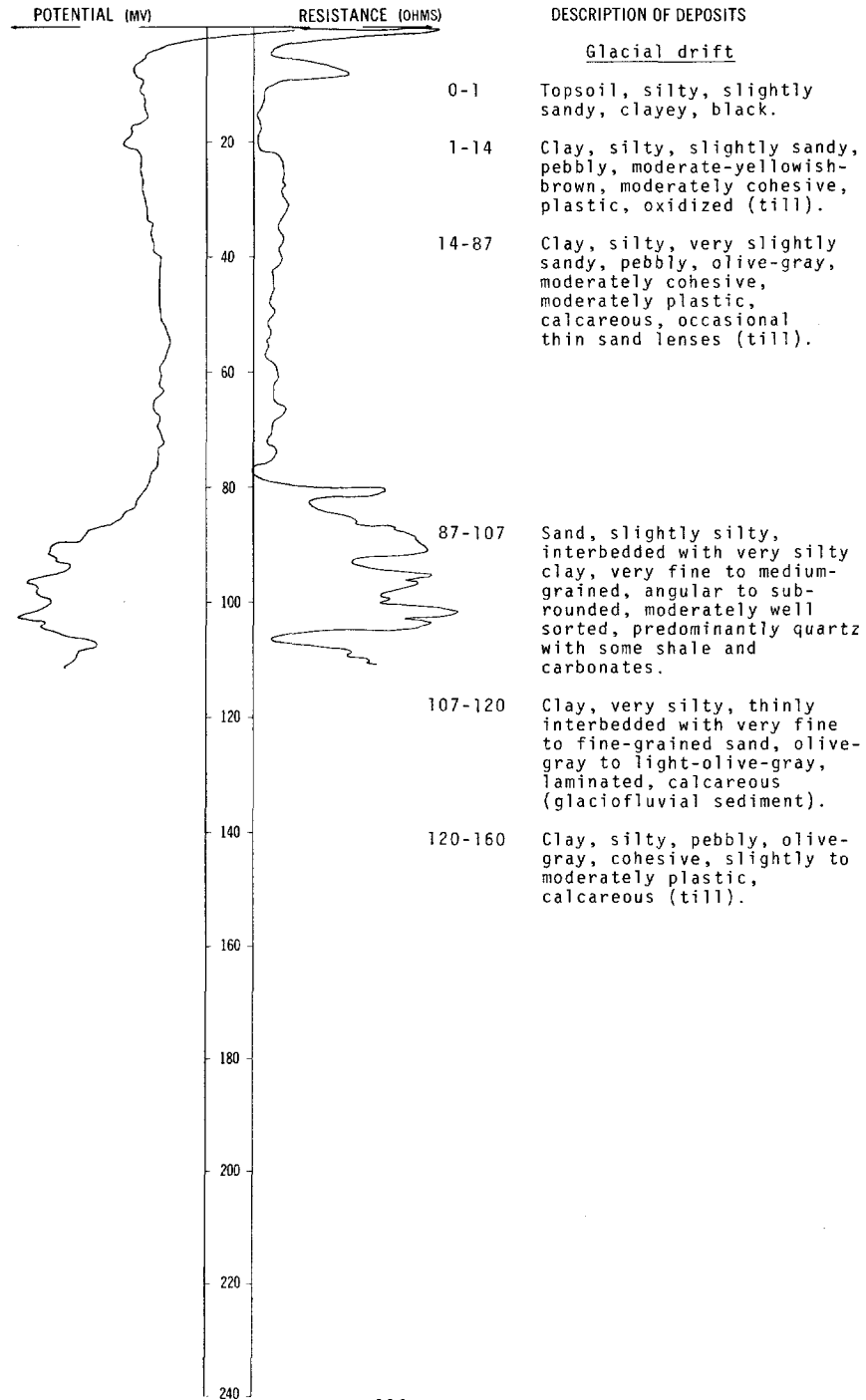
Test hole 5143
(Log from Naplin, 1973)

LOCATION: 129-061-18CCC

DATE DRILLED: 8/28/68

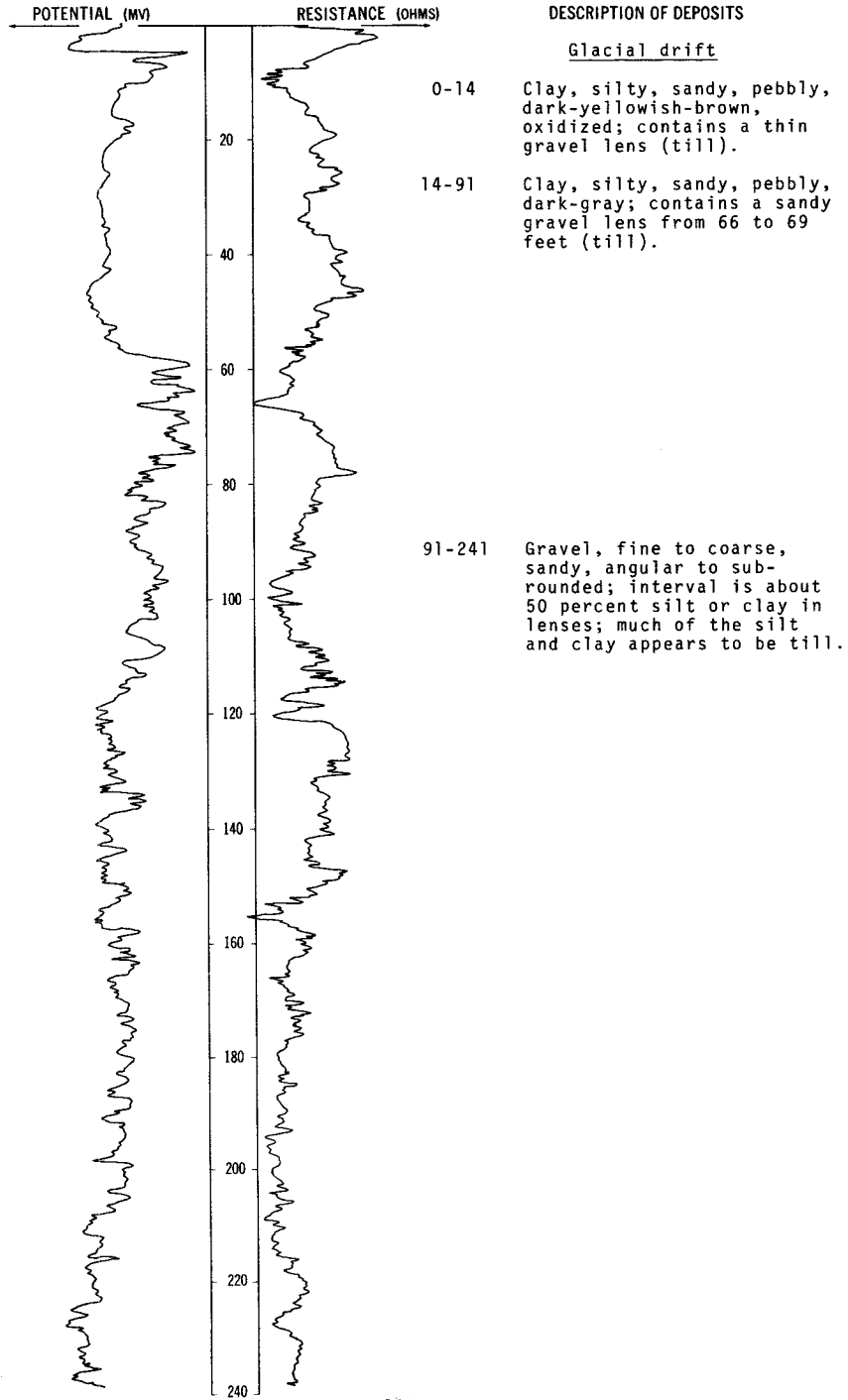
ALTITUDE: 1407
(FT, MSL)

DEPTH: 160
(FT)



LOCATION: 129-061-21 BAA
ALTITUDE: 1384
(FT, MSL)

DATE DRILLED: 9/19/74
DEPTH: 300
(FT)



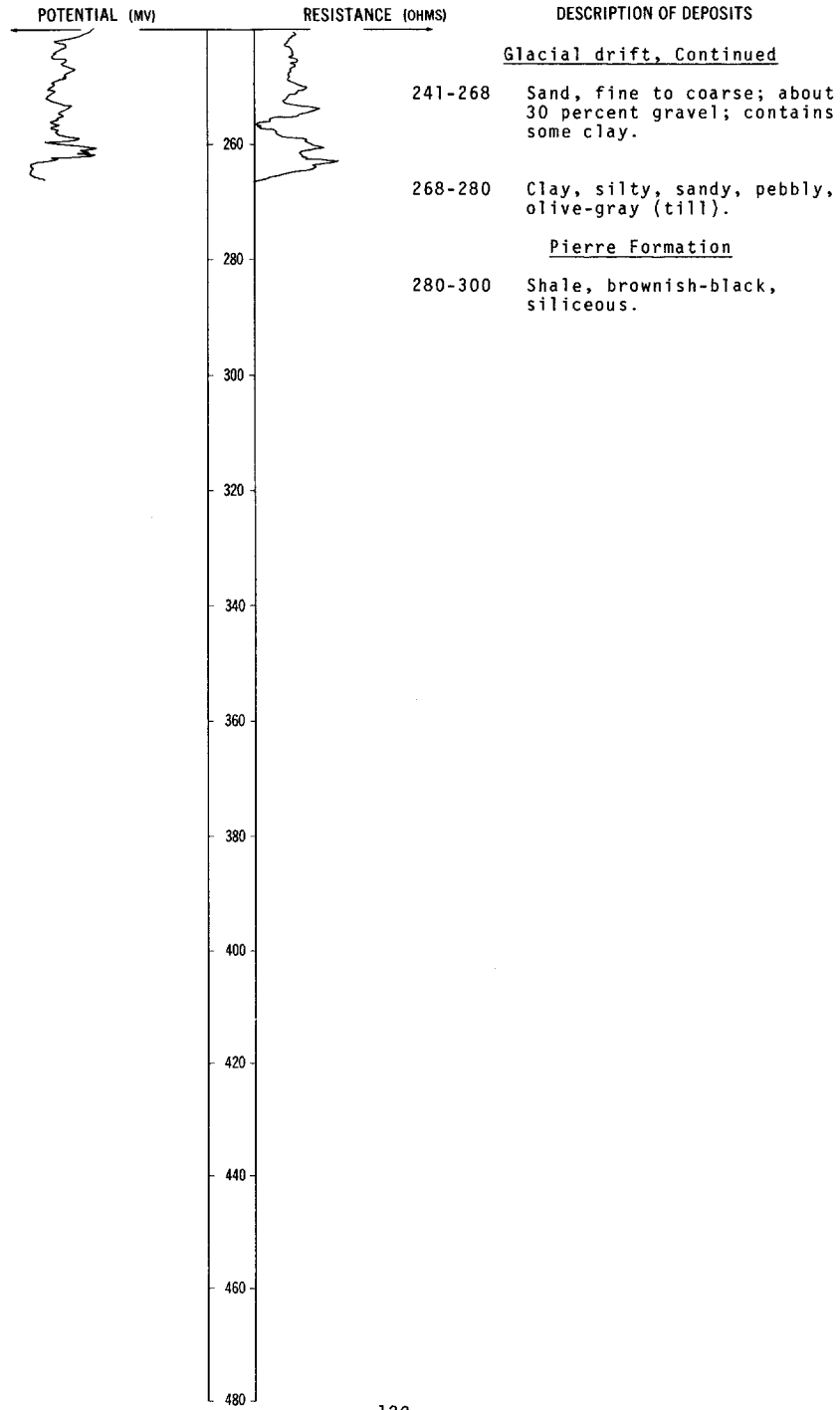
NDSWC 9116, Continued

LOCATION: 129-061-21BAA

DATE DRILLED: 9/19/74

ALTITUDE: 1384
(FT, MSL)

DEPTH: 300
(FT)



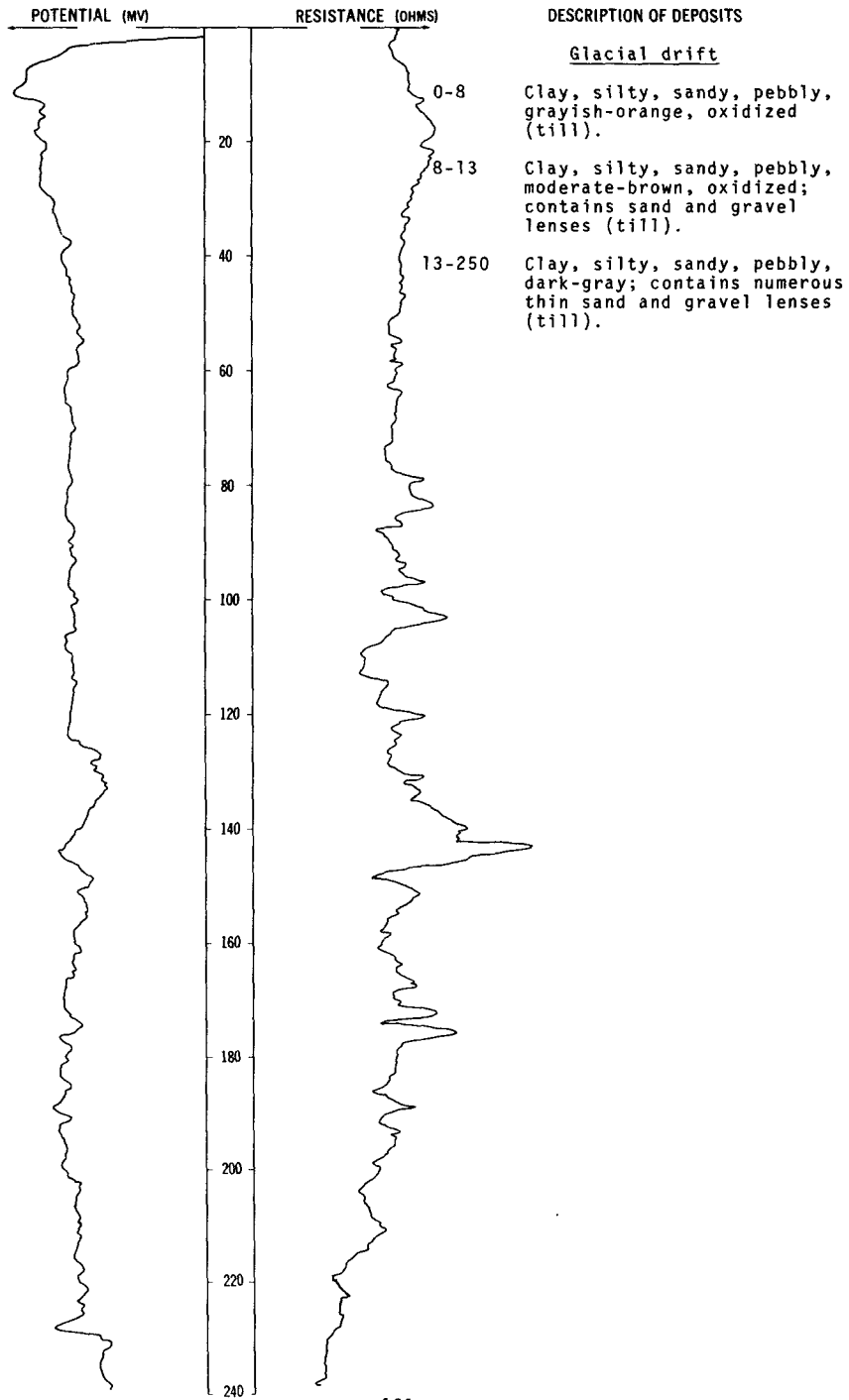
NDSWC 9114

LOCATION: 129-061-23BBB

DATE DRILLED: 9/18/74

ALTITUDE: 1370
(FT, MSL)

DEPTH: 260
(FT)



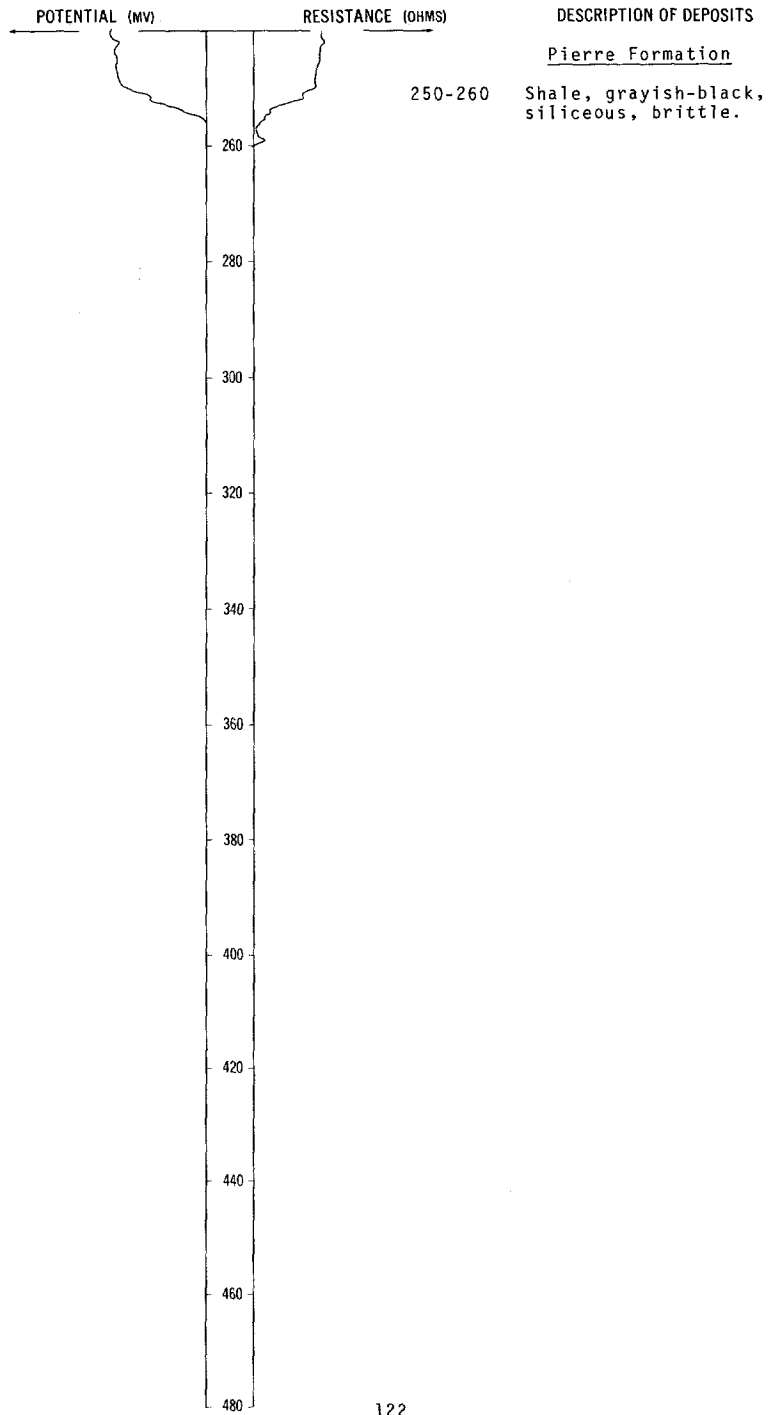
NDSWC 9114, Continued

LOCATION: 129-061-23BBB

DATE DRILLED: 9/18/74

ALTITUDE: 1370
(FT, MSL)

DEPTH: 260
(FT)

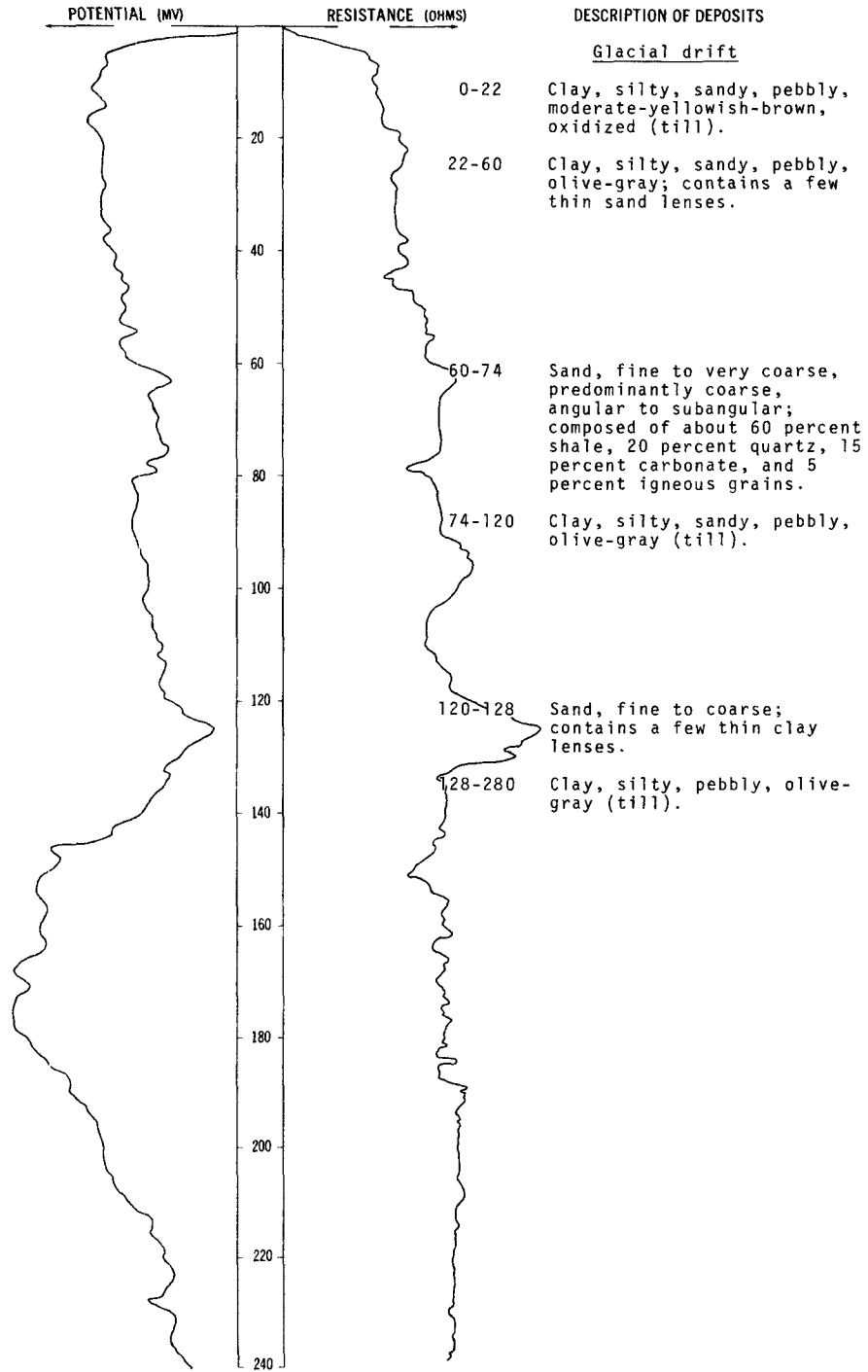


LOCATION: 129-061-28CCC

DATE DRILLED: 9/25/75

ALTITUDE: 1380
(FT, MSL)

DEPTH: 340
(FT)



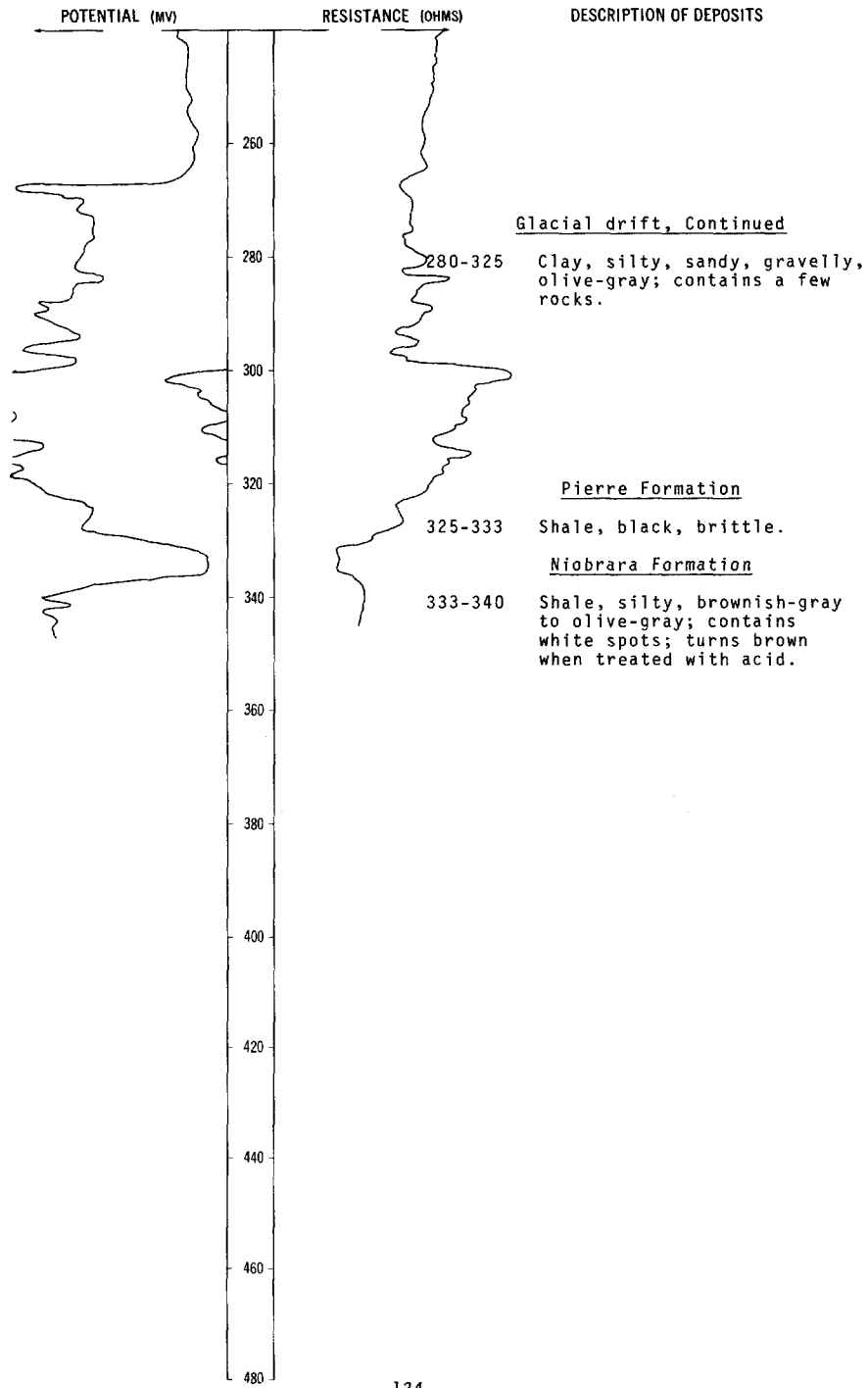
NDSWC 9454, Continued

LOCATION: 129-061-28CCC

DATE DRILLED: 9/25/75

ALTITUDE: 1380
(FT. MSL)

DEPTH: 340
(FT)



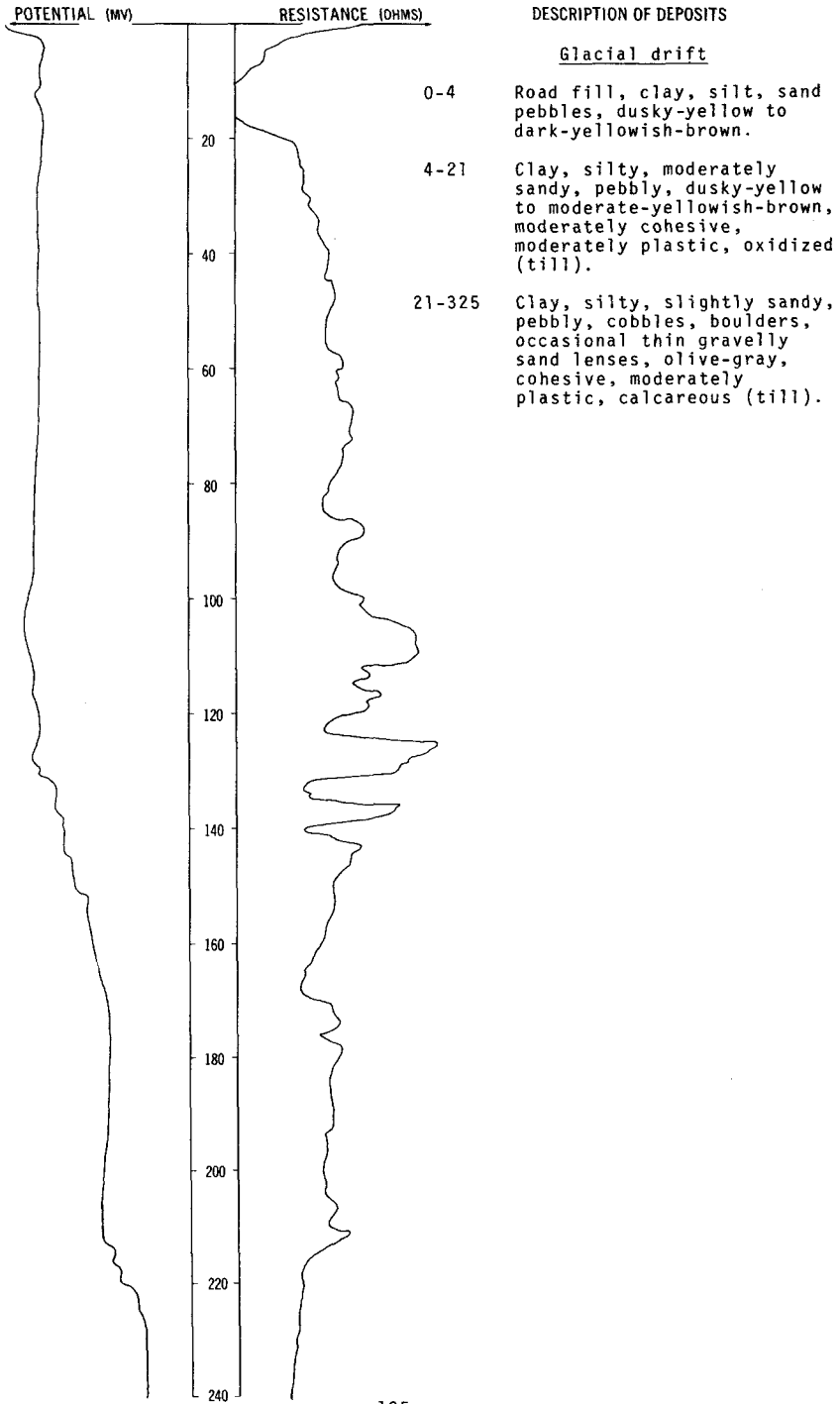
Test hole 5642
(Log from Naplin, 1973)

LOCATION: 129-061-29BBB

DATE DRILLED: 5/13/70

ALTITUDE: 1398
(FT, MSL)

DEPTH: 331
(FT)



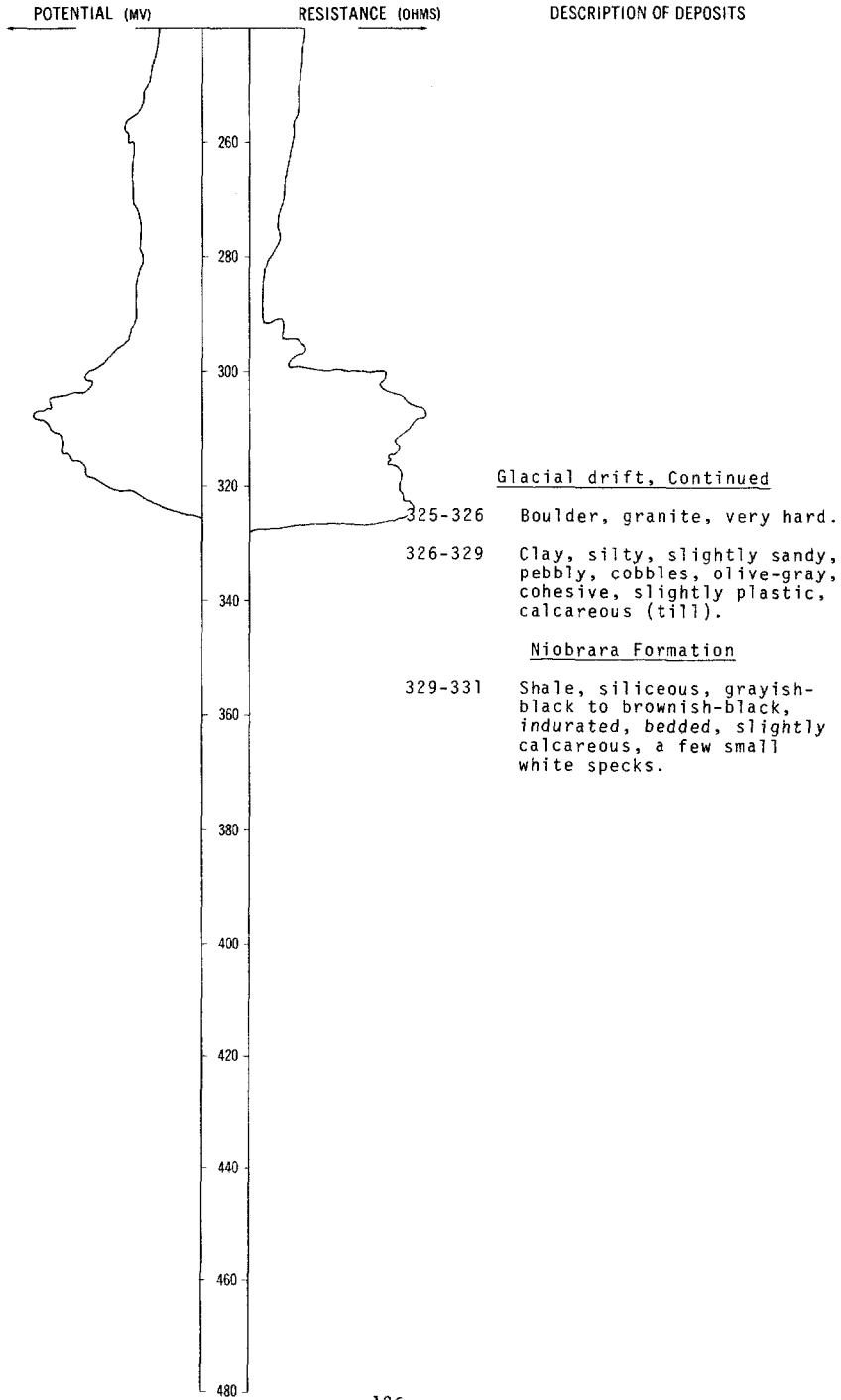
Test hole 5642, Continued
(Log from Naplin, 1973)

LOCATION: 129-061-29BBB

DATE DRILLED: 5/13/70

ALTITUDE: 1398
(FT, MSL)

DEPTH: 331
(FT)



129-061-31AAA
NDSWC 9455

Altitude: 1395 feet Date drilled: 9/26/75

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	26	26
	Clay, silty, sandy, pebbly, olive-gray (till)-----	56	82
	Gravel, fine to coarse, poorly sorted, angular to subrounded-----	4	86
	Clay, sandy, gravelly, silty, olive-gray (till)-----	38	124
	Clay, silty, gravelly, olive-gray; contains several rocks-----	16	140
	Clay, silty, sandy, pebbly, olive-gray (till)-----	208	348
Pierre Formation:			
	Shale, brownish-black, calcareous-----	7	355

129-061-31BCA1
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/26/73

Glacial drift:

Topsoil-----	2	2
Clay, yellow-----	15	17
Sand and gravel-----	15	32

129-061-31BCA2
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/05/73

Glacial drift:

Topsoil-----	2	2
Clay, yellow-----	20	22
Sand and gravel-----	16	38
Clay (till)-----	12	50

129-062-01BAA
 Test hole 5634
 (Log from Naplin, 1973)

Altitude: 1404 feet

Date drilled: 5/08/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, pebbly, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, cobbles, boulders, moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	13	14
	Clay, silty, slightly sandy, pebbly, a few cobbles and boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	40	54
	Sand, occasional thin clay lenses, very fine to coarse-grained, (mostly medium-grained), subangular to rounded, well-sorted, approximately 15-25 percent shale, remaining portion mostly quartz and feldspar, some carbonates, slightly lignitic, "clean looking" samples-----	43	97
	Clay, very silty, gravelly, olive-gray, very plastic, slightly cohesive, calcareous (glaciofluvial sediment)-----	3	100
	Sand, slightly clayey, very fine to medium-grained, subangular to rounded, moderately well sorted, mostly quartz, some shale-----	8	108
	Clay, very silty, moderately sandy, olive-gray, occasional light-olive-gray laminations, very plastic, slightly cohesive, calcareous (glaciofluvial sediment)-----	11	119
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	35	154
	Gravel, fine to coarse, angular to subrounded, poorly sorted, mostly carbonates, some shale and granitics-----	3	157
	Clay, silty, pebbly, slightly sandy, olive-gray, cohesive, plastic, calcareous (till)-----	3	160

129-062-01BBB
 Test hole 5650
 (Log from Naplin, 1973)

Altitude: 1397 feet

Date drilled: 5/19/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, pebbly, boulders, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, cobbles, boulders, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	15	16
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, cohesive, moderately plastic, calcareous (till)-----	51	67
	Sand, very fine to medium-grained, (mostly medium-grained), sub-angular to rounded, well-sorted, mostly quartz and feldspar, approximately 15-25 percent shale, some carbonates, lignitic-----	25	92
	Clay, very silty, sandy, olive-gray, a few light-olive-gray laminations, slightly cohesive, plastic, calcareous (glaciofluvial sediment)-----	4	96
	Sand, occasional thin silty, sandy, clay lenses, very fine to medium-grained, subangular to rounded, well-sorted, mostly quartz, some shale, lignitic-----	25	121
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	19	140

129-062-02BAB
 Test hole 5257
 (Log from Naplin, 1973)

Altitude: 1400 feet

Date drilled: 12/09/68

Glacial drift:			
	Topsoil, silty, slightly sandy, clayey, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	21	22
	Clay, silty, very slightly sandy, pebbly, a few cobbles, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	18	40
	Clay, silty, numerous sand lenses, gravelly, olive-gray, cohesive, plastic, calcareous (till)-----	70	110
	Clay, silty, slightly sandy, pebbly, a few thin lenses of sandy gravel, moderately cohesive to cohesive, moderately plastic, calcareous (till)-----	90	200

129-062-06BAA1
 Test hole 5159
 (Log from Naplin, 1973)

Altitude: 1432 feet Date drilled: 9/04/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, slightly sandy, pebbly, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	14	15
	Clay, silty, very slightly sandy, pebbly, olive-gray, moderately cohesive to cohesive, moderately plastic, calcareous (till)-----	45	60

129-062-06BAA2
 Test hole 5158
 (Log from Naplin, 1973)

Altitude: 1420 feet Date drilled: 9/04/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, pebbly, brownish-black-----	1	1
	Clay, silty, slightly sandy, moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	3	4
	Sand, slightly gravelly, medium to very coarse grained, angular to subrounded, moderately well sorted, approximately 60-70 percent quartz, remainder mostly shale, carbonates and granitics, oxidized upper 10 feet of section-----	15	19
	Clay, silty, pebbly, olive-gray, moderately plastic, calcareous (till)-----	21	40

129-062-06CAC
 Test hole 5165
 (Log from Naplin, 1973)

Altitude: 1415 feet Date drilled: 9/04/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	7	8
	Sand, slightly gravelly, fine to very coarse grained, angular to subrounded, fair to moderate sorting, approximately 60-70 percent quartz, remainder mostly carbonates, shale and lignite-----	7	15
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	25	40

129-062-06CAD1
 Test hole 5163
 (Log from Naplin, 1973)

Altitude: 1428 feet Date drilled: 9/04/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, pebbly, clayey, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, a few cobbles, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	20	21
	Clay, silty, slightly pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	19	40

129-062-06CAD2
 Test hole 5164
 (Log from Naplin, 1973)

Altitude: 1415 feet Date drilled: 9/04/68

Glacial drift:			
	Topsoil, silty, clayey, black-----	1	1
	Clay, silty, slightly sandy, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	4	5
	Sand, very fine to coarse-grained, angular to subrounded, moderately well sorted, predominantly quartz and shale, small percent carbonates-----	4	9
	Clay, silty, slightly sandy, pebbly, olive-gray, very fine grained sand from 16-17 feet, moderately cohesive, moderately plastic, calcareous (till)-----	17	26
	Sand, silty, clayey, fine- to medium-grained, moderately well sorted, subangular to subrounded, mostly carbonates and granitics-----	3	29
	Clay, silty, pebbly, olive-gray, cohesive, plastic, calcareous (till)-----	11	40

129-062-06CCC
 Test hole 5118
 (Log from Naplin, 1973)

Altitude: 1447 feet Date drilled: 8/20/68

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, sandy, silty, clayey, brownish-black-----	1	1
	Clay, sandy, silty, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	19	20
	Clay, silty, pebbly, olive-gray to medium-dark-gray, cohesive, plastic to moderately plastic, calcareous (till)-----	77	97
	Sand, clayey, silty, medium- to coarse-grained, poorly sorted, angular to subrounded, mostly quartz and carbonates, moderate amount of detrital lignite-----	2	99
	Clay, silty, pebbly, a few cobbles, olive-gray, moderately cohesive to cohesive, moderately plastic, calcareous (till)-----	41	140
Pierre Formation:			
	Shale, moderately siliceous, grayish-black to black, moderately indurated, noncalcareous, occasional thin light-olive-gray bentonitic laminations-----	20	160

129-062-06CDD1
 Test hole 5162
 (Log from Naplin, 1973)

Altitude: 1418 feet Date drilled: 9/04/68

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, sandy, silty, pebbly, brown-----	1	1
	Clay, sandy, silty, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	8½	9½
	Gravel, slightly silty, sandy (approximately 25-35 percent medium to very coarse grained, subangular to subrounded sand), fine to coarse (mostly fine to medium), angular to subrounded, fair sorting, mostly limestone, dolostone and shale, some light-colored granitics and chalcedony-----	7½	17
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	23	40

129-062-06CDD2
 Test hole 5119
 (Log from Naplin, 1973)

Altitude: 1417 feet Date drilled: 8/20/68

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, silty, sandy, clayey, black-----	1	1
	Sand, slightly gravelly, fine to very coarse grained, angular to sub-rounded, moderately well sorted, approximately 60-70 percent carbonates with some quartz, shale, granitics, oxidized to 5 feet-----	11	12
	Clay, slightly sandy, silty, pebbly, olive-gray, moderately cohesive, plastic (till)-----	8	20
	Sand, very clayey, silty, slightly gravelly, medium to very coarse grained, angular to subrounded, poorly sorted, mostly carbonates and shale-----	8	28
	Clay, silty, slightly sandy, pebbly, gravelly lower 15 to 20 feet of section, olive-gray, moderately cohesive, plastic, calcareous, lignitic (till)-----	78	106
Pierre Formation:			
	Shale, slightly siliceous, medium-dark-gray to grayish-black, moderately indurated, noncalcareous, occasional thin light-olive-gray bentonitic laminations, a few thin limestone concretions lower 3 to 4 feet of section-----	14	120

129-062-06DCD
 Test hole 750-5
 (Log from Naplin, 1973)

Altitude: 1425 feet Date drilled: 5/27/64

Glacial drift:			
	Clay, silty, sandy, brownish-yellow, oxidized, moderately cohesive, slightly plastic, calcareous (till)-----	16	16
	Clay, silty, sandy, pebbly, a few boulders, olive-gray, moderately cohesive, slightly plastic, calcareous, lignitic (till)-----	76	92
	Clay, as above with shale fragments, cohesive, dark-olive-gray, noncalcareous, limestone boulder from 99 to 103 feet (till)-----	24	116
Pierre Formation:			
	Shale, dark-greenish-gray, brittle, fissile-----	4	120

129-062-07ACC
 Test hole 5121
 (Log from Naplin, 1973)

Altitude: 1432 feet

Date drilled: 8/21/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, sandy, silty, clayey, dark-yellowish-brown-----	1	1
	Clay, silty, very slightly sandy, pebbly, moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	15	16
	Clay, silty, slightly sandy, pebbly, occasional cobbles, olive-gray, moderately cohesive to cohesive, moderately plastic, calcareous, lignitic (till)-----	107	123
Pierre Formation:			
	Shale, slightly siliceous, medium-dark-gray to grayish-black, moderately indurated, noncalcareous, occasional light-olive-gray bentonitic laminations---	17	140

129-062-07ADD
 Test hole 5122
 (Log from Naplin, 1973)

Altitude: 1430 feet

Date drilled: 8/21/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, sandy, silty, pebbly, dark-yellowish-brown-----	1	1
	Clay, very sandy, silty, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	2	3
	Sand, silty, medium- to coarse-grained, angular to subrounded, fair sorting, approximately 60-70 percent quartz, remainder shale and carbonates, oxidized-----	3	6
	Clay, moderately sandy, silty, pebbly, moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	12	18
	Clay, slightly sandy, silty, pebbly, dark-yellowish-brown to olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	13	31
	Sand, slightly gravelly, interbedded with thin lenses of olive-gray clay, medium- to coarse-grained, angular to subrounded, moderately well sorted, predominantly shale and lignite, some carbonates-----	4	35
	Clay, silty, very slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	47	82
	Gravel, sandy (approximately 20-30 percent medium to very coarse grained, subangular to subrounded sand), fine to coarse, angular to rounded, fair sorting, predominantly shale and lignite, less than 5 to 10 percent carbonates-----	3	85
	Clay, slightly to moderately sandy, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	4	89
	Sand, gravelly, (approximately 30-40 percent fine, angular to subrounded shale gravel), fine- to coarse-grained, angular to subrounded, moderately well sorted, 50-60 percent quartz, remainder shale, lignite, limestone and dolostone-----	3	92
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous, a few cobbles (till)-----	22	114
Pierre Formation:			
	Shale, slightly siliceous, medium-dark-gray to grayish-black, noncalcareous, nonfractured, moderately indurated-----	6	120

129-062-07BDD1
 Test hole 5150
 (Log from Naplin, 1973)

Altitude:	1412 feet	Date drilled:	8/30/68
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, sandy, pebbly, silty, black-----	1	1
	Clay, slightly sandy, silty, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	6	7
	Gravel, slightly sandy, fine to medium, angular to subrounded, poorly sorted, mostly carbonates and granitics, oxidized-----	3	10
	Clay, silty, sandy, pebbly, olive-gray, moderately cohesive, plastic (till)-----	3	13
	Sand, medium to very coarse grained, subangular, subrounded, moderately well sorted, mostly quartz and shale, some carbonates-----	2	15
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	25	40

129-062-07BDD2
 Test hole 5120
 (Log from Naplin, 1973)

Altitude:	1415 feet	Date drilled:	8/21/68
Glacial drift:			
	Topsoil, clayey, silty, slightly sandy, black-----	1	1
	Gravel, slightly sandy, interbedded with moderate-yellowish-brown clay, fine to coarse, angular to subrounded, fair sorting, predominantly carbonates, some granitics and shale-----	5	6
	Clay, moderately sandy, silty, pebbly, moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	5	11
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive to moderately cohesive, plastic, calcareous (till)-----	58	69
	Sand, very fine to medium-grained, angular to subrounded, fair sorting, mostly quartz and shale, some detrital lignite, poor samples-----	2	71
	Clay, slightly sandy, silty, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	9	80

129-062-07CAB
 Test hole 5149
 (Log from Naplin, 1973)

Altitude: 1415 feet Date drilled: 8/29/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, sandy, silty, clayey, brownish-black-----	1	1
	Clay, slightly sandy, silty, pebbly, moderate-yellowish-brown, cohesive, slightly plastic, oxidized (till)-----	6	7
	Gravel, slightly sandy, fine to coarse, angular to subrounded, poorly sorted, oxidized, mostly carbonates and light-colored granitics, very little shale-----	3	10
	Clay, silty, very slightly sandy, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	30	40

129-062-07CBB
 Test hole 5123
 (Log from Naplin, 1973)

Altitude: 1440 feet Date drilled: 8/21/68

Glacial drift:			
	Topsoil, sandy, pebbly, silty, dark-yellowish-brown-----	1	1
	Clay, sandy, very slightly gravelly, silty, moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	20	21
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive to cohesive, plastic, calcareous (till)-----	44	65
	Sand, slightly gravelly, fine- to coarse-grained, angular to subrounded, moderately well sorted, approximately 50-60 percent quartz, remainder shale and carbonates-----	3	68
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive, plastic (till)-----	12	80

129-062-07CCC1
 Test hole 750-2
 (Log from Naplin, 1973)

Altitude: 1415 feet	Date drilled: 1964		
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, black-----	1	1
	Clay, silty, sandy, brownish-yellow, moderately cohesive, calcareous, oxidized (till)-----	13	14
	Clay, silty, sandy, pebbly, interbedded with thin coarse-grained sand lenses, olive-gray, moderately cohesive, moderately plastic, slightly calcareous, lignitic (till)-----	77	91
	Clay, sandy, pebbly, olive-gray, cohesive, moderately calcareous (till)-----	18	109
Pierre Formation:			
	Shale, dark-blackish-gray, indurated, noncalcareous-----	11	120

129-062-07CCC2
 Test hole 1177
 (Log from Naplin, 1973)

Altitude: 1415 feet	Date drilled: 1957		
Glacial drift:			
	Topsoil, black-----	1	1
	Clay, yellow-----	4	5
	Gravel, fine to medium, much shale-----	6	11
	Gravel, coarse, much shale, some cobbles-----	7	18

129-062-07CDD
 Test hole 750-3
 (Log from Naplin, 1973)

Altitude: 1435 feet	Date drilled: 1964		
Glacial drift:			
	Clay, sandy, occasional boulders, brownish-yellow, slightly cohesive, moderately plastic, calcareous (till)-----	23	23
	Clay, silty, sandy, a few boulders, olive-gray, moderately cohesive, slightly plastic, moderately calcareous (till)-----	58	81
	Gravel, sandy, fine to coarse, poorly sorted, subangular to subrounded, mostly limestone, shale and granitics-----	2	83
	Sand, interbedded with clay lenses from 95 to 112 feet, medium to very coarse grained, moderately well sorted, subangular to subrounded, mostly shale, granitics and limestone, some lignite-----	29	112
	Clay, silty, sandy, olive-gray, cohesive, moderately calcareous (till)-----	19	131
Pierre Formation:			
	Shale, dark-blackish-gray, indurated, noncalcareous-----	9	140

129-062-07DBB
 Test hole 1176
 (Log from Naplin, 1973)

Altitude: 1434 feet Date drilled: 7/19/57

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, black-----	2	2
	Gravel, fine to coarse-----	26	28
	Clay, gray, gravelly (till)-----	2	30

129-062-07DDD
 Test hole 750-4
 (Log from Naplin, 1973)

Altitude: 1430 feet Date drilled: 5/26/64

Glacial drift:			
	Clay, silty to sandy, brownish-yellow, moderately cohesive, oxidized (till)-----	16	16
	Clay, silty, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	30	46
	Sand, gravelly, coarse to very coarse grained, moderately well sorted, subangular, 50-60 percent shale, remainder limestone and granitics-----	12	58
	Clay, silty, sandy, pebbly, olive-gray, moderately plastic, highly calcareous, detrital shale fragments from 93 to 137 feet (till)-----	79	137
Pierre Formation:			
	Shale, dark-blackish-gray, indurated, noncalcareous-----	13	150

129-062-08BBA
 Test hole 750-6
 (Log from Naplin, 1973)

Altitude: 1430 feet

Date drilled: 5/27/62

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, black-----	1	1
	Clay, silty, sandy, pebbly, brownish-yellow, slightly cohesive, moderately calcareous, a few boulders (till)-----	20	21
	Sand, gravelly, coarse-grained, moderately sorted, subangular to subrounded, mostly limestone and granitics, some shale, oxidized-----	13	34
	Clay, silty, olive-gray, moderately cohesive, plastic, highly calcareous (till)-----	7	41
	Gravel, slightly sandy, fine to medium, subangular to subrounded, moderately sorted, mostly shale, limestone and granitics-----	5	46
	Clay, silty, sandy, olive-gray, moderately cohesive, plastic, moderately calcareous (till)-----	5	51
	Gravel, slightly sandy, fine to medium, subangular to subrounded, moderately sorted, approximately 50 percent shale, remainder lime- stone and granitics-----	2	53
	Clay, silty, sandy, olive-gray, moderately cohesive, plastic, moderately calcareous (till)-----	30	83
	Sand, medium- to coarse-grained, moderately sorted, subangular to subrounded, mostly limestone and shale, some granitics-----	7	90
	Clay, sandy, olive-gray, moderately cohesive, slightly plastic, moderately calcareous (till)-----	38	128
Pierre Formation:			
	Shale, dark-blackish-gray, indurated, noncalcareous-----	7	135

129-062-08CDD
 Test hole 5116
 (Log from Naplin, 1973)

Altitude: 1422 feet

Date drilled: 8/20/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, sandy, silty, clayey, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, moderate-yellowish-brown to dark-yellowish-brown, cohesive to moderately cohesive, moderately plastic, oxidized (till)-----	13	14
	Clay, silty, very slightly sandy, pebbly, olive-gray, moderately cohesive to cohesive, moderately plastic to plastic, calcareous (till)-----	46	60
	Gravel, sandy (approximately 20-30 percent medium to very coarse grained, angular to subrounded sand), fine to coarse, angular to subrounded, fair sorting, mostly carbonates, some shale and light-colored granitics-----	3	63
	Clay, silty, pebbly, olive-gray, cohesive to moderately cohesive, moderately plastic, calcareous (till)-----	53	116
	Clay, silty, slightly gravelly, a few cobbles, pebbly, olive-gray, cohesive to moderately cohesive, moderately plastic, calcareous (till)-----	24	140

129-062-08DDD
 Test hole 5117
 (Log from Naplin, 1973)

Altitude: 1417 feet Date drilled: 8/20/68

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, silty, sandy, clayey, black-----	1	1
	Clay, slightly to moderately sandy, pebbly, silty, dusky-yellow to moderate-yellowish-brown, slightly to moderately cohesive, plastic, oxidized (till)-----	14	15
	Clay, slightly sandy, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	62	77
	Sand, medium- to coarse-grained, poorly sorted, poor samples-----	1	78
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	31	109
	Gravel, slightly sandy, angular to subrounded, poorly sorted, fine to coarse, mostly carbonates, some shale and lignite-----	2	111
	Clay, silty, sandy, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	15	126
Pierre Formation:			
	Shale, grayish-black to medium-dark-gray, slightly siliceous, noncalcareous, nonfractured, moderately indurated-----	14	140

129-062-10ADD
 Test hole 5138
 (Log from Naplin, 1973)

Altitude: 1379 feet Date drilled: 8/27/68

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, silty, slightly sandy, clayey, black-----	1	1
	Clay, slightly sandy, silty, pebbly, moderate-yellowish-brown to dark-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	9	10
	Gravel, slightly sandy, fine to medium, angular to subrounded, poorly sorted, mostly quartz and carbonates, some shale and granitics-----	3	13
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	20	33
	Sand, fine- to medium-grained, moderately well sorted, mostly quartz, some shale and carbonates-----	3	36
	Clay, silty, slightly sandy, occasionally interbedded with gravel lenses, olive-gray, moderately cohesive, plastic to moderately plastic, calcareous, lignitic (till)-----	124	160

129-062-10CD
 Test hole 5136
 (Log from Naplin, 1973)

Altitude: 1378 feet

Date drilled: 8/26/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, slightly sandy, pebbly, black-----	1	1
	Clay, very silty, moderately sandy, pebbly, moderate-yellowish-brown to dark-yellowish-brown, slightly cohesive, moderately plastic, oxidized (till)-----	12	13
	Sand, gravelly (approximately 15-30 percent fine, angular to subangular gravel), medium to very coarse grained, angular to subrounded, moderately well sorted, approximately 50-60 percent quartz, remainder shale, light- and dark-colored granitics and carbonates-----	7	20
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	40	60
	Clay, silty, occasionally interbedded with thin, poorly sorted gravel lenses, pebbly, a few cobbles, olive-gray, moderately cohesive to cohesive, moderately plastic, calcareous (till)-----	20	80
	Clay, silty, very slightly sandy, pebbly, olive-gray, moderately cohesive to cohesive, plastic, calcareous (till)-----	120	200
	Clay, silty, pebbly, thinly interbedded with lenses of poorly sorted clayey and silty medium-grained sand, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	106	306
Niobrara Formation:			
	Shale, grayish-brown with numerous moderate-brown concretions, a few white specks, slightly siliceous, thinly laminated, indurated, slightly calcareous-----	14	320

129-062-12BBB
 Test hole 5621
 (Log from Naplin, 1973)

Altitude: 1395 feet

Date drilled: 5/05/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, clayey, grayish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	18	19
	Clay, silty, slightly sandy, pebbly, a few cobbles, olive-gray, moderately cohesive, plastic, calcareous (till)-----	38	57
	Gravel, very sandy, some cobbles, fine to coarse, angular to rounded, mostly carbonates, some granitics-----	1	58
	Clay, silty, slightly sandy, pebbly, numerous cobbles and boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	22	80
	Clay, same as above, but without cobbles and boulders (till)-----	55	135
	Clay, silty, very sandy, sand occurs as lenses, olive-gray, cohesive, very plastic, calcareous (till)-----	20	155
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive, plastic, calcareous (till)-----	8	163
	Sand, fine- to medium-grained, subangular to subrounded, fair sorting, mostly quartz and carbonates-----	3	166
	Clay, silty, slightly sandy, pebbly, a few cobbles and boulders, olive-gray, cohesive, moderately plastic, calcareous (till)-----	138	304
	Gravel, cobbles and boulders, fine to coarse, angular, poorly sorted, mostly carbonates and shale, some granitics-----	2	306
Niobrara Formation:			
	Shale, grayish-brown to brownish-black, occasional small white specks, slightly calcareous, indurated-----	14	320

129-062-12CCC
 Test hole 5641
 (Log from Naplin, 1973)

Altitude: 1400 feet

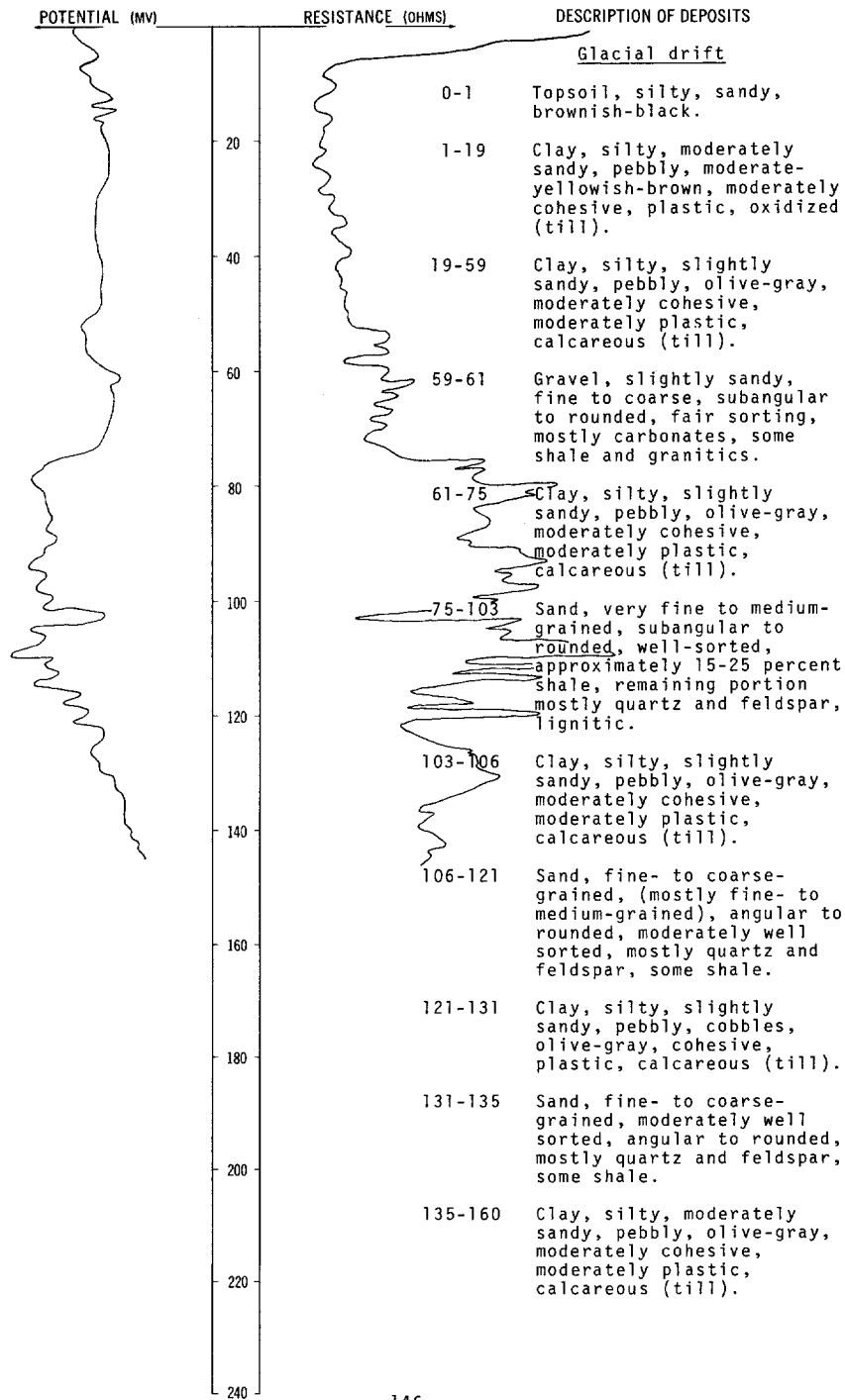
Date drilled: 5/13/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, clayey, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, a few cobbles, moderate-yellowish-brown, slightly plastic, moderately cohesive, oxidized (till)-----	20	21
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, cohesive, moderately plastic, calcareous (till)-----	80	101
	Gravel, moderately sandy, fine to coarse, (mostly fine to medium), angular to subangular, moderately well sorted, mostly quartz, granitics and metamorphics, some shale and carbonates, taking some water-----	5	106
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	24	130

Test hole 5636
(Log from Naplin, 1973)

LOCATION: 129-062-12DDA
ALTITUDE: 1407
(FT, MSL)

DATE DRILLED: 5/12/70
DEPTH: 160
(FT)



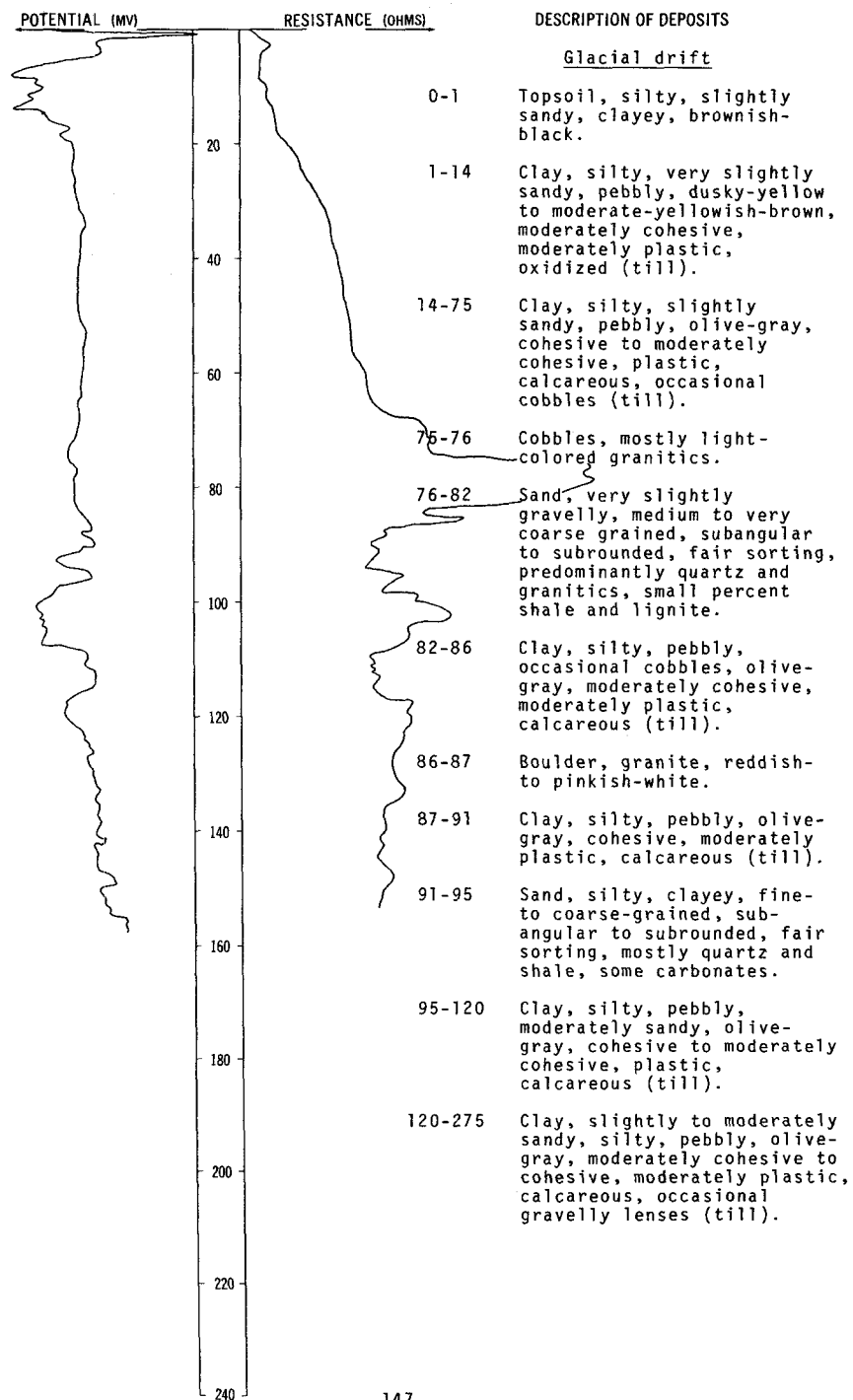
Test hole 5142
(Log from Naplin, 1973)

LOCATION: 129-062-13DAA

DATE DRILLED: 8/27/68

ALTITUDE: 1402
(FT, MSL)

DEPTH: 280
(FT)



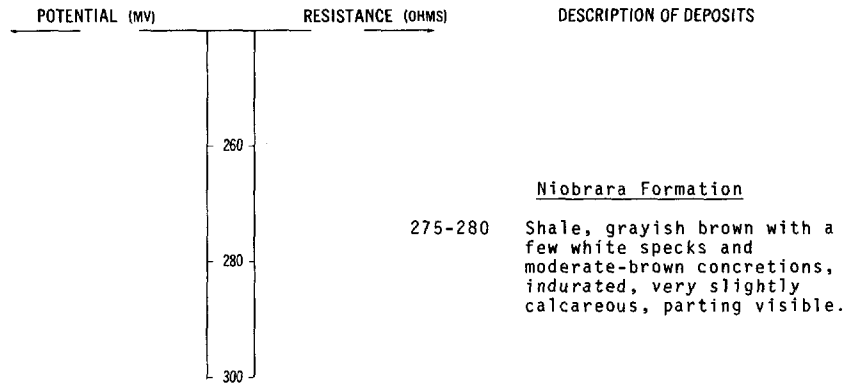
Test hole 5142, Continued
(Log from Naplin, 1973)

LOCATION: 129-062-13DAA

DATE DRILLED: 8/27/68

ALTITUDE: 1402
(FT, MSL)

DEPTH: 280
(FT)



129-062-13DBD
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 5/16/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	2	2
	Clay, yellow-----	18	20
	Till, gray-----	45	65
	Sand-----	3	68
	Clay-----	20	88

129-062-14CCC
 Test hole 5141
 (Log from Naplin, 1973)

Altitude: 1381 feet

Date drilled: 8/27/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, sandy, silty, clayey, brownish-black-----	1	1
	Clay, moderately sandy, silty, pebbly, dusky-yellow to moderate-yellowish-brown, slightly to moderately cohesive, plastic, oxidized (till)-----	7	8
	Sand, silty, clayey, slightly gravelly, fine to very coarse grained, angular to subrounded, poorly sorted, oxidized, mostly quartz and carbonates, some shale-----	3	11
	Clay, sandy, silty, pebbly, dark-yellowish-brown, moderately cohesive, moderately plastic, calcareous, oxidized (till)-----	6	17
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive to moderately cohesive, plastic, calcareous, occasional thin gravel lenses-----	48	65
	Sand, very fine to coarse-grained, angular to rounded, well-sorted, mostly quartz with moderate amount of shale and carbonates-----	5	70
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	6	76
	Sand, very fine to medium-grained, subangular to rounded, moderately well sorted, mostly quartz, some shale and carbonates-----	2	78
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous, a few cobbles (till)-----	82	160

129-062-15AAB
 Test hole 5137
 (Log from Naplin, 1973)

Altitude: 1378 feet Date drilled: 8/26/68

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, sandy, slightly pebbly, silty, brownish-black-----	1	1
	Clay, moderately sandy, silty, pebbly, moderate-yellowish-brown to dark-yellowish-brown, moderately cohesive, moderately plastic, calcareous, oxidized (till)-----	6	7
	Sand, slightly gravelly, medium to very coarse grained, angular to subrounded, poorly sorted, oxidized, mostly quartz and carbonates, some shale-----	8	15
	Clay, slightly sandy, silty, pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	59	74
	Clay, silty, interbedded with poorly sorted sandy gravel, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	142	216
	Clay, silty, very slightly sandy, pebbly, olive-gray, moderately cohesive to cohesive, plastic, calcareous (till)-----	74	290
Niobrara Formation:			
	Shale, grayish-brown with numerous brown concretions, very slightly siliceous, thinly laminated, slightly calcareous, a few white specks, dark-brown film on drilling mud, indurated-----	30	320

129-062-17AAA
 (Log from Albrecht Well Work)

Altitude: 1422 feet Date drilled: 10/02/74

Glacial drift:			
	Topsoil, black-----	2	2
	Clay, silty, yellow-----	16	18
	Clay, blue, stones-----	37	55
	Sand, coarse gravelstones-----	5	60

129-062-18BBA
 Test hole 5151
 (Log from Naplin, 1973)

Altitude: 1420 feet Date drilled: 8/30/68

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, silty, sandy, pebbly, black-----	1	1
	Clay, very sandy, silty, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	2	3
	Gravel, very clayey (clay occurs as matrix material, could be classified as gravelly till), fine to very coarse, angular to subrounded, poorly sorted, mostly carbonates and shale, some light-colored granitics-----	7	10
	Sand, interbedded with thin clay lenses, very fine to medium-grained, subangular to subrounded, moderately well sorted, approximately 60-70 percent quartz, some shale and carbonates-----	10	20
	Gravel, slightly sandy, fine to coarse, angular to subrounded, fair sorting, approximately 50 percent carbonates and 50 percent shale and light-colored granitics-----	2	22
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	3	25
	Sand, very fine to medium-grained, subangular to subrounded, moderately well sorted, mostly shale with moderate amount of quartz-----	1	26
	Clay, silty, slightly sandy, pebbly, a few cobbles, olive-gray, slightly to moderately cohesive, plastic, calcareous (till)-----	80	106
Pierre Formation:			
	Shale, medium-dark-gray to grayish-black, moderately indurated, noncalcareous, occasional light-olive-gray bentonitic laminations-----	14	120

129-062-18BBB1
 Test hole 5152
 (Log from Naplin, 1973)

Altitude: 1415 feet Date drilled: 9/05/68

Glacial drift:			
	Topsoil, silty, clayey, sandy, black-----	1	1
	Clay, silty, very slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	7	8
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	32	40

129-062-188882
 Test hole 5173
 (Log from Naplin, 1973)

Altitude: 1413 feet Date drilled: 9/03/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, pebbly, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	4	5
	Gravel, sandy (approximately 20-30 percent medium to very coarse grained sand), fine to medium, angular to subrounded, fair sorting, mostly granitics and carbonates with some shale-----	10	15
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	25	40

129-062-188883
 Test hole 5172
 (Log from Naplin, 1973)

Altitude: 1417 feet Date drilled: 9/03/68

Glacial drift:			
	Topsoil, gravelly, sandy, silty, brown-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	2	3
	Sand, slightly gravelly, medium to very coarse grained, angular to subrounded, moderately well sorted, mostly quartz and light-colored granitics, some carbonates and shale-----	24	27
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	13	40

129-062-18BCB
 Test hole 5131
 (Log from Naplin, 1973)

Altitude: 1412 feet Date drilled: 8/22/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, sandy, brownish-black-----	1	1
	Clay, slightly to moderately sandy, silty, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive to cohesive, plastic, oxidized (till)-----	5	6
	Gravel, sandy (approximately 35-45 percent fine to very coarse grained, angular to subrounded shale sand), fine to medium, angular to subrounded, moderately well sorted, approximately 50-60 percent shale, remainder carbonates and granitics-----	15	21
	Clay, silty, sandy, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	39	60

129-062-18BCD
 Test hole 5125
 (Log from Naplin, 1973)

Altitude: 1428 feet Date drilled: 8/22/68

Glacial drift:			
	Topsoil, sandy, silty, clayey, brownish-black-----	1	1
	Clay, slightly to moderately sandy, silty, pebbly, moderate-yellowish-brown to dark-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	19	20
	Clay, silty, sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	5	25
	Sand, very fine to medium-grained, angular to rounded, well-sorted, approximately 70-80 percent quartz, remainder shale, carbonates and lignite-----	2	27
	Clay, slightly sandy, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	13	40
	Gravel, slightly sandy, fine to coarse, angular to subrounded, fair sorting, mostly shale and carbonates, some light-colored granitics-----	5	45
	Clay, silty, sandy, pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	15	60

129-062-18DCC
 Test hole 750-7
 (Log from Naplin, 1973)

Altitude: 1431 feet Date drilled: 5/27/64

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, black-----	1	1
	Clay, silty, pebbly, a few boulders, grayish-yellow, moderately cohesive, moderately plastic (till)-----	18	19
	Clay, silty, sandy, pebbly, olive-gray, moderately cohesive, slightly plastic, moderately calcareous (till)-----	39	58
	Clay, silty, sandy, pebbly, olive-gray, moderately cohesive, plastic, moderately calcareous (till)-----	47	105
	Clay, very silty, very sandy, a few boulders, olive-gray, very slightly cohesive, moderately calcareous (till)-----	12	117
Pierre Formation:			
	Shale, greenish-gray, noncalcareous, indurated-----	13	130

129-062-21DDD
 Test hole 5144
 (Log from Naplin, 1973)

Altitude: 1385 feet Date drilled: 8/28/68

Glacial drift:			
	Topsoil, silty, sandy, clayey, brownish-black-----	1	1
	Clay, very silty, sandy, dusky-yellow, poor samples-----	1	2
	Gravel, slightly to moderately sandy, fine to coarse, angular to subrounded, mostly shale and carbonates, some granitics, slightly oxidized-----	5	7
	Clay, slightly sandy, silty, pebbly, olive-gray, moderately cohesive, plastic to moderately plastic, calcareous, lignitic (till)-----	133	140

129-062-22AAB
 Test hole 5140
 (Log from Naplin, 1973)

Altitude: 1377 feet

Date drilled: 8/27/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, slightly sandy, black-----	2	2
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	13	15
	Clay, silty, slightly sandy, pebbly, occasionally interbedded with thin lenses of poorly sorted, fine to coarse, carbonate gravel, olive-gray, moderately cohesive to cohesive, moderately plastic, calcareous (till)-----	85	100
	Clay, silty, moderately sandy, a few cobbles, interbedded occasionally with medium to coarse, unsorted, carbonate gravel, olive-gray, moderately cohesive, slightly to moderately plastic, calcareous (till)-----	222	322
Niobrara Formation:			
	Shale, moderately siliceous, light-olive-gray to medium-gray, very calcareous, indurated, numerous white specks, laminated-----	18	340

129-062-22BAA
 Test hole 5139
 (Log from Naplin, 1973)

Altitude: 1378 feet		Date drilled: 8/27/68	
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, slightly sandy, clayey, brownish-black-----	1	1
	Clay, sandy, silty, pebbly, moderate-yellowish-brown to dark-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	12	13
	Clay, slightly sandy, silty, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	25	38
	Sand, fine to very coarse grained, angular to rounded, moderately well sorted, approximately 50-60 percent shale and 40-50 percent quartz, small percent carbonates-----	4	42
	Clay, slightly sandy, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	10	52
	Sand, fine- to coarse-grained, angular to subrounded, fair sorting, mostly shale, some quartz, lignite and carbonates-----	3	55
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	100	155
	Gravel, interbedded with clay, fine to medium, angular to subrounded, poorly sorted, mostly carbonates, some granitics and shale-----	2	157
	Clay, silty, slightly gravelly, sandy, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	23	180

129-062-280CD
 Test hole 5145
 (Log from Naplin, 1973)

Altitude: 1382 feet Date drilled: 8/28/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, pebbly, clayey, brownish-black-----	1	1
	Clay, silty, sandy, gravelly, dusky-yellow to moderate-yellowish-brown, slightly to moderately cohesive, plastic, oxidized (till)-----	1	2
	Gravel, sandy (approximately 25-35 percent medium to very coarse grained, angular to subrounded sand), fine to coarse, angular to subrounded, poorly sorted, interbedded with very silty clay, mostly carbonates and granitics, oxidized-----	8	10
	Clay, silty, slightly to moderately sandy, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	65	75
Pierre Formation:			
	Shale, grayish-brown to dusky-brown, occasional moderate-brown concretions, indurated, noncalcareous, a few white specks-----	25	100

129-062-29CCC
 Test hole 5146
 (Log from Naplin, 1973)

Altitude: 1409 feet Date drilled: 8/28/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, clayey, black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	17	18
	Sand, very fine to medium-grained, subrounded, fair sorting, mostly quartz, some shale-----	5	23
	Clay, silty, slightly sandy, occasional pebbles, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	68	91
Pierre Formation:			
	Shale, grayish-black, indurated, thinly interbedded with layers of light-olive-gray bentonitic shale, occasional thin yellowish-gray limestone concretions-----	29	120

129-063-02AAA
 Test hole 5115
 (Log from Naplin, 1973)

Altitude: 1450 feet

Date drilled: 8/20/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, slightly sandy, silty, clayey, brownish-black-----	1	1
	Clay, slightly sandy, silty, clayey, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	14	15
	Clay, silty, pebbly, olive-gray, cohesive, plastic to moderately plastic, calcareous (till)-----	81	96
	Gravel, slightly sandy, fine to coarse, angular to subrounded, fair sorting, mostly carbonates, some shale and granitics-----	1	97
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately plastic, cohesive, calcareous (till)-----	5	102
	Gravel, fine to coarse, angular to subrounded, fair sorting, mostly carbonates, some shale and granitics-----	2	104
	Clay, silty, pebbly, olive-gray to medium-dark-gray, cohesive, moderately plastic, calcareous (till)-----	12	116
Pierre Formation:			
	Shale, slightly siliceous, medium-dark-gray to grayish-black, moderately indurated, non-calcareous, occasional thin light-olive-gray bentonitic laminae-----	24	140

129-063-02DDA1
 (Log from Albrecht Well Work)

Date drilled: 11/06/72

Glacial drift:			
	Topsoil, black-----	2	2
	Clay, silty, yellow-----	11	13
	Clay, blue, fine stones-----	21	34
	Sand, fine to coarse-----	4	38
	Clay, blue, mixed, coarse stones-----	6	44

129-063-02DDA2
 Test hole 1175
 (Log from Naplin, 1973)

Altitude: 1450 feet

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Clay, yellow, fine to coarse gravel (till)-----	16	16
	Clay, sandy, gray (till)-----	10	26
	Clay, gray, fine to medium gravel, lignitic (till)-----	44	70
	Clay, gray, fine to medium shale pebbles, lignitic (till)-----	23	93
	Sand, fine to coarse, some lignite-----	5	98
	Clay, gravelly, pebbly, gray (till)-----	33	131
Pierre Formation:			
	Shale-----	9	140

129-063-10DAB
 Test hole 1174
 (Log from Naplin, 1973)

Altitude: 1462 feet

Date drilled: 7/18/57

Glacial drift:			
	Clay, brown-----	5	5
	Clay, gravelly, yellow (till)-----	11	16
	Clay, gravelly, pebbly, gray (till)-----	10	26
	Sand, fine to coarse-----	2	28
	Clay, sandy, gravelly, pebbly, gray (till)-----	42	70
	Clay, gravelly, pebbly, gray (till)-----	23	93
Pierre Formation:			
	Shale-----	17	110

129-063-11ADD
 Test hole 1173
 (Log from Naplin, 1973)

Altitude: 1454 feet

Date drilled: 7/16/57

Glacial drift:			
	Topsoil, black-----	2	2
	Clay, gravelly, yellow (till)-----	9	11
	Clay, blue-----	3	14
	Sand, gravelly, coarse, mostly shale, some lignite-----	5	19
	Clay, gravelly, pebbly, gray (till)-----	71	90

129-063-11DAA
 Test hole 1167
 (Log from Naplin, 1973)

Altitude: 1454 feet Date drilled: 7/09/57

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Earthfill-----	3	3
	Clay, yellow-----	8	11
	Clay, gravelly, yellow (till)-----	6	17
	Clay, gravelly, pebbly, gray (till)-----	4	21
	Sand, gravelly, fine- to medium- grained-----	9	30
	Clay, gravelly, pebbly, gray (till)-----	13	43
	Gravel, fine to medium, mostly shale-----	3	46
	Clay, gravelly, pebbly, lignitic, gray (till)-----	32	78
	Gravel, fine to coarse, lignitic-----	2	80
	Clay, gravelly, lignitic, gray (till)-----	39	119
Pierre Formation:			
	Shale-----	11	130

129-063-11DCA
 Test hole 1168
 (Log from Naplin, 1973)

Altitude: 1443 feet Date drilled: 7/12/57

Glacial drift:			
	Topsoil, black-----	2	2
	Clay, gravelly, yellow (till)-----	9	11
	Gravel, sandy, fine to coarse-----	13	24
	Clay, gravelly, gray (till)-----	37	61
	Gravel, fine to coarse, lignitic-----	4	65
	Clay, gravelly, pebbly, lignitic, gray (till)-----	48	113
Pierre Formation:			
	Shale-----	7	120

129-063-12CAD
 Test hole 1166
 (Log from Naplin, 1973)

Altitude: 1453 feet Date drilled: 7/09/57

Glacial drift:			
	Topsoil, black-----	3	3
	Clay, gravelly, yellow (till)-----	16	19
	Clay, gravelly, pebbly, gray (till)-----	10	29
	Sand, gravelly, fine- to coarse- grained, some shale-----	19	48
	Clay, gravelly, pebbly, lignitic, gray (till)-----	52	100
	Gravel, sandy, fine to medium-----	5	105
	Clay, gravelly, gray (till)-----	22	127
	Sand, fine- to medium-grained-----	3	130
	Clay, gravelly, lignitic, gray (till)-----	11	141
Pierre Formation:			
	Shale-----	19	160

129-063-12CCC
 Test hole 1169
 (Log from Naplin, 1973)

Altitude: 1451 feet	Date drilled: 7/13/57		
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, gravelly, yellow-----	22	22
	Gravel, fine to coarse-----	2	24
	Clay, gravelly, gray (till)-----	27	51
	Sand, fine- to coarse-grained, abundant shale-----	4	55
	Clay, gravelly, pebbly, gray (till)-----	70	125
Pierre Formation:			
	Shale-----	5	130

129-063-12DBC
 Test hole 750-1
 (Log from Naplin, 1973)

Altitude: 1450 feet	Date drilled: 5/25/64		
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, black-----	1	1
	Clay, silty, sandy, brownish-yellow, moderately cohesive, slightly plastic, oxidized (till)-----	18	19
	Clay, silty, sandy, pebbly, dark- olive-gray, moderately cohesive, slightly plastic (till)-----	20	39
	Sand, gravelly, very coarse grained, subangular, moderately well sorted, mostly limestone and granitics, small percent shale and lignite-----	18	57
	Clay, very silty, olive-gray, slightly cohesive, poor samples (till)-----	50	107
	Gravel, coarse, subrounded, poor samples-----	1	108
	Clay, silty, olive-gray, poor samples (till)-----	15	123
	Sand, very coarse grained, poor samples-----	1	124
	Clay, silty, olive-gray, poor samples (till)-----	2	126
	Clay, silty, olive-gray, lignitic (till)-----	3	129
	Clay, silty, sandy, olive-gray, calcareous (till)-----	17	146
	Sand, coarse-grained, subangular, moderately well sorted, mostly limestone and granitics-----	2	148
Pierre Formation:			
	Shale, very slightly silty, dark- gray, slightly cohesive, very slightly calcareous-----	12	160

129-063-13AAD
 Test hole 5132
 (Log from Naplin, 1973)

Altitude: 1416 feet

Date drilled: 8/22/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, black-----	1	1
	Clay, silty, moderately sandy, pebbly, moderate-yellowish-brown, moderately cohesive, moderately oxidized (till)-----	4	5
	Gravel, a few cobbles, very silty, clayey, fine to coarse, angular to subrounded, poorly sorted, mostly carbonates and light colored, very small percent shale, oxidized-----	3	8
	Clay, slightly sandy, pebbly, olive- gray, moderately cohesive to cohesive, plastic (till)-----	12	20
	Sand, silty, very fine to coarse- grained, subangular to subrounded, moderately well sorted, mostly quartz, some shale and carbonates-----	2	22
	Clay, silty, sandy, occasional pebbles, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	10	32
	Gravel, slightly sandy, fine to coarse, angular to rounded, poorly sorted, mostly carbonates, some light-colored granitics and shale, small percent lignite-----	3	35
	Clay, slightly sandy, silty, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	13	48
	Sand, silty, clayey, very fine to medium-grained, subangular, moderately well sorted, mostly quartz and carbonates-----	4	52
	Clay, silty, sandy, pebbly, olive- gray, moderately cohesive, moderately plastic, calcareous (till)-----	8	60

129-063-13ADD1
 Test hole 5130
 (Log from Naplin, 1973)

Altitude: 1411 feet Date drilled: 8/22/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, slightly sandy, clayey, brownish-black-----	1	1
	Clay, moderately sandy, silty, pebbly, moderate-yellowish-brown to dark-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	7	8
	Clay, slightly sandy, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	15	23
	Sand, very fine to coarse-grained, angular to rounded, moderately well sorted, approximately 50-60 percent shale, remainder quartz and carbonates-----	3	26
	Clay, moderately sandy, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	6	32
	Gravel, sandy (approximately 30-40 percent medium to very coarse grained, angular to subrounded sand), fine to medium, angular to subrounded, moderately well sorted, approximately 60-70 percent shale, remainder carbonates and light-colored granitics-----	7	39
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive, plastic, calcareous (till)-----	21	60

129-063-13ADD2
 Test hole 5124
 (Log from Naplin, 1973)

Altitude: 1410 feet Date drilled: 8/22/68

Glacial drift:			
	Topsoil, silty, sandy, black-----	1	1
	Clay, slightly sandy, silty, pebbly, moderate-yellowish-brown to dark-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	2	3
	Sand, very fine to medium-grained, angular to subrounded, well-sorted, approximately 70-80 percent quartz, remainder shale, carbonates and lignite, oxidized to 12 feet-----	14	17
	Gravel, sandy, fine to medium, subangular to subrounded, mostly shale and carbonates, some light-colored granitics-----	3	20
	Clay, silty, pebbly, olive-gray, cohesive, plastic (till)-----	20	40

129-063-13BCC
 Test hole 1170
 (Log from Naplin, 1973)

Altitude:	1453 feet	Date drilled:	7/15/57
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, black-----	2	2
	Clay, yellow-----	14	16
	Clay, gravelly, lignitic, olive-gray (till)-----	107	123
Pierre Formation:			
	Shale-----	7	130

129-063-13DAA
 Test hole 5129
 (Log from Naplin, 1973)

Altitude:	1412 feet	Date drilled:	8/22/68
Glacial drift:			
	Topsoil, silty, clayey, black-----	1	1
	Clay, very silty, slightly sandy, pebbly, moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	2	3
	Gravel, slightly sandy, silty, fine to medium, poorly sorted, angular to subrounded, mostly carbonates, some shale and granitics, oxidized-----	4	7
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	53	60

129-063-13DAB
 Test hole 5133
 (Log from Naplin, 1973)

Altitude: 1415 feet Date drilled: 8/23/68

<u>Geclogic</u> <u>source</u>	<u>Material</u>	<u>Thickness</u> <u>(feet)</u>	<u>Depth</u> <u>(feet)</u>
Glacial drift:			
	Topsoil, silty, slightly sandy, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate- yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	13	14
	Clay, silty, pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	4	18
	Sand, very slightly gravelly, fine to very coarse grained, angular to subrounded, moderately well sorted, approximately 50-60 percent shale, remainder carbonates and light-colored granitics-----	4	22
	Clay, slightly to moderately sandy, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	4	26
	Sand, slightly gravelly, fine to very coarse grained, angular to subrounded, moderately well sorted, approximately 40-50 percent shale, remainder carbonates and light-colored granitics, small percent lignite, occasional clay lenses lower 5-6 feet of section-----	13	39
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately plastic, calcareous (till)-----	21	60

129-063-13DAC
 Test hole 5134
 (Log from Naplin, 1973)

Altitude: 1413 feet Date drilled: 8/23/68

Glacial drift:			
	Topsoil, silty, slightly sandy, black-----	1	1
	Clay, silty, slightly sandy, moderate-yellowish-brown to dusky-yellow, slightly to moderately cohesive, plastic, oxidized (till)-----	2	3
	Gravel, silty, slightly clayey, slightly sandy, fine to coarse, angular to subrounded, poorly sorted, mostly carbonates, small percent granitics, oxidized-----	16	19
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive, plastic, calcareous (till)-----	13	32
	Sand, very fine to medium- grained, angular to subrounded, moderately well sorted, mostly quartz and shale-----	4	36
	Clay, silty, pebbly, olive-gray, cohesive, plastic, calcareous (till)-----	24	60

129-063-13DAD
 Test hole 5128
 (Log from Naplin, 1973)

Altitude: 1414 feet Date drilled: 8/22/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, slightly sandy, black-----	1	1
	Clay, silty, slightly sandy, pebbly, moderate-yellowish-brown to dark-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	11	12
	Clay, silty, very slightly sandy, pebbly, olive-gray, moderately cohesive to cohesive, moderately plastic, calcareous (till)-----	48	60

129-063-13DCC
 Test hole 1172
 (Log from Naplin, 1973)

Altitude: 1434 feet Date drilled: 7/16/57

Glacial drift:			
	Topsoil, black-----	1	1
	Clay, gravelly, yellow (till)-----	2	3
	Sand, coarse, gravelly-----	14	17
	Clay, gravelly, gray (till)-----	6	23
	Gravel, fine to medium, approximately 2/3 shale-----	7	30
	Clay, gravelly, gray, lignitic (till)-----	66	96
Pierre Formation:			
	Shale-----	4	100

129-063-13DDA
 Test hole 5127
 (Log from Naplin, 1973)

Altitude: 1412 feet Date drilled: 8/22/68

Glacial drift:			
	Topsoil, sandy, silty, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, moderate-yellowish-brown to dark-yellowish-brown, moderately cohesive, moderately plastic, calcareous, oxidized (till)-----	9	10
	Clay, silty, very slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	13	23
	Sand, very slightly gravelly, medium- to coarse-grained, subangular to subrounded, fair sorting, approximately 50-60 percent shale, remainder quartz and carbonates-----	4	27
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	33	60

129-063-13DDB
 Test hole 5135
 (Log from Naplin, 1973)

Altitude: 1412 feet Date drilled: 8/23/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, slightly sandy, black-----	1	1
	Gravel, silty, clayey, fine to coarse, poorly sorted, angular to subangular, mostly carbonates and granitics, oxidized-----	6	7
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	14	21
	Sand, very fine to fine-grained, subangular to subrounded, moderately well sorted, mostly quartz and shale, lignitic-----	3	24
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	36	60

129-063-13DDC
 Test hole 5126
 (Log from Naplin, 1973)

Altitude: 1412 feet Date drilled: 8/22/68

Glacial drift:			
	Topsoil, sandy, silty, black-----	1	1
	Clay, silty, slightly to moderately sandy, pebbly, moderate-yellowish-brown to dark-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	3	4
	Clay, silty, very slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	76	80
	Gravel, very slightly sandy, fine to coarse, angular to subrounded, moderately well sorted, mostly carbonates, some shale, granitics and lignite-----	3	83
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	20	103
Pierre Formation:			
	Shale, medium-dark-gray to grayish-black, indurated, noncalcareous, nonfractured, occasional thin light-olive-gray bentonitic laminae-----	17	120

129-063-14BAA
 Test hole 5153
 (Log from Naplin, 1973)

Altitude: 1440 feet Date drilled: 9/03/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	7	8
	Sand, slightly gravelly, medium to very coarse grained, angular to subrounded, poorly sorted, mostly quartz and shale, some carbonates, lignitic-----	4	12
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	28	40

129-063-24ABA
 Test hole 5171
 (Log from Naplin, 1973)

Altitude: 1416 feet Date drilled: 9/04/68

Glacial drift:			
	Topsoil, silty, slightly sandy, clayey, black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	6	7
	Sand, very fine to medium-grained, angular to subrounded, moderately well sorted, mostly quartz, some carbonates, oxidized-----	3	10
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	30	40

129-063-24ABD
 Test hole 5157
 (Log from Naplin, 1973)

Altitude: 1416 feet Date drilled: 9/03/68

Glacial drift:			
	Topsoil, silty, clayey, brownish-black-----	1	1
	Clay, silty, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	9	10
	Gravel, slightly sandy, silty, fine to coarse, angular to subangular, poorly sorted, mostly light-colored granitics and carbonates, oxidized-----	2	12
	Clay, silty, very slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	28	40

129-063-24ACD
 Test hole 5156
 (Log from Naplin, 1973)

Altitude: 1422 feet Date drilled: 9/03/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, pebbly, dark-yellowish-brown-----	1	1
	Clay, silty, very slightly sandy, pebbly, gravelly from 7-9 feet, dusky-yellow to moderate-yellowish-brown, slightly to moderately cohesive, moderately plastic, oxidized (till)-----	13	14
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	6	20
	Gravel, slightly sandy, fine to coarse, angular to subrounded, poorly sorted, mostly carbonates and shale, some lignite-----	8	28
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	12	40

129-063-24BBB
 Test hole 1171
 (Log from Naplin, 1973)

Altitude: 1458 feet Date drilled: 7/15/57

Glacial drift:			
	Clay, yellow-----	14	14
	Clay, gravelly, lignitic, brown (till)-----	8	22
	Clay, gravelly, a few boulders, gray (till)-----	103	125
Pierre Formation:			
	Shale-----	5	130

129-063-24BDD
 Test hole 5170
 (Log from Naplin, 1973)

Altitude: 1425 feet

Date drilled: 9/04/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, slightly sandy, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, numerous cobbles, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	14	15
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	6	21
	Gravel, sandy (approximately 20-30 percent medium to very coarse grained, angular to subrounded sand), fine to coarse, angular to subrounded, fair sorting, mostly carbonates and shale, some light-colored granitics-----	8	29
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	10	39
	Sand, slightly gravelly, medium to very coarse grained, angular to subrounded, fair sorting, predominantly shale, some carbonates-----	6	45
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	15	60

129-063-24CAA
 Test hole 5169
 (Log from Naplin, 1973)

Altitude: 1415 feet

Date drilled: 9/04/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, slightly sandy, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, slightly to moderately cohesive, moderately plastic, oxidized (till)-----	7	8
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	5	13
	Sand, slightly gravelly, medium to coarse-grained, angular to subrounded, poorly sorted, mostly granitics, quartz and carbonates-----	2	15
	Clay, silty, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	23	38
	Sand, fine- to medium-grained, subangular, fair sorting, mostly shale and quartz, poor samples-----	1	39
	Clay, silty, pebbly, olive-gray, moderately cohesive, plastic, calcareous (till)-----	1	40

129-063-24CAD
 Test hole 5168
 (Log from Naplin, 1973)

Altitude: 1416 feet Date drilled: 9/04/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, sandy, silty, pebbly, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, slightly to moderately cohesive, semiplastic, oxidized (till)----	3	4
	Gravel, silty, clayey, fine to coarse, angular, poorly sorted, oxidized, predominantly carbonates and light-colored granitics-----	2	6
	Clay, silty, pebbly, dark-yellowish-brown to olive-gray, moderately cohesive, moderately plastic, cohesive, partially oxidized (till)-----	2	8
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, cohesive (till)-----	17	25
	Sand, slightly gravelly, medium to very coarse grained, angular to subrounded, moderately well sorted, mostly carbonates and shale, some light-colored granitics and lignite-----	2	27
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	13	40

129-063-24CDA1
 Test hole 5166
 (Log from Naplin, 1973)

Altitude: 1415 feet Date drilled: 9/04/68

Glacial drift:			
	Topsoil, silty, clayey, slightly sandy, black-----	1	1
	Gravel, silty, clayey, slightly sandy, fine to coarse, angular to subangular, fair sorting, mostly carbonates and light-colored granitics, some shale, oxidized-----	8	9
	Sand, very fine to coarse-grained, angular to subrounded, well-sorted, approximately 75-85 percent quartz, remainder shale, carbonates and lignite-----	14	23
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	17	40

129-063-24CDA2
 Test hole 5167
 (Log from Naplin, 1973)

Altitude: 1413 feet

Date drilled: 9/04/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, sandy, black-----	1	1
	Clay, silty, very slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	3	4
	Gravel, slightly sandy, silty, fine to coarse, angular to subrounded, poorly sorted, oxidized, predominantly carbonates and light-colored granitics, small percent shale-----	5	9
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	31	40

129-063-24CDD
 Test hole D. H. 19
 (Log from Naplin, 1973)

Altitude: 1414 feet

Glacial drift:			
	Topsoil-----	1	1
	Clay, white-----	2	3
	Clay, reddish-yellow-----	3	6
	Sand, gravelly-----	4	10
	Sand, fine-grained, gray-----	9	19
	Clay, gravelly, gray (till)-----	7	26

129-063-240BB
 Test hole 5155
 (Log from Naplin, 1973)

Altitude: 1418 feet Date drilled: 9/03/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, pebbly, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	4	5
	Gravel, clayey, silty, fine to coarse, angular to subangular, poorly sorted, mostly granitics and carbonates, oxidized-----	1	6
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	6	12
	Sand, slightly to moderately silty, very fine to medium-grained, angular to subrounded, moderately well sorted, approximately 50-60 percent quartz, remainder mostly shale, small percent carbonates-----	11	23
	Clay, silty, pebbly, olive-gray, cohesive, plastic (till)-----	3	26
	Sand, medium to very coarse grained, angular to subangular, fair sorting, mostly carbonates and quartz, some shale-----	3	29
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	11	40

129-063-24DCB
 Test hole 5154
 (Log from Naplin, 1973)

Altitude: 1420 feet Date drilled: 9/03/68

Glacial drift:			
	Topsoil, silty, clayey, black-----	1	1
	Clay, silty, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	5	6
	Gravel, slightly sandy, silty, fine to coarse, angular to subrounded, poorly sorted, mostly granitics and carbonates, some shale, oxidized-----	2	8
	Clay, silty, pebbly, olive-gray, cohesive to moderately cohesive, moderately plastic, calcareous (till)-----	32	40

129-063-24DCC
 Test hole D. H. 15
 (Log from Naplin, 1973)

Altitude: 1412 feet

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	1	1
	Clay, white-----	1	2
	Clay, yellow-----	1	3
	Sand and gravel-----	11	14
	Clay, gravelly, gray (till)-----	10	24

129-063-27CDC
 Test hole 5178
 (Log from Naplin, 1973)

Altitude: 1450 feet

Date drilled: 9/05/68

Glacial drift:			
	Topsoil, silty, slightly sandy, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	10	11
	Clay, silty, pebbly, olive-gray, cohesive, plastic to moderately plastic, calcareous (till)-----	94	105
	Clay, very silty, light-olive-gray to brownish-gray to olive-gray, slightly cohesive, slightly plastic, calcareous, thinly laminated (glaciofluvial sediment)-----	20	125
Pierre Formation:			
	Shale, medium-dark-gray to grayish-black, indurated, noncalcareous, nonfractured, occasional light-olive-gray bentonitic laminations-----	15	140

129-063-27DDD
 Test hole 5177
 (Log from Naplin, 1973)

Altitude: 1432 feet

Date drilled: 9/05/68

Glacial drift:			
	Topsoil, silty, slightly sandy, pebbly, brownish-black-----	1	1
	Gravel, silty, slightly sandy, fine to coarse, angular to subangular, fair sorting, mostly carbonates and light-colored granitics, some shale, oxidized-----	7	8
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	62	70
Pierre Formation:			
	Shale, slightly siliceous, medium-dark-gray to grayish-black, indurated, noncalcareous, nonfractured-----	10	80

129-064-11CAA
(Log from Albrecht Well Work)

Date drilled: 7/13/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, black-----	2	2
	Sand and clay, mixed-----	10	12
	Sand-----	2	14
	Sand and gravel-----	3	17
	Sand and clay, mixed-----	1	18
	Clay, blue, stones-----	3	21

129-064-23BBA
NDSWC 9158

Altitude: 1463 feet

Date drilled: 10/09/74

Glacial drift:			
	Sand, medium, silty, moderate-brown, oxidized; grains are composed of 60 percent shale, 35 percent quartz, and 5 percent igneous, carbonate, and detrital lignite grains-----	5	5
	Sand, medium to coarse, dark-gray to gray, well-sorted; grains are composed of about 60 percent shale, 35 percent quartz, 4 percent igneous and carbonate, and 1 percent lignite grains-----	15	20
	Gravel; 98 percent angular to rounded shale pebbles-----	2	22
Pierre Formation:			
	Shale, dark-gray to moderate-dark-gray, siliceous, bentonitic-----	18	40

129-065-12CCC
NDSWC 9159

Altitude: 1568 feet

Date drilled: 10/09/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Loam, sandy, moderate-brown-----	1	1
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, soft, oxidized (till)-----	9	10
	Clay, silty, sandy, pebbly, dark-gray-----	2	12
Pierre Formation:			
	Shale, dark-gray, siliceous, brittle to soft, fractured-----	28	40

129-065-15BAD
(Log from Albrecht Well Work)

Altitude: 1610 feet

Date drilled: 4/25/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, black-----	3	3
	Clay, silty, yellow; fine sand layer at 17 feet-----	16	19
	Clay, yellow and blue, mixed-----	4	23
	Clay, blue, stones-----	4	27

129-065-35ADC
NDSWC 9511

Altitude: 1556 feet

Date drilled: 11/13/75

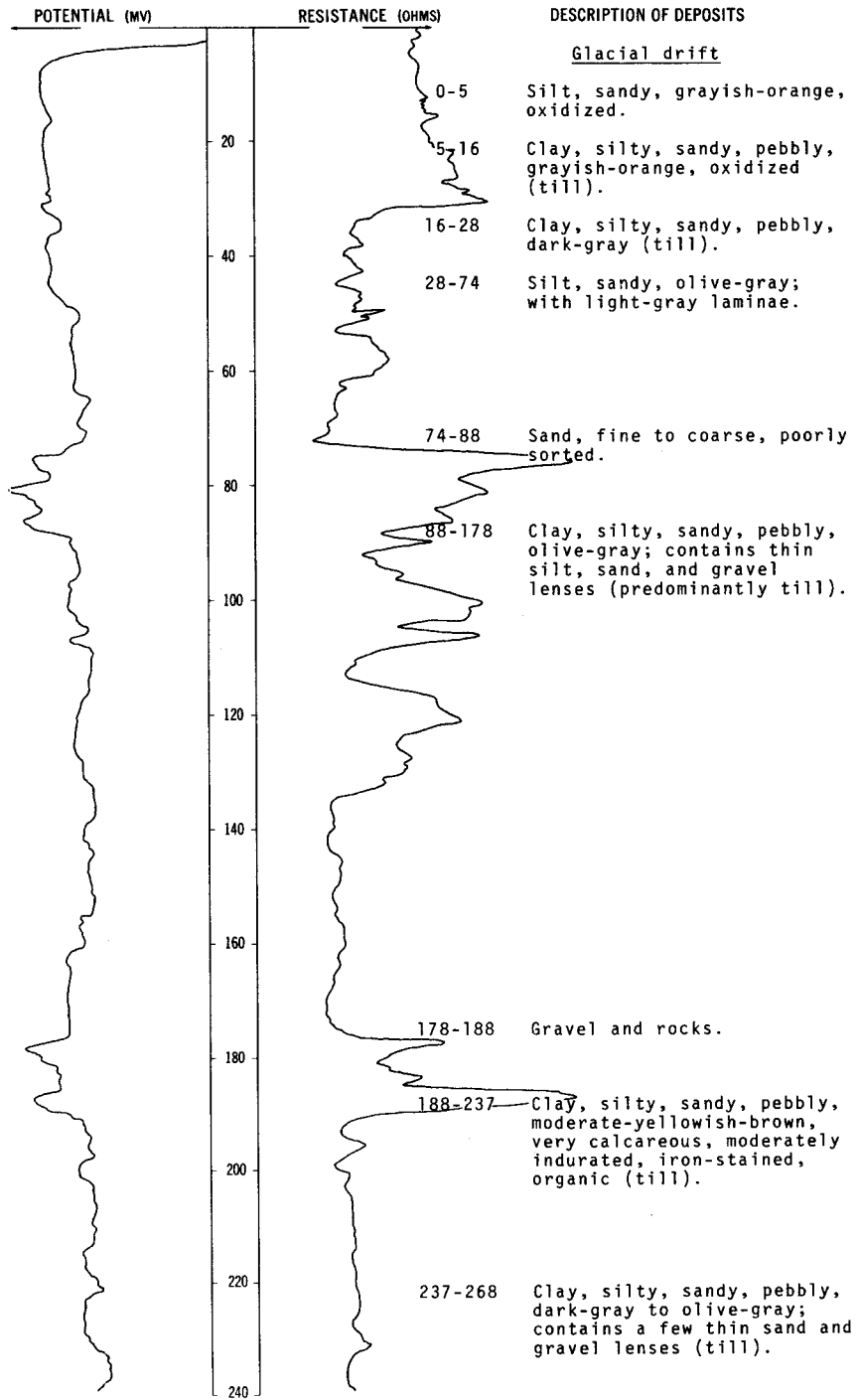
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, sandy, silty, pebbly, yellowish-brown, cohesive, slightly plastic (till)-----	8	8
Pierre Formation:			
	Shale, clayey, silty, black to grayish-black, noncalcareous, hard, tight, brittle-----	32	40

LOCATION: 129-066-10DDD

DATE DRILLED: 10/09/74

ALTITUDE: 2143
(FT, MSL)

DEPTH: 420
(FT)



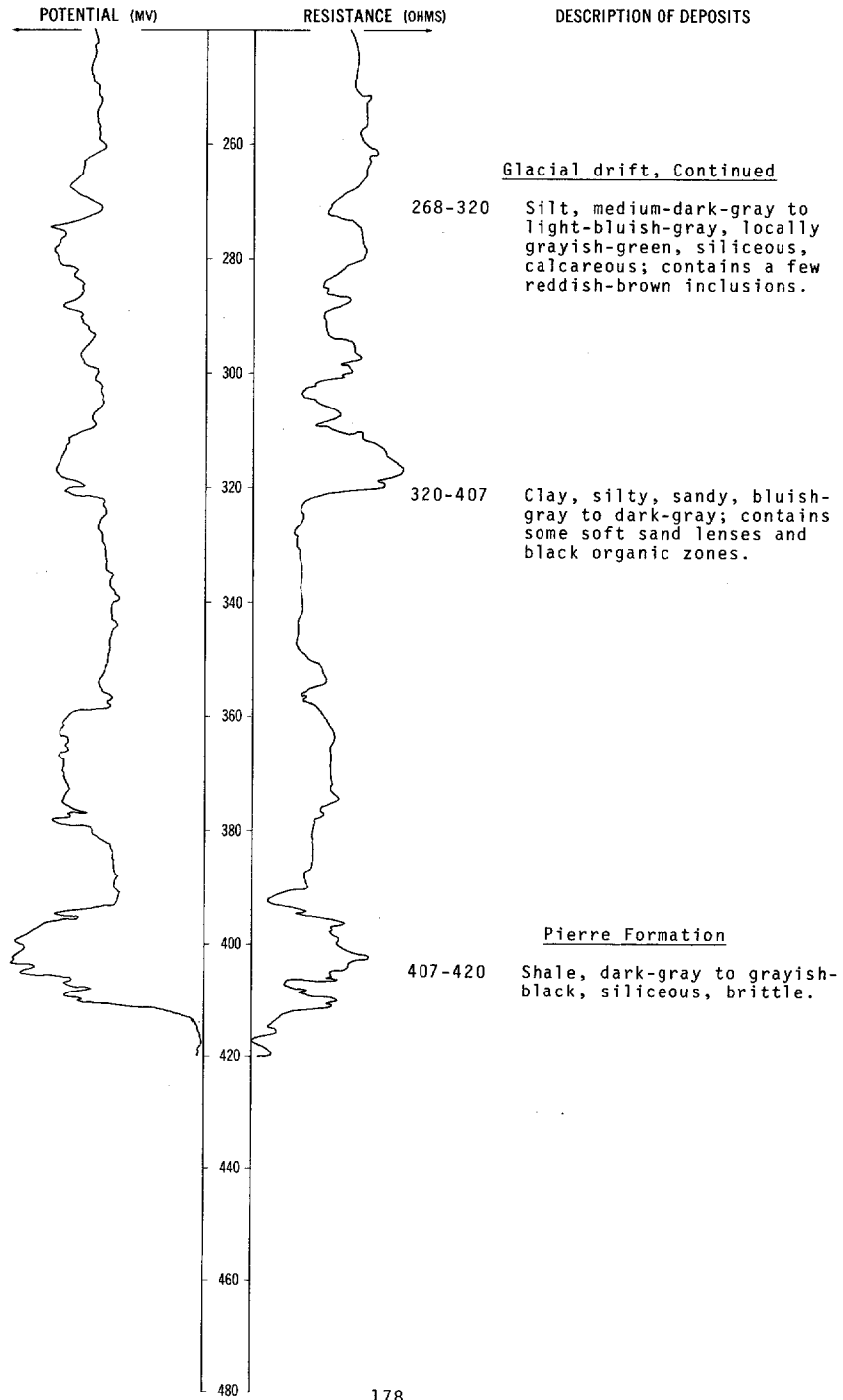
NDSWC 9161, Continued

LOCATION: 129-066-10DDD

DATE DRILLED: 10/09/74

ALTITUDE: 2143
(FT, MSL)

DEPTH: 420
(FT)



129-066-11DDA
(Log from Albrecht Well Work)

Altitude: 2165 feet

Date drilled: 12/06/74

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, black-----	2	2
	Sand and gravel-----	1	3
	Sand, fine-----	7	10
	Sand and clay-----	6	16
	Clay, black-----	2	18
	Sand-----	2	20
	Clay, blue-----	20	40

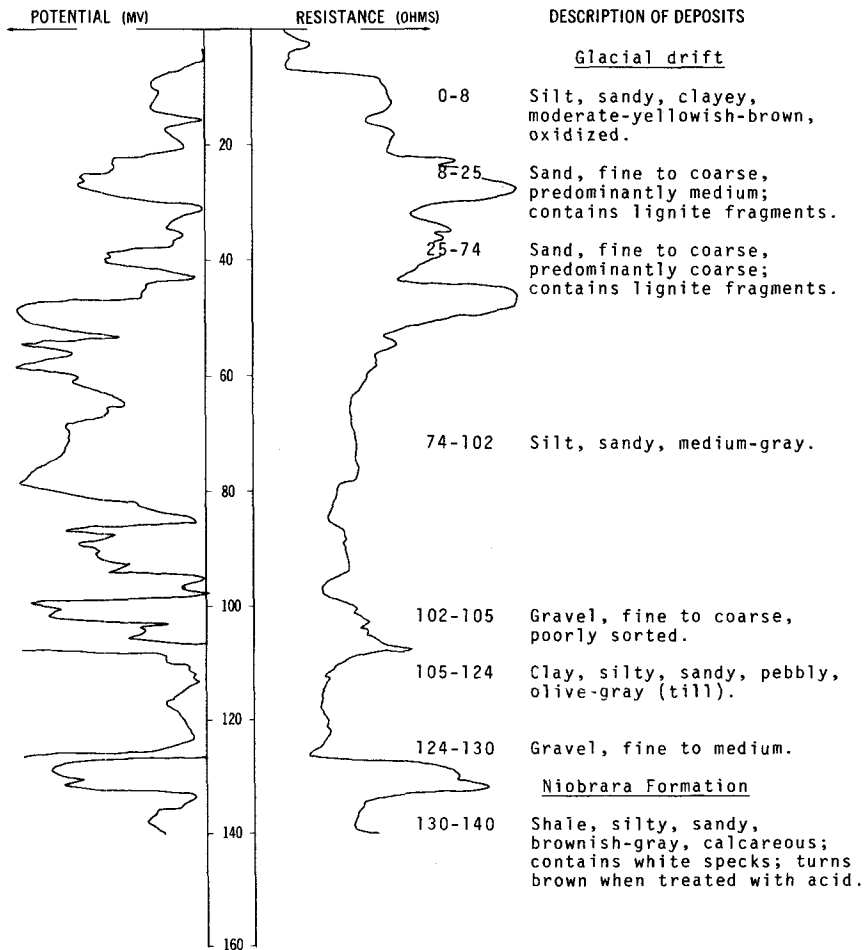
NDSWC 9425

LOCATION: 130-059-01BBC

DATE DRILLED: 8/26/75

ALTITUDE: 1308
(FT, MSL)

DEPTH: 140
(FT)



130-059-01DDD
USBR Oakes-31

Altitude: 1312 feet

Date drilled: 3/26/51

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	2	2
	Clay, silty, gray-----	6	8
	Sand, medium, gray, poorly sorted-----	22	30
	Sand and gravel, fine to coarse, gray, loose-----	10	40
	Sand, medium, lignite and shale particles, gray-----	4	44
	Silt, sandy, gray-----	1	45
	Gravel, medium to coarse sand, gray-----	14	59
	Clay, silty, sandy, gray (till)-----	6	65

130-059-02BBB
USBR Oakes-50

Altitude: 1315 feet

Date drilled: 3/03/52

Glacial drift:			
	Topsoil-----	1	1
	Sand, very fine, silty, buff-----	4	5
	Clay, silty, buff-----	2	7
	Sand, fine, buff-----	3	10
	Sand, fine to medium, gray, poorly sorted-----	7	17
	Clay, silty, gray-----	2	19
	Sand, fine to medium, gray, poorly sorted-----	6	25
	Sand, medium to coarse, brown, poorly sorted-----	7	32
	Sand, silty, clayey, gray, poorly sorted-----	3	35
	Silt, clayey, fine sand, gray-----	6	41
	Clay, silty, sandy, gravelly (till)-----	170	211
Pierre Formation:			
	Shale, silty, gray, firm-----	3	214

130-059-03CCA
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 11/05/74

Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	5	7
	Sand-----	32	39
	Clay-----	1	40

130-059-04ADD
 USBR Oakes-51

Altitude:	1313 feet	Date drilled:	2/28/52
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	1	1
	Clay, silty, buff, plastic-----	7	8
	Sand, medium to coarse, gravelly, gray, poorly sorted-----	10	18
	Silt, very fine, sandy, gray-----	2	20
	Sand, fine to medium, trace of clay, gray, poorly sorted-----	15	35
	Sand, medium, gray, poorly sorted-----	7	42
	Gravel, fine to medium, coarse, sandy, trace of clay, gray, poorly graded-----	5	47
	Clay, silty, sandy, gray (till)-----	4	51
	Sand, fine, silty, gray-----	14	65
	Clay (till)-----	65	130
	Silt and sand, fine, gray; few gravelly zones-----	107	237
Pierre Formation:			
	Shale, silty, gray-----	6	243

130-059-04DBD
 (Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 11/05/74

Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	13	15
	Sand-----	4	19
	Clay-----	8	27
	Sand-----	6	33
	Clay-----	--	33

130-059-04DDD
 USBR W-28

Altitude:	1311 feet	Date drilled:	6/10/66
	Loam, sandy-----	3	3
	Loam, silty-----	2	5
	Sand, loamy-----	10	15
	Sand-----	5	20

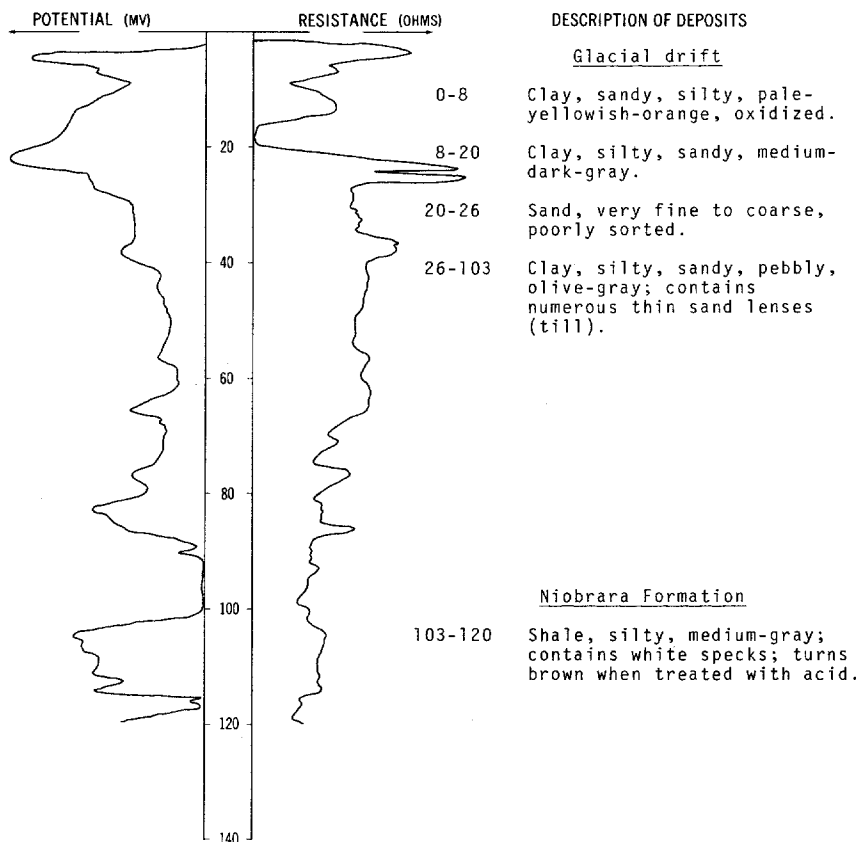
130-059-05ACA
 (Log from Farmer's Supply Co.)

Date drilled: 2/27/73

Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy, gray-----	5	7
	Clay, sandy, yellow-----	8	15
	Clay, gray-----	12	27
	Gravel, medium; with gray clay-----	10	37
	Clay, gray-----	5	42
	Clay, gray (till)-----	40	82

LOCATION: 130-059-05BAA
 ALTITUDE: 1297
 (FT, MSL)

DATE DRILLED: 8/26/75
 DEPTH: 120
 (FT)



130-059-05DDD
 USBR Oakes-9

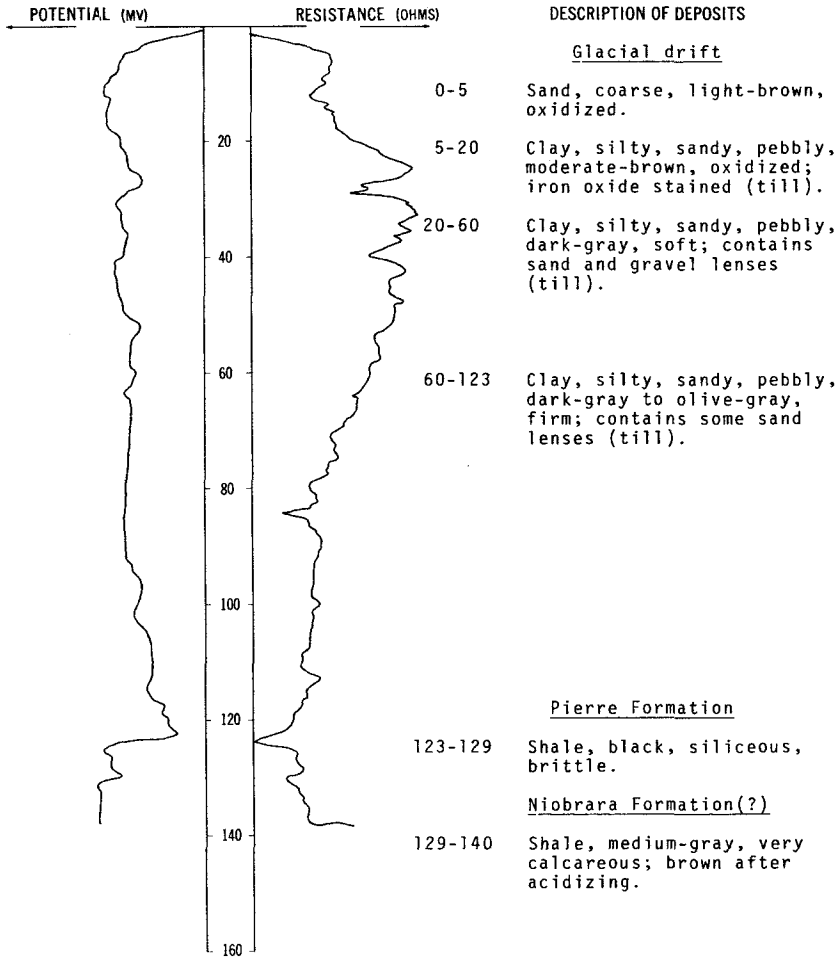
Altitude: 1303 feet

Date drilled: 1/11/51

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil-----	1	1
	Sand, fine, silty, small proportion of clay, buff-----	8	9
	Sand, medium, clean, gray, lignite particles-----	10	19
	Clay, silty, gray, plastic-----	3	22
	Clay, silty, sandy, gravelly, gray (till)-----	19	41
	Sand and gravel, silty, sandy, gray, shale particles-----	3	44
	Clay, silty, sandy, fine gravel, gray-----	2	46

LOCATION: 130-059-06CCC
 ALTITUDE: 1310
 (FT, MSL)

DATE DRILLED: 9/19/74
 DEPTH: 140
 (FT)



130-059-08AAA
 USBR W-27

Altitude: 1309 feet

Date drilled: 6/05/66

Geologic source	Material	Thickness (feet)	Depth (feet)
	Loam-----	2	2
	Loam, silty-----	1	3
	Clay, silty-----	4	7
	Loam, sandy-----	6	13

130-059-08ABB
USBR W-26

Altitude:	1304 feet	Date drilled:	6/01/66
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Loam, silty-----	2	2
	Clay, silty-----	1	3
	Loam, very fine, sandy-----	2	5
	Sand, very fine, loamy-----	4	9
	Sand, fine-----	5	14
	Clay (till)-----	6	20

130-059-09BBD
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/03/74

Glacial drift:			
	Topsoil-----	2	2
	Sand and gravel-----	23	25
	Till, gray-----	72	97
	Sand layers, gravel-----	13	110

130-059-09CAC2
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/16/74

Glacial drift:			
	Topsoil-----	2	2
	Sand and gravel-----	13	15
	Clay-----	20	35
	Sand-----	3	38
	Till, gray-----	11	49
	Gravel-----	8	57
	Clay-----	13	70

130-059-09CCC
USBR W-32

Altitude:	1311 feet	Date drilled:	7/01/66
	Loam, fine, sandy-----	2	2
	Sand, coarse-----	14	16
	Loam, silty-----	4	20

130-059-09DCC
USBR Oakes-44

Altitude:	1311 feet	Date drilled:	4/08/51
Glacial drift:			
	Topsoil-----	2	2
	Sand, fine, silty, small proportion of clay, buff-----	3	5
	Sand and gravel, medium sand, fine to medium gravel, brown, loose, clean-----	5	10
	Sand, medium, gravelly, gray, clean-----	17	27
	Clay, silty, sandy, fine gravel, gray (till)-----	10	37

130-059-09DDD
USBR W-33

Altitude:	1310 feet	Date drilled:	7/25/66
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Loam, fine, sandy-----	1	1
	Loam-----	3	4
	Loam, sandy-----	3	7
	Sand-----	8	15
	Shale and lignite-----	1	16
	Sand-----	1	17

130-059-10AAA
USBR W-29

Altitude:	1312 feet	Date drilled:	6/22/66
	Loam-----	2	2
	Clay-----	4	6
	Sand, coarse, loamy-----	3	9
	Sand-----	11	20

130-059-11BBB
USBR Oakes-29

Altitude:	1313 feet	Date drilled:	3/16/51
Glacial drift:	Topsoil-----	2	2
	Clay, silty, sandy, gray, iron-stained-----	7	9
	Sand, fine to medium, gray, clean, poorly sorted-----	23	32
	Silt, sandy, small proportion of clay, gray, loose-----	8	40
	Clay, silty, sandy, small proportion of fine gravel, gray-----	15	55

130-059-12BBB
USBR Oakes-30

Altitude:	1307 feet	Date drilled:	3/22/51
Glacial drift:	Topsoil-----	3	3
	Sand, medium, brown, poorly graded, loose-----	7	10
	Sand, medium, gray, poorly graded, clean-----	32	42
	Clay, silty, gray, plastic-----	22	64
	Clay, silty, sandy, gravelly, gray (till)-----	1	65

130-059-12DDD
USBR Oakes-1

Altitude: 1307 feet Date drilled: 12/07/50

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil-----	1	1
	Clay, silty, gray-----	4	5
	Sand, fine, silty, clayey, gray; lenses-----	11	16
	Sand, fine, gray, clean, loose-----	4	20
	Sand, fine, silty, gray-----	3	23
	Sand, fine, brown, clean, poorly sorted, loose-----	7	30
	Sand, fine, gray, loose, clean-----	5	35
	Sand, fine to medium, gray to white, clean, poorly graded, small amount of gravel and lignite-----	4	39
	Silt, clayey, gray, slightly plastic-----	22	61
	Clay, gray, pebbles and silt lenses, plastic-----	3	64
	Clay, gravelly, gray, firm-----	27	91
	Clay, gray, firm-----	17	108
	Clay, gravelly, gray, firm-----	7	115

130-059-13CBC1
USDA

Altitude: 1314 feet Date drilled: 10/04/73

	Sand, fine to medium, oxidized-----	7	7
	Sand, fine to medium, gray; contains fine to very coarse lignite chips-----	18	25
	Sand, fine, light-gray-----	5	30

130-059-13CBC2
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1313 feet Date drilled: 10/16/74

Glacial drift:			
	Topsoil-----	2	2
	Sand-----	13	15
	Sand, medium-----	9	24
	Sand, fine and medium-----	31	55
	Clay-----	--	55

130-059-13CBD1
USDA-1

Altitude: 1314 feet Date drilled: 10/03/73

	Soil, silty, sandy, clayey, black-----	1	1
	Sand, fine to medium, grayish-brown, well-sorted, oxidized-----	8	9
	Sand, medium, gray-----	2	11
	Sand, medium to coarse, predominantly coarse-----	6.5	17.5
	Sand, medium, gray-----	3.5	21
	Sand, medium to fine, gray-----	2	23
	Sand, fine to coarse, dirty, gray-----	7	30
	Sand, fine to medium, clayey, gray-----	5	35
	Sand, fine, clayey-----	13	48
	Sand, medium-----	2	50

130-059-13CBD2
USDA-2

Altitude: 1314 feet

Date drilled: 10/03/73

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Sand, medium to fine, brown, oxidized-----	5	5
	Sand, medium, brown, oxidized-----	4	9
	Sand, medium to fine-----	21	30
	Sand, fine-----	20	50

130-059-13CBD3
USDA-4

Altitude: 1314 feet

Date drilled: 10/04/73

	Soil, sandy, silty, black-----	.5	.5
	Sand, fine to medium, oxidized-----	7.5	8
	Sand, fine to medium, gray-----	5	13
	Sand, medium, gray-----	17	30
	Sand, fine to medium, some lignite-----	10	40
	Sand, medium, dirty-----	5	45
	Sand, fine to medium, predominantly medium-----	7	52
	Sand, fine to medium, dirty-----	2	54
	Clay, silty, gray-----	1	55

130-059-13CCC1
USBR W-43

Altitude: 1314 feet

Date drilled: 6/14/66

	Loam, fine, sandy-----	2	2
	Sand, fine, loamy-----	3	5
	Sand, fine-----	10	15

130-059-13CCC2
USDA-3

Altitude: 1314 feet

Date drilled: 10/03/73

	Sand, fine to medium, clayey, oxidized-----	6	6
	Sand, fine to medium, gray, dirty-----	7	13
	Sand, fine, silty, clayey-----	5	18
	Sand, medium to coarse, black to gray; has lignite and organic shale particles-----	5	23
	Sand, fine to medium, gray-----	2	25
	Sand, very fine, silty, light-gray-----	4	29
	Sand, fine to coarse, predominantly medium, gray to black-----	1	30

130-059-13DDD
USBR Oakes-2

Altitude: 1312 feet Date drilled: 12/11/50

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	1	1
	Sand, fine, silty, brown, loose-----	7	8
	Sand, fine, gray, clean-----	2	10
	Sand, clayey, gray; hard lignitic pebbles-----	5	15
	Sand, fine to medium, gray, clean, poorly sorted-----	19	34
	Sand, medium, fine gravel and shale particles, gray-----	6	40
	Clay, silty, gray, lightly compacted; fine sand lenses from 79-85 feet-----	45	85
	Sand, silty, gravelly, gray-----	16	101
	Sand and gravel, fine sand to medium gravel, clayey, gray-----	9	110

130-059-14AAC
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1311 feet Date drilled: 9/23/74

Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	3	5
	Sand, coarse-----	40	45
	Till, gray-----	92	137
	Rock, chalk-----	3	140

130-059-14DDD1
USBR Oakes-49

Altitude: 1315 feet Date drilled: 2/07/52

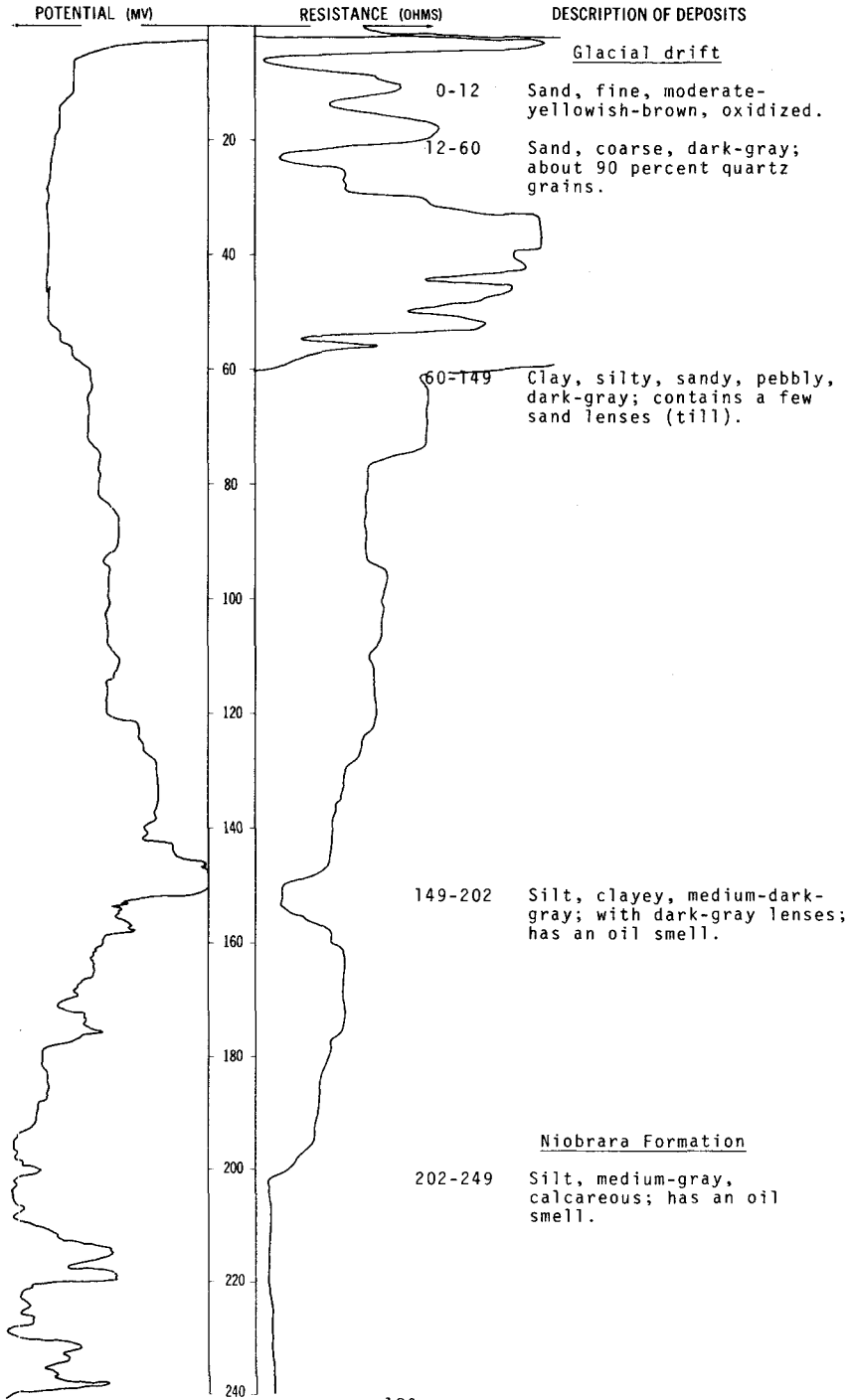
Glacial drift:			
	Topsoil-----	1	1
	Sand, fine to medium, silty, clayey, grayish-brown-----	11	12
	Sand, medium, clayey from 21 to 23 feet, gray, fairly clean-----	18	30
	Sand, fine, silty, clayey, gray, poorly sorted-----	5	35
	Sand, fine to medium, silty, gray, clean, poorly sorted-----	20	55
	Sand, fine to very fine, clayey, gray-----	8	63
	Clay, silty, gray, soft-----	7	70
	Clay, silty, sandy, few pebbles, gray (till)-----	5	75
	Sand, fine, silty, gray, small proportion of fine gravel and clay-----	7	82
	Clay (till)-----	75	157
	Sand, fine, very silty, gray-----	95	252
Pierre Formation:			
	Shale, silty, gray, plastic-----	11	263

LOCATION: 130-059-14DDD2

DATE DRILLED: 9/16/74

ALTITUDE: 1312
(FT, MSL)

DEPTH: 260
(FT)



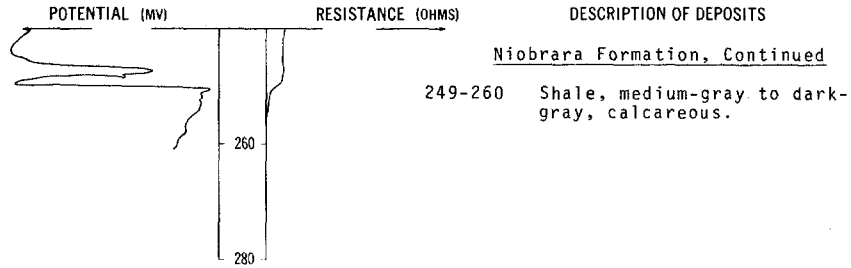
NDSWC 9106, Continued

LOCATION: 130-059-14DDD2

DATE DRILLED: 9/16/74

ALTITUDE: 1312
(FT, MSL)

DEPTH: 260
(FT)



130-059-15AAA
USBR W-34

Altitude: 1310 feet

Date drilled: 7/06/66

Geologic source	Material	Thickness (feet)	Depth (feet)
	Loam, very fine, sandy-----	3	3
	Sand, fine-----	7	10
	Sand-----	10	20

130-059-15ABC
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/09/74

Glacial drift:

Topsoil-----	2	2
Sand and gravel-----	28	30
Sand, medium-----	9	39
Clay-----	1	40

130-059-15BBC
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/03/74

Glacial drift:

Topsoil-----	2	2
Sand and gravel-----	32	34
Clay-----	6	40

130-059-15DCA
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/09/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	8	10
	Sand, fine-----	25	35
	Clay-----	5	40

130-059-16AAA1
USBR Oakes-47

Altitude: 1310 feet

Date drilled: 2/14/52

Glacial drift:			
	Topsoil-----	1	1
	Sand, fine to medium, silty, small proportion of clay, few pebbles, buff-----	9	10
	Sand, fine to medium, small proportion of clay, gray, lignite particles from 13 to 14 feet-----	15	25
	Clay, silty, sandy, few pebbles, gray (till)-----	22	47
	Sand, fine, very silty, gray, compacted-----	13	60
	Clay, silty, sandy, few pebbles, gray (till)-----	71	131
	Sand, fine, very silty, gray, compacted-----	92	223
Pierre Formation:			
	Shale, silty, gray, plastic when saturated-----	10	233

130-059-16AAB
(Log from Traut, Inc.)

Date drilled: 9/23/74

Glacial drift:			
	Sand, brown-----	15	15
	Sand, gray-----	10	25
	Silt, gray-----	5	30
	Clay, gray, hard-----	4	34
	Clay, gray, soft-----	8	42
	Clay, gray-----	18	60

130-059-16ACC
 USBR Oakes-46

Altitude: 1314 feet

Date drilled: 1/16/52

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	1	1
	Silt, clayey, small proportion of fine sand, buff-----	2	3
	Sand, fine to medium, small proportion of silt and fine gravel, buff-----	10	13
	Sand, fine to medium, gray, loose, fairly clean, poorly sorted, few small pebbles and lignite parts-----	14	27
	Silt, clayey, small proportion of fine sand, gray-----	3	30
	Clay, silty, sandy, gray, small pebbles and shale particles throughout, plastic-----	40	70
	Sand, medium, clayey, gray, small amount of fine gravel; sandy silt from 74 to 75 feet-----	5	75
	Clay (till)-----	5	80
	Sand, medium, clayey, gray, poorly sorted-----	5	85
	Clay (till)-----	10	95
	Gravel, medium, clayey, gray-----	2	97
	Silt, clayey, fine, some fine sand-----	8	105
	Clay (till)-----	21	126
	Clay, silty, gray, plastic when saturated-----	39	165
	Silt, clayey, gray, compacted, slightly plastic-----	61	226
Pierre Formation:			
	Shale, silty, gray, hard-----	22	248

130-059-16BAD
 USBR Oakes-45

Altitude: 1310 feet

Date drilled: 1/05/52

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, sandy, silty-----	3	3
	Silt, clayey, buff, slightly plastic-----	2	5
	Sand, fine to medium, silty, buff, loose, poorly sorted, small proportion of clay-----	11	16
	Sand, fine to medium, gray, loose, poorly sorted, clean, small proportion of fine gravel and lignite particles-----	19	35
	Sand, medium to coarse, gray, fairly clean, loose, small proportion of fine gravel-----	3	38
	Sand and gravel, medium sand and fine gravel, clayey, gray, heavy with lignite particles-----	2	40
	Clay, silty, sandy, gray, plastic, pebbles and shale particles-----	15	55
	Sand, fine to medium, gray, loose, poorly sorted, small proportion of clay-----	15	70
	Clay, silty, sandy, gray, plastic, pebbles and shale particles-----	28	98
	Silt, clayey, gray, slightly plastic-----	2	100
	Clay, silty, sandy, gray (till)-----	31	131
Pierre Formation:			
	Shale, silty, gray, hard-----	4	135

130-059-16CB
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/05/73

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil-----	2	2
	Sand and gravel-----	34	36
	Till-----	19	55
	Sand, fine-----	7	62
	Clay-----	3	65

130-059-16DDD4
USBR Oakes-48

Altitude: 1312 feet Date drilled: 2/07/52

Glacial drift:			
	Topsoil-----	2	2
	Sand, fine, buff, small proportion of silt, loose, well-sorted-----	8	10
	Sand, medium, gray, clean, loose, poorly sorted, few lignite particles and small pebbles-----	15	25
	Clay, silty, gray, compacted, very plastic when saturated-----	13	38
	Sand, medium, gray, loose, fairly clean, small proportion of fine gravel-----	2	40
	Clay (till)-----	95	135
Pierre Formation:			
	Shale, silty, gray, firm-----	1	136

130-059-17ACA
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/ /74

Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	3	5
	Sand, coarse-----	37	42
	Till, gray-----	--	42

130-059-17BAA
USBR Oakes-39

Altitude: 1300 feet Date drilled: 4/09/51

Glacial drift:			
	Topsoil-----	1	1
	Sand, fine to very fine, silty, buff to gray, loose, fairly clean-----	19	20
	Clay, fine, sandy, silty, gray, plastic-----	97	117
	Sand, medium, gray, clean, poorly sorted-----	3	120
	Clay, silty, gray, plastic-----	9	129
	Clay, silty, sandy, gravelly, gray-----	4	133

130-059-17DAA1
USBR Oakes-4

Altitude: 1315 feet Date drilled: 12/19/50

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Sand, fine, silty, buff, loose-----	5	5
	Sand, fine to medium, clayey, brown, small amount of fine gravel-----	8	13
	Sand, fine to medium, brown, clean, poorly sorted, loose-----	2	15
	Sand, fine to medium, lignitic, gray, gravel layer from 20 to 20.6 feet-----	10	25
	Sand, fine to medium, clayey, gray, small amount of fine gravel-----	2	27
	Clay, sandy, fine gravel throughout, gray, plastic (till)-----	3	30
	Silt and clay, clay and fine sand throughout, gray-----	7	37
	Clay, silty, fine gravel throughout, gray, plastic (till)-----	11	48
	Silt, sandy clay and fine sand seams throughout, gray, gravelly, silty clay from 53 to 55 feet-----	7	55
	Sand, fine to medium, brown, poorly sorted, fairly clean, small amount of fine gravel-----	4	59
	Silt, clayey, gray, thin sand lenses-----	5	64
	Clay, silty, gray, fine gravel throughout, plastic-----	8	72

130-059-17DDB
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1315 feet Date drilled: 5/31/72

Glacial drift:			
	Topsoil, sandy-----	2	2
	Till, sandy-----	5	7
	Sand, medium-----	17	24
	Clay, blue-----	1	25

130-059-18ABB
 USBR Oakes-40

Altitude: 1310 feet Date drilled: 4/09/51

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	1	1
	Clay, sandy, buff, slightly plastic-----	2	3
	Sand, fine, silty, clayey, brown-----	2	5
	Clay, silty, sandy, gravelly, gray (till)-----	20	25

130-059-18CAC
 (Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1305 feet Date drilled: 5/13/74

Glacial drift:			
	Topsoil-----	2	2
	Clay-----	3	5
	Gravel-----	5	10
	Till-----	85	95
	Sand, medium-----	8	103
	Clay-----	2	105
	Sand and gravel-----	53	158
	Clay-----	2	160

130-059-18CBC
 (Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 9/20/74

Glacial drift:			
	Topsoil-----	2	2
	Sand, fine-----	8	10
	Till, gray-----	52	62
	Sand-----	3	65
	Till, gray-----	75	140

130-059-18DAC
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/02/74

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil-----	2	2
	Clay-----	32	34
	Sand-----	2	36
	Till, gray-----	38	74
	Sand-----	3	77
	Till, gray-----	56	133
Niobrara Formation:			
	Shale-----	7	140

130-059-18DBC
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1300 feet

Date drilled: 5/13/74

Glacial drift:			
	Topsoil-----	2	2
	Clay-----	8	10
	Gravel-----	5	15
	Till, gray-----	35	50
	Sand, fine-----	4	54
	Till, gray-----	26	80
	Clay, sandy layers-----	50	130
	Sand-----	10	140
	Clay-----	10	150
	Sand and gravel-----	15	165
Niobrara Formation:			
	Shale-----	35	200

130-059-19ABD
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/02/74

Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	3	5
	Sand, fine-----	10	15
	Till, gray-----	35	50
	Gravel-----	5	55
	Till, gray-----	24	79
	Gravel-----	3	82
	Till, gray-----	28	110
Niobrara Formation:			
	Shale-----	10	120

130-059-19BAC
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/01/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	2	2
	Till, yellow-----	8	10
	Sand and gravel-----	5	15
	Till, gray-----	27	42
	Sand-----	3	45
	Till, gray-----	26	71
	Sand-----	3	74
	Till, gray-----	61	135
	Gravel-----	7	142
	Clay-----	18	160

130-059-19CBB
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/15/74

Glacial drift:			
	Clay, yellow-----	20	20
	Till, gray-----	55	75
	Sand-----	5	80
	Clay-----	5	85
	Sand-----	10	95

130-059-20AAA1
USBR Oakes-5

Altitude: 1311 feet

Date drilled: 12/20/50

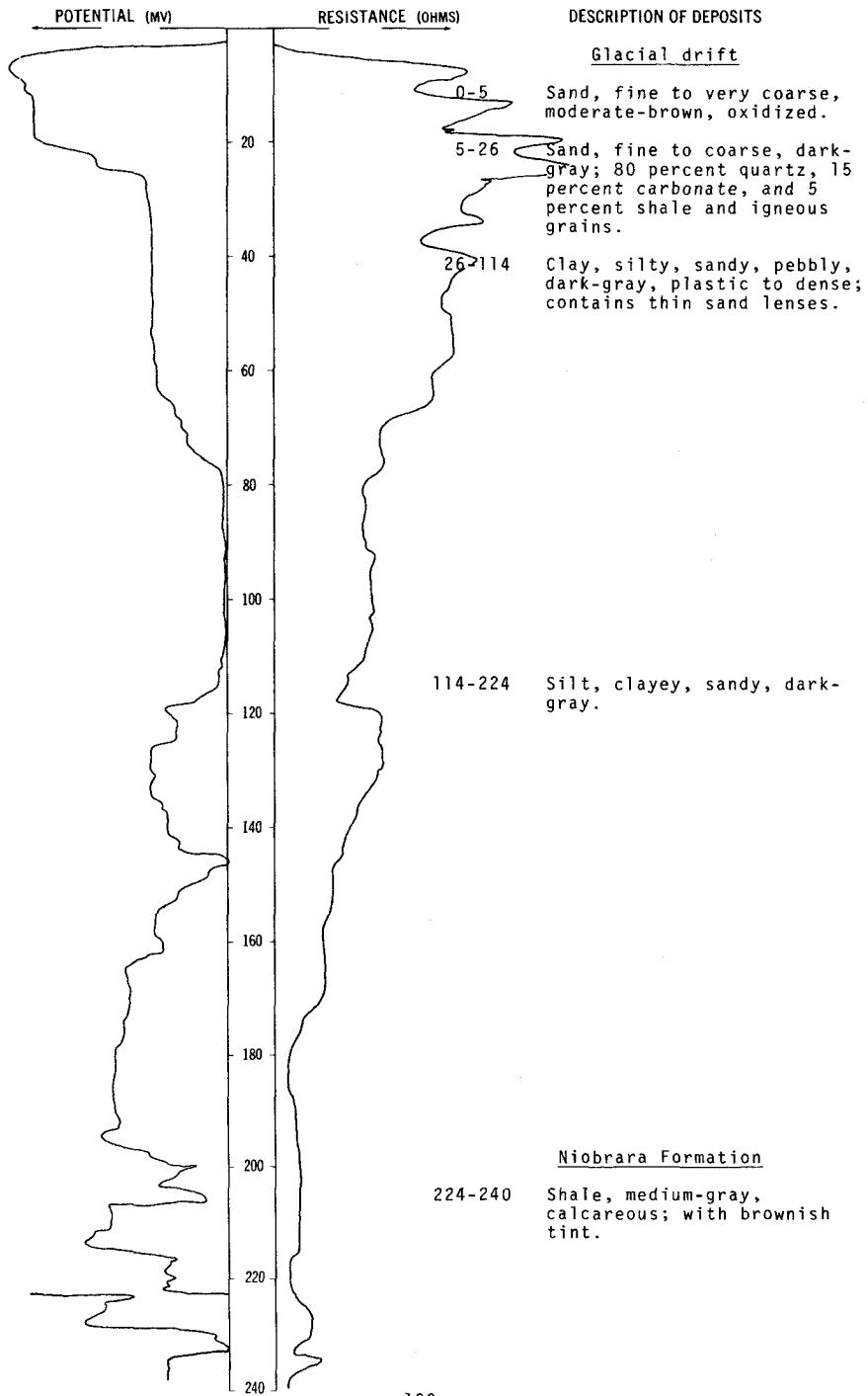
Glacial drift:			
	Topsoil-----	2	2
	Clay, silty, gray, plastic when saturated-----	5	7
	Sand, fine, silty, brown, loose-----	3	10
	Sand, fine to medium, brown, clean, loose-----	5	15
	Sand, medium, gray, small amount of clay, lignitic-----	6	21
	Clay, silty, gray, fine gravel throughout, plastic-----	12	33
	Silt, clayey, gray, laminated-----	2	35
	Sand, fine to medium, brown, fairly clean, poorly sorted-----	3	38
	Clay, silty, gravelly, gray, plastic-----	2	40
	Silt, clayey, gray, laminated-----	10	50
	Sand, fine to medium, brown, fairly clean, loose-----	2	52
	Clay, silty, sandy, gravelly, gray (till)-----	13	65

LOCATION: 130-059-20AAA2

DATE DRILLED: 9/16/74

ALTITUDE: 1310
(FT, MSL)

DEPTH: 240
(FT)



130-059-20BBB
USBR W-38

Altitude: 1297 feet Date drilled: 6/15/66

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Loam, silty-----	2	2
	Sand, fine, loamy-----	4	6
	Clay-----	2	8

130-059-20CCC
USBR W-50

Altitude: 1303 feet Date drilled: 6/15/66

	Loam-----	2	2
	Sand, very fine-----	8	10
	Sand, fine-----	7	17
	Loam, silty-----	1	18

130-059-20DDD
USBR Oakes-6

Altitude: 1307 feet Date drilled: 1/03/51

Glacial drift:			
	Topsoil, silt-----	3	3
	Silt, clayey, brown, compact-----	2	5
	Clay, silty, grayish-brown, very plastic-----	3	8
	Sand, medium, brown, loose, clean, iron staining-----	4	12
	Sand, medium, gray, small proportion of gravel and lignite, loose, clean-----	11	23
	Clay, silty, gray, laminated, compact, very plastic-----	2	25
	Clay, silty, gray, small proportion of fine gravel, very plastic (till)-----	4	29
	Sand, medium, gray, poorly sorted, loose, clean-----	6	35
	Clay, silty, gray, fine gravel throughout, sand and gravel lens from 55 to 55.6 feet, very plastic-----	25	60

130-059-21DDD
USBR W-52

Altitude: 1309 feet Date drilled: 7/ /66

	Loam, sandy-----	2	2
	Sand-----	5	7
	Sand, coarse, loamy-----	13	20

130-059-22BCA
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/09/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	8	10
	Sand-----	12	22
	Clay-----	18	40

130-059-23ACA
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1315 feet

Date drilled: 11/ /74

Glacial drift:			
	Topsoil, sand, loamy-----	2	2
	Sand, fine-----	33	35
	Sand, fine to medium-----	22	57

130-059-23BBB2
USBR Oakes-32

Altitude: 1310 feet

Date drilled: 3/30/51

Glacial drift:			
	Topsoil-----	1	1
	Sand, fine, buff, loose, fairly clean-----	10	11
	Sand, fine to medium, gray, loose, fairly clean, clay binder from 33 to 35 feet, sand and silt lens from 15 to 17 feet-----	24	35
	Silt, sandy, clayey, gray, compact-----	15	50
	Clay, silty, gray, plastic-----	13	63
	Clay, silty, sandy, gravelly, gray, slightly plastic (till)-----	2	65

130-059-23CCC
USBR W-53

Altitude: 1311 feet

Date drilled: 7/ /66

	Loam, fine, sandy-----	4	4
	Loam, sandy-----	2	6
	Sand, fine, loamy-----	6	12
	Sand, fine-----	8	20

130-059-23DDB
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1314 feet

Date drilled: 9/07/74

Glacial drift:			
	Topsoil-----	2	2
	Sand, medium-----	18	20
	Sand, fine-----	37	57

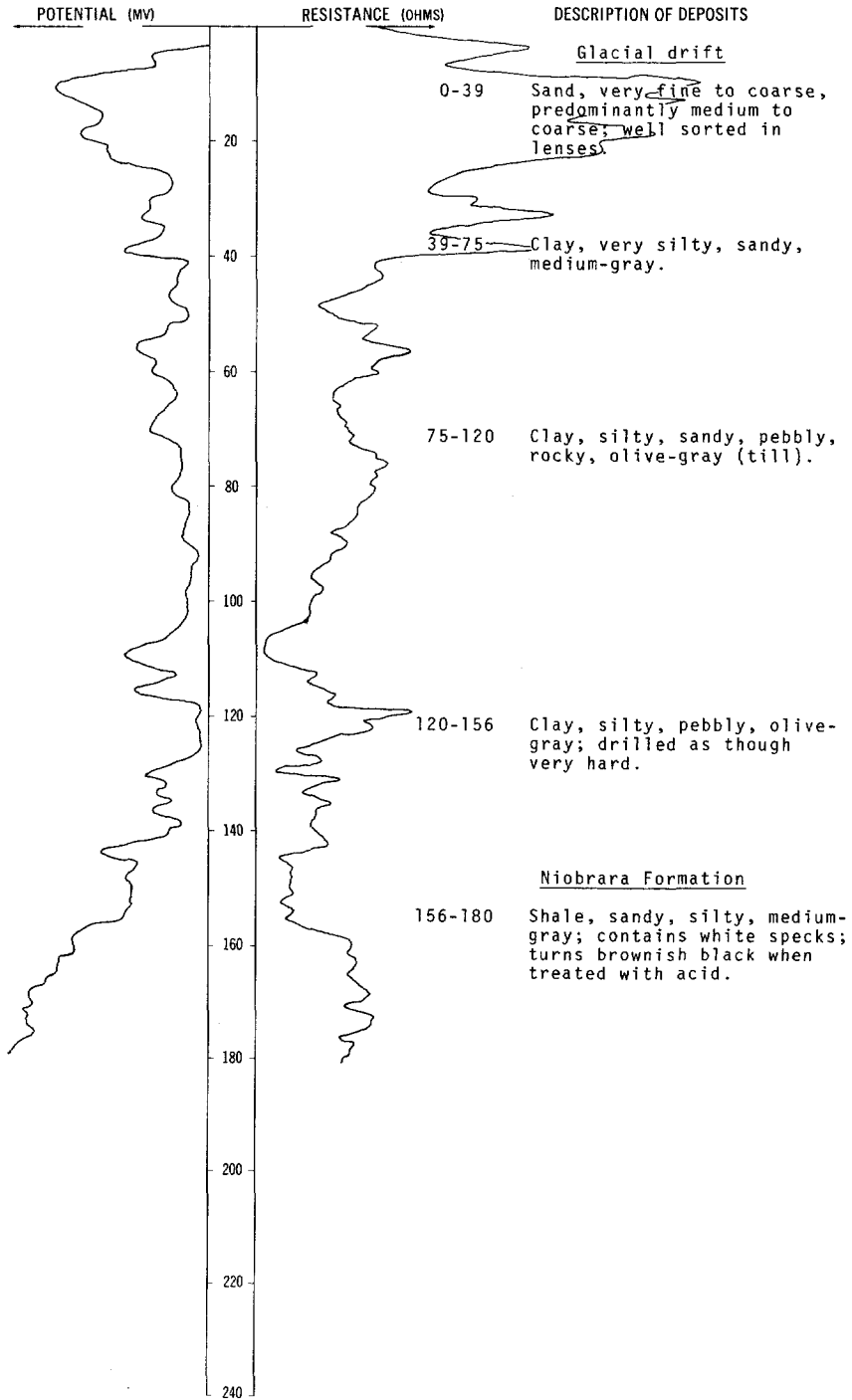
NDSWC 9427

LOCATION: 130-059-24AAA

DATE DRILLED: 8/26/75

ALTITUDE: 1310
(FT, MSL)

DEPTH: 180
(FT)

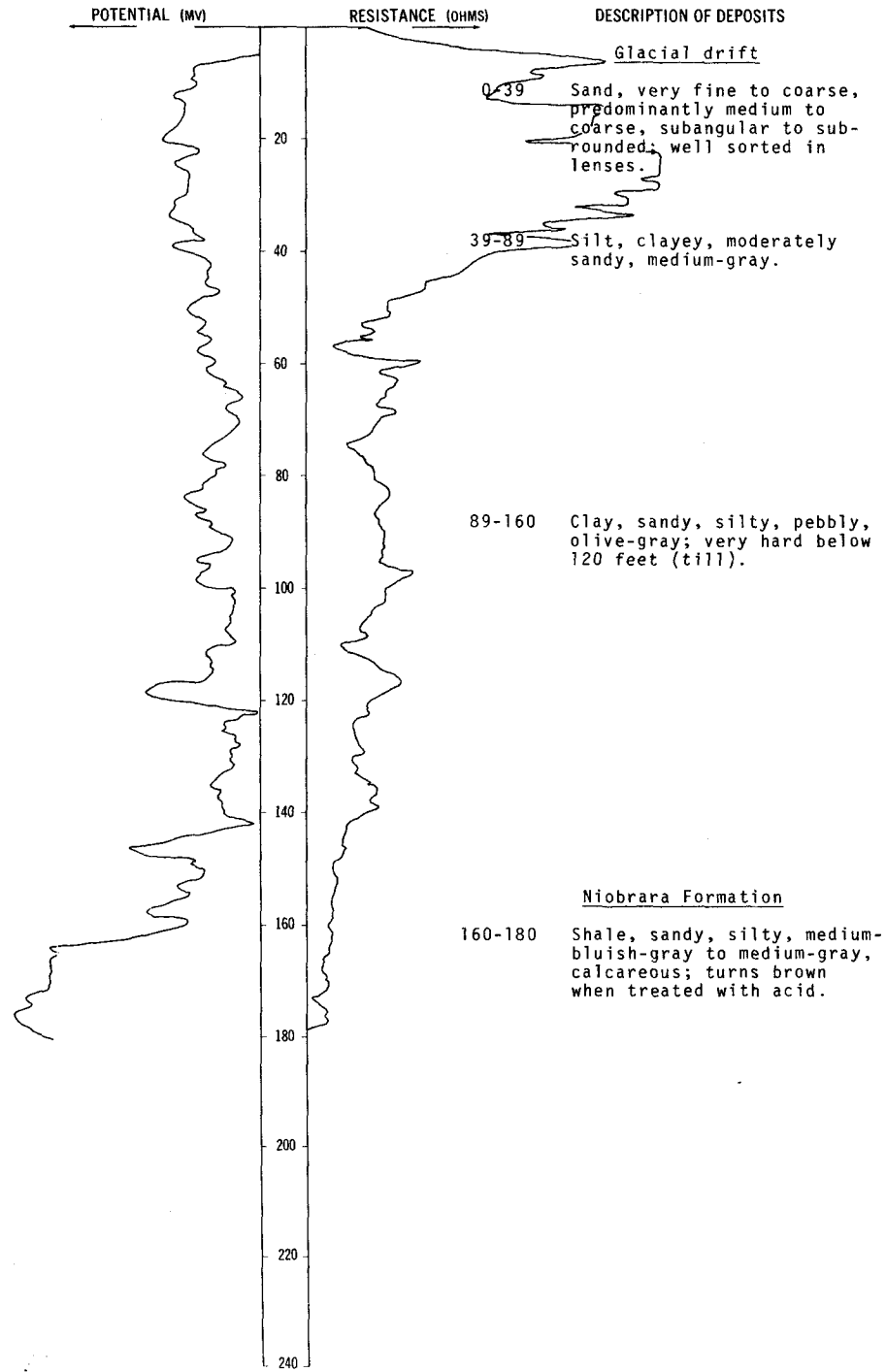


LOCATION: 130-059-24DDD1

DATE DRILLED: 8/27/75

ALTITUDE: 1311
(FT, MSL)

DEPTH: 180
(FT)



130-059-26BDB
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/04/74

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	8	10
	Sand, medium to fine-----	25	35
	Clay-----	--	35

130-059-26CCC
USB R W-60

Altitude: 1312 feet

Date drilled: 6/15/66

	Loam, fine, sandy-----	3	3
	Sand, fine, loamy-----	2	5
	Clay, sandy-----	2	7
	Sand, fine-----	7	14
	Sand, very fine, loamy-----	6	20

130-059-27DBD
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1309 feet

Date drilled: 9/18/74

Glacial drift:			
	Topsoil-----	2	2
	Sand, medium-----	18	20
	Sand, fine-----	21	41
	Till, gray-----	79	120
	Gravel-----	4	124
	Till, gray-----	16	140

130-059-27DDD
USB R Oakes-33

Altitude: 1310 feet

Date drilled: 3/29/51

Glacial drift:			
	Topsoil-----	1	1
	Sand, fine to medium, silty, gray, clay seam from 18 to 19 feet-----	19	20
	Silt, sandy, gray, small proportion of clay and lignite, moderately compact-----	7	27
	Sand, lignite particles, clayey, black, heavy with shale particles, plastic clay seam from 32.8 to 35 feet-----	12	39
	Clay, silty, gray, plastic-----	32	71
	Sand, medium, clayey, some fine gravel-----	7	78
	Clay, silty, sandy, gravelly, gray, slightly plastic-----	2	80

130-059-28AAA1
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/05/73

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil-----	2	2
	Clay-----	6	8
	Sand-----	14	22
	Clay-----	40	62
	Sand-----	4	66
	Clay-----	14	80

130-059-28ACA2
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1305 feet Date drilled: 2/26/76

	Topsoil-----	2	2
	Clay, sandy-----	2	4
	Sand, fine-----	6	10
	Sand, medium-----	17	27
	Clay-----	--	27

130-059-28ACD
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 2/26/76

	Topsoil-----	2	2
	Clay-----	2	4
	Sand, fine-----	11	15
	Sand, medium-----	15	30
	Clay-----	--	30

130-059-28BBB
USBW W-51

Altitude: 1306 feet Date drilled: 7/05/66

	Loam, sandy-----	2	2
	Clay, silty-----	6	8
	Sand-----	12	20

130-059-28CAC
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 2/26/76

	Topsoil-----	2	2
	Clay, sandy-----	2	4
	Sand, medium-----	21	25
	Sand-----	8	33
	Clay-----	--	33

130-059-28CAD1
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1307 feet Date drilled: 9/18/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	2	2
	Sand, medium to fine-----	32	34
	Clay-----	1	35

130-059-28CAD2
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1307 feet Date drilled: 6/28/75

	Soil-----	2	2
	Sand, medium to fine-----	31	33

130-059-28CAD3
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1307 feet Date drilled: 2/26/76

	Topsoil-----	2	2
	Sand-----	18	20
	Clay-----	10	30

130-059-28CCC
USBR W-58

Altitude: 1304 feet Date drilled: 7/01/66

	Loam, very fine, sandy-----	3	3
	Loam-----	2	5
	Sand, fine, loamy-----	2	7
	Sand, fine-----	3	10
	Sand, very fine, loamy-----	5	15

130-059-28CDA
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 2/26/76

	Topsoil-----	2	2
	Clay, sandy-----	1	3
	Sand-----	12	15
	Sand, medium-----	10	25
	Sand, fine; with shale pebbles-----	8	33
	Clay-----	--	33

130-059-28DAA2
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/05/73

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	2	2
	Clay-----	6	8
	Sand-----	14	22
	Clay-----	42	64
	Sand-----	2	66
	Clay-----	14	80
	Sand and gravel-----	3	83
	Clay-----	7	90

130-059-29AAB
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 11/06/74

Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	7	9
	Sand-----	15	24
	Clay-----	1	25

130-059-29ACB
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 11/06/74

Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	9	11
	Sand-----	19	30
	Clay-----	5	35

130-059-29CAC
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1306 feet Date drilled: 4/05/74

Glacial drift:			
	Topsoil-----	2	2
	Sand, fine-----	21	23
	Sand, medium-----	5	28
	Clay, silty-----	17	45
	Clay (till)-----	80	125
Niobrara Formation:			
	Shale-----	5	130

130-059-29CCC
USBR W-57

Altitude: 1306 feet Date drilled: 7/01/66

Geologic source	Material	Thickness (feet)	Depth (feet)
	Loam, very fine, sandy-----	3	3
	Loam-----	2	5
	Sand, very fine, loamy-----	13	18
	Sand, fine-----	2	20

130-059-29DDD
USBR Oakes-7

Altitude: 1304 feet Date drilled: 1/05/51

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Silt, sandy, some clay, buff-----	6	6
	Sand, fine to medium, some clay, lignite particles, brown-----	4	10
	Sand, fine to medium, some silt, gray-----	10	20
	Silt, some clay, gray, slightly plastic-----	10	30
	Clay, silty, gray, soft, plastic-----	10	40
	Clay, silty, gravelly, gray, plastic (till)-----	18	58
	Sand, medium, some gravel, brown, loose, clean-----	4	62
	Gravel, medium, much clay, shale pebbles, gray-----	6	68

130-059-30ACA
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/04/74

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil-----	2	2
	Sand, medium-----	18	20
	Sand-----	34	54
	Clay-----	6	60

130-059-31CDD
USBR W-63

Altitude: 1301 feet Date drilled: 6/15/66

Geologic source	Material	Thickness (feet)	Depth (feet)
	Loam, sandy-----	2	2
	Sand, loamy-----	6	8
	Loam, sandy-----	5	13

130-059-32DDD
 USBR Oakes-8

Altitude: 1304 feet

Date drilled: 1/10/51

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silt-----	1	1
	Sand, very fine, silty, clayey, buff-----	3	4
	Sand, medium, clay seams, buff, poorly sorted-----	5	9
	Sand, fine to medium, silty, gray, loose, silt lenses-----	13	22
	Silt, gray, compact, slightly plastic-----	3	25
	Sand, medium, shale particles, gray, loose, clean-----	2	27
	Silt, gray, compact, slightly plastic-----	4	31
	Clay, silty, gray, plastic, few silt streaks-----	30	61
	Clay, silt and fine sand, gravelly, gray, plastic (till)-----	7	68
	Silt, some fine sand and clay, gray, compact-----	6	74
	Clay, silty, gravelly, gray, plastic-----	6	80

130-059-33ABD1
 (Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 5/08/75

Soil-----	2	2
Clay, sandy-----	4	6
Sand, medium-----	24	30

130-059-34BBB
 USBR W-59

Altitude: 1308 feet

Date drilled: 6/15/66

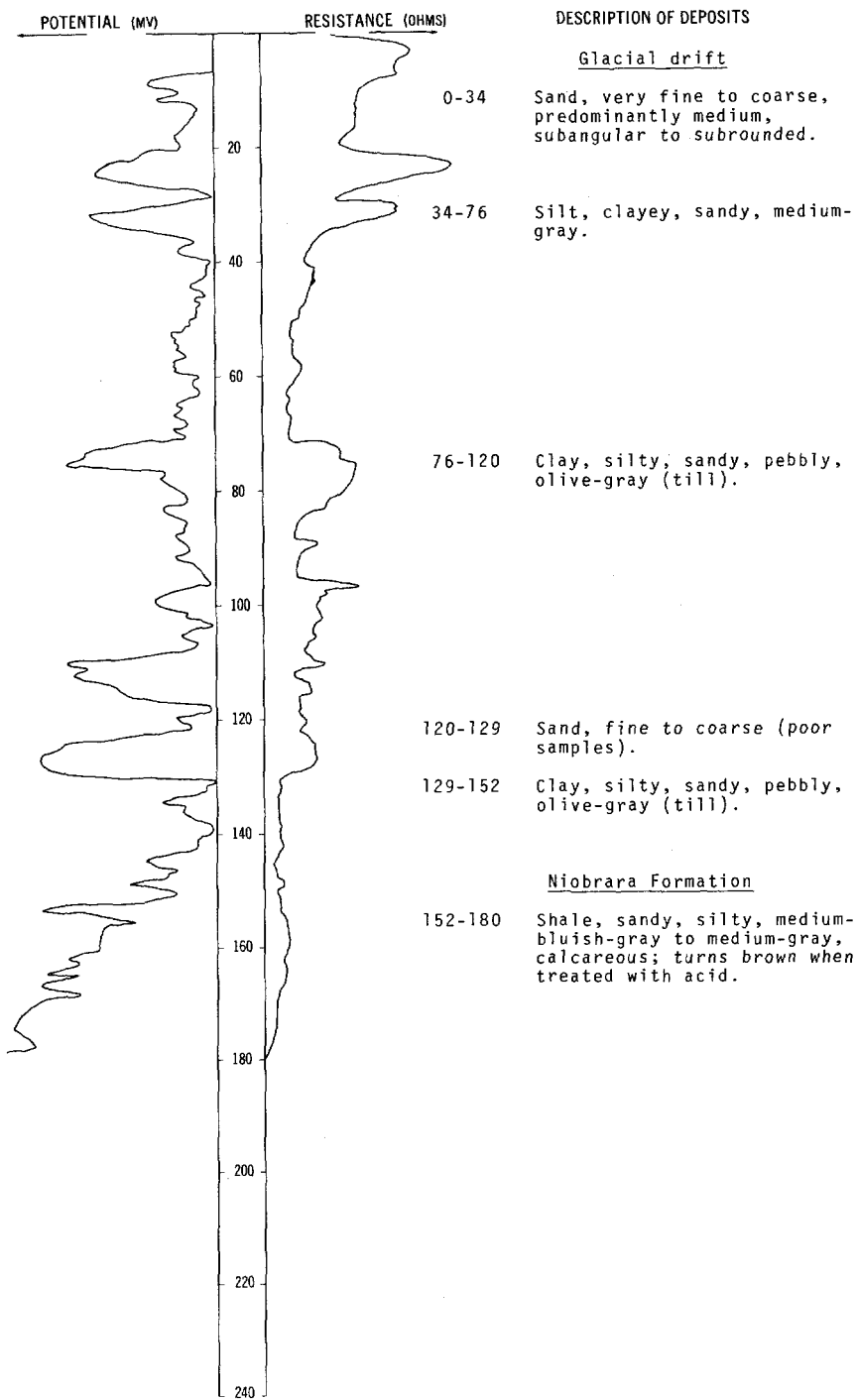
Loam-----	2	2
Sand, fine, loamy-----	2	4
Loam, fine, sandy-----	16	20

LOCATION: 130-059-35888

DATE DRILLED: 8/27/75

ALTITUDE: 1311
(FT, MSL)

DEPTH: 180
(FT)



130-059-35DBD
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/08/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	2	2
	Sand-----	23	25
	Clay-----	5	30

130-059-36AAA
USBR Oakes-34

Altitude: 1314 feet

Date drilled: 4/03/51

Glacial drift:			
	Topsoil-----	1	1
	Sand, fine to medium, gray, clean, iron-stained-----	14	15
	Silt, clayey, gray, slightly plastic, moderately compact-----	4	19
	Sand, fine to medium, some lignite slack, gray, poorly sorted-----	15	34
	Clay, silty, sandy, gray, plastic-----	52	86
	Sand, fine to medium, clayey, gray; some fine gravel-----	8	94
	Clay, silty, sandy, some gravel, gray, plastic (till)-----	1	95

130-059-36CCC
USBR Oakes-35

Altitude: 1311 feet

Date drilled: 4/02/51

Glacial drift:			
	Topsoil-----	2	2
	Sand, fine to medium, gray, poorly sorted, clean, loose, silt lenses-----	28	30
	Sand, fine, silty, gray, moderately compact-----	21	51
	Clay, silty, gray, very plastic-----	29	80
	Clay, silty, sandy, gray, slightly plastic (till)-----	10	90

130-060-11CBC
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1375 feet

Date drilled: 10/21/74

Glacial drift:			
	Topsoil-----	2	2
	Till, yellow-----	18	20
	Till, gray-----	70	90
	Sand-----	8	98
	Clay-----	--	98

130-060-128BB
USBR W-70

Altitude: 1307 feet Date drilled: 6/12/66

Geologic source	Material	Thickness (feet)	Depth (feet)
	Loam-----	1	1
	Loam, silty-----	15	16
	Loam, silty (till)-----	2	18

130-060-13CDD
(Log from Green Circle Supply Co.)

Date drilled: 2/24/75

Glacial drift:

Topsoil-----	2	2
Clay, tan, soft-----	1	3
Gravel, medium, brown, oxidized-----	3	6
Sand, medium, brown, clean; gravel, fine to medium-----	10	16
Till-----	13	29
Clay, sand, and gravel laminations (till)-----	9	38
Sand, fine, silty and clayey zones, lignite particles-----	5	43
Till, sandy, gravelly, lignite particles-----	6	49
Till, gray, rocky-----	4	53
Till, gravelly, sand laminations, gray-----	14	67
Sand, clayey, shale particles-----	6	73
Till, sand interbeds, gray-----	7	80

130-060-24ACA
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/02/74

Glacial drift:

Topsoil-----	2	2
Sand-----	8	10
Clay, yellow-----	5	15
Till, gray-----	25	40
Sand and gravel-----	22	62
Till, gray-----	18	80

130-060-25AAA
USBR W-49

Altitude: 1299 feet Date drilled: 7/ /66

Loam-----	2	2
Loam, sandy-----	1	3
Sand, very fine-----	1	4
Loam-----	1	5
Sand-----	4	9
Loam, silty-----	2	11
Loam, silty (till)-----	4	15

130-060-25BAC
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 9/17/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	8	10
	Sand, fine-----	12	22
	Silt-----	23	45
	Till, gray-----	23	68
	Gravel-----	5	73
	Till, gray-----	52	125
Niobrara Formation:			
	Shale-----	5	130

130-060-25DDD
USBR W-56

Altitude: 1292 feet	Date drilled: 6/15/66
Loam, silty-----	15 15

130-060-33AAC1
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1364 feet Date drilled: 9/17/74

Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	4	6
	Sand, medium-----	29	35
	Clay-----	--	35

130-061-07ACA
(Log from Traut, Inc.)

Date drilled: 9/24/74

Glacial drift:			
	Clay, brown-----	21	21
	Clay, gray-----	66	87
	Sand, fine, gray-----	28	115
	Clay, gray-----	5	120

130-061-11CDC
NDSWC 9831

Altitude: 1487 feet Date drilled: 11/04/76

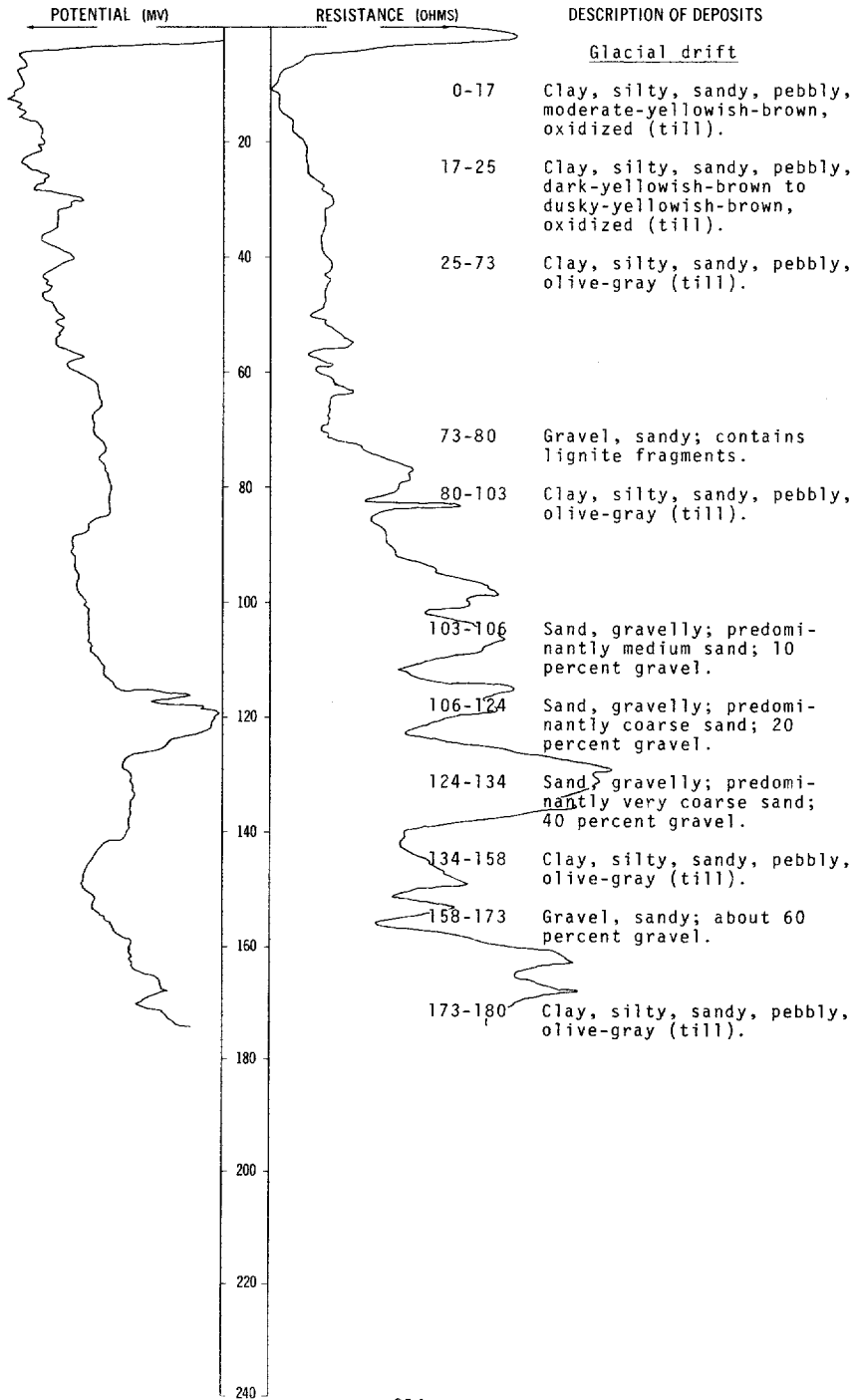
Glacial drift:			
	Soil-----	1	1
	Silt, sandy, clayey, moderate- yellowish-brown, oxidized-----	3	4
	Clay, silty, sandy, moderate- yellowish-brown, oxidized-----	2	6
	Clay, silty, sandy, pebbly, moderate- yellowish-brown, oxidized (till)-----	6	12
	Clay, silty, sandy, pebbly, olive- gray; contains boulders (till)-----	74	86
	Boulders and cobbles-----	4	90
	Clay, silty, sandy, pebbly, bouldery, olive-gray (till)-----	10	100

LOCATION: 130-061-11DCC1

DATE DRILLED: 11/05/76

ALTITUDE: 1397
(FT, MSL)

DEPTH: 180
(FT)



Altitude: 1397 feet

Date drilled: 11/08/76

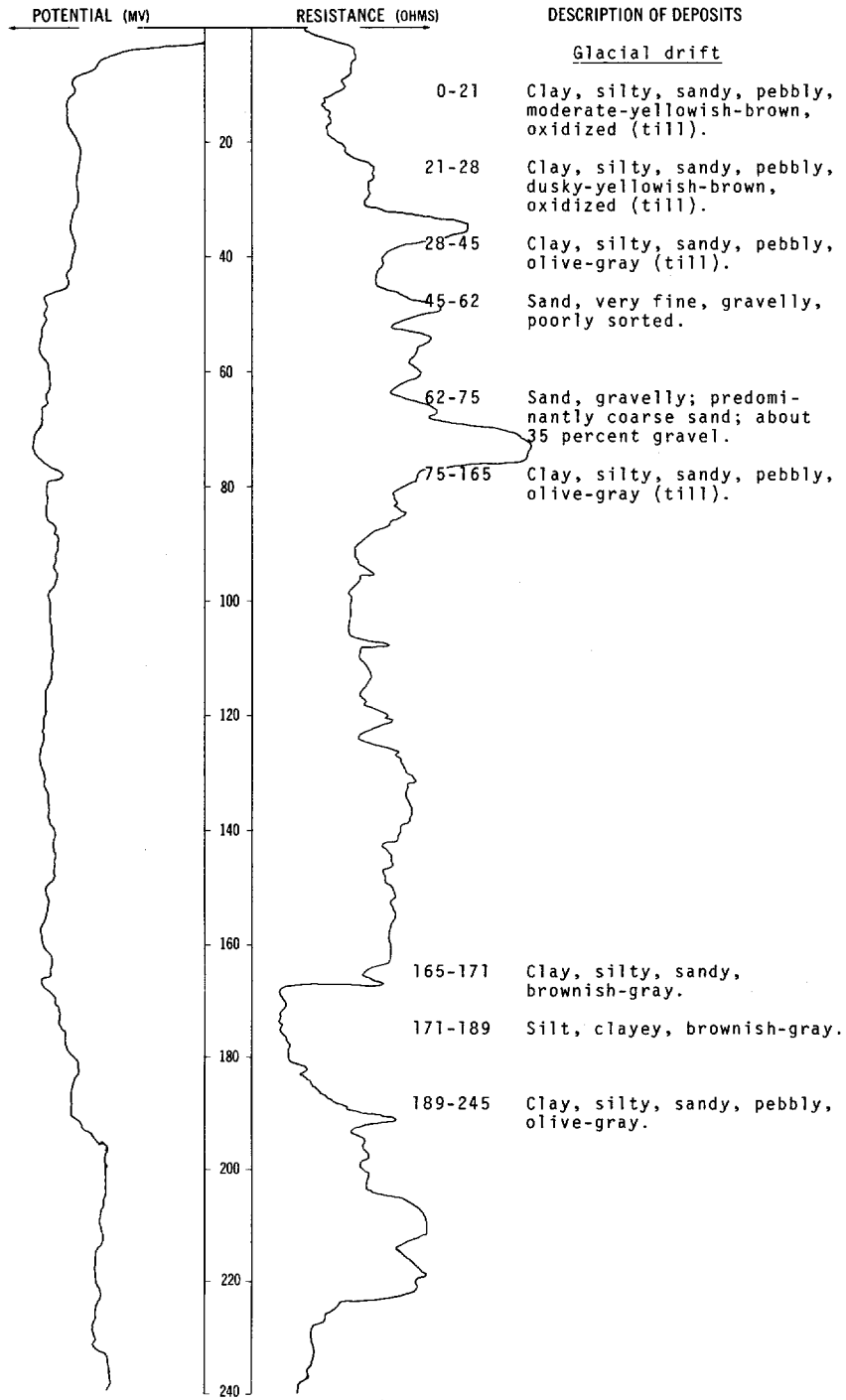
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	17	17
	Clay, silty, sandy, pebbly, dark-yellowish-brown to dusky-yellowish-brown, oxidized (till)-----	6	23
	Clay, silty, sandy, pebbly, olive-gray; contains gravel layers at 46 to 47 feet, 62 to 64 feet, 75 to 77 feet, and 89 to 92 feet (till)-----	80	103
	Sand, gravelly, poorly sorted-----	4	107
	Clay, silty, sandy, pebbly (till)-----	4	111
	Cobbles-----	2	113
	Sand, gravelly, dirty; predominantly medium to coarse sand; contains thin clay lenses-----	8	121
	Clay and gravel lenses-----	6	127
	Clay, sandy, silty, pebbly, olive-gray-----	13	140

LOCATION: 130-061-148BB1

DATE DRILLED: 11/09/76

ALTITUDE: 1407
(FT, MSL)

DEPTH: 300
(FT)



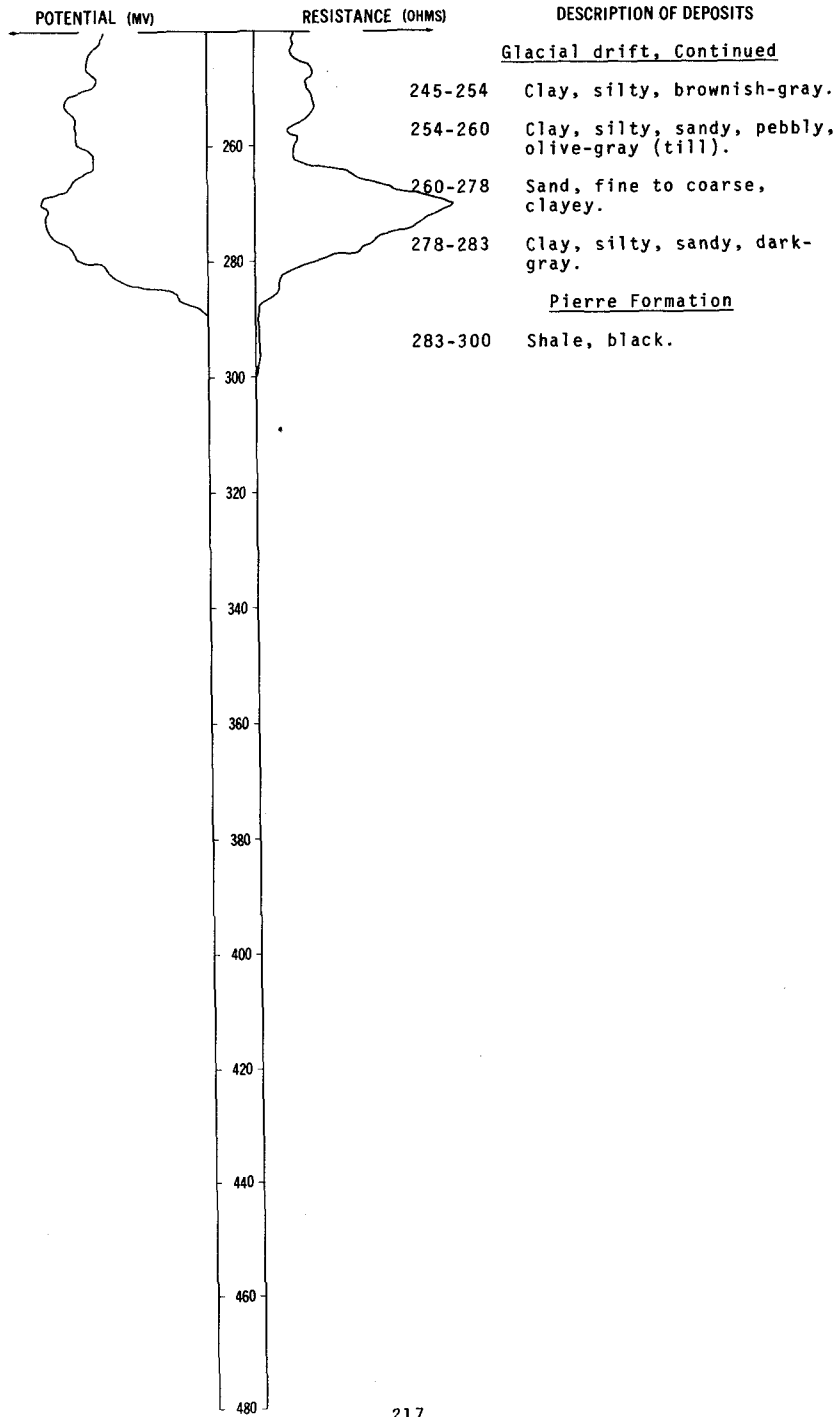
NDSWC 9833, Continued

LOCATION: 130-061-14BBB1

DATE DRILLED: 11/09/76

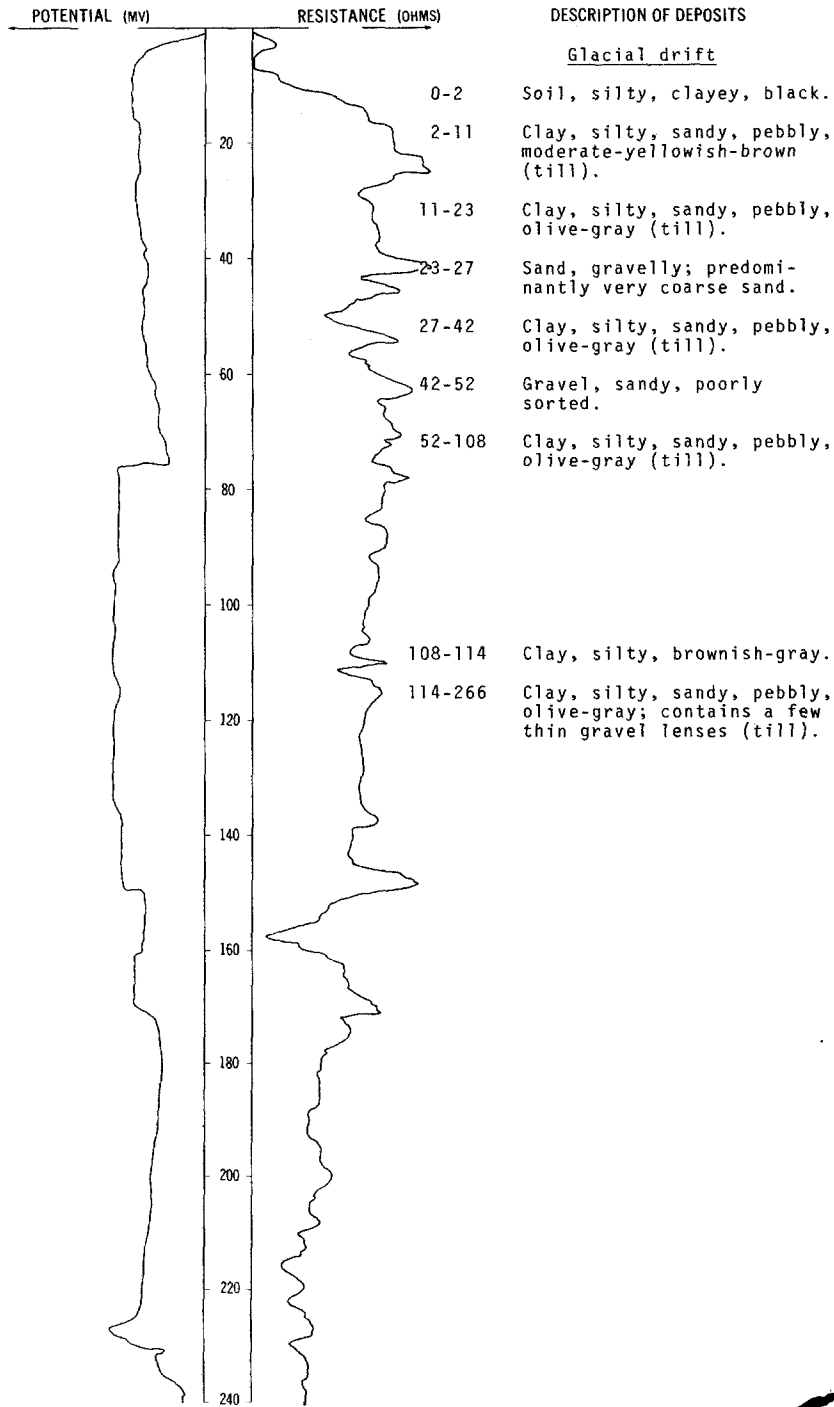
ALTITUDE: 1407
(FT, MSL)

DEPTH: 300
(FT)



LOCATION: 130-061-16AAA
ALTITUDE: 1380
(FT, MSL)

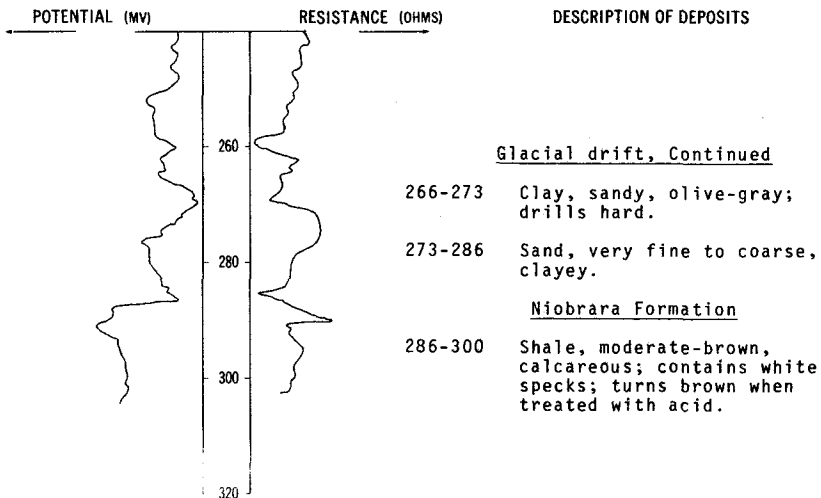
DATE DRILLED: 11/16/76
DEPTH: 300
(FT)



NDSWC 9834, Continued

LOCATION: 130-061-16AAA
 ALTITUDE: 1380
 (FT. MSL)

DATE DRILLED: 11/16/76
 DEPTH: 300
 (FT)



130-061-16BBB
 Test hole 5640
 (Log from Naplin, 1973)

Altitude: 1415 feet

Date drilled: 5/13/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, sandy, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, cobbles, boulders, moderate-yellowish-brown, slightly plastic, moderately cohesive, oxidized (till)-----	10	11
	Clay, silty, slightly sandy, pebbly, occasional thin sand lenses, cobbles, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	129	140

130-061-17CCC
 Test hole 5627
 (Log from Naplin, 1973)

Altitude: 1415 feet

Date drilled: 5/06/70

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, sandy, silty, clayey, brownish-black-----	1	1
	Clay, sandy, silty, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	25	26
	Clay, silty, slightly sandy, pebbly, slightly gravelly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	19	45
	Gravel, sandy, fine to coarse, sub-rounded, fair sorting, mostly carbonates and shale-----	1½	46½
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	10½	57
	Sand, slightly gravelly, fine to coarse-grained, subangular to rounded, mostly quartz-----	1	58
	Clay, silty, moderately sandy, pebbly, thin gravel lenses, olive-gray (till)-----	2	60
	Sand, fine- to coarse-grained, well-sorted, subangular to rounded-----	2	62
	Clay, silty, moderately sandy, pebbly, slightly gravelly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	10	72
	Sand, slightly gravelly, very fine to very coarse grained, (mostly medium to very coarse grained), subangular to rounded, well-sorted, approximately 25-35 percent shale, 20-30 percent carbonates, remaining portion mostly quartz, slightly lignitic, "clean-looking" samples-----	14	86
	Clay, very silty, slightly sandy, olive-gray, slightly cohesive, plastic, calcareous (glaciofluvial sediment)-----	7	93
	Sand, occasional thin clay lenses, slightly gravelly (fine gravel), very fine to very coarse grained, (mostly medium- to coarse-grained), subangular to rounded, well-sorted, mostly quartz and shale, lignitic-----	17	110
	Clay, very silty, olive-gray, occasional light-olive-gray laminations, slightly cohesive, plastic, calcareous (glaciofluvial sediment)-----	12	122
	Clay, silty, slightly sandy, pebbly, gravelly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	156	278
Niobrara Formation:			
	Shale, brownish black with occasional reddish-brown concretions, indurated, very slightly calcareous, laminated, occasional small white specks-----	22	300

130-061-28CCA
(Log from Albrecht Well Work)

Date drilled: 11/04/72

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, black-----	3	3
	Clay, silty, yellow-----	17	20
	Clay, silty, gray, some blue clay-----	5	25
	Clay, sand, gravelly, blue, dirty-----	43	68
	Gravel, stony; and sand, coarse, brown-----	--	68

130-061-28CCC
Test hole 5639
(Log from Naplin, 1973)

Altitude: 1405 feet

Date drilled: 5/13/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, clayey, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, moderate-yellowish-brown, slightly plastic, moderately cohesive, oxidized (till)-----	13	14
	Boulder, granite, very hard-----	1	15
	Gravel, moderately sandy, fine to medium, angular to rounded, fair sorting, approximately 35-45 percent carbonates, some shale, granitics, metamorphics and other siliceous rocks, oxidized throughout-----	5	20
	Clay, silty, slightly sandy, a few thin gravel lenses, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	65	85
	Gravel, slightly sandy, fine to coarse, angular to rounded, fair sorting, approximately 25-35 percent shale, 30-40 percent carbonates, remaining portion mostly granitics, slightly lignitic, taking some water-----	5	90
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, cohesive, plastic, calcareous (till)-----	70	160

130-061-29888
 Test hole 5626
 (Log from Naplin, 1973)

Altitude: 1410 feet

Date drilled: 5/06/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, pebbly, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, slightly gravelly, moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	25	26
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive, plastic, calcareous (till)-----	40	66
	Sand, slightly gravelly (fine gravel), very fine to very coarse grained, (mostly medium-grained), subangular to rounded, well-sorted, approximately 25-40 percent shale, 10-20 percent carbonates, remaining portion mostly quartz and feldspar, slightly lignitic, "clean-looking" samples-----	27	93
	Silt, moderately clayey, dark-gray, slightly cohesive, very plastic (glaciofluvial sediment)-----	7	100
	Clay, silty, slightly sandy, pebbly, slightly gravelly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	60	160

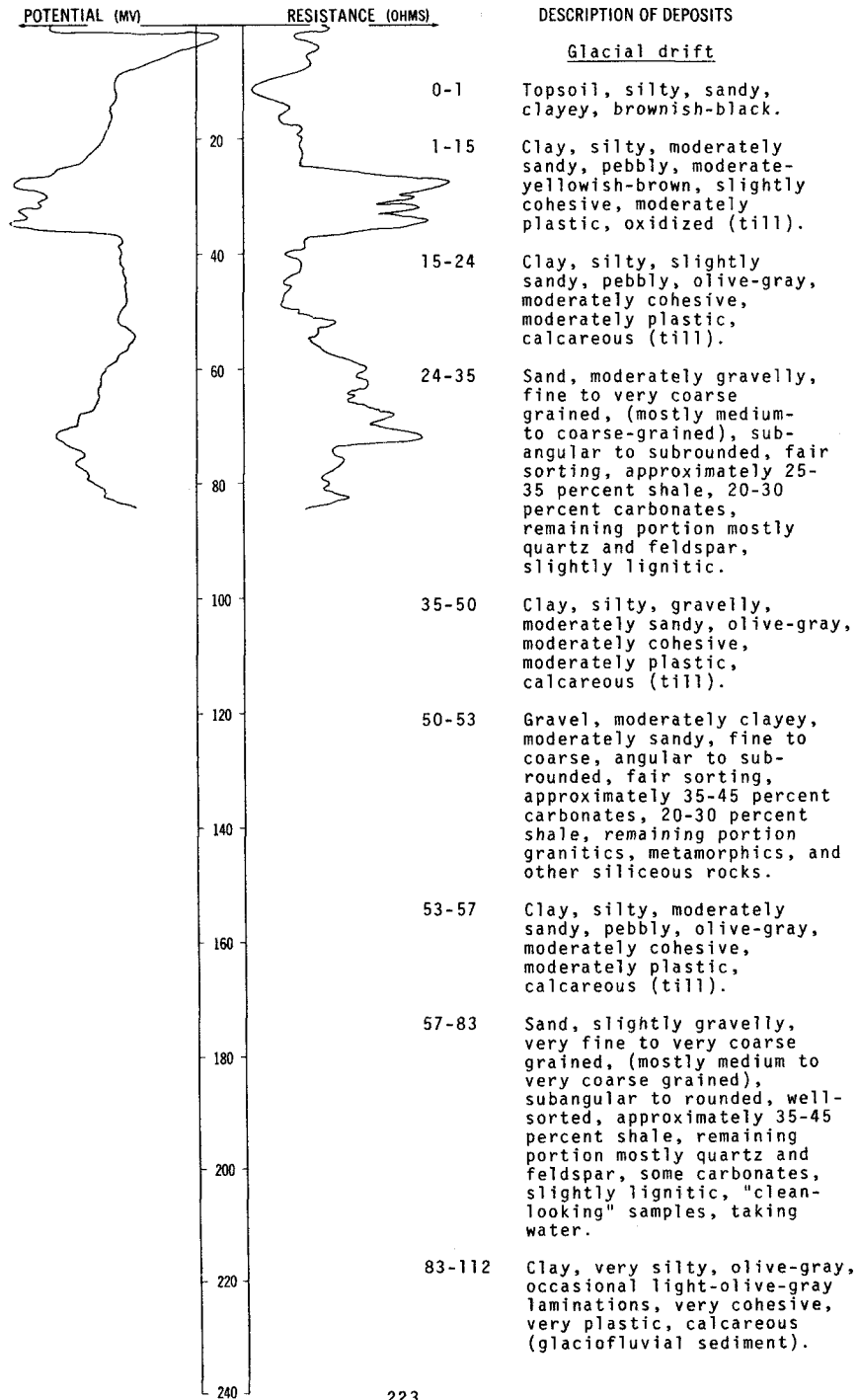
Test hole 5625
(Log from Naplin, 1973)

LOCATION: 130-061-30BBB

DATE DRILLED: 5/06/70

ALTITUDE: 1408
(FT, MSL)

DEPTH: 180
(FT)



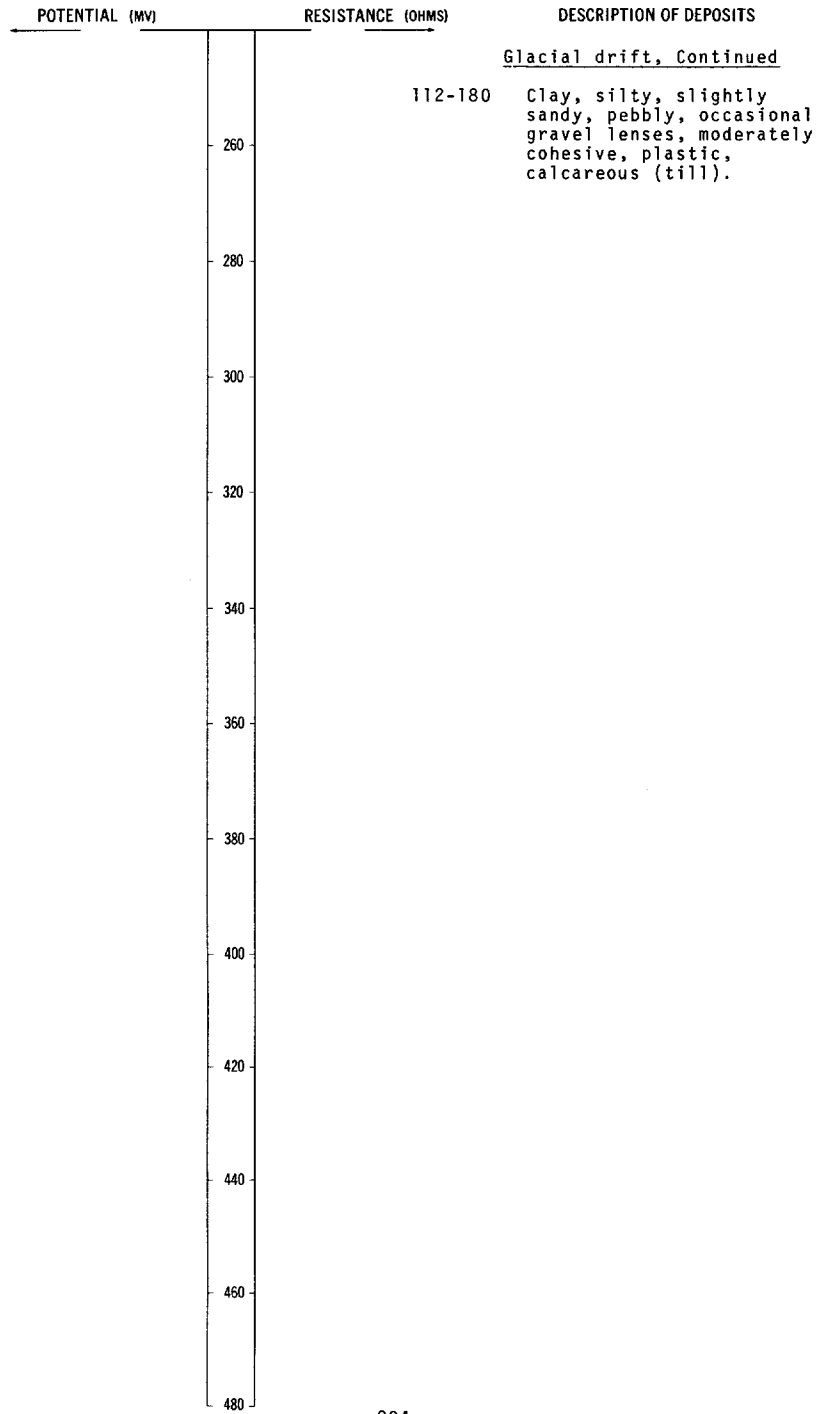
Test hole 5625, Continued
(Log from Naplin, 1973)

LOCATION: 130-061-308BB

DATE DRILLED: 5/06/70

ALTITUDE: 1408
(FT, MSL)

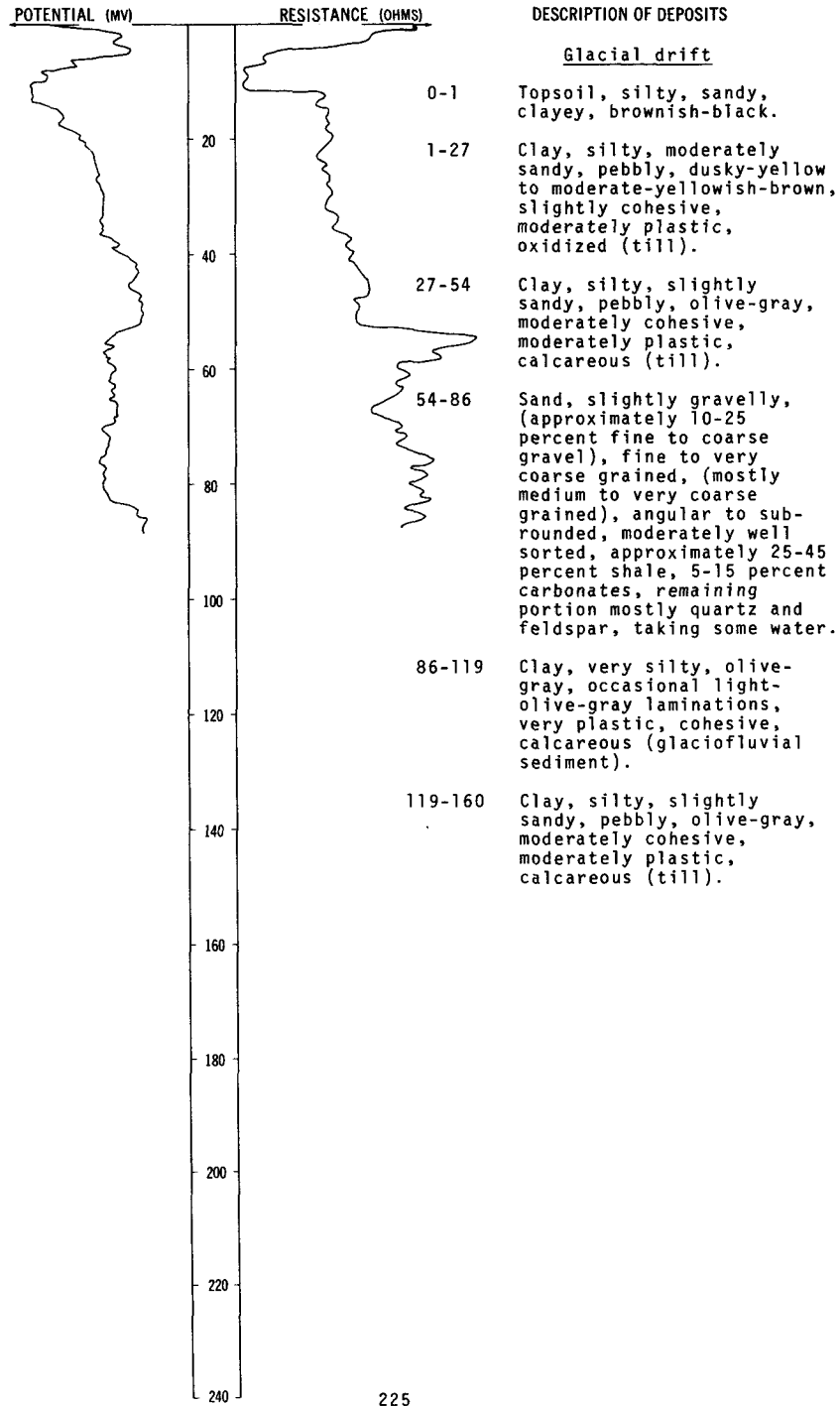
DEPTH: 180
(FT)



Test hole 5624
(Log from Naplin, 1973)

LOCATION: 130-061-31BBB
ALTITUDE: 1408
(FT, MSL)

DATE DRILLED: 5/05/70
DEPTH: 160
(FT)



130-061-31DDD
 Test hole 5623
 (Log from Naplin, 1973)

Altitude: 1418 feet		Date drilled: 5/05/70	
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, moderately sandy, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, moderate-yellowish-brown, slightly cohesive, plastic, oxidized (till)-----	30	31
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	19	50
	Sand, slightly clayey, fine- to coarse-grained, (mostly fine- to medium-grained), subangular to rounded, moderately well sorted, mostly quartz and shale, some carbonates, lignitic-----	5	55
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, plastic (till)-----	10	65
	Sand, clayey, very fine to medium-grained, fair sorting, subrounded, very "dirty-looking" samples, lignitic-----	4	69
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	19	88
	Sand, slightly gravelly, very fine to very coarse grained, subangular to rounded, moderately well sorted, mostly quartz and shale, lignitic-----	4	92
	Clay, very silty, olive-gray to medium-dark-gray, occasional light-olive-gray laminations, very plastic, cohesive, calcareous (glaciofluvial sediment)-----	41	133
	Clay, silty, slightly sandy, pebbly, gravelly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	144	277
Niobrara Formation:			
	Shale, silty, grayish-brown to brownish-black, indurated, occasional small white specks, slightly calcareous-----	23	300

130-061-348BB
NDSWC 9835

Altitude: 1385 feet

Date drilled: 11/17/76

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Soil-----	1	1
	Clay, silty, very sandy, pebbly, moderate-yellowish-brown (till)-----	15	16
	Clay, silty, sandy, pebbly, olive-gray; contains several thin sand and gravel lenses (till)-----	140	156
	Gravel, sandy; predominantly composed of shale and limestone pebbles-----	4	160
	Clay, silty, brownish-gray-----	11	171
	Clay, silty, sandy, pebbly, olive-gray; contains thin sandy gravel lenses (till)-----	76	247
	Clay, silty, sandy, brownish-gray-----	15	262
	Sand and gravel-----	4	266
	Clay, silty, sandy, olive-gray-----	7	273
	Clay, sandy, olive-gray-----	6	279
	Clay, silty, sandy, pebbly, olive-gray (till)-----	13	292
	Clay, sandy, olive-gray-----	5	297
	Gravel, sandy-----	2	299
	Clay, sandy, olive-gray-----	8	307
Niobrara Formation:			
	Shale, moderate-brown, calcareous; contains white specks-----	13	320

130-062-10DDD
 Test hole 5629
 (Log from Naplin, 1973)

Altitude: 1415 feet Date drilled: 5/05/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, clayey, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, cobbles, boulders, moderate-yellowish-brown, slightly cohesive, moderately plastic, oxidized (till)-----	23	24
	Clay, silty, slightly sandy, occasional thin gravel lenses, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	50	74
	Sand, clayey, fine- to medium-grained, subangular to rounded, poorly sorted-----	2	76
	Clay, silty, moderately sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	8	84
	Clay, silty, sandy, pebbly, numerous gravelly sand lenses, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	7	91
	Sand, silty, clayey, very fine to coarse-grained, (mostly fine- to medium-grained), subangular to rounded, poorly to moderately well sorted, approximately 10-20 percent shale, remaining portion mostly quartz, lignitic-----	15	106
	Clay, silty, slightly sandy, pebbly, occasional gravel lenses, a few cobbles, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	18	124
	Gravel, sandy, fine to medium, angular to subrounded, poorly sorted-----	4	128
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	32	160

130-062-12CAC
 (Log from Falk Bros. Well Drilling)

Altitude: 1415 feet Date drilled: 9/19/74

Glacial drift:			
	Clay, yellow-----	8	8
	Gravel-----	7	15
	Shale-----	45	60
	Sand, dense, fine-----	52	112
	Shale-----	8	120

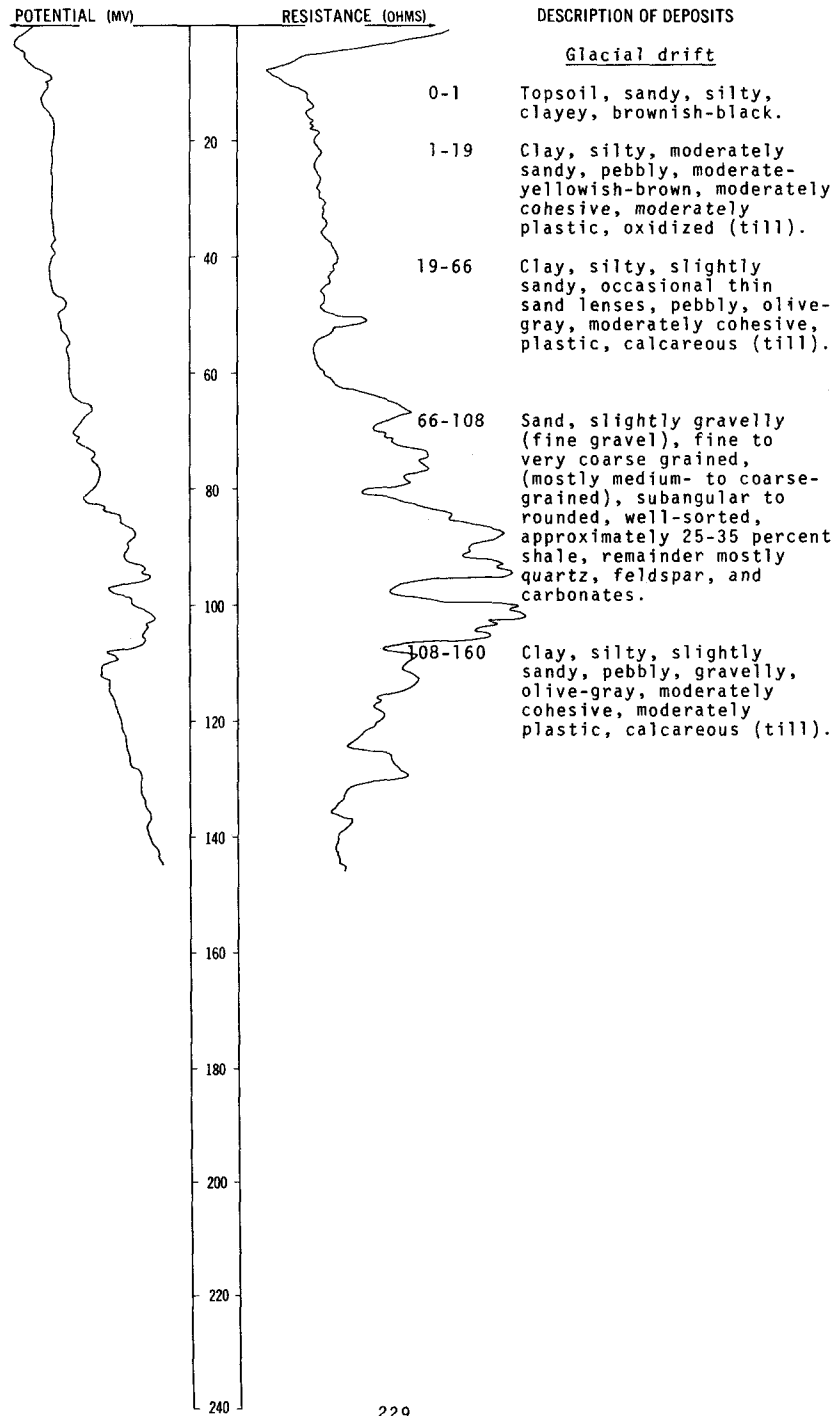
Test hole 5628
(Log from Naplin, 1973)

LOCATION: 130-062-12DDD

DATE DRILLED: 5/06/70

ALTITUDE: 1410
(FT, MSL)

DEPTH: 160
(FT)



130-062-15BBB
 Test hole 5630
 (Log from Naplin, 1973)

Altitude: 1415 feet Date drilled: 5/07/70

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, silty, sandy, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	11	12
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	66	78
	Sand, very silty, clayey, very fine to medium-grained, (mostly fine-grained), subangular to rounded, fair sorting, mostly quartz and shale, lignitic-----	5	83
	Clay, silty, slightly sandy, pebbly, occasional cobbles and boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	151	234
Niobrara Formation:			
	Shale, siliceous, brownish-black to grayish-black, occasional small white specks and brownish concretions, moderately to slightly calcareous, indurated, bedded-----	26	260

130-062-22DDD
 Test hole 5259
 (Log from Naplin, 1973)

Altitude: 1407 feet Date drilled: 12/10/68

Glacial drift:			
	Topsoil, slightly sandy, silty, clayey, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	18	19
	Clay, silty, sandy, pebbly, olive-gray to medium-dark-gray, cohesive, moderately plastic, moderately calcareous (till)-----	181	200

130-062-23DDC
 Test hole 5631
 (Log from Naplin, 1973)

Altitude: 1410 feet Date drilled: 5/07/70

<u>Geologic Source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, sandy, brownish-black-----	½	½
	Clay, silty, slightly to moderately sandy, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	16½	17
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	53	70
	Sand, moderately gravelly, very fine to coarse-grained, (mostly fine- to medium-grained), subangular to rounded, well-sorted, approximately 15-25 percent shale, remaining portion mostly quartz and feldspar-----	38	108
	Clay, very silty, occasional thin sand lenses, olive-gray, occasional light-olive-gray laminations, very plastic, slightly cohesive, calcareous (glaciofluvial sediment)-----	31	139
	Clay, silty, slightly sandy, pebbly, gravelly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	41	180

130-062-24CDD
 Test hole 5260
 (Log from Naplin, 1973)

Altitude: 1415 feet Date drilled: 12/10/68

<u>Geologic Source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, clayey, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	24	25
	Gravel, slightly clayey, silty, sandy, (approximately 25-45 percent fine to very coarse grained, angular to subrounded sand), fine to coarse, angular to subrounded, fair sorting, approximately 20-30 percent shale, 30-45 percent carbonates, remainder mostly light-colored granitics, oxidized-----	30	55
	Clay, silty, slightly sandy, pebbly, a few cobbles, occasional thin gravel lenses, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	25	80
	Silt, moderately sandy, olive-gray to dark-greenish-gray, slightly cohesive, plastic, calcareous, silt fraction washing out, poor samples-----	35	115
	Clay, silty, slightly sandy, pebbly, occasional thin gravel lenses, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	85	200

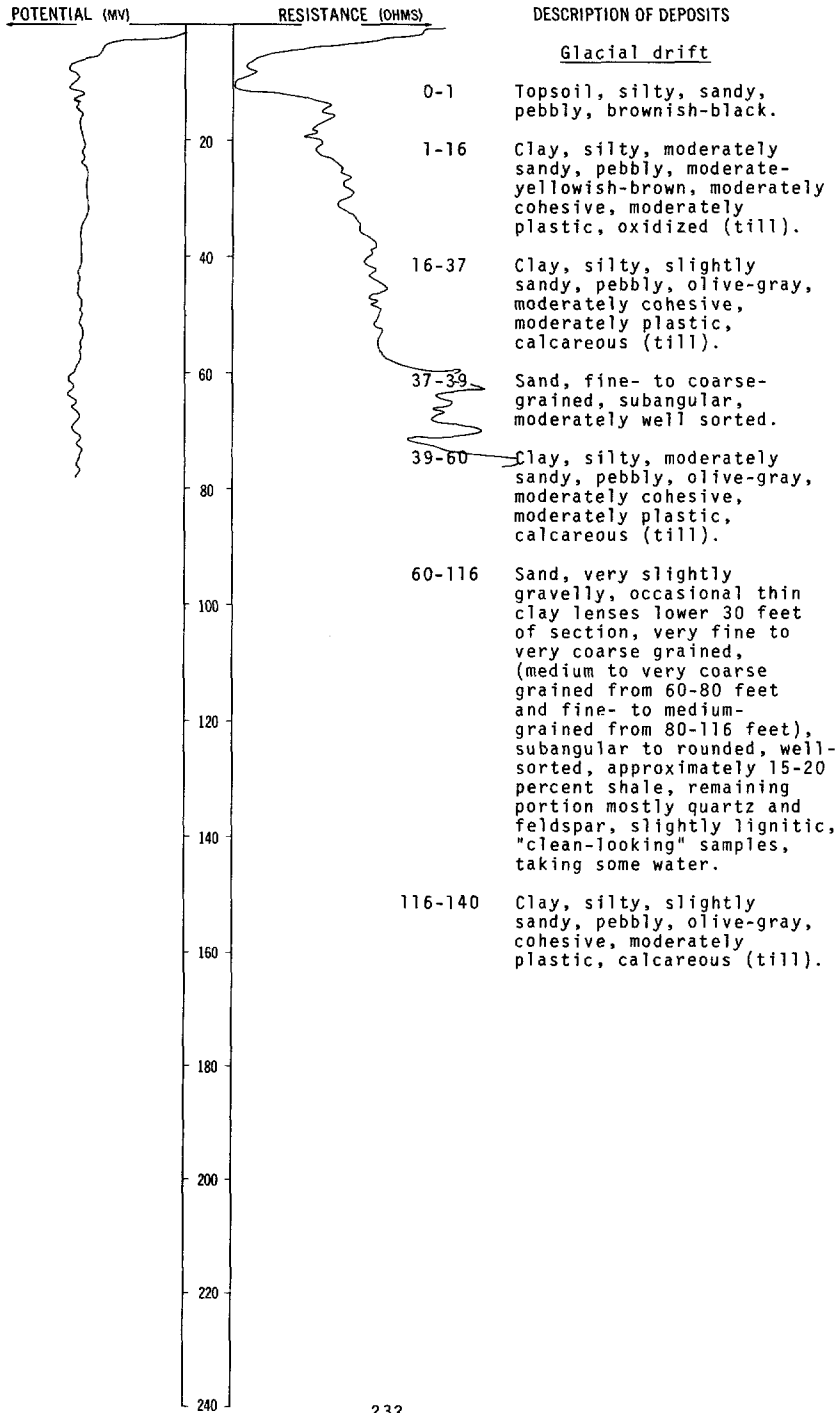
Test hole 5646
(Log from Naplin, 1973)

LOCATION: 130-062-25CCD1

DATE DRILLED: 5/15/70

ALTITUDE: 1401
(FT, MSL)

DEPTH: 140
(FT)



130-062-25DAB
 Test hole 5261
 (Log from Naplin, 1973)

Altitude: 1396 feet

Date drilled: 12/11/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, sandy, silty, clayey, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	14	15
	Clay, silty, sandy, pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	25	40
	Gravel, moderately sandy, slightly silty, fine to medium, angular to subrounded, fair sorting, mostly shale and carbonates, some granitics-----	2	42
	Clay, silty, moderately sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	3	45
	Sand, gravelly (approximately 15-30 percent fine to medium, angular to subrounded gravel), fine to very coarse grained, moderately well sorted, approximately 30-50 percent shale, 15-20 percent carbonates, remainder quartz, light-colored granitics, chalcedony and small percent lignite-----	25	70
	Gravel, sandy (approximately 25-45 percent fine to very coarse grained, subangular to subrounded sand), fine grading to coarse, angular to rounded, fair sorting, approximately 30-40 percent shale, 20-30 percent light-colored granitics, remainder mostly carbonates, small percent lignite-----	11	81
	Clay, very silty, olive-gray to dark-greenish-gray with light-olive-gray laminations, very plastic, calcareous (glacio-fluvial sediment)-----	29	110
	Gravel, slightly sandy, fine to medium, angular to subrounded, poorly sorted, mostly carbonates and light-colored granitics, some shale-----	4	114
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous, occasional thin gravel lenses-----	86	200

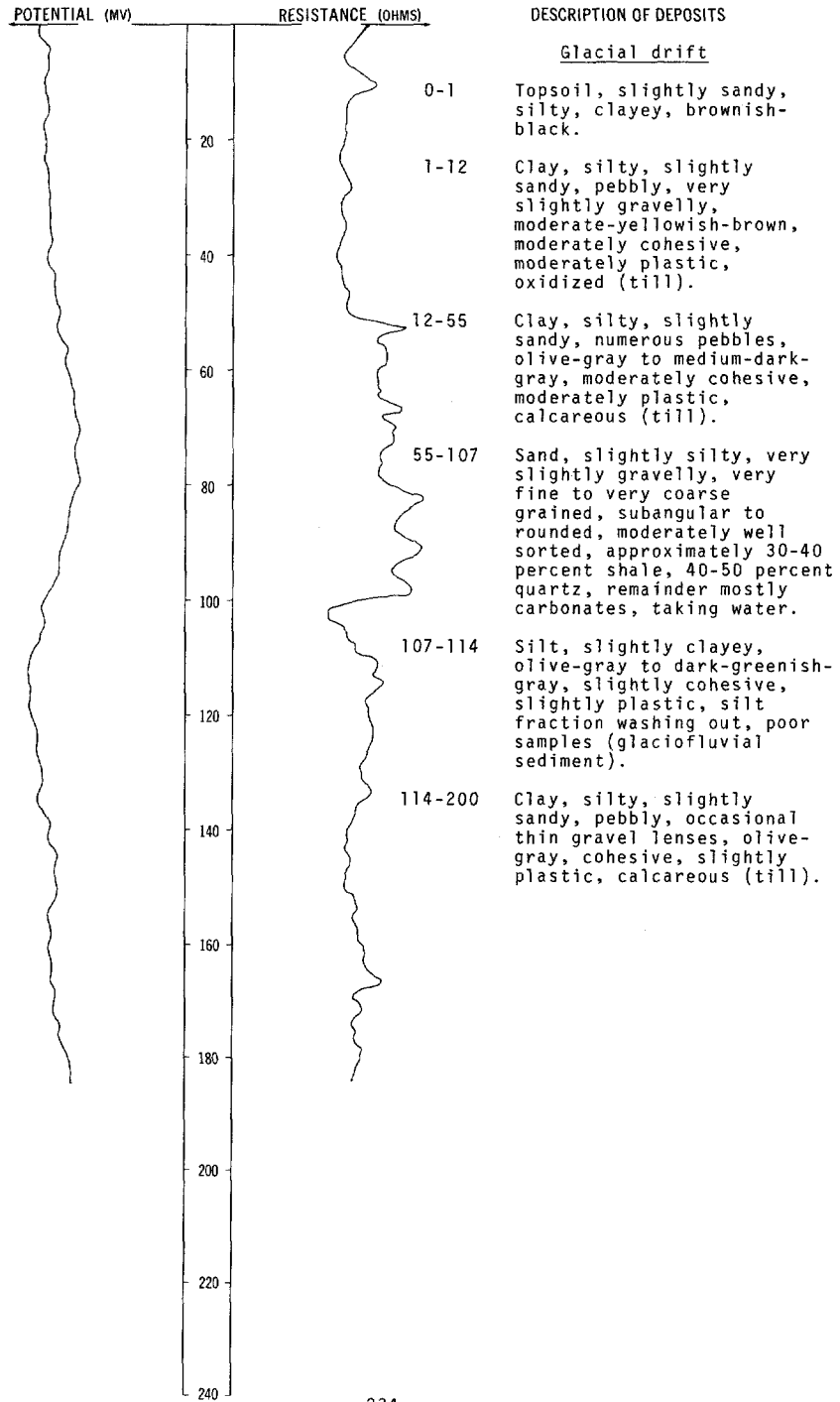
Test hole 5256
(Log from Naplin, 1973)

LOCATION: 130-062-25DCC

DATE DRILLED: 12/09/68

ALTITUDE: 1410
(FT. MSL)

DEPTH: 200
(FT)



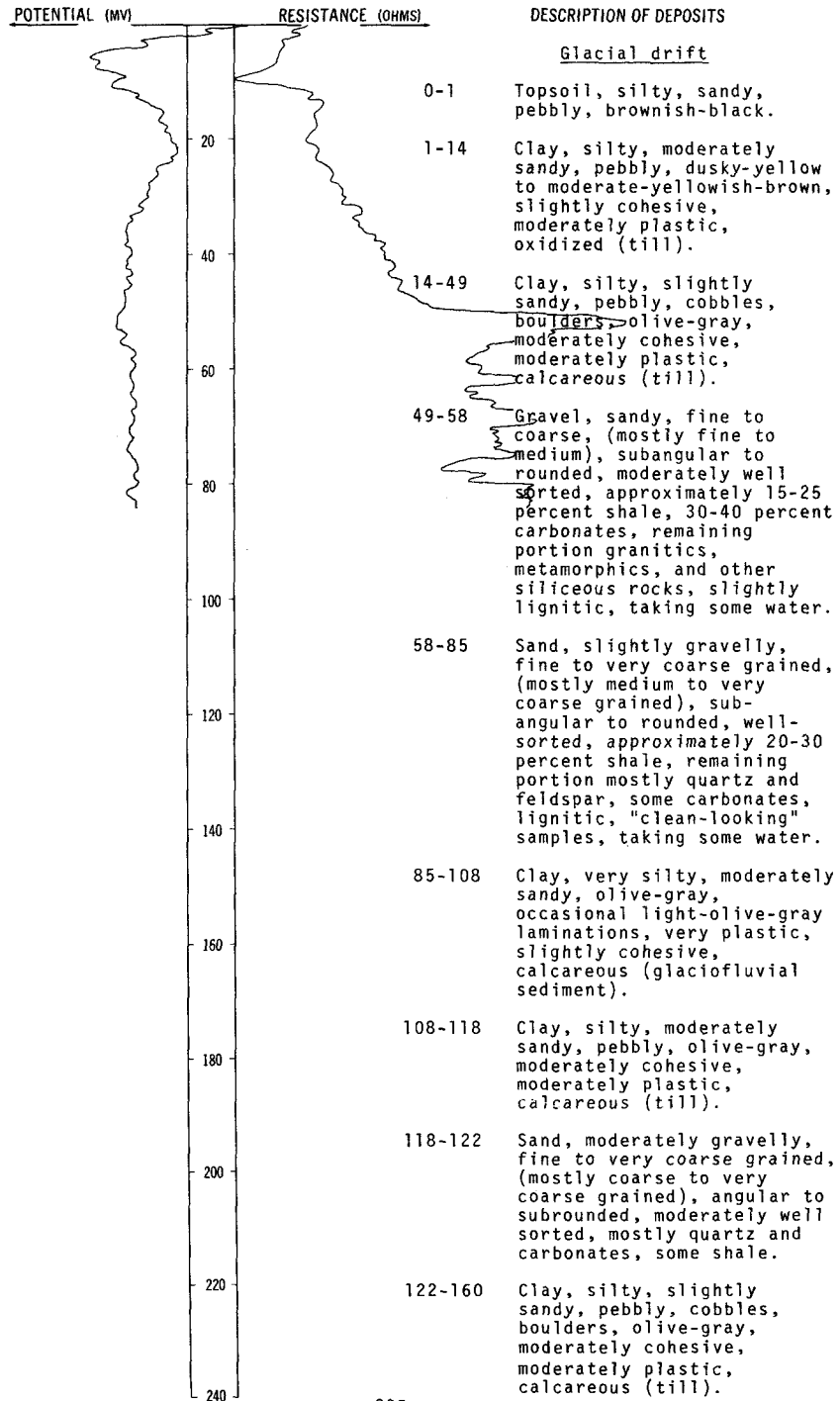
Test hole 5645
(Log from Naplin, 1973)

LOCATION: 130-062-25DCD

DATE DRILLED: 5/15/70

ALTITUDE: 1403
(FT, MSL)

DEPTH: 160
(FT)



130-062-26CCC
 Test hole 5255
 (Log from Naplin, 1973)

Altitude: 1405 feet

Date drilled: 12/05/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, slightly sandy, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	13	14
	Sand, very clayey, slightly gravelly, angular to subangular, fair sorting, medium to very coarse grained, mostly quartz and granitics, some carbonates, oxidized-----	1	15
	Clay, silty, slightly sandy, pebbly, occasional thin gravel lenses, a few cobbles, olive-gray, cohesive to moderately cohesive, plastic, moderately calcareous (till)-----	135	150
	Gravel, sandy (approximately 25-35 percent medium to very coarse grained sand), a few clay lenses, fine to medium, angular to rounded, fair sorting, approximately 50-60 percent carbonates, remainder mostly shale and light-colored granitics, a few conglomerate pebbles and lignite, taking water-----	16	166
	Clay, silty, slightly sandy, pebbly, numerous thin gravel lenses, a few cobbles, olive-gray, moderately plastic, calcareous (till)-----	54	220

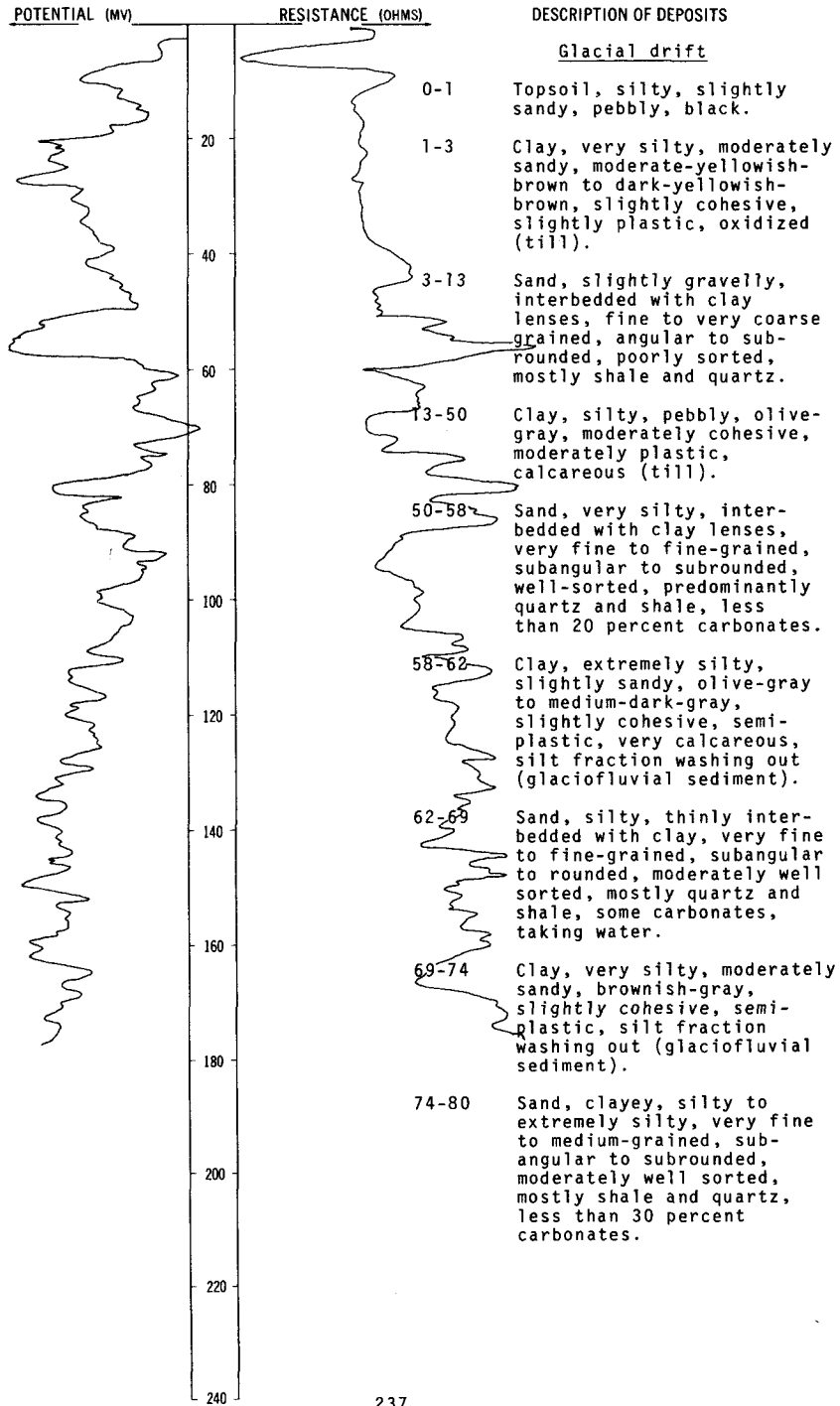
Test hole 5147
(Log from Naplin, 1973)

LOCATION: 130-062-26DCC

DATE DRILLED: 8/28/68

ALTITUDE: 1390
(FT, MSL)

DEPTH: 300
(FT)



Test hole 5147, Continued
(Log from Naplin, 1973)

LOCATION: 130-062-26DCC

DATE DRILLED: 8/28/68

ALTITUDE: 1390
(FT, MSL)

DEPTH: 300
(FT)

POTENTIAL (MV)	RESISTANCE (OHMS)	DESCRIPTION OF DEPOSITS
		<u>Glacial drift, Continued</u>
260	80-150	Clay, extremely silty, interbedded with very fine to coarse-grained sand throughout section, olive-gray to medium-dark-gray, slightly cohesive, samples washing out (glaciofluvial sediment).
280	150-169	Gravel, sandy, slightly silty, slightly clayey (approximately 25-35 percent medium to very coarse grained, subangular to subrounded sand), fine to coarse, becomes more coarse with depth, angular to subrounded, moderately well sorted, approximately 60-70 percent shale, remainder carbonates, granitics and lignite, rapidly taking water.
300		
320	169-184	Gravel, sandy (approximately 20-30 percent coarse to very coarse grained, angular to subrounded sand), fine to coarse, subangular to subrounded, well-sorted, approximately 65-75 percent carbonates, remainder shale and granitics, some lignite, taking water.
340		
360		
380	184-265	Clay, silty, pebbly, olive-gray, moderately cohesive to cohesive, moderately plastic, calcareous (till).
		<u>Niobrara Formation</u>
400	265-300	Shale, grayish brown with numerous moderate-brown concretions, numerous white specks, slightly calcareous, indurated, laminated.
420		
440		
460		
480		

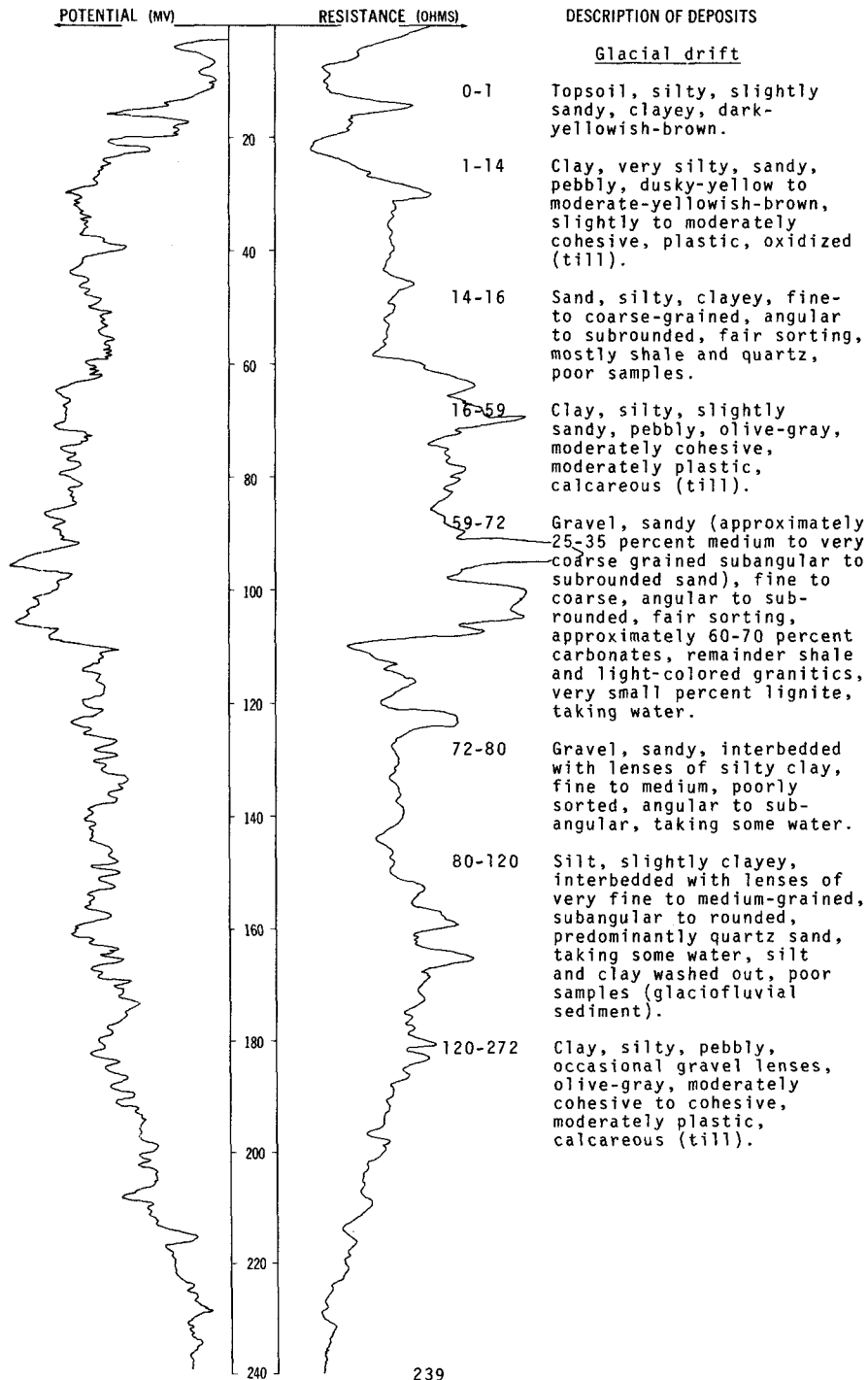
Test hole 5148
(Log from Naplin, 1973)

LOCATION: 130-062-26DDD

DATE DRILLED: 8/29/68

ALTITUDE: 1404
(FT, MSL)

DEPTH: 300
(FT)



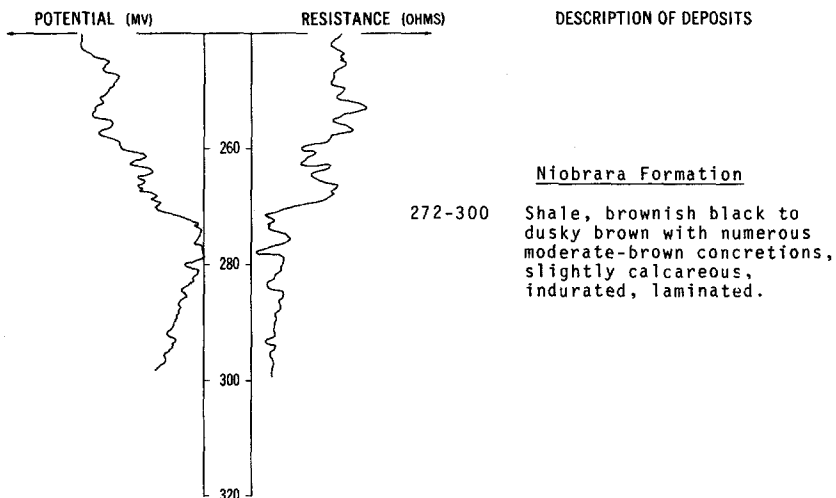
Test hole 5148, Continued
(Log from Naplin, 1973)

LOCATION: 130-062-260DD

DATE DRILLED: 8/29/68

ALTITUDE: 1404
(FT, MSL)

DEPTH: 300
(FT)



130-062-27DAA
Test hole 5632
(Log from Naplin, 1973)

Altitude: 1410 feet

Date drilled: 5/07/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, slightly sandy, black-----	1	1
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	21	22
	Sand, gravelly, fine to very coarse grained, subangular, poorly sorted, mostly carbonates, oxidized-----	3	25
	Clay, silty, slightly sandy, pebbly, cobbles and boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	102	127
	Clay, silty, sandy, very gravelly, numerous cobbles and boulders, olive-gray, cohesive, moderately plastic, calcareous (till)-----	13	140

130-062-30DDC
 Test hole 5160
 (Log from Naplin, 1973)

Altitude: 1420 feet Date drilled: 9/04/68

Geo'ogic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, silty, pebbly, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	6	7
	Sand, silty, clayey, fine- to coarse-grained, angular to subrounded, poorly sorted, mostly carbonates, some granitics, oxidized-----	2	9
	Clay, silty, pebbly, dark-yellowish-brown to olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	5	14
	Sand, very fine to medium-grained, angular to subrounded, moderately well sorted, mostly quartz and shale, small percent carbonates and lignite-----	5	19
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	21	40

130-062-30DDD
 Test hole 5161
 (Log from Naplin, 1973)

Altitude: 1418 feet Date drilled: 9/04/68

Glacial drift:			
	Topsoil, silty, slightly sandy, pebbly, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	6	7
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	53	60

130-062-34DAA
 Test hole 5633
 (Log from Naplin, 1973)

Altitude: 1403 feet Date drilled: 5/08/70

Glacial drift:			
	Topsoil, silty, clayey, sandy, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, a few cobbles, moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	14	15
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, cohesive, plastic, calcareous (till)-----	165	180

130-062-35DAD
(Log from Albrecht Well Work)

Altitude: 1385 feet Date drilled: 8/21/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil, black-----	2	2
	Sand, some clay, mixed-----	13	15
	Sand and gravel, dry-----	12	27
	Sand and gravel, water-----	4	31
	Clay, blue, stones-----	9	40

130-062-35DBD
Test hole 5258
(Log from Naplin, 1973)

Altitude: 1402 feet Date drilled: 12/10/68

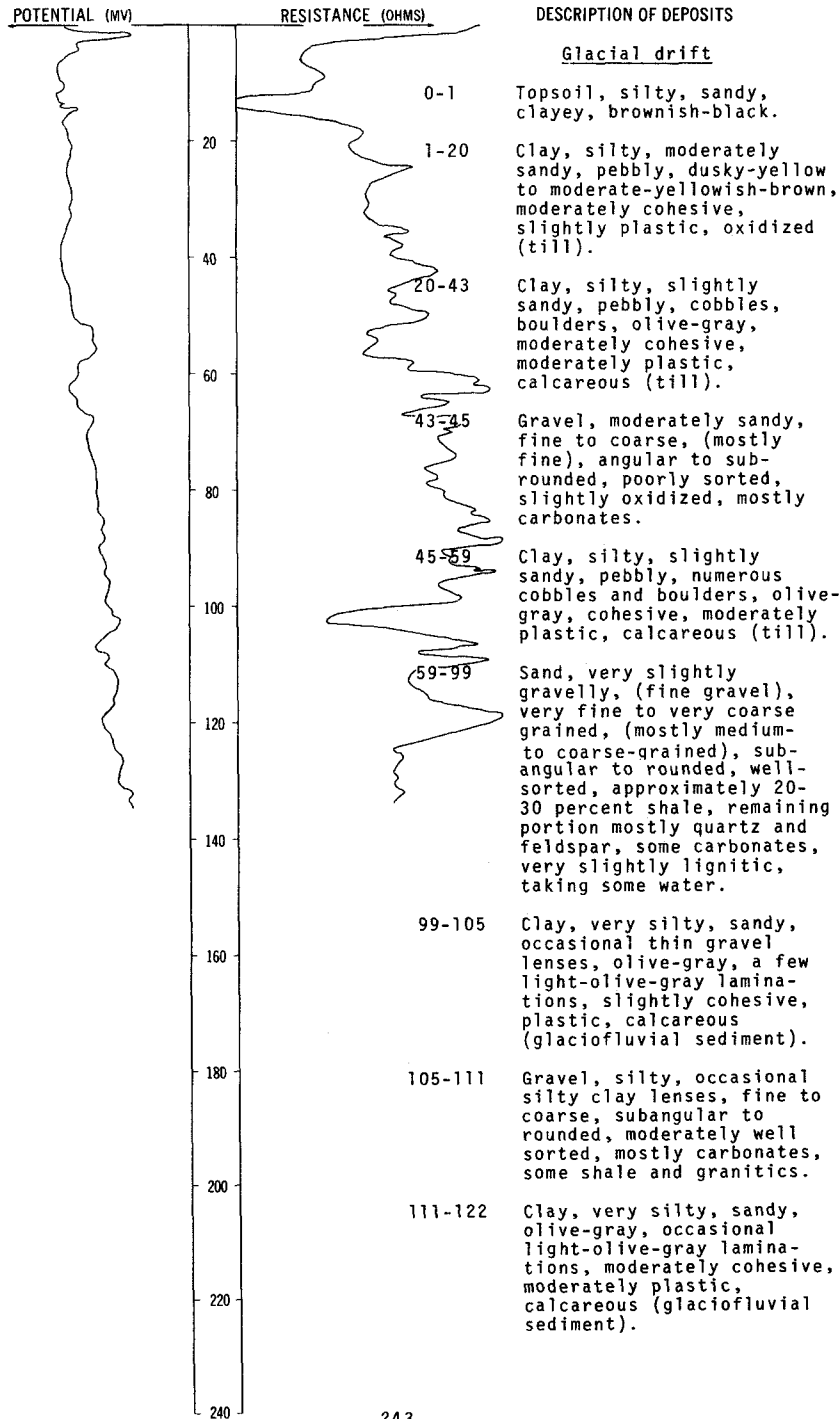
Glacial drift:

	Topsoil, sandy, silty, gravelly, brownish-black-----	1	1
	Gravel, sandy, clayey, silty (approximately 35-45 percent fine to very coarse grained, angular to subrounded sand), fine to medium, angular to subrounded, approximately 50-60 percent carbonates, remainder light-colored granitics, shale and sandstone, oxidized, stratified-----	19	20
	Sand, gravelly, slightly clayey, (approximately 20-30 percent fine gravel), fine to very coarse grained, angular to subrounded, fair sorting, becomes more gravelly with depth, approximately 30-40 percent shale, 40-50 percent quartz, remainder mostly carbonates and granitics-----	11	31
	Gravel, sandy, very slightly silty and clayey, approximately 15-35 percent sand with sand content decreasing with depth, fine to coarse, angular to subrounded, fair sorting, approximately 60-70 percent shale, remainder mostly carbonates and granitics-----	11	42
	Clay, silty, slightly sandy, pebbly, a few cobbles, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	48	90
	Silt, clayey, interbedded with very fine to medium-grained sand, olive-gray to dark-greenish-gray, calcareous, silt fraction washing out (glaciofluvial sediment)-----	59	149
	Clay, silty, slightly to moderately sandy, pebbly, occasional thin gravelly lenses, olive-gray, cohesive, moderately plastic, moderately calcareous (till)-----	51	200

Test hole 5647
(Log from Naplin, 1973)

LOCATION: 130-062-36CCB1
ALTITUDE: 1399
(FT, MSL)

DATE DRILLED: 5/18/70
DEPTH: 140
(FT)



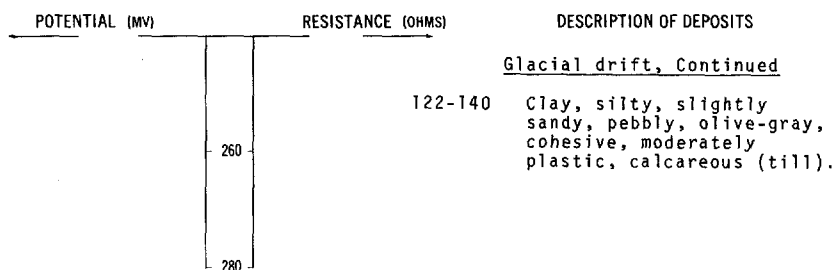
Test hole 5647, Continued
(Log from Naplin, 1973)

LOCATION: 130-062-36CCB1

DATE DRILLED: 5/18/70

ALTITUDE: 1399
(FT, MSL)

DEPTH: 140
(FT)



130-062-36CCB2
Test hole 5649
(Log from Naplin, 1973)

Altitude: 1401 feet

Date drilled: 5/19/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, clayey, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	18	19
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	24	43
	Sand, slightly gravelly, (mostly fine), fine to very coarse grained, (mostly coarse to very coarse grained), subangular to rounded, moderately well sorted-----	3	46
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, cohesive, slightly plastic, calcareous (till)-----	9	55
	Sand, very fine to very coarse grained, (mostly medium- to coarse-grained), subangular to rounded, well-sorted, approximately 20-30 percent shale, remaining portion mostly quartz and carbonates, lignitic-----	46	101
	Clay, very silty, sandy, occasional thin sandy, gravel lenses, olive-gray, occasional light-olive-gray laminations, plastic, slightly cohesive, calcareous (glaciofluvial sediment)-----	12	113
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	27	140

130-062-36CCB3
 Test well
 (Log from Naplin, 1973)

Altitude: 1399 feet

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Clay (till)-----	58	58
	Sand, medium- to coarse-grained, (becomes finer with depth)-----	13	71
	Sand, occasional silty clay laminations, very fine grained-----	17	88
	Sand, occasional silty clay lenses, fine- to coarse-grained, (mostly medium-grained), rounded, well- sorted-----	13	101
	Clay, silty, olive-gray-----	2	103

130-062-36CCD
 Test hole 5648
 (Log from Naplin, 1973)

Altitude: 1400 feet

Date drilled: 5/18/70

Glacial drift:

	Topsoil, silty, sandy, clayey, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, dusky-yellow to moderate-yellowish- brown, moderately cohesive, moderately plastic, oxidized (till)-----	18	19
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	25	44
	Gravel, slightly sandy, silty, fine to coarse, subangular to rounded, fair sorting, mostly carbonates, some shale, granitics, metamorphics, and siliceous rocks-----	3	47
	Clay, silty, slightly sandy, pebbly, numerous cobbles and boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	13	59
	Sand, very slightly gravelly, occasional silty, sandy, clay lenses, very fine to coarse- grained (mostly medium-grained), subangular to rounded, moderately well sorted, approximately 25-35 percent shale, remaining portion mostly quartz and feldspar, some carbonates, lignitic-----	43	102
	Clay, very silty, sandy, occasional thin gravelly, sand lenses, olive- gray, occasional light-olive-gray laminations, cohesive, plastic (glaciofluvial sediment)-----	10	112
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	28	140

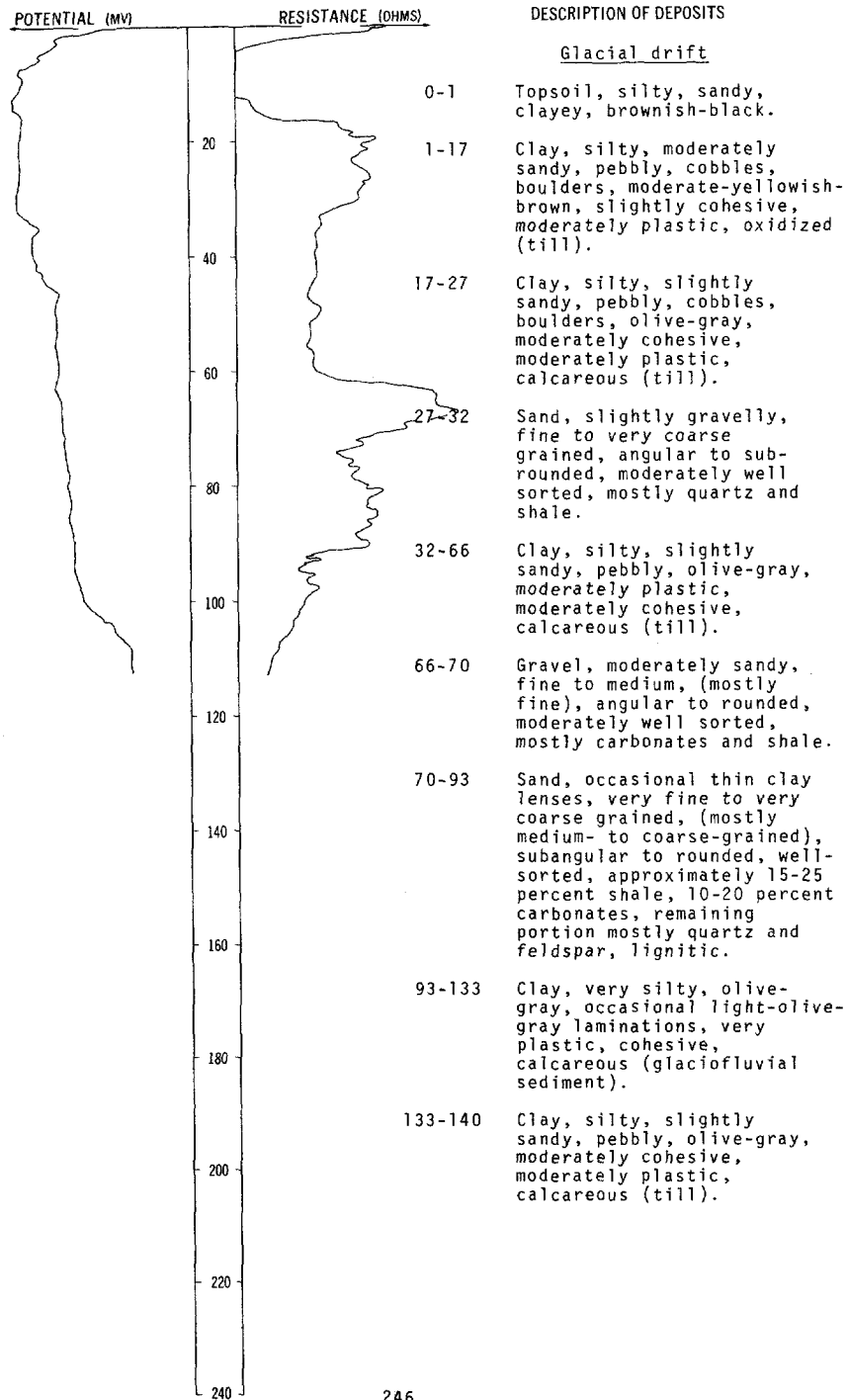
Test hole 5643
(Log from Naplin, 1973)

LOCATION: 130-062-36DAA1

DATE DRILLED: 5/15/70

ALTITUDE: 1410
(FT, MSL)

DEPTH: 140
(FT)



130-062-36DAA2
 Test hole 5644
 (Log from Naplin, 1973)

Altitude: 1405 feet

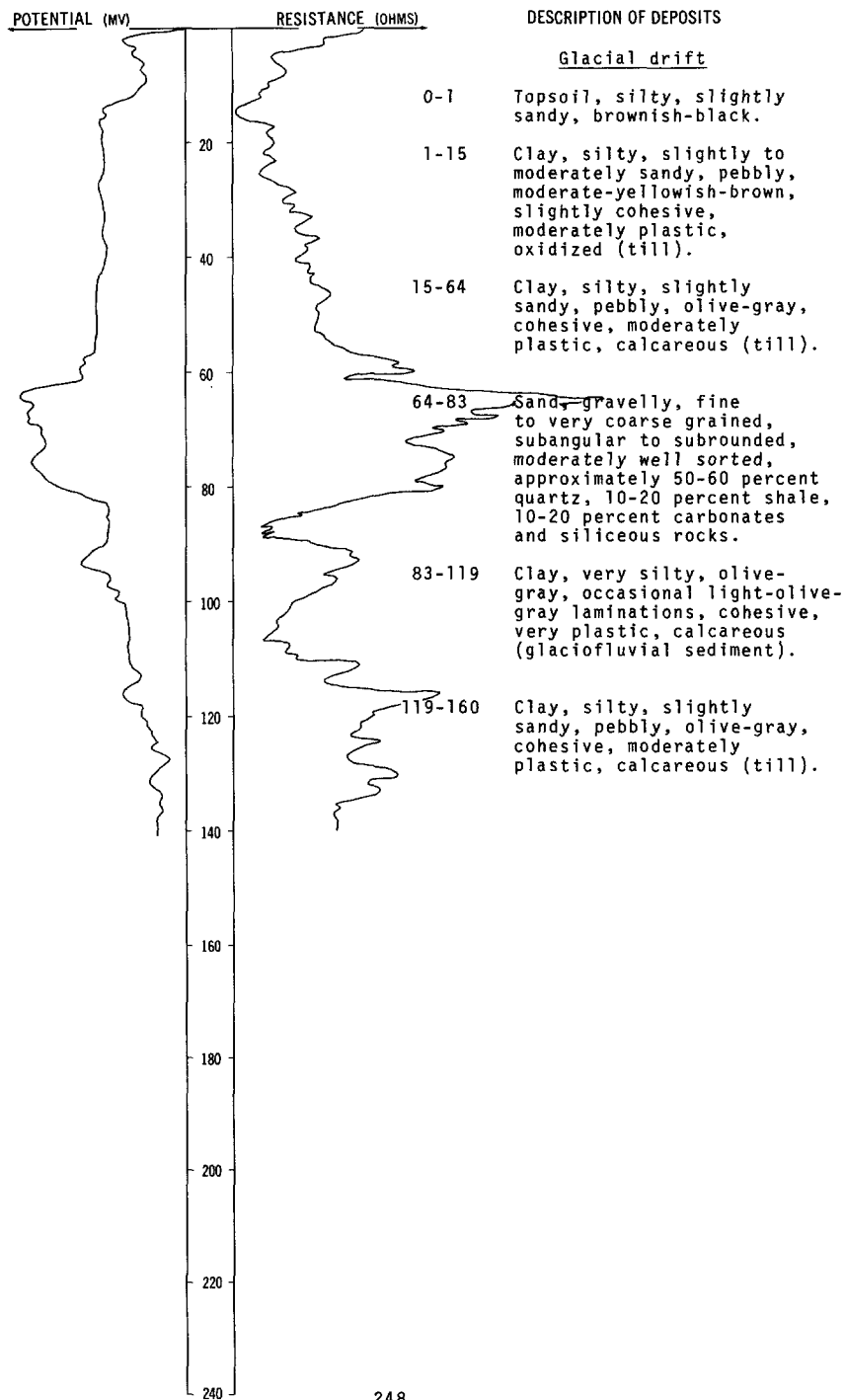
Date drilled: 5/15/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, sandy, brownish-black-----	1	1
	Clay, silty, moderately sandy, pebbly, moderate-yellowish-brown, slightly cohesive, moderately plastic, oxidized (till)-----	13	14
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	15	29
	Sand, moderately gravelly, (fine to coarse gravel), fine to very coarse grained, (mostly medium to very coarse grained), angular to subrounded, moderately well sorted, approximately 20-30 percent shale, 15-20 percent carbonates, remaining portion mostly quartz and feldspar, taking some water-----	7	36
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	39	75
	Clay, very silty, moderately sandy, olive-gray, occasional light-olive-gray laminations, very plastic, slightly cohesive, calcareous (glaciofluvial sediment)-----	35	110
	Clay, silty, slightly sandy, pebbly, cobbles, boulders, olive-gray, cohesive, moderately plastic, calcareous (till)-----	50	160

Test hole 5622
(Log from Naplin, 1973)

LOCATION: 130-062-36DDD
ALTITUDE: 1405
(FT, MSL)

DATE DRILLED: 5/05/70
DEPTH: 160
(FT)



130-063-03BBC
(Log from Albrecht Well Work)

Altitude: 1485 feet	Date drilled: 12/17/74		
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil, black-----	2	2
	Clay, silty, yellow-----	13	15
	Clay, blue-----	5	20
	Sand, brown, water-----	3	23
	Clay, dark, no stones-----	4	27
	Sand and gravel, dark-brown, water-----	3	30

130-063-08ABA
(Log from Albrecht Well Work)

Altitude: 1495 feet	Date drilled: 8/20/74		
	Topsoil, black-----	2	2
	Clay, silty, yellow-----	18	20
	Clay, blue, stones-----	13	33
	Sand, water-----	2	35
	Clay, sandy, water-----	3	38

130-063-22ADD
(Log from Albrecht Well Work)

Altitude: 1480 feet	Date drilled: 10/11/74		
	Topsoil, black-----	2	2
	Clay, silty, yellow-----	16	18
	Clay, blue-----	17	35
	Gravel, coarse-----	3	38
	Clay, blue-----	1	39

130-063-23AAA
Test hole 5111
(Log from Naplin, 1973)

Altitude: 1467 feet	Date drilled: 8/19/68		
Glacial drift:			
	Topsoil, clayey, sandy, silty, brownish-black-----	1	1
	Clay, moderately sandy, silty, pebbly, moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	14	15
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive to moderately cohesive, plastic to moderately plastic, calcareous (till)-----	102	117
Pierre Formation:			
	Shale, medium-dark-gray to grayish-black, very slightly siliceous, indurated, noncalcareous, non-fractured-----	43	160

130-063-25BBB
 Test hole 5112
 (Log from Naplin, 1973)

Altitude: 1461 feet Date drilled: 8/19/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, clayey, sandy, brownish-black-----	1	1
	Clay, slightly sandy, silty, pebbly, moderate-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	13	14
	Clay, silty, pebbly, olive-gray, moderately cohesive to cohesive, moderately plastic, calcareous (till)-----	34	48
	Sand, very fine to fine-grained, subangular to subrounded, fair sorting, mostly quartz, some carbonates-----	1	49
	Clay, slightly sandy, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	9	58
	Sand, very fine to fine-grained, subangular to subrounded, fair sorting, mostly quartz-----	2	60
	Clay, silty, very slightly sandy, pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	64	124
Pierre Formation:			
	Shale, slightly siliceous, medium-dark-gray to grayish-black, indurated, noncalcareous, non-fractured, a few light-olive-gray bentonitic laminations-----	16	140

130-063-32AAA
 Test hole 5114
 (Log from Naplin, 1973)

Altitude: 1484 feet Date drilled: 8/19/68

Glacial drift:			
	Topsoil, sandy, clayey, silty, brownish-black-----	1	1
	Clay, slightly sandy, silty, occasional pebbles, moderate-yellowish-brown to dark-yellowish-brown, moderately cohesive, plastic, oxidized (till)-----	21	22
	Clay, sandy, silty, pebbly, olive-gray, moderately cohesive, plastic (till)-----	10	32
Pierre Formation:			
	Shale, slightly siliceous, medium-dark-gray to grayish-black, moderately indurated, noncalcareous, occasional thin light-olive-gray bentonitic laminations-----	48	80

130-063-35DAA1
 Test hole 5176
 (Log from Naplin, 1973)

Altitude: 1455 feet Date drilled: 9/05/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, pebbly, brownish-black-----	1	1
	Clay, silty, slightly sandy, dusky-yellow to moderate-yellowish-brown, slightly to moderately cohesive, moderately plastic, oxidized (till)-----	8	9
	Clay, silty, pebbly, olive-gray, cohesive, plastic, calcareous (till)-----	10	19
	Gravel, fine to medium, angular to subrounded, moderately well sorted, mostly carbonates and granitics, some shale-----	3	22
	Clay, silty, pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	18	40

130-063-35DAA2
 Test hole 5174
 (Log from Naplin, 1973)

Altitude: 1450 feet Date drilled: 9/05/68

Glacial drift:			
	Topsoil, silty, sandy, pebbly, brownish-black-----	1	1
	Clay, silty, pebbly, slightly sandy, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, oxidized (till)-----	14	15
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	4	19
	Sand, very fine to medium-grained, angular to subrounded, well-sorted, mostly quartz and shale-----	6	25
	Gravel, slightly sandy, fine to coarse, angular to subrounded, fair sorting, taking water-----	8	33
	Clay, silty, slightly sandy, pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	7	40

130-063-35DAD
 Test hole 5175
 (Log from Naplin, 1973)

Altitude: 1452 feet Date drilled: 9/05/68

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy, clayey, brownish-black-----	1	1
	Clay, silty, slightly sandy, pebbly, dusky-yellow to moderate-yellowish-brown, moderately cohesive, moderately plastic, calcareous, oxidized (till)-----	13	14
	Clay, silty, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	8	22
	Gravel, slightly sandy, fine to coarse, angular to subrounded, moderately well sorted, mostly carbonates, some shale and granitics-----	6	28
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	12	40

130-063-36BBB
 Test hole 5113
 (Log from Naplin, 1973)

Altitude: 1457 feet Date drilled: 8/19/68

Glacial drift:			
	Topsoil, clayey, sandy, black-----	1	1
	Clay, slightly sandy, silty, pebbly, moderate-yellowish-brown, cohesive to moderately cohesive, moderately plastic, oxidized (till)-----	14	15
	Clay, silty, pebbly, olive-gray, cohesive, moderately plastic, calcareous (till)-----	29	44
	Sand, fine- to coarse-grained, angular to subrounded, moderately well sorted, mostly carbonates, some shale and lignite-----	5	49
	Clay, silty, slightly sandy, pebbly, olive-gray, moderately cohesive, moderately plastic, calcareous (till)-----	2	51
	Gravel, silty, clayey, very slightly sandy, fine to medium, angular to subrounded, fair sorting, mostly carbonates, some granitics and shale, small percent lignite-----	4	55
	Clay, silty, pebbly, olive-gray, moderately cohesive to cohesive, plastic to slightly plastic, calcareous (till)-----	73	128
Pierre Formation:			
	Shale, slightly siliceous, medium-dark-gray to grayish-black, indurated, noncalcareous, non-fractured, a few light-olive-gray bentonitic laminations-----	12	140

130-063-36CCD
(Log from Albrecht Well Work)

Altitude:	1450 feet	Date drilled:	10/04/74
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil, black-----	2	2
	Clay, silty, yellow, fine sand mixed in-----	16	18
	Clay, blue, some stones-----	37	55
	Sand, gray-----	5	60

130-064-13BBB
NDSWC 9157

Altitude:	1515 feet	Date drilled:	10/09/74
Glacial drift:	Silt, sandy, moderate-yellowish-brown, oxidized-----	1	1
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	10	11
	Sand and gravel, fine to very coarse, dark-gray, subangular to rounded; 60 percent quartz, 20 percent shale, 15 percent carbonate, and 5 percent igneous grains and pebbles-----	14	25
	Clay, silty, very sandy, pebbly, dark-gray; pebbles are predominantly shale (till)-----	18	43
Pierre Formation:	Shale, dark-gray, siliceous, brittle-----	17	60

130-064-13CDC
(Log from Albrecht Well Work)

		Date drilled:	10/09/74
	Topsoil, black-----	2	2
	Clay, sandy-----	4	6
	Clay, silty, yellow-----	12	18
	Clay, sandy-----	6	24
	Clay, silty, yellow-----	8	32
	Clay, blue-----	1	33
	Sand, light, water-----	2	35
	Sand, gravelly, dark-----	8	43

130-064-17BBB
NDSWC 9510

Altitude: 1580 feet

Date drilled: 11/13/75

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, sandy, silty, pebbly, moderate-yellowish-brown, oxidized (till)-----	15	15
	Clay, sandy, silty, pebbly, medium-dark-gray to olive-gray; gravelly with shale (till)-----	33	48
Pierre Formation:			
	Shale, silty, black to grayish-black, brittle, highly fractured-----	12	60

130-065-29ADD
NDSWC 9160

Altitude: 1700 feet

Date drilled: 10/09/74

Glacial drift:			
	Gravel, fine to coarse, sandy, angular to rounded; 75 percent carbonate, 20 percent igneous and quartz, and 5 percent shale pebbles-----	15	15
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	3	18
	Clay, silty, sandy, pebbly, dark-gray (till)-----	9	27
Pierre Formation:			
	Shale, dark-gray to grayish-black, siliceous, fractured-----	13	40

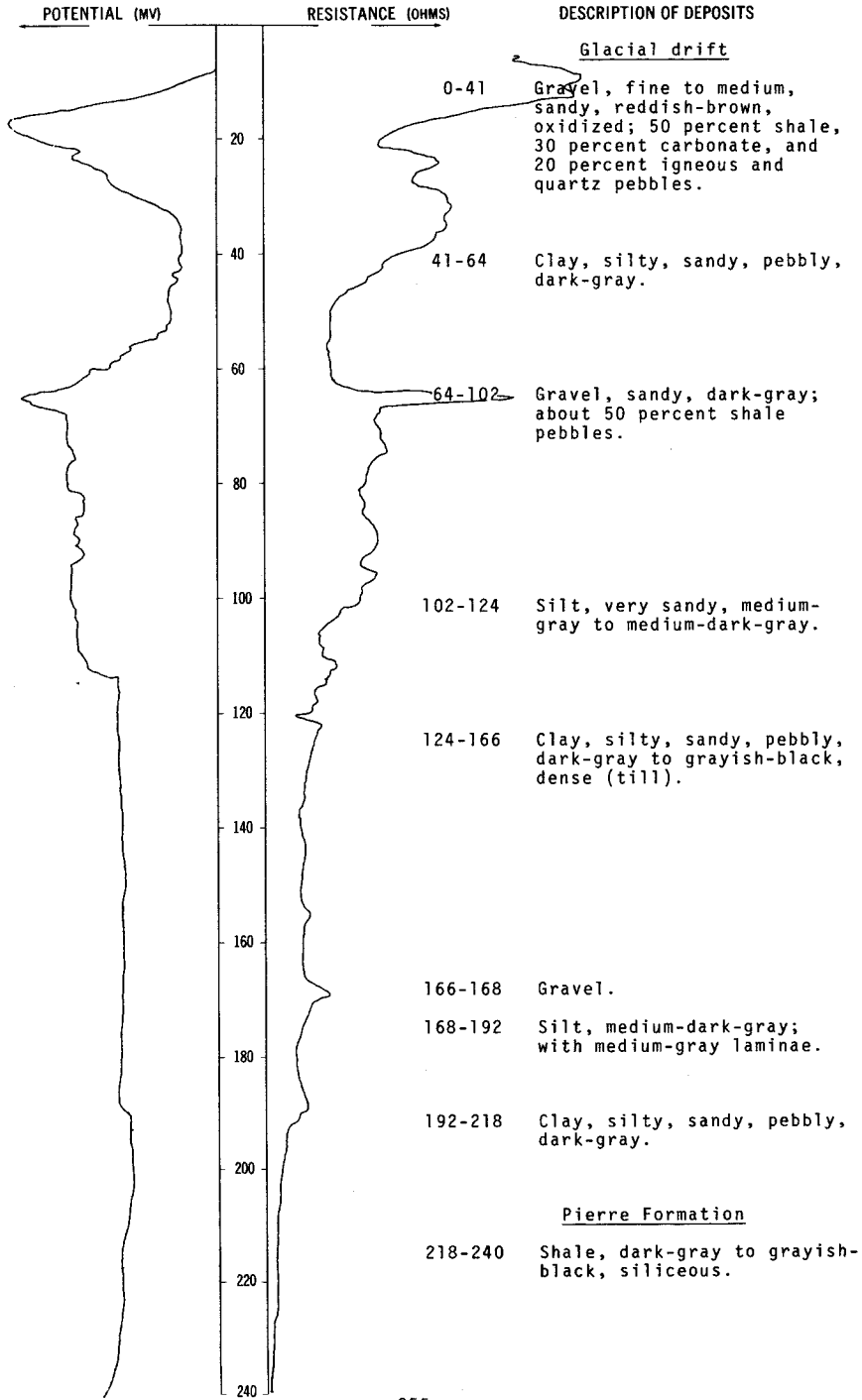
130-066-05DCC
(Log from Kamoni Well Boring)

Date drilled: 6/12/73

Glacial drift:			
	Dirt, black-----	2	2
	Clay, yellow-----	23	25
	Clay, blue-----	13	38
	Sand layer-----	1	39
	Clay, blue-----	20	59
	Sand, coarse, nice, some fine in upper part-----	3	62

LOCATION: 130-066-07DAA
 ALTITUDE: 1985
 (FT, MSL)

DATE DRILLED: 10/10/74
 DEPTH: 240
 (FT)

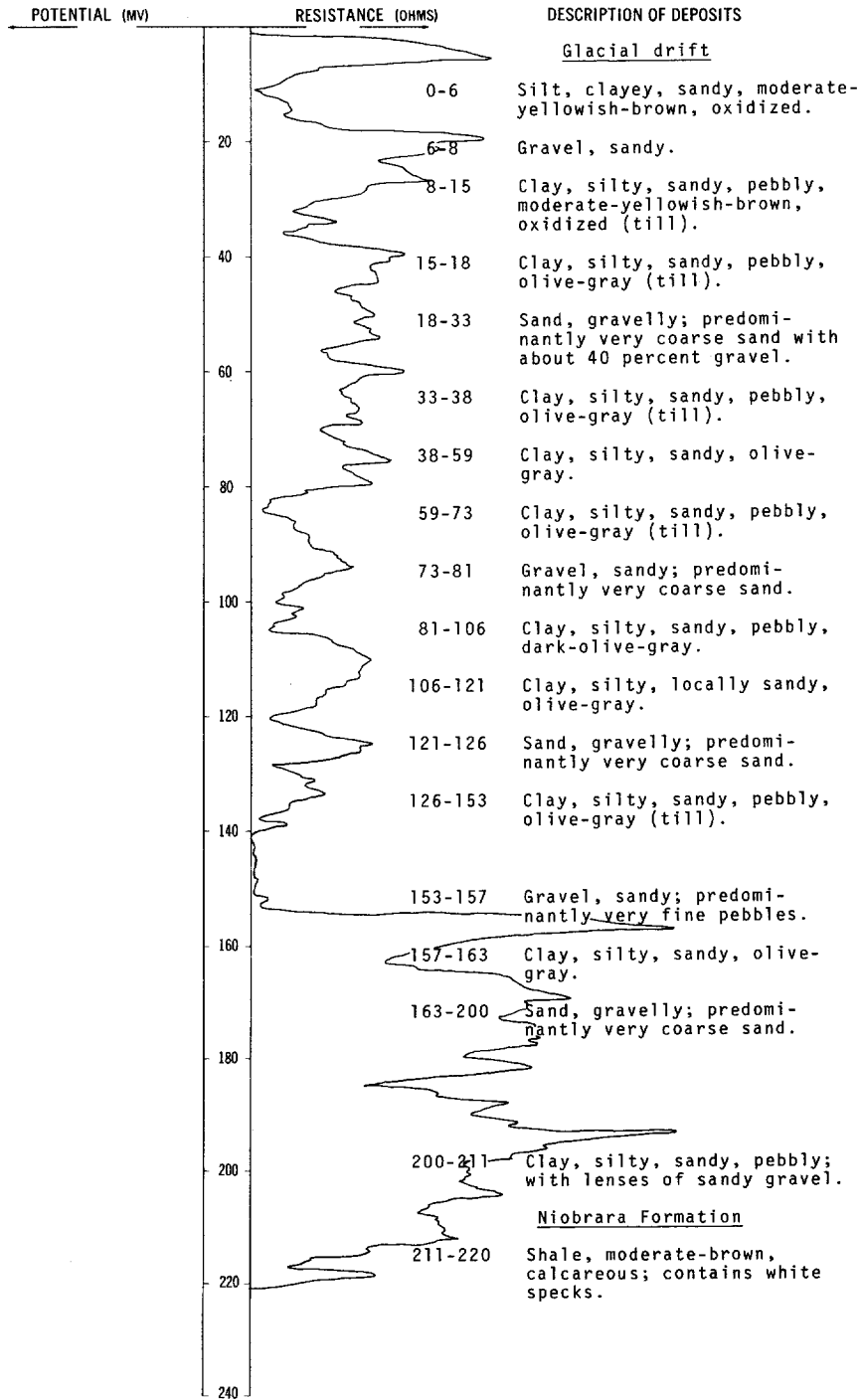


LOCATION: 131-059-01CCC

DATE DRILLED: 10/22/76

ALTITUDE: 1335
(FT, MSL)

DEPTH: 220
(FT)

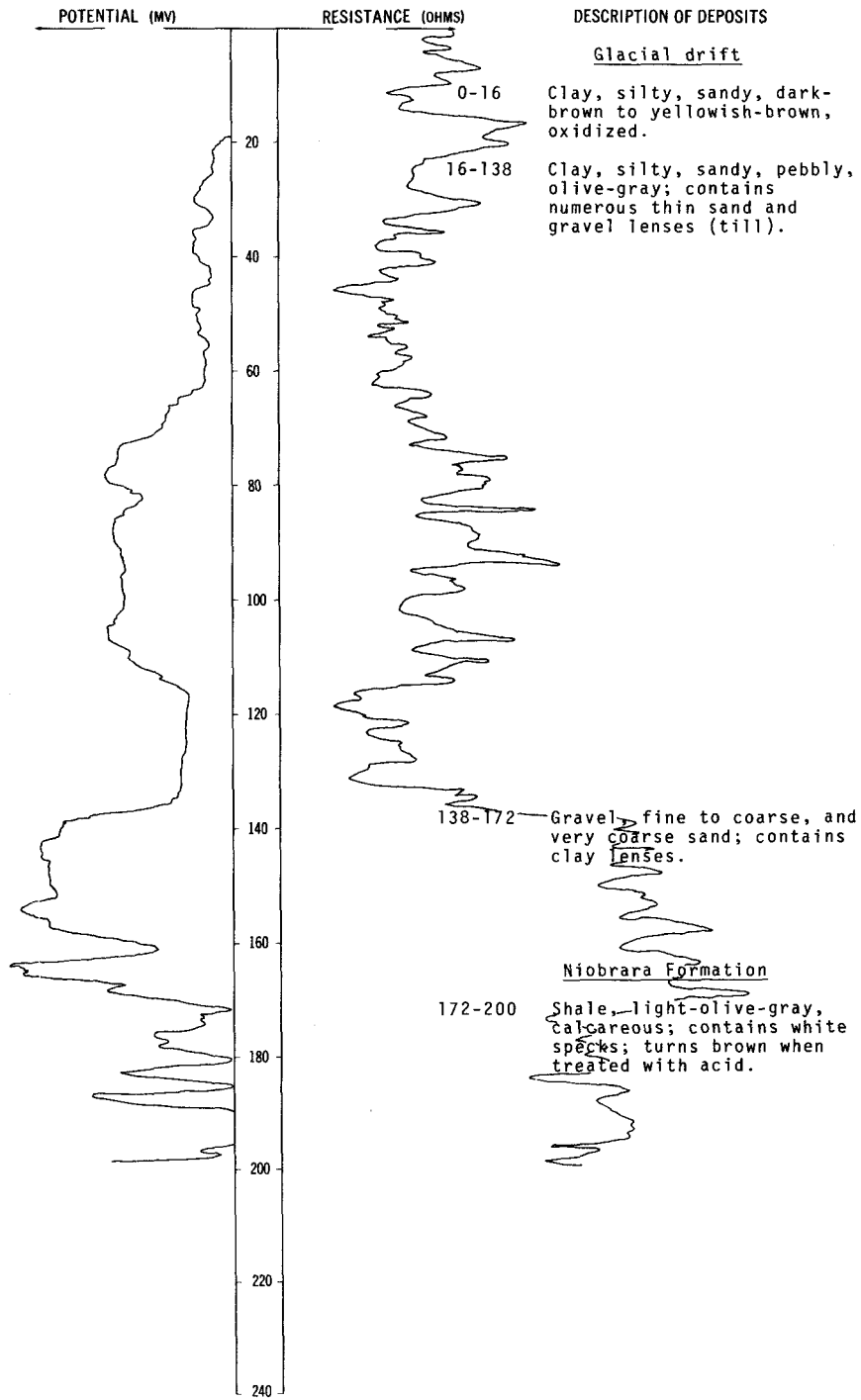


LOCATION: 131-059-01DDA

DATE DRILLED: 10/22/75

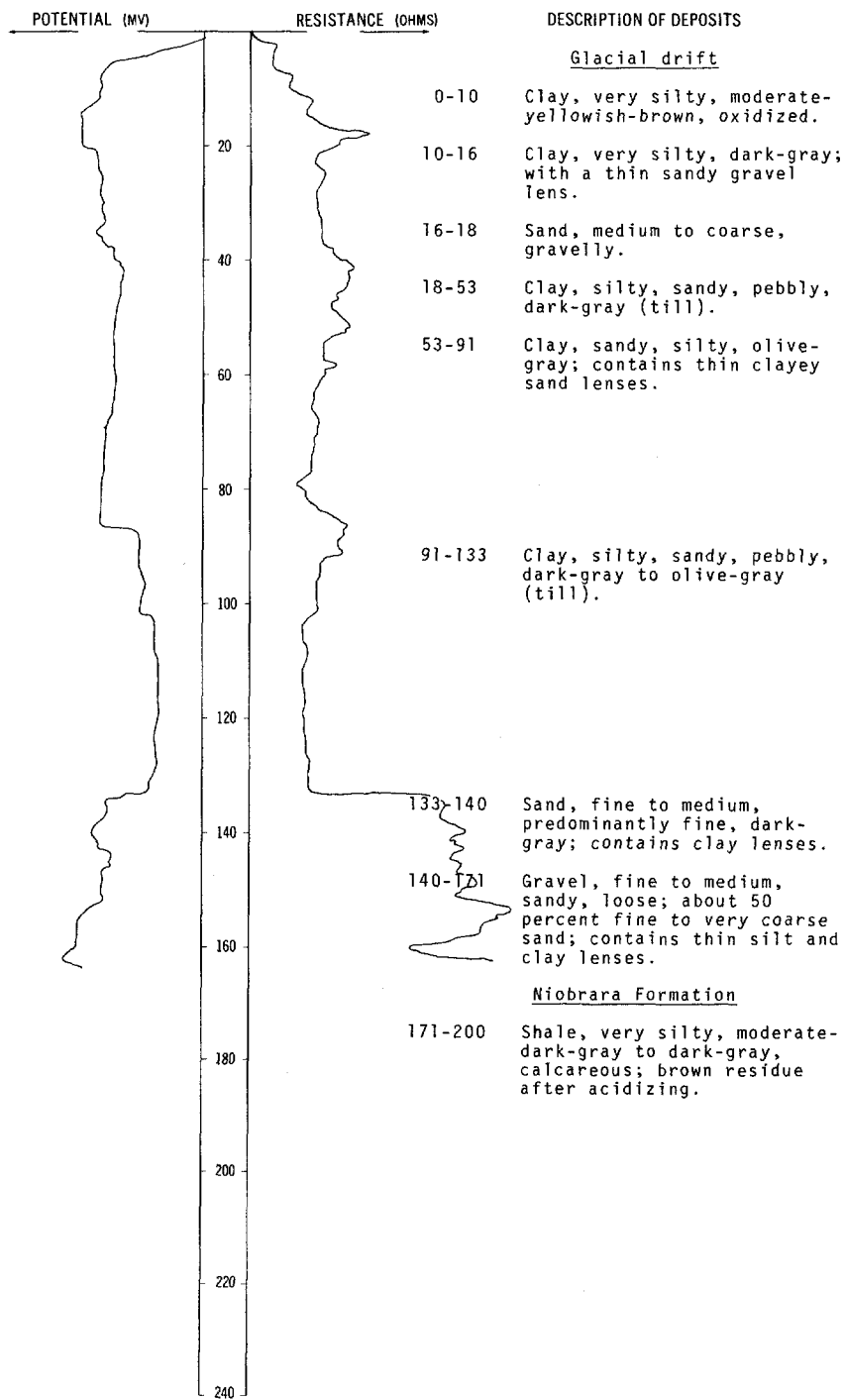
ALTITUDE: 1328
(FT, MSL)

DEPTH: 200
(FT)



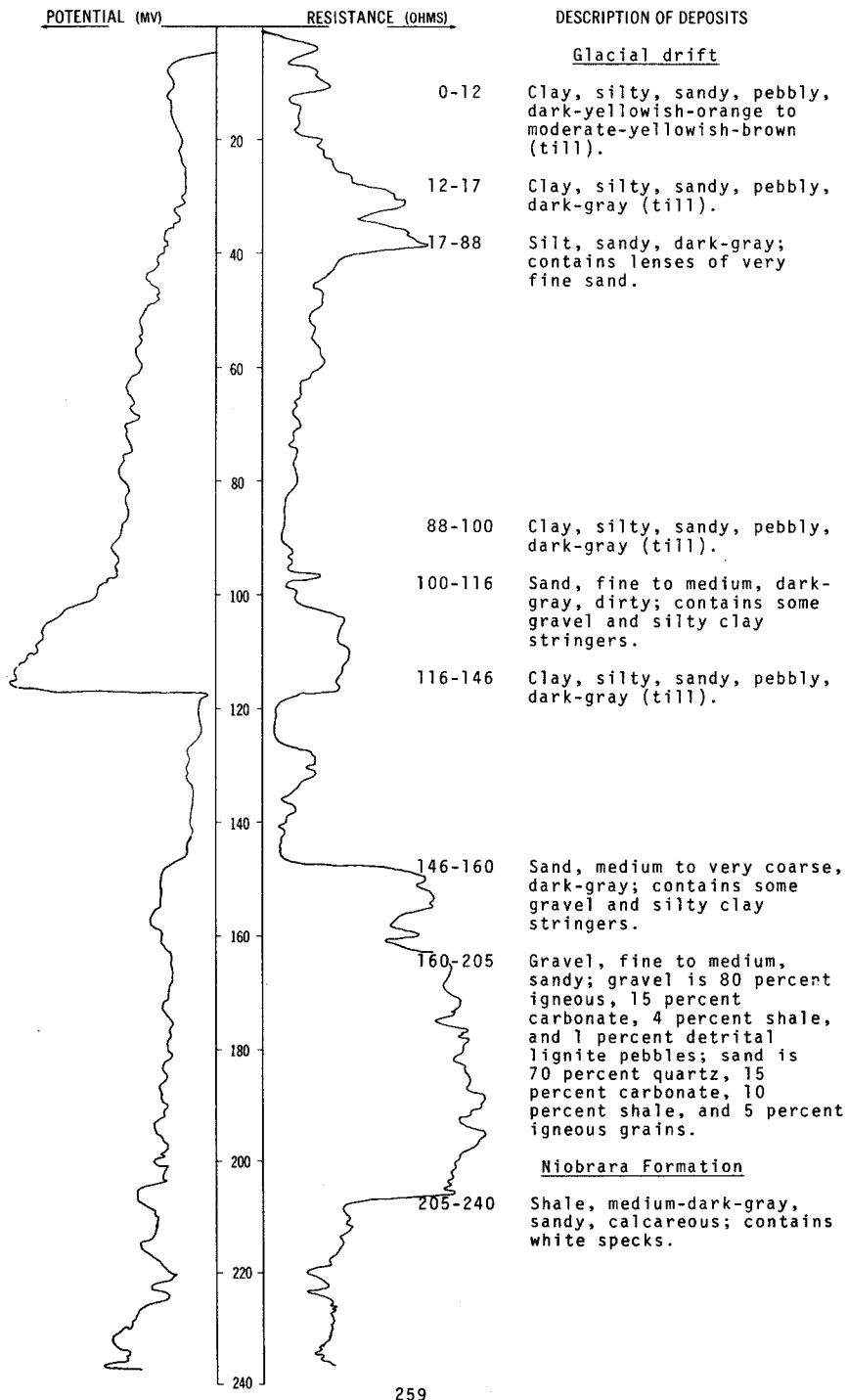
LOCATION: 131-059-02AAA
 ALTITUDE: 1314
 (FT, MSL)

DATE DRILLED: 9/26/74
 DEPTH: 200
 (FT)



LOCATION: 131-059-03BBB
 ALTITUDE: 1328
 (FT, MSL)

DATE DRILLED: 9/26/74
 DEPTH: 240
 (FT)



131-059-04AAD
(Log from Falk Bros. Well Drilling)

Date drilled: 11/ /72

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, yellow-----	12	12
	Gravel-----	38	50
	Shale-----	101	151
	Sand-----	6	157

131-059-04BDB
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1340 feet

Date drilled: 4/08/74

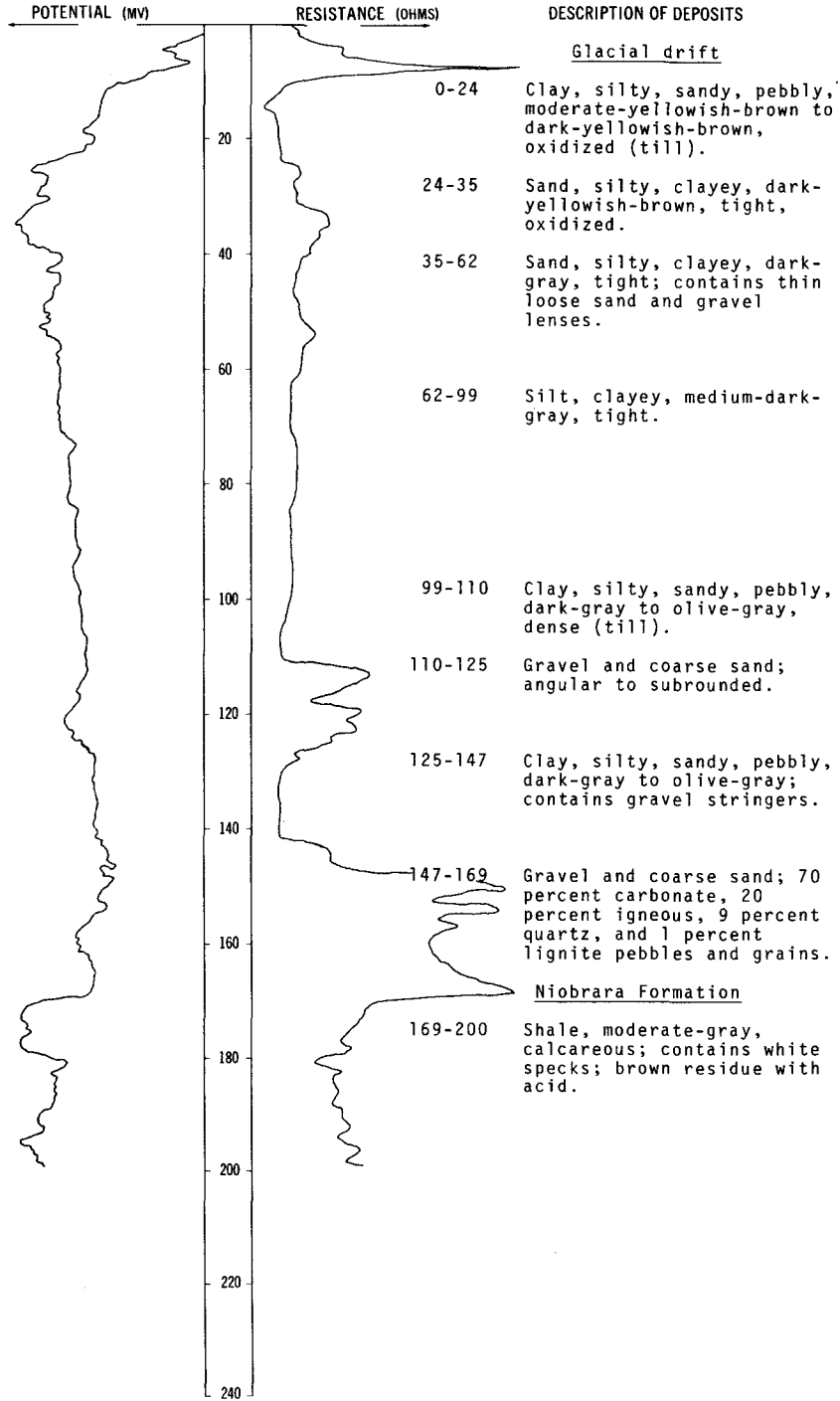
	Topsoil-----	2	2
	Sand, medium-----	53	55
	Till, gray-----	85	140
	Silt, hard-----	30	170
	Gravel and boulders-----	15	185
	Chalk rock-----	5	190

LOCATION: 131-059-05BBB

DATE DRILLED: 9/26/74

ALTITUDE: 1349
(FT, MSL)

DEPTH: 200
(FT)



131-059-05DDD
 USBR Oakes-38

Altitude: 1308 feet

Date drilled: 4/06/51

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil-----	1	1
	Clay, silty, buff, slightly plastic, iron-stained-----	8	9
	Sand, fine to medium, gray, poorly sorted, loose, clean-----	13	22
	Clay, silty, sandy, pebbly, gray, plastic-----	8	30

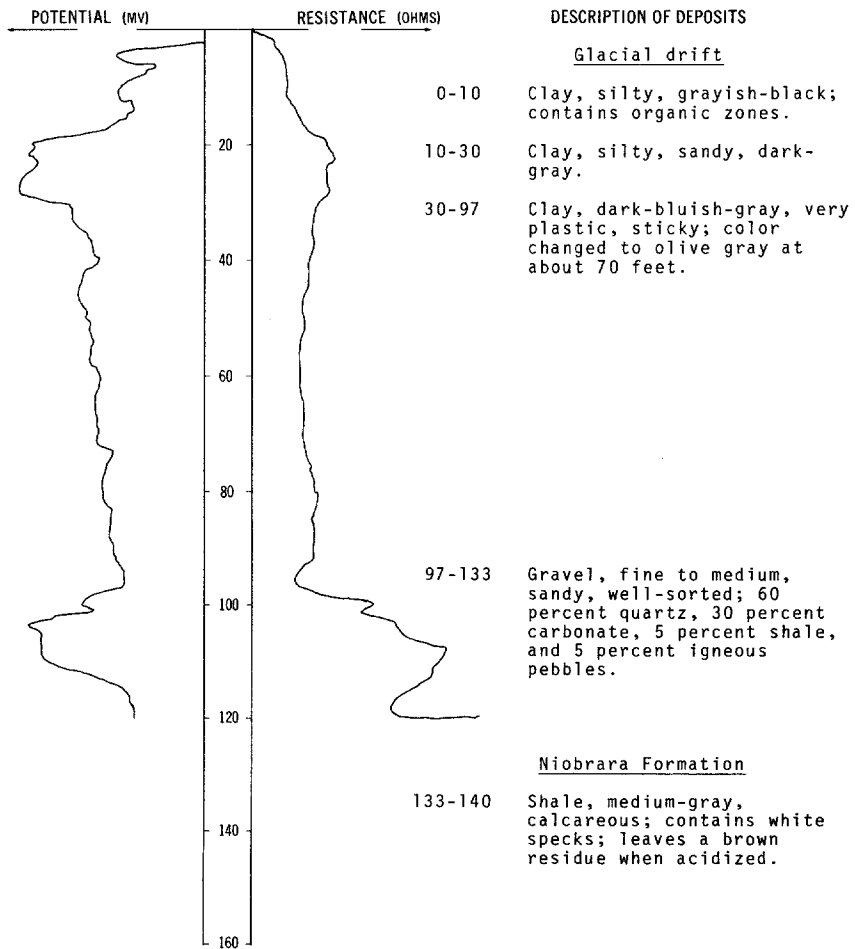
NDSWC 9132

LOCATION: 131-059-06BBB

DATE DRILLED: 9/26/74

ALTITUDE: 1292
 (FT, MSL)

DEPTH: 140
 (FT)



131-059-08DDD
(Log from Wieber Well Drilling)

Altitude: 1330 feet	Date drilled: 10/20/72		
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Black dirt-----	1	1
	Sand and gravel-----	5	6
	Clay, sandy-----	4	10
	Sand, fine, silty, dirty-----	5	15
	Sand, coarse, water-----	15	30

131-059-09ABC
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/09/74		
Topsoil-----	2	2
Gravel-----	13	15
Till, gray-----	13	28
Gravel-----	4	32
Till, gray-----	13	45
Clay, silty-----	33	78
Till, gray-----	22	100
Gravel-----	12	112
Till, gray-----	38	150
Chalk rock-----	10	160

131-059-09BAD
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 7/17/75		
Soil-----	2	2
Sand and gravel-----	13	15
Till, clay, gray-----	13	28
Sand and gravel-----	73	101
Till, gray-----	--	101

131-059-09CCB
(Log from Wieber Well Drilling)

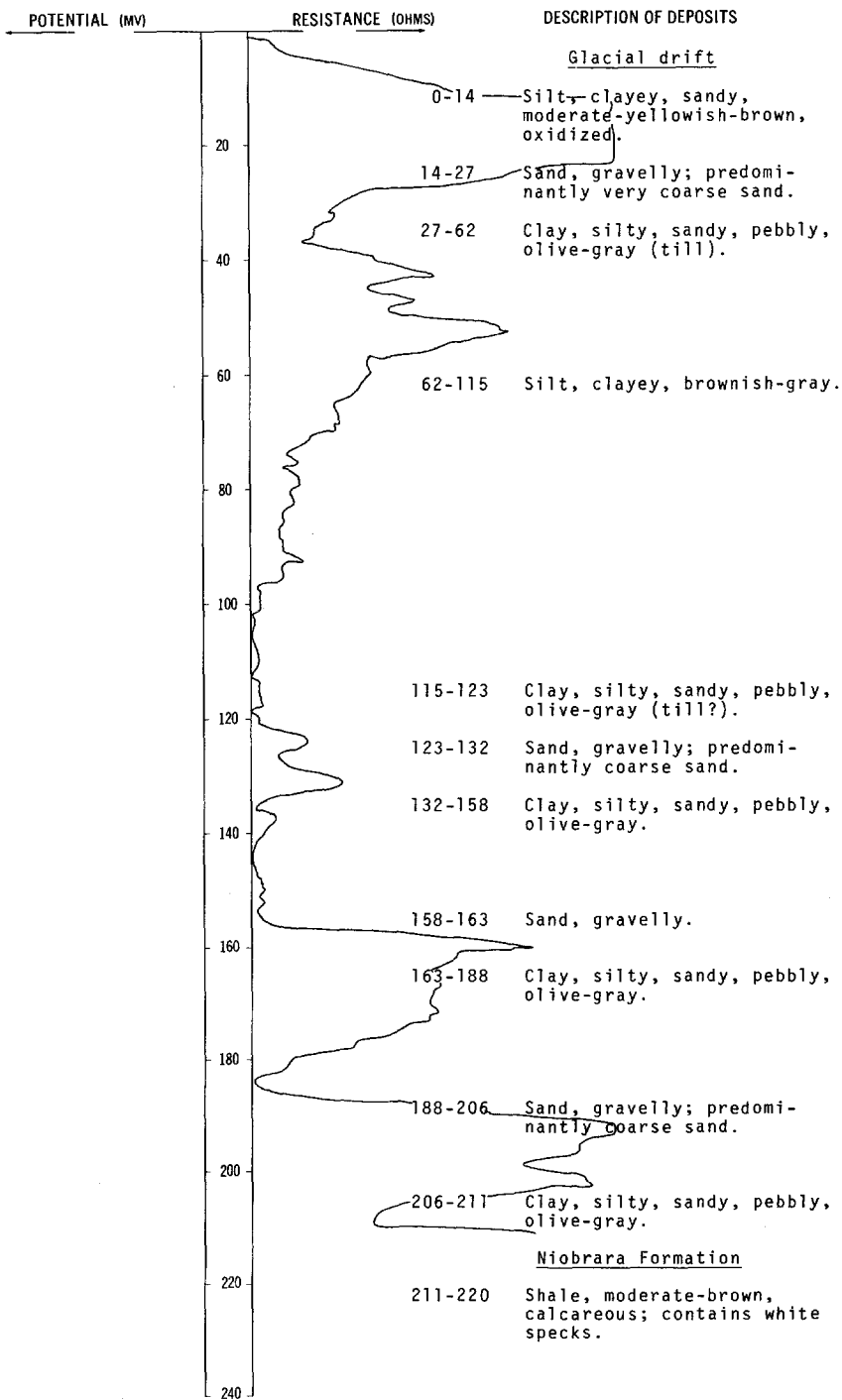
Altitude: 1335 feet	Date drilled: 10/03/74	
Topsoil-----	1	1
Sand, grit-----	2	3
Clay, yellow-----	12	15
Clay, blue-----	5	20
Sand, medium-----	10	30

131-059-09DBD
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 10/09/74		
Topsoil-----	2	2
Sand and gravel-----	24	26
Clay-----	2	28
Gravel-----	8	36
Till, gray-----	24	60
Silt-----	48	108
Gravel-----	5	113
Till, gray-----	31	144
Chalk rock-----	16	160

LOCATION: 131-059-10BBA
 ALTITUDE: 1345
 (FT, MSL)

DATE DRILLED: 10/21/76
 DEPTH: 220
 (FT)

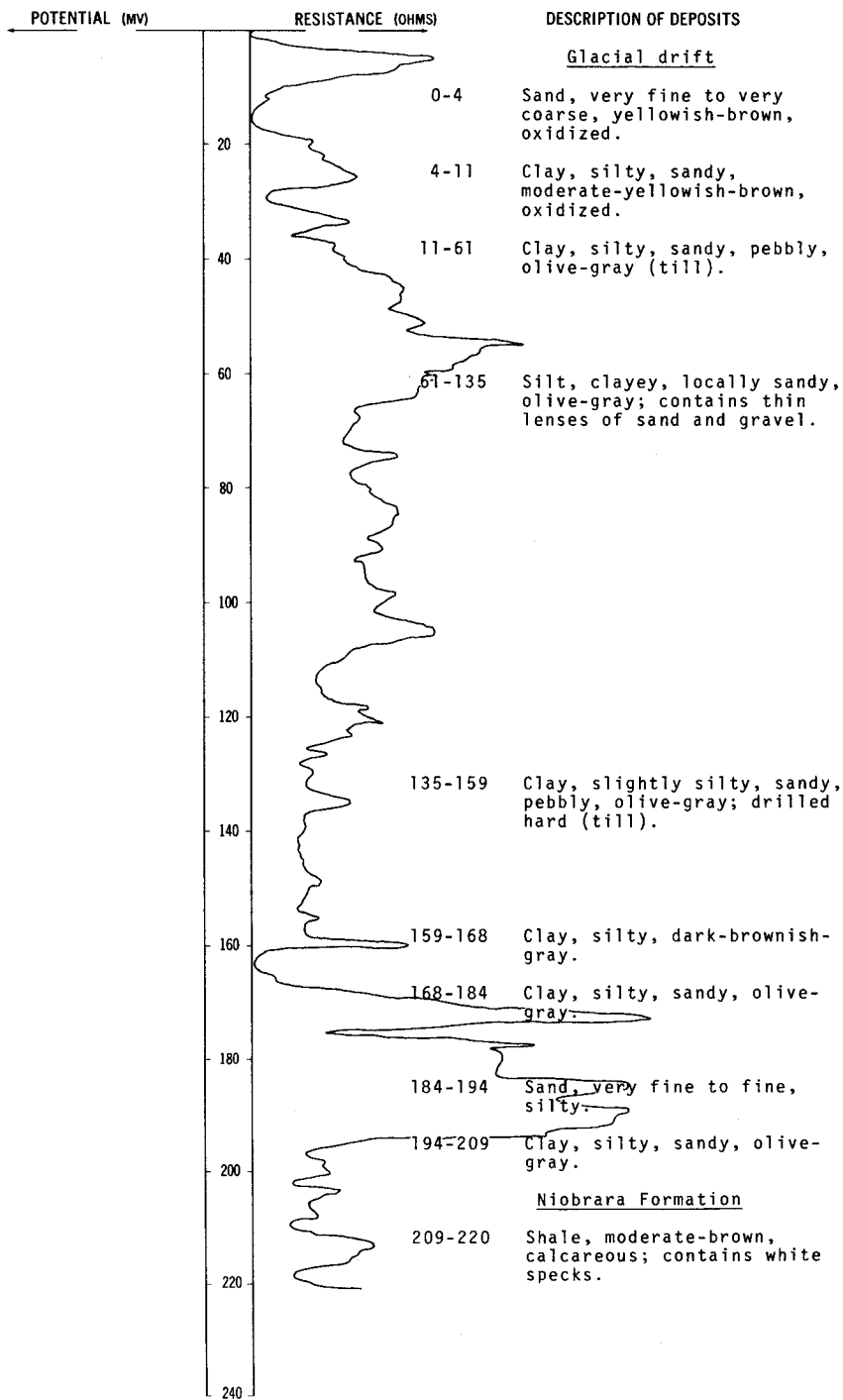


LOCATION: 131-059-11BBB

DATE DRILLED: 10/21/76

ALTITUDE: 1340
(FT. MSL)

DEPTH: 220
(FT)



131-059-12CCC
NDSWC 9826

Altitude: 1364 feet

Date drilled: 10/26/76

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Clay, silty, moderate-yellowish-brown-----	7	7
	Sand, gravelly; predominantly coarse sand; 55 percent quartz, 20 percent limestone, and 15 percent shale pebbles-----	46	53
	Clay, silty, sandy, slightly pebbly, moderate-yellowish-brown, oxidized-----	9	62
	Sand, gravelly; predominantly coarse sand; about 30 percent shale pebbles-----	10	72
	Clay, silty, sandy, pebbly, olive-gray-----	50	122
	Sand, gravelly; predominantly coarse sand, 15 percent gravel-----	11	133
	Clay, silty, sandy, pebbly, olive-gray-----	9	142
	Sand, gravelly; predominantly coarse to very coarse sand; 35 percent gravel-----	9	151
	Clay, silty, sandy, pebbly, olive-gray; contains lenses of sand and gravel-----	35	186
	Sand, gravelly; predominantly coarse to very coarse sand; 40 percent gravel-----	8	194
	Clay, silty, sandy, olive-gray-----	4	198
	Sand, gravelly; predominantly coarse to very coarse sand-----	28	226
	Gravel, sandy; 45 percent medium to very coarse sand-----	25	251
Niobrara Formation:			
	Shale, moderate-brown, calcareous; contains white specks-----	9	260

131-059-14CAC
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 9/24/74

Topsoil-----	2	2
Till, yellow-----	16	18
Sand and gravel-----	25	43
Clay, silty, sandy-----	97	140
Gravel-----	10	150
Silt, sandy-----	30	180
Sand, medium to coarse-----	20	200
Gravel, coarse-----	15	215

131-059-15AAA1
NDSWC 9122

Altitude: 1348 feet

Date drilled: 9/20/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Silt, sandy, dark-yellowish-orange to moderate-yellowish-brown, oxidized; contains coarse sand and fine gravel lenses-----	25	25
	Sand, medium to very coarse, moderate-yellowish-brown, angular to subrounded, iron-stained; contains about 20 percent gravel-----	23	48
	Clay, silty, sandy, pebbly, dark-gray, firm; contains some sandy and shaly gravel lenses-----	34	82
	Silt, olive-gray, dense; contains thin sand and gravel lenses-----	12	94
	Clay, silty, sandy, pebbly, olive-gray (till)-----	66	160
	Gravel, fine to coarse; with a few boulders-----	12	172
	Clay, silty, sandy, pebbly, olive-gray (till)-----	10	182
	Sand, fine to very coarse, predominantly coarse, moderate-gray; contains thin silt lenses-----	21	203
Niobrara Formation:			
	Shale, medium-gray, calcareous; brown residue when acidized-----	17	220

131-059-15BBB
NDSWC 9121

Altitude: 1342 feet

Date drilled: 9/20/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Sand, medium to very coarse, dark-yellowish-brown, iron-stained; contains about 35 percent gravel-----	30	30
	Silt, clayey, dark-gray to medium-dark-gray; contains thin sand and gravel lenses-----	79	109
	Clay, silty, sandy, pebbly, dark-gray to olive-gray (till)-----	14	123
	Sand, fine to medium, clayey; about 30 percent gravel-----	11	134
	Clay, silty, sandy, pebbly, olive-gray, dense-----	35	169
	Sand, fine to coarse, silty, dark-gray, subangular to subrounded-----	18	187
	Boulders, cobbles, and pebbles; rough drilling-----	4	191
	Clay, silty, sandy, pebbly, olive-gray-----	9	200
Niobrara Formation:			
	Shale, medium-gray, calcareous; brown residue when acidized-----	20	220

131-059-15DDB
(Log from Green Circle Supply Co.)

Date drilled: 1/31/75

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil-----	1	1
	Sand, silty, tan; brown gravel; oxidized clay-----	5	6
	Sand, silty, gravelly, brown, oxidized-----	7	13
	Sand and gravel, fine, silty, brown, oxidized-----	7	20
	Sand, medium to coarse-----	25	45
	Gravel and sand, clayey, rocks to 2 inches (till)-----	2	47
	Till, sandy, gray, soft, moist-----	13	60
	Till, gray, firm, plastic-----	20	80
	Till, gray, alternately soft and hard, sand lenses, moist-----	86	166
	Boulder-----	1	167
	Till, gray, hard-----	1	168
	Boulder-----	--	168

131-059-16AAB
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/10/74

	Topsoil-----	2	2
	Clay-----	4	6
	Gravel-----	19	25
	Clay-----	35	60

131-059-16ACC
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/10/74

	Topsoil-----	2	2
	Sand and gravel-----	13	15
	Clay-----	65	80
	Sand, clay layers-----	30	110
	Sand and gravel-----	15	125
	Clay (till)-----	13	138
	Sand, medium-----	22	160
	Gravel and sand-----	10	170
	Gravel, coarse-----	20	190

131-059-16CCC1
USBR Oakes-36

Altitude:	1322 feet	Date drilled:	4/03/51
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	1	1
	Sand, fine, very silty, some gravel, brown-----	9	10
	Sand and gravel, fine to medium sand, medium gravel, silty, some clay, brown, loose-----	12	22
	Clay, silty, sandy, gray, slightly plastic, fine gravel and shale particles-----	8	30

131-059-17AAA1
NDSWC 9120

Altitude:	1333 feet	Date drilled:	9/19/74
Glacial drift:			
	Sand, coarse to very coarse, gravelly, dark-yellowish-brown, loose-----	30	30
	Silt, sandy, dark-gray, tight, slightly plastic, dense; lenses of sand and gravel-----	60	90
	Silt, dark-gray, tight, moderately plastic; clayey zones; sand and gravel lenses; boulders from 128 to 138 feet-----	48	138
Niobrara Formation:			
	Shale, medium-gray, calcareous, plastic, soft-----	22	160

131-059-17ACA
(Log from Empire Irrigation & Drilling Co., Inc.)

		Date drilled:	4/09/74
	Topsoil-----	2	2
	Clay, sandy-----	5	7
	Gravel-----	8	15
	Clay, sandy layers (till)-----	100	115
	Sand and gravel-----	10	125
	Clay, hard, chalk rock-----	15	140

131-059-17DAA
USBR W-1

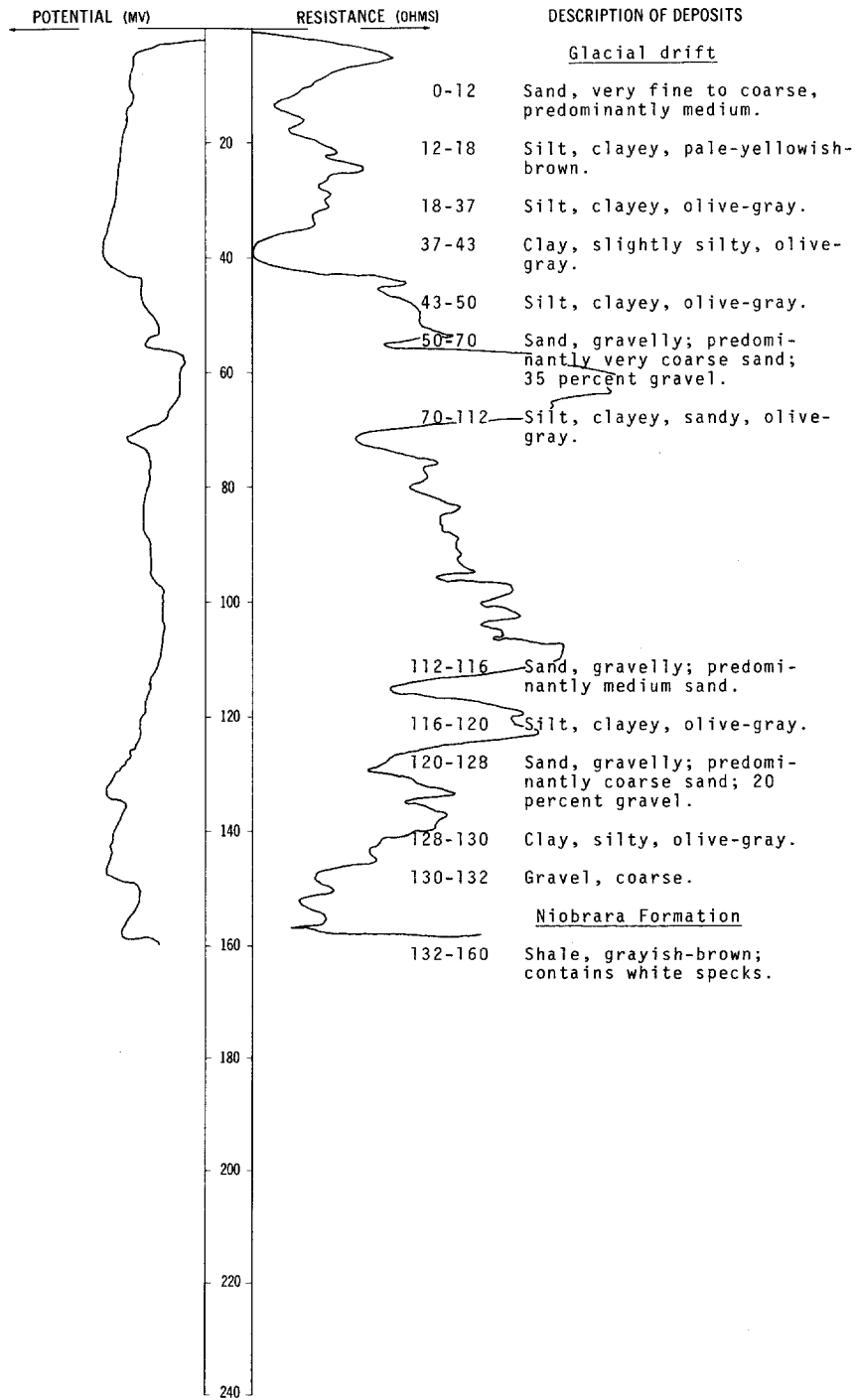
Altitude:	1331 feet	Date drilled:	6/08/66
	Loam, sandy-----	3	3
	Sand, fine-----	10	13
	Sand, coarse-----	2	15
	Sand and gravel-----	5	20

LOCATION: 131-059-17DCC

DATE DRILLED: 10/26/76

ALTITUDE: 1304
(FT, MSL)

DEPTH: 160
(FT)



131-059-17DDC1
USBR Oakes-OHA

Altitude:	1330 feet	Date drilled:	4/19/51
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil-----	2	2
	Sand, medium, brown-----	13	15
	Sand, coarse; fine gravel throughout-----	15	30
	Sand, medium, gray-----	20	50
	Sand, fine, gray, lignitic-----	30	80

131-059-17DDC2
USBR Oakes-OHC

Altitude:	1330 feet	Date drilled:	4/20/51
	Topsoil-----	1	1
	Sand, silty, brown-----	1.2	2.2
	Sand, medium, gravelly, brown-----	11.8	14
	Sand, coarse, gravelly, brown-----	19	33
	Silt, gray-----	2	35
	Sand, medium, gravelly, gray, lignitic-----	19	54
	Sand and gravel, medium, lignitic-----	2	56
	Sand, medium, gravelly, gray; shale and lignite-----	24	80

131-059-17DDC3
USBR Oakes-OHD

Altitude:	1329 feet	Date drilled:	4/20/51
	Topsoil-----	1	1
	Silt, sandy, brown-----	9	10
	Sand, medium, brown-----	6	16
	Sand and gravel, coarse-----	14	30
	Sand, fine, silty, gray-----	15	45
	Sand, medium, gray-----	15	60
	Sand, medium, gray; small proportion of gravel and lignite-----	20	80

131-059-17DDC4
 USBR Oakes-OHF

Altitude: 1327 feet

Date drilled: 4/19/51

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil-----	1	1
	Sand, medium, gravelly, brown-----	34	35
	Silt and sand, gray-----	4	39
	Sand, medium, silty, gray-----	15.5	54.5
	Sand and gravel, medium, gray, lignitic-----	17.5	72
	Sand, fine, silty, gray-----	8	80

131-059-17DDC5
 USBR Oakes-OHB

Altitude: 1330 feet

Date drilled: 4/20/51

	Topsoil-----	2	2
	Sand, medium, buff-----	8	10
	Sand, coarse, gravelly-----	11	21
	Sand, medium, gray, lignitic-----	19	40
	Sand, medium, gravelly, brown-----	6	46
	Silt, gray-----	1	47
	Sand, medium, brown; fine gravel, lignite, and shale particles throughout-----	25	72
	Sand, medium, gravelly, brown-----	8	80

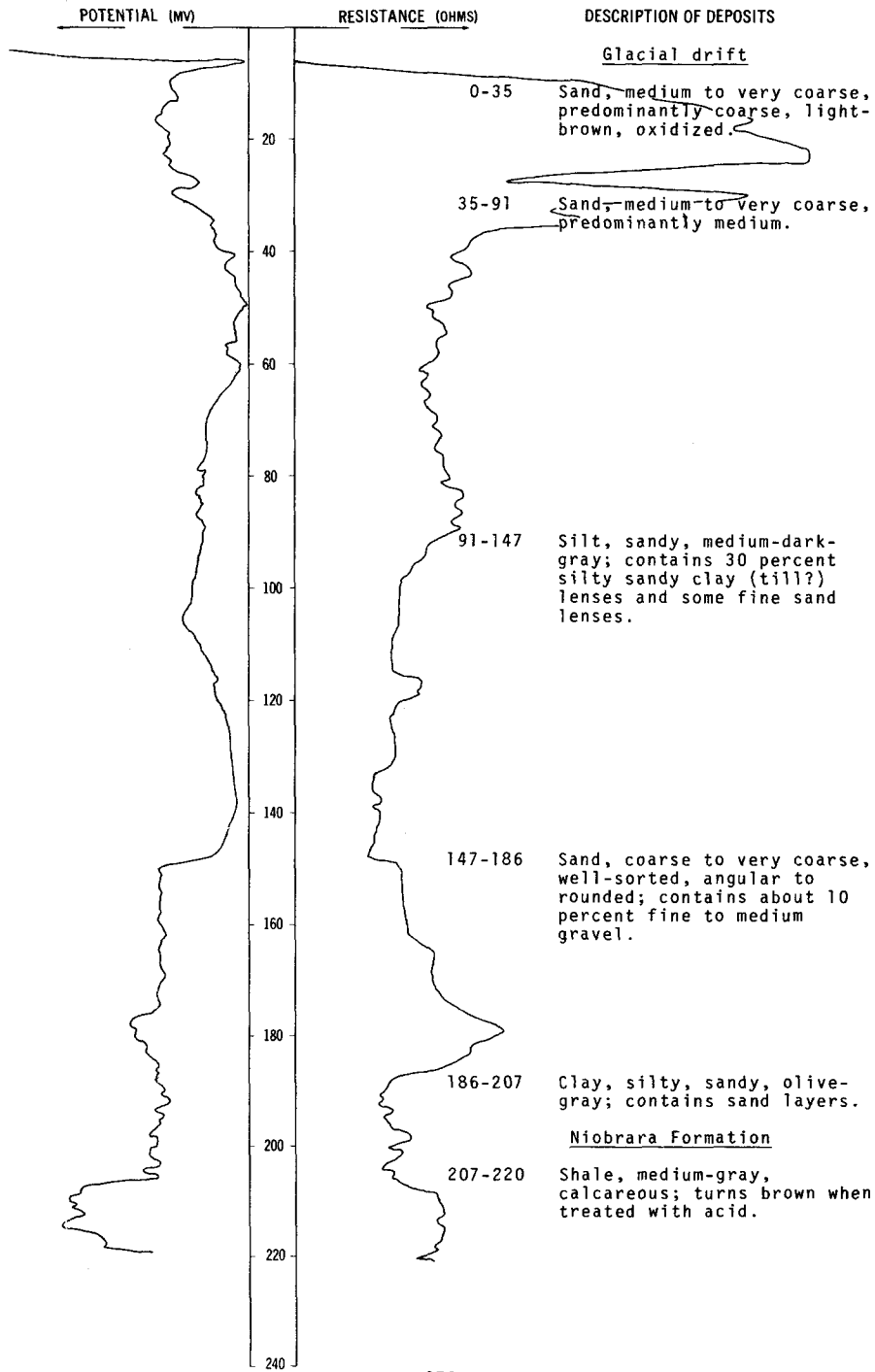
NDSWC 9118

LOCATION: 131-059-20AAA1

DATE DRILLED: 9/19/74

ALTITUDE: 1330
(FT, MSL)

DEPTH: 220
(FT)



131-059-21AAA1
USBR Oakes-60

Altitude: 1329 feet

Date drilled: 12/31/53

<u>Geologic</u> <u>source</u>	<u>Material</u>	<u>Thickness</u> <u>(feet)</u>	<u>Depth</u> <u>(feet)</u>
Glacial drift:			
	Topsoil-----	1	1
	Sand, medium, buff, uniform-----	18	19
	Sand, gravelly, buff, well-sorted-----	11	30
	Till-----	3	33

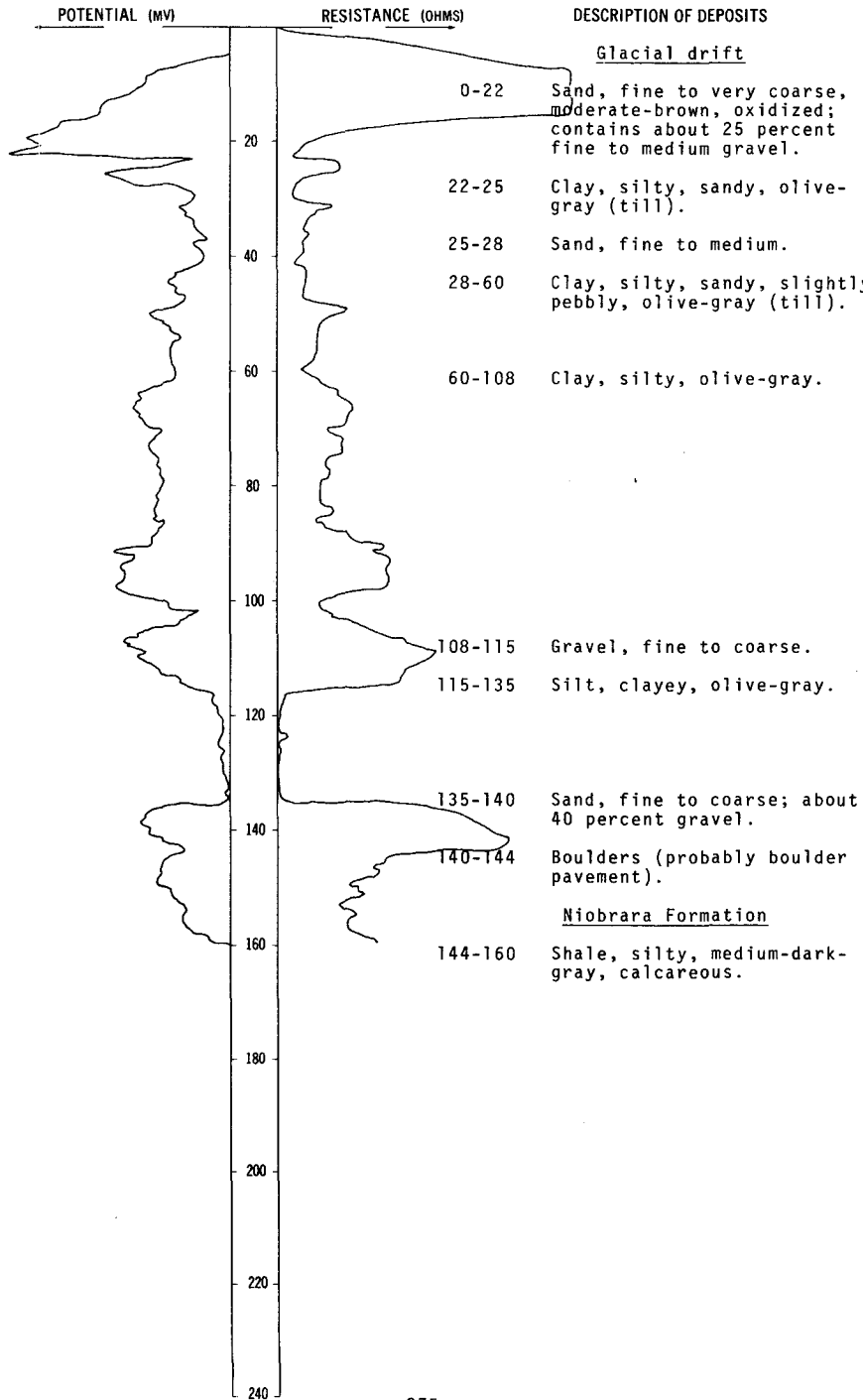
NDSWC 9119

LOCATION: 131-059-21AAA2

DATE DRILLED: 9/19/74

ALTITUDE: 1328
(FT, MSL)

DEPTH: 160
(FT)



131-059-21ACA2
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/04/73

Geologic source	Material	Thickness (feet)	Depth (feet)
	Topsoil-----	2	2
	Sand-----	40	42
	Clay, silty-----	68	110
	Sand and gravel-----	8	118
	Gravel-----	7	125
	Sand and gravel-----	5	130
	Clay-----	2	132
	Gravel-----	3	135
	Clay-----	55	190

131-059-21ADC1
USB R Oakes-63

Altitude: 1327 feet

Date drilled: 1/05/52

Glacial drift:

Topsoil-----	1	1
Sand, medium, gravelly, buff-----	23	24
Sand, fine, gravelly, gray-----	6	30
Sand, medium, gravelly; some silt-----	10	40
Sand, medium, gravelly-----	20	60
Sand, medium, gray, uniform, clean-----	22	82
Sand, silty, gray, compact-----	78	160
Till-----	3	163

131-059-22AAA
USB R Oakes-65

Altitude: 1353 feet

Date drilled: 1/08/53

Glacial drift:

Topsoil-----	1	1
Sand and gravel, well-graded-----	10	11
Sand, fine, silty, buff; has large pebbles and cobbles-----	13	24
Sand, fine to medium, buff, compact-----	11	35
Sand, fine, buff, compact; trace of silt; fine pebbles-----	27	62
Sand and gravel-----	6	68
Sand, fine, gray, uniform; trace of silt-----	163	231
Till-----	2	233

131-059-22ABC
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1314 feet

Date drilled: 5/22/73

Topsoil-----	2	2
Clay, sandy-----	8	10
Sand-----	40	50
Silt-----	68	118
Sand, fine-----	9	127
Clay-----	34	161
Clay, silty-----	34	195
Sand and gravel-----	17	212
Gravel-----	12	224
Shale-----	--	224

131-059-22ACA1
(Log from Farmer's Supply Co.)

Date drilled: 1/31/73

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil-----	3	3
	Gravel and shale, sandy-----	4	7
	Clay, sandy, yellow-----	9	16
	Gravel, fine, sandy-----	31	47
	Sand, fine, silty-----	33	80
	Sand, silty, clay-ball lenses-----	60	140
	Clay, sandy, gray, hard-----	12	152
	Sand, medium to fine-----	62	214
	Gravel, medium to coarse-----	8	222
	Gravel, coarse; boulders-----	3	225

131-059-22ACA2
(Log from Farmer's Supply Co.)

Date drilled: 1/31/73

	Soil-----	3	3
	Gravel, sandy, and shale-----	4	7
	Clay, sandy, yellow-----	19	26
	Gravel, sandy, fine-----	21	47
	Sand, fine, silty-----	33	80
	Sand, silty; with clay layers-----	60	140
	Clay, sandy, gray-----	12	152
	Sand, medium-fine-----	62	214
	Gravel, medium to coarse-----	5	219
	Boulders-----	3	222

131-059-22ACA3
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/06/73

Glacial drift:			
	Topsoil-----	2	2
	Clay, sandy-----	8	10
	Sand-----	40	50
	Silt-----	68	118
	Sand, fine-----	9	127
	Clay-----	34	161
	Clay, silty-----	34	195
	Sand and gravel-----	30	225
	Gravel-----	12	237
Niobrara Formation:			
	Shale-----	3	240

131-059-22ACC
USBR Oakes-5

Date drilled: 3/10/54

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	3	3
	Silt, sandy, buff-----	5	8
	Sand, fine to medium, buff, poorly sorted, fairly clean-----	18	26
	Sand, fine, gray, poorly sorted; trace of silt-----	22	48
	Sand, very fine, silty, gray-----	96	144
	Sand, medium, gray, poorly sorted, subangular to subrounded; trace of silt-----	11	155
	Sand, medium to coarse, gray, poorly sorted, clean-----	14	169
	Sand and gravel, clayey (till)-----	1	170

131-059-22ADD
USBR Oakes-59

Altitude: 1348 feet

Date drilled: 12/30/52

Glacial drift:			
	Topsoil-----	1	1
	Sand, medium, gravelly, buff-----	23	24
	Sand, fine, gravelly, gray, uniform-----	26	50
	Sand, fine, gray-----	6	56
	Silt-----	3	59
	Sand, gravelly-----	2	61
	Till-----	2	63

131-059-22BAA1
USBR Oakes-43

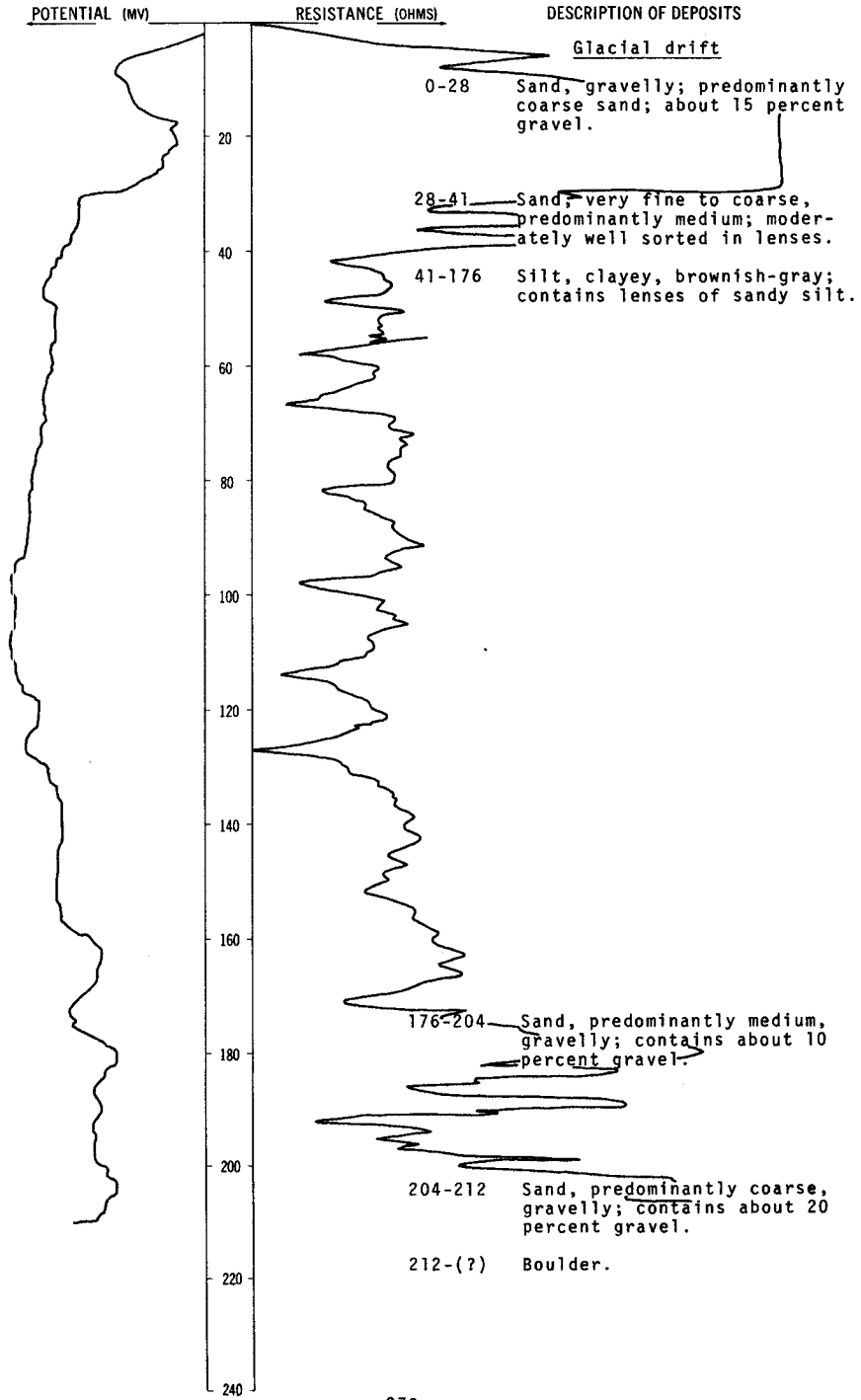
Altitude: 1340 feet

Date drilled: 5/01/51

Glacial drift:			
	Topsoil-----	2	2
	Silt, clayey, buff; some sand and gravel-----	18	20
	Sand, fine to medium, clayey, gravelly, gray; shale particles throughout-----	12	32
	Sand, medium to coarse, gray, loose, some fine gravel, clean-----	6	38
	Sand, very silty and clayey, fine to medium, gravel throughout, gray-----	9	47
	Silt and clay, sandy, gray; varving in silty areas-----	58	105

LOCATION: 131-059-22BAA2
ALTITUDE: 1338
(FT, MSL)

DATE DRILLED: 9/15/76
DEPTH: 212
(FT)

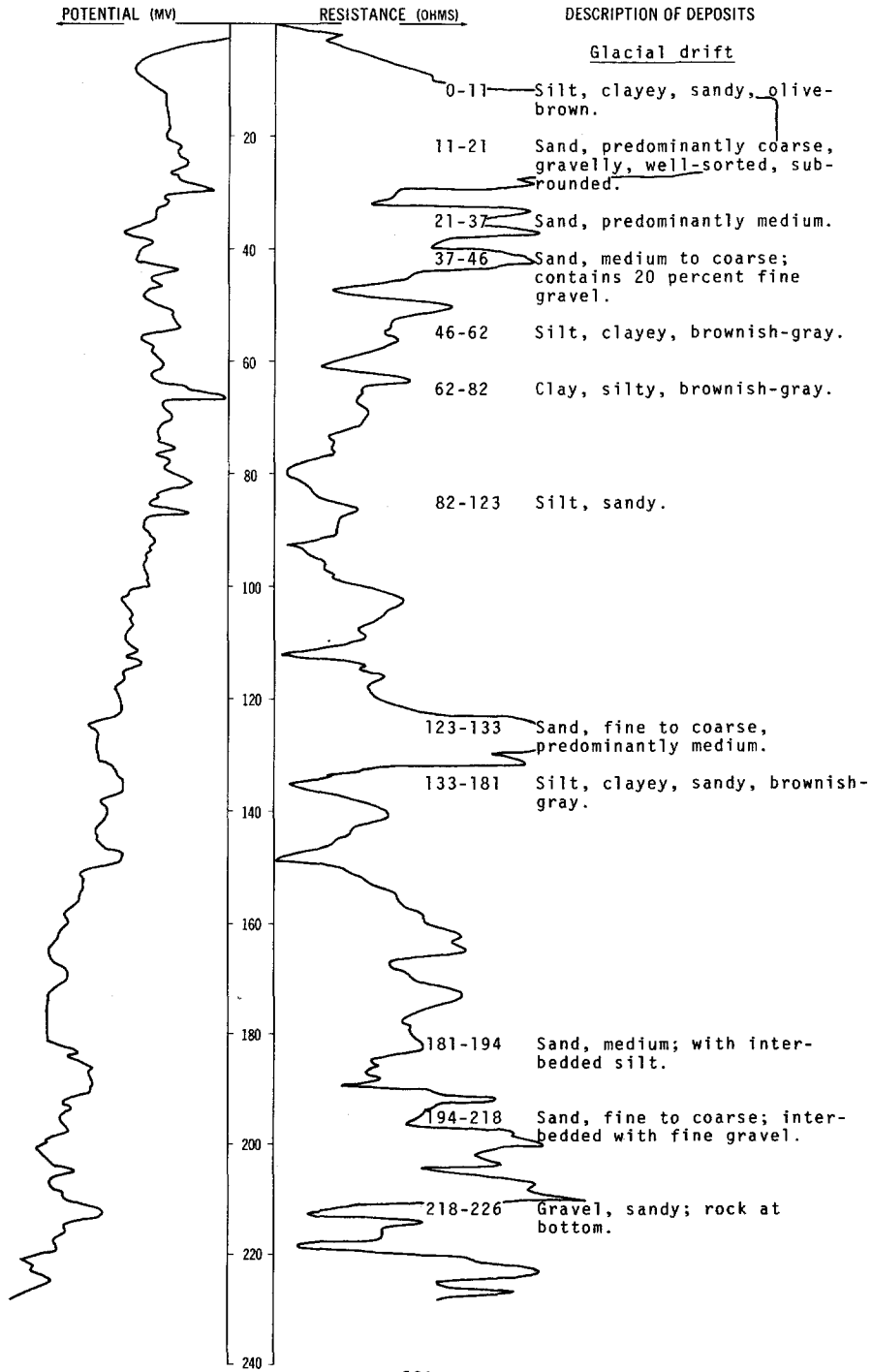


LOCATION: 131-059-22BAD

DATE DRILLED: 9/14/76

ALTITUDE:
(FT, MSL)

DEPTH: 226
(FT)

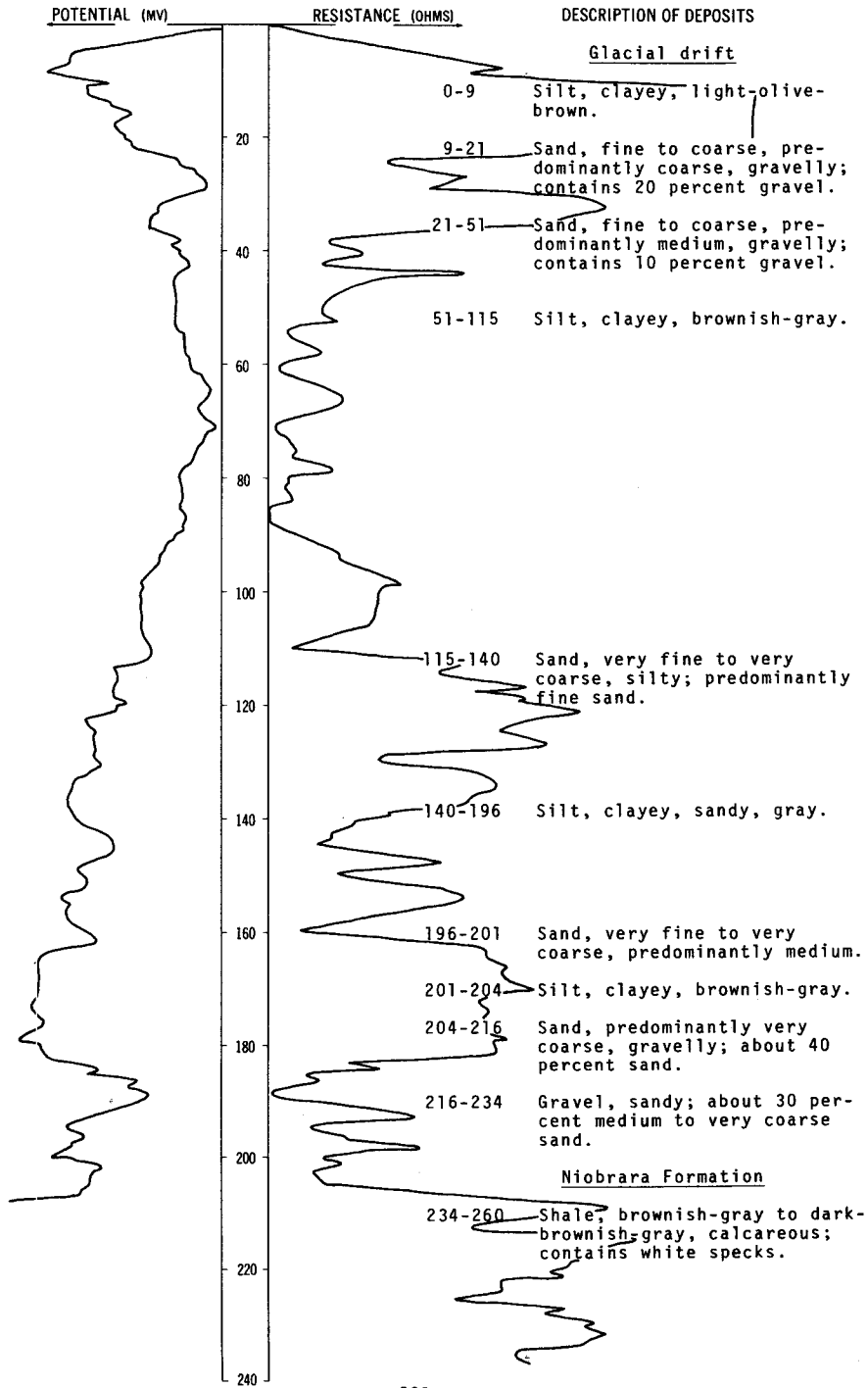


LOCATION: 131-059-22BDA1

DATE DRILLED: 9/14/76

ALTITUDE:
(FT, MSL)

DEPTH: 260
(FT)

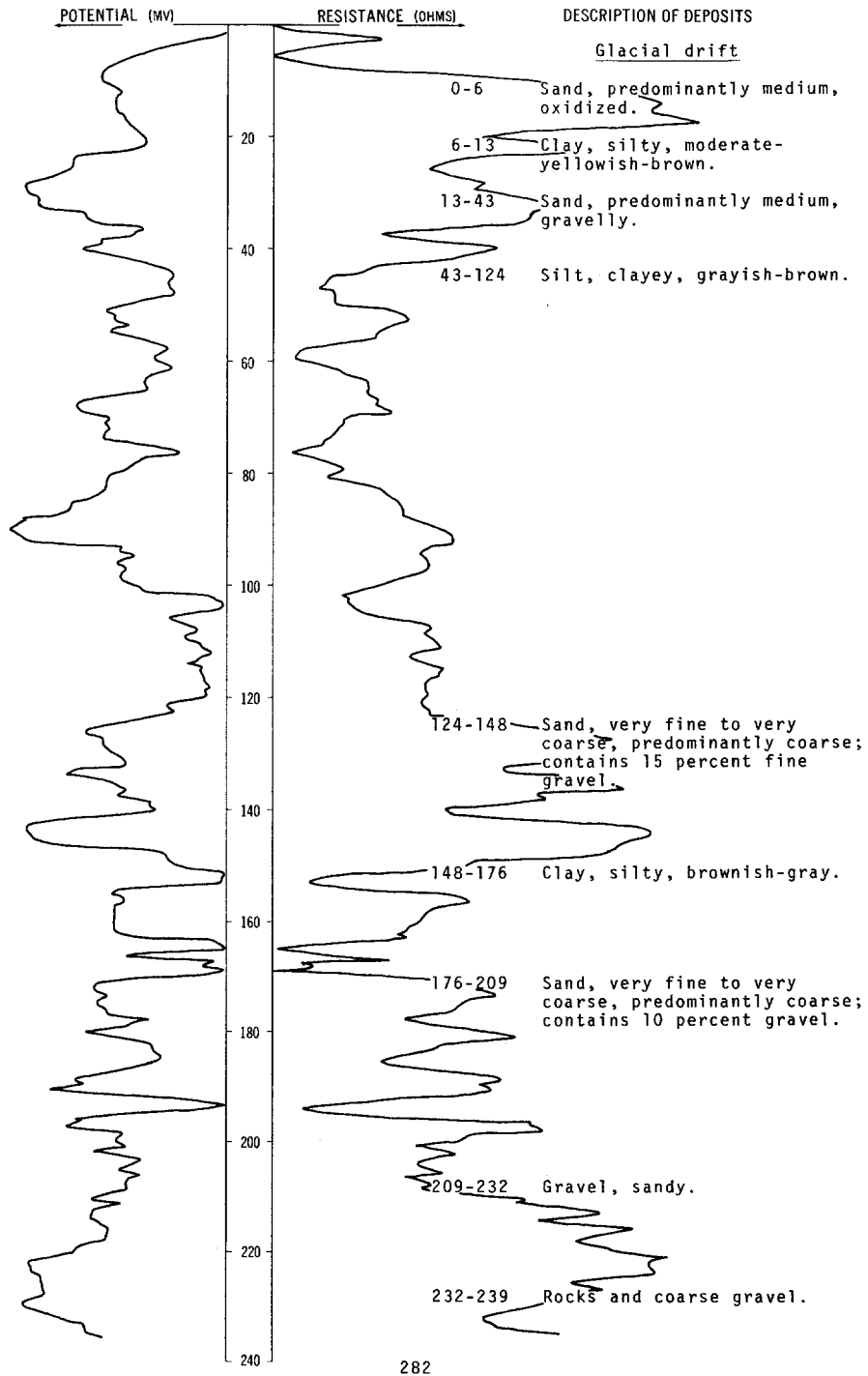


LOCATION: 131-059-22BDA2

DATE DRILLED: 9/13/76

ALTITUDE:
(FT, MSL)

DEPTH: 239
(FT)



131-059-22BDC
USBR Oakes-64

Altitude: 1325 feet

Date drilled: 12/31/52

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	1	1
	Sand and gravel, fine to medium-----	26	27
	Sand, fine to medium, gray, trace of silt, soft-----	65	92
	Sand, fine, silty, gray-----	9	101
	Sand, fine, silty, gray, compact-----	34	135
	Sand, medium, gray, clean-----	20	155
	Sand, fine, silty, gray, compact-----	26	181
	Till-----	2	183

131-059-22BDD
(Log from Farmer's Supply Co.)

Date drilled: 2/26/73

Glacial drift:			
	Topsoil-----	3	3
	Sand, coarse-----	22	25
	Sand, fine, silty, gray-----	101	126
	Sand, coarse-----	54	180
	Sand, fine-----	22	202
	Gravel, medium-----	30	232

131-059-22CDD
USBR Oakes-42

Altitude: 1324 feet

Date drilled: 5/02/51

Glacial drift:			
	Topsoil-----	2	2
	Sand, very fine, silty, buff, some clay-----	3	5
	Sand, fine, silty, clayey, brown-----	20	25
	Sand, fine, gray, some clay, gravelly and clayey from 33 to 35.5 feet-----	10	35
	Sand, fine, silty, gray, loose, clean-----	38	73
	Clay, silty, sandy, gravelly, gray (till)-----	1	74

131-059-22DBC
 USBR Oakes-6

Date drilled: 3/16/54

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil; silt, sandy, brown, organic-----	4	4
	Sand, fine, tan, poorly sorted, trace of silt-----	17	21
	Sand, fine to medium, buff, poorly sorted, trace of silt-----	10	31
	Sand, fine, gray, poorly sorted, trace of silt to silty-----	10	41
	Silt, sandy, gray, uniform-----	14	55
	Sand, fine, gray, poorly sorted, trace of silt to silty-----	45	100
	Sand and gravel, poorly sorted sand, fine to medium gravel, trace of clay to clayey-----	10	110
	Sand, fine, silty, gray, poorly sorted-----	11	121
	Clay, gravelly, gray, compact-----	4	125

131-059-22DBD
 (Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 9/19/74

Topsoil-----	2	2
Sand-----	18	20
Silt-----	35	55
Clay, rocky-----	1	56
Clay-----	9	65
Till, gray-----	45	110
Gravel-----	12	122
Till, gray-----	19	141
Sand and gravel-----	17	158
Chalk rock-----	2	160

131-059-22DDD2
 USBR Oakes-71

Altitude: 1341 feet

Date drilled: 3/30/54

Glacial drift:			
	Topsoil-----	1	1
	Sand, fine, few gravel pebbles, brown, uniform, pervious-----	39	40
	Clay, gravelly, gray, firm, impervious (till)-----	12	52
	Sand, fine, silty, gray, uniform, semipervious-----	43	95
	Sand and gravel, coarse, pervious-----	2	97
	Clay, gravelly and rocky, gray, firm, impervious (till)-----	8	105
	Clay, sandy, gray, impervious (till)-----	60	165

131-059-23AA
(Log from Falk Bros. Well Drilling)

Altitude: 1310 feet Date drilled: 11/16/74

Geologic source	Material	Thickness (feet)	Depth (feet)
	Clay, yellow-----	15	15
	Sand-----	17	32
	Shale-----	2	34

131-059-23AAA
USBR Oakes-69

Altitude: 1339 feet Date drilled: 3/08/54

Glacial drift:			
	Clay, silty, sandy, brown-----	2	2
	Clay, sandy, brown, badly weathered-----	22	24
	Sand, fine to medium, brown, loose, pervious, fairly clean-----	11	35
	Sand, medium to coarse, 5 percent gravel, brown to gray, loose-----	7	42
	Sand, very fine to fine, silty, clayey, gray, well-compacted, low permeability-----	13	55
	Silt, fine, sandy, clayey, gray, well-compacted, semipervious to very low permeability-----	59	114
	Sand, fine to medium, clayey, gray-----	1	115
	Silt, fine, sandy, clayey, gray, compacted-----	80	195
	Sand and gravel, coarse sand; fine gravel, gray, boulder at 198 feet-----	3	198

131-059-24CDC
(Log from Falk Bros. Well Drilling)

Date drilled: 11/ /72

Glacial drift:			
	Clay, yellow-----	25	25
	Sand and gravel-----	25	50

131-059-26AAA
USBR Oakes-70

Altitude: 1326 feet Date drilled: 3/29/54

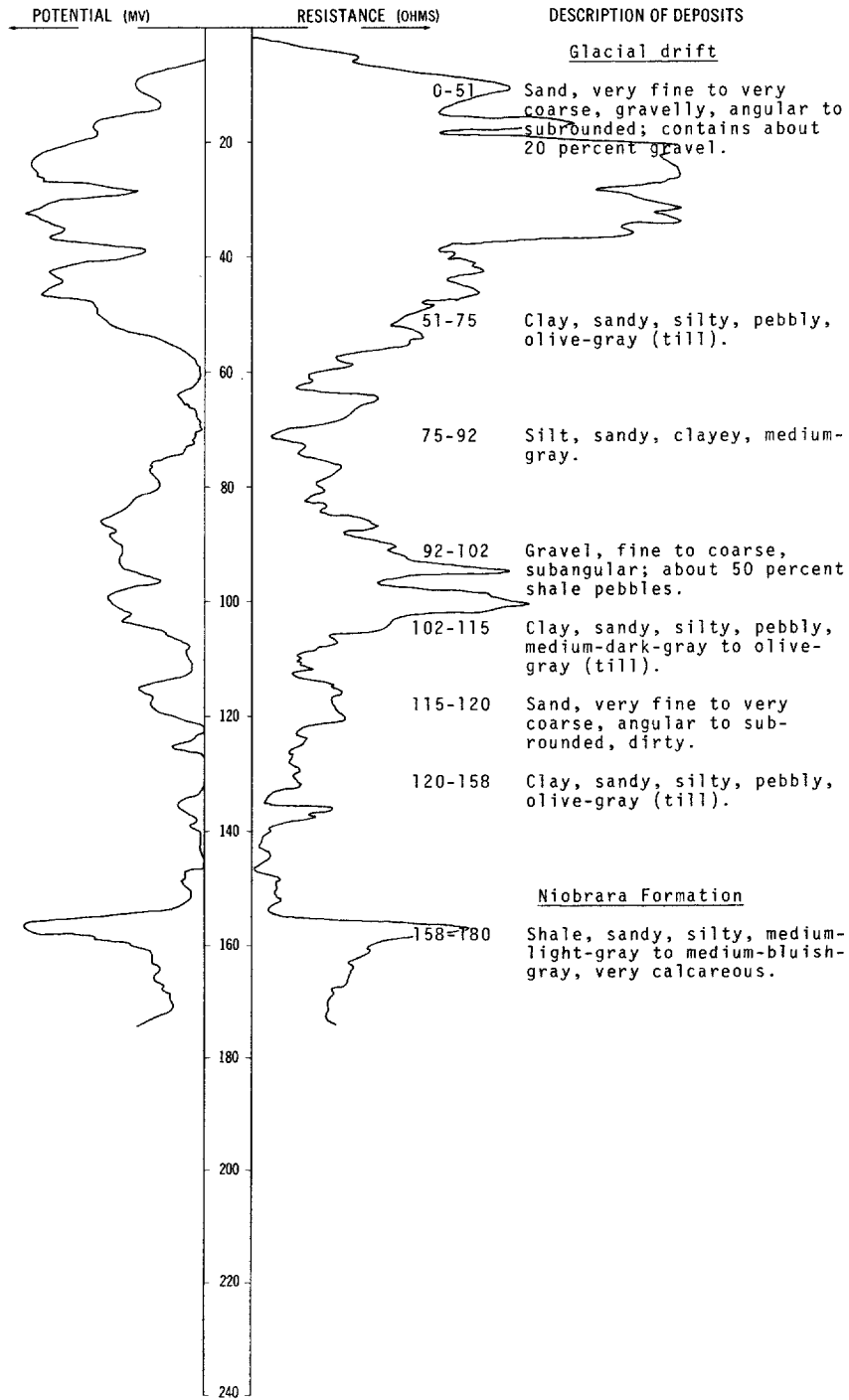
Glacial drift:			
	Topsoil-----	1	1
	Clay, gravelly, brown, hard, impervious (till)-----	11	12
	Sand, medium to coarse, brown, pervious-----	15	27
	Sand, fine, silty, gray, semipervious-----	14	41
	Clay, gravelly, gray, impervious (till)-----	35	76
	Sand and gravel, gray sand, coarse gravel, pervious-----	6	82
	Clay, fine to coarse, sandy, gray, impervious (till)-----	10	92
	Sand and gravel, fine to coarse, gray sand, pervious-----	8	100
	Sand, silty, gray-----	9	109
	Gravel, fine to coarse, with cobbles-----	3	112

LOCATION: 131-059-26BCB1

DATE DRILLED: 8/26/75

ALTITUDE: 1340
(FT, MSL)

DEPTH: 180
(FT)



131-059-27ACA1
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 4/09/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil-----	2	2
	Sand, fine-----	28	30
	Clay-----	5	35
	Sand, medium-----	5	40
	Clay-----	90	130
	Gravel-----	10	140
	Clay (chalk rock)-----	10	150

131-059-27ACA2
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 6/12/75

	Soil-----	2	2
	Clay, sandy-----	8	10
	Sand, fine-----	48	58
	Clay-----	17	75
	Sand and gravel-----	20	95
	Till, gray-----	40	135
	Sand and gravel-----	17	152

131-059-27ADD
USBR Oakes-57

Altitude: 1327 feet

Date drilled: 12/22/52

Glacial drift:			
	Topsoil-----	1	1
	Sand, fine, silty, buff-----	17	18
	Sand, fine to medium, gravelly, gray-----	14	32
	Sand, fine, gray, uniform, trace of silt-----	47	79
	Till-----	3	82

131-059-27BBB1
USBR W-2

Altitude: 1315 feet

Date drilled: 7/14/66

	Loam-----	3	3
	Clay, sandy-----	2	5
	Sand, fine, loamy-----	4	9
	Sand-----	11	20

131-059-27BCB
USBR W-4

Altitude: 1313 feet

Date drilled: 6/15/66

	Loam, silty-----	4	4
	Sand, fine, loamy-----	2	6
	Sand, fine-----	6	12
	Sand-----	8	20

131-059-27DAD
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 9/14/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil-----	2	2
	Sand and gravel-----	13	15
	Till, gray-----	25	40
	Sand-----	5	45
	Till, gray-----	15	60

131-059-27DBB
USBR Oakes-54

Altitude: 1314 feet

Date drilled: 6/17/52

Glacial drift:

Clay, silty, sandy, gray to tan, slightly plastic-----	5	5
Sand, fine, silty, buff, trace of clay, poorly sorted-----	13	18
Sand, fine to medium, silty, gray, poorly sorted, good porosity-----	20	38
Sand, fine, silty, gray, poorly sorted, loose-----	12	50
Sand, fine to medium, brown, poorly sorted, loose, good porosity-----	2	52
Sand, fine, silty, gray, poorly sorted-----	4	56
Gravel, fine to medium, silty, gray, poorly sorted, cemented-----	17	73
Silt, sandy, clayey, gray, well-compacted, impervious-----	27	100

131-059-27DCC1
USBR W-15

Altitude: 1310 feet

Date drilled: 7/19/66

Loam, silty-----	4	4
Loam, coarse, sandy-----	5	9
Sand-----	11	20

131-059-27DDD1
USBR Oakes-28

Altitude: 1310 feet

Date drilled: 3/15/51

Glacial drift:

Topsoil-----	2	2
Silt and sand, fine, clayey, buff, iron staining-----	6	8
Sand, medium, some clay and gravel, gray, loose-----	22	30
Sand, medium, gray, poorly sorted, some gravel, loose, clean-----	10	40
Silt, clayey, gray, varved, some medium, gravel from 40 to 43 feet-----	15	55
Silt, clayey, sandy, gray, compact-----	10	65
Silt, very sandy, gray, some clay, gravelly from 75 to 78 feet-----	13	78
Clay, silty, sandy, gravelly, gray, slightly plastic (till)-----	2	80

131-059-28ABC
 USBR Oakes-61

Altitude:	1307 feet	Date drilled:	1/09/53
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	1	1
	Sand, medium, buff, trace of silt, uniform-----	9	10
	Sand, medium to coarse, gravelly, gray-----	15	25
	Sand, fine, gray, uniform, some lignite slack-----	27	52
	Sand, fine, gray, trace of silt, uniform-----	3	55
	Till-----	8	63

131-059-28ACC
 USBR W-5

Altitude:	1308 feet	Date drilled:	6/ /66
	Loam-----	1	1
	Loam, silty-----	3	4
	Sand, fine, loamy-----	3	7
	Sand-----	13	20

131-059-28ACD
 (Log from Empire Irrigation & Drilling Co., Inc.)

Altitude:	1305 feet	Date drilled:	9/20/74
	Topsoil-----	2	2
	Clay, sandy-----	8	10
	Sand, medium to coarse-----	32	42
	Till, gray-----	73	115
	Sand, fine to medium-----	83	198

131-059-28ADC
 USBR W-6

Altitude:	1310 feet	Date drilled:	6/25/66
	Loam-----	1	1
	Loam, silty-----	1	2
	Sand, fine-----	18	20

131-059-28CAD
 (Log from Empire Irrigation & Drilling Co., Inc.)

		Date drilled:	6/13/75
	Soil-----	2	2
	Clay, sandy-----	8	10
	Sand, medium to coarse-----	32	42
	Till, gray-----	--	42

131-059-28CCB
(Log from Wieber Well Drilling)

Altitude: 1315 feet Date drilled: 6/23/74

Geologic source	Material	Thickness (feet)	Depth (feet)
	Topsoil, black-----	1	1
	Sand, fine, silty-----	19	20
	Sand, coarse, reddish-----	10	30
	Sand, fine-----	10	40
	Sand, fine, hard-----	5	45
	Sand, medium to coarse-----	5	50
	Sand, coarse-----	13	63

131-059-28DBD
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 6/16/75

Soil-----	2	2
Clay, sandy-----	8	10
Sand, medium to coarse-----	31	41
Till, gray-----	--	41

131-059-28DDD1
USBR Oakes-41

Altitude: 1310 feet Date drilled: 4/10/51

Glacial drift:			
	Topsoil-----	2	2
	Sand, fine, silty, buff, loose-----	5	7
	Clay, silty, gray, moderately compact, plastic-----	1	8
	Sand, medium, gray, some fine gravel, poorly sorted, loose-----	22	30
	Sand, fine, silty, gray, lignitic, poorly graded-----	5	35
	Sand, medium, gray, loose, clean-----	19	54
	Clay, silty, sandy, fine gravel throughout, gray, slightly plastic (till)-----	22	76

131-059-28DDD2
USBR W-12

Altitude: 1314 feet Date drilled: 6/22/66

Loam, sandy-----	4	4
Loam, silty-----	2	6
Clay, silty-----	2	8
Sand, fine-----	2	10
Sand, coarse-----	10	20

131-059-29DDD
USBR W-8

Altitude: 1312 feet Date drilled: 6/22/66

Loam, sandy-----	2	2
Sand, fine, loamy-----	2	4
Sand, coarse-----	9	13
Sand, loamy-----	7	20

131-059-32AAA
USBR Oakes-37

Altitude: 1309 feet		Date drilled: 4/04/51	
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	1	1
	Sand, medium, some silt, brown, poorly sorted, loose-----	10	11
	Sand, medium, brown, some fine gravel, loose, clean-----	9	20
	Sand, medium, brown, poorly sorted, loose, fairly clean-----	8	28
	Sand, fine, gray, poorly sorted, loose, fairly clean-----	22	50
	Sand, gray, medium; and gravel, fine to medium, loose, fairly clean-----	10	60
	Clay, silty, sandy, some gravel, gray (till)-----	8	68

131-059-32ADD
USBR Oakes-27

Altitude: 1311 feet		Date drilled: 3/14/51	
Glacial drift:			
	Topsoil-----	1	1
	Sand, fine to medium, some fine gravel, brown, shale and lignite particles, thin silt lenses-----	15	16
	Sand, medium, some fine gravel, brown, poorly sorted, loose, clean-----	13	29
	Sand, fine to medium, gray, poorly sorted, shale grains, loose, fairly clean-----	11	40
	Sand, medium, some gravel, gray, shale and lignite particles, loose, fairly clean-----	15	55
	Clay, silty, sandy, gravelly, gray (till)-----	15	70

131-059-33AAA
USBR Oakes-1

Altitude: 1310 feet		Date drilled: 6/18/52	
Glacial drift:			
	Clay, silty, sandy, grayish-brown, slightly plastic when wet-----	3	3
	Sand, fine to medium, grayish-brown, poorly sorted, loose, trace of clay, oxidized in upper portion-----	15	18
	Sand, fine, silty, gray, poorly sorted, loose-----	17	35
	Sand, fine, some clay, gray, poorly sorted, some lignite particles-----	5	40
	Sand, fine to medium, brown, poorly sorted, good porosity, clean-----	3	43
	Silt, some clay, gray, well-compacted, dries hard, impervious-----	2	45

131-059-33ABB
 USBR Oakes-55

Altitude: 1310 feet

Date drilled: 12/22/52

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, buff, lean-----	5	5
	Sand, fine to medium, few gravel pebbles, buff-----	12	17
	Sand, fine, few fine gravel pebbles, gray, uniform-----	35	52
	Till-----	3	55

131-059-33ABC2
 (Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 9/19/74

	Topsoil-----	2	2
	Sand, fine to medium-----	38	40
	Sand, medium to coarse-----	12	52
	Clay-----	3	55

131-059-33ADD1
 USBR W-18

Altitude: 1311 feet

Date drilled: 7/09/66

	Loam, fine, sandy-----	3	3
	Sand, very fine, loamy-----	3	6
	Sand, fine-----	1	7
	Sand, coarse, loamy-----	3	10
	Sand, fine-----	10	20

131-059-33CCC2
 USBR W-21

Altitude: 1307 feet

Date drilled: 6/15/66

	Loam, silty-----	1	1
	Loam, sandy-----	3	4
	Sand, very fine, loamy-----	3	7
	Clay, sandy-----	5	12
	Loam, sandy-----	8	20

131-059-33DAC
(Log from Schnell, Inc.)

Date drilled: 10/03/63

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	2	2
	Sand, medium-----	43	45
	Gravel, lignite chips-----	7	52
	Till, gray-----	39	91
	Sand-----	2	93
	Till, gray, sand layers-----	23	116
	Gravel-----	22	138
	Clay-----	12	150

131-059-33DAD
(Log from Schnell, Inc.)

Date drilled: 10/04/64

Glacial drift:			
	Topsoil-----	2	2
	Sand, medium-----	42	44
	Gravel, lignite chips-----	8	52
	Till, gray-----	46	98
	Gravel-----	3	101
	Till, gray-----	34	135
Niobrara Formation:			
	Shale-----	25	160

131-059-33DDD1
USBR Oakes-56

Altitude: 1308 feet

Date drilled: 12/18/52

Glacial drift:			
	Clay, buff, lean-----	4	4
	Sand, fine, brown-----	2	6
	Clay, buff, lean-----	6	12
	Clay, gray, lean-----	4	16
	Sand, medium, gravelly-----	26	42
	Till-----	4	46

131-059-33DDD2
USBR W-22

Altitude: 1307 feet

Date drilled: 6/18/66

	Loam, fine, sandy-----	1	1
	Sand, fine-----	3	4
	Loam, very fine, sandy-----	4	8
	Loam, silty-----	11	19
	Silt-----	1	20

131-059-34ACA
(Log from Empire Irrigation & Drilling Co., Inc.)

Altitude: 1310 feet	Date drilled: 9/23/74		
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil-----	2	2
	Clay, sandy-----	5	7
	Sand, medium-----	63	70
	Clay-----	5	75

131-059-34CAC
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 9/19/74		
Topsoil-----	2	2
Clay-----	16	18
Sand, fine to medium-----	12	30
Till, gray-----	100	130
Chalk rock-----	10	140

131-059-34BBD1
(Log from Empire Irrigation & Drilling Co., Inc.)

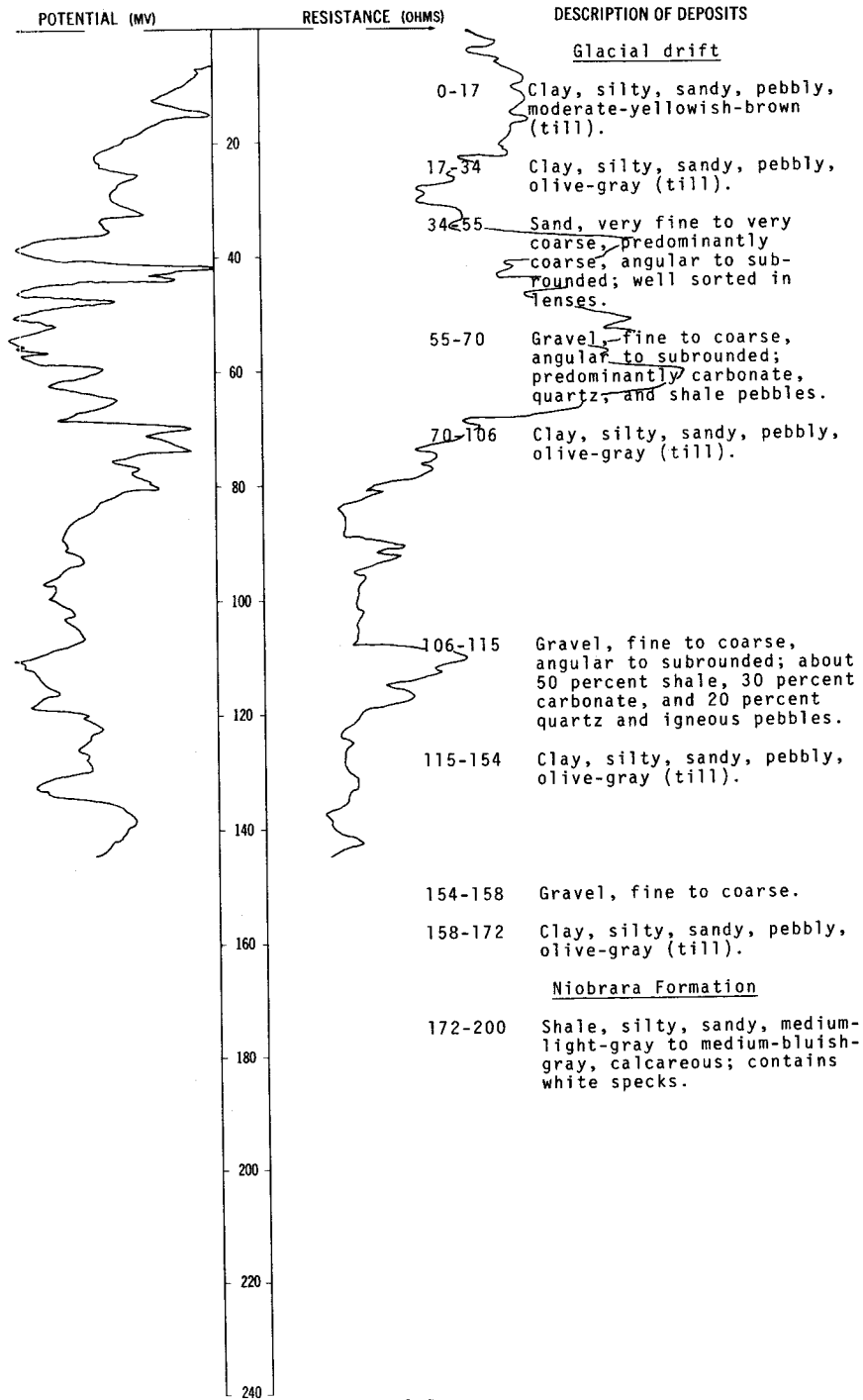
Altitude: 1310 feet	Date drilled: 9/23/74	
Topsoil-----	2	2
Clay, yellow-----	13	15
Sand, medium-----	51	66
Clay-----	4	70

131-059-35BCC
USBR W-19

Altitude: 1317 feet	Date drilled: 6/20/66	
Loam, very fine, sandy-----	6	6
Loam, sandy-----	2	8
Loam, silty-----	2	10
Clay-----	1	11
Sand-----	9	20

LOCATION: 131-059-36BBB
 ALTITUDE: 1338
 (FT, MSL)

DATE DRILLED: 8/26/75
 DEPTH: 200
 (FT)



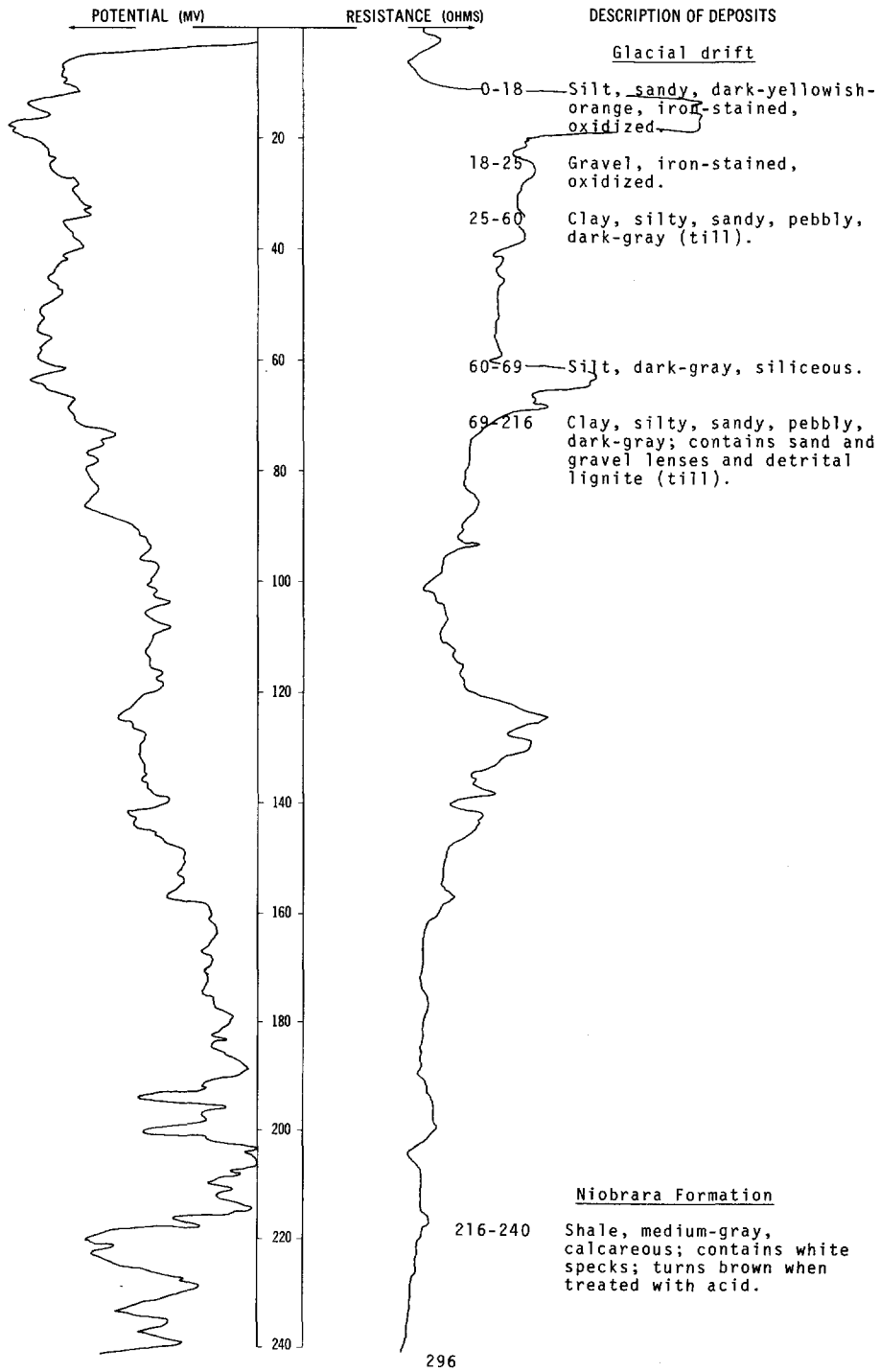
NDSWC 9133

LOCATION: 131-060-02BBB

DATE DRILLED: 9/27/74

ALTITUDE: 1369
(FT, MSL)

DEPTH: 240
(FT)



131-060-03ADD
(Log from Falk Bros. Well Drilling)

Date drilled: 11/ /72

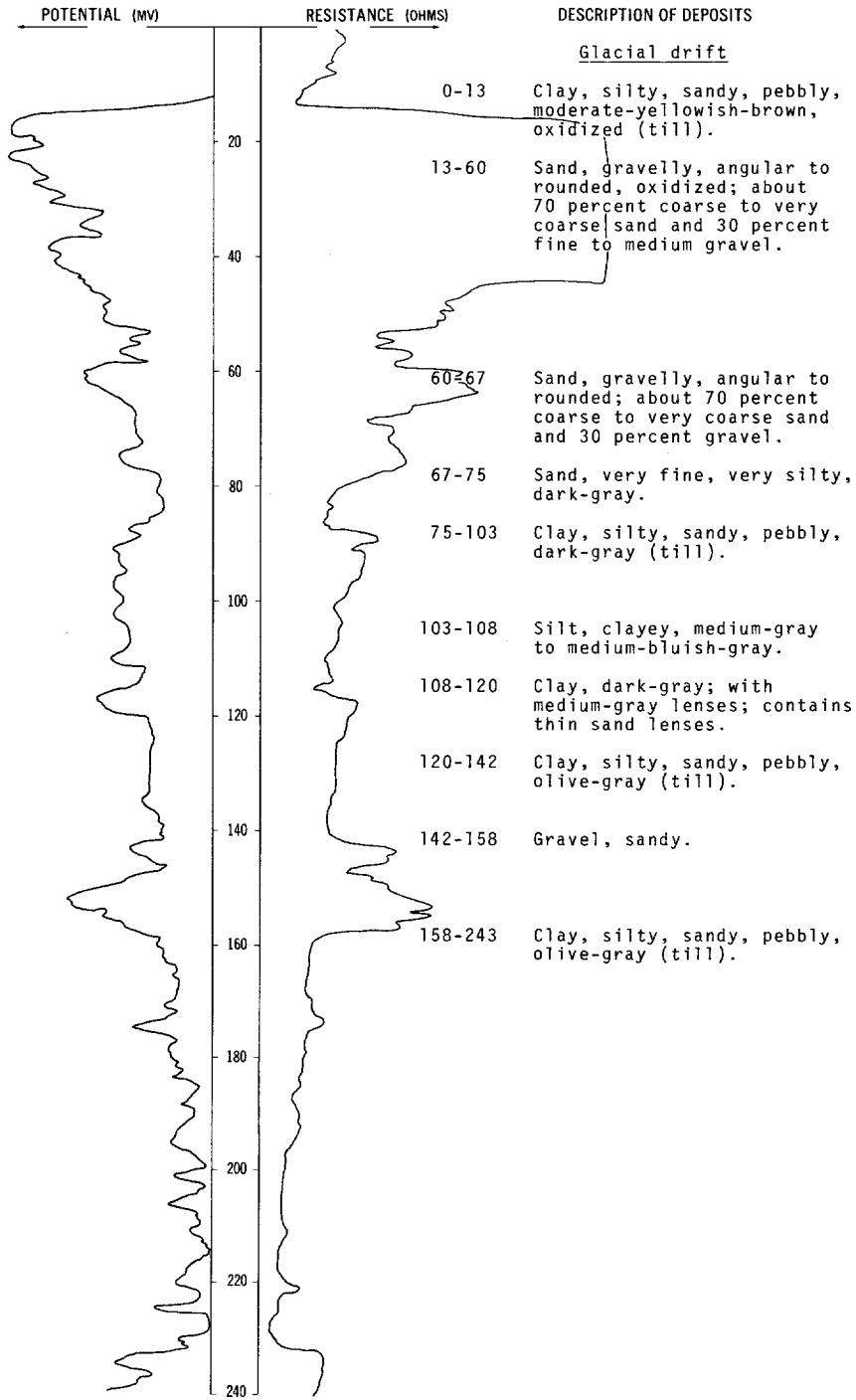
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, yellow-----	12	12
	Shale-----	93	105
	Sand, pebbly-----	8	113
	Shale-----	22	135
	Sand-----	15	150

LOCATION: 131-060-04888

DATE DRILLED: 9/27/74

ALTITUDE: 1390
(FT. MSL)

DEPTH: 260
(FT)



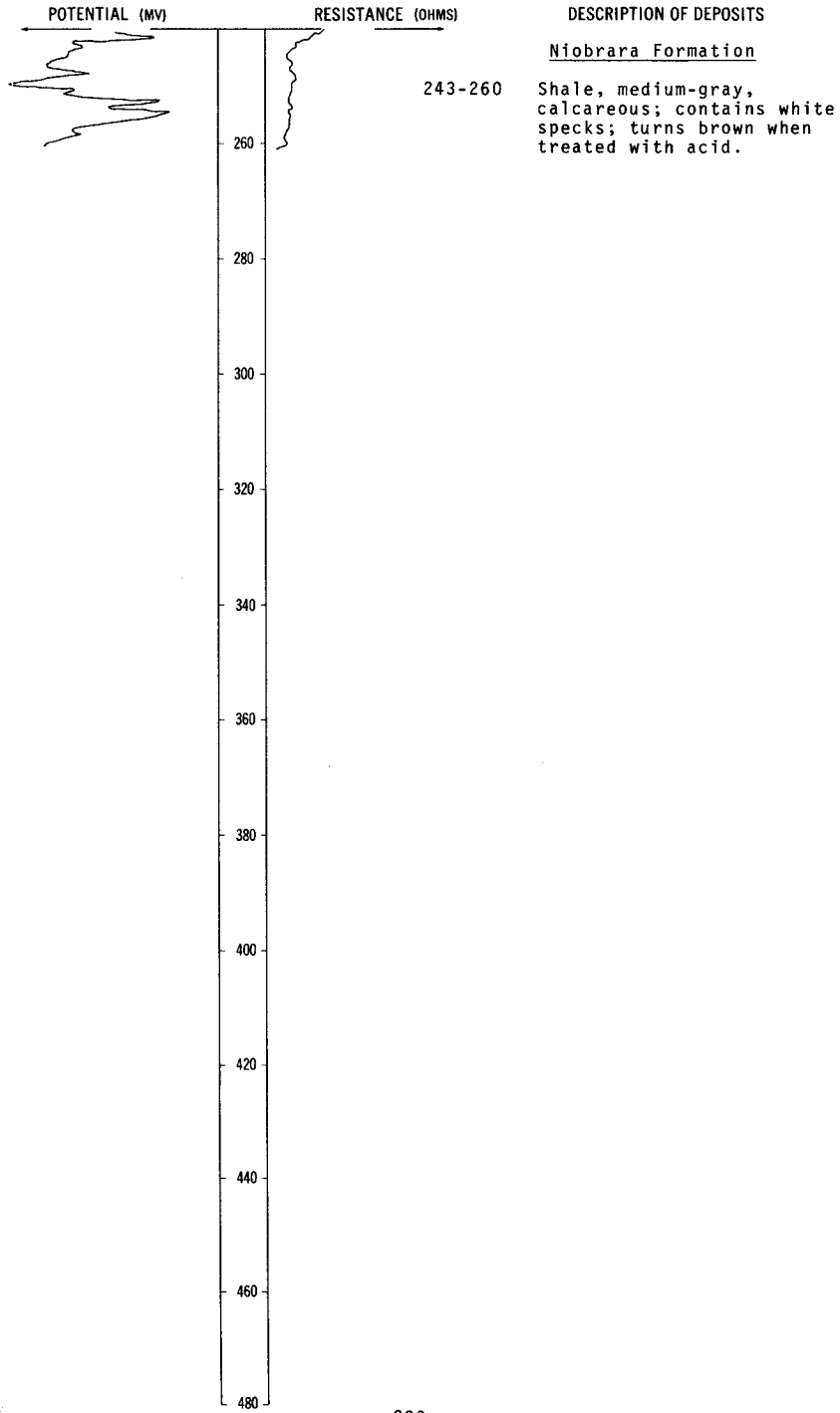
NDSWC 9134, Continued

LOCATION: 131-060-04BBB

DATE DRILLED: 9/27/74

ALTITUDE: 1390
(FT, MSL)

DEPTH: 260
(FT)

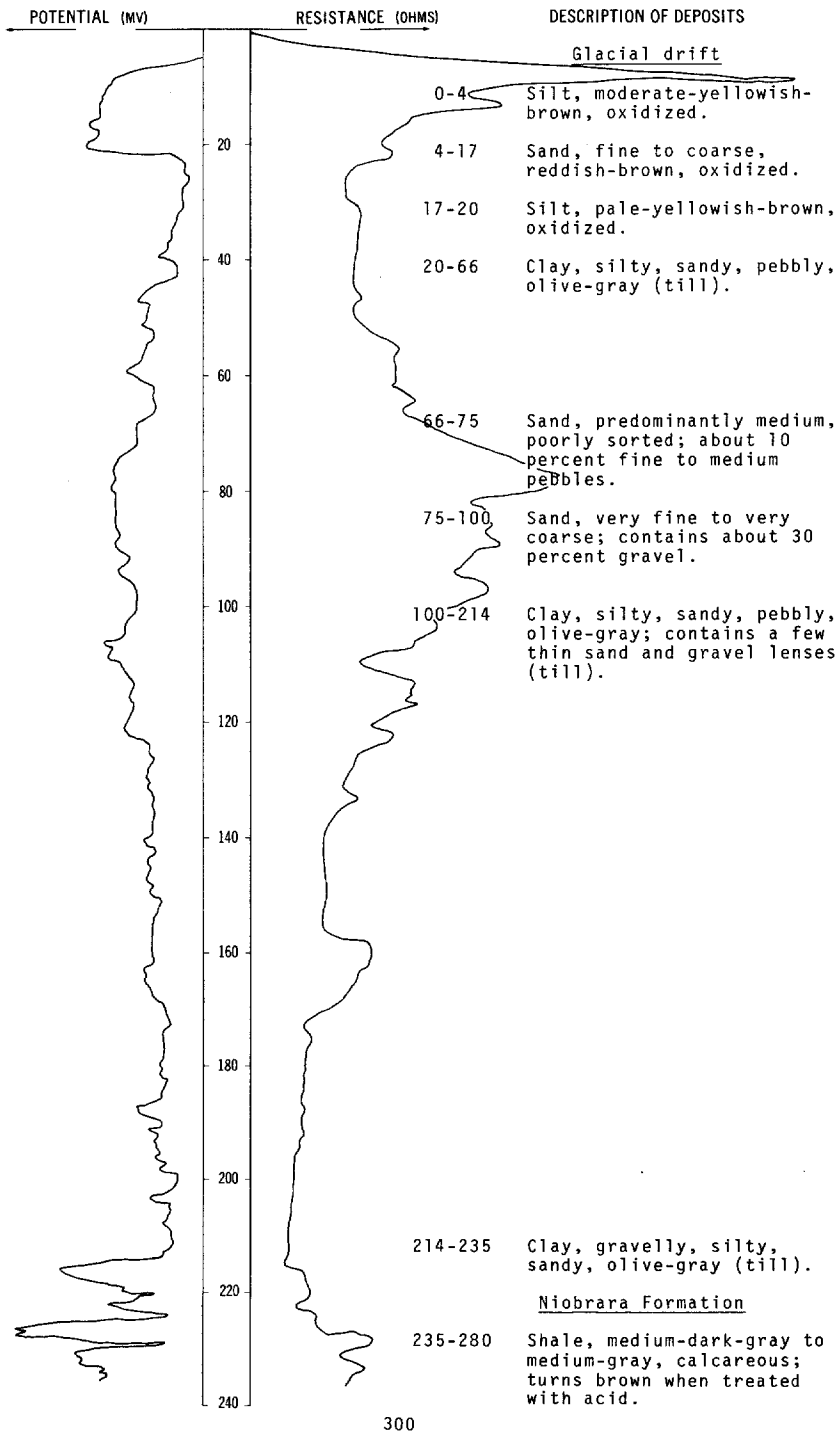


LOCATION: 131-060-06BBB

DATE DRILLED: 9/30/74

ALTITUDE: 1377
(FT, MSL)

DEPTH: 280
(FT)

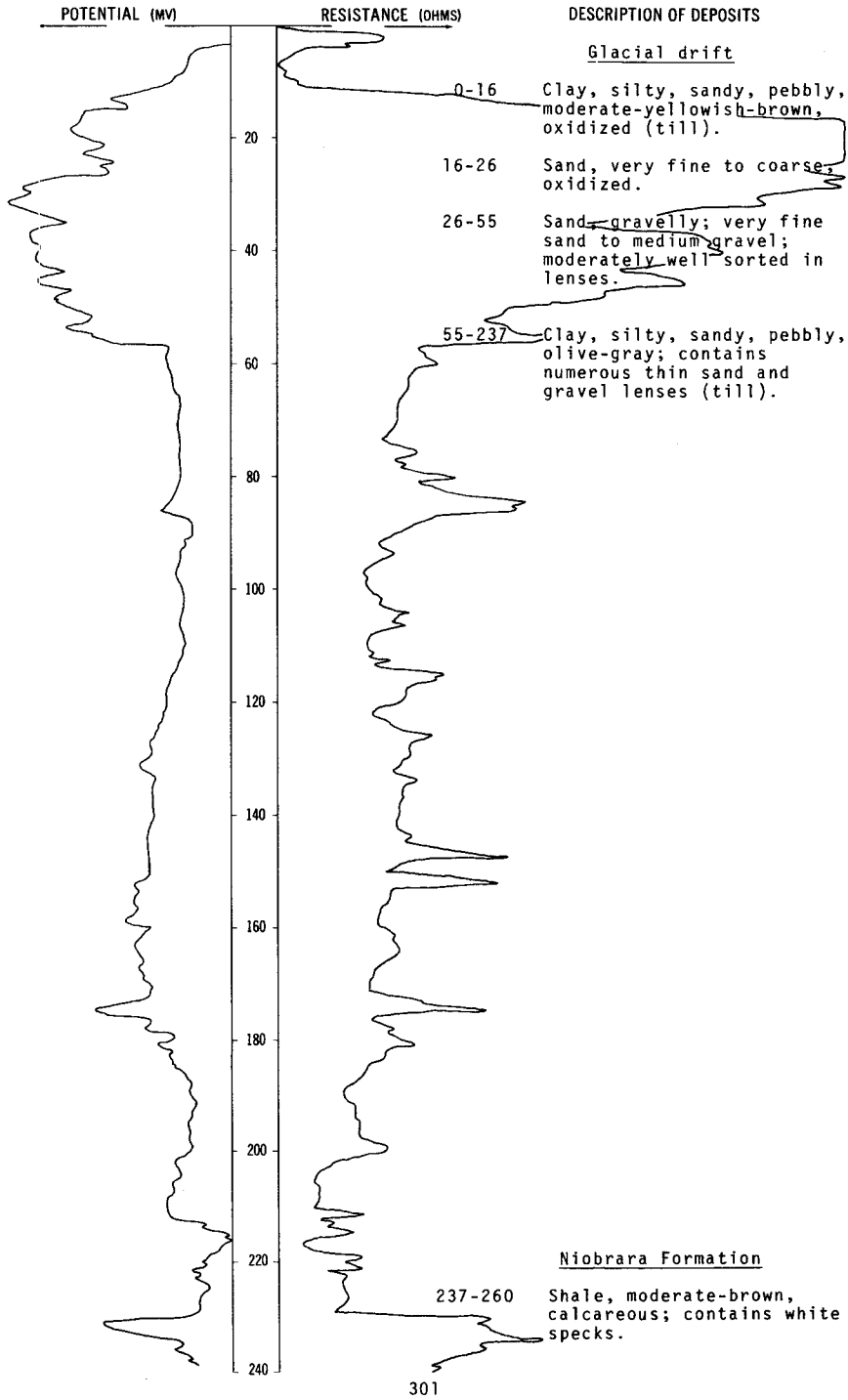


LOCATION: 131-060-08DDD1

DATE DRILLED: 11/03/76

ALTITUDE: 1392
(FT, MSL)

DEPTH: 260
(FT)



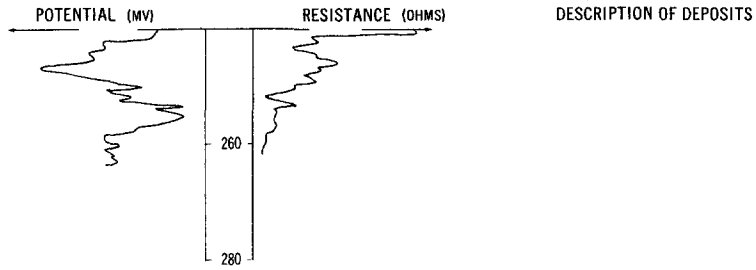
NDSWC 9829, Continued

LOCATION: 131-060-08DDD1

DATE DRILLED: 11/03/76

ALTITUDE: 1392
(FT, MSL)

DEPTH: 260
(FT)



131-060-10ADD
(Log from Falk Bros. Well Drilling)

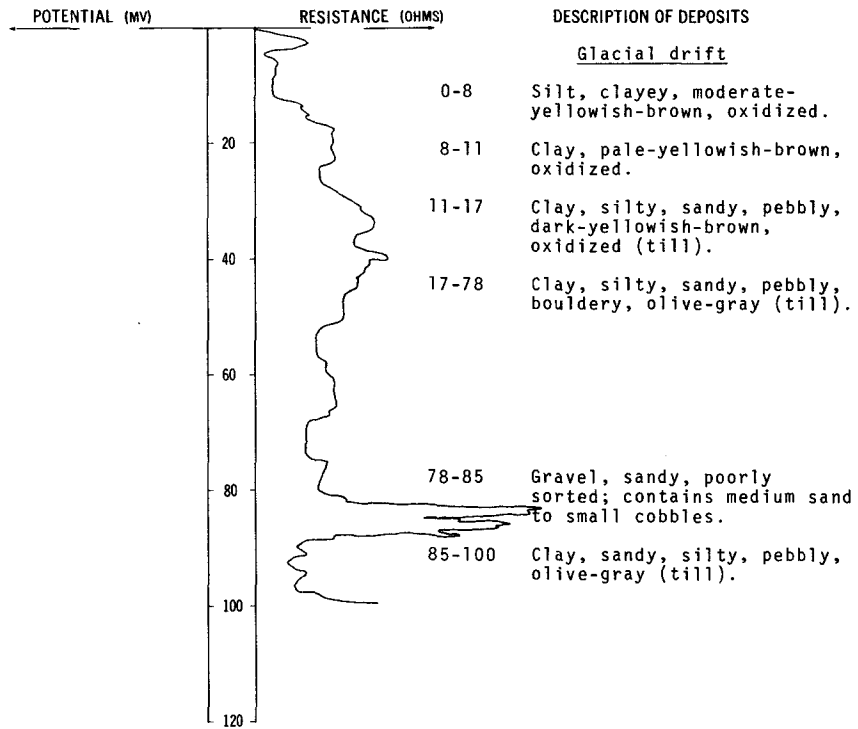
Altitude: 1375 feet

Date drilled: 9/13/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Clay, yellow-----	14	14
	Shale-----	31	45
	Sand lens-----	15	60
	Shale-----	5	65

LOCATION: 131-060-11BBB
 ALTITUDE: 1371
 (FT, MSL)

DATE DRILLED: 11/01/76
 DEPTH: 100
 (FT)



131-060-15ADB
 (Log from Falk Bros. Well Drilling)

Altitude: 1375 feet

Date drilled: 9/15/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Clay, yellow-----	16	16
	Shale-----	30	46
	Sand lens-----	24	70
	Shale-----	5	75

131-060-15CCB
(Log from Falk Bros. Well Drilling)

Date drilled: 11/03/72

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, yellow-----	12	12
	Shale-----	33	45
	Sand-----	13	58
	Shale-----	25	83
	Sand-----	5	88

131-060-17CAD
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 9/16/74

	Topsoil-----	2	2
	Till, yellow-----	18	20
	Till, gray-----	2	22
	Sand and gravel-----	32	54
	Till, gray-----	6	60

131-060-17DBC2
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 5/16/75

	Soil-----	2	2
	Till, yellow-----	18	20
	Till, gray-----	2	22
	Sand and gravel-----	32	54
	Till, gray-----	6	60

131-060-17DBD
(Log from Empire Irrigation & Drilling Co., Inc.)

Date drilled: 9/16/74

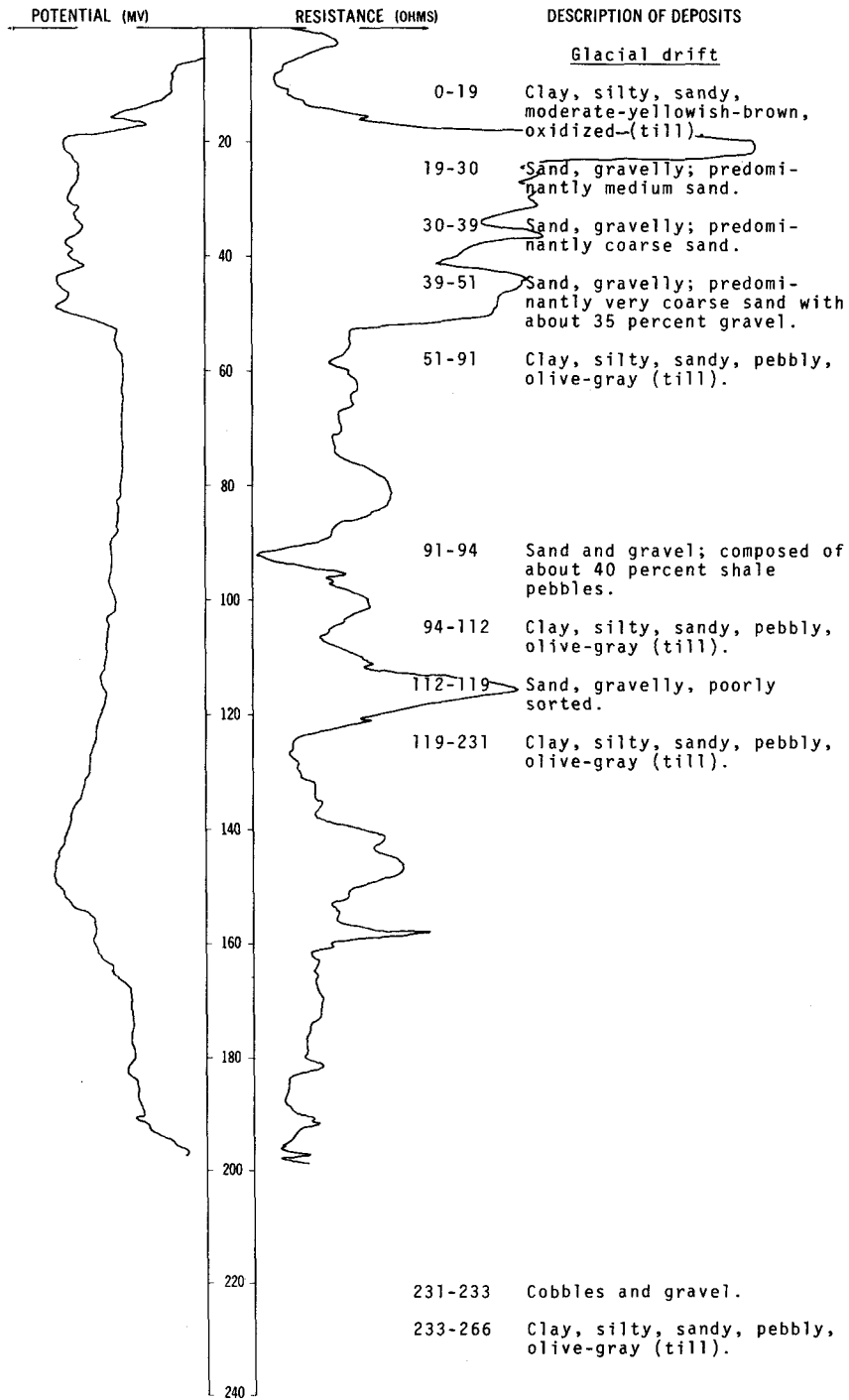
	Topsoil-----	2	2
	Till, yellow-----	18	20
	Till, gray-----	40	60

LOCATION: 131-060-18DDD1

DATE DRILLED: 11/02/76

ALTITUDE: 1392
(FT, MSL)

DEPTH: 280
(FT)



NDSWC 9828, Continued

LOCATION: 131-060-18DDD1

DATE DRILLED: 11/02/76

ALTITUDE: 1392
(FT, MSL)

DEPTH: 280
(FT)

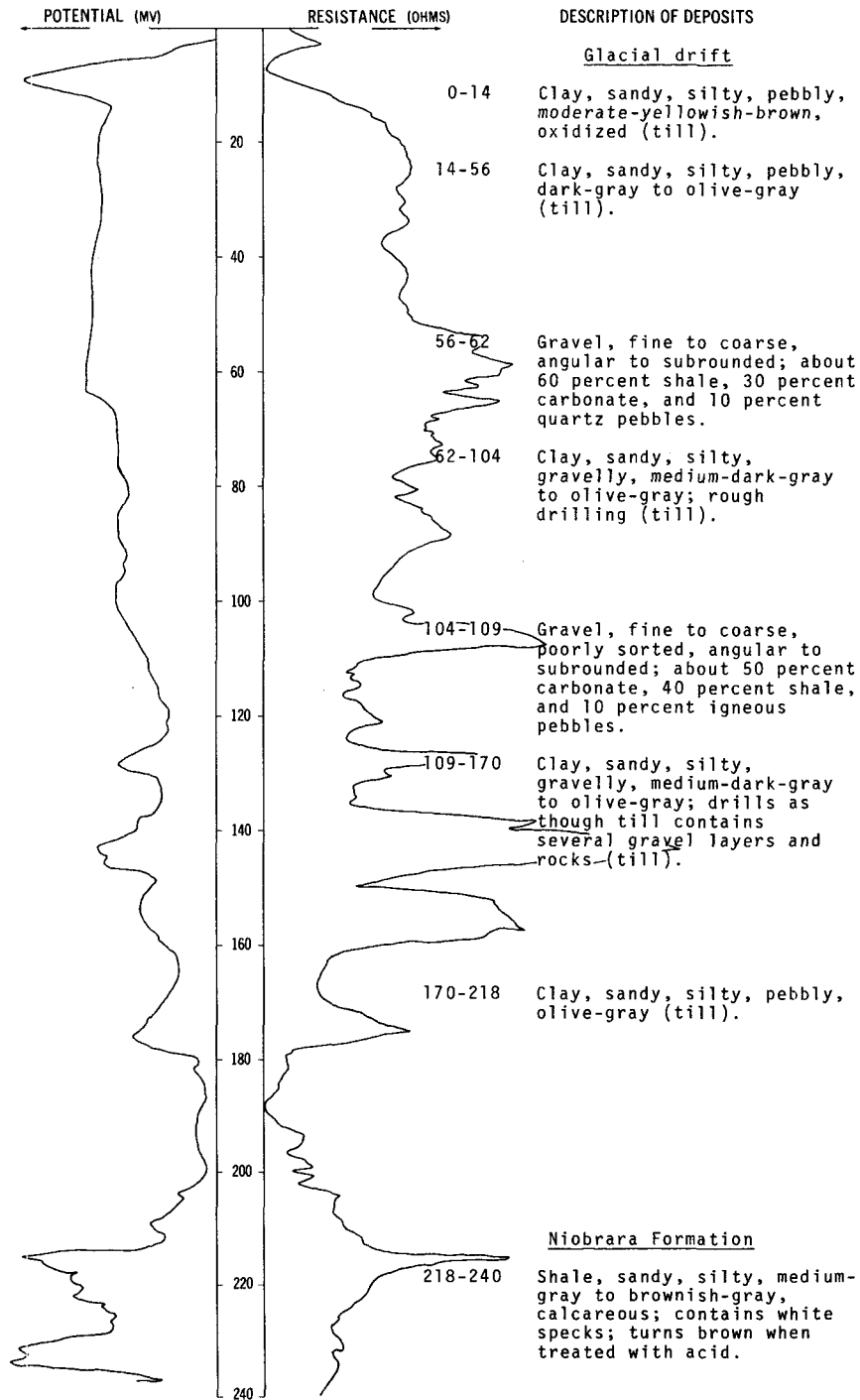
POTENTIAL (MV)	RESISTANCE (OHMS)	DESCRIPTION OF DEPOSITS
260		<u>Niobrara Formation</u>
266-280		Shale, moderate-brown, calcareous; contains white specks.
280		
300		
320		
340		
360		
380		
400		
420		
440		
460		
480		

LOCATION: 131-060-22BBB

DATE DRILLED: 10/02/75

ALTITUDE: 1386
(FT, MSL)

DEPTH: 240
(FT)

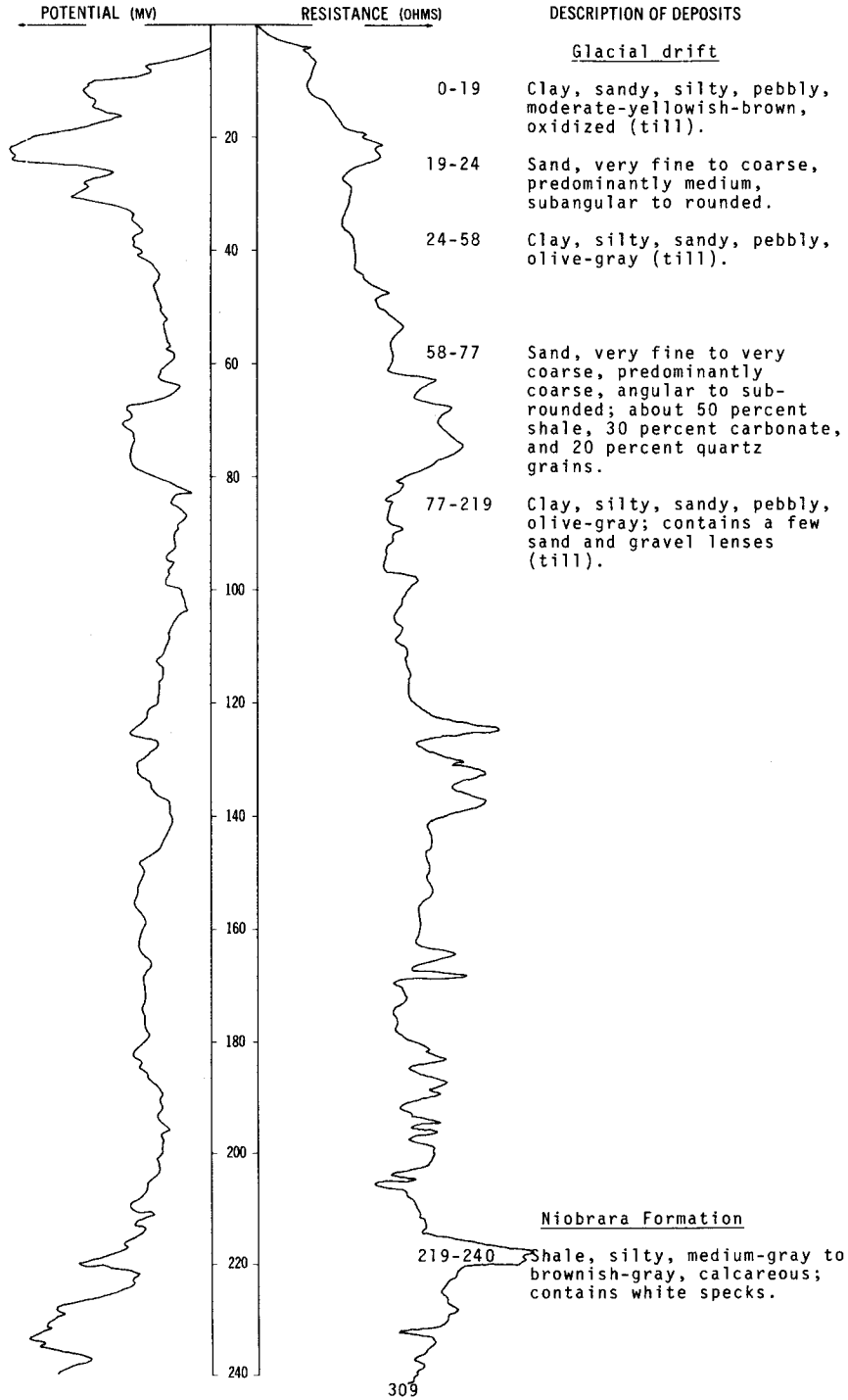


131-060-24CDC
(Log from Falk Bros. Well Drilling)

Altitude:	1345 feet	Date drilled:	9/17/74
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Clay, yellow-----	12	12
	Shale-----	24	36
	Sand lens-----	6	42
	Shale-----	18	60

LOCATION: 131-060-31DDD
 ALTITUDE: 1375
 (FT, MSL)

DATE DRILLED: 10/02/75
 DEPTH: 240
 (FT)

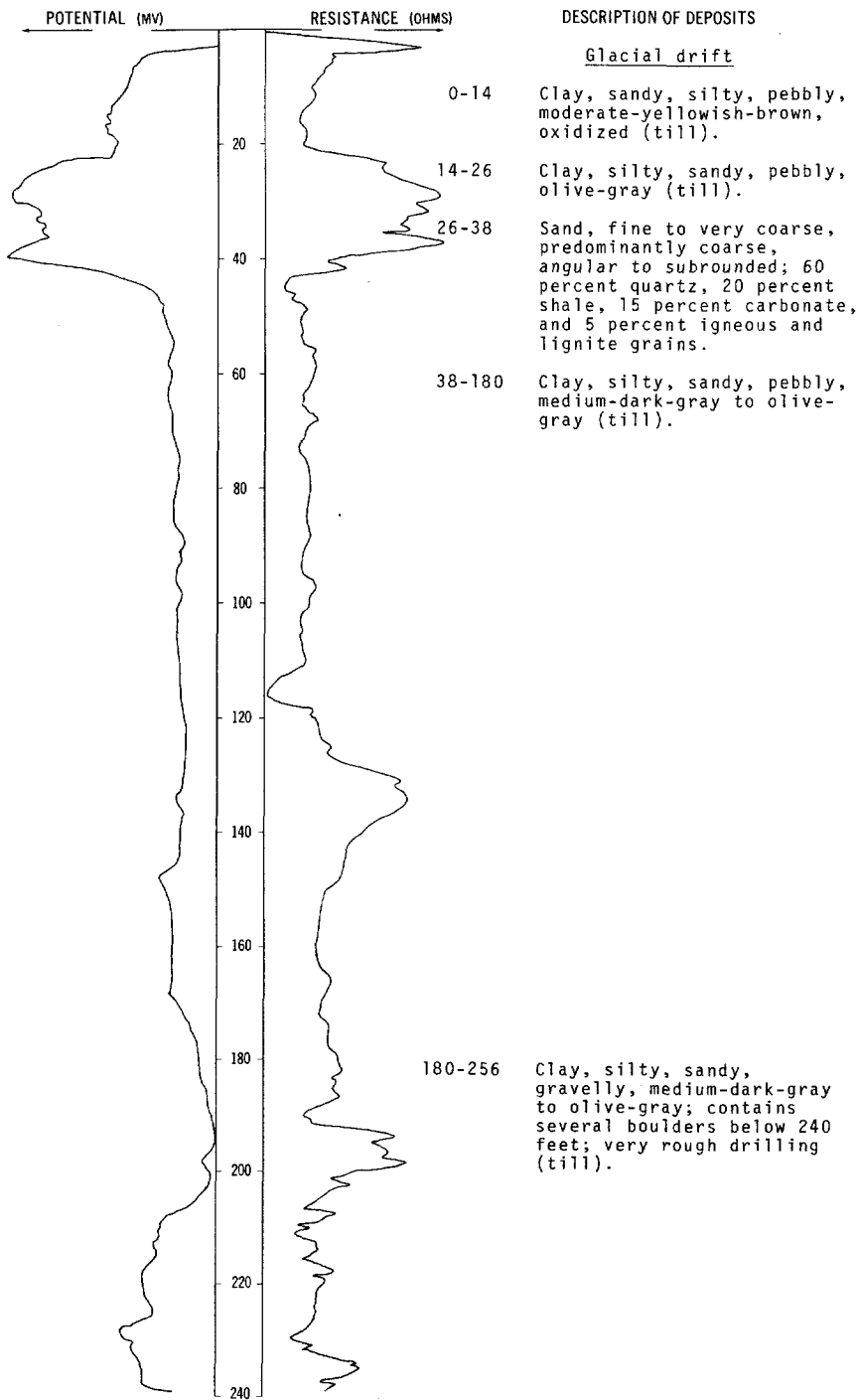


LOCATION: 131-061-21CCC

DATE DRILLED: 10/01/75

ALTITUDE: 1416
(FT, MSL)

DEPTH: 256
(FT)



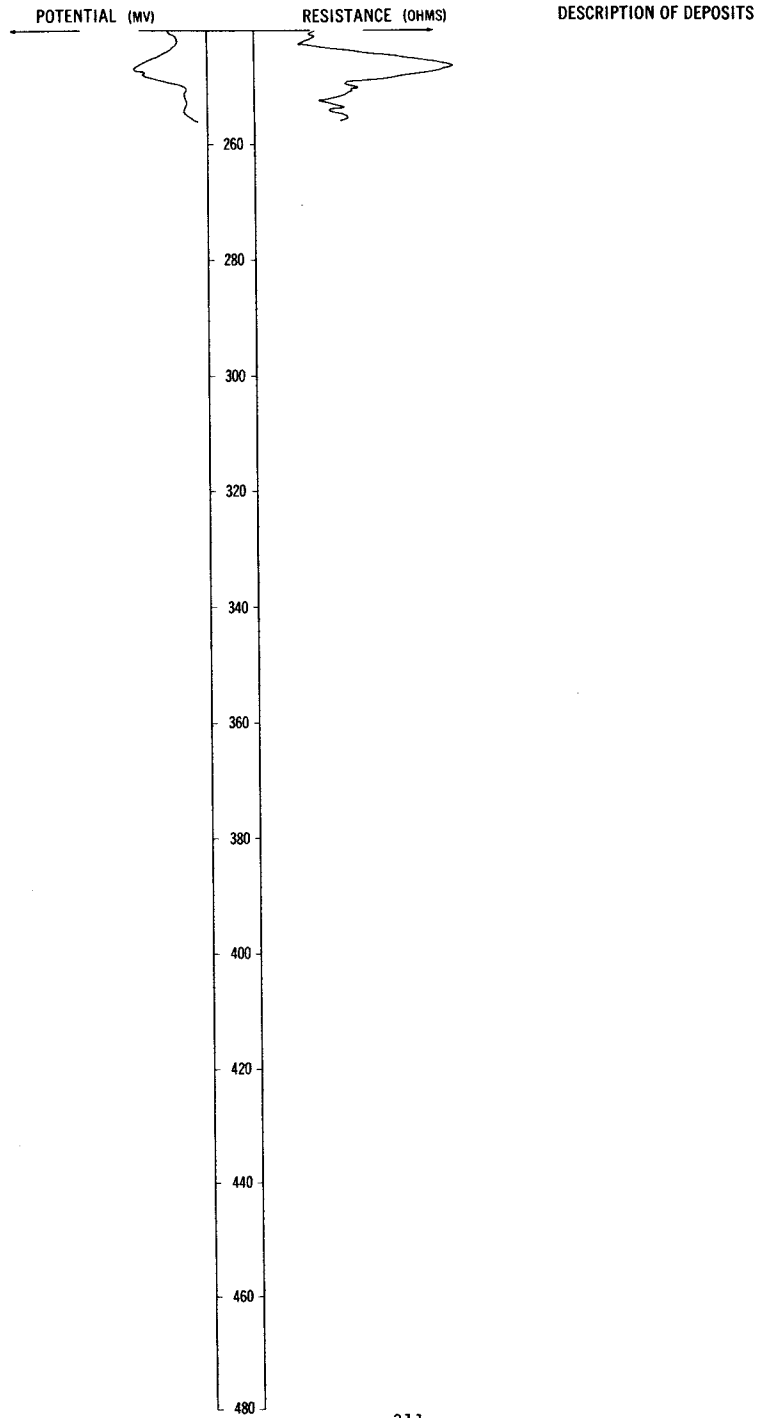
NDSWC 9460, Continued

LOCATION: 131-061-21CCC

DATE DRILLED: 10/01/75

ALTITUDE: 1416
(FT, MSL)

DEPTH: 256
(FT)

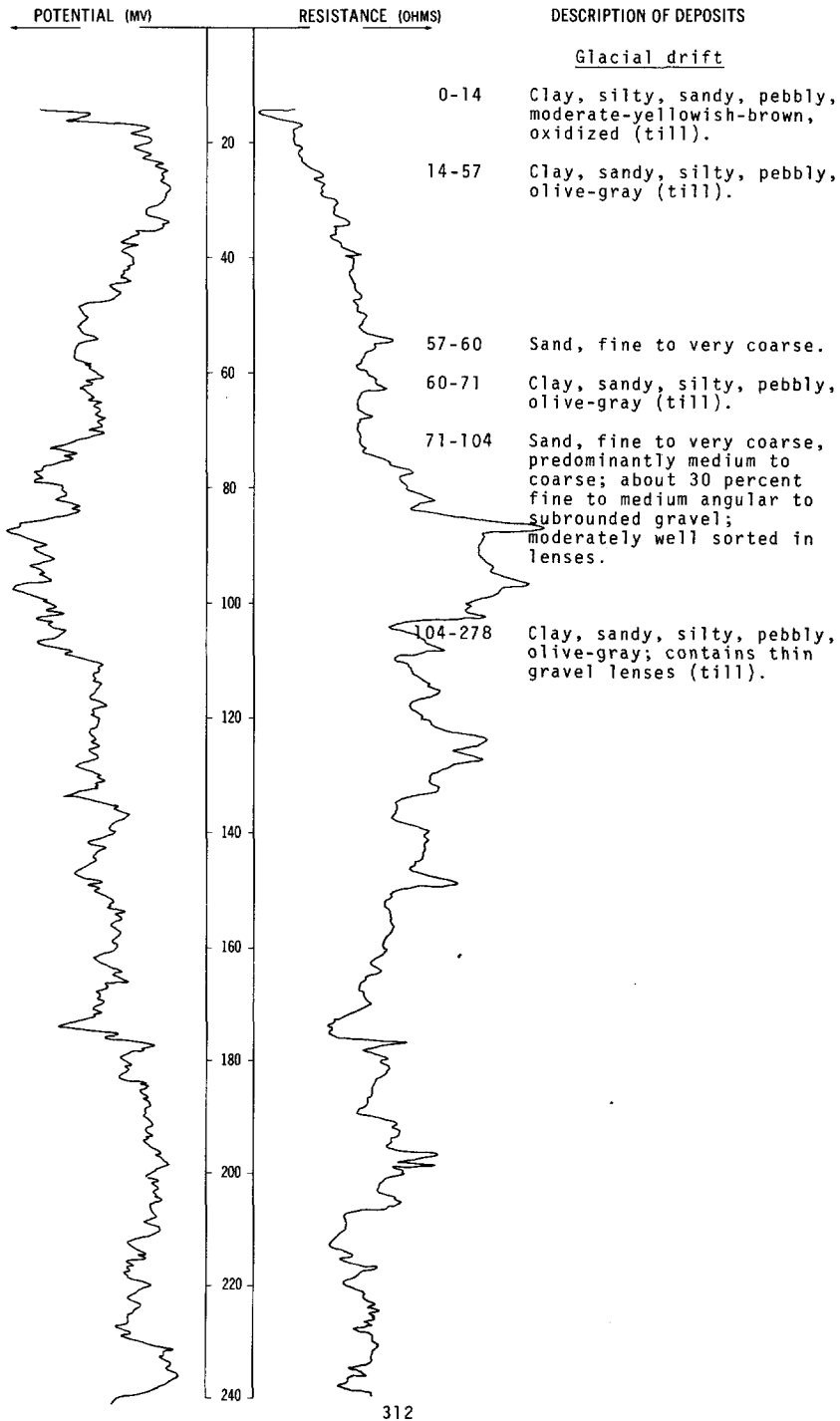


LOCATION: 131-061-29BBB1

DATE DRILLED: 9/30/75

ALTITUDE: 1405
(FT, MSL)

DEPTH: 300
(FT)



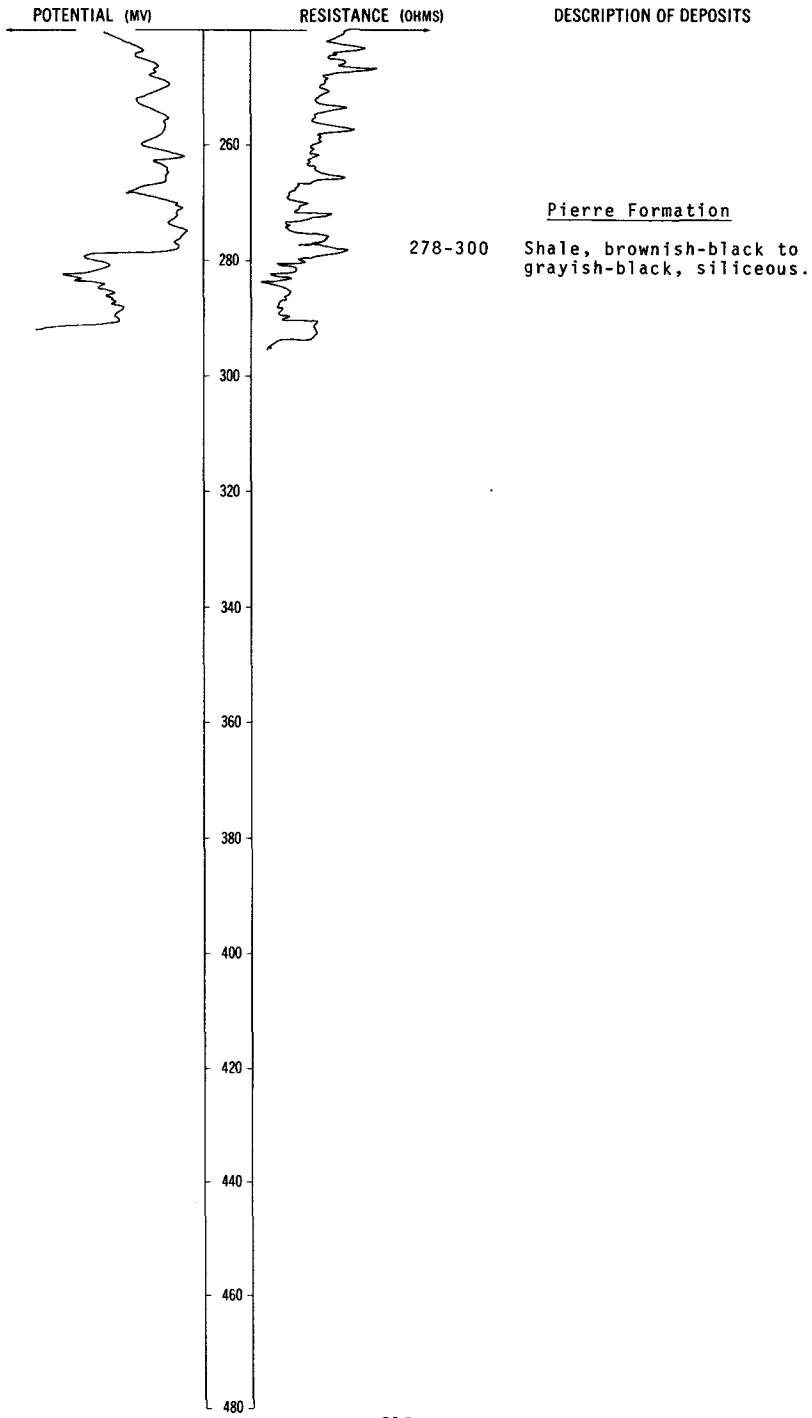
NDSWC 9459, Continued

LOCATION: 131-061-298881

DATE DRILLED: 9/30/75

ALTITUDE: 1405
(FT, MSL)

DEPTH: 300
(FT)

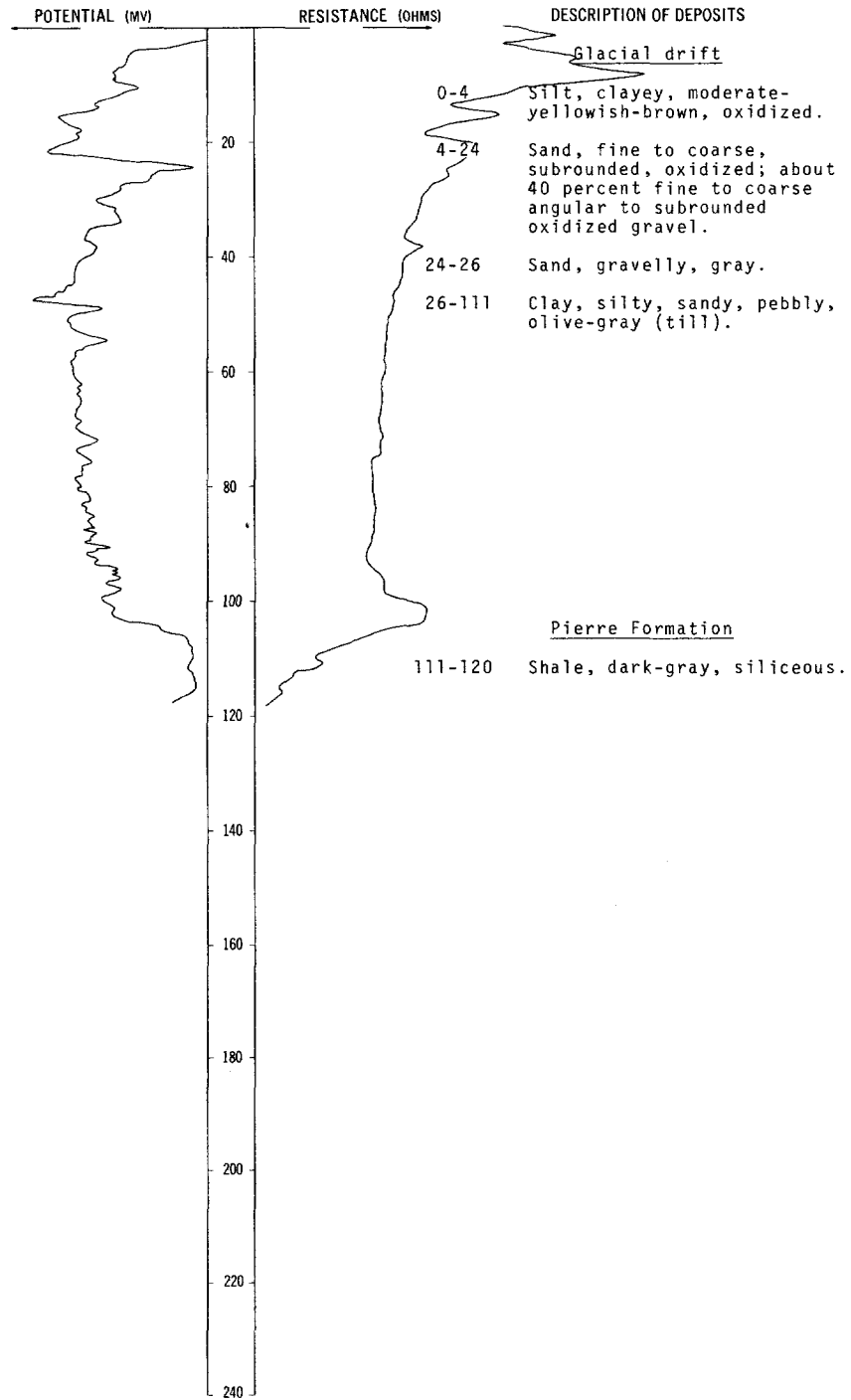


LOCATION: 131-062-07CCC

DATE DRILLED: 10/01/74

ALTITUDE: 1450
(FT, MSL)

DEPTH: 120
(FT)

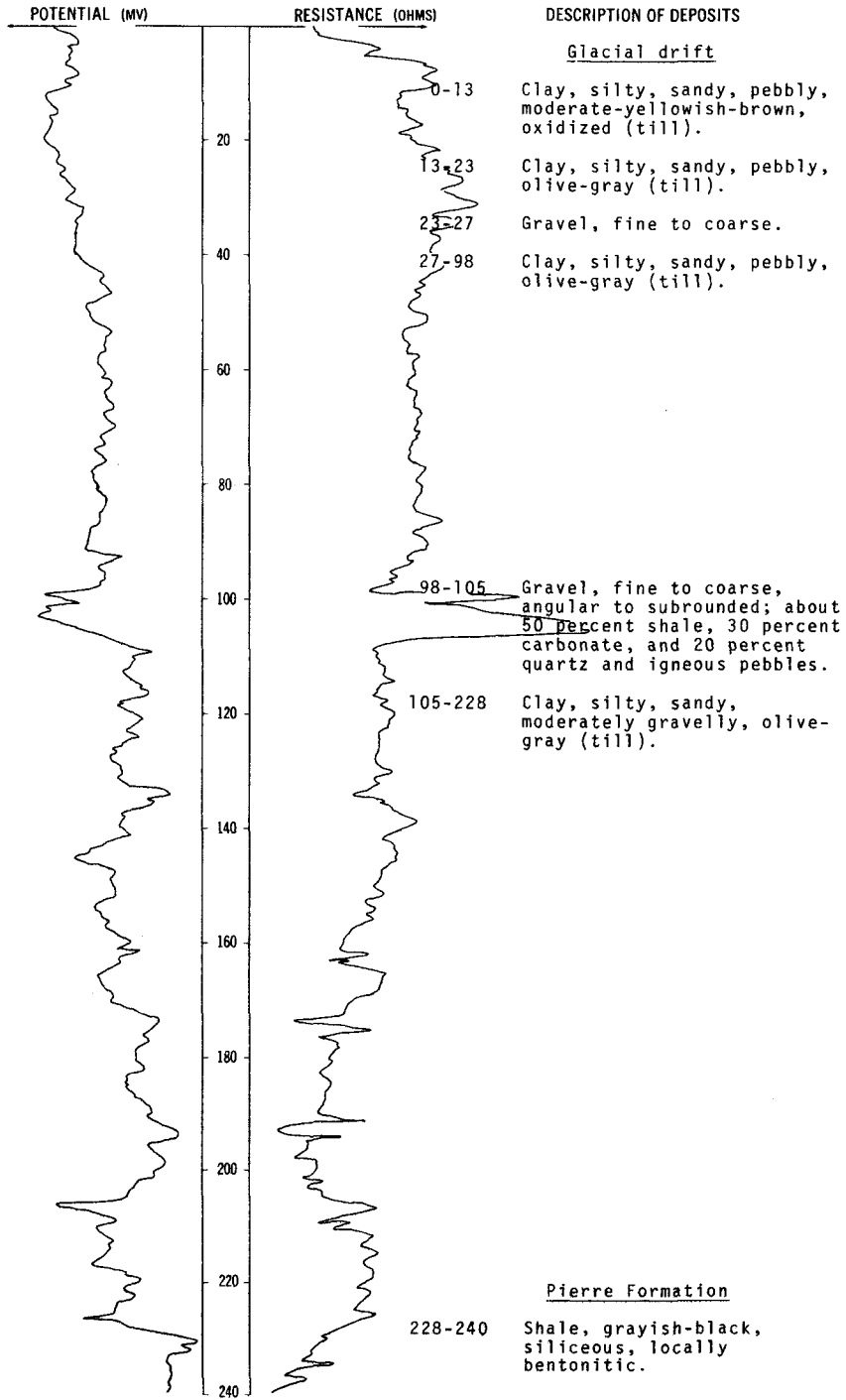


LOCATION: 131-062-22CCC

DATE DRILLED: 9/29/75

ALTITUDE: 1423
(FT, MSL)

DEPTH: 240
(FT)

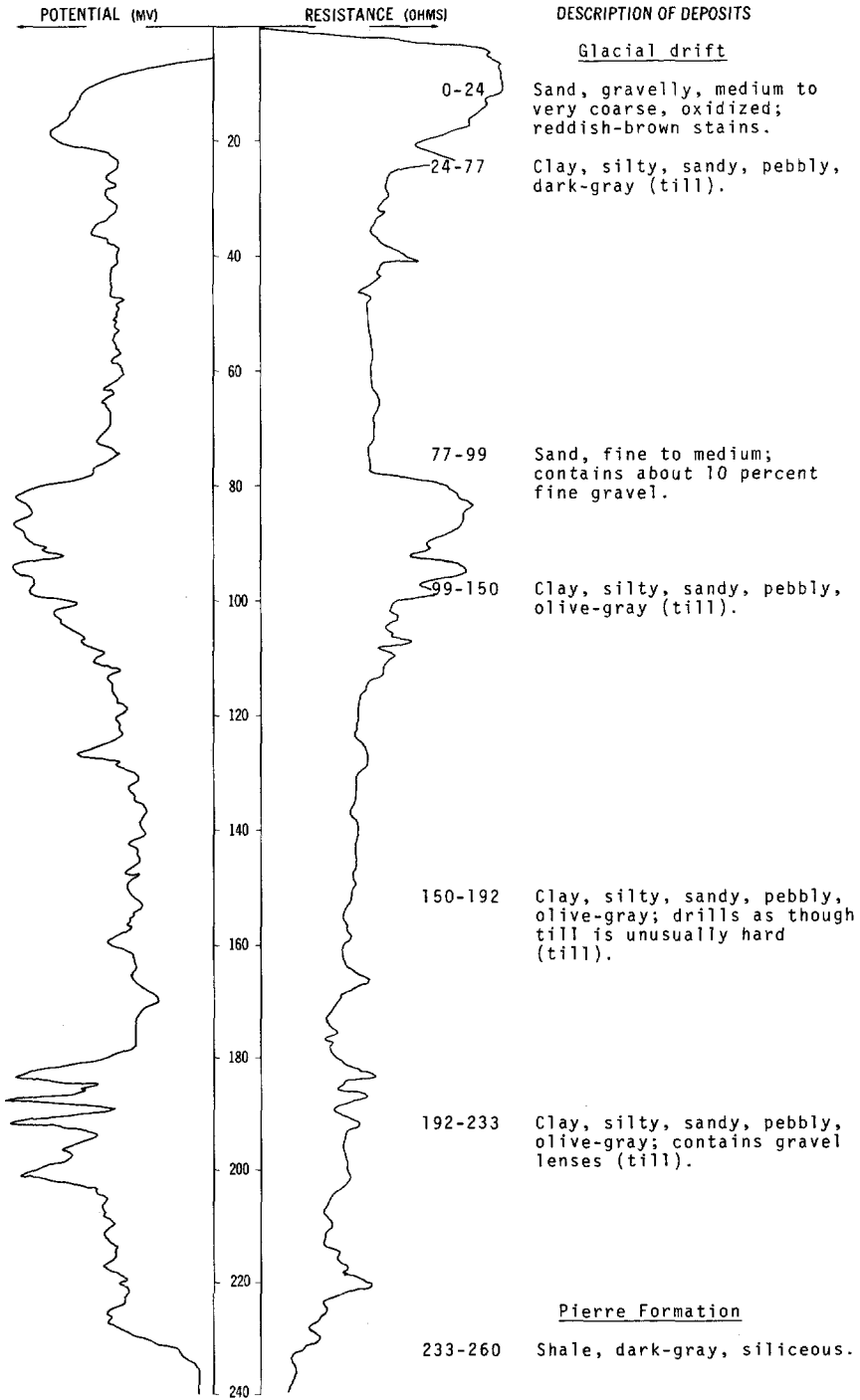


LOCATION: 131-062-23CBB

DATE DRILLED: 10/01/74

ALTITUDE: 1420
(FT, MSL)

DEPTH: 260
(FT)



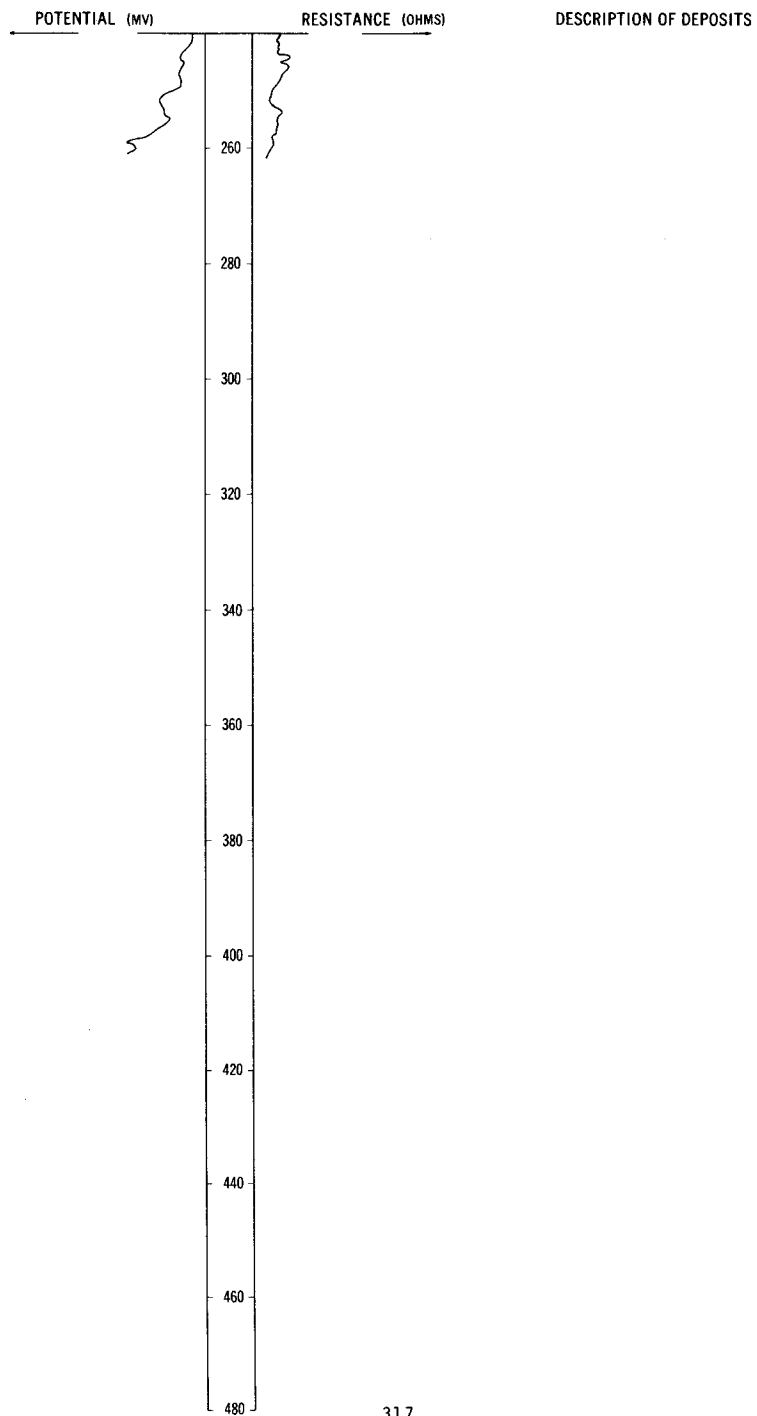
NDSWC 9137, Continued

LOCATION: 131-062-23CBB

DATE DRILLED: 10/01/74

ALTITUDE: 1420
(FT, MSL)

DEPTH: 260
(FT)

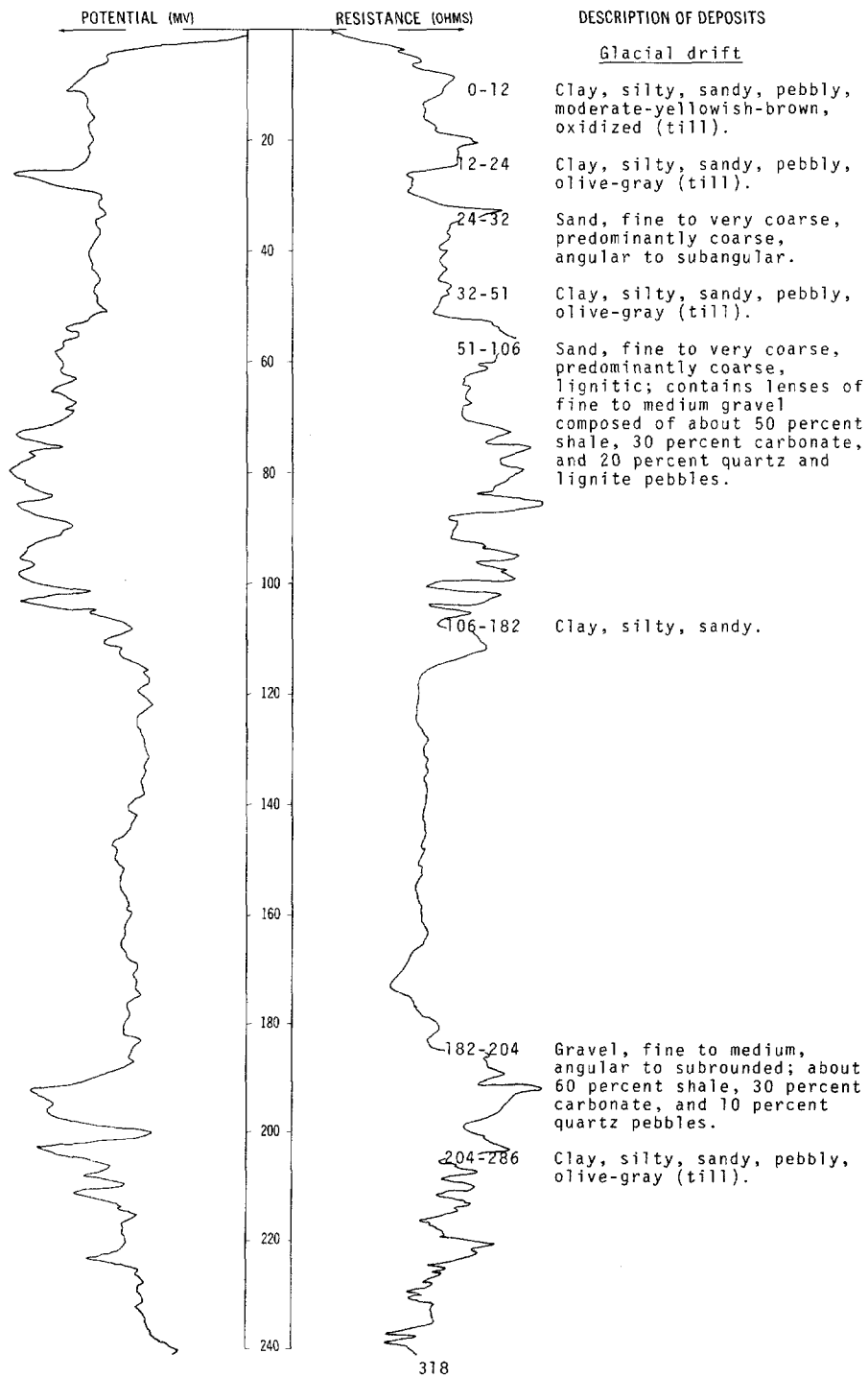


LOCATION: 131-062-24DDD1

DATE DRILLED: 9/30/75

ALTITUDE: 1410
(FT, MSL)

DEPTH: 300
(FT)



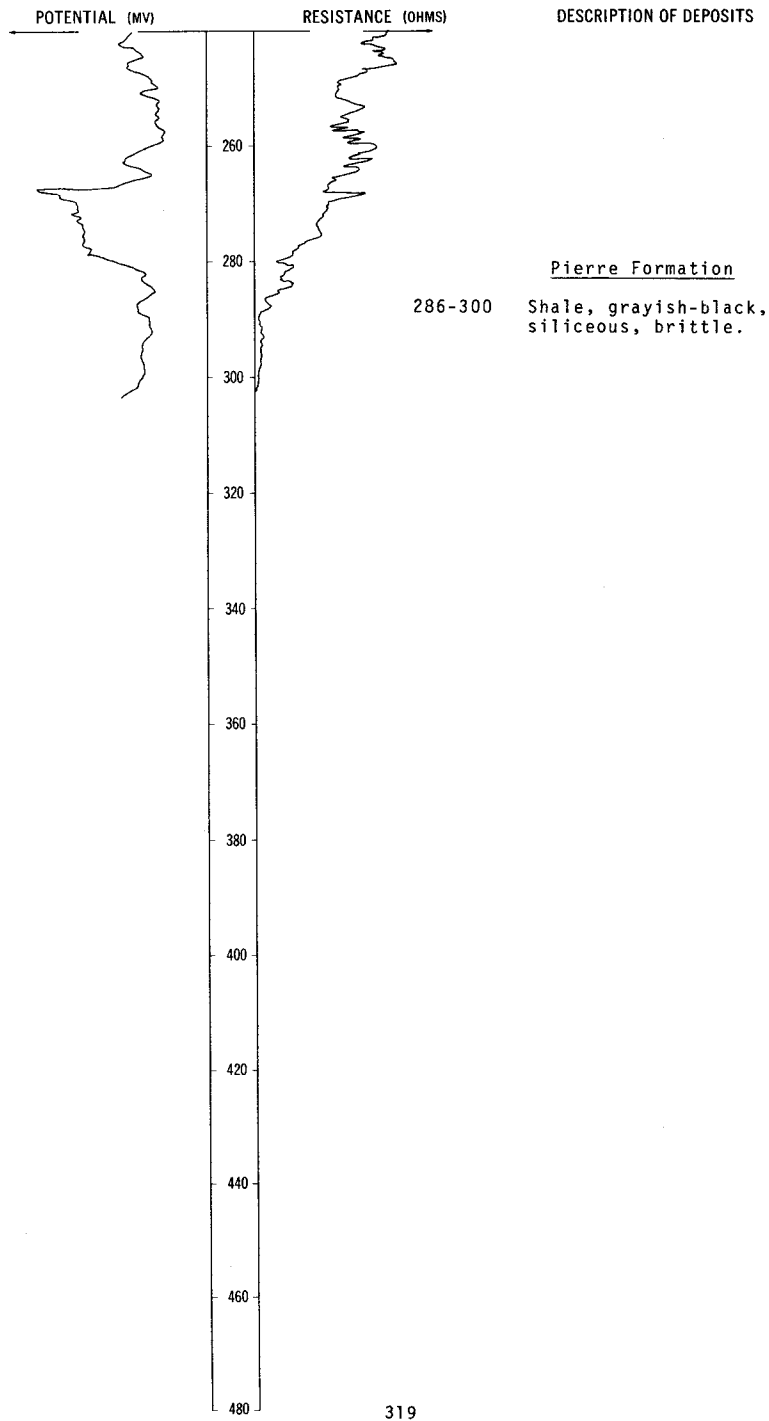
NDSWC 9458, Continued

LOCATION: 131-062-24DDD1

DATE DRILLED: 9/30/75

ALTITUDE: 1410
(FT, MSL)

DEPTH: 300
(FT)

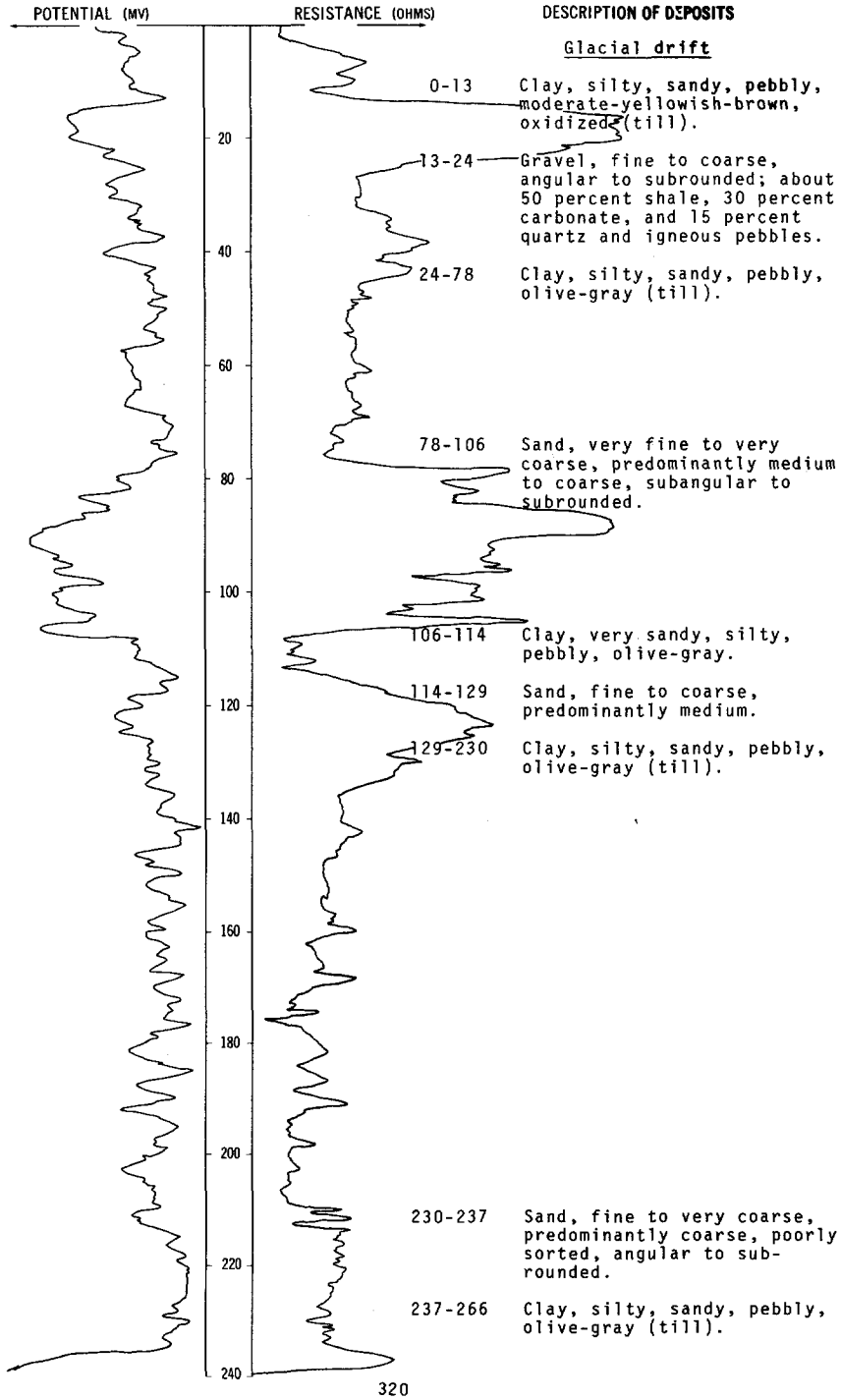


LOCATION: 131-062-26AAA1

DATE DRILLED: 9/30/75

ALTITUDE: 1406
(FT, MSL)

DEPTH: 280
(FT)



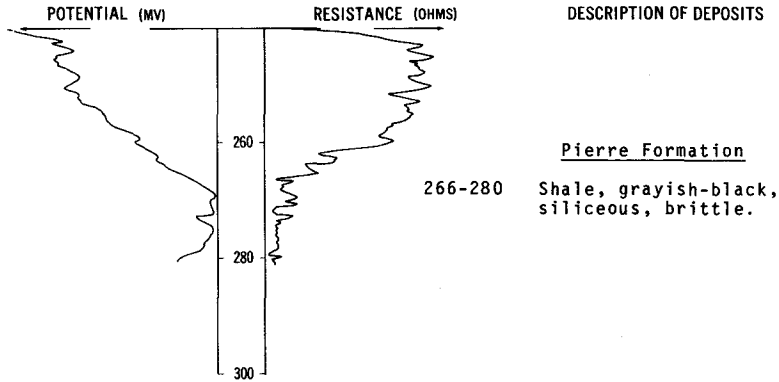
NDSWC 9457, Continued

LOCATION: 131-062-26AAA1

DATE DRILLED: 9/30/75

ALTITUDE: 1406
(FT, MSL)

DEPTH: 280
(FT)



131-063-07CCC
(Log from Albrecht Well Work)

Date drilled: 4/ /73

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, black-----	2	2
	Clay, silty, yellow-----	18	20
	Clay, sandy, blue-----	10	30
Pierre Formation:			
	Shale, black-----	15	45

131-063-16ADA
NDSWC 9139

Altitude: 1460 feet

Date drilled: 10/01/74

Glacial drift:			
	Topsoil, silty, sandy, black-----	1	1
	Silt, sandy, moderate-yellowish-brown, oxidized-----	4	5
	Sand, fine to coarse; about 20 percent fine to coarse gravel-----	7	12
	Clay, silty, sandy, pebbly, olive-gray-----	3	15
Pierre Formation:			
	Shale, grayish-black, siliceous, brittle-----	5	20

131-063-17AAA
NDSWC 9508

Altitude: 1500 feet Date drilled: 11/13/75

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, very sandy, silty, pebbly, moderate-yellowish-brown, oxidized (till)-----	15	15
	Clay, sandy, silty, pebbly, medium-dark-gray to olive-gray; gravelly from 25 to 38 feet-----	23	38
Pierre Formation:			
	Shale, black to grayish-black, hard-----	22	60

131-063-18AAA
(Log from Albrecht Well Work)

Date drilled: 4/13/73

Glacial drift:			
	Topsoil, black-----	3	3
	Clay, silty, yellow-----	17	20
	Clay, blue, stony-----	13	33
	Sand, stony, dark-----	3	36

131-064-01DDD
(Log from Albrecht Well Work)

Date drilled: 4/26/73

Glacial drift:			
	Topsoil, black-----	2	2
	Clay, silty, yellow-----	15	17
	Clay, sandy, blue-----	1	18
	Gravel, black sand, hard-----	6	24
Pierre Formation:			
	Shale-----	--	24

131-064-02CCC
(Log from Albrecht Well Work)

		Date drilled: 5/01/73	
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, black-----	2	2
	Clay, silty, yellow-----	6	8
	Gravel, sandy, shale chips-----	3	11
Pierre Formation:			
	Shale, black, hard-----	2	13

131-064-10CDD
(Log from Albrecht Well Work)

		Date drilled: 4/18/73	
Glacial drift:			
	Topsoil, black-----	3	3
	Clay, silty, gray-----	7	10
Pierre Formation:			
	Shale, black, hard-----	6	16

131-064-15BAC
(Log from Albrecht Well Work)

		Date drilled: 4/18/73	
Glacial drift:			
	Topsoil, black-----	3	3
	Clay, silty, gray-----	7	10
Pierre Formation:			
	Shale-----	5	15

131-064-15DAA
NDSWC 9156

Altitude: 1540 feet

Date drilled: 10/09/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, sandy, moderate-brown-----	1	1
	Silt, sandy, yellowish-brown, oxidized; gravel lenses-----	3	4
	Clay, silty, sandy, pebbly, dark-yellowish-brown (till)-----	3	7
Pierre Formation:			
	Shale, dark-gray, siliceous, fractured-----	33	40

131-065-06CCB
(Log from Jacob Thurn)

Date drilled: 11/08/72

Glacial drift:			
	Dirt, black-----	3	3
	Clay, yellow-----	17	20
	Clay, blue-----	14	34
	Sand, gravelly, rocky-----	2	36

131-065-14BBB
NDSWC 9164

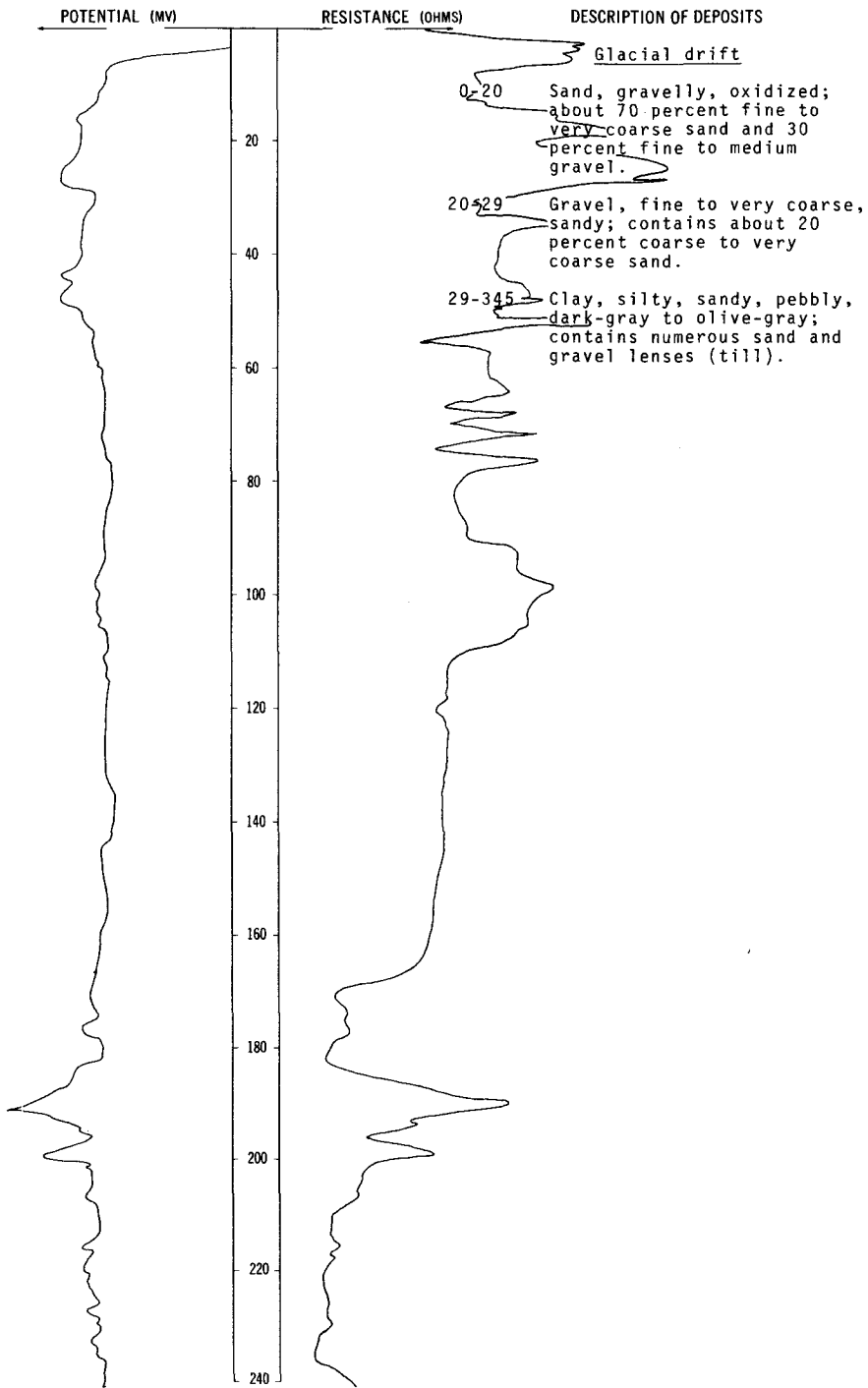
Altitude: 1697 feet

Date drilled: 10/11/74

Glacial drift:			
	Gravel, sandy, oxidized; about 80 percent fine to medium gravel and 20 percent coarse sand-----	9	9
	Clay, silty, sandy, pebbly, dark-gray (till)-----	6	15
	Sand, gravelly; about 70 percent fine to very coarse sand and 30 percent fine to medium gravel-----	5	20
	Clay, silty, sandy, pebbly, dark-gray; contains sand and gravel lenses (till)-----	36	56
Pierre Formation:			
	Shale, grayish-black, siliceous, brittle-----	24	80

LOCATION: 131-066-27BBB
ALTITUDE: 1992
(FT, MSL)

DATE DRILLED: 10/10/74
DEPTH: 360
(FT)



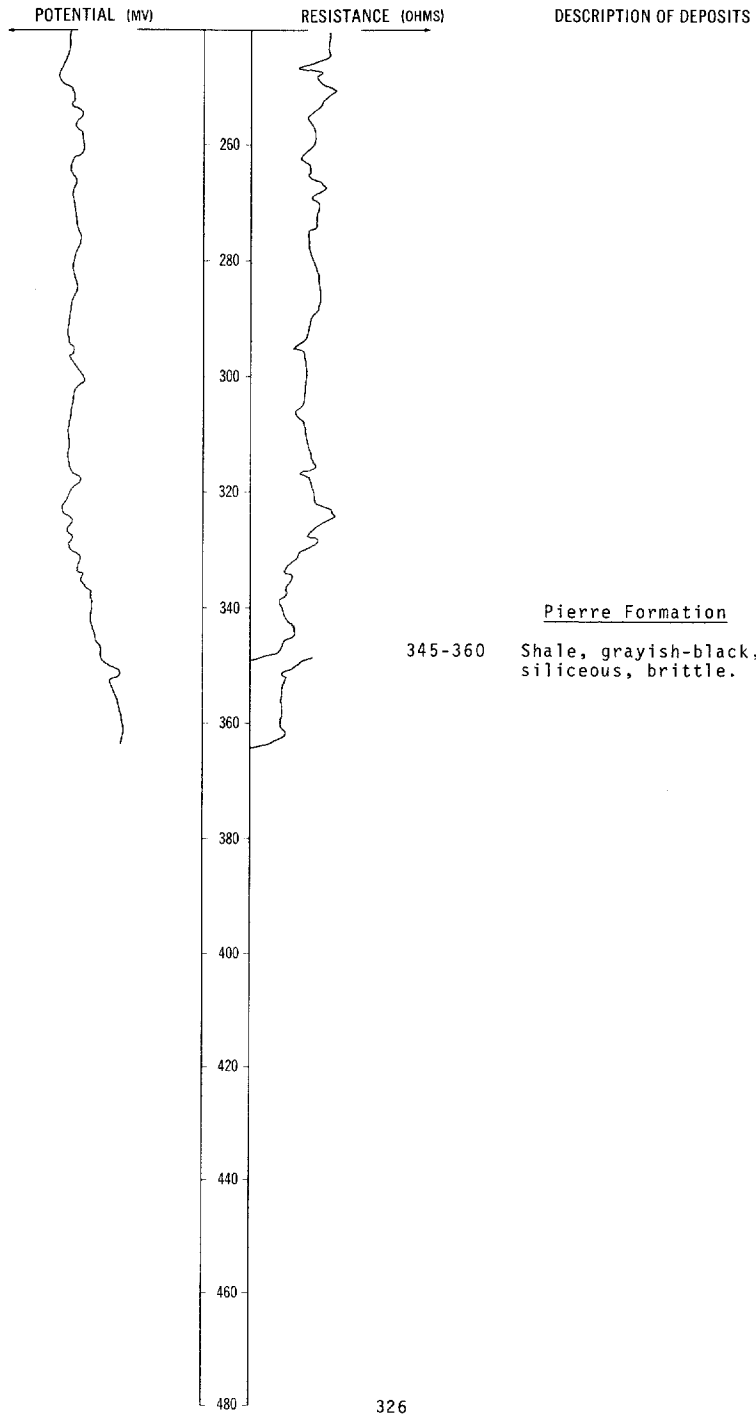
NDSWC 9163, Continued

LOCATION: 131-066-27BBB

DATE DRILLED: 10/10/74

ALTITUDE: 1992
(FT, MSL)

DEPTH: 360
(FT)

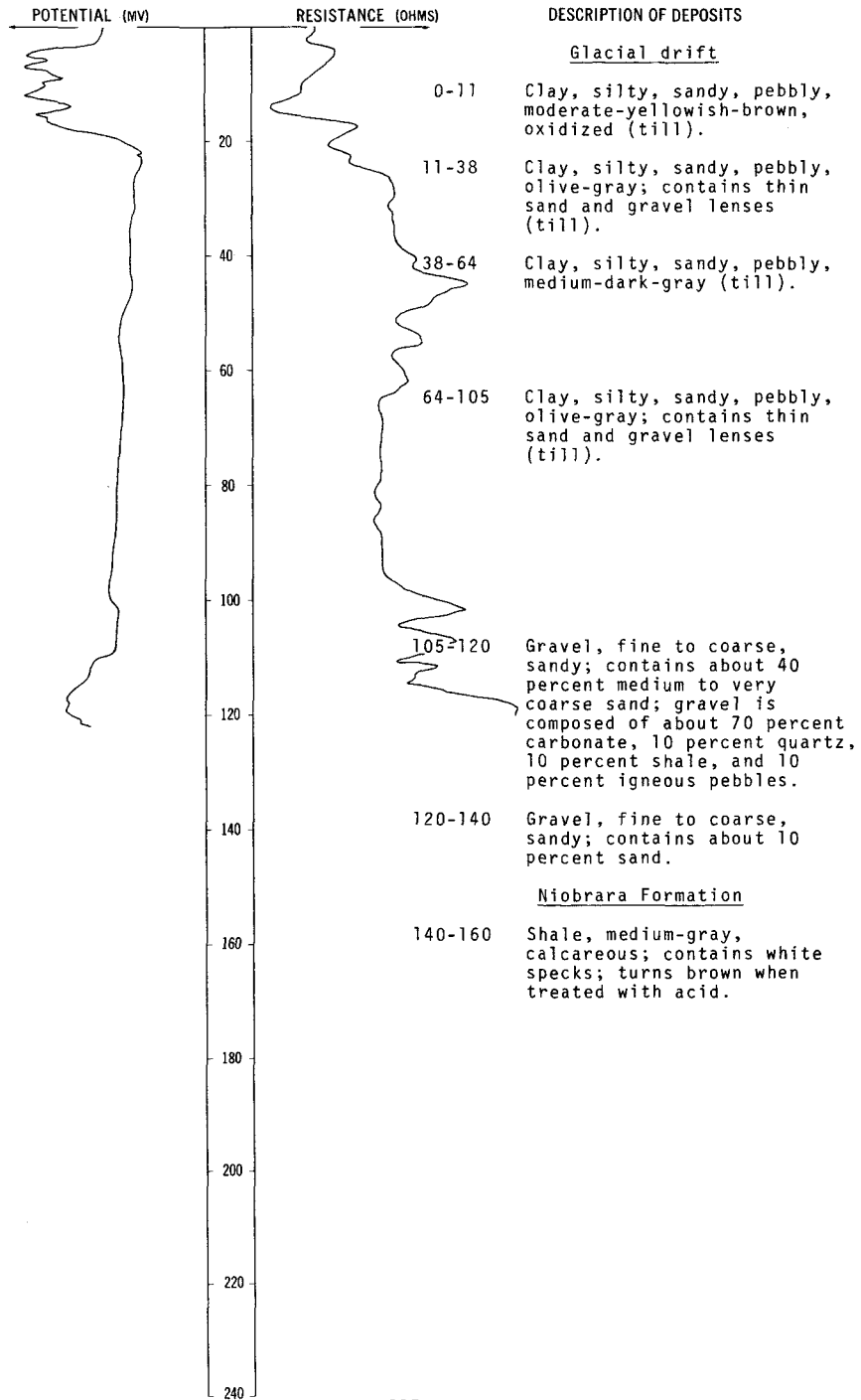


LOCATION: 132-059-03CCC

DATE DRILLED: 10/03/74

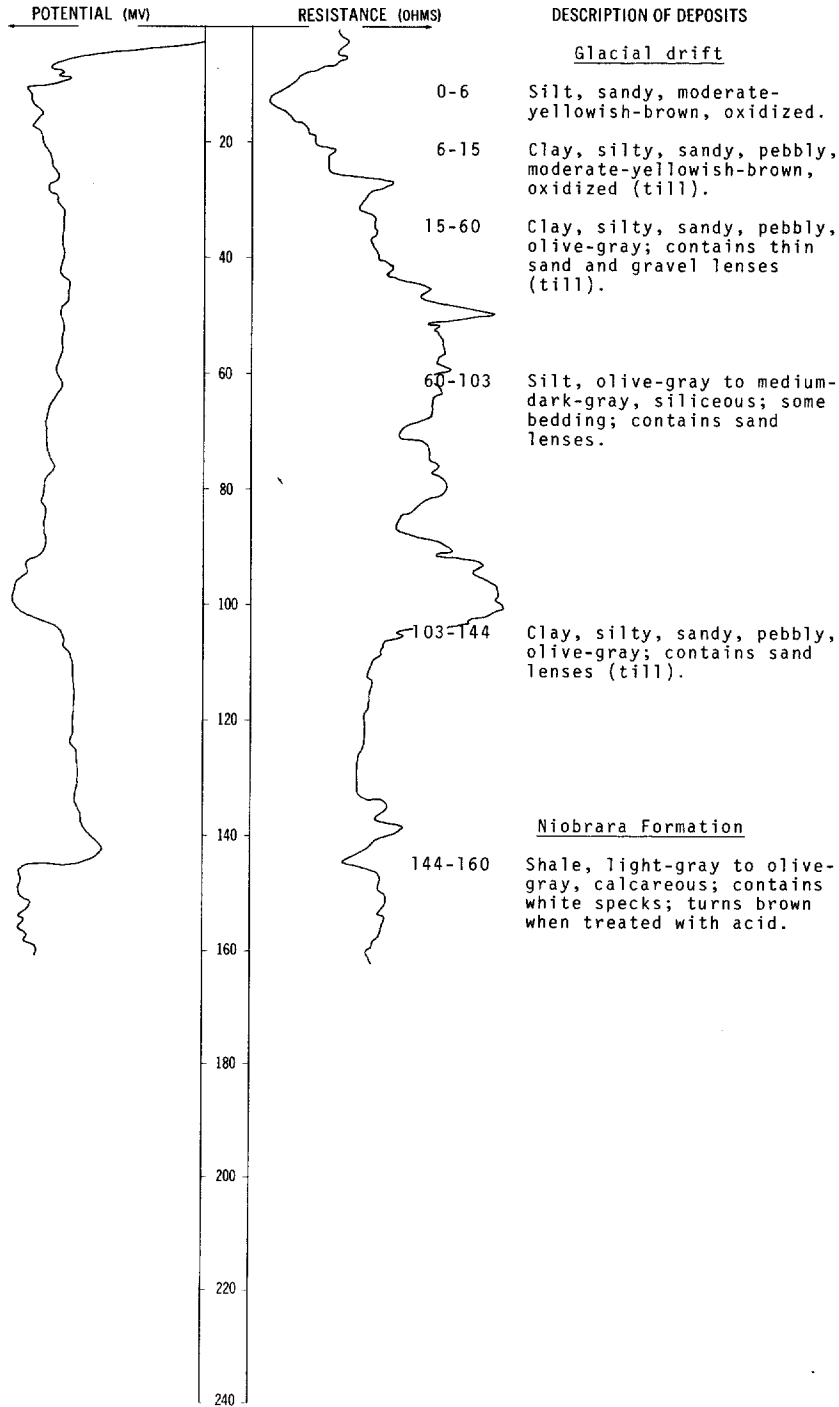
ALTITUDE: 1327
(FT. MSL)

DEPTH: 160
(FT)



LOCATION: 132-059-12BBB
 ALTITUDE: 1330
 (FT. MSL)

DATE DRILLED: 10/04/74
 DEPTH: 160
 (FT)



132-059-21DCD
(Log from Falk Bros. Well Drilling)

Date drilled: 11/03/72

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, yellow-----	5	5
	Sand-----	65	70

132-059-26DCC
(Log from Falk Bros. Well Drilling)

Date drilled: 5/ /72

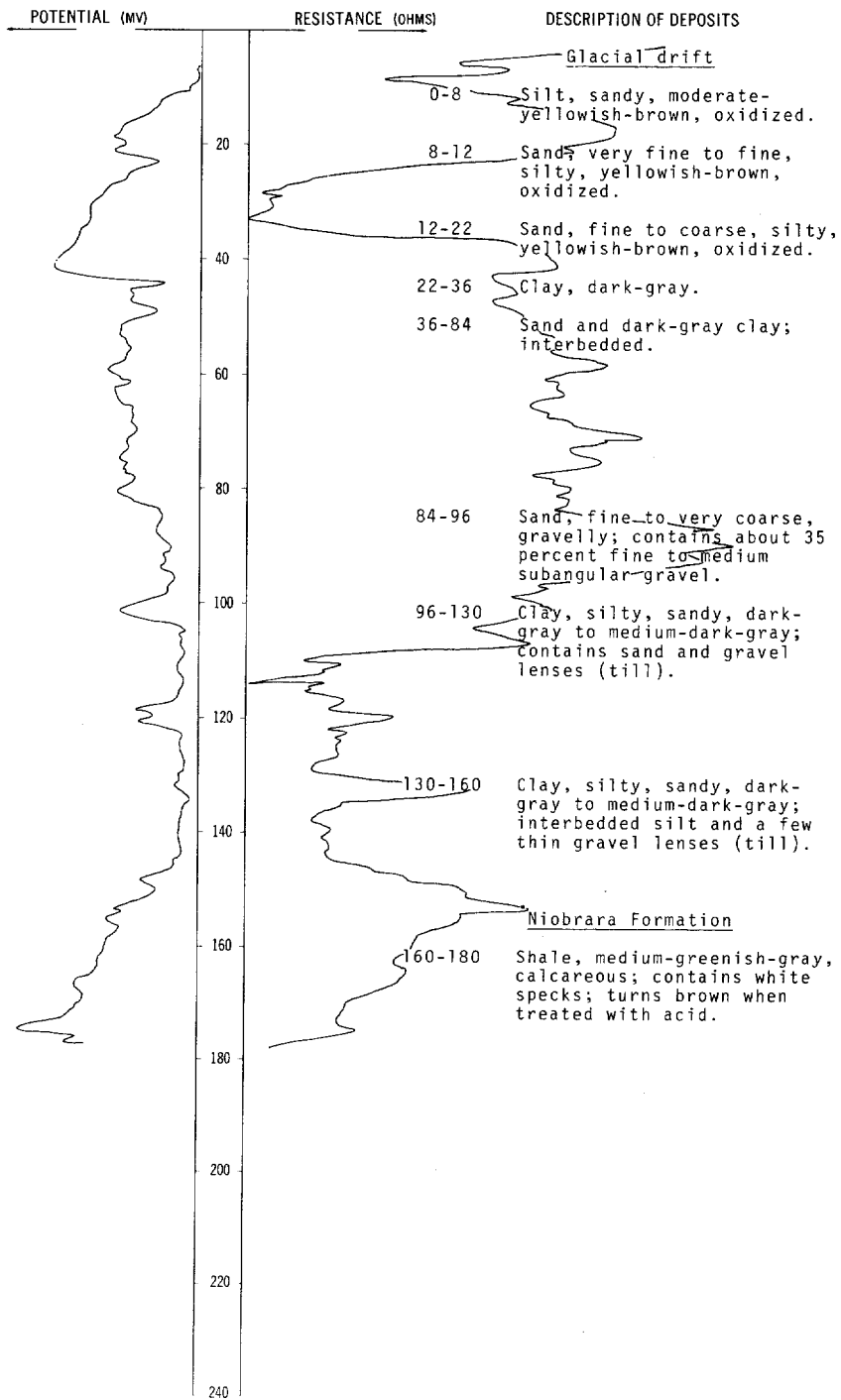
Glacial drift:			
	Clay, yellow-----	14	14
	Gravel-----	14	28
	Shale-----	74	102
	Sand-----	1	103
	Shale-----	46	149
	Sand-----	9	158

LOCATION: 132-060-05BBB

DATE DRILLED: 10/08/74

ALTITUDE: 1345
(FT, MSL)

DEPTH: 180
(FT)



132-060-12AAA
NDSWC 9144

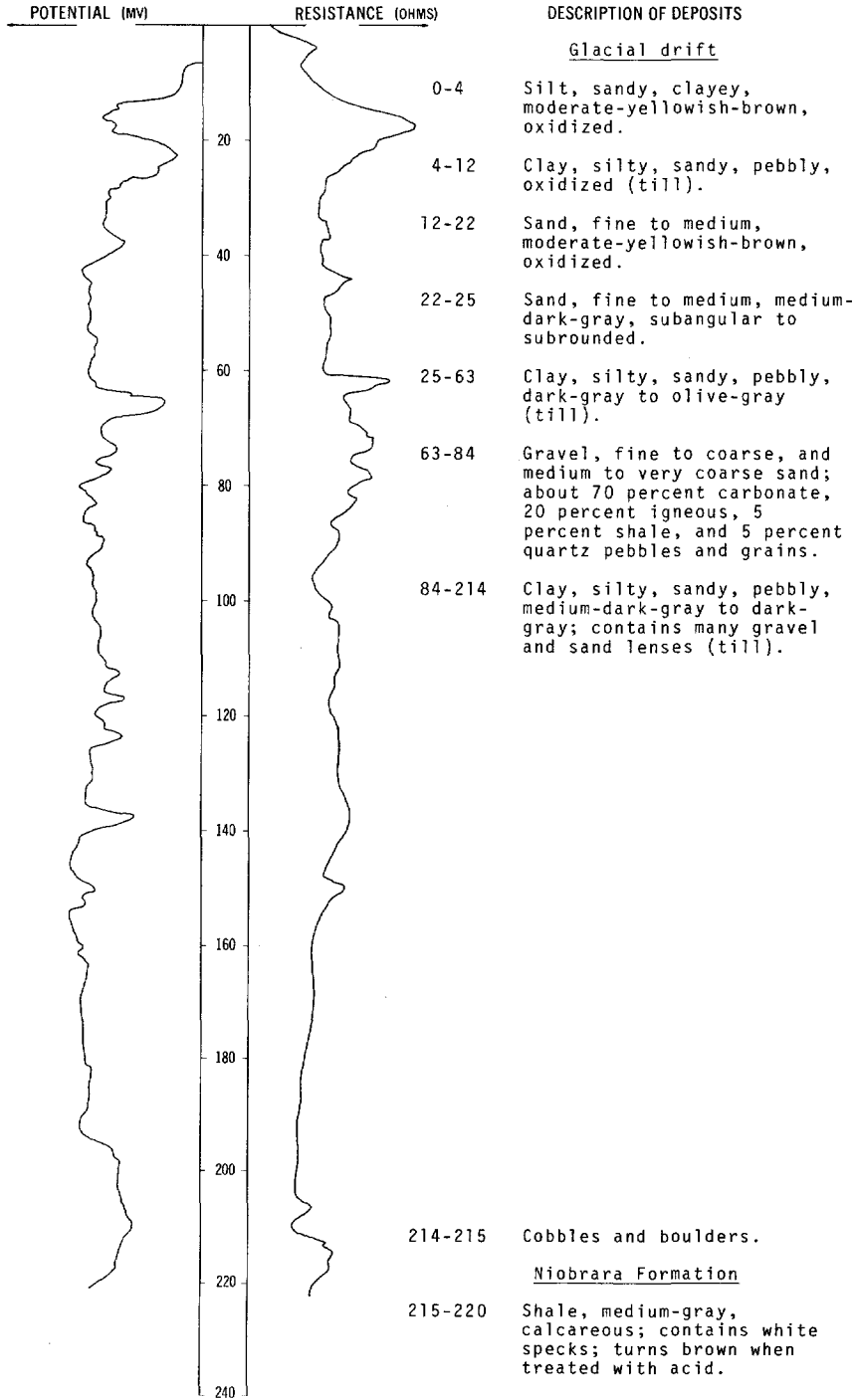
Altitude: 1385 feet

Date drilled: 10/03/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty-----	1	1
	Clay, silty, sandy, pebbly, yellowish-brown, oxidized (till)-----	21	22
	Clay, silty, sandy, pebbly, dark- gray; contains gravel lenses (till)-----	20	42
	Sand, medium to very coarse, dark- gray, clean-----	18	60
	Gravel, cobbles, and silt lenses-----	5	65
	Clay, silty, sandy, pebbly, olive- gray (till)-----	9	74
	Sand, coarse, and fine to medium gravel; contains clay lenses-----	8	82
	Clay, silty, sandy, pebbly, dark- gray, dense; contains sand lenses (till)-----	138	220
	Gravel; predominantly shale pebbles-----	7	227
Niobrara Formation:			
	Shale, medium-gray, calcareous; with a green tint; contains white specks-----	13	240

LOCATION: 132-060-16AAA
 ALTITUDE: 1380
 (FT, MSL)

DATE DRILLED: 10/03/74
 DEPTH: 220
 (FT)



132-060-19BCC
USBR L-1

Altitude: 1298 feet

Date drilled: 7/11/67

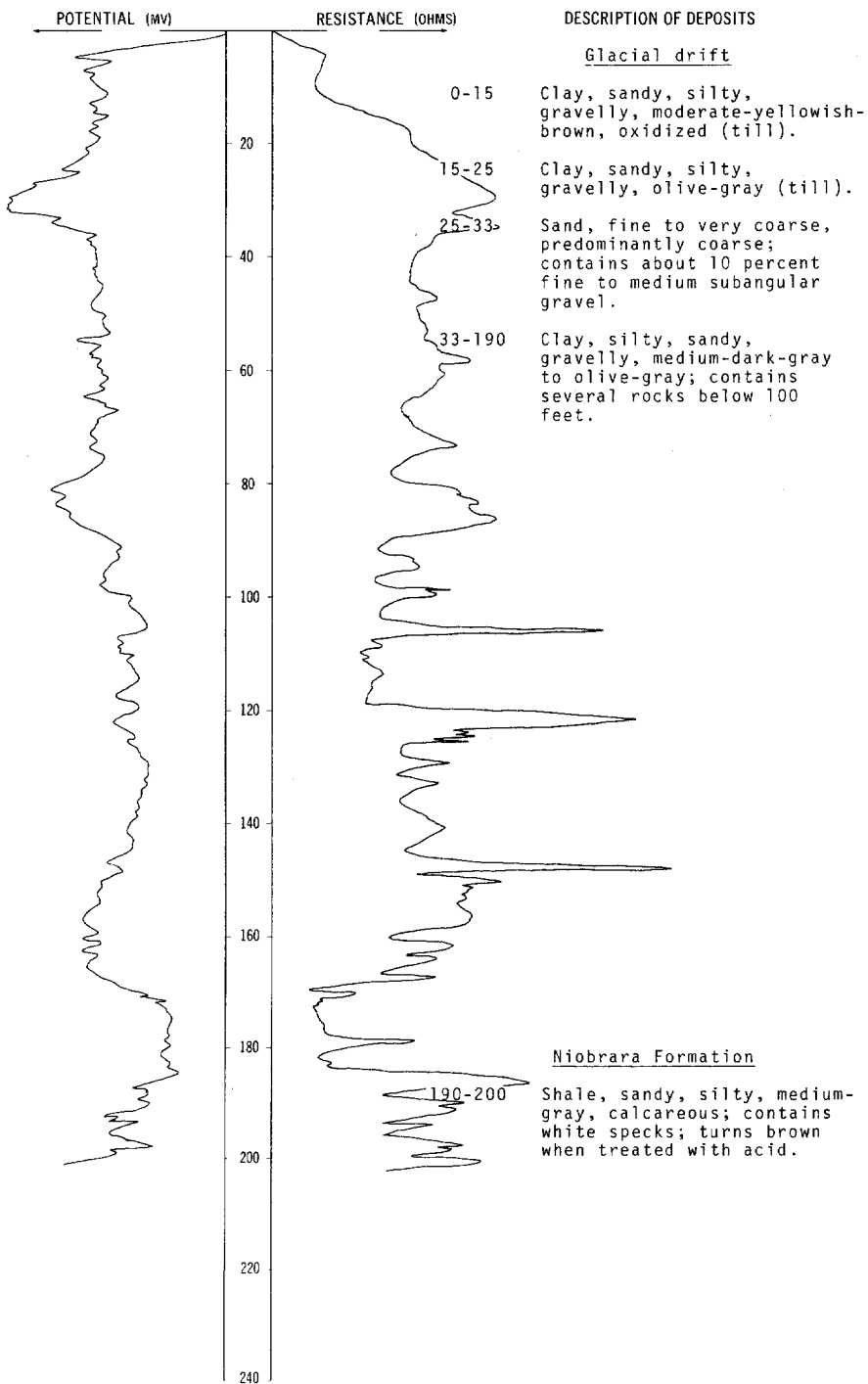
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay-----	11	11
	Clay, silty-----	2	13
	Loam, fine, sandy-----	4	17
	Sand, coarse, loamy-----	4	21
	Loam, silty-----	3	24

LOCATION: 132-060-24AAA

DATE DRILLED: 10/03/75

ALTITUDE: 1375
(FT, MSL)

DEPTH: 200
(FT)



132-060-28BDB
(Log from Traut Wells, Inc.)

Date drilled: 10/01/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Clay, brown-----	30	30
	Sand, brown-----	5	35
	Clay, gray-----	33	68
	Sand, gray-----	2	70
	Clay, gray-----	50	120

132-060-31DBB
(Log from Beitz Pump Service)

Date drilled: 4/16/73

Glacial drift:			
	Clay, yellow-----	26	26
	Sand-----	28	54
	Rock, crushed-----	1	55
	Clay, sandy, blue-----	5	60
	Clay, gravelly, blue-----	27	87
	Clay, sandy, fine, blue-----	6	93

132-061-09DCC
(Log from Falk Bros. Well Drilling)

Date drilled: 11/16/72

Glacial drift:			
	Clay, yellow-----	12	12
	Shale-----	30	42
	Sand-----	27	69

132-061-11ADA
USBR L-7

Altitude: 1313 feet

Date drilled: 7/17/70

Glacial drift:			
	Loam, silty-----	3	3
	Clay, silty-----	7	10
	Loam, sandy-----	4	14
	Sand, loamy-----	4	18
	Silt-----	14	32
	Sand, loamy-----	8	40

132-061-11DDD
 USBR L-6

Altitude:	1300 feet	Date drilled:	7/17/70
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Loam, silty-----	2	2
	Loam, silty, dense-----	3	5
	Sand, coarse, and gravel-----	15	20

132-061-14BBB
 USBR L-5

Altitude:	1318 feet	Date drilled:	7/17/67
Glacial drift:			
	Loam, silty-----	6	6
	Sand, very fine, well-sorted-----	15	21
	Sand, coarse, well-sorted-----	3	24

132-061-14DDC
 USBR L-4

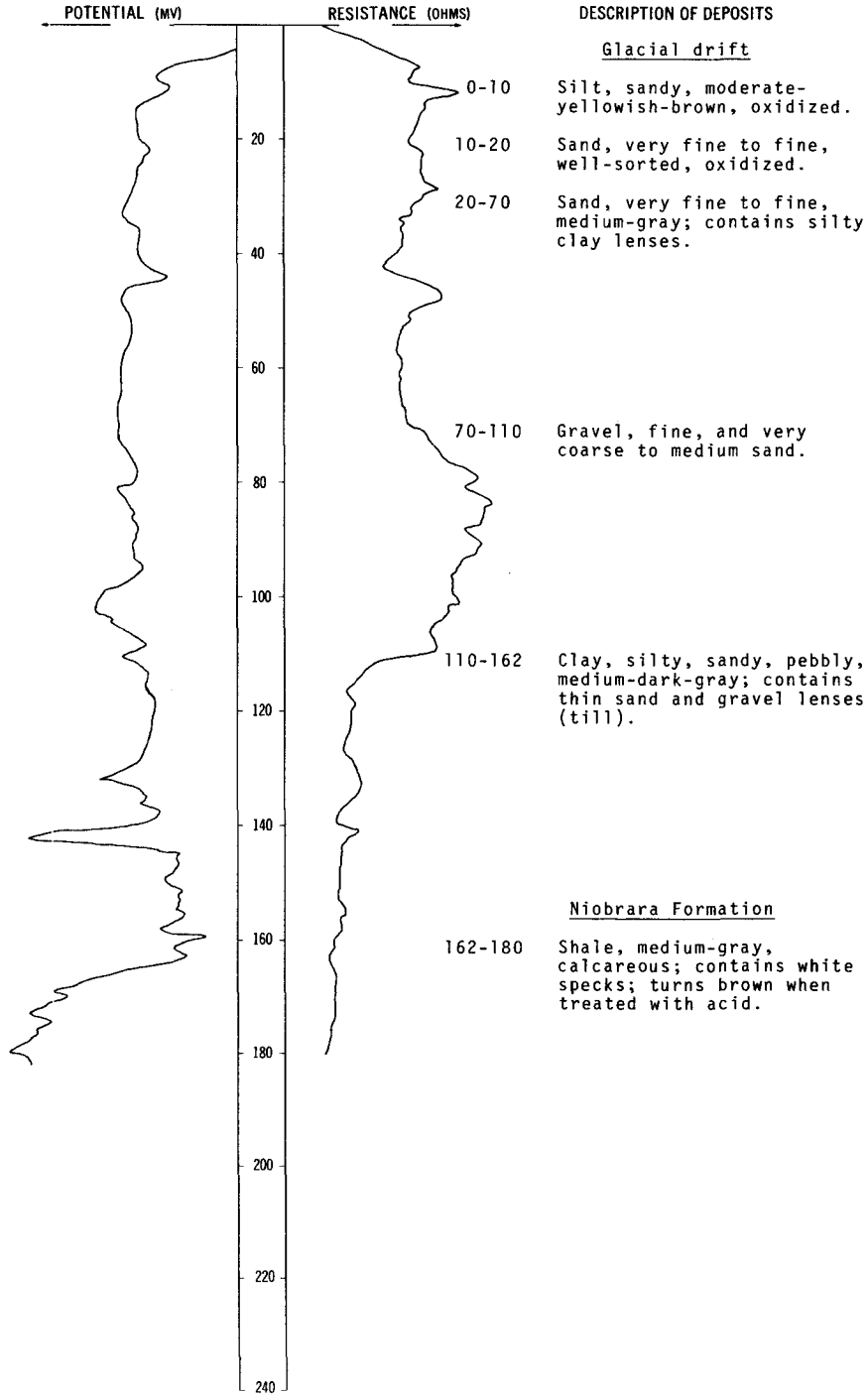
Altitude:	1326 feet	Date drilled:	7/13/70
Glacial drift:			
	Loam, silty-----	7	7
	Loam, fine, sandy-----	4	11
	Loam, coarse, sandy, with gravel-----	9	20
	Silt-----	5	25

LOCATION: 132-061-15DAA

DATE DRILLED: 10/02/74

ALTITUDE: 1308
(FT, MSL)

DEPTH: 180
(FT)



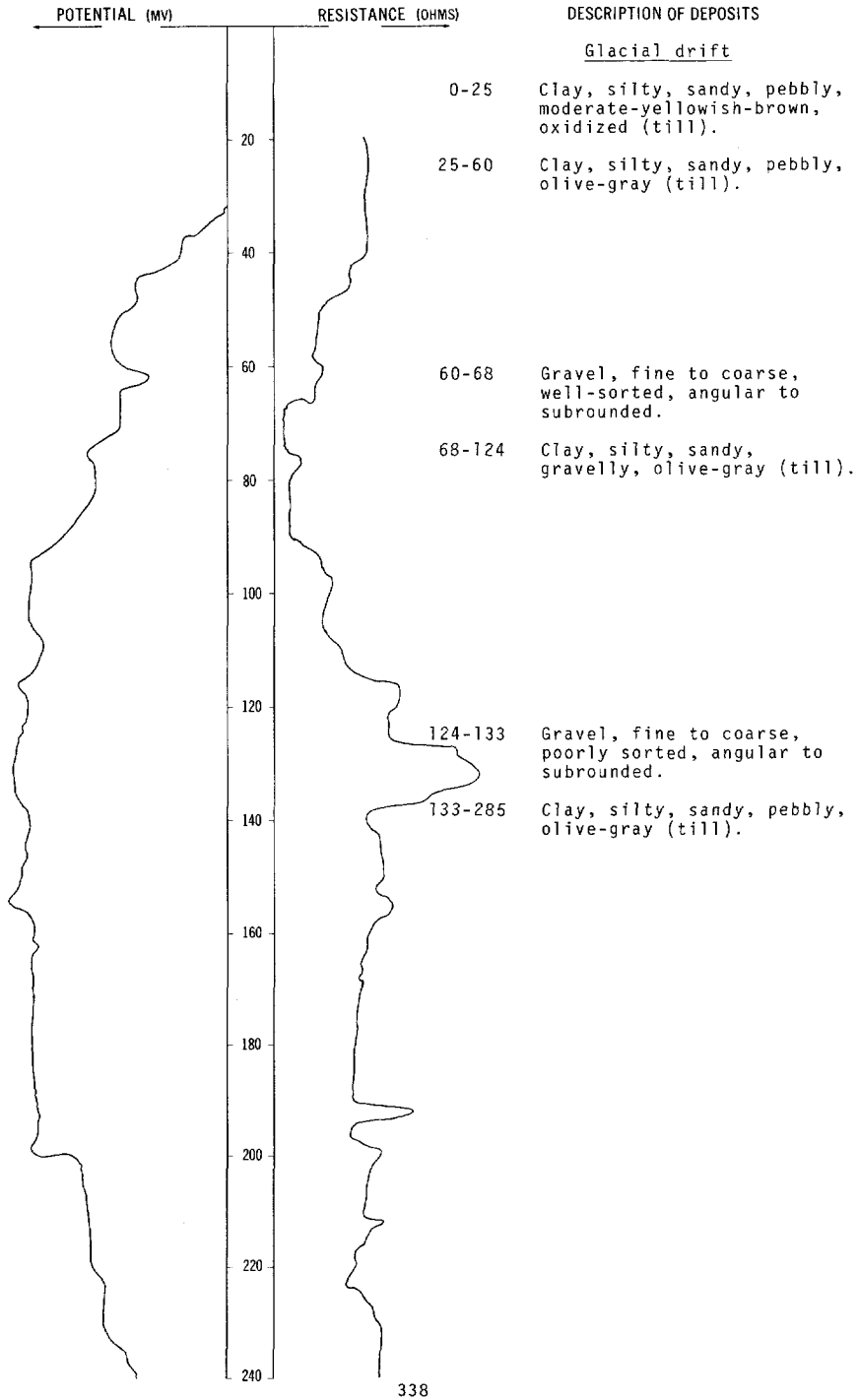
NDSWC 9465

LOCATION: 132-061-20000

DATE DRILLED: 10/03/75

ALTITUDE: 1417
(FT, MSL)

DEPTH: 295
(FT)



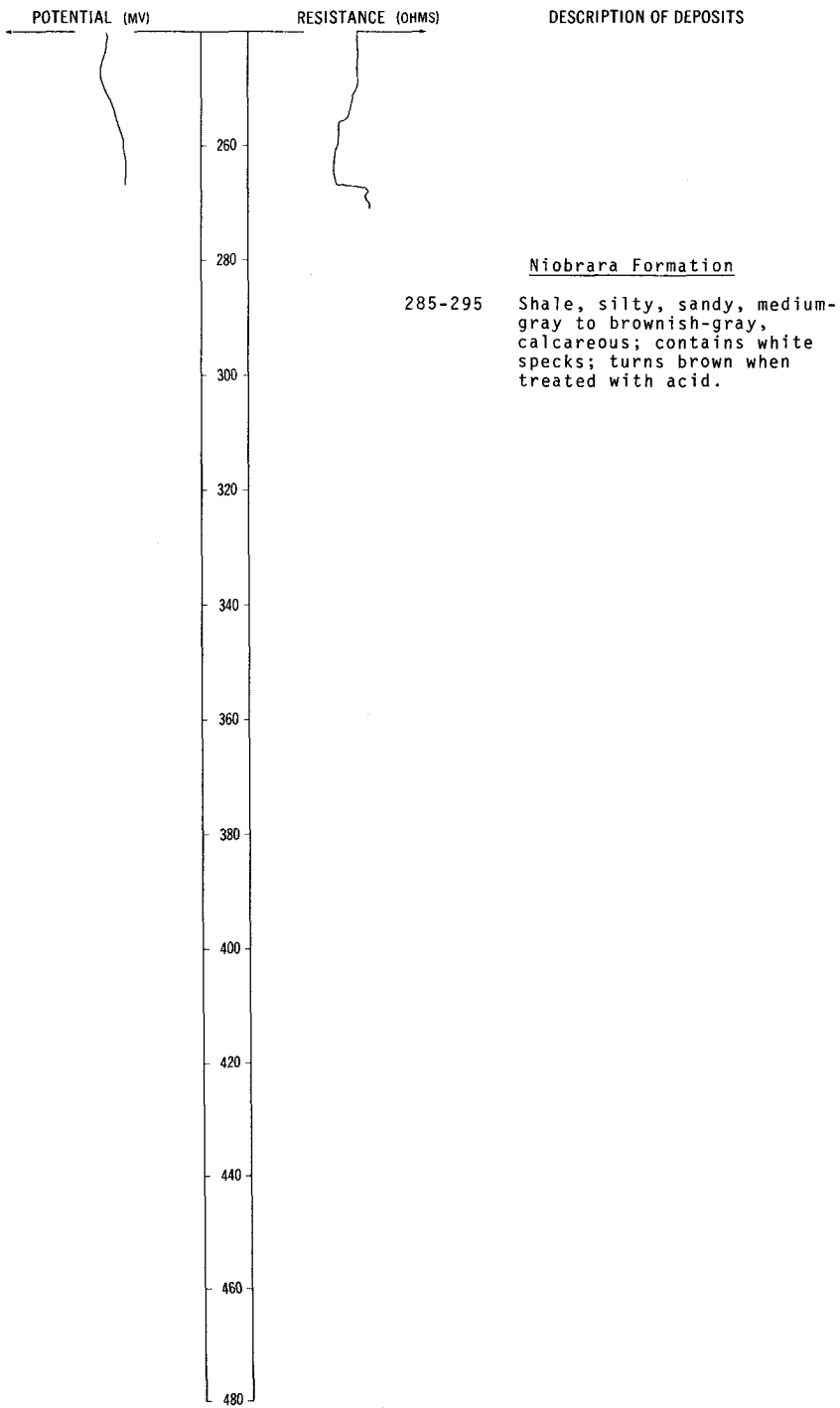
NDSWC 9465, Continued

LOCATION: 132-061-20DDD

DATE DRILLED: 10/03/75

ALTITUDE: 1417
(FT. MSL)

DEPTH: 295
(FT)



132-061-23ADA
USBR L-3

Altitude: 1310 feet Date drilled: 7/12/67

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Loam, silty-----	3	3
	Sand, coarse, loamy-----	3	6
	Loam, silty, limey-----	7	13
	Clay, silty, dense-----	3	16
	Clay, loamy, silty, dense, green mottling-----	6	22

132-061-24ADA
USBR L-2

Altitude: 1301 feet Date drilled: 7/11/67

Glacial drift:			
	Loam, silty-----	1	1
	Clay, silty-----	2	3
	Sand, loamy, poorly sorted-----	2	5
	Loam, silty, dense, limey-----	2	7
	Sand, loamy-----	3	10
	Loam, silty, clayey, sand lenses-----	13	23
	Sand, coarse, loamy-----	1	24

132-061-26DCC
(Log from Beitz Pump Service)

Date drilled: 6/ /72

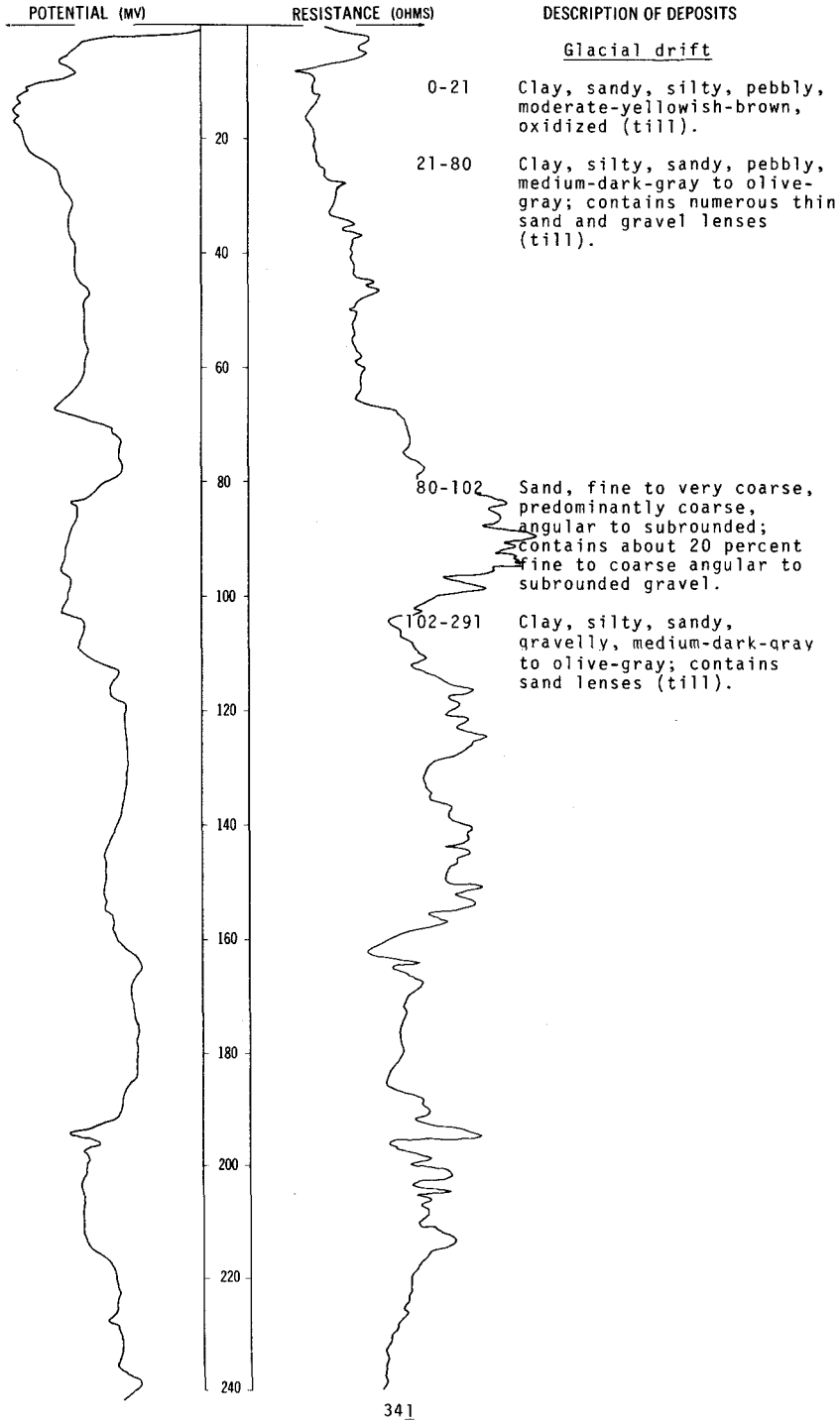
Glacial drift:			
	Dirt, black-----	2	2
	Clay, yellow-----	16	18
	Clay, blue-----	22	40
	Clay, sandy, blue-----	50	90
	Sand, dirty-----	3	93
	Sand, muddy-----	2	95

LOCATION: 132-061-29BBB1

DATE DRILLED: 10/03/75

ALTITUDE: 1416
(FT, MSL)

DEPTH: 300
(FT)



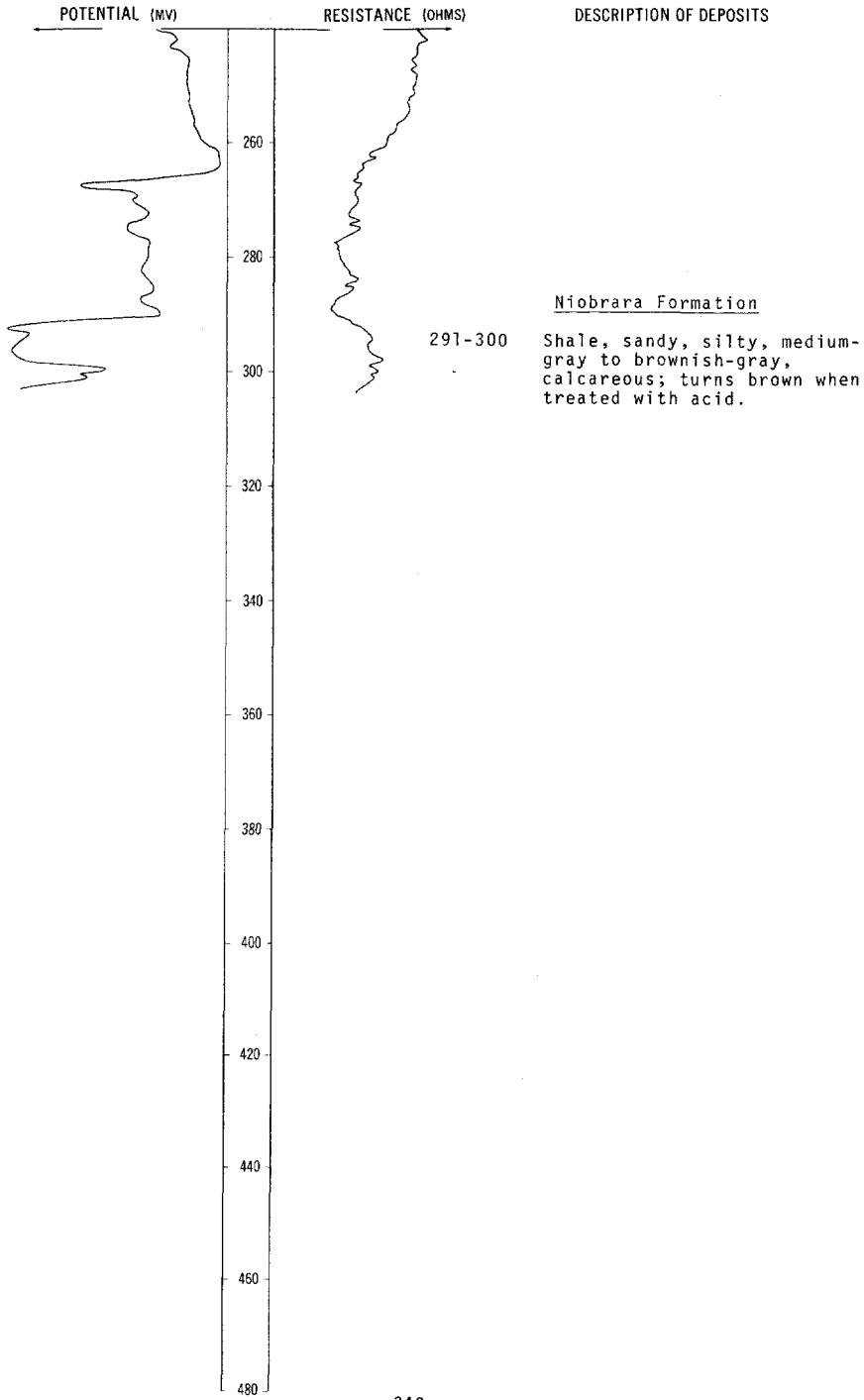
NDSWC 9464, Continued

LOCATION: 132-061-29BBB1

DATE DRILLED: 10/03/75

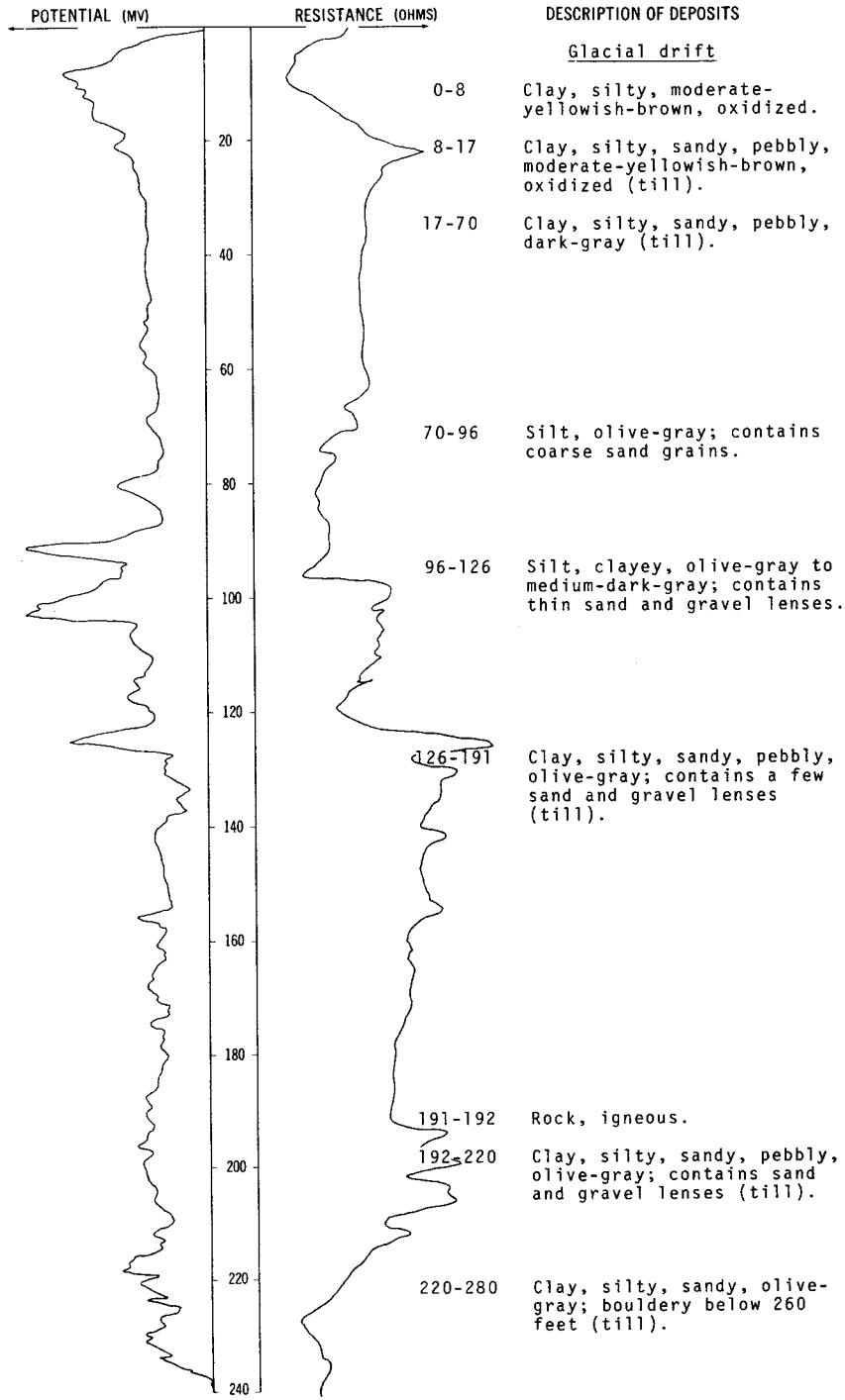
ALTITUDE: 1416
(FT, MSL)

DEPTH: 300
(FT)



LOCATION: 132-061-34CCC
 ALTITUDE: 1418
 (FT, MSL)

DATE DRILLED: 10/01/74
 DEPTH: 300
 (FT)



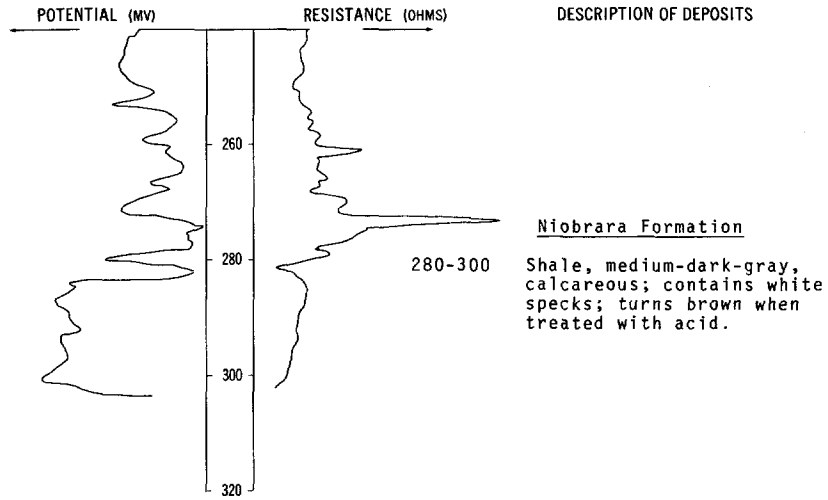
NDSWC 9136, Continued

LOCATION: 132-061-34CCC

DATE DRILLED: 10/01/74

ALTITUDE: 1418
(FT, MSL)

DEPTH: 300
(FT)



132-062-10DDD
(Log from Recker's Well Drilling)

Date drilled: 6/16/72

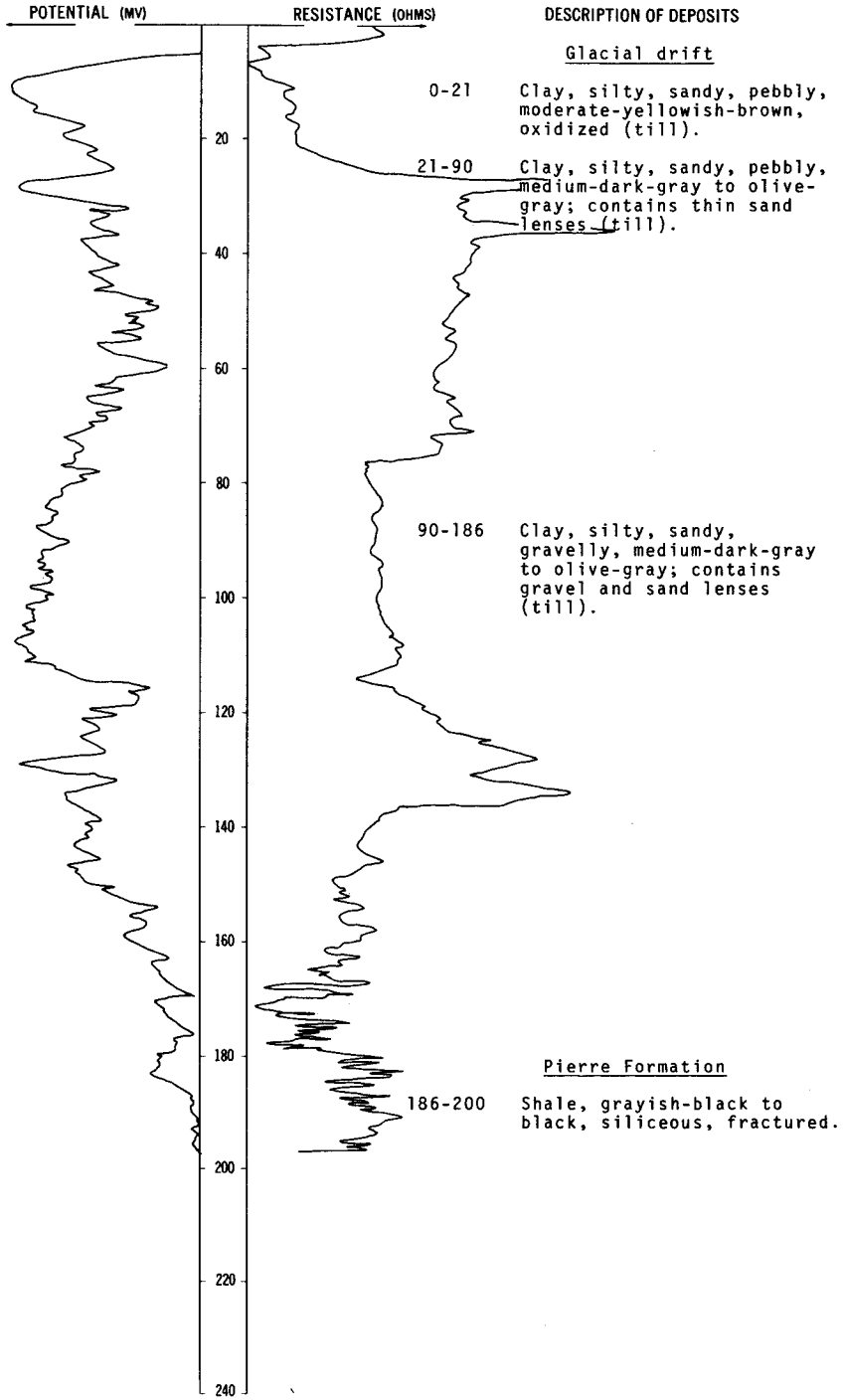
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Silt-----	2	2
	Clay, yellow-----	15	17
	Clay, brown-----	11	28
	Rock-----	1	29
	Gravel-----	2	31
	Clay, gray-----	65	96
	Sand, fine, gray-----	6	102
	Clay, blue-----	18	120
	Sand, fine, gray-----	17	137
	Clay, blue-----	7	144
	Sand, white-----	8	152

LOCATION: 132-062-19DDD

DATE DRILLED: 11/12/75

ALTITUDE: 1470
(FT, MSL)

DEPTH: 200
(FT)

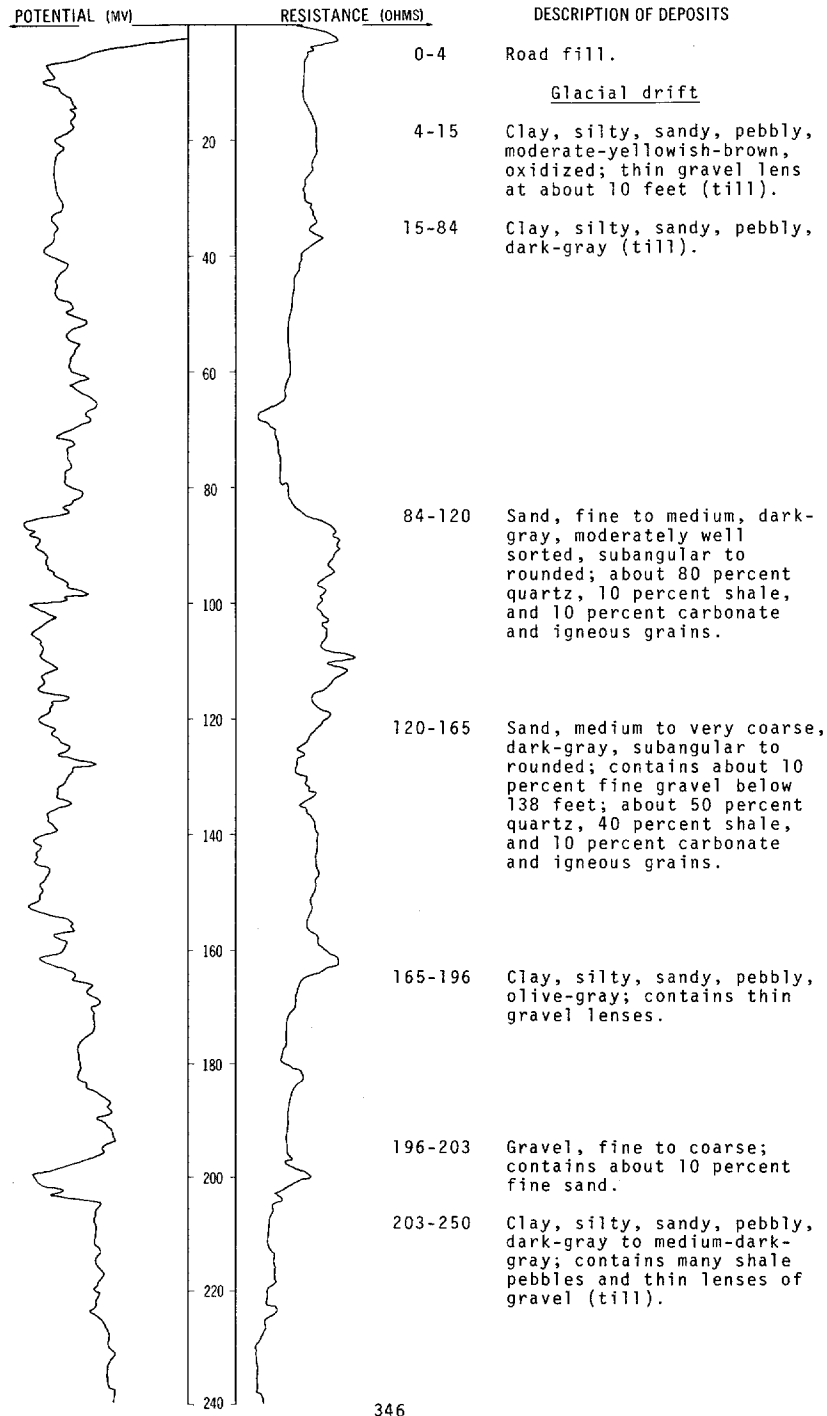


LOCATION: 132-062-23DDD

DATE DRILLED: 10/02/74

ALTITUDE: 1435
(FT, MSL)

DEPTH: 260
(FT)



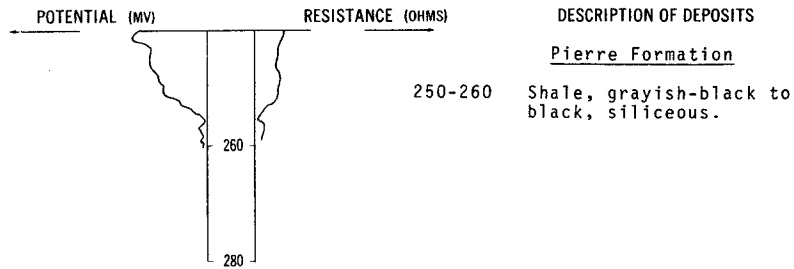
NDSWC 9141, Continued

LOCATION: 132-062-23DDD

DATE DRILLED: 10/02/74

ALTITUDE: 1435
(FT, MSL)

DEPTH: 260
(FT)



132-062-24DDD
NDSWC 9466

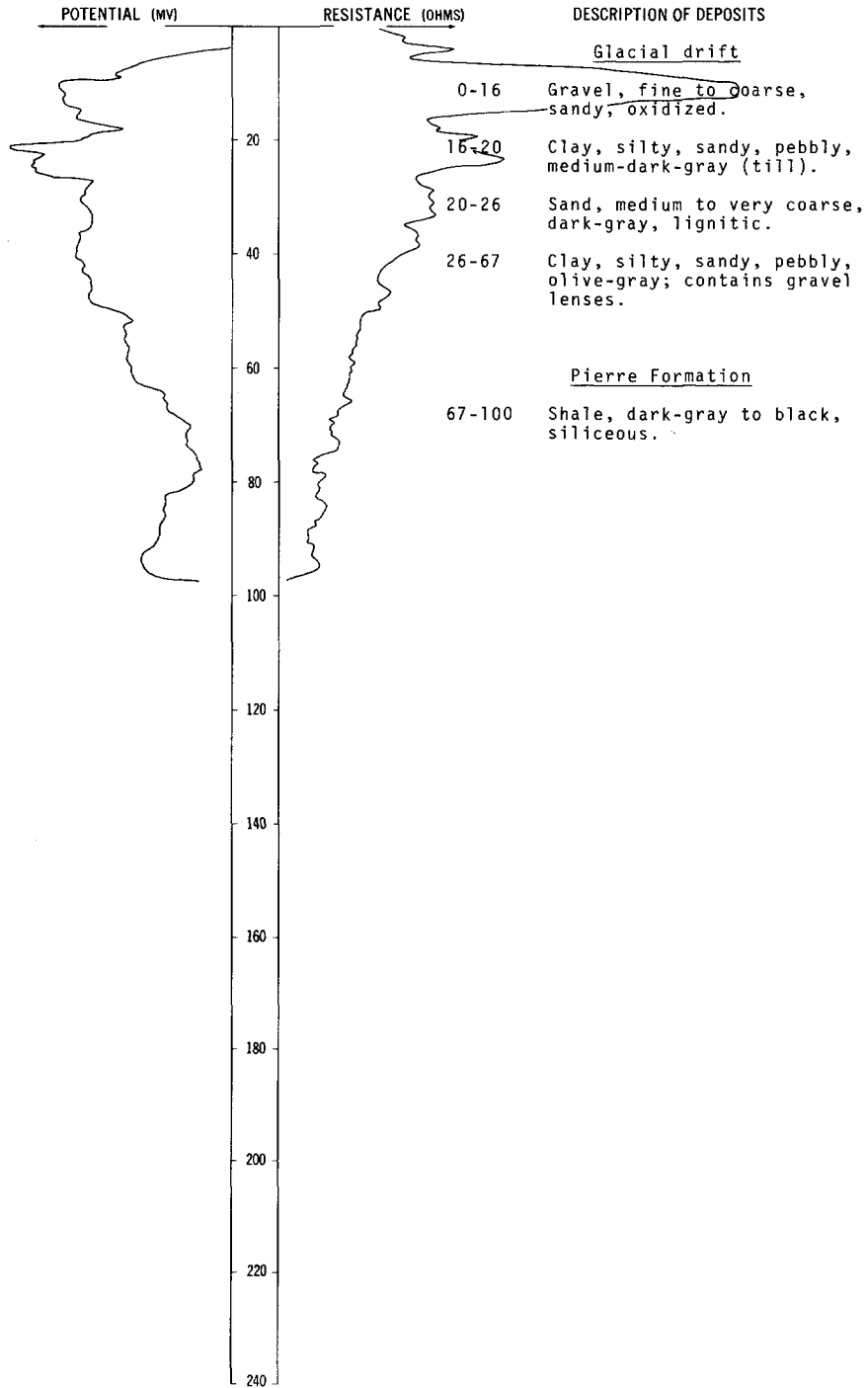
Altitude: 1420 feet

Date drilled: 10/06/75

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	19	19
	Sand, very fine to coarse, predominantly medium, subangular to rounded, oxidized-----	4	23
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	7	30
	Clay, silty, sandy, pebbly, medium-dark-gray to olive-gray (till)-----	10	40
	Sand, fine to coarse, predominantly medium to coarse, angular to subrounded-----	11	51
	Clay, sandy, silty, pebbly, medium-dark-gray to olive-gray; contains considerable gravel below 65 feet (till)-----	39	90
	Gravel, fine to coarse, and fine to very coarse sand; gravel composed of about 40 percent shale, 40 percent carbonates, and 20 percent quartz with some igneous and lignite pebbles-----	24	114
	Clay, silty, sandy, pebbly, medium-dark-gray to olive-gray; contains a few rocks (till)-----	169	283
Pierre Formation:			
	Shale, brownish-black to grayish-black, siliceous-----	17	300

LOCATION: 132-063-04BAA
 ALTITUDE: 1480
 (FT, MSL)

DATE DRILLED: 10/09/74
 DEPTH: 100
 (FT)

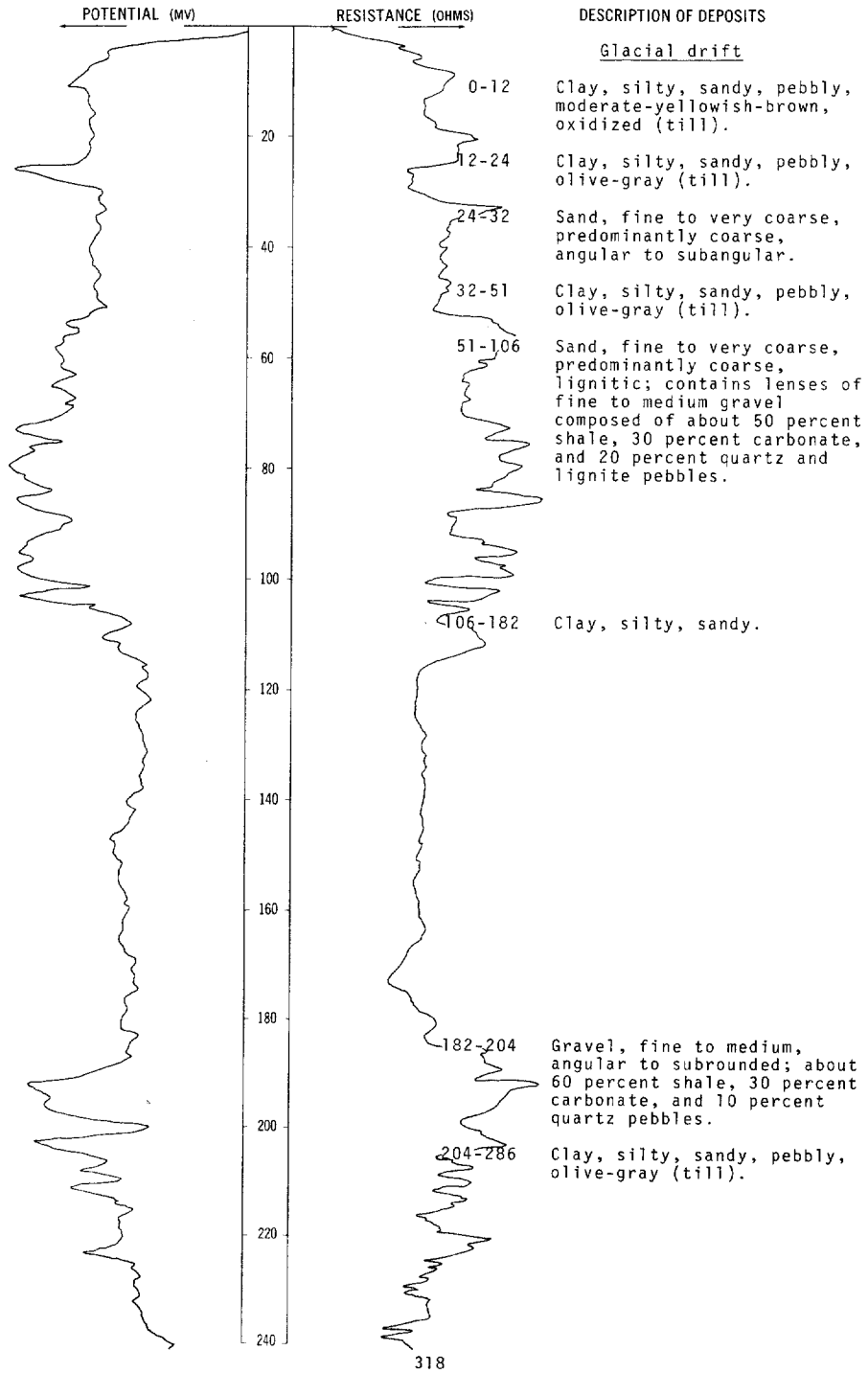


LOCATION: 131-062-24DDD1

DATE DRILLED: 9/30/75

ALTITUDE: 1410
(FT, MSL)

DEPTH: 300
(FT)



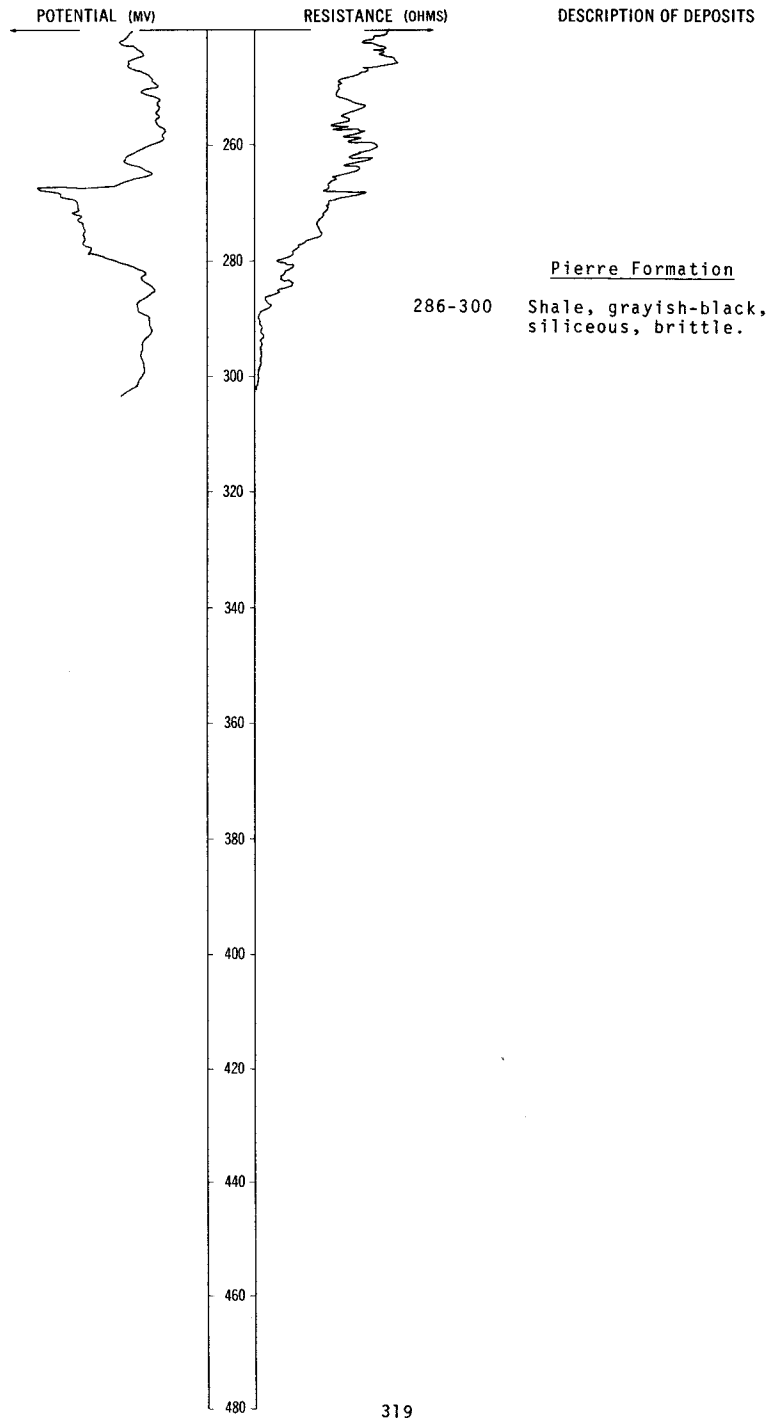
NDSWC 9458, Continued

LOCATION: 131-062-24DDD1

DATE DRILLED: 9/30/75

ALTITUDE: 1410
(FT, MSL)

DEPTH: 300
(FT)

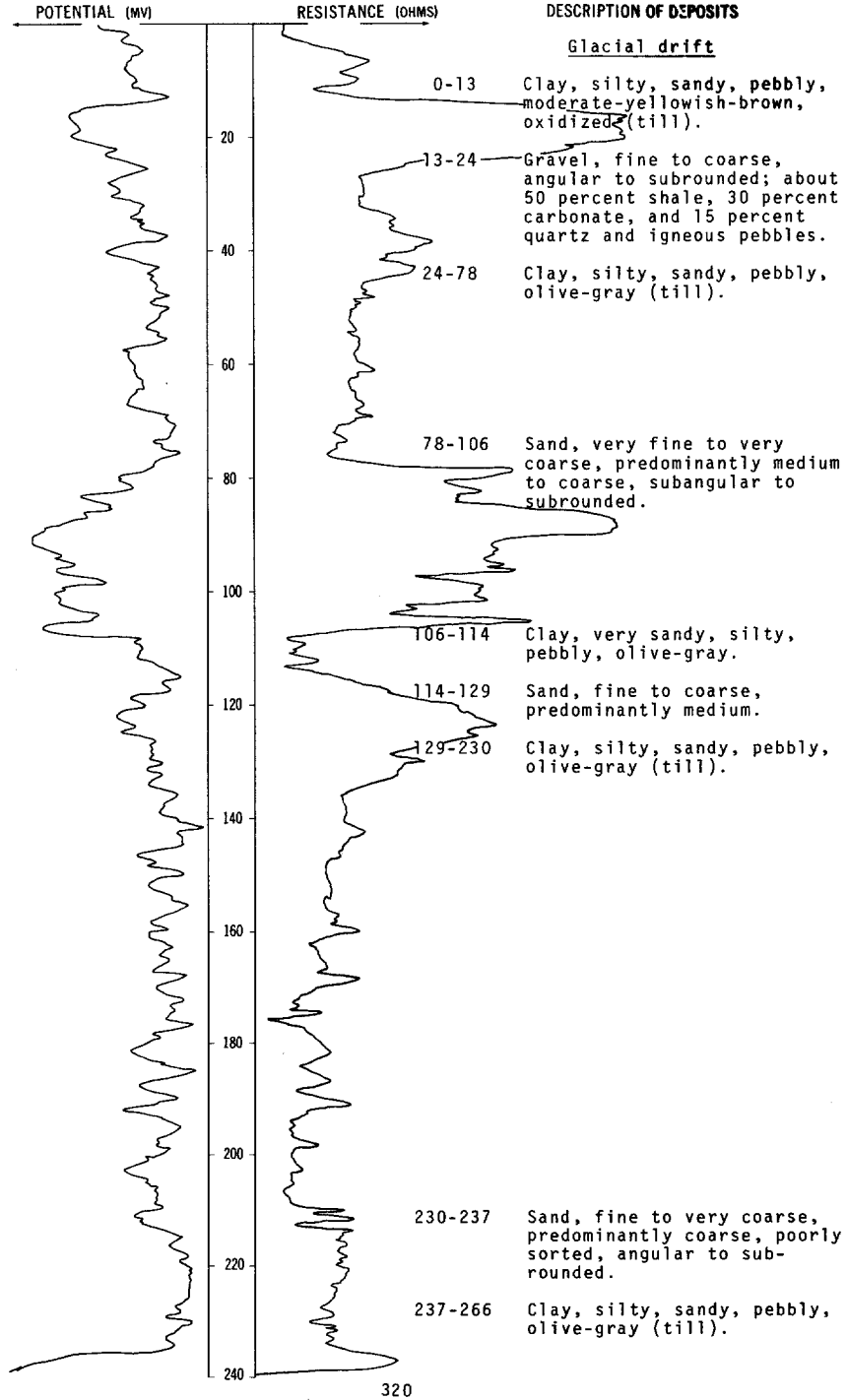


LOCATION: 131-062-26AAA1

DATE DRILLED: 9/30/75

ALTITUDE: 1406
(FT, MSL)

DEPTH: 280
(FT)



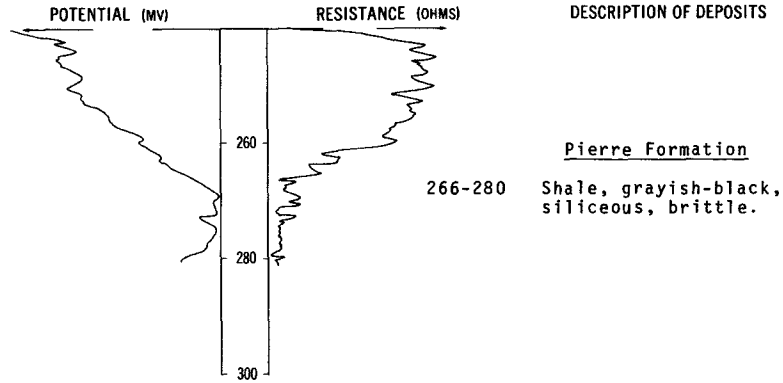
NDSWC 9457, Continued

LOCATION: 131-062-26AAA1

DATE DRILLED: 9/30/75

ALTITUDE: 1406
(FT, MSL)

DEPTH: 280
(FT)



Pierre Formation

266-280 Shale, grayish-black, siliceous, brittle.

131-063-07CCC
(Log from Albrecht Well Work)

Date drilled: 4/ /73

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, black-----	2	2
	Clay, silty, yellow-----	18	20
	Clay, sandy, blue-----	10	30
Pierre Formation:			
	Shale, black-----	15	45

131-063-16ADA
NDSWC 9139

Altitude: 1460 feet

Date drilled: 10/01/74

Glacial drift:			
	Topsoil, silty, sandy, black-----	1	1
	Silt, sandy, moderate-yellowish-brown, oxidized-----	4	5
	Sand, fine to coarse; about 20 percent fine to coarse gravel-----	7	12
	Clay, silty, sandy, pebbly, olive-gray-----	3	15
Pierre Formation:			
	Shale, grayish-black, siliceous, brittle-----	5	20

131-063-17AAA
NDSWC 9508

Altitude: 1500 feet

Date drilled: 11/13/75

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, very sandy, silty, pebbly, moderate-yellowish-brown, oxidized (till)-----	15	15
	Clay, sandy, silty, pebbly, medium-dark-gray to olive-gray; gravelly from 25 to 38 feet-----	23	38
Pierre Formation:			
	Shale, black to grayish-black, hard-----	22	60

131-063-18AAA
(Log from Albrecht Well Work)

Date drilled: 4/13/73

Glacial drift:			
	Topsoil, black-----	3	3
	Clay, silty, yellow-----	17	20
	Clay, blue, stony-----	13	33
	Sand, stony, dark-----	3	36

131-064-01DDD
(Log from Albrecht Well Work)

Date drilled: 4/26/73

Glacial drift:			
	Topsoil, black-----	2	2
	Clay, silty, yellow-----	15	17
	Clay, sandy, blue-----	1	18
	Gravel, black sand, hard-----	6	24
Pierre Formation:			
	Shale-----	--	24

131-064-02CCC
(Log from Albrecht Well Work)

Date drilled: 5/01/73

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, black-----	2	2
	Clay, silty, yellow-----	6	8
	Gravel, sandy, shale chips-----	3	11
Pierre Formation:			
	Shale, black, hard-----	2	13

131-064-10CDD
(Log from Albrecht Well Work)

Date drilled: 4/18/73

Glacial drift:			
	Topsoil, black-----	3	3
	Clay, silty, gray-----	7	10
Pierre Formation:			
	Shale, black, hard-----	6	16

131-064-15BAC
(Log from Albrecht Well Work)

Date drilled: 4/18/73

Glacial drift:			
	Topsoil, black-----	3	3
	Clay, silty, gray-----	7	10
Pierre Formation:			
	Shale-----	5	15

131-064-15DAA
NDSWC 9156

Altitude: 1540 feet	Date drilled: 10/09/74		
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, sandy, moderate-brown-----	1	1
	Silt, sandy, yellowish-brown, oxidized; gravel lenses-----	3	4
	Clay, silty, sandy, pebbly, dark- yellowish-brown (till)-----	3	7
Pierre Formation:			
	Shale, dark-gray, siliceous, fractured-----	33	40

131-065-06CCB
(Log from Jacob Thurn)

	Date drilled: 11/08/72		
Glacial drift:			
	Dirt, black-----	3	3
	Clay, yellow-----	17	20
	Clay, blue-----	14	34
	Sand, gravelly, rocky-----	2	36

131-065-14BBB
NDSWC 9164

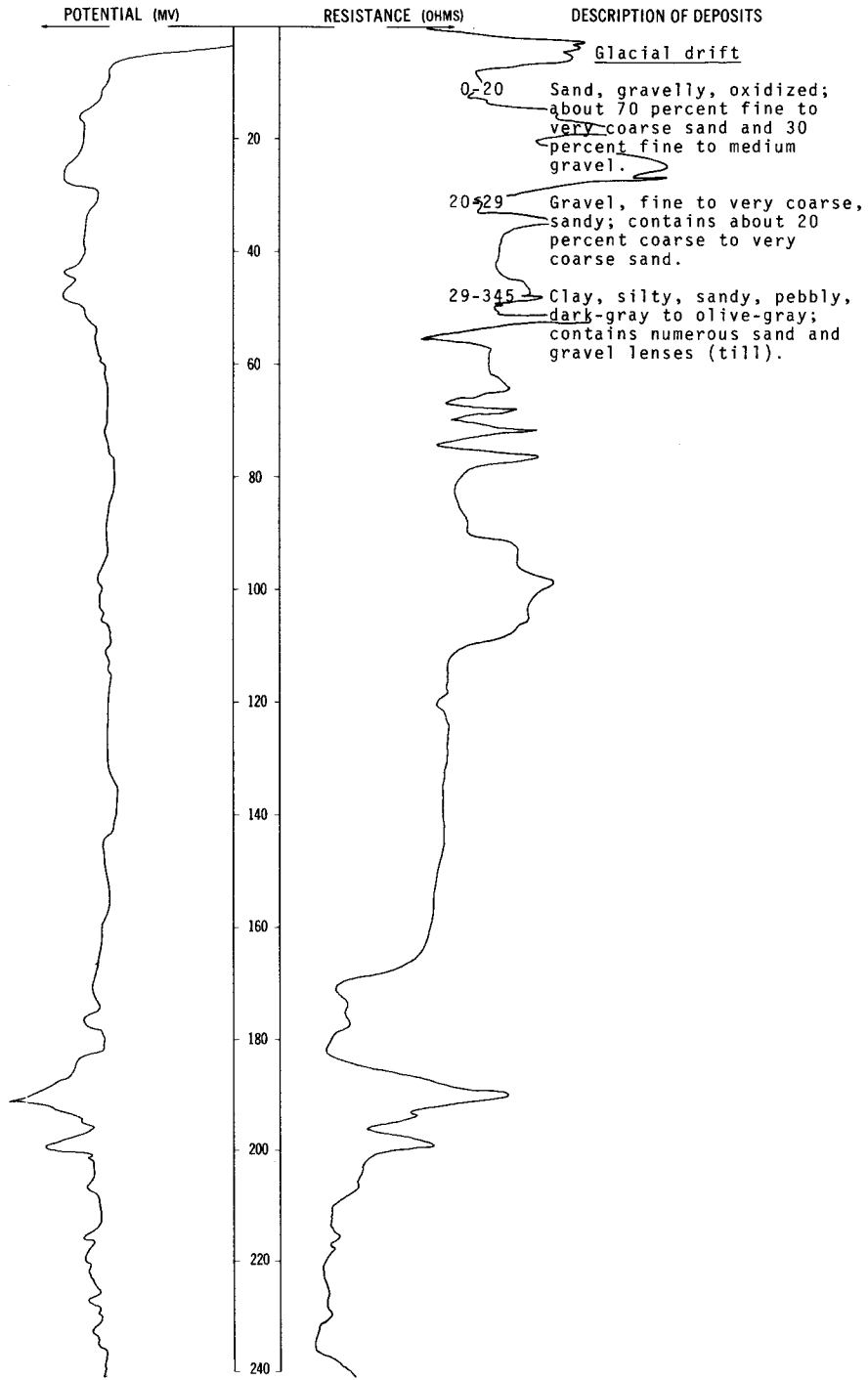
Altitude: 1697 feet	Date drilled: 10/11/74		
Glacial drift:			
	Gravel, sandy, oxidized; about 80 percent fine to medium gravel and 20 percent coarse sand-----	9	9
	Clay, silty, sandy, pebbly, dark- gray (till)-----	6	15
	Sand, gravelly; about 70 percent fine to very coarse sand and 30 percent fine to medium gravel-----	5	20
	Clay, silty, sandy, pebbly, dark- gray; contains sand and gravel lenses (till)-----	36	56
Pierre Formation:			
	Shale, grayish-black, siliceous, brittle-----	24	80

LOCATION: 131-066-27BBB

DATE DRILLED: 10/10/74

ALTITUDE: 1992
(FT, MSL)

DEPTH: 360
(FT)



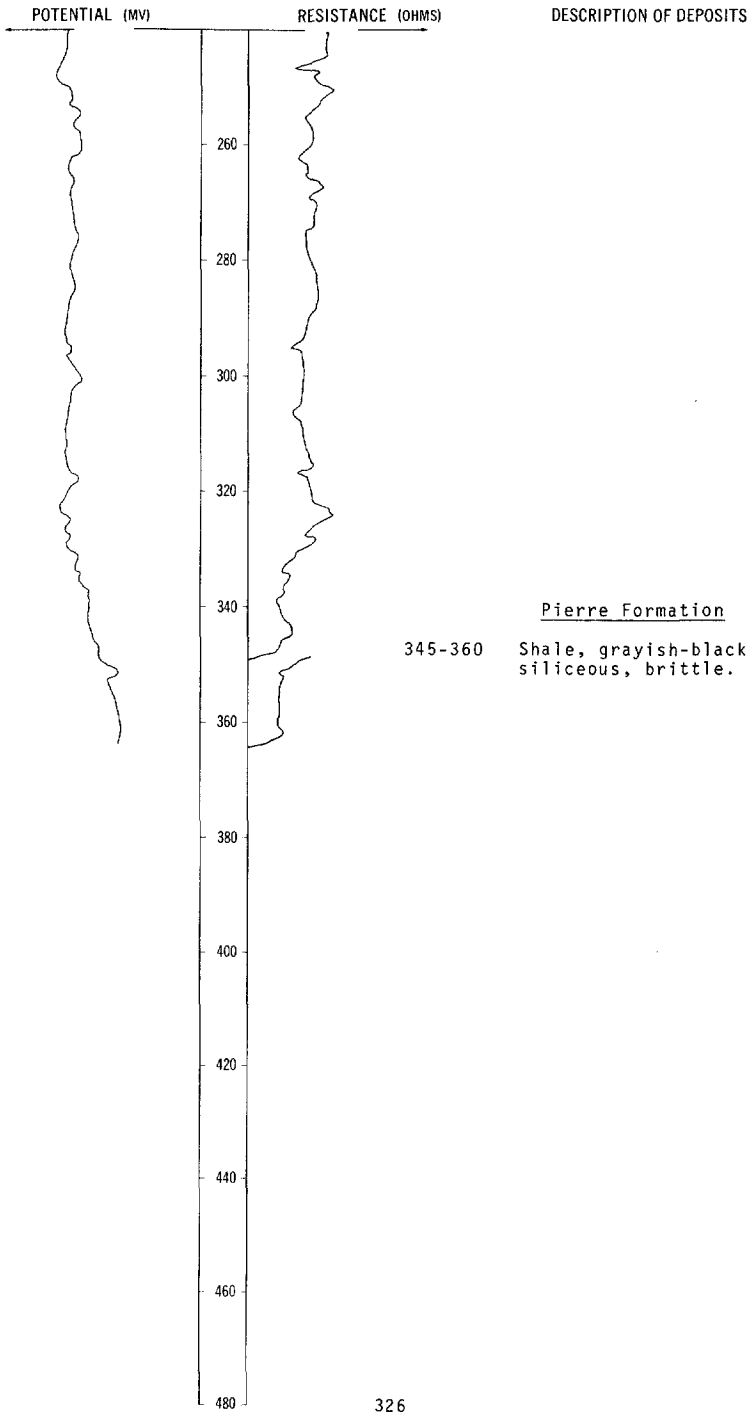
NDSWC 9163, Continued

LOCATION: 131-066-27BBB

DATE DRILLED: 10/10/74

ALTITUDE: 1992
(FT, MSL)

DEPTH: 360
(FT)

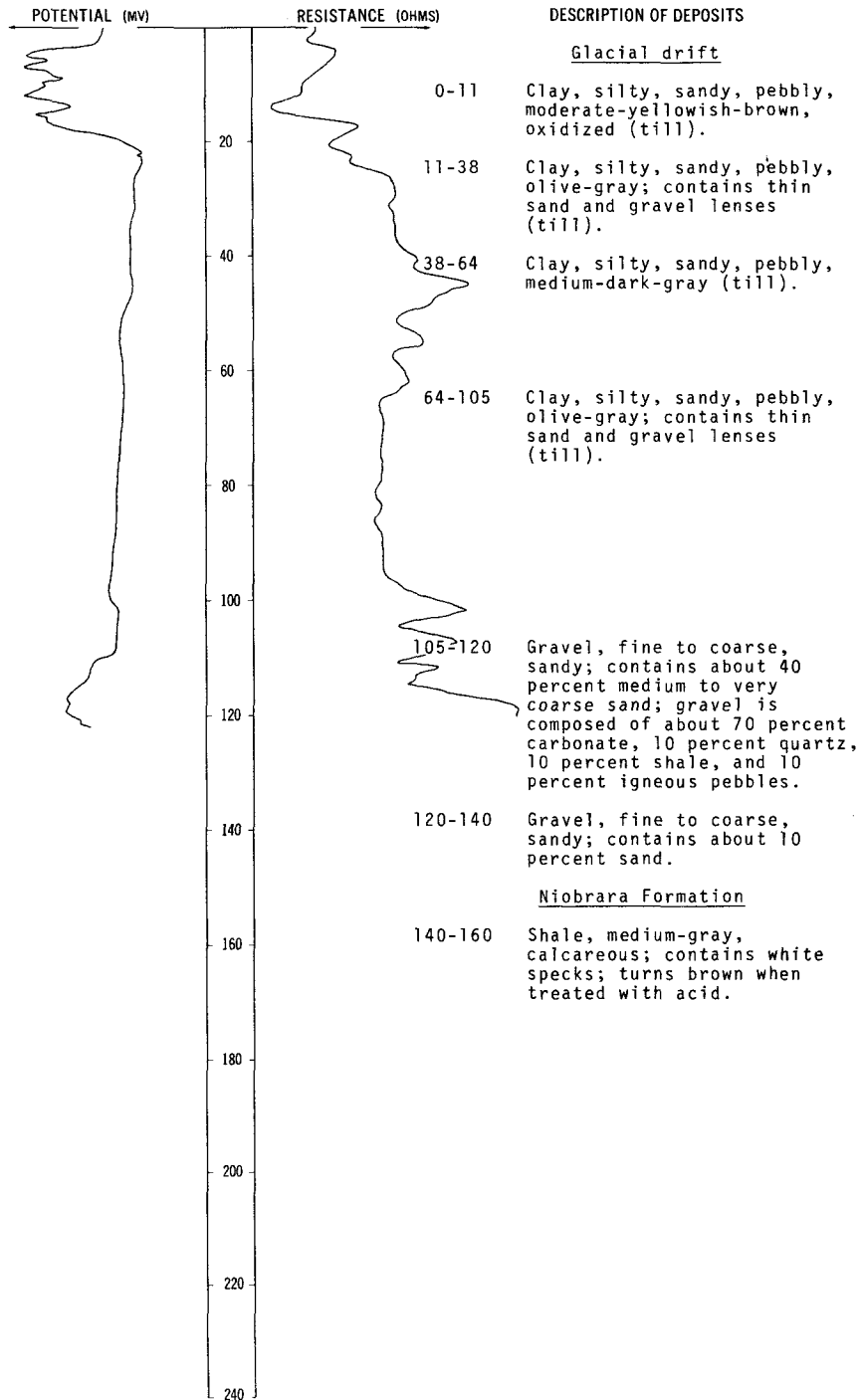


LOCATION: 132-059-03CCC

DATE DRILLED: 10/03/74

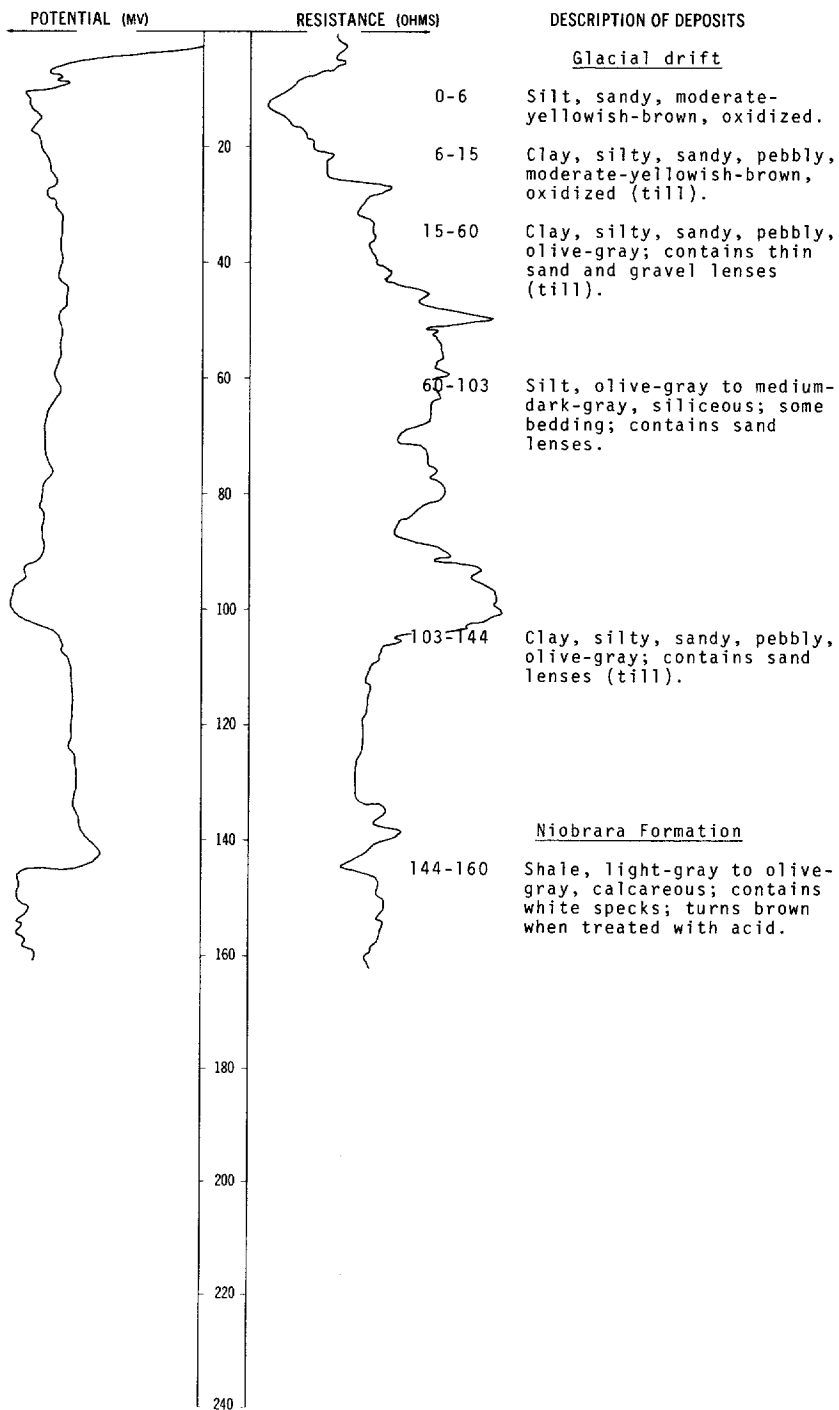
ALTITUDE: 1327
(FT, MSL)

DEPTH: 160
(FT)



LOCATION: 132-059-12888
 ALTITUDE: 1330
 (FT, MSL)

DATE DRILLED: 10/04/74
 DEPTH: 160
 (FT)



132-059-21DCD
(Log from Falk Bros. Well Drilling)

Date drilled: 11/03/72

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, yellow-----	5	5
	Sand-----	65	70

132-059-26DCC
(Log from Falk Bros. Well Drilling)

Date drilled: 5/ /72

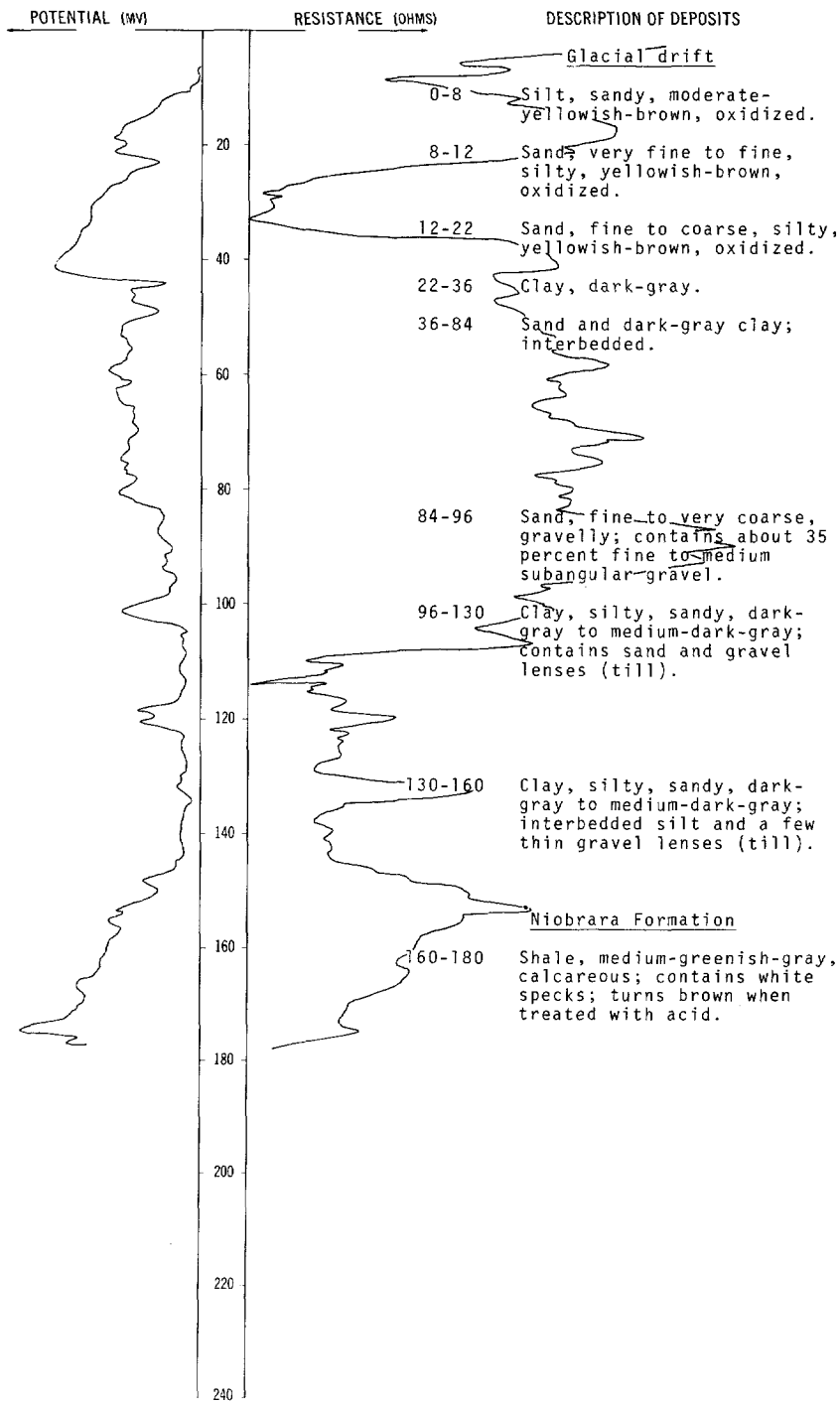
Glacial drift:			
	Clay, yellow-----	14	14
	Gravel-----	14	28
	Shale-----	74	102
	Sand-----	1	103
	Shale-----	46	149
	Sand-----	9	158

LOCATION: 132-060-05BBB

DATE DRILLED: 10/08/74

ALTITUDE: 1345
(FT, MSL)

DEPTH: 180
(FT)



132-060-12AAA
NDSWC 9144

Altitude: 1385 feet

Date drilled: 10/03/74

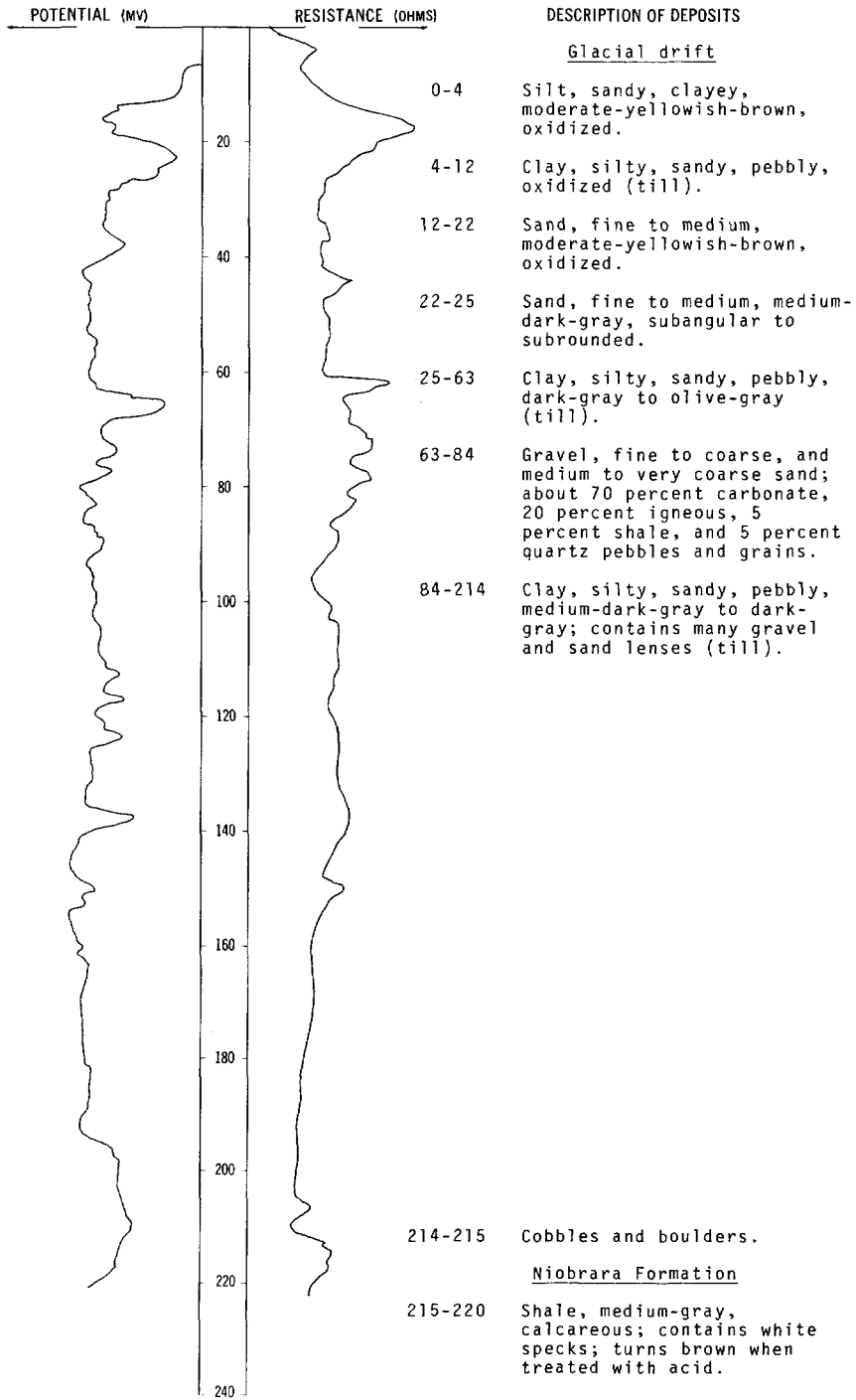
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty-----	1	1
	Clay, silty, sandy, pebbly, yellowish-brown, oxidized (till)-----	21	22
	Clay, silty, sandy, pebbly, dark-gray; contains gravel lenses (till)-----	20	42
	Sand, medium to very coarse, dark-gray, clean-----	18	60
	Gravel, cobbles, and silt lenses-----	5	65
	Clay, silty, sandy, pebbly, olive-gray (till)-----	9	74
	Sand, coarse, and fine to medium gravel; contains clay lenses-----	8	82
	Clay, silty, sandy, pebbly, dark-gray, dense; contains sand lenses (till)-----	138	220
	Gravel; predominantly shale pebbles-----	7	227
Niobrara Formation:			
	Shale, medium-gray, calcareous; with a green tint; contains white specks-----	13	240

LOCATION: 132-060-16AAA

DATE DRILLED: 10/03/74

ALTITUDE: 1380
(FT, MSL)

DEPTH: 220
(FT)



132-060-19BCC
USBR L-1

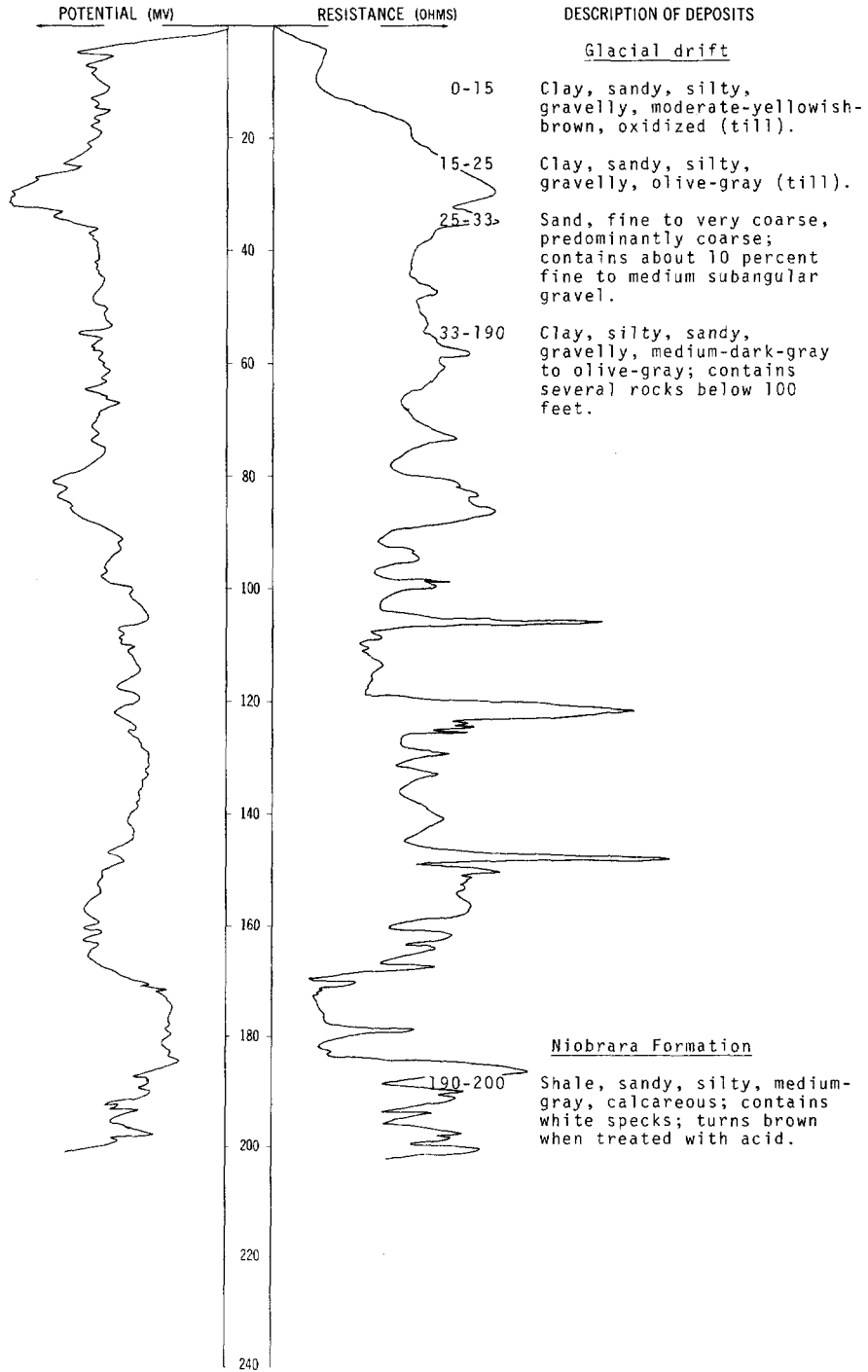
Altitude: 1298 feet

Date drilled: 7/11/67

<u>Geologic</u> <u>source</u>	<u>Material</u>	<u>Thickness</u> <u>(feet)</u>	<u>Depth</u> <u>(feet)</u>
Glacial drift:			
	Clay-----	11	11
	Clay, silty-----	2	13
	Loam, fine, sandy-----	4	17
	Sand, coarse, loamy-----	4	21
	Loam, silty-----	3	24

LOCATION: 132-060-24AAA
 ALTITUDE: 1375
 (FT, MSL)

DATE DRILLED: 10/03/75
 DEPTH: 200
 (FT)



132-060-28BDB
(Log from Traut Wells, Inc.)

Date drilled: 10/01/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Clay, brown-----	30	30
	Sand, brown-----	5	35
	Clay, gray-----	33	68
	Sand, gray-----	2	70
	Clay, gray-----	50	120

132-060-31DBB
(Log from Beitz Pump Service)

Date drilled: 4/16/73

Glacial drift:			
	Clay, yellow-----	26	26
	Sand-----	28	54
	Rock, crushed-----	1	55
	Clay, sandy, blue-----	5	60
	Clay, gravelly, blue-----	27	87
	Clay, sandy, fine, blue-----	6	93

132-061-09DCC
(Log from Falk Bros. Well Drilling)

Date drilled: 11/16/72

Glacial drift:			
	Clay, yellow-----	12	12
	Shale-----	30	42
	Sand-----	27	69

132-061-11ADA
USBR L-7

Altitude: 1313 feet

Date drilled: 7/17/70

Glacial drift:			
	Loam, silty-----	3	3
	Clay, silty-----	7	10
	Loam, sandy-----	4	14
	Sand, loamy-----	4	18
	Silt-----	14	32
	Sand, loamy-----	8	40

132-061-11DDD
USBR L-6

Altitude: 1300 feet

Date drilled: 7/17/70

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Loam, silty-----	2	2
	Loam, silty, dense-----	3	5
	Sand, coarse, and gravel-----	15	20

132-061-14BBB
USBR L-5

Altitude: 1318 feet

Date drilled: 7/17/67

Glacial drift:			
	Loam, silty-----	6	6
	Sand, very fine, well-sorted-----	15	21
	Sand, coarse, well-sorted-----	3	24

132-061-14DDC
USBR L-4

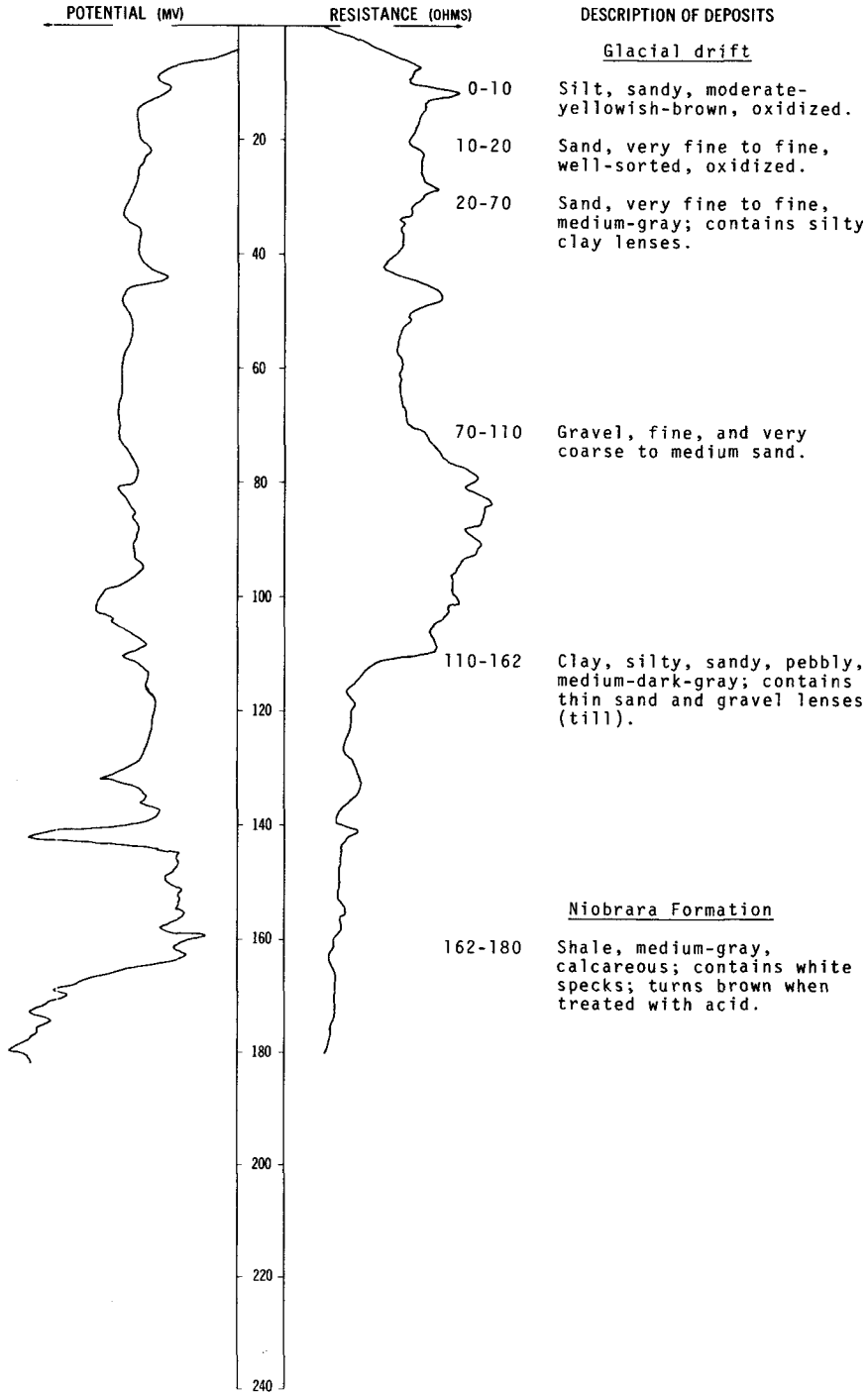
Altitude: 1326 feet

Date drilled: 7/13/70

Glacial drift:			
	Loam, silty-----	7	7
	Loam, fine, sandy-----	4	11
	Loam, coarse, sandy, with gravel-----	9	20
	Silt-----	5	25

LOCATION: 132-061-15DAA
 ALTITUDE: 1308
 (FT, MSL)

DATE DRILLED: 10/02/74
 DEPTH: 180
 (FT)

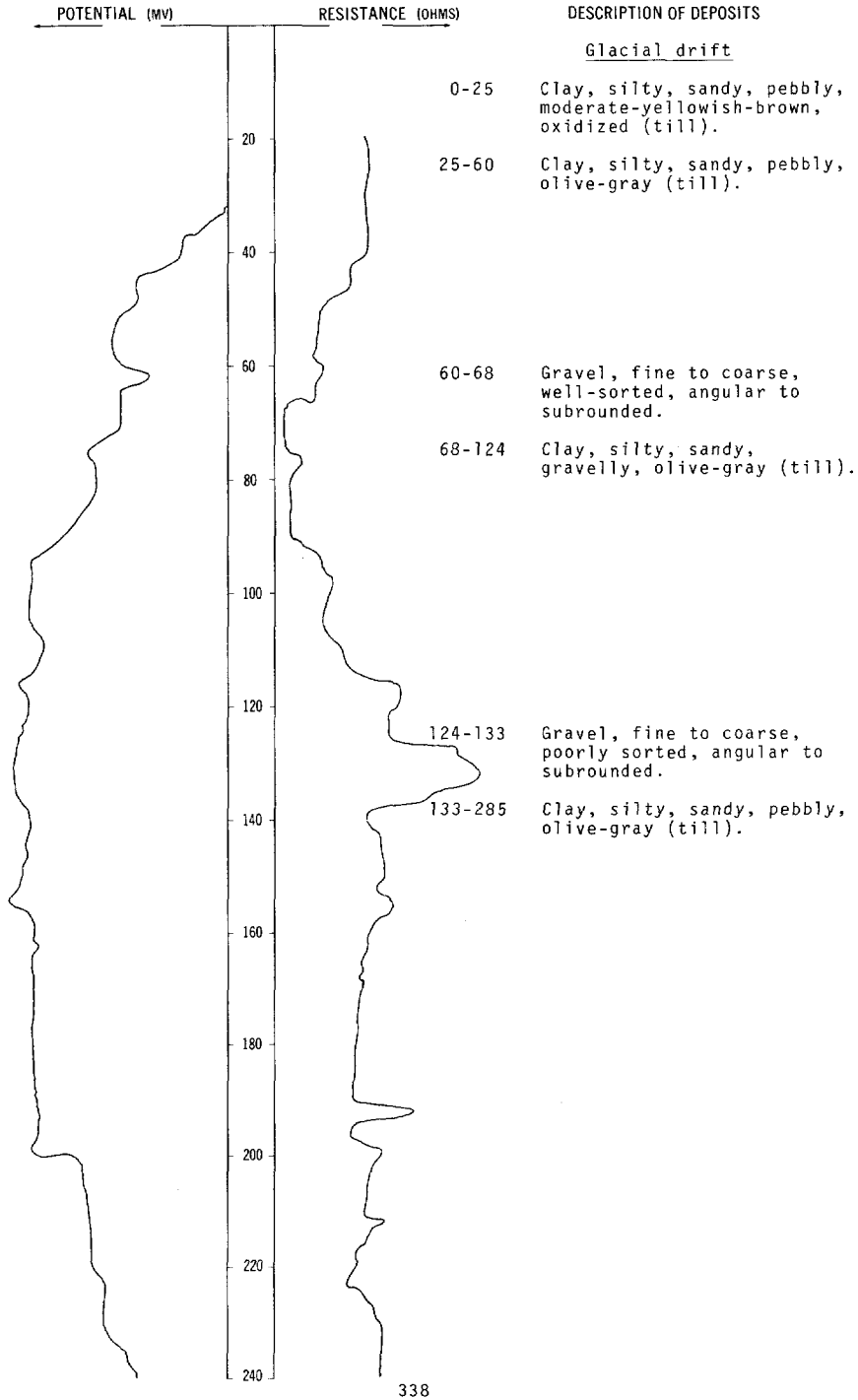


LOCATION: 132-061-20DDD

DATE DRILLED: 10/03/75

ALTITUDE: 1417
(FT, MSL)

DEPTH: 295
(FT)

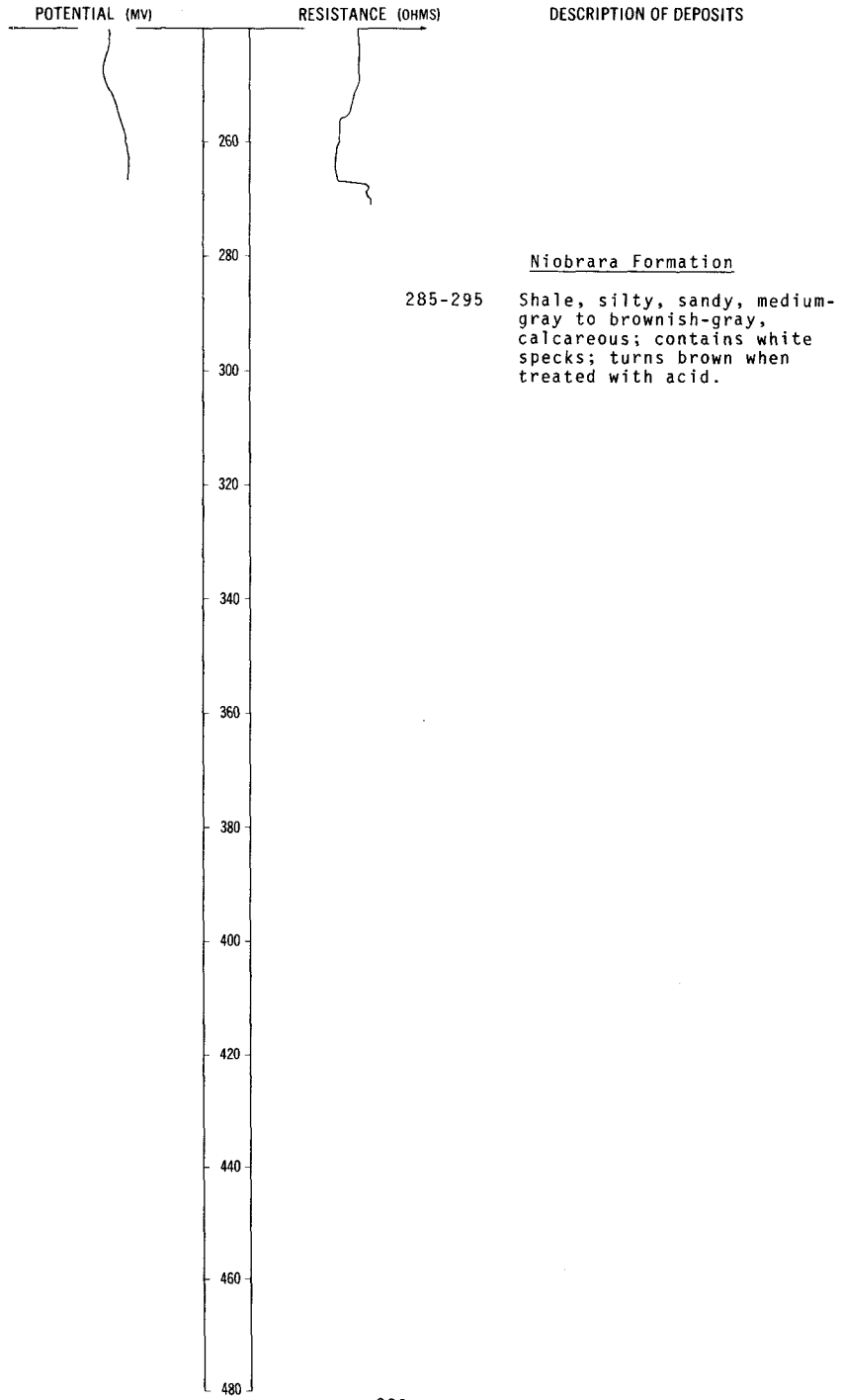


LOCATION: 132-061-20DDD

DATE DRILLED: 10/03/75

ALTITUDE: 1417
(FT, MSL)

DEPTH: 295
(FT)



132-061-23ADA
USBR L-3

Altitude:	1310 feet	Date drilled:	7/12/67
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Loam, silty-----	3	3
	Sand, coarse, loamy-----	3	6
	Loam, silty, limey-----	7	13
	Clay, silty, dense-----	3	16
	Clay, loamy, silty, dense, green mottling-----	6	22

132-061-24ADA
USBR L-2

Altitude:	1301 feet	Date drilled:	7/11/67
Glacial drift:			
	Loam, silty-----	1	1
	Clay, silty-----	2	3
	Sand, loamy, poorly sorted-----	2	5
	Loam, silty, dense, limey-----	2	7
	Sand, loamy-----	3	10
	Loam, silty, clayey, sand lenses-----	13	23
	Sand, coarse, loamy-----	1	24

132-061-26DCC
(Log from Beitz Pump Service)

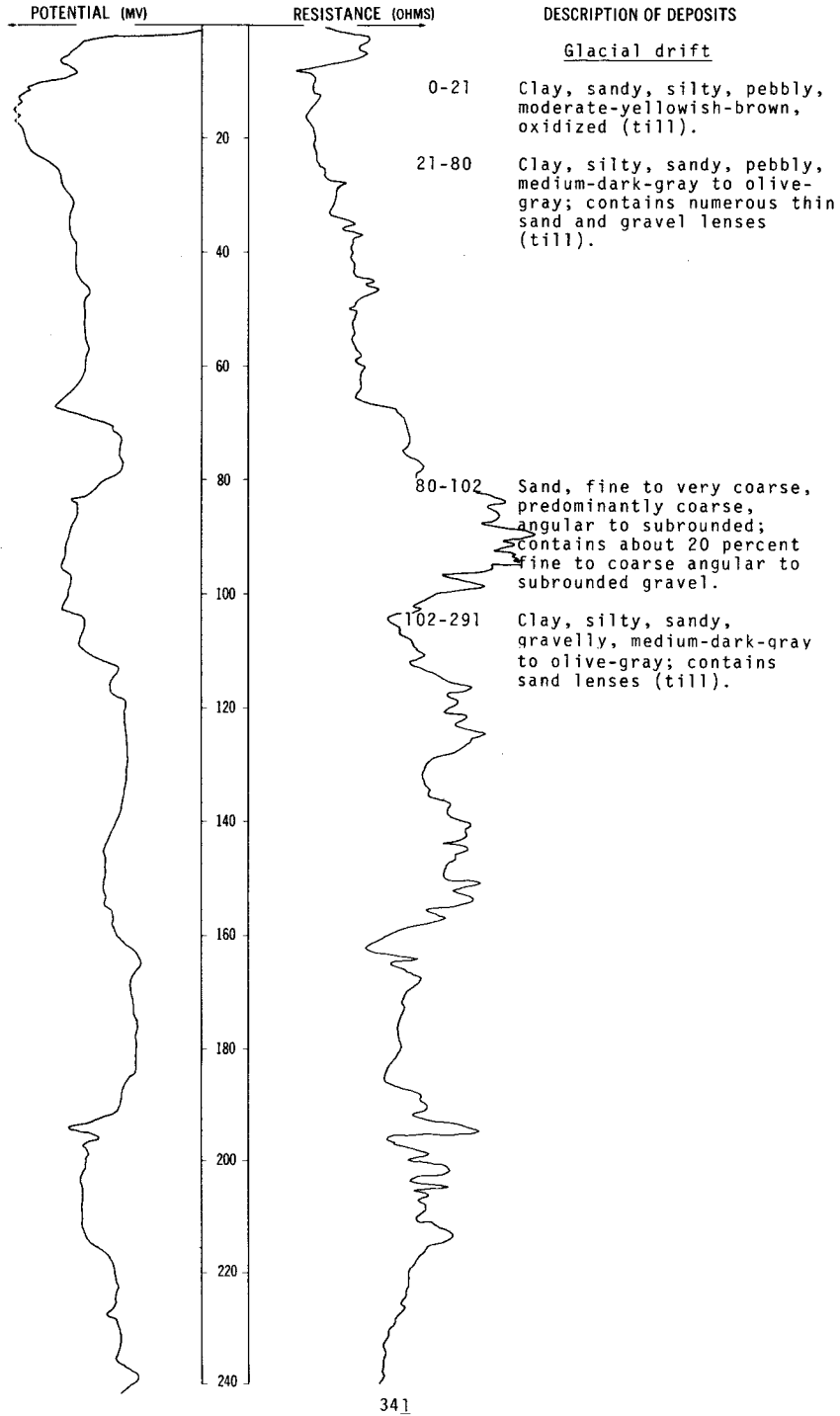
		Date drilled:	6/ /72
Glacial drift:			
	Dirt, black-----	2	2
	Clay, yellow-----	16	18
	Clay, blue-----	22	40
	Clay, sandy, blue-----	50	90
	Sand, dirty-----	3	93
	Sand, muddy-----	2	95

LOCATION: 132-061-29BBB1

DATE DRILLED: 10/03/75

ALTITUDE: 1416
(FT, MSL)

DEPTH: 300
(FT)



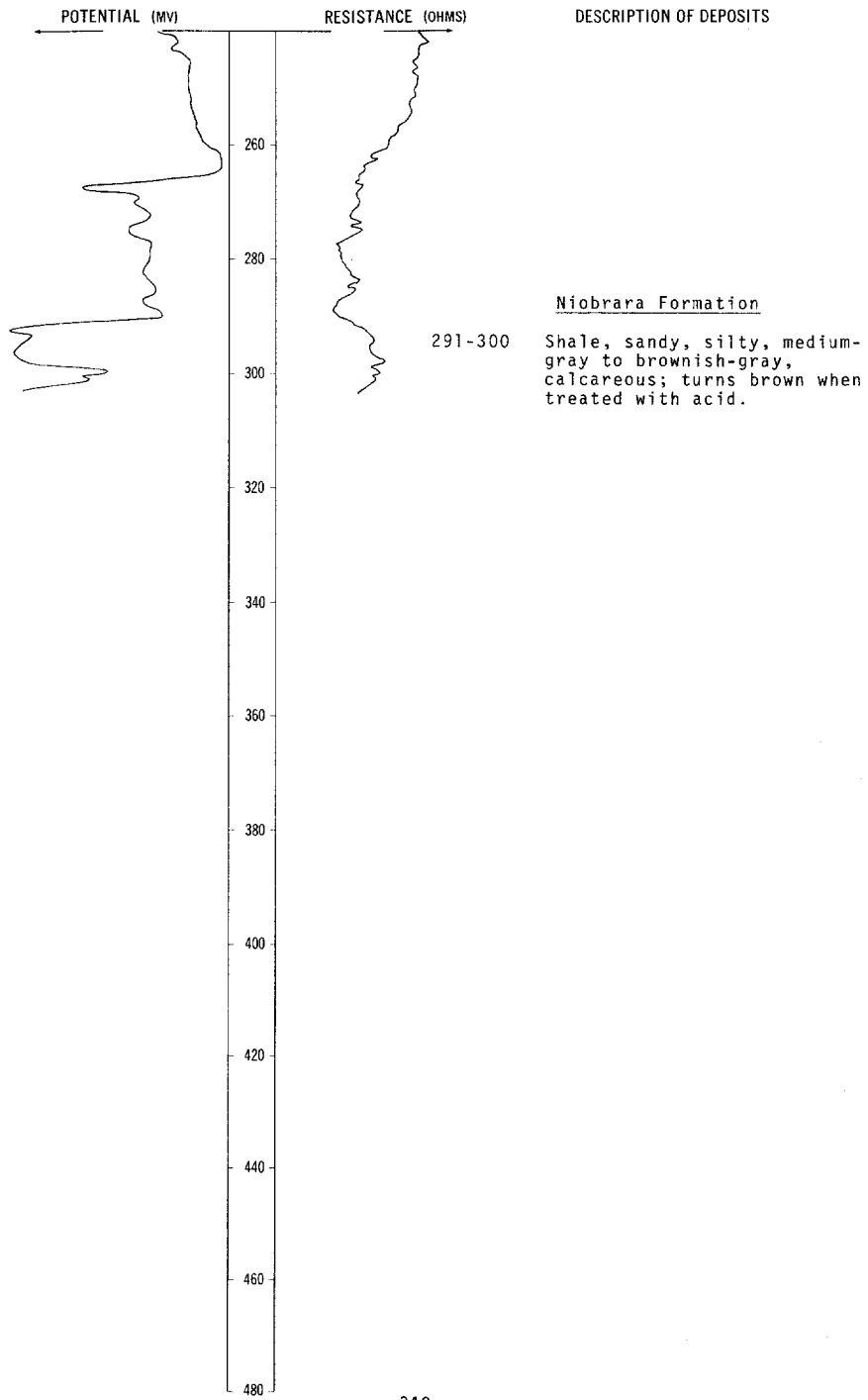
NDSWC 9464, Continued

LOCATION: 132-061-29BBB1

DATE DRILLED: 10/03/75

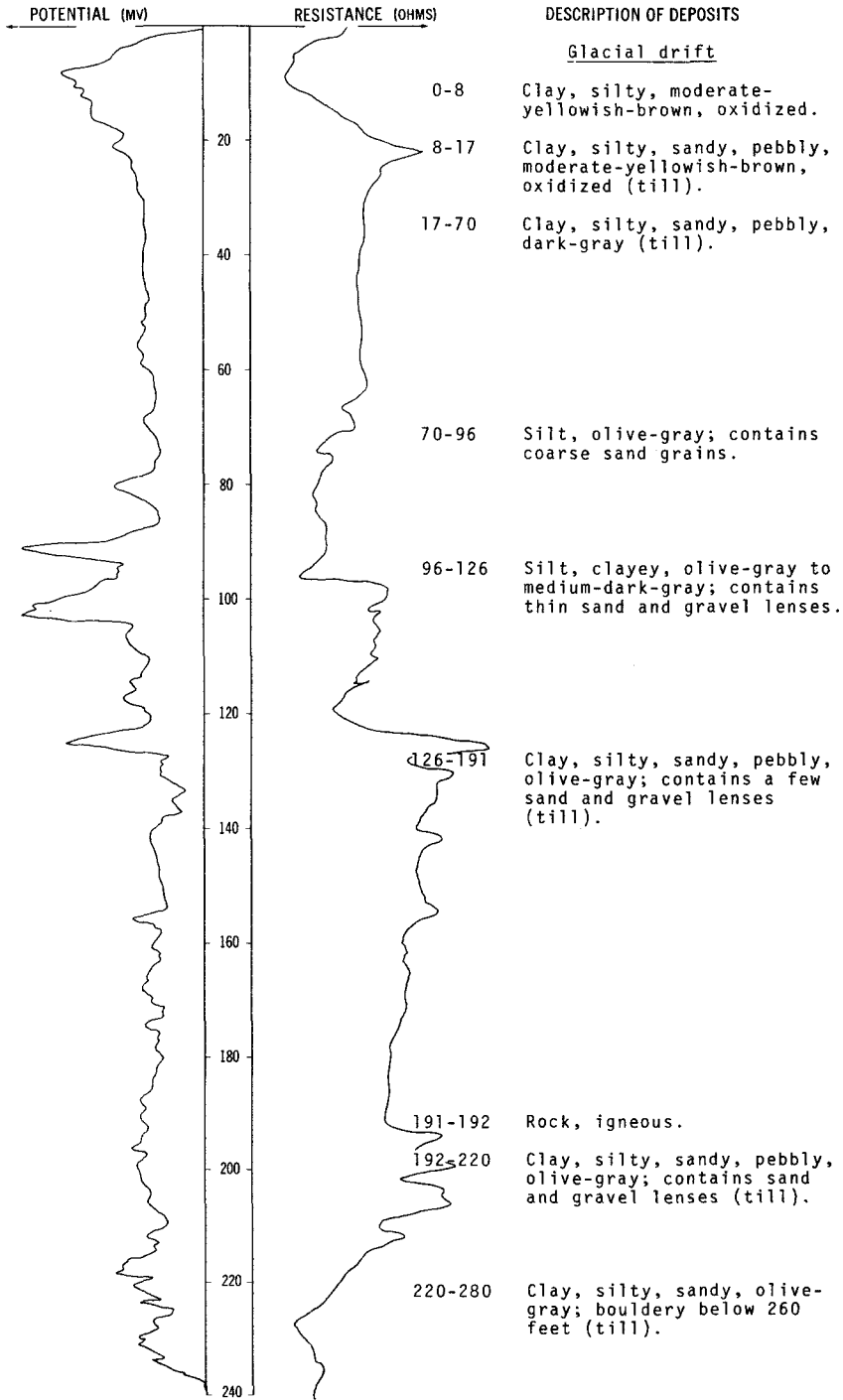
ALTITUDE: 1416
(FT, MSL)

DEPTH: 300
(FT)



LOCATION: 132-061-34CCC
 ALTITUDE: 1418
 (FT, MSL)

DATE DRILLED: 10/01/74
 DEPTH: 300
 (FT)



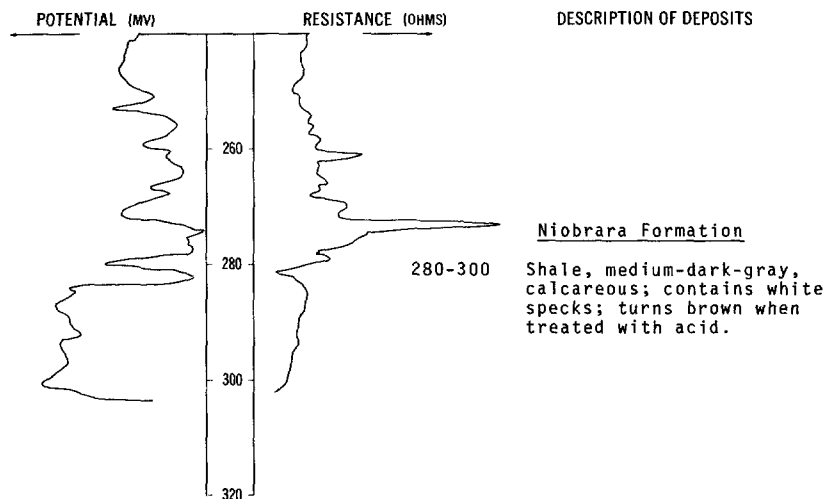
NDSWC 9136, Continued

LOCATION: 132-061-34CCC

DATE DRILLED: 10/01/74

ALTITUDE: 1418
(FT, MSL)

DEPTH: 300
(FT)



132-062-10DDD
(Log from Recker's Well Drilling)

Date drilled: 6/16/72

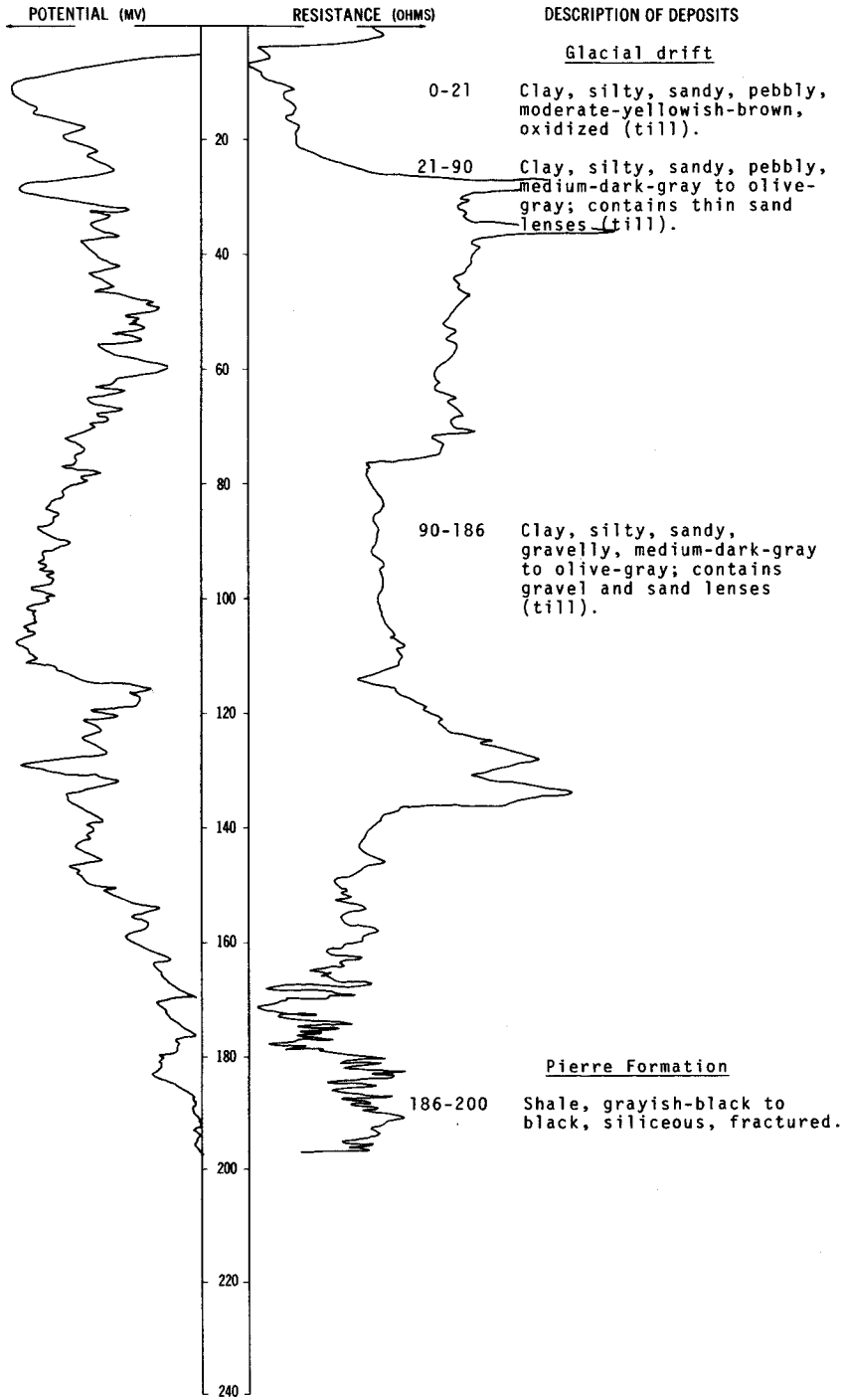
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Silt-----	2	2
	Clay, yellow-----	15	17
	Clay, brown-----	11	28
	Rock-----	1	29
	Gravel-----	2	31
	Clay, gray-----	65	96
	Sand, fine, gray-----	6	102
	Clay, blue-----	18	120
	Sand, fine, gray-----	17	137
	Clay, blue-----	7	144
	Sand, white-----	8	152

LOCATION: 132-062-19DDD

DATE DRILLED: 11/12/75

ALTITUDE: 1470
(FT, MSL)

DEPTH: 200
(FT)

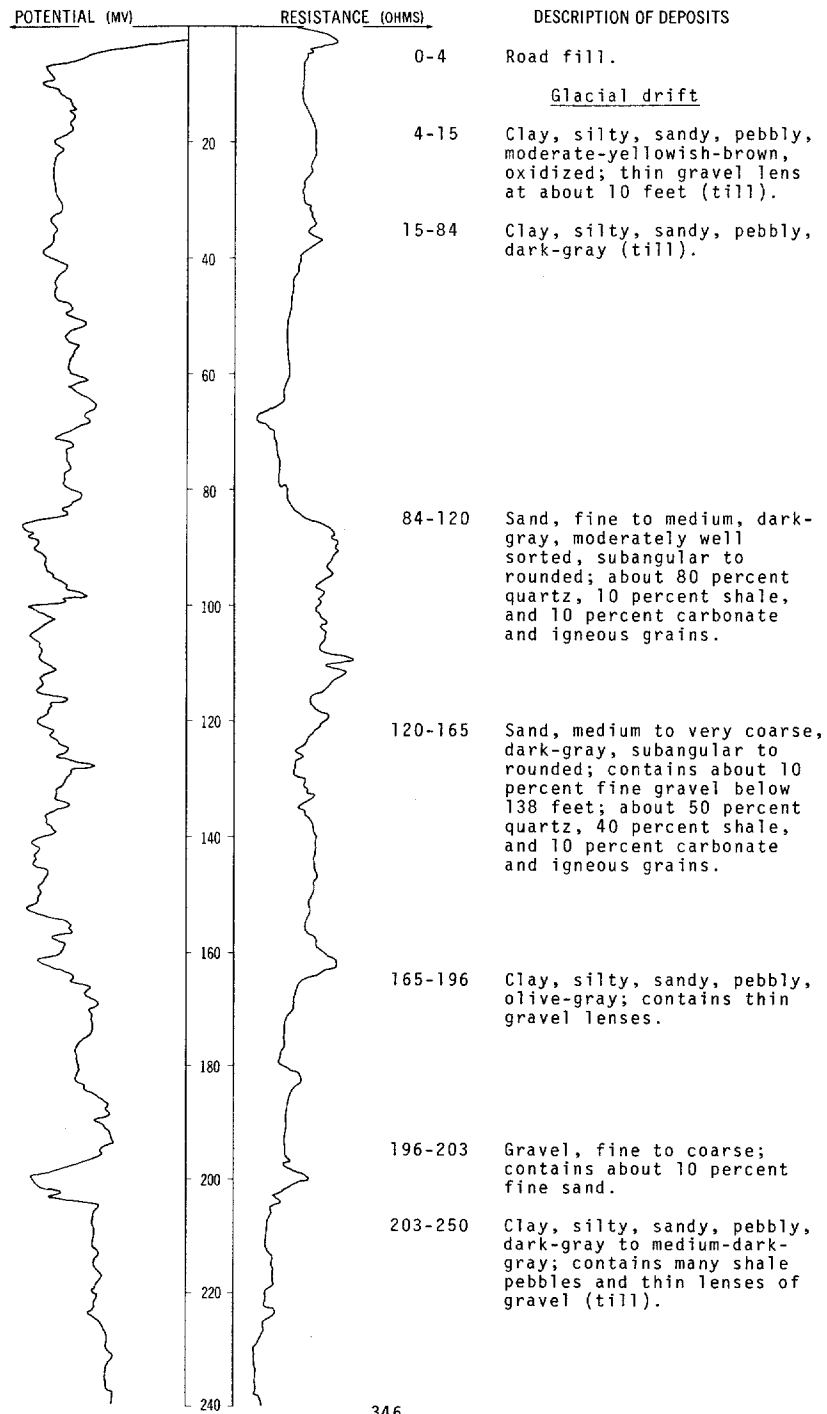


LOCATION: 132-062-23DDD

DATE DRILLED: 10/02/74

ALTITUDE: 1435
(FT, MSL)

DEPTH: 260
(FT)



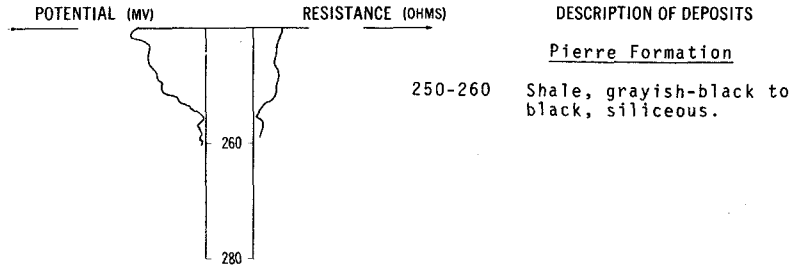
NDSWC 9141, Continued

LOCATION: 132-062-23000

DATE DRILLED: 10/02/74

ALTITUDE: 1435
(FT, MSL)

DEPTH: 260
(FT)



132-062-24DDD
NDSWC 9466

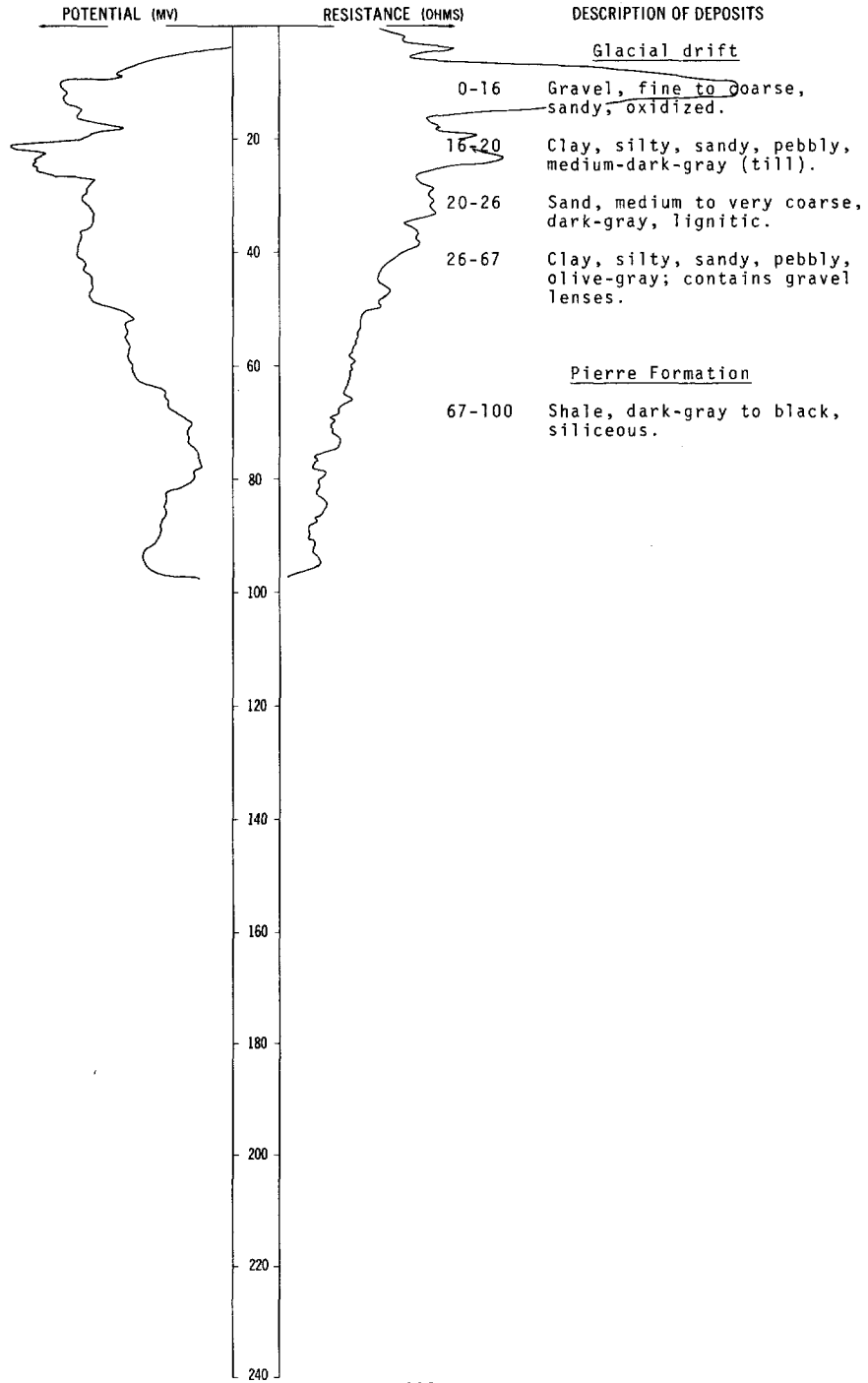
Altitude: 1420 feet

Date drilled: 10/06/75

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	19	19
	Sand, very fine to coarse, predominantly medium, subangular to rounded, oxidized-----	4	23
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	7	30
	Clay, silty, sandy, pebbly, medium-dark-gray to olive-gray (till)-----	10	40
	Sand, fine to coarse, predominantly medium to coarse, angular to subrounded-----	11	51
	Clay, sandy, silty, pebbly, medium-dark-gray to olive-gray; contains considerable gravel below 65 feet (till)-----	39	90
	Gravel, fine to coarse, and fine to very coarse sand; gravel composed of about 40 percent shale, 40 percent carbonates, and 20 percent quartz with some igneous and lignite pebbles-----	24	114
	Clay, silty, sandy, pebbly, medium-dark-gray to olive-gray; contains a few rocks (till)-----	169	283
Pierre Formation:			
	Shale, brownish-black to grayish-black, siliceous-----	17	300

LOCATION: 132-063-04BAA
ALTITUDE: 1480
(FT, MSL)

DATE DRILLED: 10/09/74
DEPTH: 100
(FT)

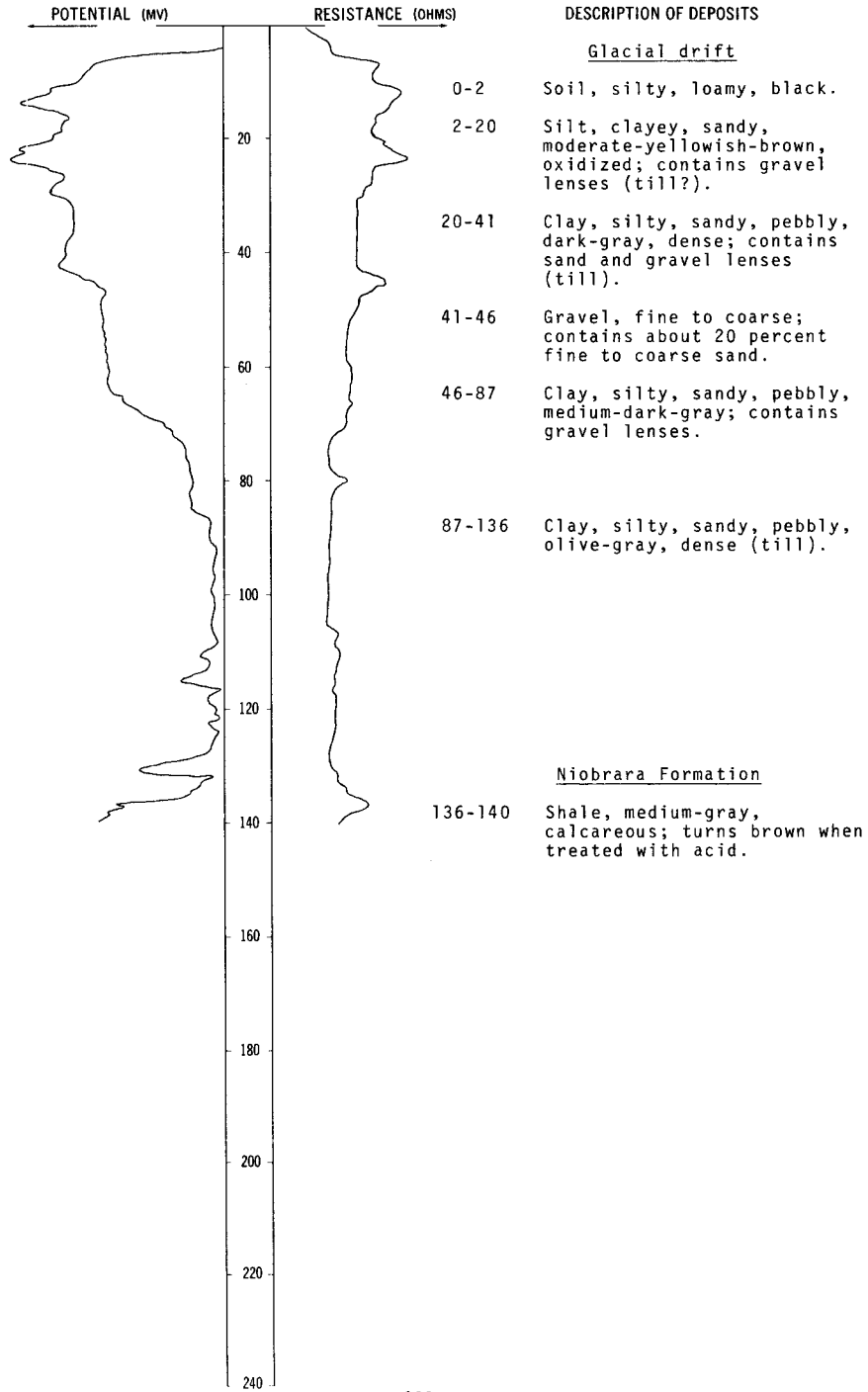


LOCATION: 133-060-33CCC

DATE DRILLED: 10/08/74

ALTITUDE: 1297
(FT, MSL)

DEPTH: 140
(FT)



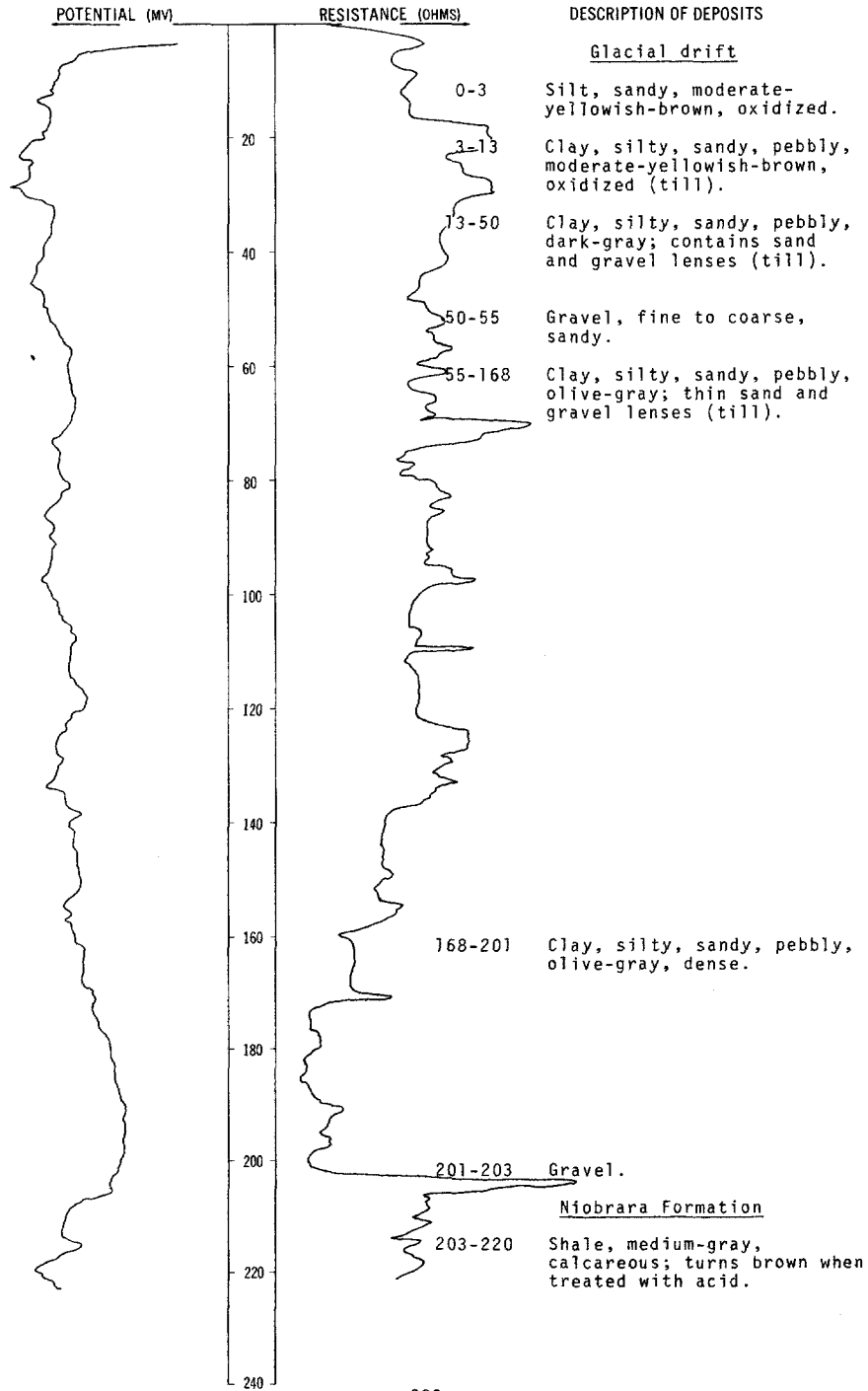
NDSWC 9149

LOCATION: 133-060-36CCC

DATE DRILLED: 10/07/74

ALTITUDE: 1390
(FT, MSL)

DEPTH: 220
(FT)



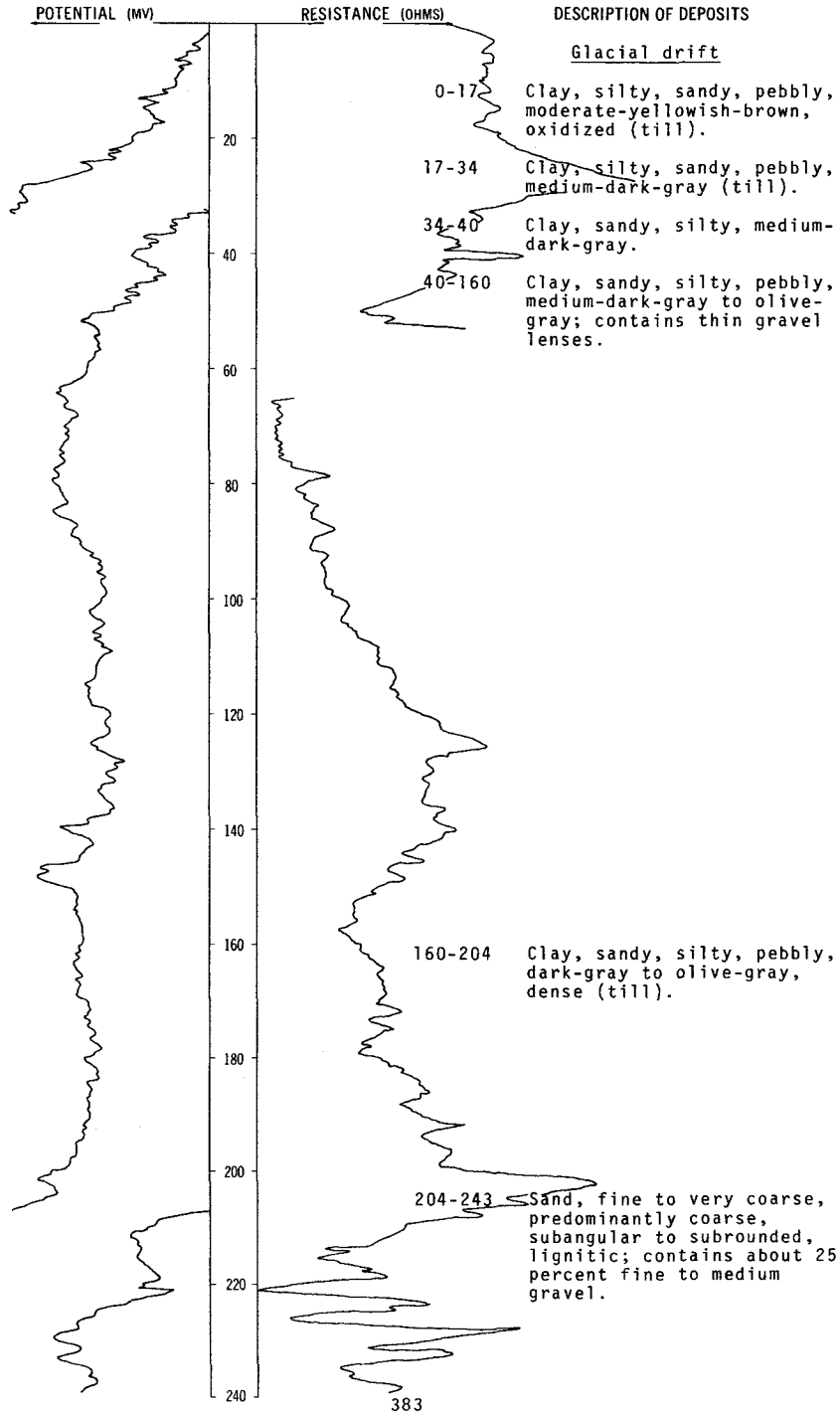
NDSWC 9448

LOCATION: 133-060-36DDD

DATE DRILLED: 9/23/75

ALTITUDE: 1383
(FT, MSL)

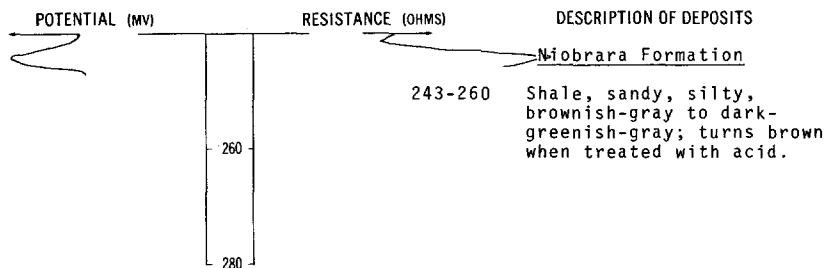
DEPTH: 260
(FT)



NDSWC 9448, Continued

LOCATION: 133-060-36DDD
 ALTITUDE: 1383
 (FT, MSL)

DATE DRILLED: 9/23/75
 DEPTH: 260
 (FT)



133-061-02AAA
 USBR L-20

Altitude: 1305 feet Date drilled: 7/25/67

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Clay, silty-----	4	4
	Sand, fine, loamy, well-graded-----	4	8
	Clay, silty, dense-----	2	10
	Clay, very dense-----	15	25

133-061-03BBB
 NDSWC 9204

Altitude: 1320 feet Date drilled: 11/06/74

Glacial drift:			
	Topsoil, sandy loam, dark-yellowish-brown-----	1	1
	Sand, fine to coarse, silty, dirty-----	24	25
	Gravel, fine to very coarse, predominantly coarse-----	25	50

133-061-03CCC
 USBR L-17

Altitude: 1320 feet Date drilled: 8/14/67

Glacial drift:			
	Loam, fine, sandy-----	2	2
	Sand, fine, well-sorted-----	23	25

133-061-04AAA
 USBR L-18

Altitude: 1324 feet Date drilled: 7/24/67

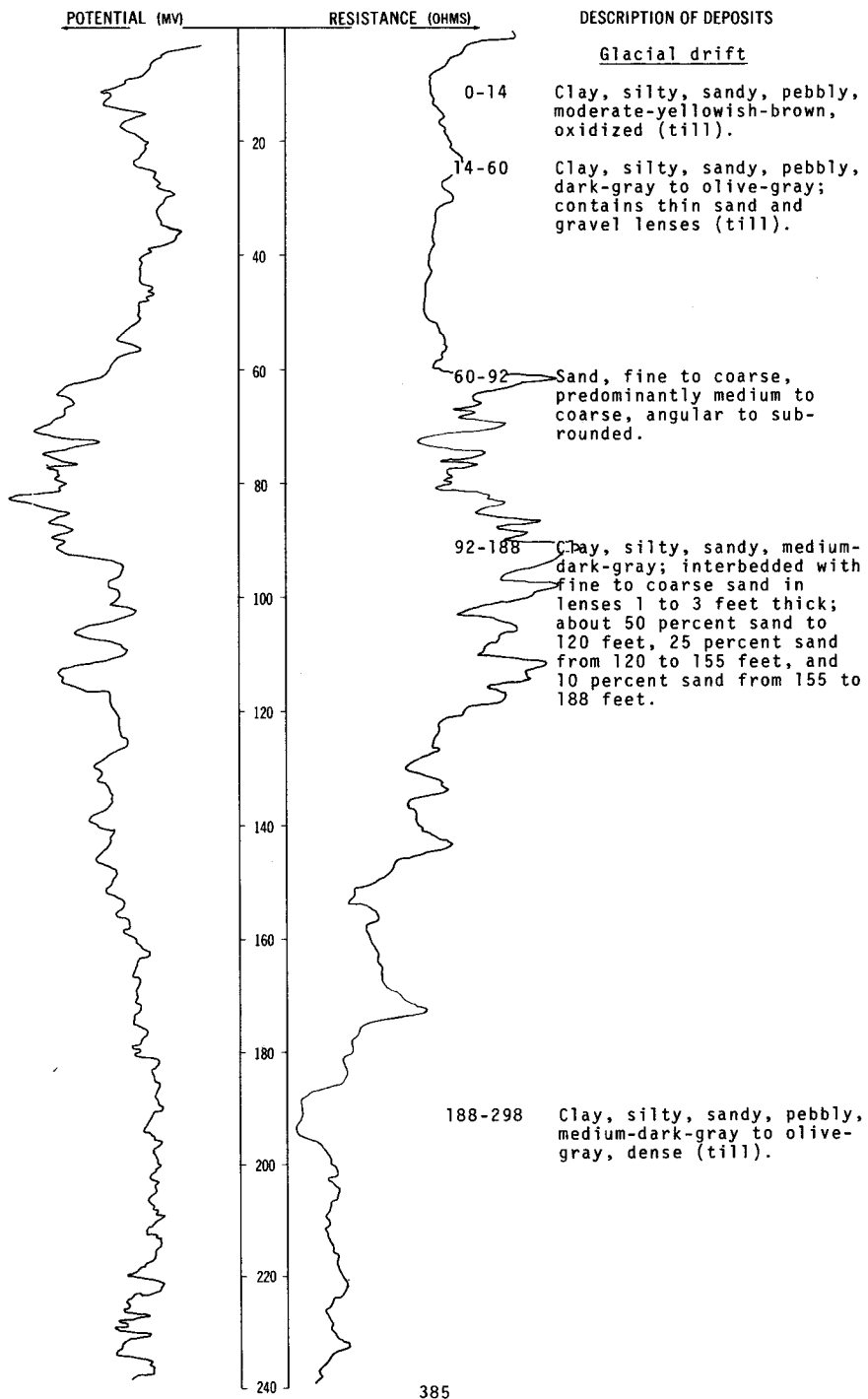
Glacial drift:			
	Loam, sandy-----	2	2
	Loam-----	2	4
	Loam, sandy-----	3	7
	Loam-----	9	16
	Loam, sandy-----	2	18
	Sand, fine, loamy, poorly sorted-----	7	25

LOCATION: 133-061-06AAA2

DATE DRILLED: 11/05/74

ALTITUDE: 1435
(FT, MSL)

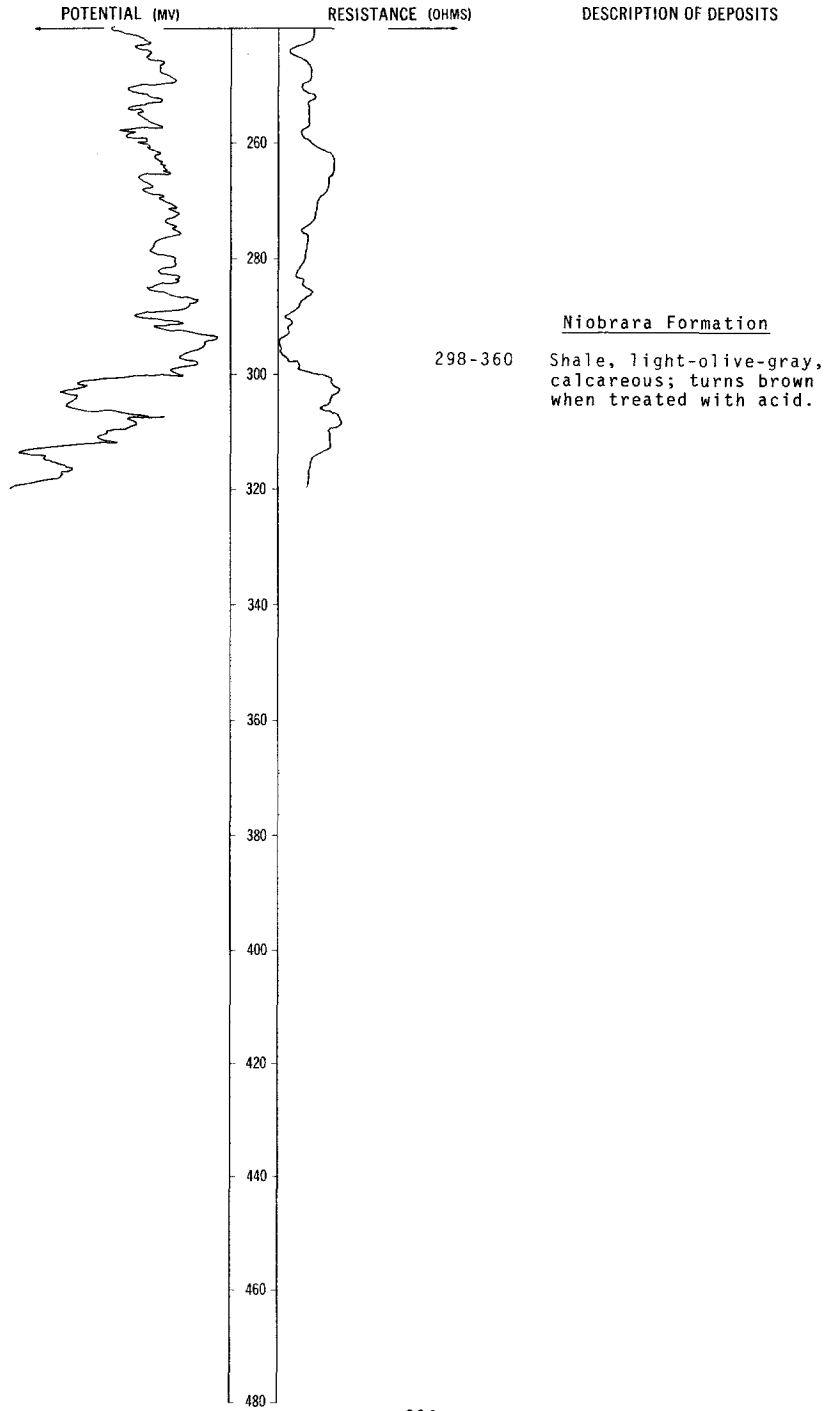
DEPTH: 320
(FT)



NDSWC 9203, Continued

LOCATION: 133-061-06AAA2
ALTITUDE: 1435
(FT, MSL)

DATE DRILLED: 11/05/74
DEPTH: 320
(FT)



133-061-08CDC
(Log from Beitz Pump Service)

Date drilled: 10/03/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Dirt, black-----	1	1
	Clay, yellow-----	34	35
	Clay, blue-----	21	56
	Clay, sandy, blue-----	35	91
	Sand, fine-----	3	94

133-061-14BAA
(Log from Beitz Pump Service)

Date drilled: 11/ /74

Glacial drift:			
	Gravel-----	50	50
	Sand, coarse-----	6	56

133-061-17AAD
(Log from Beitz Pump Service)

Date drilled: 6/07/74

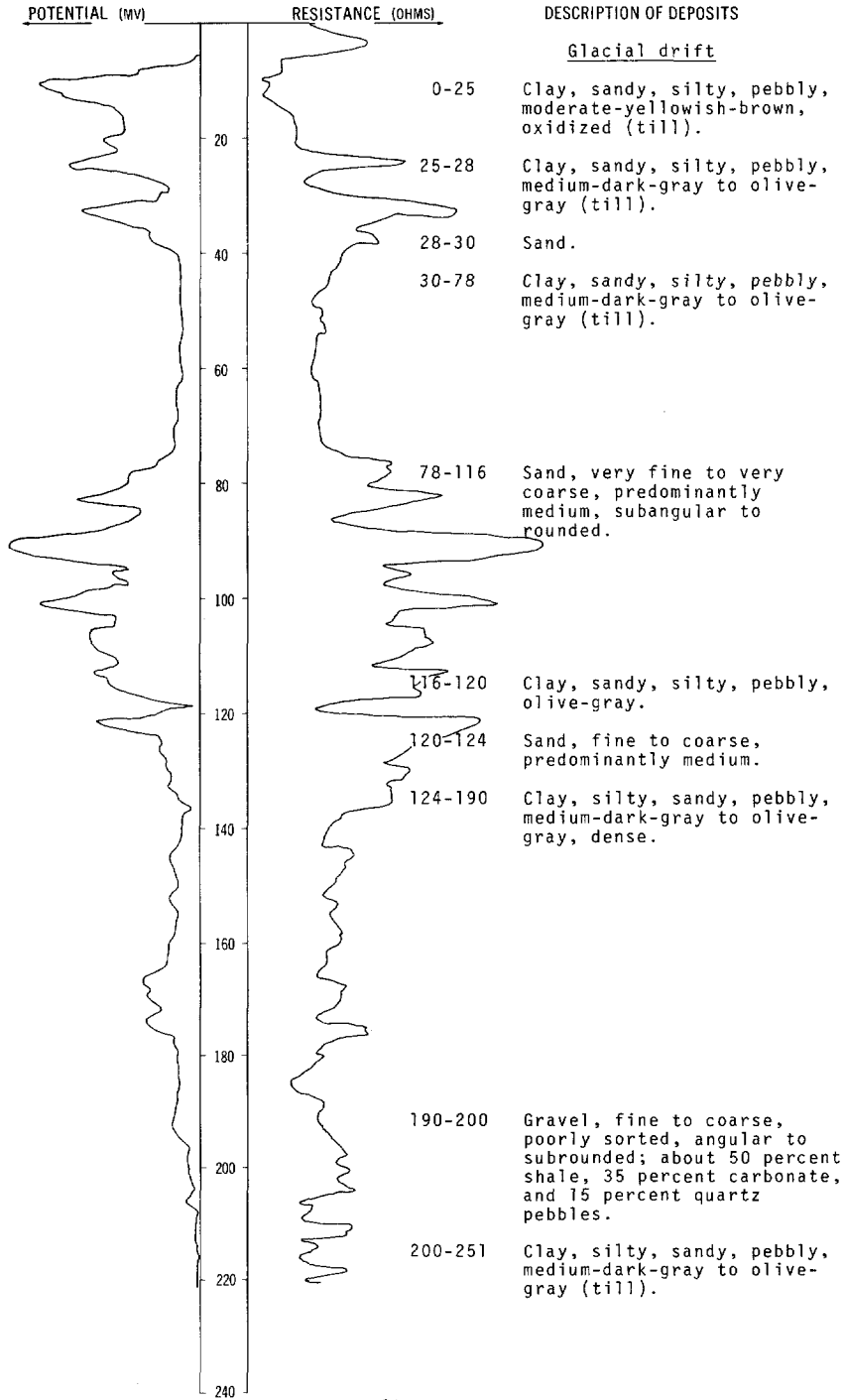
Glacial drift:			
	Dirt, black-----	1	1
	Clay, yellow-----	19	20
	Clay, blue-----	25	45
	Clay, gravelly, blue-----	1	46
	Clay, sandy, blue-----	28	74

LOCATION: 133-061-20CCC1

DATE DRILLED: 10/07/75

ALTITUDE: 1429
(FT, MSL)

DEPTH: 260
(FT)



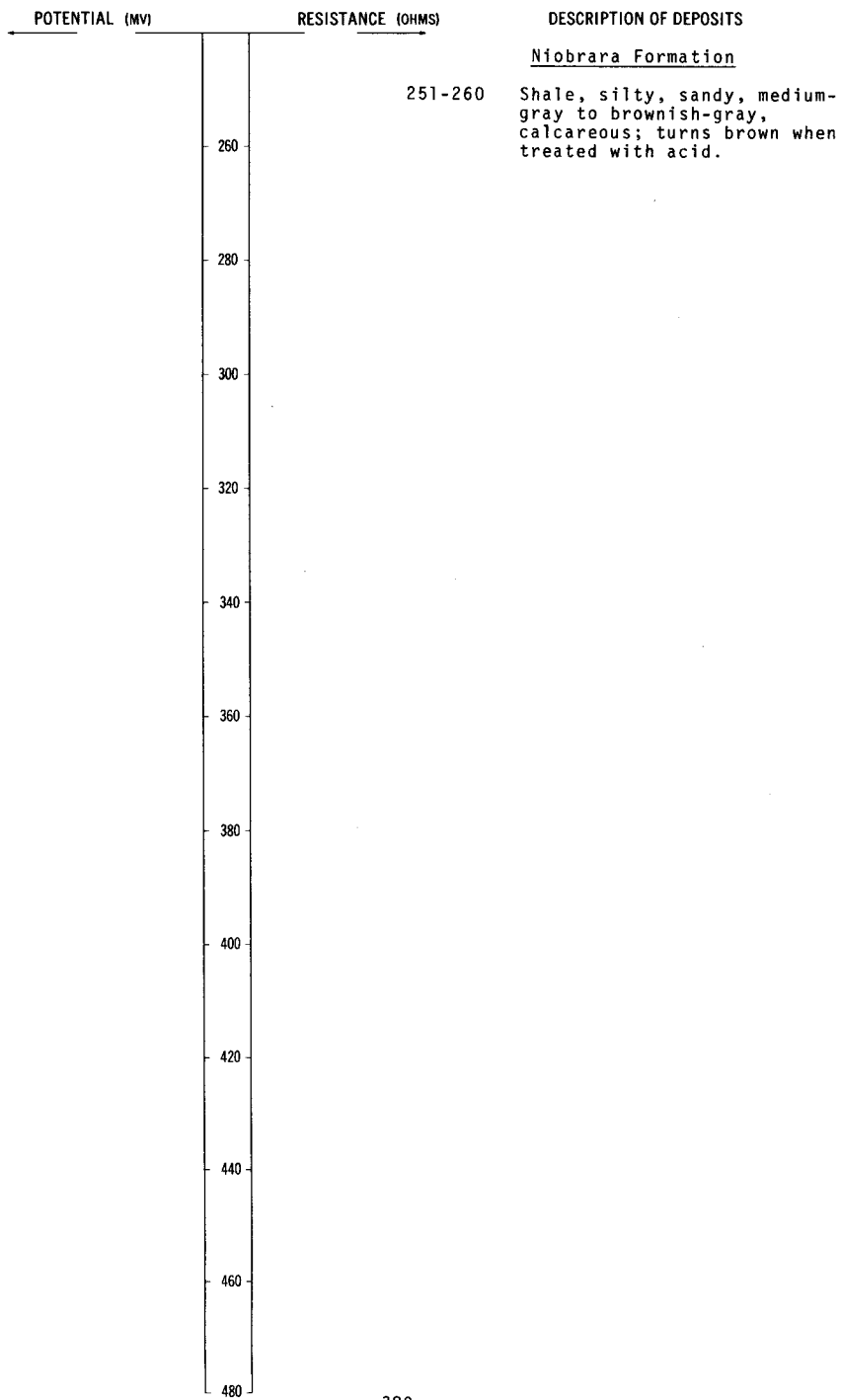
NDSWC 9468, Continued

LOCATION: 133-061-20CCC1

DATE DRILLED: 10/07/75

ALTITUDE: 1429
(FT, MSL)

DEPTH: 260
(FT)



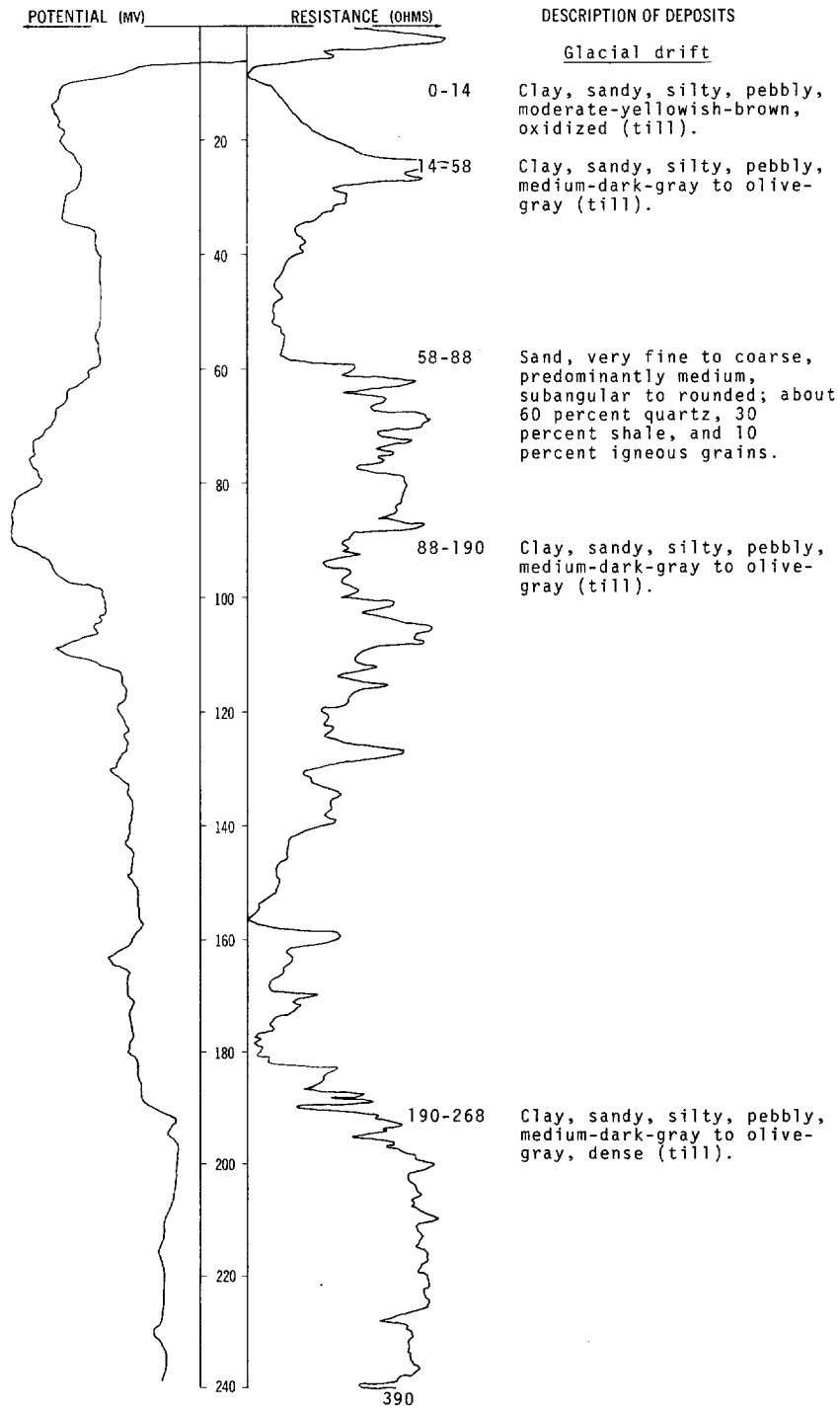
NDSWC 9467

LOCATION: 133-061-28BAB1

DATE DRILLED: 10/07/75

ALTITUDE: 1418
(FT, MSL)

DEPTH: 280
(FT)

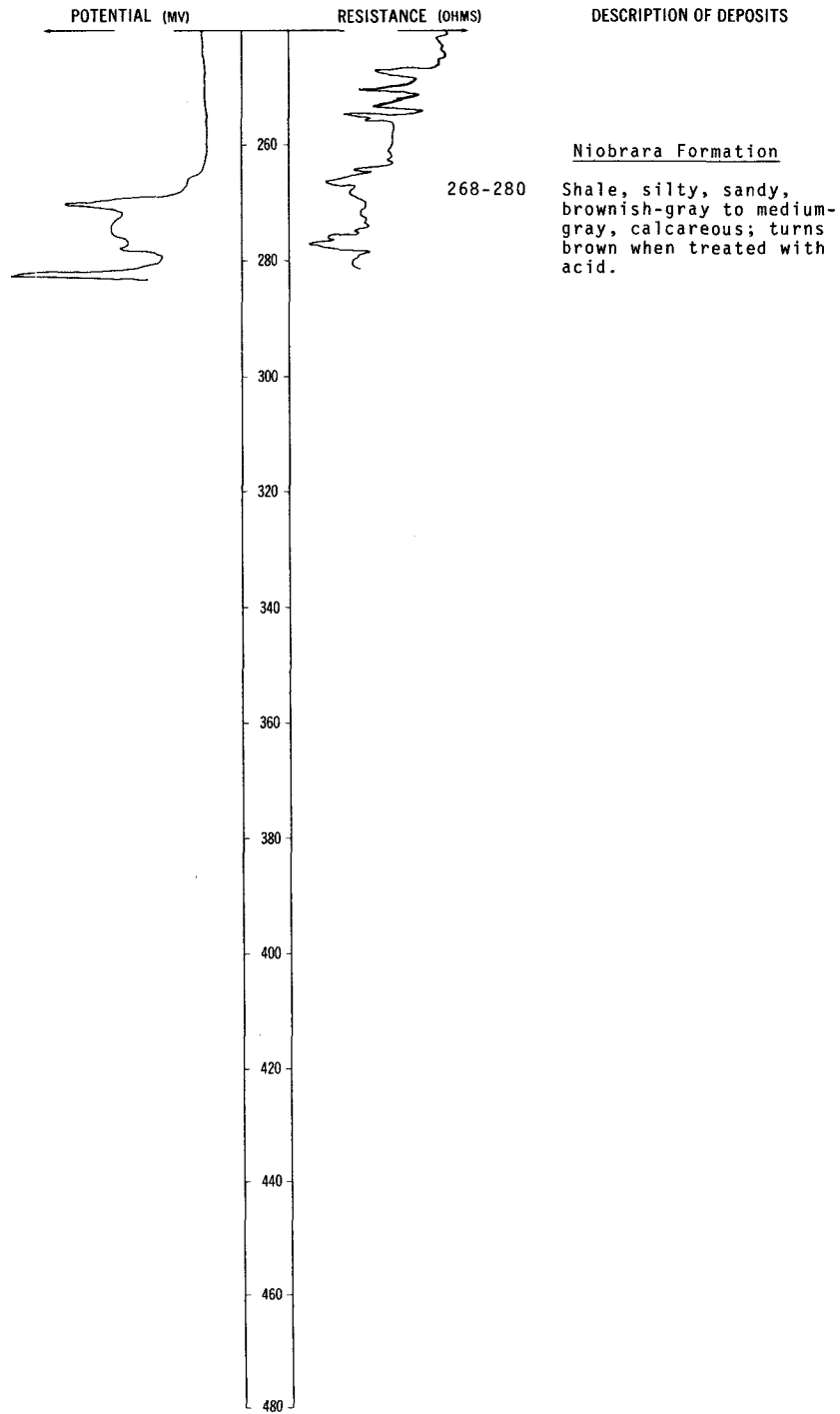


LOCATION: 133-061-28BAB1

DATE DRILLED: 10/07/75

ALTITUDE: 1418
(FT, MSL)

DEPTH: 280
(FT)

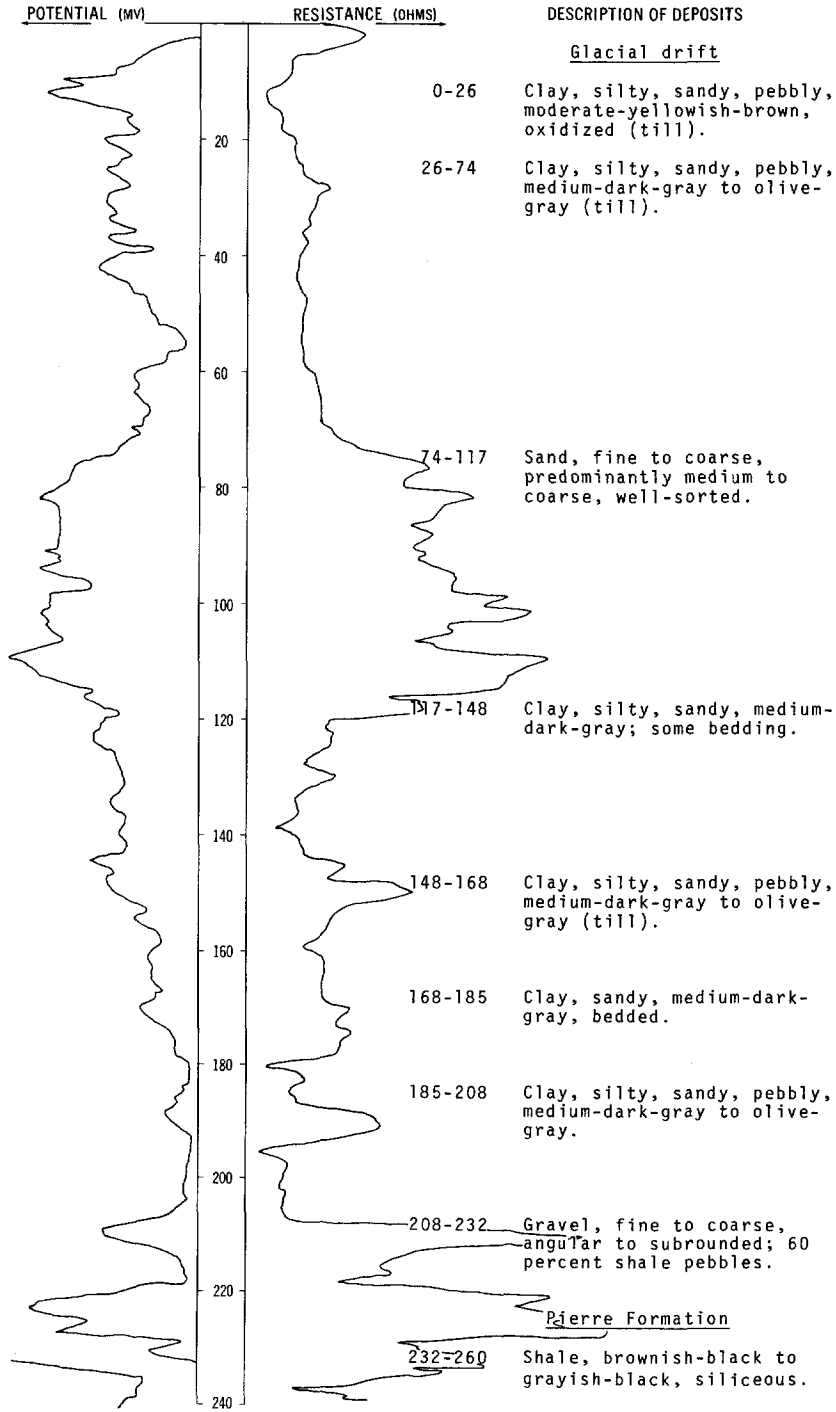


LOCATION: 133-061-30BBB1

DATE DRILLED: 10/07/75

ALTITUDE: 1434
(FT, MSL)

DEPTH: 260
(FT)



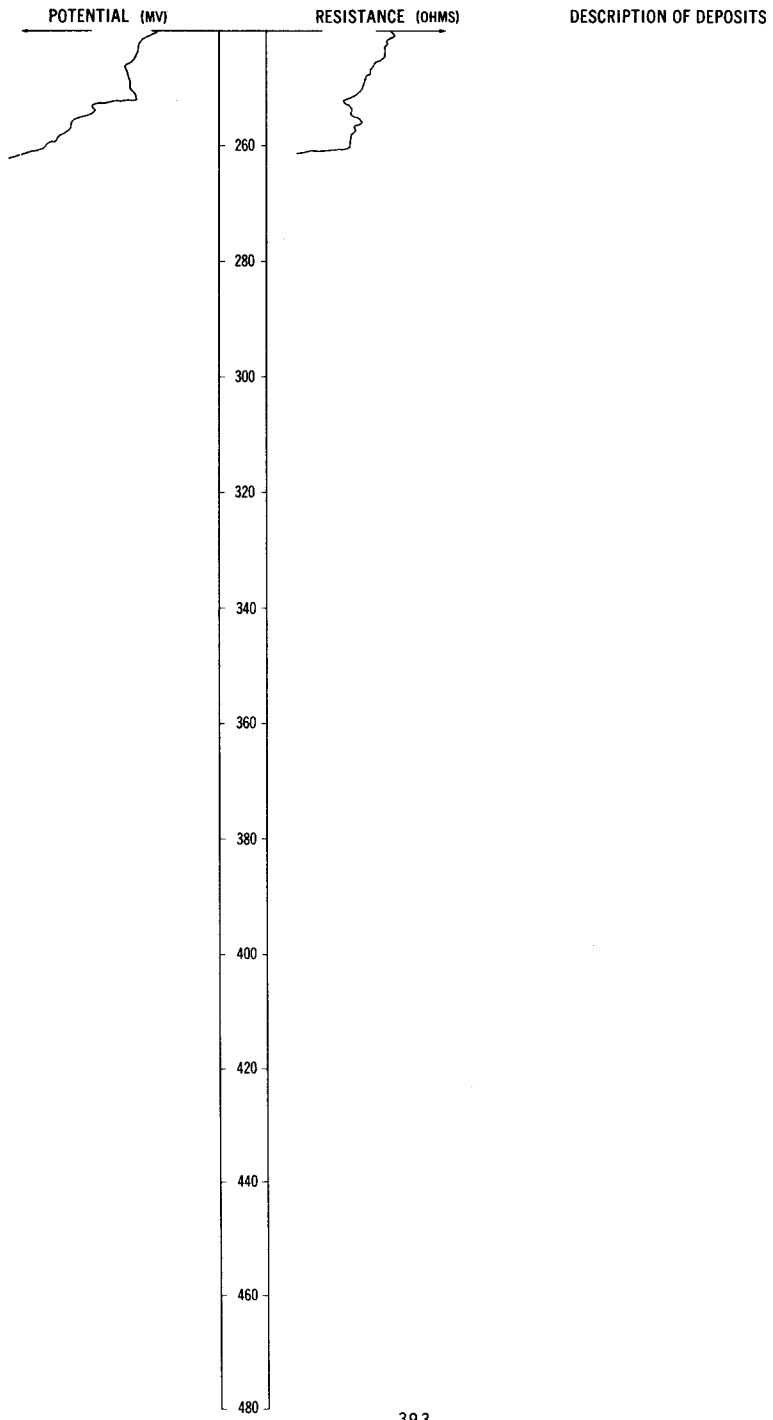
NDSWC 9469, Continued

LOCATION: 133-061-30BBB1

DATE DRILLED: 10/07/75

ALTITUDE: 1434
(FT, MSL)

DEPTH: 260
(FT)

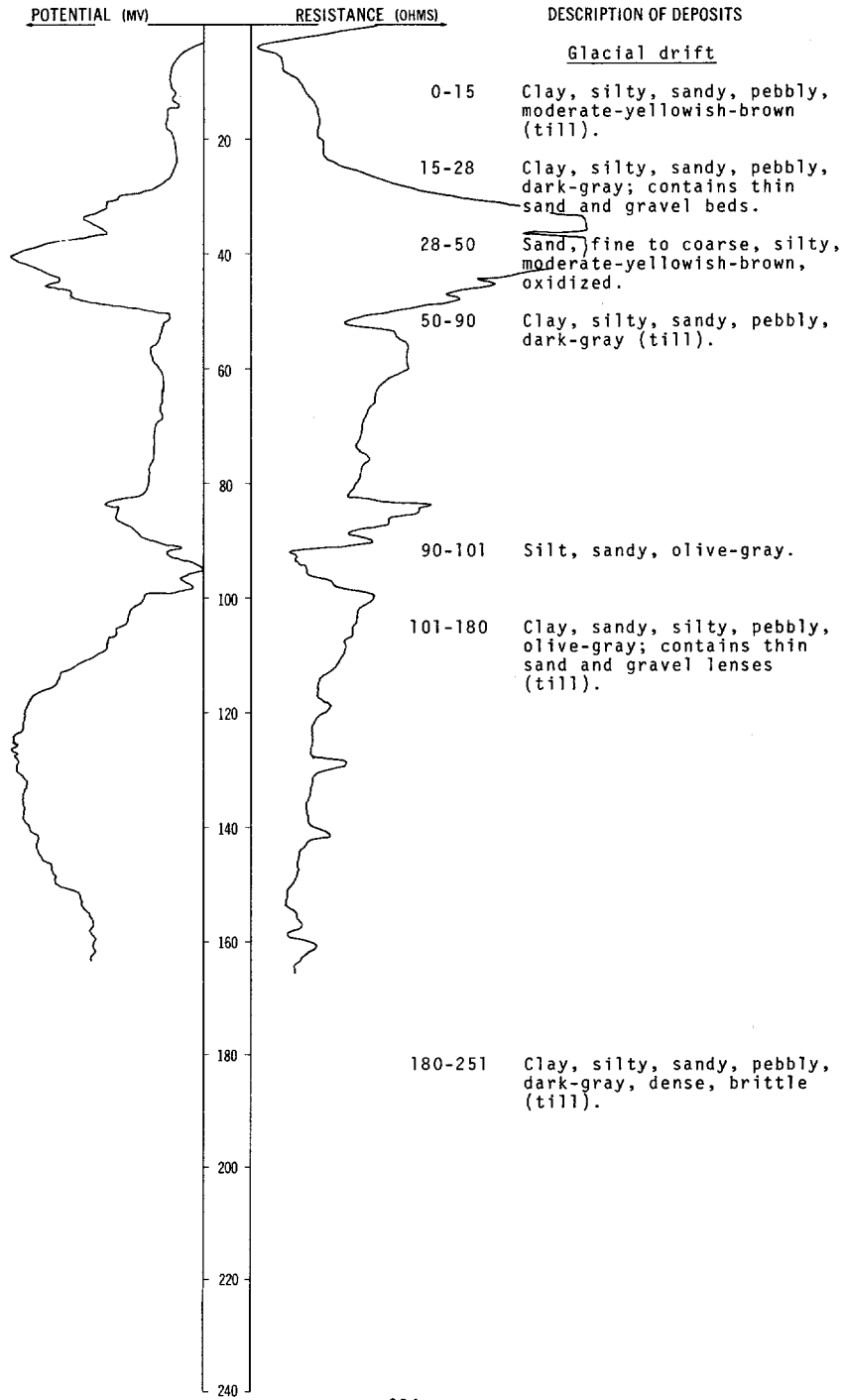


LOCATION: 133-061-36DDD

DATE DRILLED: 10/08/74

ALTITUDE: 1408
(FT, MSL)

DEPTH: 280
(FT)



NDSWC 9153, Continued

LOCATION: 133-061-36DDD

DATE DRILLED: 10/08/74

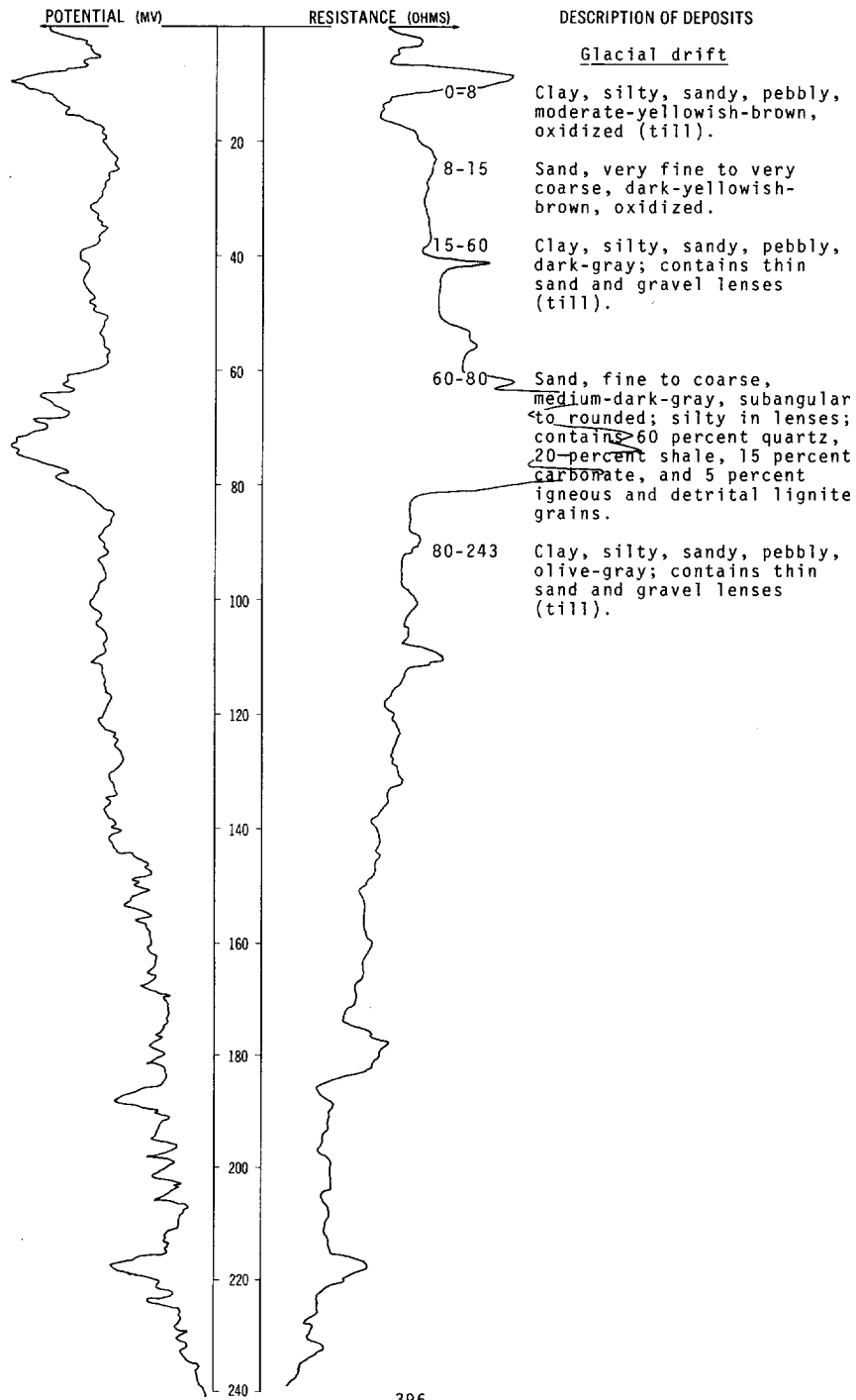
ALTITUDE: 1408
(FT, MSL)

DEPTH: 280
(FT)

POTENTIAL (MV)	RESISTANCE (OHMS)	DESCRIPTION OF DEPOSITS
		<u>Niobrara Formation</u>
	251-280	Shale, medium-greenish-gray, calcareous; contains white specks; turns brown when treated with acid.
260		
280		
300		
320		
340		
360		
380		
400		
420		
440		
460		
480	395	

LOCATION: 133-062-02AAA1
 ALTITUDE: 1407
 (FT, MSL)

DATE DRILLED: 11/05/74
 DEPTH: 260
 (FT)



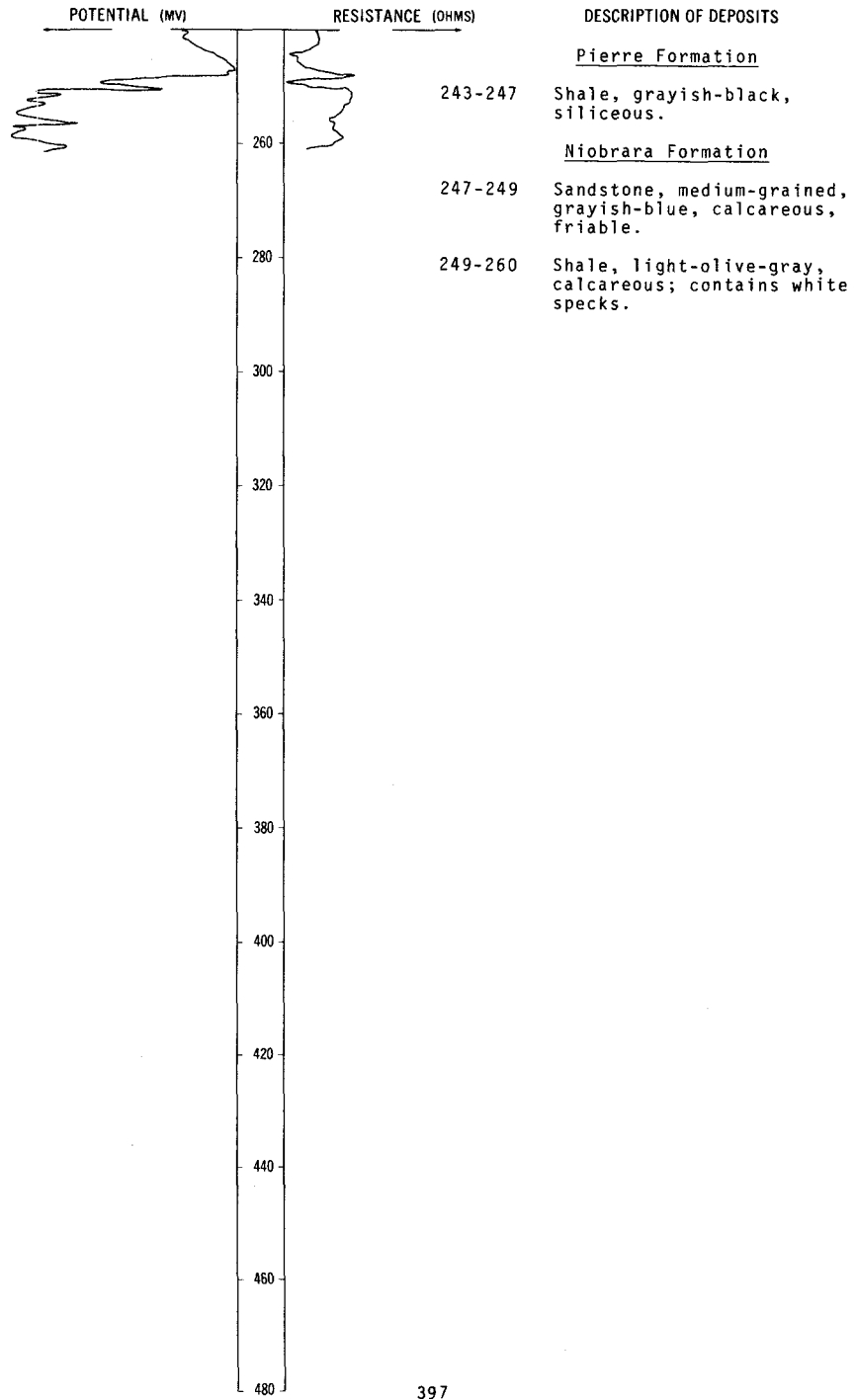
NDSWC 9202, Continued

LOCATION: 133-062-02AAA1

DATE DRILLED: 11/05/74

ALTITUDE: 1407
(FT, MSL)

DEPTH: 260
(FT)



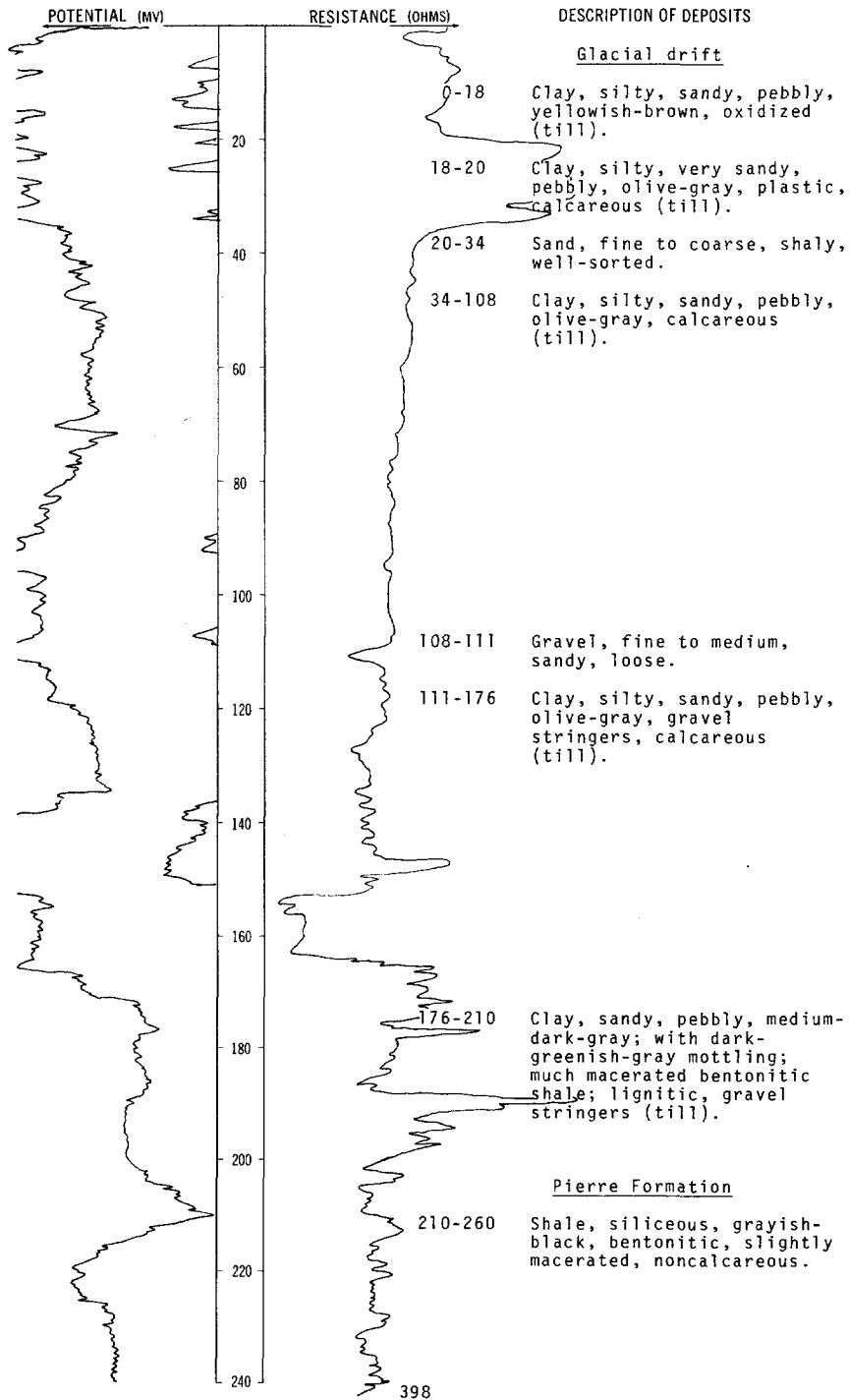
Test hole 8734
(Log from Naplin, 1976)

LOCATION: 133-062-06AAA

DATE DRILLED: 7/11/73

ALTITUDE: 1490
(FT, MSL)

DEPTH: 260
(FT)



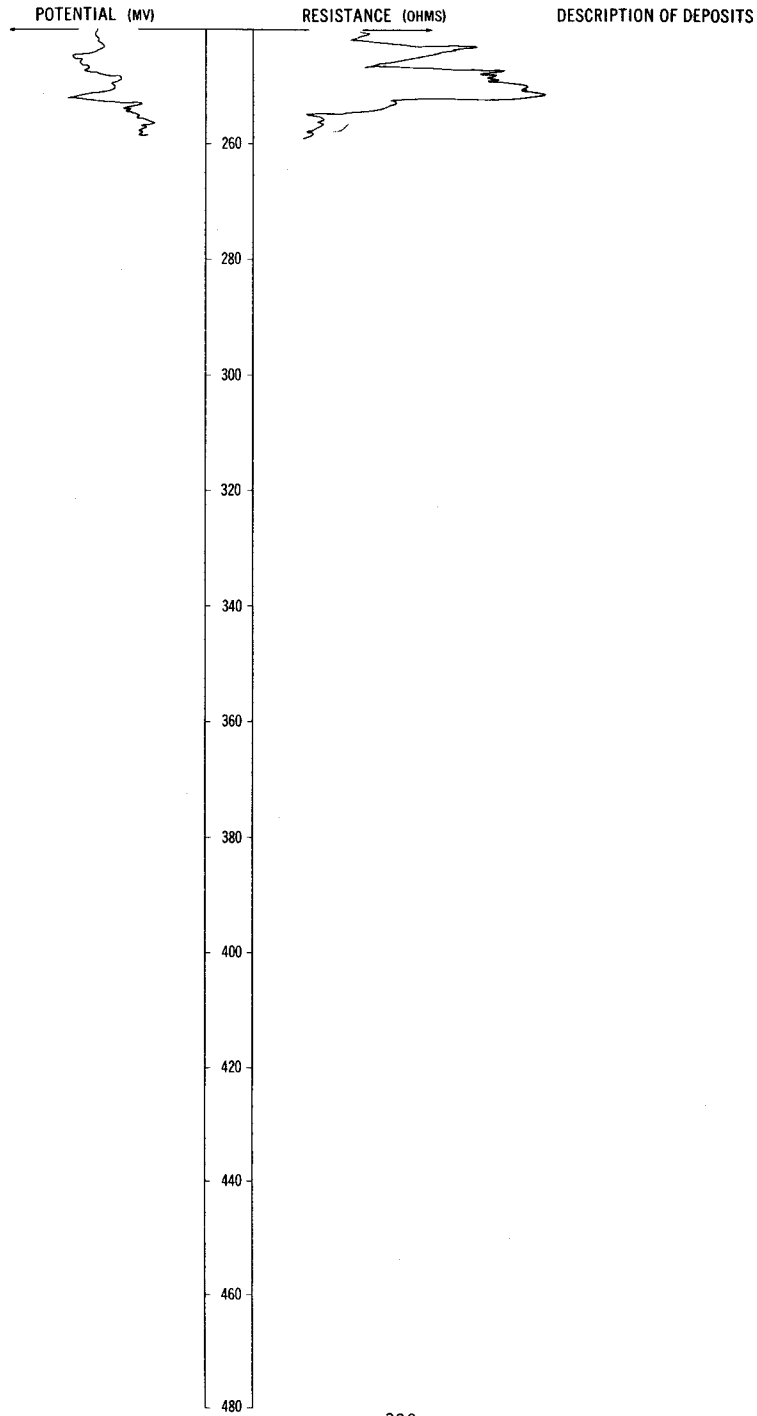
Test hole 8734, Continued
(Log from Naplin, 1976)

LOCATION: 133-062-06AAA

DATE DRILLED: 7/11/73

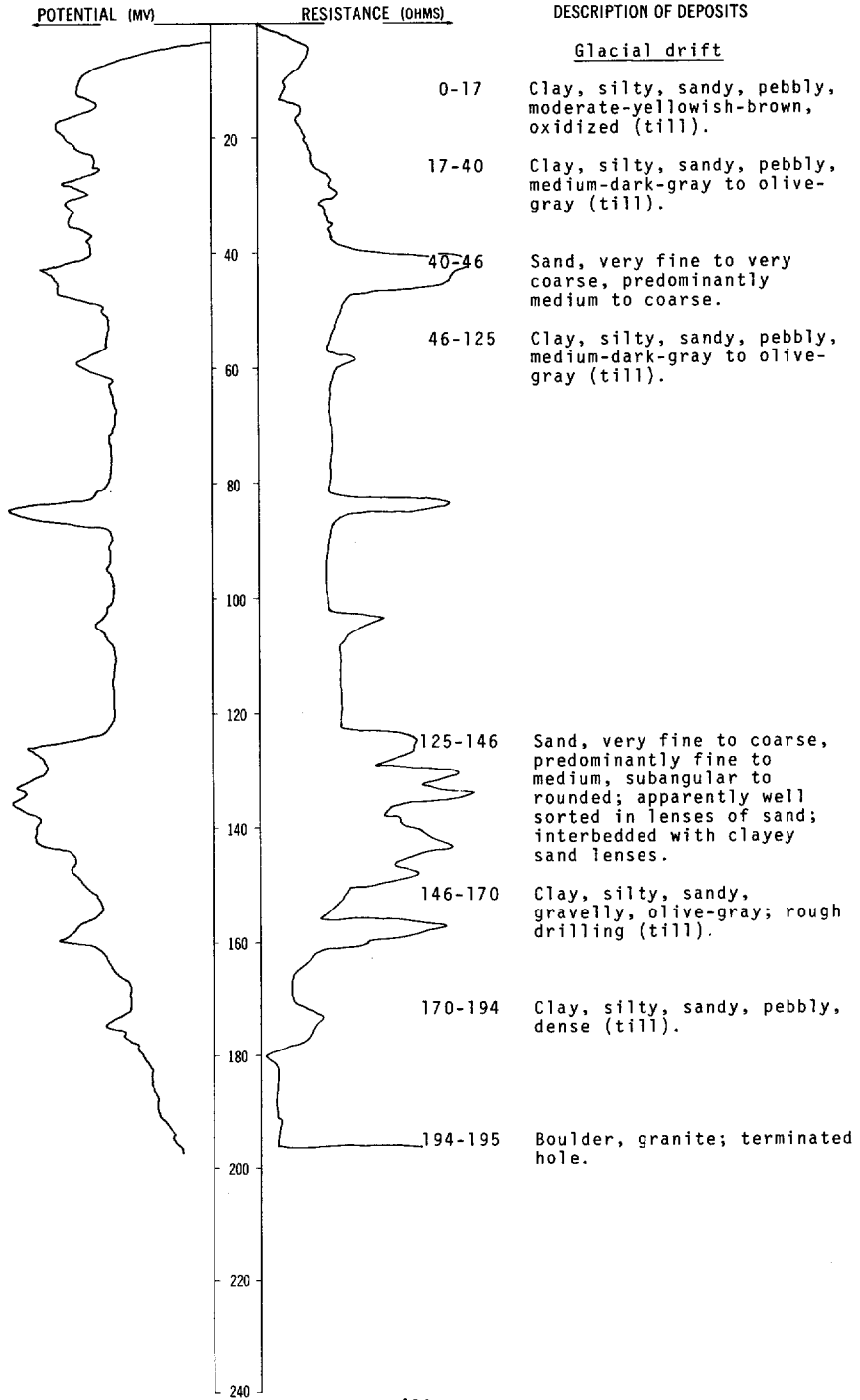
ALTITUDE: 1490
(FT, MSL)

DEPTH: 260
(FT)



LOCATION: 133-062-21DDD
 ALTITUDE: 1465
 (FT, MSL)

DATE DRILLED: 10/08/75
 DEPTH: 195
 (FT)

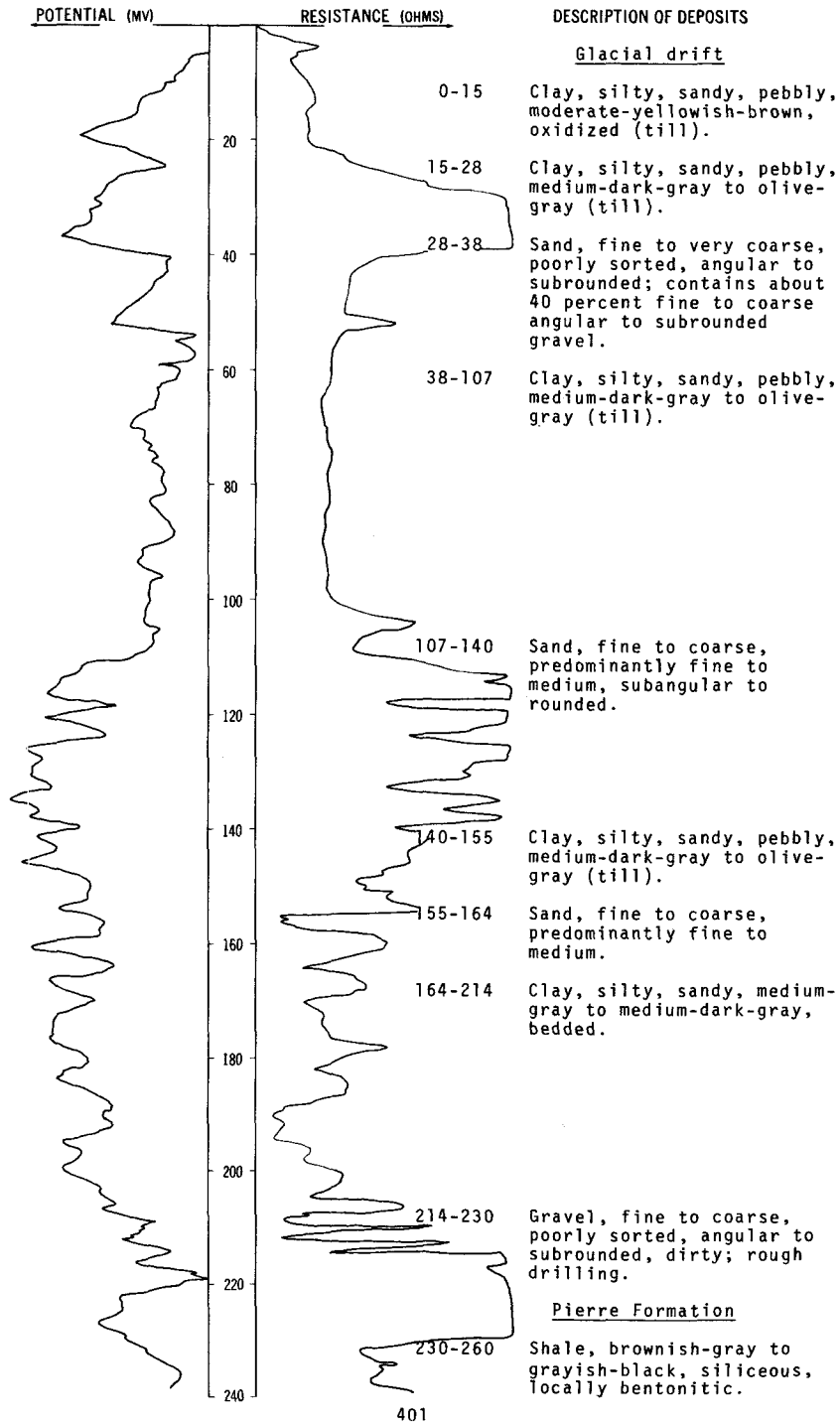


LOCATION: 133-062-220DD1

DATE DRILLED: 10/08/75

ALTITUDE: 1452
(FT, MSL)

DEPTH: 260
(FT)



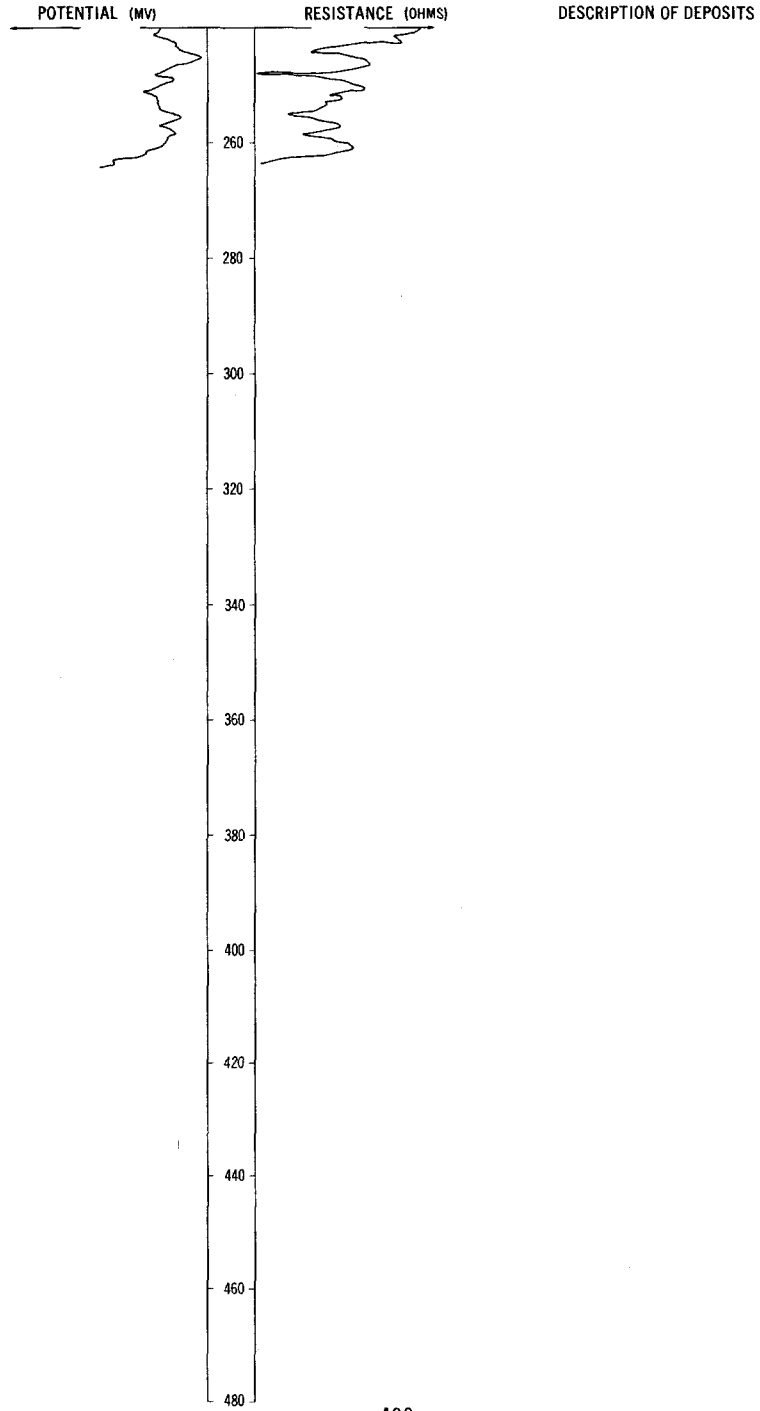
NDSWC 9471, Continued

LOCATION: 133-062-22DDD1

DATE DRILLED: 10/08/75

ALTITUDE: 1452
(FT, MSL)

DEPTH: 260
(FT)

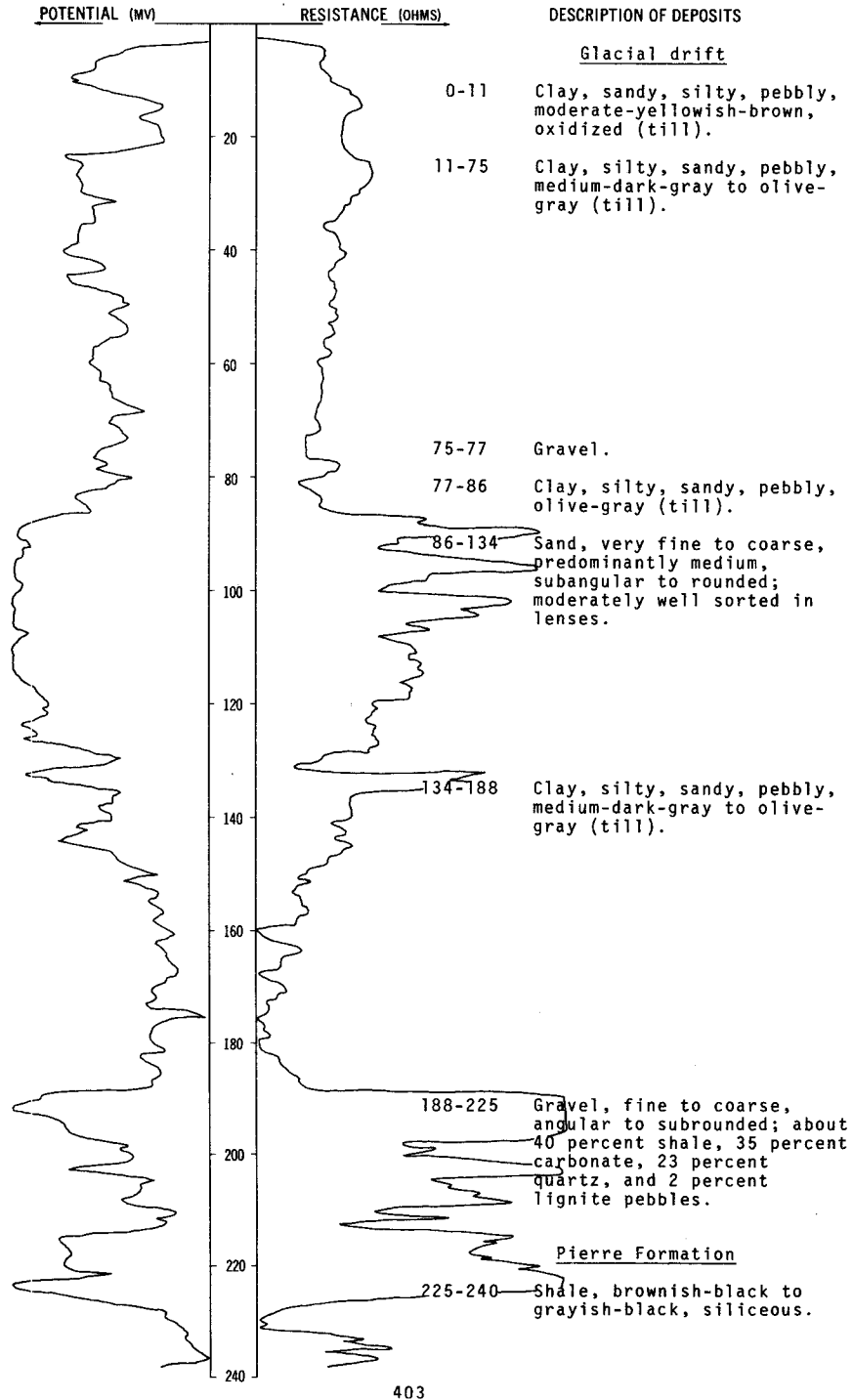


LOCATION: 133-062-24CCB1

DATE DRILLED: 10/ /75

ALTITUDE: 1442
(FT, MSL)

DEPTH: 240
(FT)



133-062-29AAD
(Log from Beitz Pump Service)

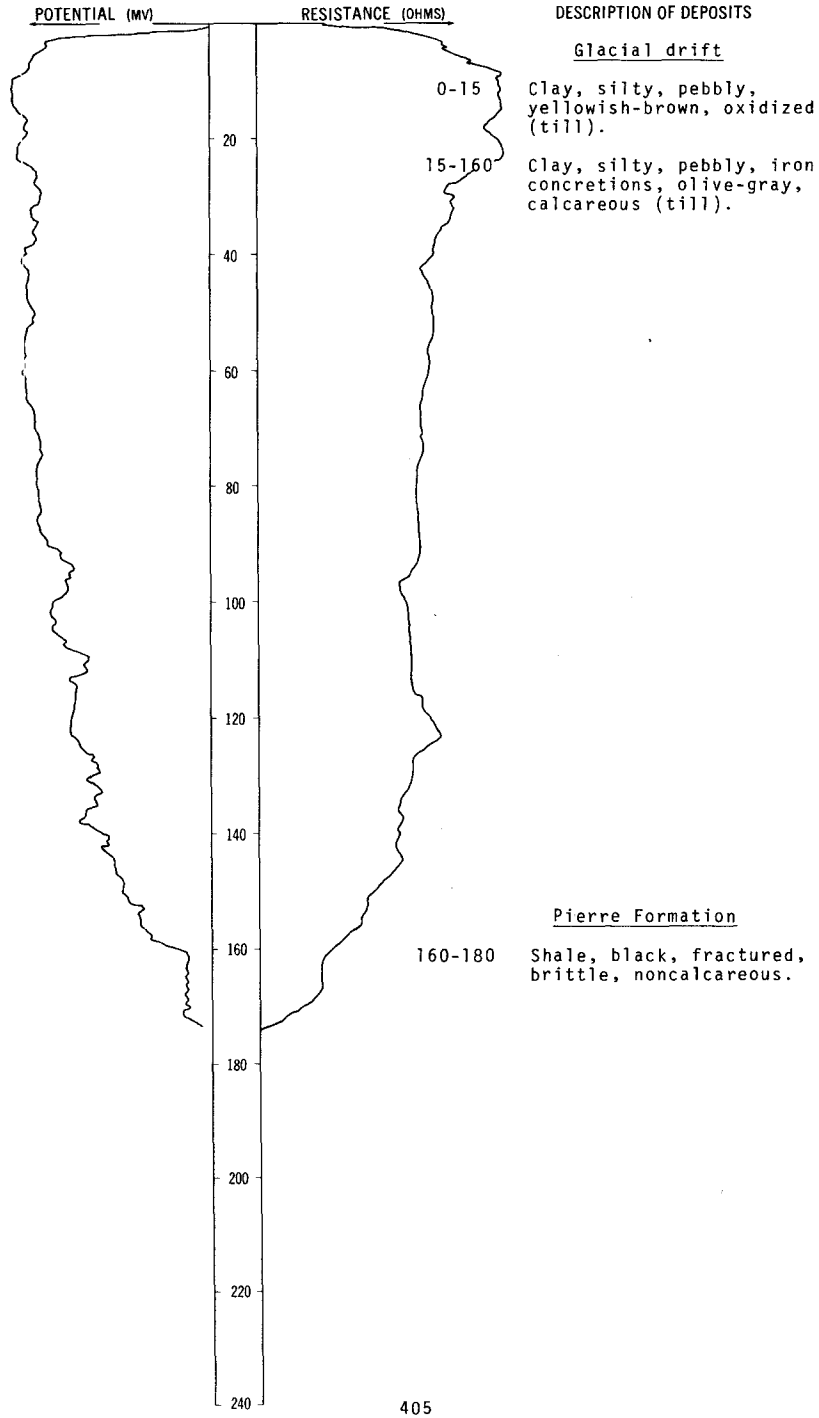
Date drilled: 9/02/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Dirt, black-----	4	4
	Clay, yellow-----	14	18
	Clay, blue-----	102	120
	Clay, gravelly, blue-----	1	121
	Clay, sandy, blue-----	31	152
	Sand, pebbly-----	3	155

Test hole 8705
(Log from Naplin, 1976)

LOCATION: 133-063-02AAA
ALTITUDE: 1495
(FT, MSL)

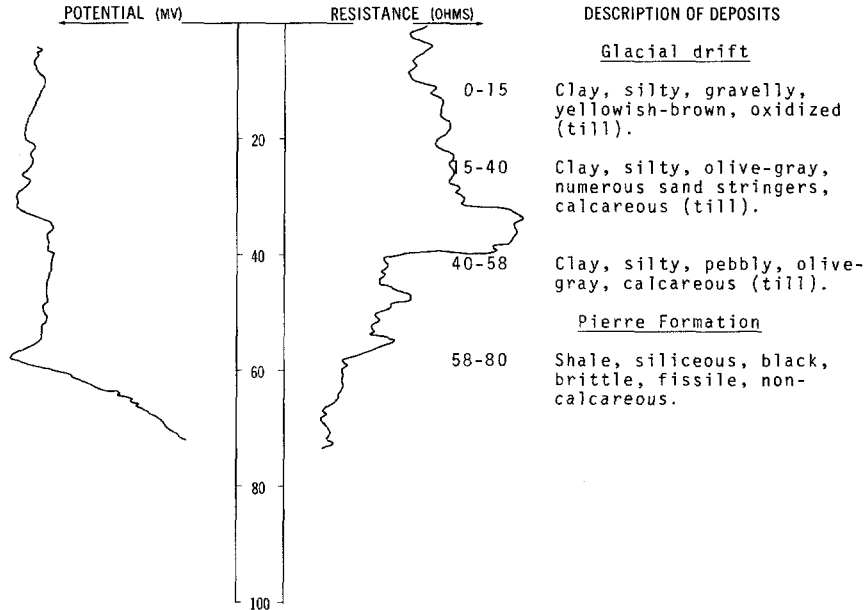
DATE DRILLED: 6/20/73
DEPTH: 180
(FT)



Test hole 8702
(Log from Naplin, 1976)

LOCATION: 133-063-05AAA
ALTITUDE: 1525
(FT, MSL)

DATE DRILLED: 6/20/73
DEPTH: 80
(FT)



133-063-06BAA
Test hole 8700
(Log from Naplin, 1976)

Altitude: 1510 feet

Date drilled: 6/20/73

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:	Topsoil, silty, sandy clay loam, light-brown-----	1	1
	Sand, medium to very coarse, gravelly, subangular to well-rounded, shaly-----	8	9
Pierre Formation:	Shale, siliceous, dark-gray to black, fissile, fractured-----	11	20

133-063-0888A
 Test hole 8732
 (Log from Naplin, 1976)

Altitude: 1520 feet	Date drilled: 7/11/73		
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:	Clay, silty, sandy, pebbly, yellowish-brown, oxidized (till)-----	7	7
	Sand, medium to very coarse, gravelly, subrounded, fair sorting-----	8	15
Pierre Formation:	Shale, siliceous, grayish-black, brittle, fractured-----	5	20

133-063-0888D
 (Log from Beitz Pump Service)

Date drilled: 8/14/74		
Dirt, black-----	1	1
Clay, yellow-----	9	10
Gravel and clay-----	1	11
Slate-----	124	135

133-063-08DAA1
 (Log from Kamoni Well Boring)

Date drilled: 6/06/73			
Glacial drift:	Dirt, black-----	2	2
	Clay, yellow-----	18	20
	Clay, blue-----	5	25
	Sand, coarse, clean-----	4	29

133-063-27CCB
 Test hole 8733
 (Log from Naplin, 1976)

Altitude: 1495 feet	Date drilled: 7/11/73		
Glacial drift:	Clay, very silty, sandy, yellowish-brown, oxidized (alluvium)-----	5	5
	Sand, fine to very coarse, gravelly, subangular to subrounded, fair sorting, shaly-----	6	11
Pierre Formation:	Shale, siliceous, grayish-black, brittle, fractured, noncalcareous-----	9	20

133-064-01AAA
 Test hole 8699
 (Log from Naplin, 1976)

Altitude:	1525 feet	Date drilled:	6/20/73
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, sandy, pebbly, yellowish-brown, oxidized (till)-----	21	21
	Clay, silty, pebbly, olive-gray, calcareous (till)-----	3	24
	Sand, fine to very coarse, well-rounded-----	7	31
Pierre Formation:			
	Shale, siliceous, dark-gray to black, fissile, fractured-----	29	60

133-064-02DCC
 (Log from Beitz Pump Service)

		Date drilled:	7/24/74
	Dirt, black-----	1	1
	Clay, yellow-----	3	4
	Clay, blue-----	6	10
	Shale-----	65	75

133-064-03AAA
 Test hole 8697
 (Log from Naplin, 1976)

Altitude:	1545 feet	Date drilled:	6/20/73
Glacial drift:			
	Topsoil, silty clay loam, black-----	1	1
Pierre Formation:			
	Shale, siliceous, yellowish-brown, weathered, oxidized, fractured-----	9	10
	Shale, siliceous, black, fractured-----	30	40

133-064-03ADC
 City of Edgeley 7
 (Log from C. A. Simpson & Son)

Altitude:	1540 feet	Date drilled:	7/ /67
Glacial drift:			
	Topsoil-----	1	1
	Clay, sandy, rocks, yellow-----	14	15
Pierre Formation:			
	Shale, blue-----	86	101

133-064-03BDC
 City of Edgeley 6
 (Log from C. A. Simpson & Son)

Altitude: 1555 feet Date drilled: 7/ /63

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil-----	1	1
	Clay, yellow-----	23	24
	Clay, blue-----	7	31
	Sand, very fine, clayey-----	20	51
	Sand, clayey-----	5	56
	Sand, fine, some clay-----	4	60
	Sand, gravelly, clayey-----	3	63
	Gravel, coarse, rocks-----	10	73
	Sand, clayey-----	1	74
	Sand, gravelly-----	1	75
	Clay, hard-----	½	75½
	Sand, gravelly, water-----	6½	82
	Clay, gravelly-----	--	82

133-064-03CDC
 City of Edgeley 5
 (Log from C. A. Simpson & Son)

Altitude: 1560 feet Date drilled: 7/ /63

Glacial drift:			
	Topsoil-----	1	1
	Clay, sandy, gravelly-----	13	14
	Clay, sandy, gravelly, rocks-----	24	38
Pierre Formation:			
	Shale-----	84	122

133-064-05AAA
 Test hole 8695
 (Log from Naplin, 1976)

Altitude: 1605 feet Date drilled: 6/09/73

Glacial drift:			
	Clay, silty, sandy, pebbly, yellowish-brown, oxidized (till)-----	20	20
	Clay, silty, pebbly, olive-gray, calcareous (till)-----	15	35
Pierre Formation:			
	Shale, siliceous, grayish-black to black, brittle, fractured, non-calcareous-----	25	60

133-064-08BCC
 (Log from Beitz Pump Service)

Date drilled: 9/10/74

	Dirt, black-----	2	2
	Clay, yellow-----	18	20
	Clay, blue-----	4	24
	Slate-----	26	50

133-064-15ADD
 NDSWC 8727
 (Log from Naplin, 1976)

Altitude:	1560 feet	Date drilled:	7/10/73
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, silty, pebbly, yellowish-brown, oxidized (till)-----	7	7
Pierre Formation:			
	Shale, siliceous, medium dark gray with reddish-brown staining, brittle, noncalcareous-----	13	20

133-064-15BBB
 Test hole 8731
 (Log from Naplin, 1976)

Altitude:	1560 feet	Date drilled:	7/11/73
Glacial drift:			
	Clay, silty, sandy, pebbly, cobbles, yellowish-brown, oxidized (till)-----	11	11
	Clay, sandy, pebbly, gravelly, olive-gray, calcareous (till)-----	12	23
Pierre Formation:			
	Shale, siliceous, grayish-black, brittle, fractured, noncalcareous-----	17	40

133-064-19DCD
 Test hole 8729
 (Log from Naplin, 1976)

Altitude:	1620 feet	Date drilled:	7/11/73
Glacial drift:			
	Sand, fine to very coarse, gravelly, subrounded, oxidized-----	6	6
	Clay, sandy, silty, pebbly, yellowish-brown, oxidized (till)-----	6	12
	Clay, silty, pebbly, olive-gray, calcareous (till)-----	41	53
Pierre Formation:			
	Shale, siliceous, grayish-black, brittle, fractured, noncalcareous-----	7	60

133-64-22DDA
(Log from Traut Wells, Inc.)

Date drilled: 9/11/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Clay, brown-----	14	14
	Shale-----	121	135

133-064-26CCC
Test hole 8728
(Log from Naplin, 1976)

Altitude: 1560 feet

Date drilled: 7/10/73

Glacial drift:			
	Topsoil, sandy, shaly, clay loam, black-----	1	1
Pierre Formation:			
	Shale, siliceous, grayish black with reddish-orange oxidation staining, brittle, noncalcareous-----	19	20

133-065-14DDA
Test hole 8730
(Log from Naplin, 1976)

Altitude: 1680 feet

Date drilled: 7/11/73

Glacial drift:			
	Clay, sandy, pebbly, cobbles, boulders, dusky-yellow, oxidized (till)-----	11	11
	Sand, fine to very coarse, subrounded, uniform, shaly, partially oxidized-----	24	35
	Clay, silty, sandy, pebbly, olive-gray, calcareous (till)-----	14	49
Pierre Formation:			
	Shale, siliceous, grayish-black, brittle, noncalcareous-----	11	60

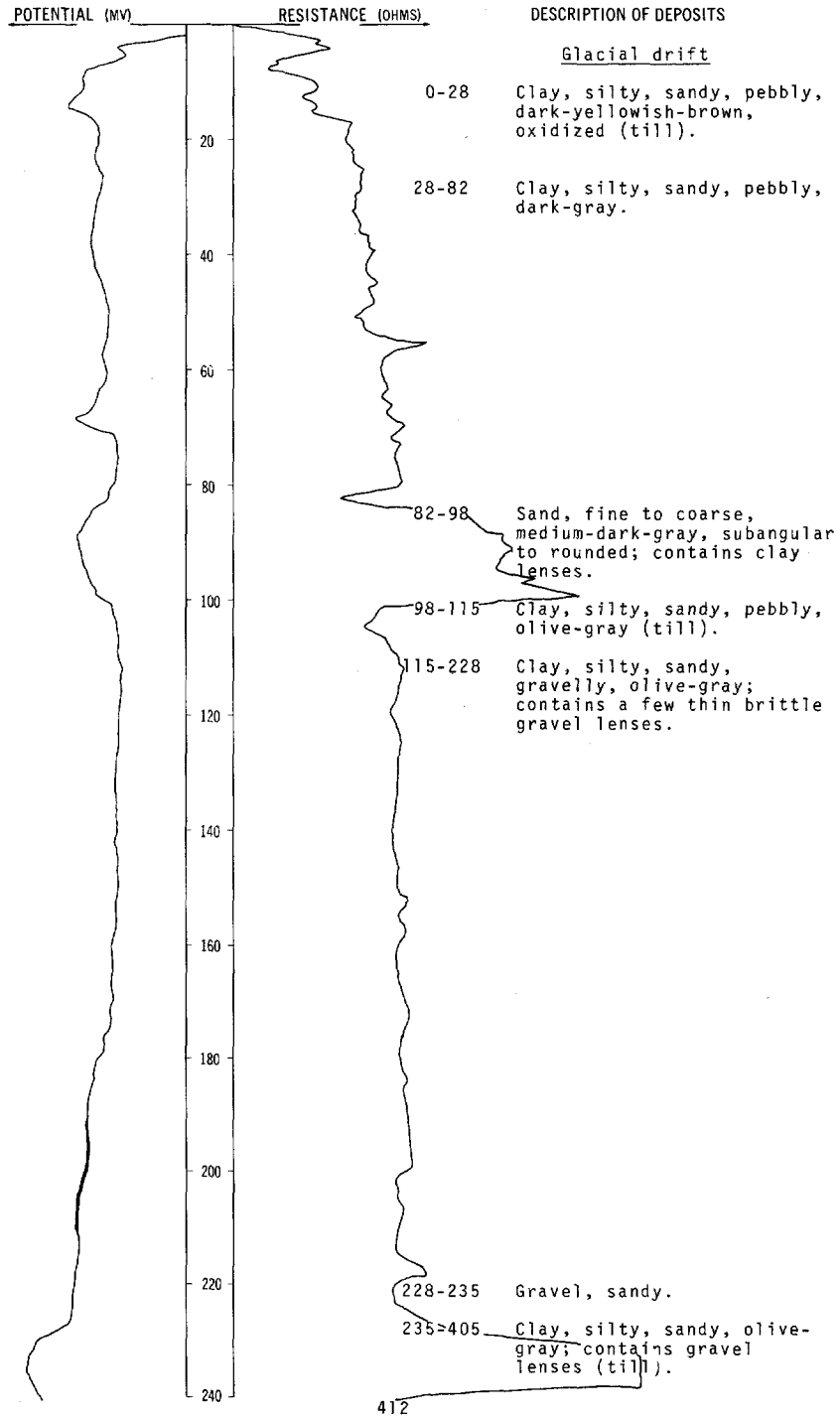
133-065-19DDC
(Log from Jacob Thurn)

Date drilled: 5/22/74

	Topsoil-----	3	3
	Sand-----	12	15
	Clay, blue-----	30	45
	Sand-----	10	55

LOCATION: 133-066-02BBB
 ALTITUDE: 1940
 (FT, MSL)

DATE DRILLED: 10/16/74
 DEPTH: 420
 (FT)



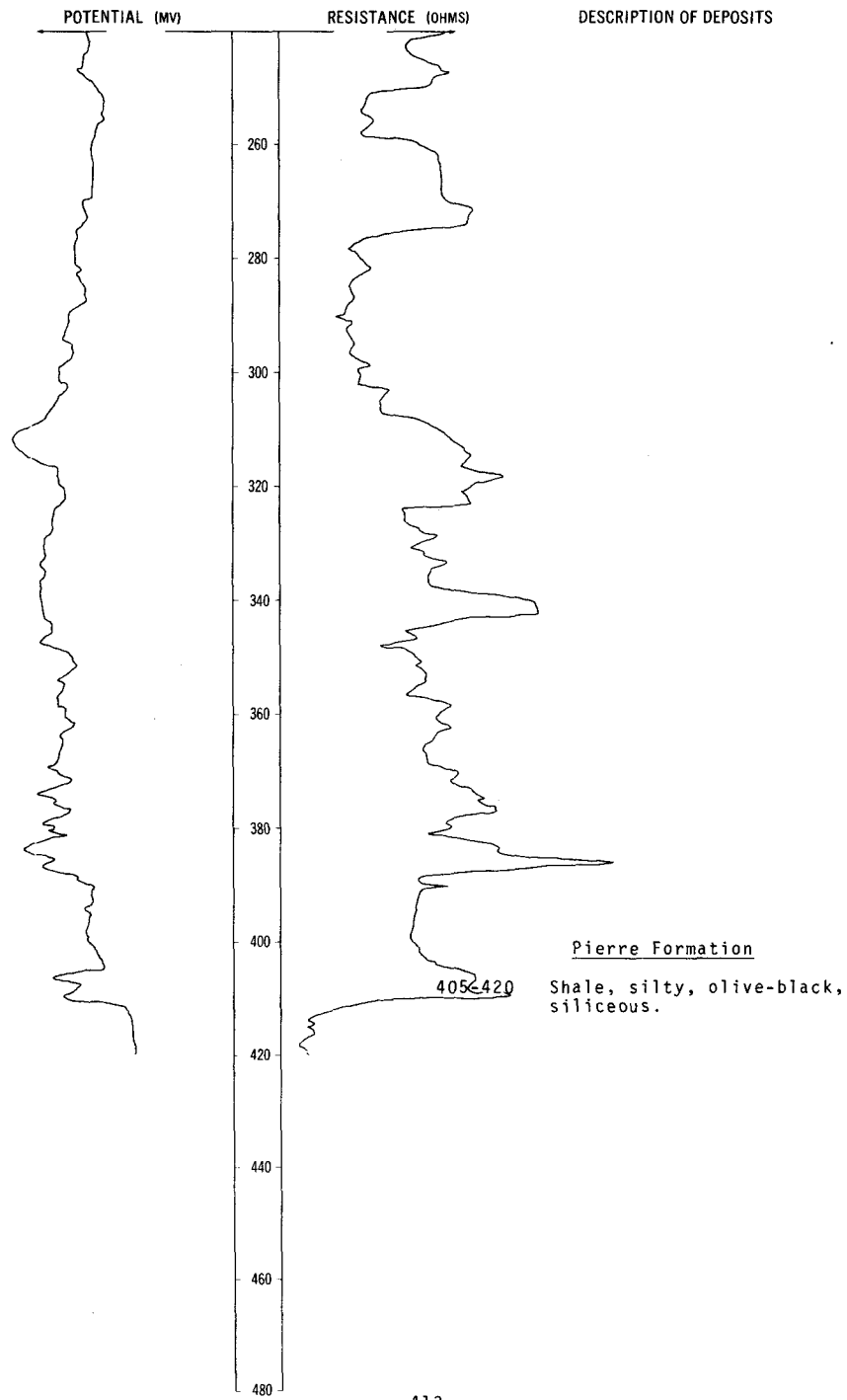
NDSWC 9169, Continued

LOCATION: 133-066-02BBB

DATE DRILLED: 10/16/74

ALTITUDE: 1940
(FT. MSL)

DEPTH: 420
(FT)



133-066-03DAC
(Log from Olson Water Wells)

Date drilled: 1974

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil-----	1	1
	Clay, yellow-----	43	44
	Clay, blue, rock from 146 to 148 feet-----	189	233
	Sand, gray-----	30	263
	Clay, blue-----	38	301
	Sand, very fine, gray-----	9	310
	Clay, blue, rock from 316 to 320 feet-----	82	392
	Sand, fine, gray-----	2	394
	Clay, blue-----	4	398
	Slate, gray-----	62	460

133-066-06BAD
(Log from Jacob Thurn)

Date drilled: 11/22/74

	Topsoil-----	3	3
	Clay, yellow-----	17	20
	Clay, blue-----	38	58
	Sand-----	5	63

133-066-16DCB
(Log from Olson Water Wells)

Date drilled: 11/14/74

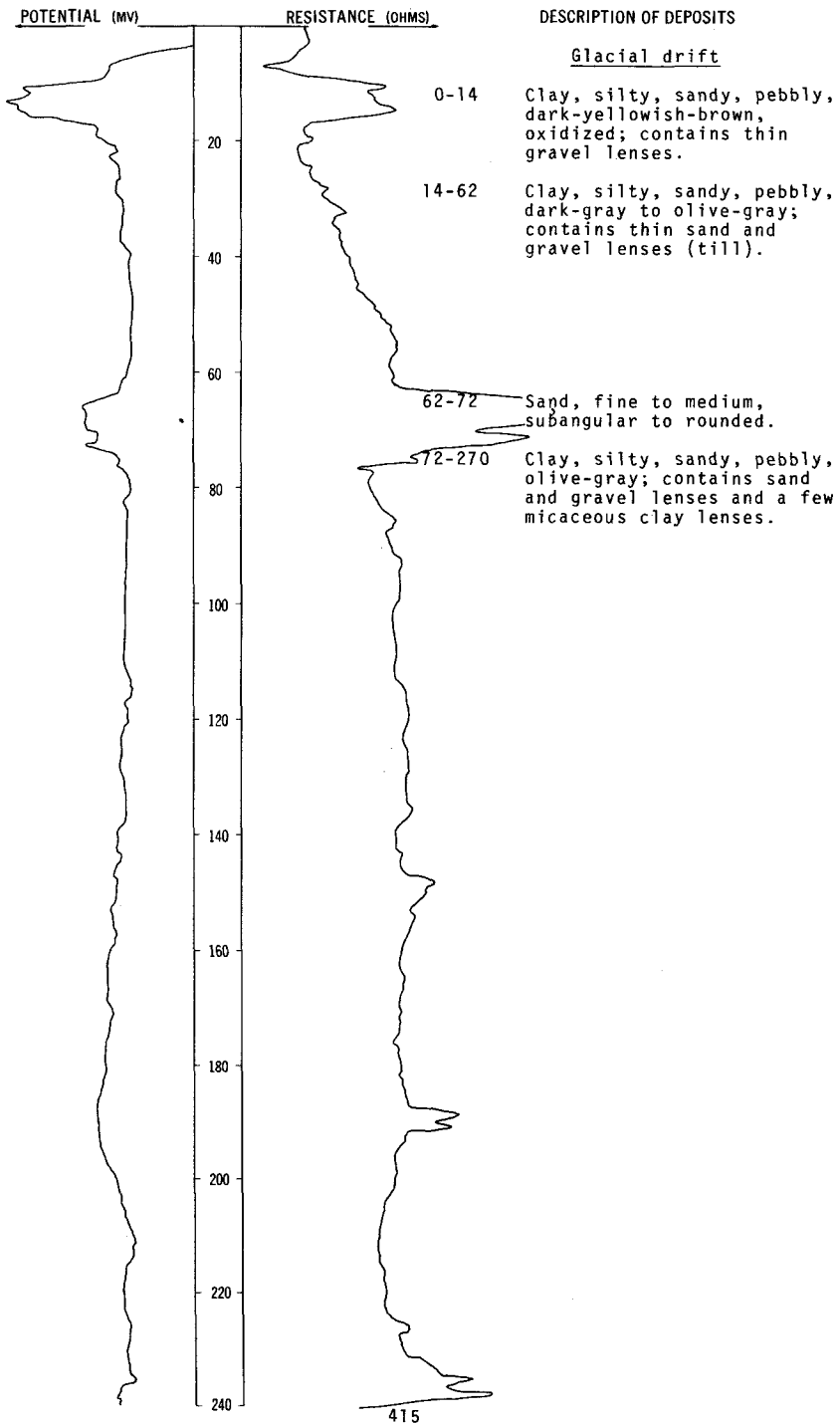
	Topsoil-----	1	1
	Clay, yellow-----	4	5
	Sand and gravel, yellow-----	14	19
	Clay, sandy, blue-----	285	304
	Clay, gray and black-----	14	318
	Clay, blue-----	72	390
	Sand, yellow and gray-----	5	395
	Clay, orange-----	1	396
	Sand, red, yellow, gray-----	8	404

LOCATION: 133-066-23DDD

DATE DRILLED: 10/15/74

ALTITUDE: 1940
(FT, MSL)

DEPTH: 440
(FT)



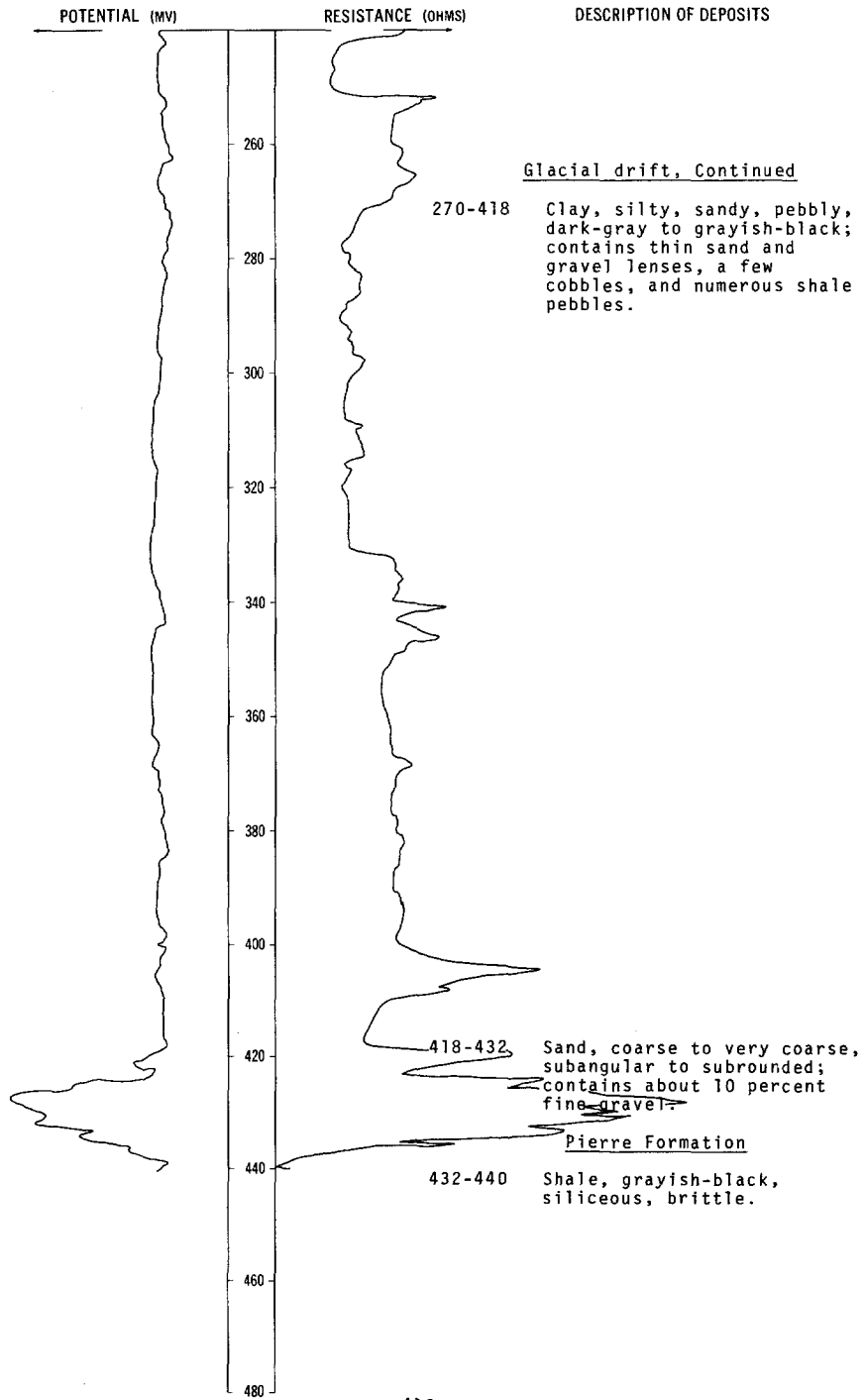
NDSWC 9167, Continued

LOCATION: 133-066-23DDD

DATE DRILLED: 10/15/74

ALTITUDE: 1940
(FT, MSL)

DEPTH: 440
(FT)



133-066-34ADB
 (Log from Jacob Thurn)

Date drilled: 11/08/74

Geologic source	Material	Thickness (feet)	Depth (feet)
	Topsoil-----	3	3
	Clay, yellow-----	15	18
	Clay, blue-----	20	38

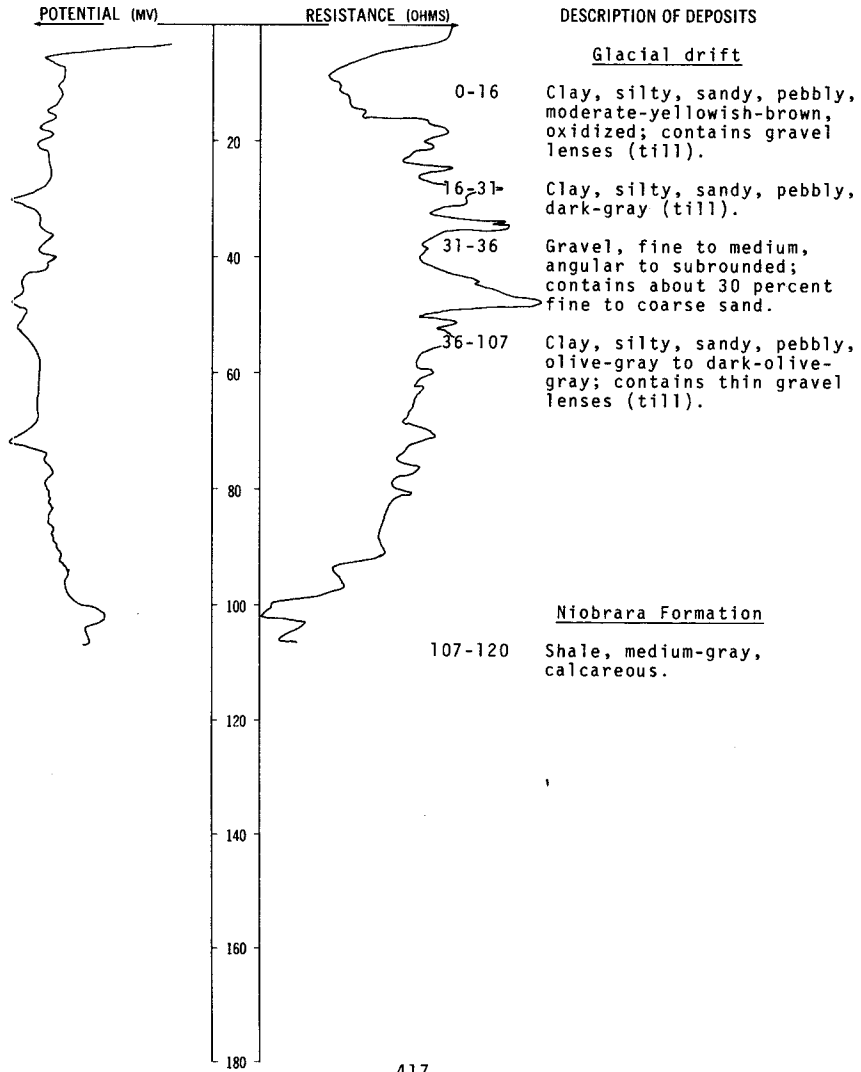
NDSWC 9212

LOCATION: 134-059-08BBB

DATE DRILLED: 11/13/74

ALTITUDE: 1407
 (FT, MSL)

DEPTH: 120
 (FT)



134-059-28000
(Log from Kamoni Well Boring)

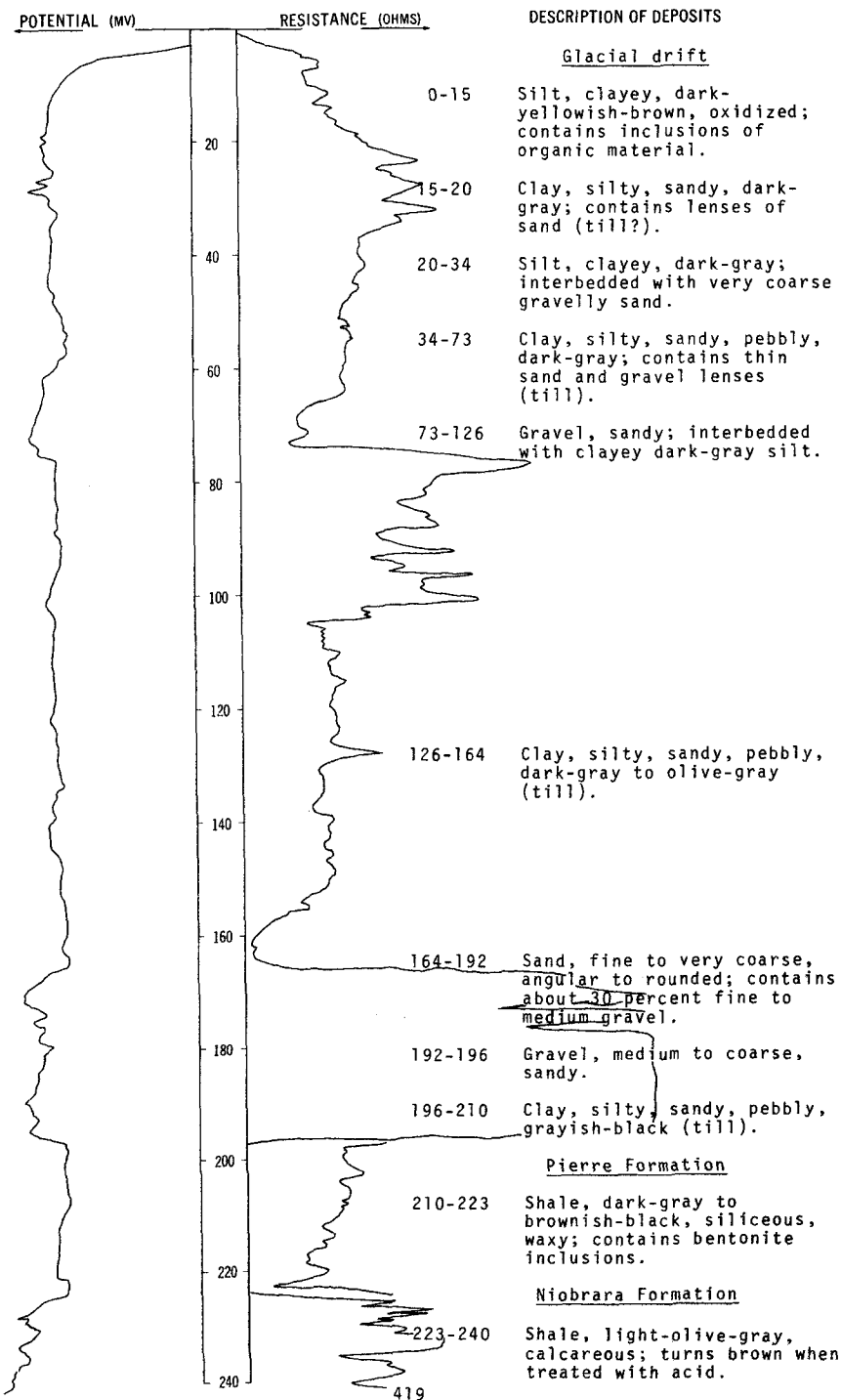
Date drilled: 9/03/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Dirt, black-----	2	2
	Clay, yellow-----	25	27
	Quicksand-----	4	31
	Clay, blue-----	4	35
	Sand, medium to fine-----	3	38
	Sand, fine, with shale particles-----	14	52

NDSWC 9208

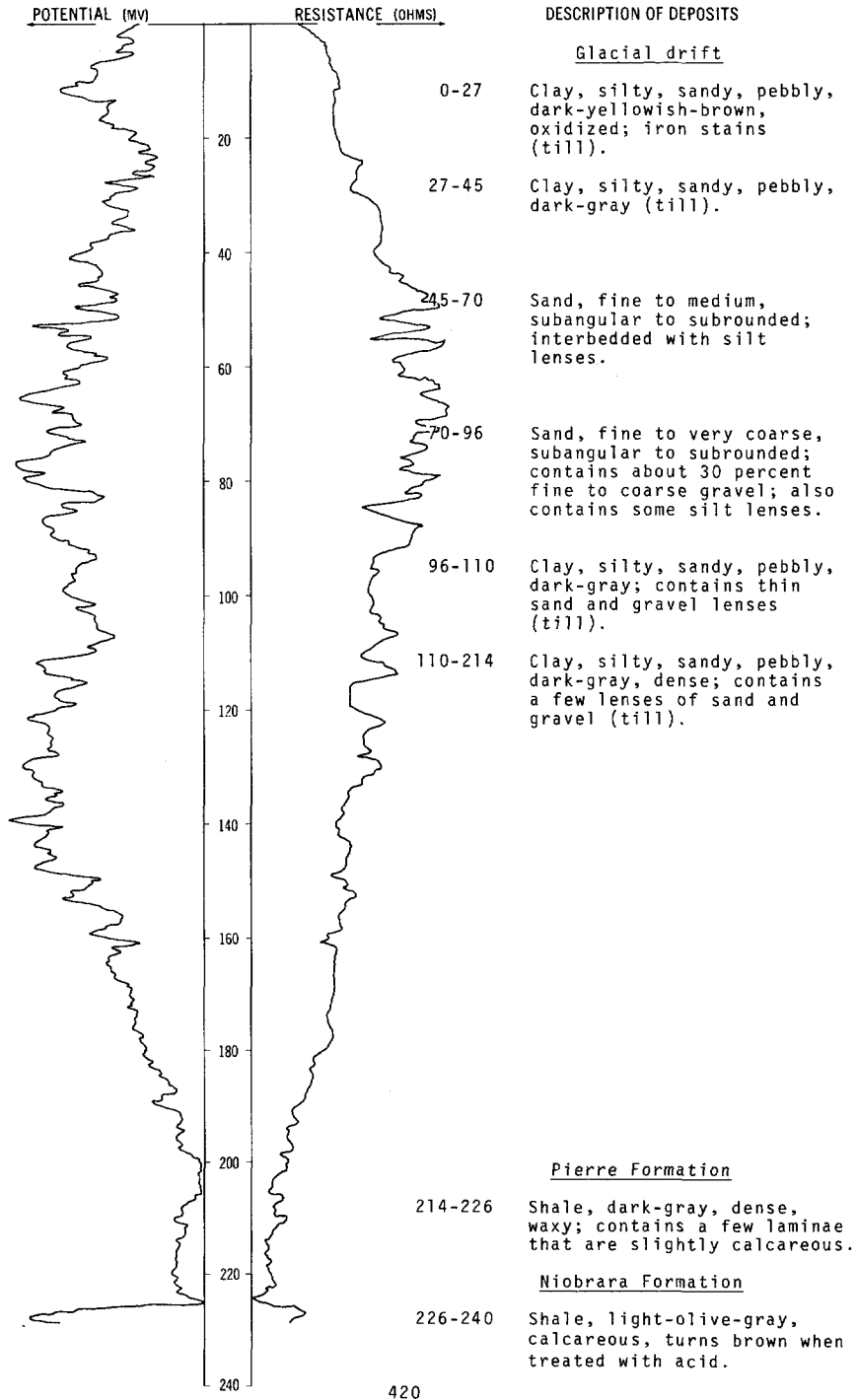
LOCATION: 134-059-31CCC
ALTITUDE: 1387
(FT, MSL)

DATE DRILLED: 11/12/74
DEPTH: 240
(FT)



LOCATION: 134-059-32DDD
 ALTITUDE: 1405
 (FT, MSL)

DATE DRILLED: 11/12/74
 DEPTH: 240
 (FT)



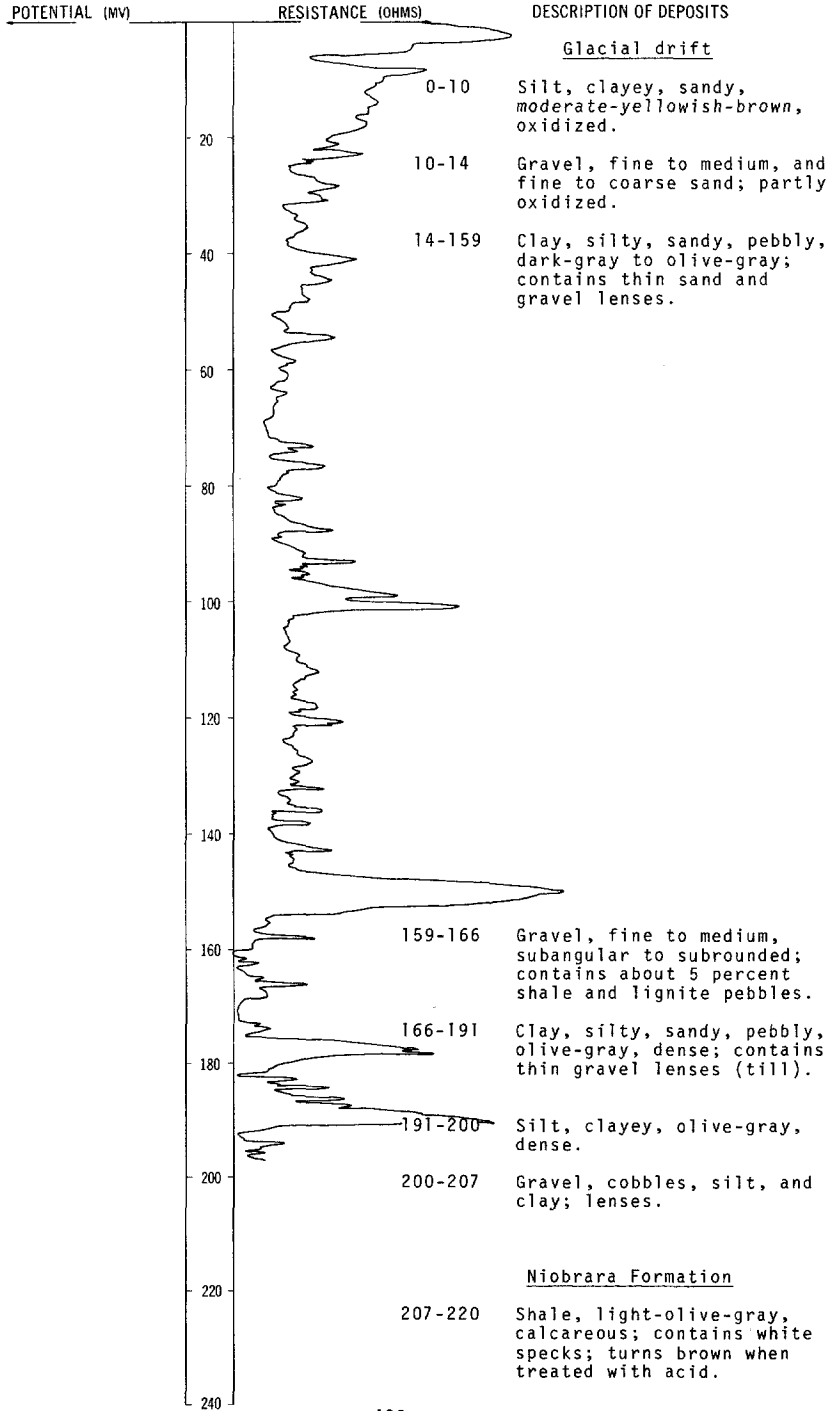
134-059-3500D
(Log from Frederickson's, Inc.)

Date drilled: 5/24/72

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	2	2
	Clay, brown-----	10	12
	Clay, sandy, brown-----	5	17
	Sand, colored-----	8	25
	Clay, sandy, brown-----	7	32
	Clay, sandy, blue-----	6	38
	Rock, blue-----	1	39
	Clay, sandy, blue-----	7	46
	Sand, silty, blue-----	2	48
	Clay, sandy, blue-----	44	92
	Clay, sandy, blue, soft-----	10	102
	Clay, sandy, blue-----	19	121
	Sand, blue-----	2	123
	Clay, sandy, blue, sand lenses-----	2	125
	Clay, sandy, blue-----	20	145
	Sand, dirty, colored-----	6	151
	Clay, sandy, blue-----	1	152
	Sand, colored, hard shale fragments-----	2	154
	Clay, sandy, blue-----	13	167
	Clay, sandy, blue, rock and sand lenses-----	5	172
	Sand, colored, hard shale and rock fragments-----	12	184
	Clay, sandy, blue-----	3	187

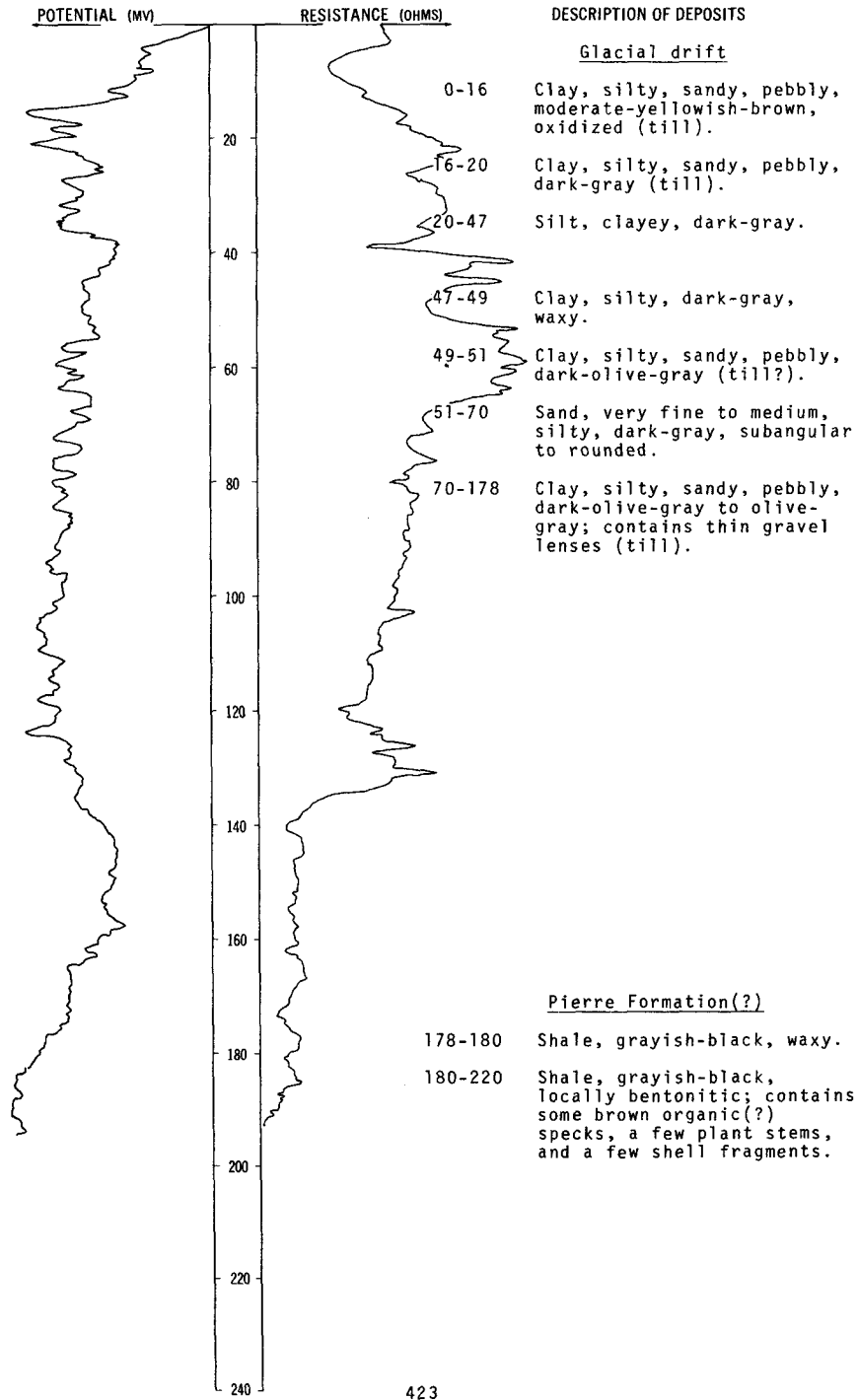
LOCATION: 134-059-36DDD
 ALTITUDE: 1384
 (FT, MSL)

DATE DRILLED: 11/13/74
 DEPTH: 220
 (FT)



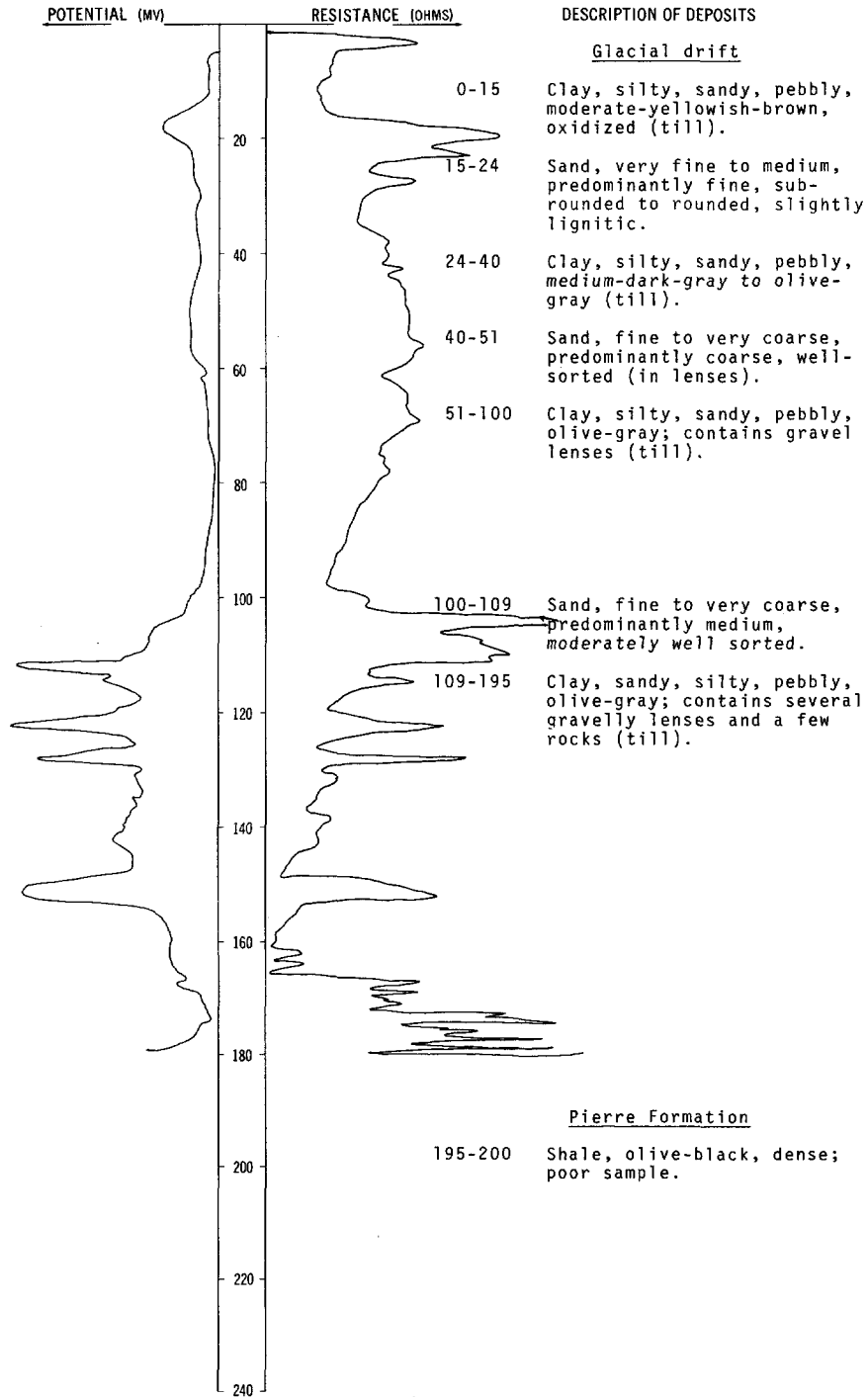
LOCATION: 134-060-02CCC
ALTITUDE: 1420
(FT, MSL)

DATE DRILLED: 11/13/74
DEPTH: 220
(FT)



LOCATION: 134-060-07BBB
 ALTITUDE: 1412
 (FT, MSL)

DATE DRILLED: 10/16/75
 DEPTH: 200
 (FT)



134-060-16888
NDSWC 9817

Altitude: 1418 feet

Date drilled: 10/14/76

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	1	1
	Clay, silty, moderate-yellowish-brown, oxidized-----	3	4
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	13	17
	Clay, silty, sandy, pebbly, olive-gray (till)-----	27	44
	Clay, sandy, pale-olive-----	2	46
	Clay, silty, sandy, pebbly, olive-gray (till)-----	65	111
	Gravel, sandy-----	2	113
	Clay, silty, sandy, pebbly, olive-gray (till)-----	43	156
Pierre Formation:			
	Shale, grayish-black, siliceous-----	24	180

134-060-16CCC
NDSWC 9818

Altitude: 1420 feet

Date drilled: 10/14/76

	Silt, sandy, moderate-yellowish-brown, oxidized-----	4	4
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	17	21
	Clay, silty, sandy, pebbly, dark-yellowish-brown, partially oxidized (till)-----	5	26
	Clay, silty, sandy, pebbly, olive-gray (till)-----	4	30
	Sand, fine to very coarse, poorly sorted; contains about 25 percent fine to medium gravel-----	5	35
	Clay, silty, sandy, pebbly, olive-gray (till)-----	10	45
	Gravel, sandy-----	2	47
	Clay, silty, sandy, pebbly, olive-gray (till)-----	67	114
	Gravel, sandy-----	2	116
	Clay, silty, sandy, pebbly, olive-gray (till)-----	18	134
	Sand, gravelly-----	4	138
	Clay, silty, sandy, shaly, pebbly, olive-gray; drilled harder from 162 to 194 feet (till)-----	56	194
	Shale, grayish-black, siliceous; locally bentonitic (block of shale from the Pierre Formation)-----	10	204
	Sand, predominantly coarse to very coarse, moderately well sorted; contains about 25 percent fine to medium gravel-----	19	223
Pierre Formation:			
	Shale, grayish-black, siliceous-----	17	240

134-060-20DDA2
(Log from Beitz Pump Service)

Date drilled: 9/03/72

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, black-----	1	1
	Clay, yellow-----	23	24
	Sand, dirty-----	2	26
	Clay, sandy, blue-----	54	80
	Gravel, coarse-----	2	82
	Clay, blue-----	68	150
	Sand, black-----	1	151

134-060-26BBB
NDSWC 9815

Altitude: 1420 feet

Date drilled: 10/13/76

	Topsoil-----	1	1
	Clay, silty, sandy, moderate-yellowish-brown-----	7	8
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	9	17
	Clay, silty, sandy, pebbly, dusky-yellowish-brown, partially oxidized (till)-----	2	19
	Clay, silty, sandy, pebbly, olive-gray (till)-----	16	35
	Sand, predominantly coarse to very coarse, poorly sorted; contains about 30 percent fine to medium gravel-----	2	37
	Clay, silty, sandy, pebbly, dark-olive-gray-----	14	51
	Sand, very fine to very coarse, gravelly-----	10	61
	Clay, silty, sandy, pebbly, olive-gray-----	113	174
	Gravel, sandy-----	2	176
	Clay, silty, sandy, olive-gray-----	6	182
	Sand, gravelly; contains thin clay lenses-----	10	192
	Sand, predominantly medium; contains about 10 percent fine gravel-----	18	210
	Sand, predominantly very coarse; contains about 40 percent fine to medium gravel; about 40 percent quartz, 20 percent shale, 20 percent carbonate, 19 percent igneous and metamorphic, and 1 percent lignite pebbles-----	24	234
Pierre Formation:			
	Shale, grayish-black, siliceous, brittle-----	17	251
Niobrara Formation:			
	Shale, brown, calcareous, moderately hard; contains white specks-----	9	260

134-060-26DCC
NDSWC 9816

Altitude: 1405 feet

Date drilled: 10/13/71

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil-----	1	1
	Clay, silty, sandy, moderate-yellowish-brown, oxidized (till)-----	4	5
	Clay, silty, sandy, pebbly, dusky-yellowish-brown, oxidized (till)-----	18	23
	Clay, silty, sandy, pebbly, olive-gray (till)-----	1	24
	Gravel, sandy, predominantly fine-----	2	26
	Clay, silty, sandy, pebbly, olive-gray (till)-----	52	78
	Sand, predominantly coarse; contains some gravel-----	2	80
	Silt, clayey, sandy, olive-gray-----	14	94
	Clay, silty, olive-gray-----	12	106
	Clay, silty, sandy, pebbly, olive-gray-----	4	110
	Gravel, sandy; with thin clay lenses-----	3	113
	Clay, silty, sandy, shaly, pebbly, olive-gray (till)-----	60	173
	Sand, predominantly very coarse, poorly sorted; contains about 35 percent fine gravel-----	14	187
	Clay-----	2	189
	Sand, predominantly very coarse, poorly sorted; contains about 35 percent fine gravel-----	34	223
	Boulder-----	2	225
Pierre Formation:			
	Shale, grayish-black, siliceous, brittle; contains light-yellowish-white bentonite zones-----	11	236
Niobrara Formation:			
	Shale, moderate-brown, calcareous; contains white specks-----	4	240

134-060-29CDD
(Log from Kamoni Well Boring)

Date drilled: 10/16/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Dirt, black-----	2	2
	Clay, yellow-----	20	22
	Clay, blue-----	17	39
	Sand, medium to fine, clean, some coarse-----	6	45

134-060-32DDD
NDSWC 9206

Altitude: 1403 feet

Date drilled: 11/07/74

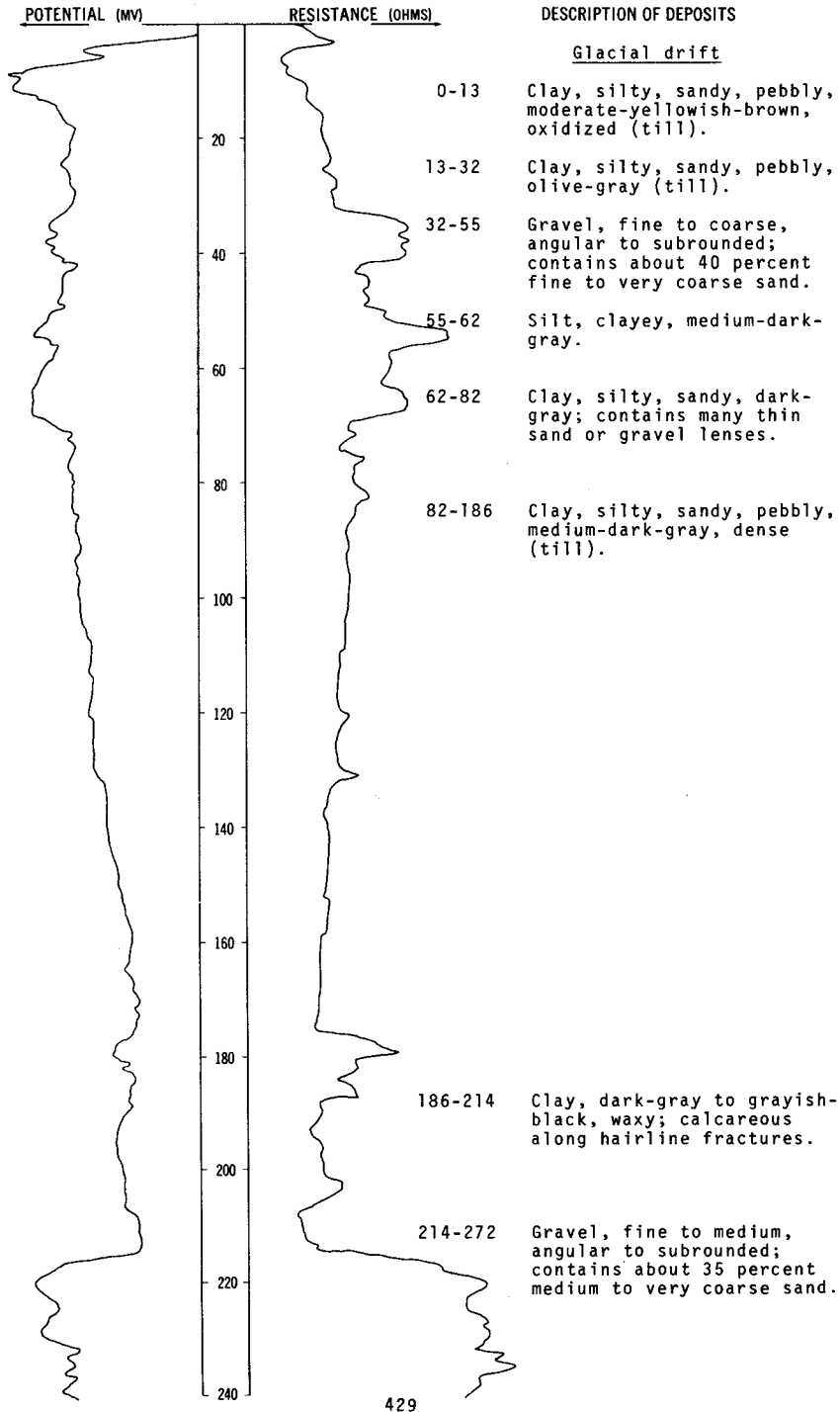
Glacial drift:			
	Topsoil, silty loam, brownish- black-----	1	1
	Clay, silty, sandy, pebbly, dark- yellowish-brown, oxidized (till)-----	26	27
	Sand, fine to coarse, subangular to rounded, iron-stained, oxidized; contains about 10 percent gravel-----	11	38
	Clay, silty, sandy, pebbly, dark- gray; contains thin gravel lenses (till)-----	22	60
	Sand, fine to coarse, dark-gray, subangular to rounded-----	12	72
	Clay, silty, sandy, pebbly, olive- gray; contains thin sand and gravel lenses-----	30	102
	Sand, fine to very coarse, angular to subrounded-----	7	109
	Clay, silty, sandy, pebbly, olive- gray; contains thin gravelly sand beds (till)-----	69	178
	Sand, medium to very coarse, angular to subrounded; contains about 40 percent fine to medium gravel-----	62	240
	Boulder and cobbles-----	6	246
	Clay, silty, sandy, pebbly, dark- gray (till?)-----	14	260
Niobrara Formation:			
	Shale, light-olive-gray, calcareous; turns brown when acidized-----	40	300

LOCATION: 134-060-35CCC

DATE DRILLED: 11/07/74

ALTITUDE: 1395
(FT, MSL)

DEPTH: 320
(FT)



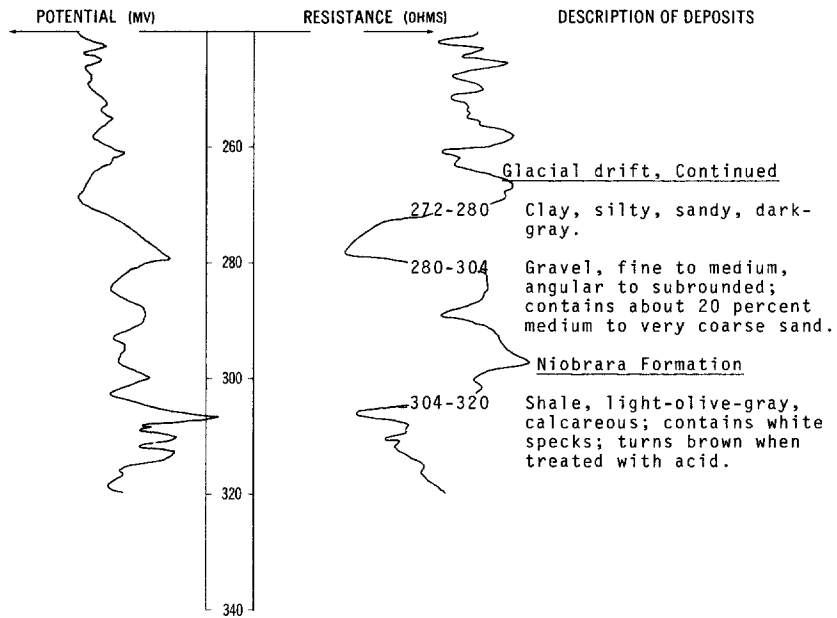
NDSWC 9207, Continued

LOCATION: 134-060-35CCC

DATE DRILLED: 11/07/74

ALTITUDE: 1395
(FT, MSL)

DEPTH: 320
(FT)



134-060-35DCB
(Log from Traut Wells, Inc.)

Date drilled: 9/22/76

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Clay, sandy, brown-----	23	23
	Clay, sandy, gray; rocks-----	84	107
	Sand and wet clay-----	83	190
	Sand, brownish-gray, 30 slot with fines-----	20	210
	Gravel and sand, dirty; clay lump-----	13	223
	Shale-----	17	240

134-060-36CAB
(Log from Traut Wells, Inc.)

Elevation: 1425 feet		Date drilled: 9/22/76	
Geologic source	Material	Thickness (feet)	Depth (feet)
	Topsoil-----	1	1
	Clay, brown, firm-----	6	7
	Clay, sandy, brown-----	28	35
	Clay, gray, soft-----	21	56
	Sand, fine, silty; 10 slot-----	51	107
	Clay, sandy, gray, firm-----	66	173
	Sand, gray; with dirty fines-----	30	203
	Sand, grayish-brown; rocks, 35 slot-----	31	234
	Shale-----	6	240

134-060-36CBB1
NDSWC 9820

Altitude: 1415 feet		Date drilled: 10/19/76	
	Topsoil-----	1	1
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	15	16
	Clay, silty, sandy, pebbly, olive- gray (till)-----	25	41
	Sand, poorly sorted-----	5	46
	Clay, silty, sandy, dusky-brown (till?)-----	18	64
	Gravel, sandy; fine sand to coarse pebbles-----	3	67
	Clay, silty, sandy, pebbly, olive- gray (till)-----	18	85
	Clay, silty, brownish-gray-----	3	88
	Clay, silty, sandy, pebbly, olive- gray (till)-----	22	110
	Sand, predominantly coarse to very coarse; contains about 35 percent fine to medium gravel-----	6	116
	Clay, silty, sandy, pebbly, olive- gray (till)-----	53	169
	Sand, fine to very coarse, predomi- nantly coarse; contains about 35 percent fine to medium gravel-----	53	222
Pierre Formation:			
	Shale, grayish-black, siliceous, brittle; contains streaks of bentonite-----	3	225
Niobrara Formation:			
	Shale, brown, calcareous; contains white specks-----	15	240

134-060-36CBB2
NDSWC 9821

Altitude: 1417 feet

Date drilled: 10/19/76

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil-----	1	1
	Gravel, sandy, moderate-yellowish-brown, oxidized-----	4	5
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized-----	3	8
	Clay, silty, sandy, pebbly, olive-gray (till)-----	11	19
	Clay, silty, olive-gray-----	7	26
	Clay, silty, sandy, pebbly, olive-gray-----	13	39
	Sand, fine to very coarse; contains about 20 percent fine to medium gravel-----	9	48
	Clay, silty, sandy, pebbly, olive-gray (till?)-----	7	55
	Gravel, sandy-----	4	59
	Sand, silty, slightly clayey, brownish-gray-----	13	72
	Clay, silty, brownish-gray-----	10	82
	Clay, silty, sandy, pebbly, olive-gray (till)-----	94	176
	Sand, fine to very coarse, predominantly coarse; contains 40 percent fine to medium gravel-----	29	205
	Clay, silty-----	5	210
	Sand, fine to very coarse, predominantly coarse; contains about 40 percent fine to medium gravel-----	14	224
Niobrara Formation:			
	Shale, brownish-gray, calcareous; contains white specks-----	16	240

134-060-36CBB3
(Log from Traut Wells, Inc.)

Date drilled: 7/27/76

	Topsoil-----	1	1
	Clay-----	19	20
	Clay and gray sand-----	170	190
	Gravel, sandy, brown, clean-----	41	231
	Clay, gray-----	4	235

134-060-36CBC
NDSWC 9819

Date drilled: 10/15/76

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil-----	1	1
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	13	14
	Clay, silty, sandy, pebbly, olive-gray-----	7	21
	Clay, silty, olive-gray-----	8	29
	Sand, fine to coarse-----	3	32
	Clay, silty, sandy, pebbly, olive-gray (till)-----	36	68
	Sand, fine to very coarse, predominantly coarse to very coarse; contains 30 percent fine to medium gravel-----	13	81
	Clay, silty, grayish-brown-----	11	92
	Sand, fine to very coarse-----	4	96
	Clay, silty, sandy, pebbly, olive-gray (till)-----	74	170
	Sand, fine to very coarse, predominantly coarse to very coarse; contains 35 percent fine to medium gravel-----	51	221
	Boulder-----	1+	222+

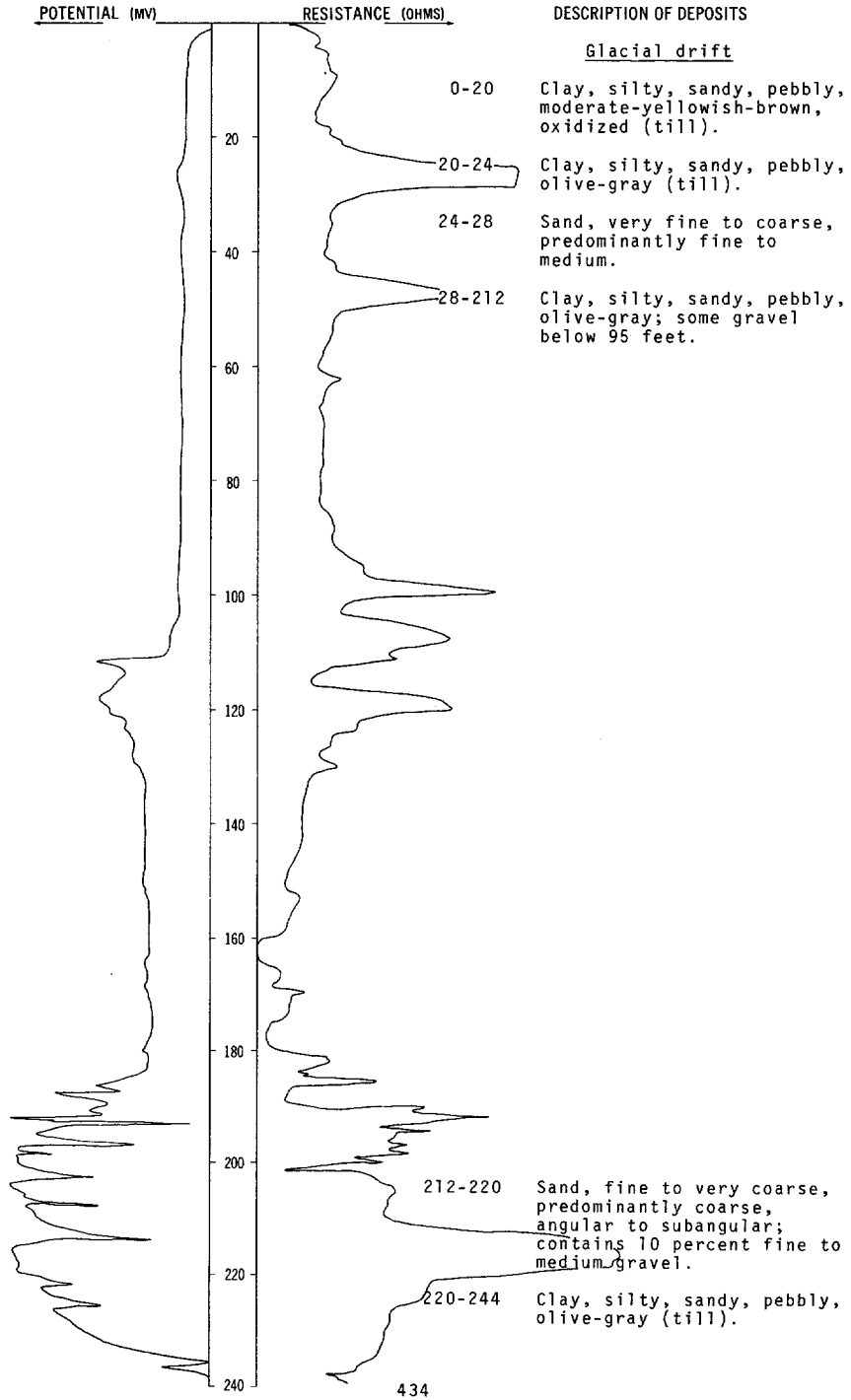
134-060-36CCB
(Log from Traut Wells, Inc.)

Date drilled: 10/07/76

	Topsoil-----	1	1
	Clay, brown-----	22	23
	Clay, sandy, gray, and rocks-----	84	107
	Clay, sandy, wet-----	83	190
	Sand, brown, clean, 30 slot-----	20	210
	Gravel, brown-----	15	225
	Shale-----	15	240

LOCATION: 134-061-03DDD
 ALTITUDE: 1423
 (FT, MSL)

DATE DRILLED: 10/15/75
 DEPTH: 280
 (FT)



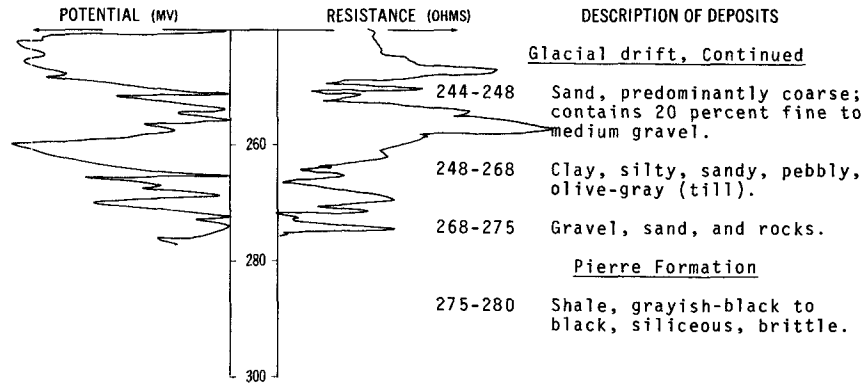
NDSWC 9479, Continued

LOCATION: 134-061-03DDD

DATE DRILLED: 10/15/75

ALTITUDE: 1423
(FT, MSL)

DEPTH: 280
(FT)



134-061-04BBB
USBR L-31

Altitude: 1319 feet

Date drilled: 8/04/67

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Loam, sandy-----	1	1
	Sand, fine, loamy-----	3	4
	Sand, coarse, loamy, well-graded-----	6	10
	Gravel, 90 percent; sand, 10 percent-----	20	30

134-061-05DCD
USBR L-27

Altitude: 1319 feet

Date drilled: 7/27/67

Glacial drift:			
	Loam, sandy-----	1	1
	Sand, coarse, loamy-----	2	3
	Sand, coarse; gravel, cobbles at 16.5 feet-----	19	22

134-061-06DDD
 USBR L-28

Altitude:	1324 feet	Date drilled:	8/01/67
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Loam, silty-----	4	4
	Clay, silty-----	10	14
	Loam, clayey, sand lenses-----	6	20
	Clay, dense-----	10	30

134-061-08AAA
 USBR L-26

Altitude:	1314 feet	Date drilled:	7/27/67
Glacial drift:			
	Loam, sandy-----	2	2
	Sand, very fine, loamy-----	2	4
	Sand, coarse-----	10	14
	Sand, very coarse, well-sorted-----	14	28

134-061-11DDD2
 (Log from Kamoni Well Boring)

		Date drilled:	9/04/74
Glacial drift:			
	Dirt, black-----	2	2
	Clay, yellow-----	28	30
	Sand, dry-----	6	36
	Sand, coarse-----	4	40
	Clay, blue-----	8	48

134-061-16AAA
 USBR L-24

Altitude:	1311 feet	Date drilled:	7/26/67
Glacial drift:			
	Loam, sandy-----	1	1
	Sand, coarse, loamy-----	3	4
	Sand, very coarse; gravel-----	26	30

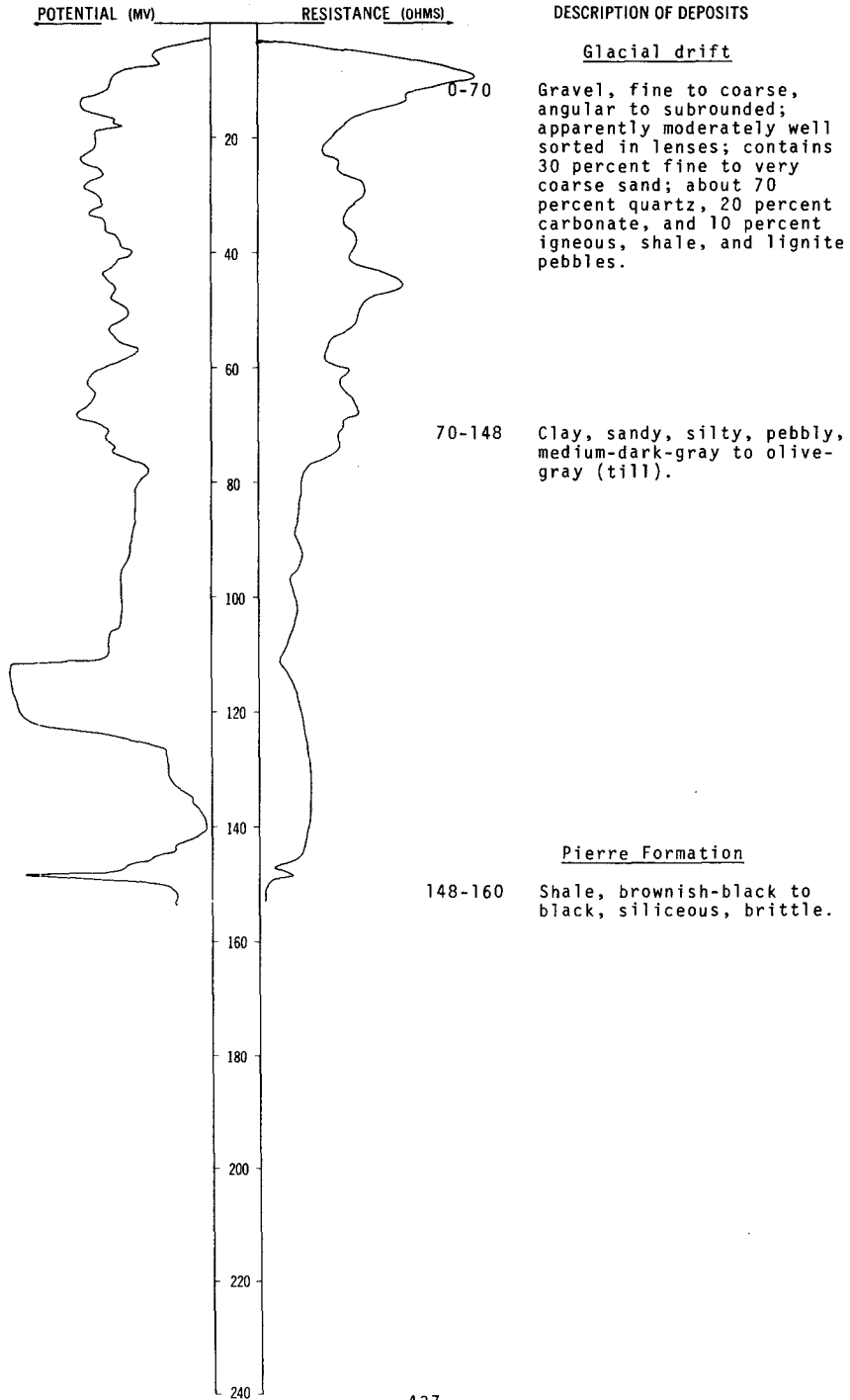
134-061-16DCD1
 (Log from Mann Drilling Co.)

		Date drilled:	3/13/72
Glacial drift:			
	Sand, fine, buff-----	18	18
	Sand and gravel-----	28	46
	Clay, silty, gray-----	4	50

NDSWC 9477

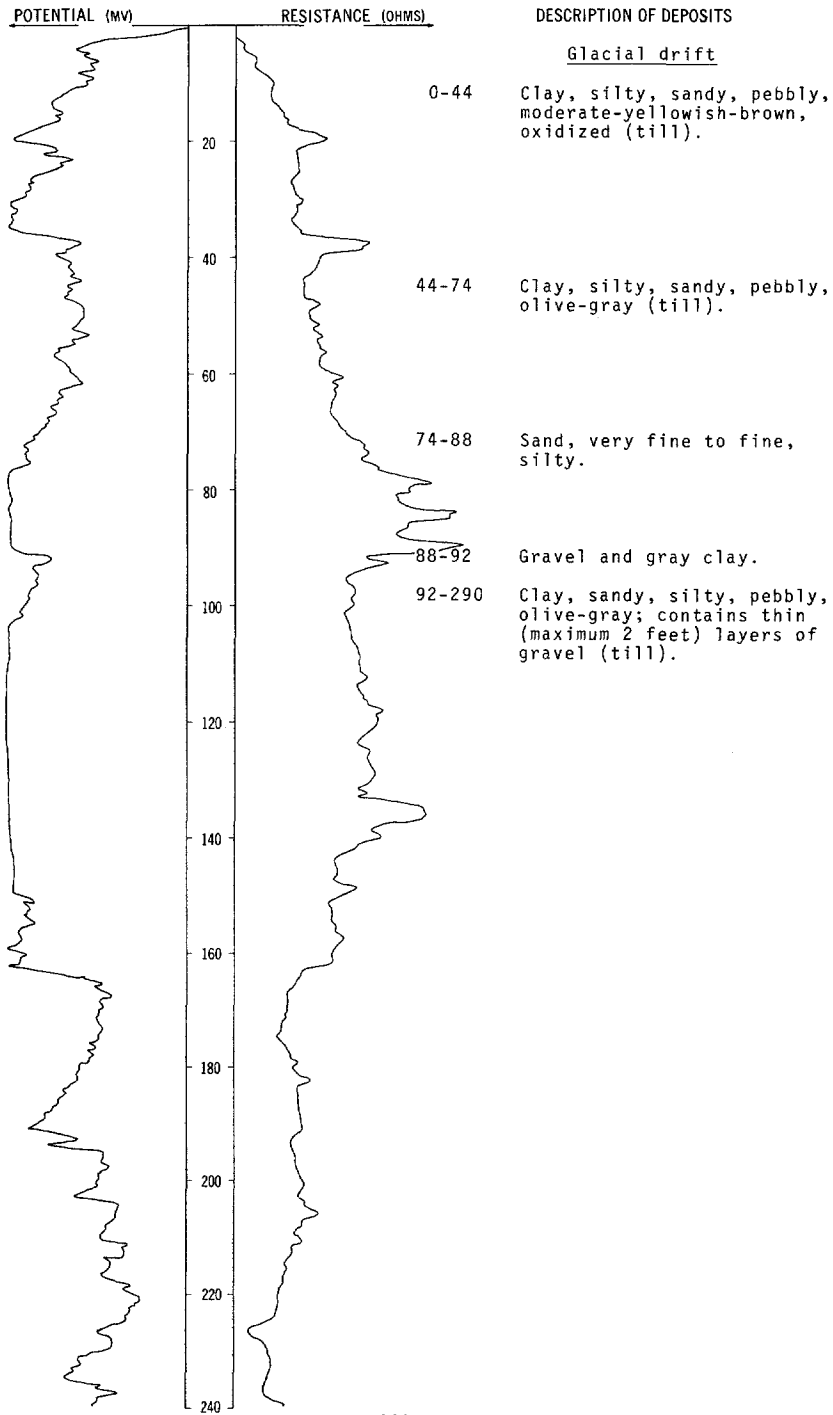
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ALTITUDE: 1316
(FT, MSL)

DATE DRILLED: 10/14/75
DEPTH: 160
(FT)



LOCATION: 134-061-18CCC
ALTITUDE: 1440
(FT, MSL)

DATE DRILLED: 6/07/76
DEPTH: 300
(FT)



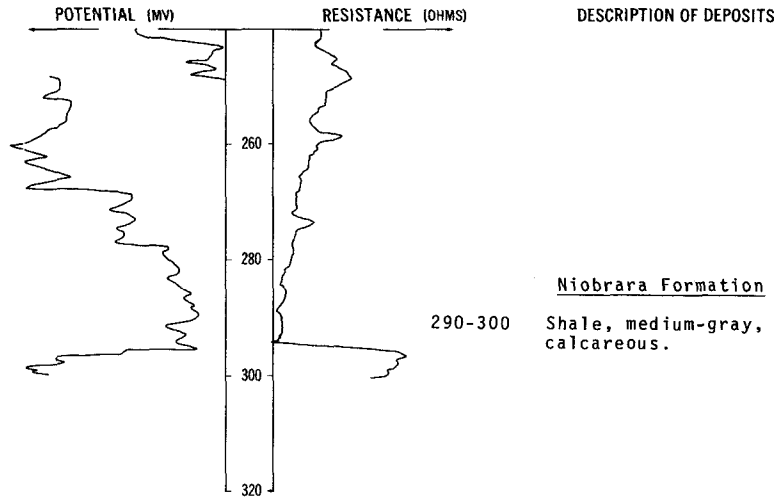
NDSWC 9582, Continued

LOCATION: 134-061-18CCC

DATE DRILLED: 6/07/76

ALTITUDE: 1440
(FT, MSL)

DEPTH: 300
(FT)



134-061-20AAA
USBR L-25

Altitude: 1336 feet

Date drilled: 7/ /67

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Loam, sandy-----	2	2
	Loam, sandy, clayey-----	4	6
	Sand, fine, loamy-----	4	10
	Sand, very fine, 10 percent shale-----	14	24

134-061-20AAC
(Log from Mann Drilling Co.)

Date drilled: 3/15/72

Glacial drift:			
	Clay, silty, buff-----	22	22
	Till, sand stringers-----	178	200

134-061-20AAD1
(Log from Traut Wells, Inc.)

Date drilled: 9/18/74

Glacial drift:			
	Clay, brown-----	28	28
	Gravel, coarse, brown-----	12	40
	Gravel, coarse, gray-----	8	48
	Silt, gray-----	2	50
	Clay, gray-----	10	60

134-061-218BB
NDSWC 9478

Altitude: 1324 feet

Date drilled: 10/14/75

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Sand, fine to very coarse, angular to subrounded; contains about 20 percent fine to coarse gravel; contains about 60 percent carbonate, 30 percent shale, and 10 percent igneous and quartz grains and pebbles-----	18	18
	Gravel, fine to coarse, angular to subangular; contains about 30 percent fine to very coarse sand-----	5	23
	Clay, sandy, silty, pebbly, medium-dark-gray to olive-gray (till)-----	17	40

134-061-21DAA
NDSWC 9476

Altitude: 1316 feet

Date drilled: 10/14/75

	Gravel, fine to coarse, angular to subrounded; contains some moderately well sorted lenses; contains about 25 percent fine to very coarse sand-----	55	55
	Clay, sandy, silty, pebbly, medium-dark-gray to olive-gray (till)-----	25	80

134-061-21DBD1
(Log from Mann Drilling Co.)

Date drilled: 3/13/72

Glacial drift:			
	Sand, silty, buff-----	26	26
	Sand and gravel-----	25	51
	Clay, silty-----	9	60

134-061-22BCA
(Log from Traut Wells, Inc.)

Date drilled: 9/19/74

Glacial drift:			
	Sand, brown-----	39	39
	Sand, gray-----	13	52
	Clay, gray-----	8	60

134-061-22BDD
(Log from Traut Wells, Inc.)

Date drilled: 9/19/74

Glacial drift:			
	Sand, brown-----	55	55
	Sand, gray-----	17	72
	Clay, gray-----	8	80

134-061-26AAA
USBR L-23

Altitude: 1314 feet Date drilled: 7/26/67

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Loam, sandy-----	2	2
	Sand, fine, loamy-----	8	10
	Sand, coarse, well-sorted-----	5	15
	Sand, coarse; 20 percent shale-----	15	30

134-061-26CCC
NDSWC 9475

Altitude: 1350 feet Date drilled: 10/13/75

Glacial drift:			
	Sand, fine to very coarse, predominantly coarse; contains about 10 percent fine to coarse angular to subangular gravel-----	40	40
	Sand, fine to very coarse, predominantly coarse; contains about 40 percent fine to coarse gravel-----	36	76
	Clay, sandy, silty, medium-dark-gray to olive-gray-----	13	89
	Clay, silty, sandy, pebbly, olive-gray-----	110	199
Niobrara Formation:			
	Shale, silty, sandy, medium-gray to brownish-gray, calcareous; turns brown when acidized-----	21	220

134-061-34AAA
USBR L-22

Altitude: 1351 feet Date drilled: 7/25/67

Glacial drift:			
	Loam, sandy-----	2	2
	Sand, coarse, sorted-----	33	35

134-061-34ACA
(Log from Traut Wells, Inc.)

Date drilled: 8/22/74

Glacial drift:			
	Sand, fine, brown-----	25	25
	Sand, coarse, brown-----	5	30
	Clay, gray-----	10	40
	Sand, fine, gray-----	10	50
	Sand, gray-----	28	78

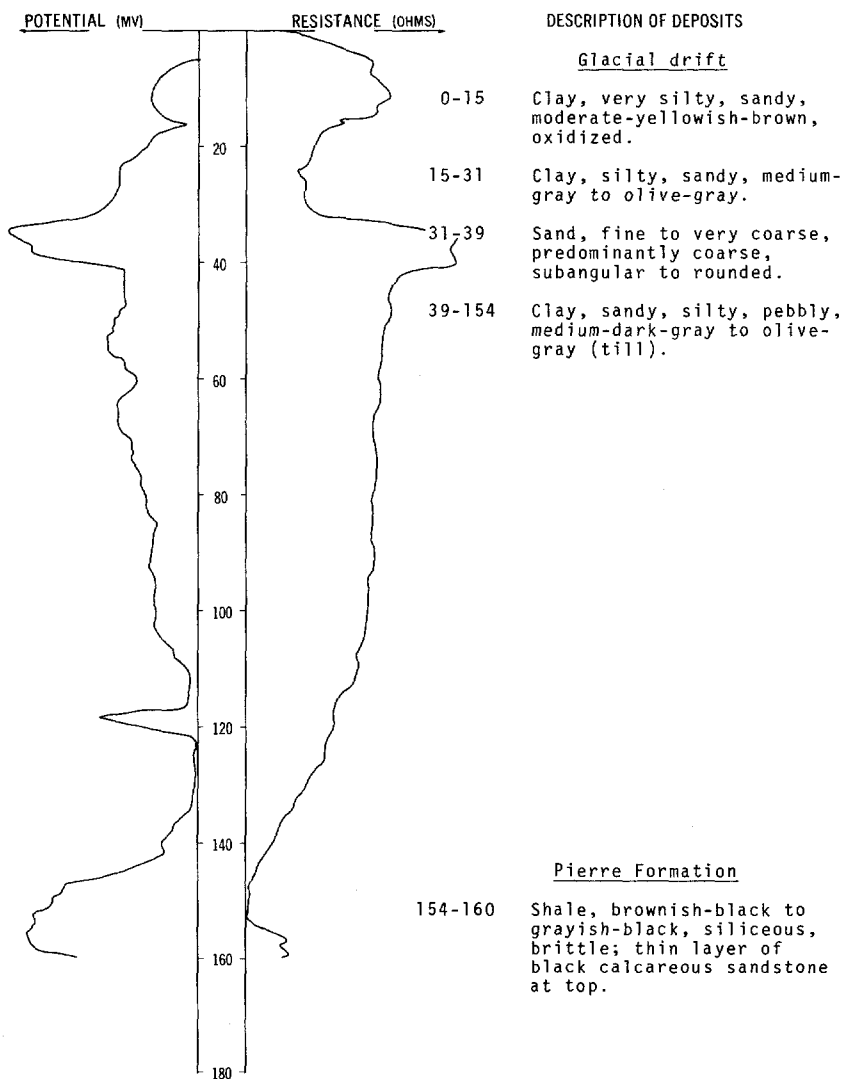
134-061-34DDD
USBR L-19

Altitude: 1305 feet Date drilled: 7/24/67

Glacial drift:			
	Clay, silty-----	6	6
	Silt, dense-----	7	13
	Loam, fine, sandy-----	2	15
	Clay, silty, very dense-----	5	20

LOCATION: 134-061-35CCC
 ALTITUDE: 1302
 (FT, MSL)

DATE DRILLED: 10/10/75
 DEPTH: 160
 (FT)



134-061-35DDD
 USBR L-21

Altitude: 1307 feet

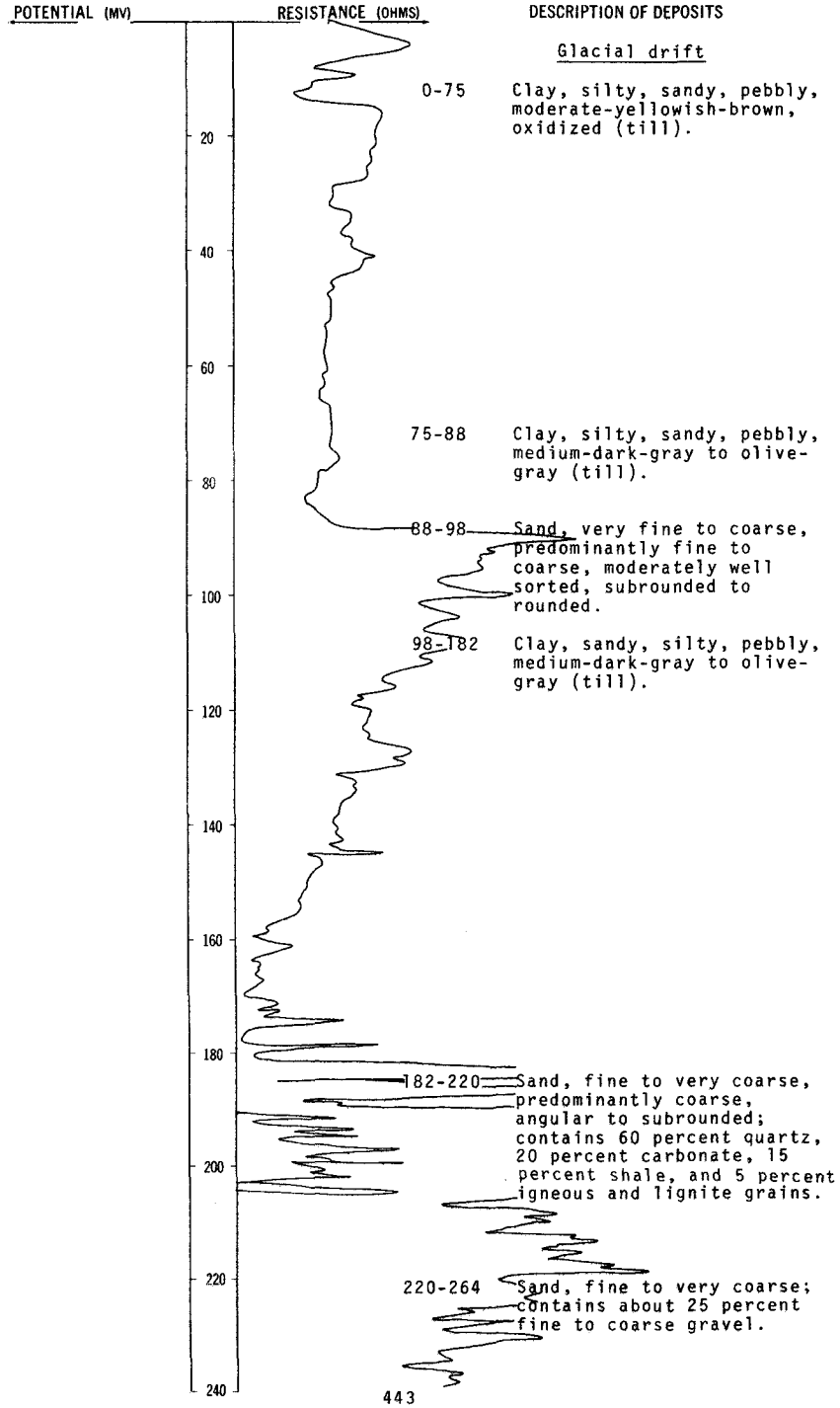
Date drilled: 7/25/67

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
<u>Glacial drift:</u>			
	Clay, silty, limey-----	6	6
	Sand, very fine, foamy-----	2	8
	Clay, silty; sand lenses-----	7	15
	Clay, dense-----	5	20

NDSWC 9490

LOCATION: 134-062-03000
 ALTITUDE: 1462
 (FT. MSL)

DATE DRILLED: 11/04/75
 DEPTH: 280
 (FT)



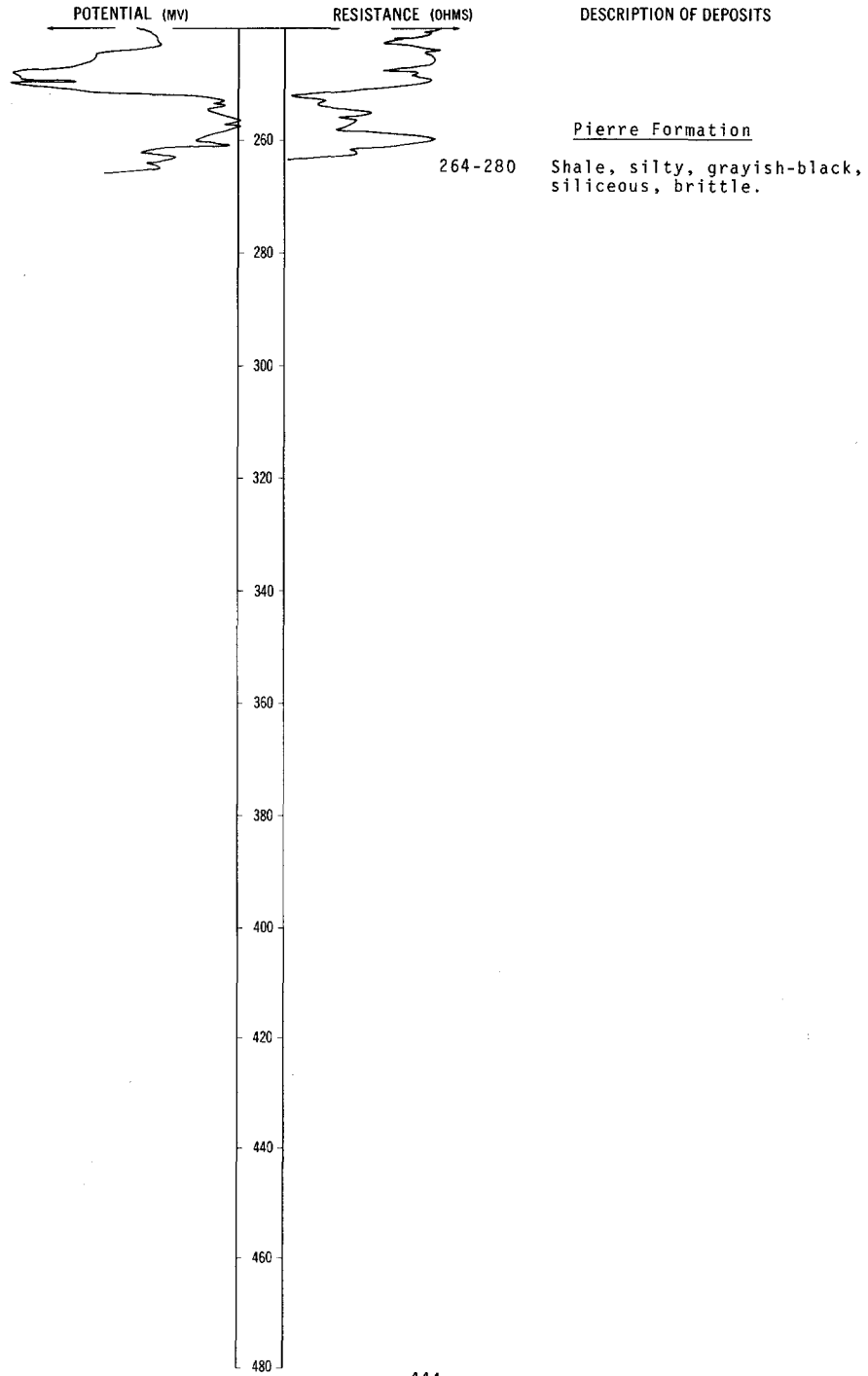
NDSWC 9490, Continued

LOCATION: 134-062-03DDD

DATE DRILLED: 11/04/75

ALTITUDE: 1462
(FT, MSL)

DEPTH: 280
(FT)

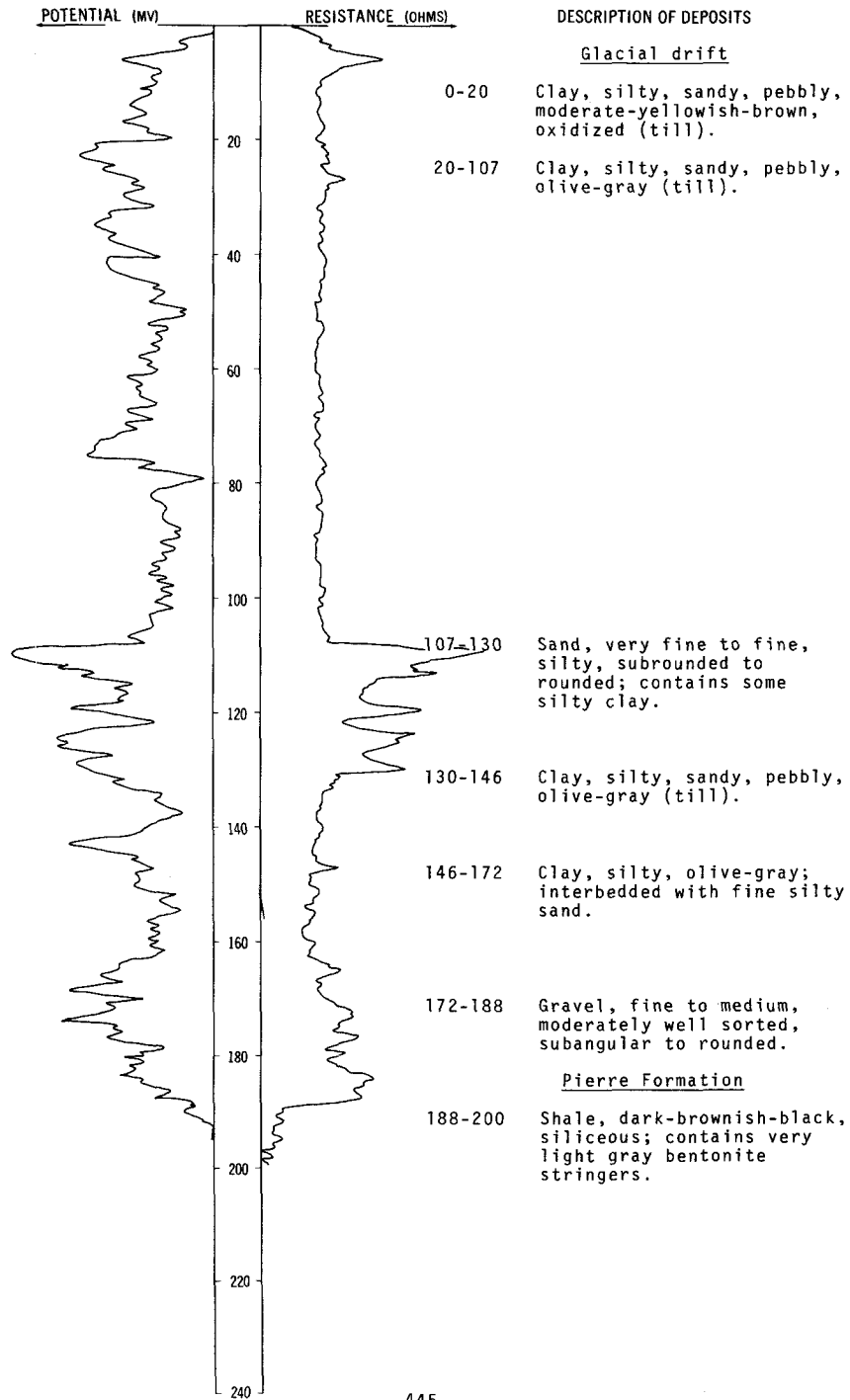


LOCATION: 134-062-07DDD

DATE DRILLED: 6/07/76

ALTITUDE: 1480
(FT, MSL)

DEPTH: 200
(FT)



134-062-29DDD1
(Log from Traut Wells, Inc.)

Date drilled: 10/10/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Clay, brown-----	33	33
	Clay, gray-----	62	95
	Sand, gray, shale-----	75	170

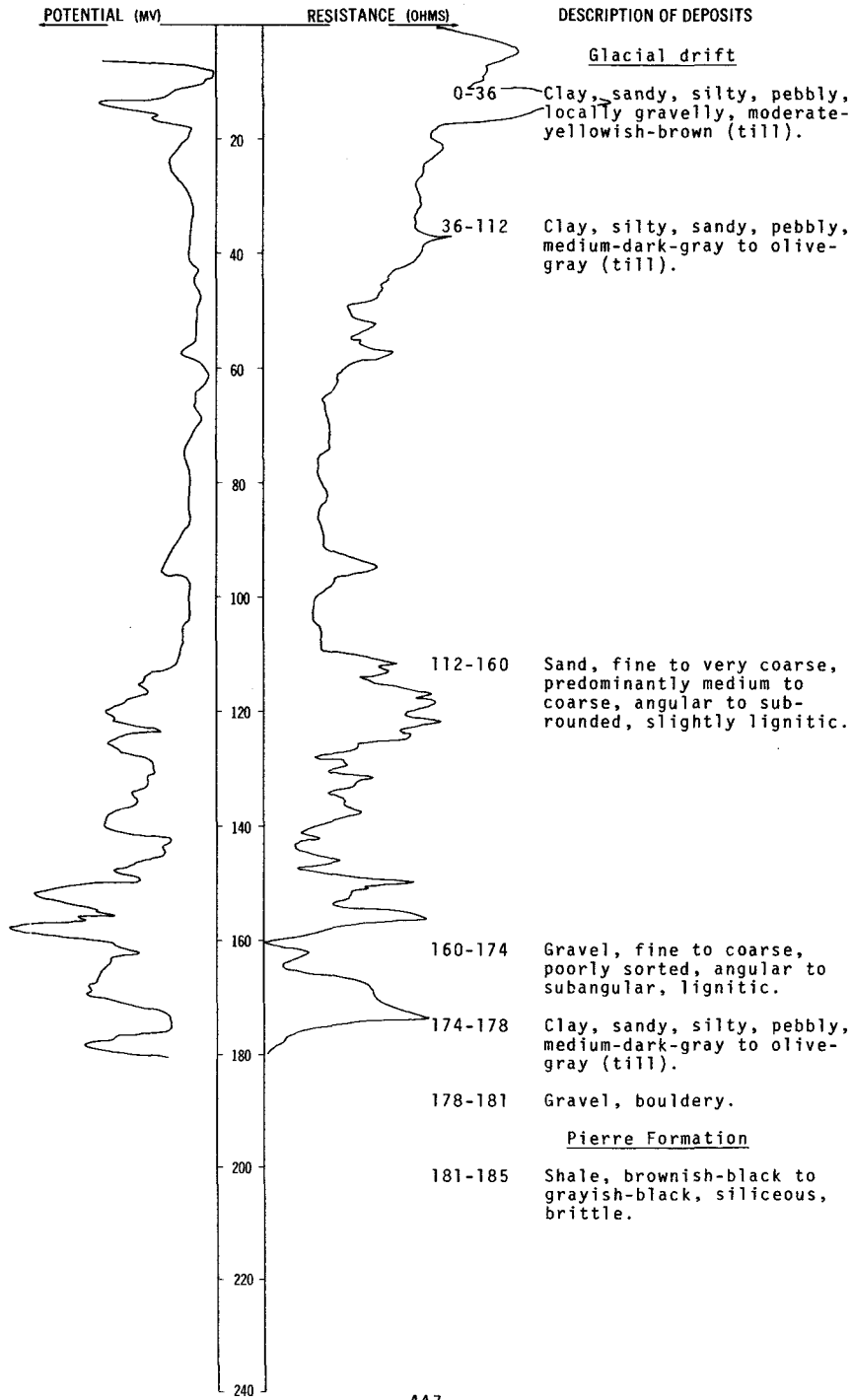
134-062-33BDB
(Log from Traut Wells, Inc.)

Date drilled: 6/17/75

	Clay, brown-----	22	22
	Clay, gray-----	11	33
	Clay, sandy, brown-----	5	38
	Sand, brown, gray-----	72	110
	Sand, brown, gray with lignite-----	22	132

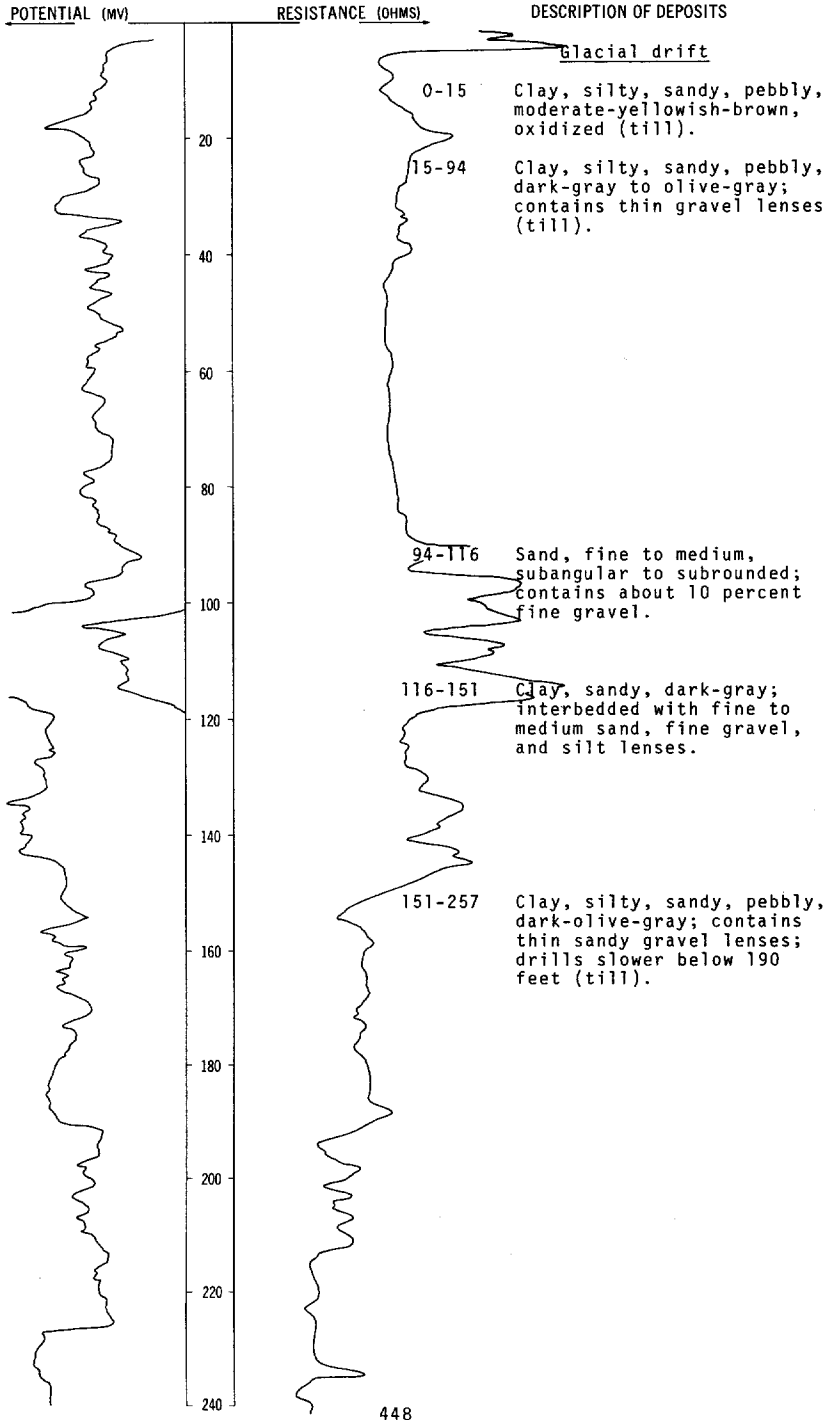
LOCATION: 134-062-33CBB
 ALTITUDE: 1471
 (FT, MSL)

DATE DRILLED: 10/10/75
 DEPTH: 185
 (FT)



LOCATION: 134-062-35CCC
ALTITUDE: 1460
(FT, MSL)

DATE DRILLED: 11/05/74
DEPTH: 280
(FT)



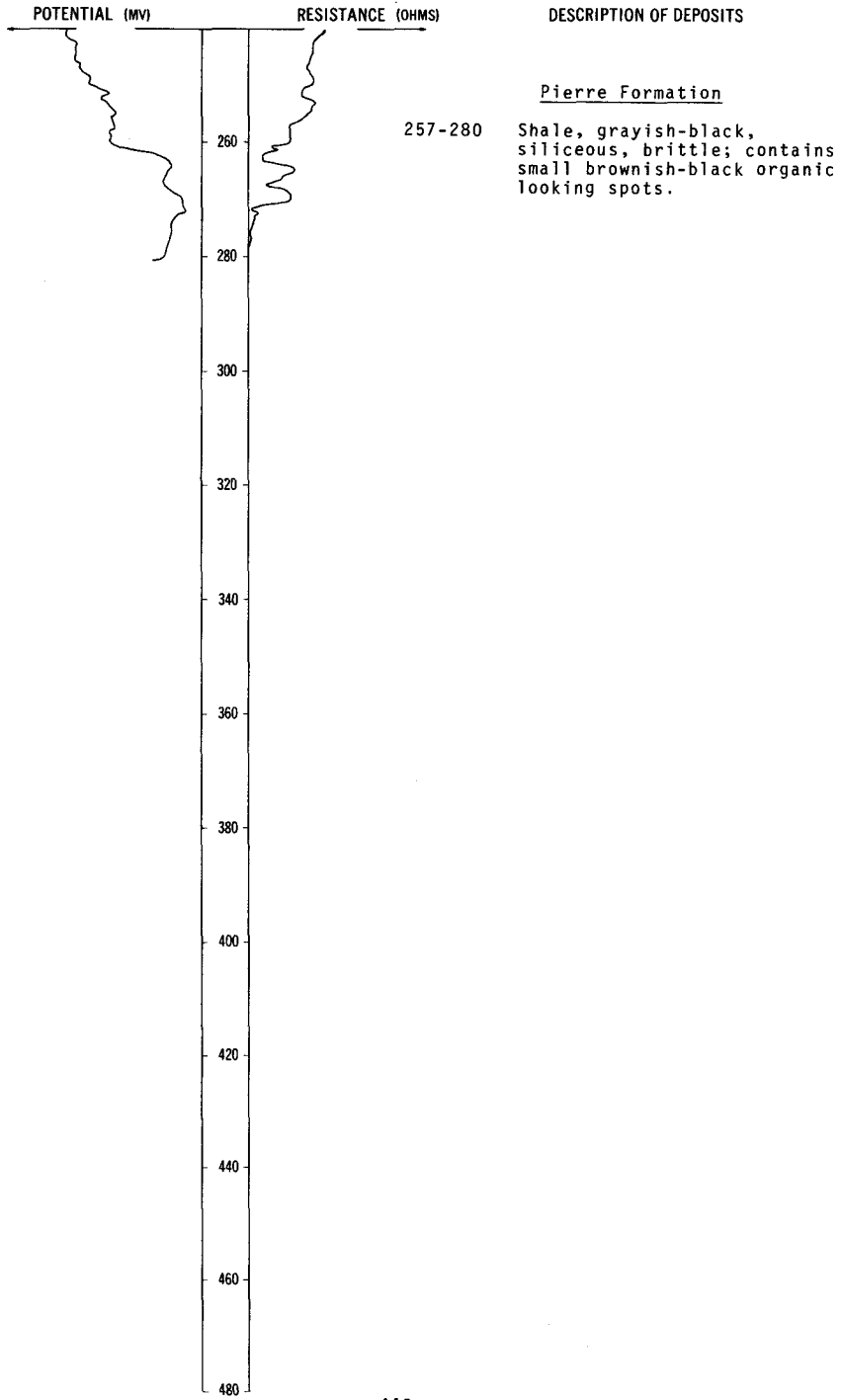
NDSWC 9201, Continued

LOCATION: 134-062-35CCC

DATE DRILLED: 11/05/74

ALTITUDE: 1460
(FT, MSL)

DEPTH: 280
(FT)



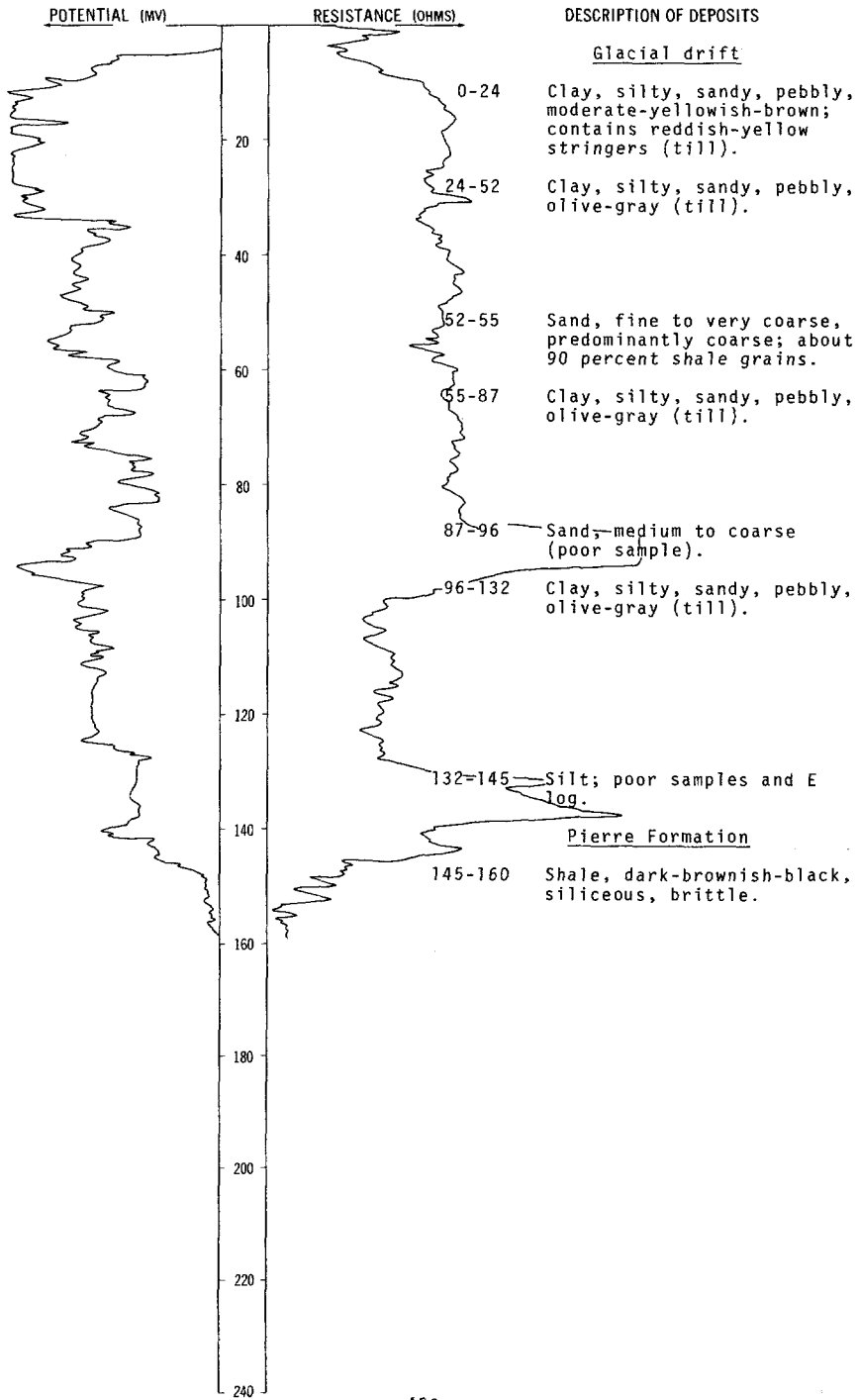
NDSWC 9575

LOCATION: 134-063-05DDA

DATE DRILLED: 6/02/76

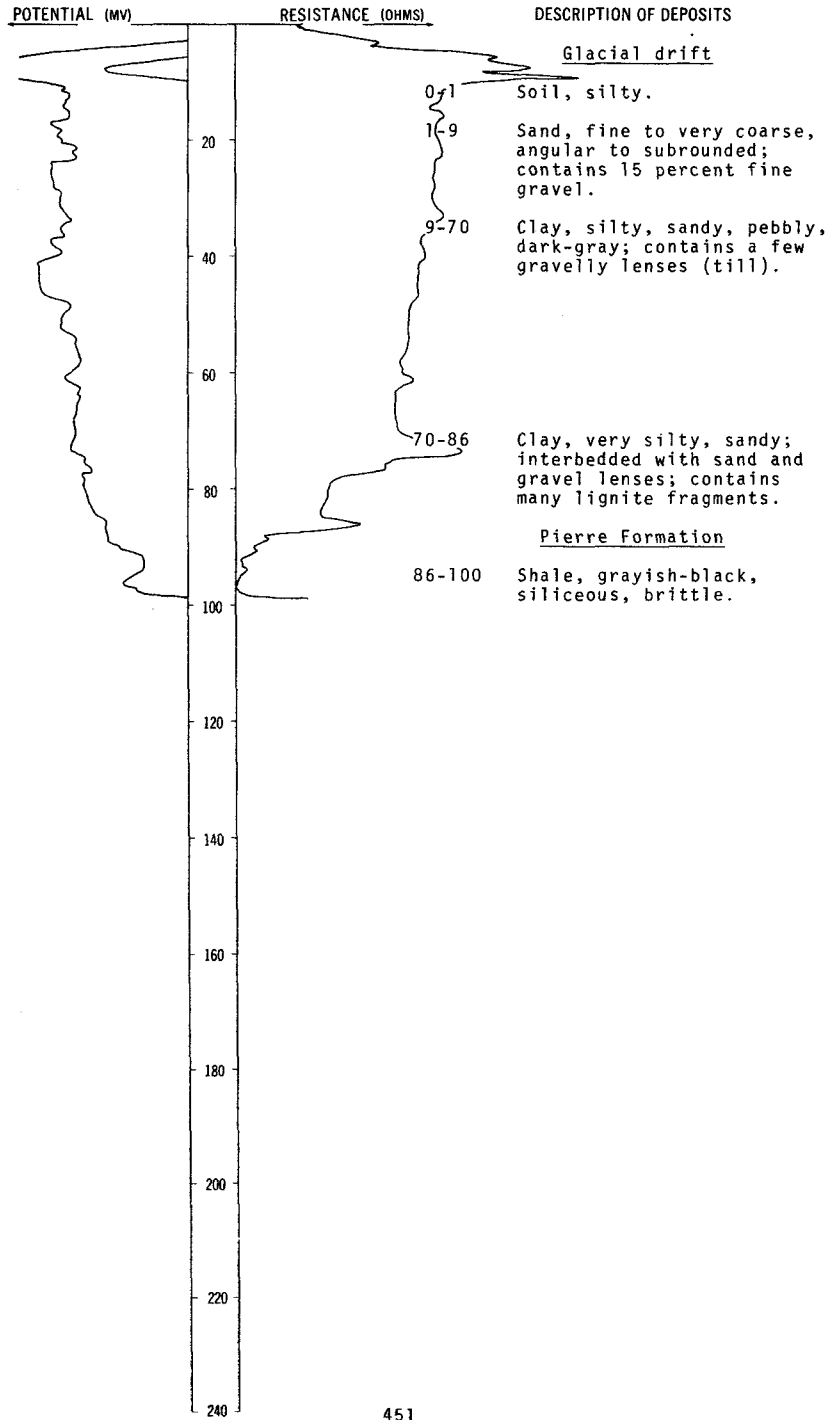
ALTITUDE: 1450
(FT, MSL)

DEPTH: 160
(FT)



LOCATION: 134-063-14CCC
ALTITUDE: 1480
(FT, MSL)

DATE DRILLED: 11/04/74
DEPTH: 100
(FT)



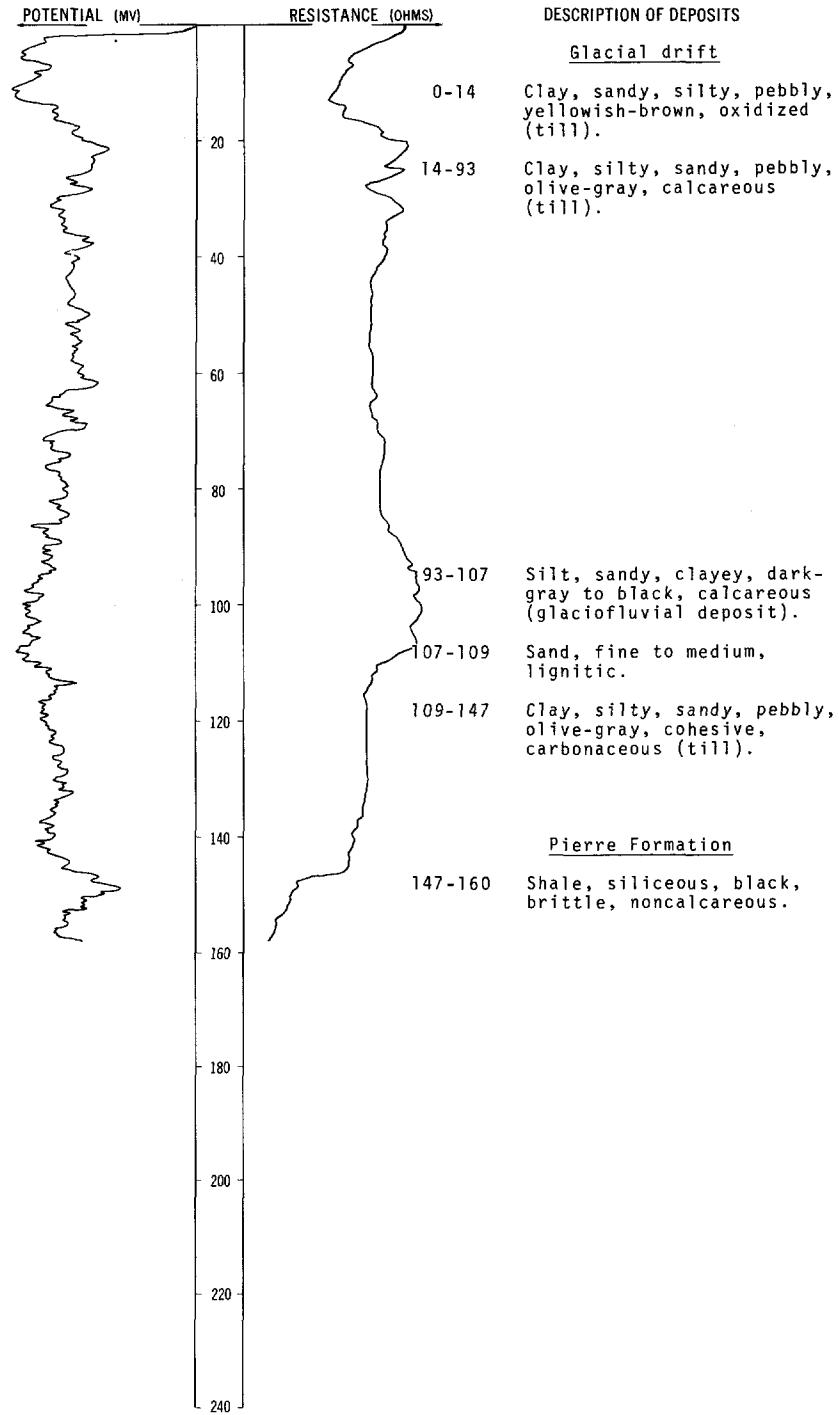
Test hole 8706
(Log from Naplin, 1976)

LOCATION: 134-063-16CCC

DATE DRILLED: 6/21/73

ALTITUDE: 1510
(FT, MSL)

DEPTH: 160
(FT)



134-063-31BBB
 Test hole 8707
 (Log from Naplin, 1976)

Altitude: 1540 feet Date drilled: 6/21/73

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, silty, sandy, pebbly, yellowish-brown, oxidized (till)-----	14	14
	Clay, silty, pebbly, olive-gray, calcareous (till)-----	33	47
Pierre Formation:			
	Shale, siliceous, dark-gray to grayish-black, brittle, fractured, noncalcareous-----	13	60

134-063-31DDD
 Test hole 8701
 (Log from Naplin, 1976)

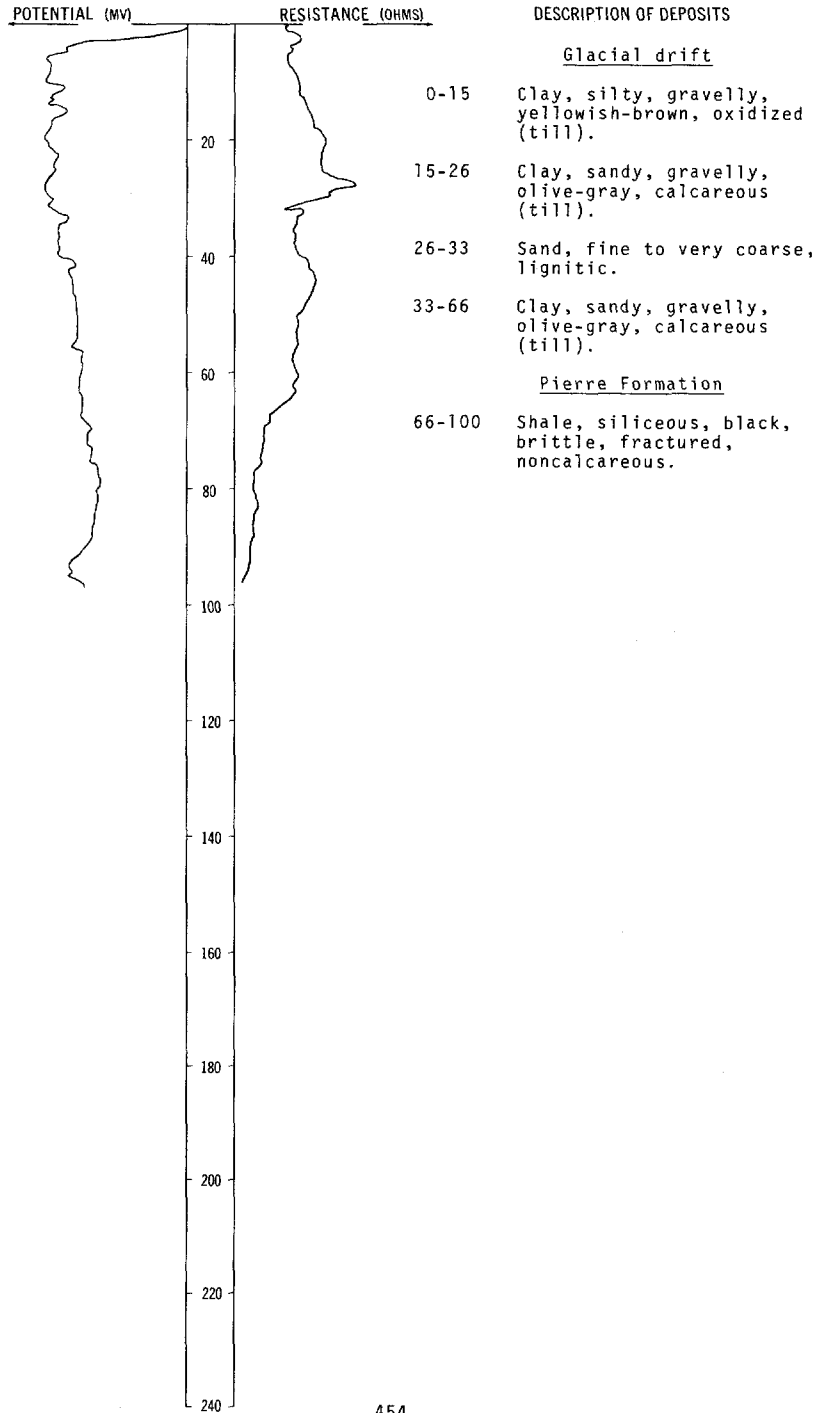
Altitude: 1525 feet Date drilled: 6/20/73

Glacial drift:			
	Clay, silty, sandy, pebbly, gravelly, yellowish-brown, oxidized (till)-----	20	20
	Clay, silty, gravelly, olive-gray (till)-----	15	35
Pierre Formation:			
	Shale, black, brittle, fractured, noncalcareous-----	25	60

Test hole 8703
(Log from Naplin, 1976)

LOCATION: 134-063-34CCC
 ALTITUDE: 1510
 (FT, MSL)

DATE DRILLED: 6/20/73
 DEPTH: 100
 (FT)



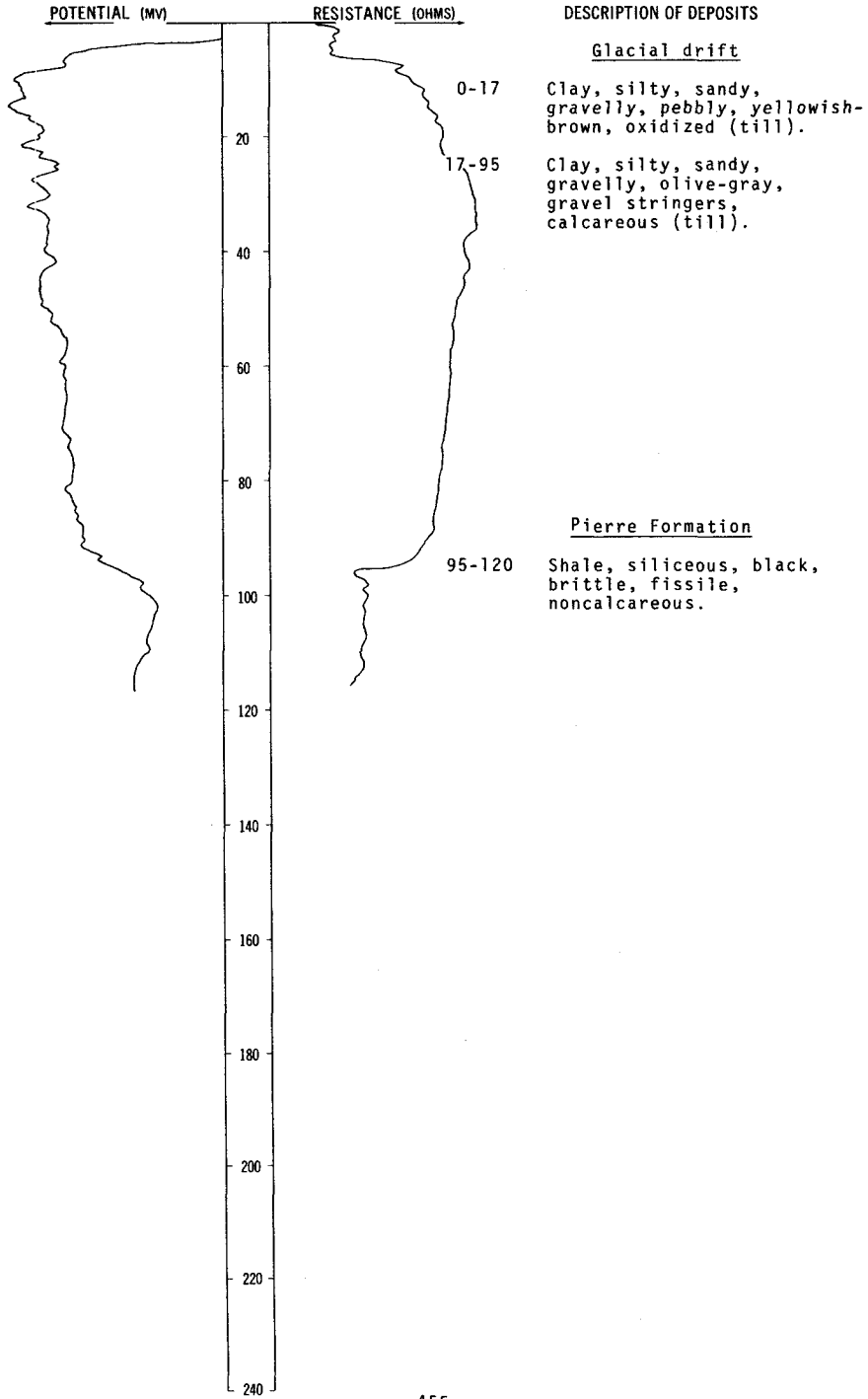
Test hole 8704
(Log from Naplin, 1976)

LOCATION: 134-063-35CCC

DATE DRILLED: 6/20/73

ALTITUDE: 1495
(FT, MSL)

DEPTH: 120
(FT)



134-064-05AAB
 Test hole 8736
 (Log from Naplin, 1976)

Altitude: 1530 feet Date drilled: 7/12/73

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, very silty, medium-gray, plastic, highly calcareous (alluvium)-----	2	2
	Sand, fine to very coarse, light-brown, loose, subrounded, well-sorted, oxidized-----	6	8
	Silt, clayey, medium-light-gray, lignitic, soft (glaciofluvial sediment)-----	5	13
	Sand, fine to very coarse, mostly coarse to very coarse, about 40 percent gravel, subangular to rounded, well-sorted, taking water, loose-----	10	23
	Clay, silty, pebbly, gravelly, olive-gray (till)-----	17	40

134-064-08ABB
 Test hole 8723
 (Log from Naplin, 1976)

Altitude: 1550 feet Date drilled: 7/10/73

Glacial drift:			
	Topsoil, sandy loam, brown-----	1	1
	Sand, medium to very coarse, gravelly, reddish-brown, oxidized-----	3	4
	Clay, silty, sandy, pebbly, olive-gray, occasional gravel stringers, calcareous (till)-----	36	40

134-064-09BAB
 Test hole 8722
 (Log from Naplin, 1976)

Altitude: 1542 feet Date drilled: 7/10/73

Glacial drift:			
	Sand, fine to very coarse, about 15 percent gravel, dark-gray, well-sorted, loose-----	13	13
	Clay, sandy, pebbly, olive-gray, calcareous (till)-----	23	36
	Gravel, fine to medium, about 30 percent sand, subangular to well-rounded, moderately well sorted, loose, taking water rapidly-----	7	43
	Clay, silty, sandy, pebbly, olive-gray (till)-----	17	60

134-064-09BAC2
(Log from Kemmet Drilling)

Date drilled: 6/24/74

Geologic source	Material	Thickness (feet)	Depth (feet)
	Topsoil, black-----	2	2
	Sand and gravel, brown-----	14	16
	Sand, gravelly, dark-----	9	25
	Sand, fine, clay fill, gray-----	5	30
	Sand, coarse, small gravel-----	5	35
	Gravel, medium-----	5	40
	Clay fill, gray-----	--	40

134-064-09BBB
Test hole 8721
(Log from Naplin, 1976)

Altitude: 1548 feet

Date drilled: 7/09/73

Glacial drift:

Topsoil, sandy loam, brown-----	½	½
Sand, fine to very coarse, about 25 percent gravel, subangular to rounded, moderately well sorted, shaly, lignitic, loose, taking water rapidly-----	19½	20
Gravel, fine to coarse, about 30 percent sand, subrounded to well-rounded, well-sorted, loose, taking water-----	10	30
Clay, sandy, pebbly, olive- gray (till)-----	2	32
Gravel, fine to coarse, subrounded, loose-----	2	34
Clay, silty, pebbly, olive-gray (till)-----	2	36
Gravel, fine to coarse, about 30 percent sand, subangular to rounded, fair sorting, loose-----	9	45
Clay, silty, pebbly, olive-gray (till)-----	71	116

Pierre Formation:

Shale, siliceous, grayish-black, brittle, fissile, noncalcareous-----	4	120
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134-064-14CCD
Test hole 8714
(Log from Naplin, 1976)

Altitude: 1535 feet

Date drilled: 6/22/73

Glacial drift:

Clay, silty, sandy, pebbly, yellowish-brown-----	12	12
Clay, silty, sandy, pebbly, olive- gray-----	9	21
Sand, coarse to very coarse-----	2	23
Clay, silty, pebbly, olive-gray (till)-----	10	33

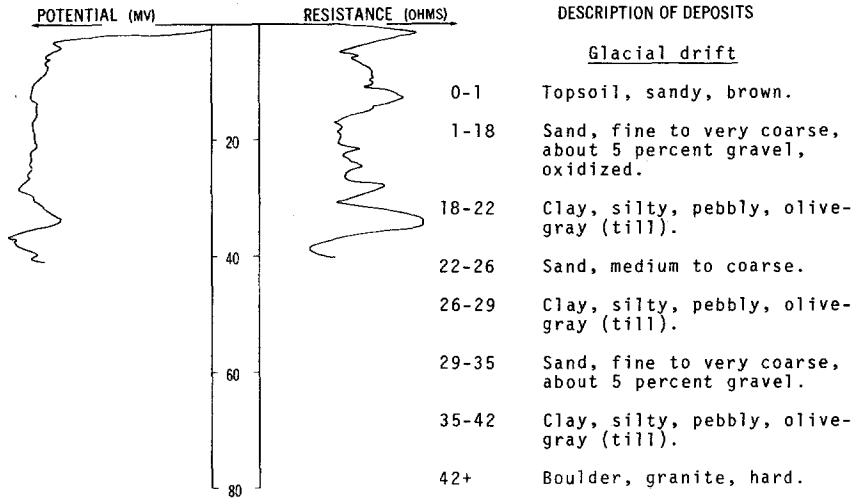
Pierre Formation:

Shale, black, brittle, fissile, noncalcareous-----	7	40
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Test hole 8915C
(Log from Naplin, 1976)

LOCATION: 134-064-15BCC
ALTITUDE: 1545
(FT, MSL)

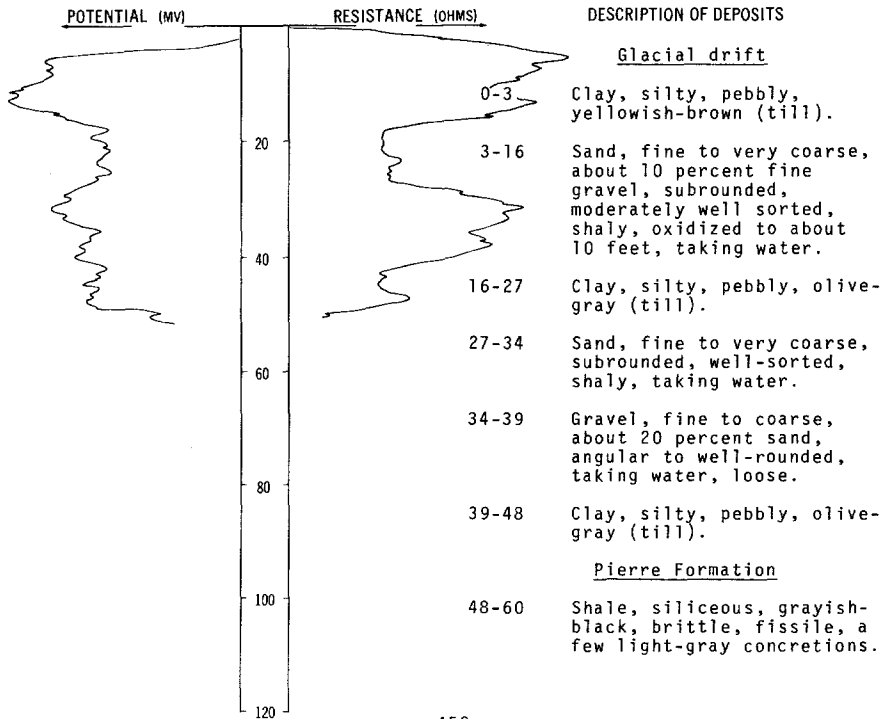
DATE DRILLED: 10/08/73
DEPTH: 42
(FT)



Test hole 8915
(Log from Naplin, 1976)

LOCATION: 134-064-15CBB1
ALTITUDE: 1548
(FT, MSL)

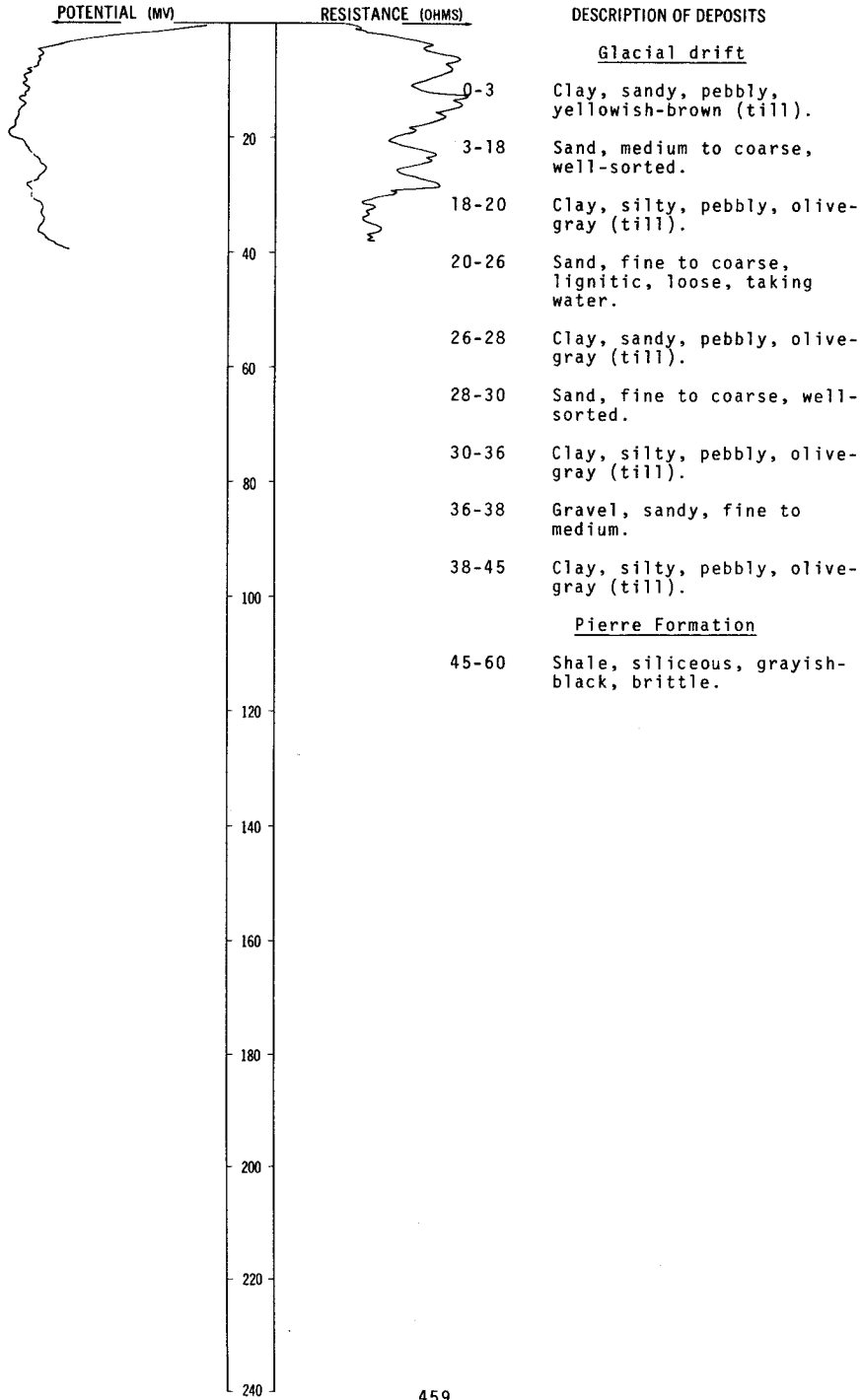
DATE DRILLED: 10/08/73
DEPTH: 60
(FT)



Test hole 8915A
(Log from Naplin, 1976)

LOCATION: 134-064-15CBB2
ALTITUDE: 1544
(FT, MSL)

DATE DRILLED: 10/08/73
DEPTH: 60
(FT)



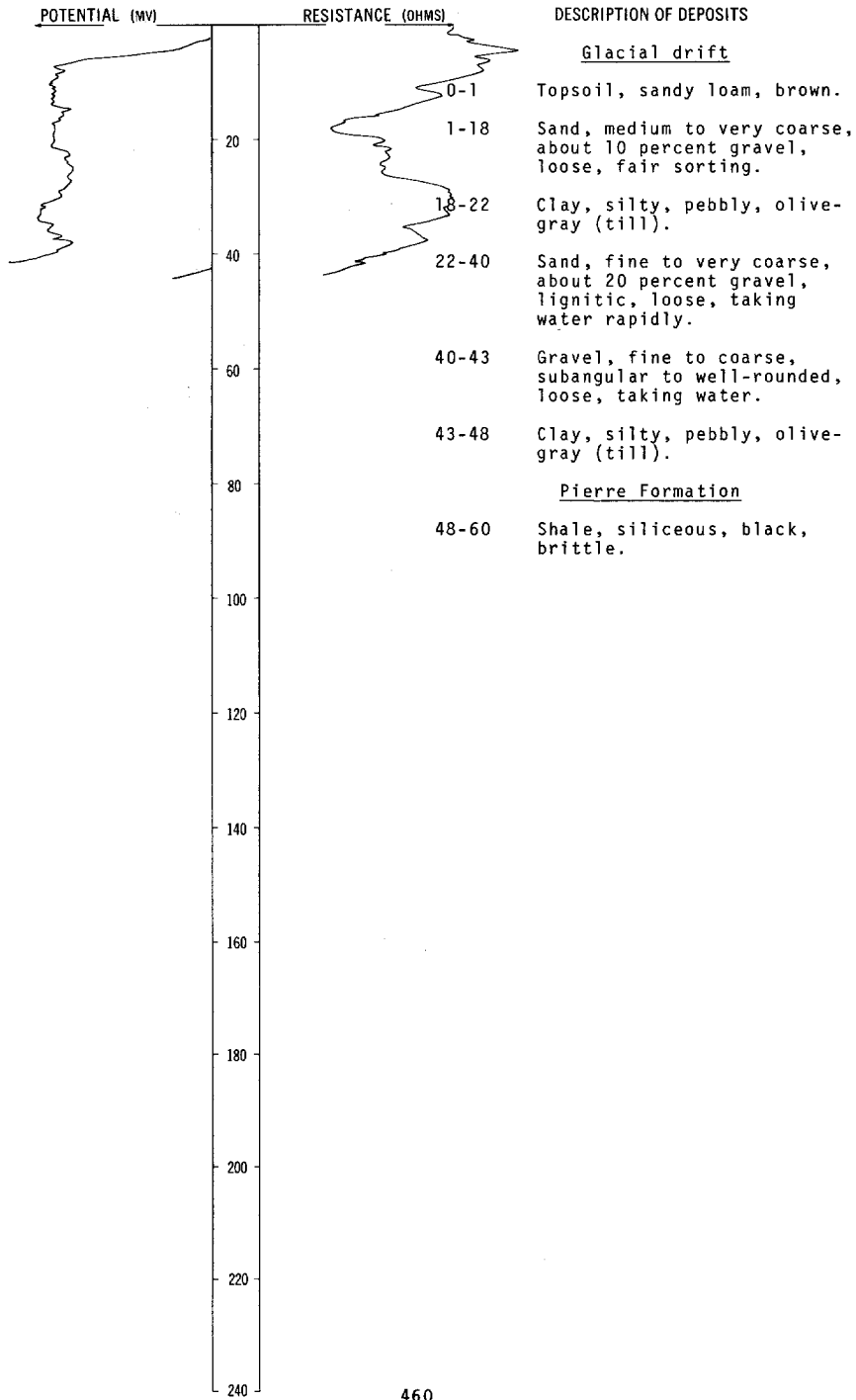
Test hole 8915B
(Log from Naplin, 1976)

LOCATION: 134-064-15CBB3

DATE DRILLED: 10/08/73

ALTITUDE: 1549
(FT, MSL)

DEPTH: 60
(FT)



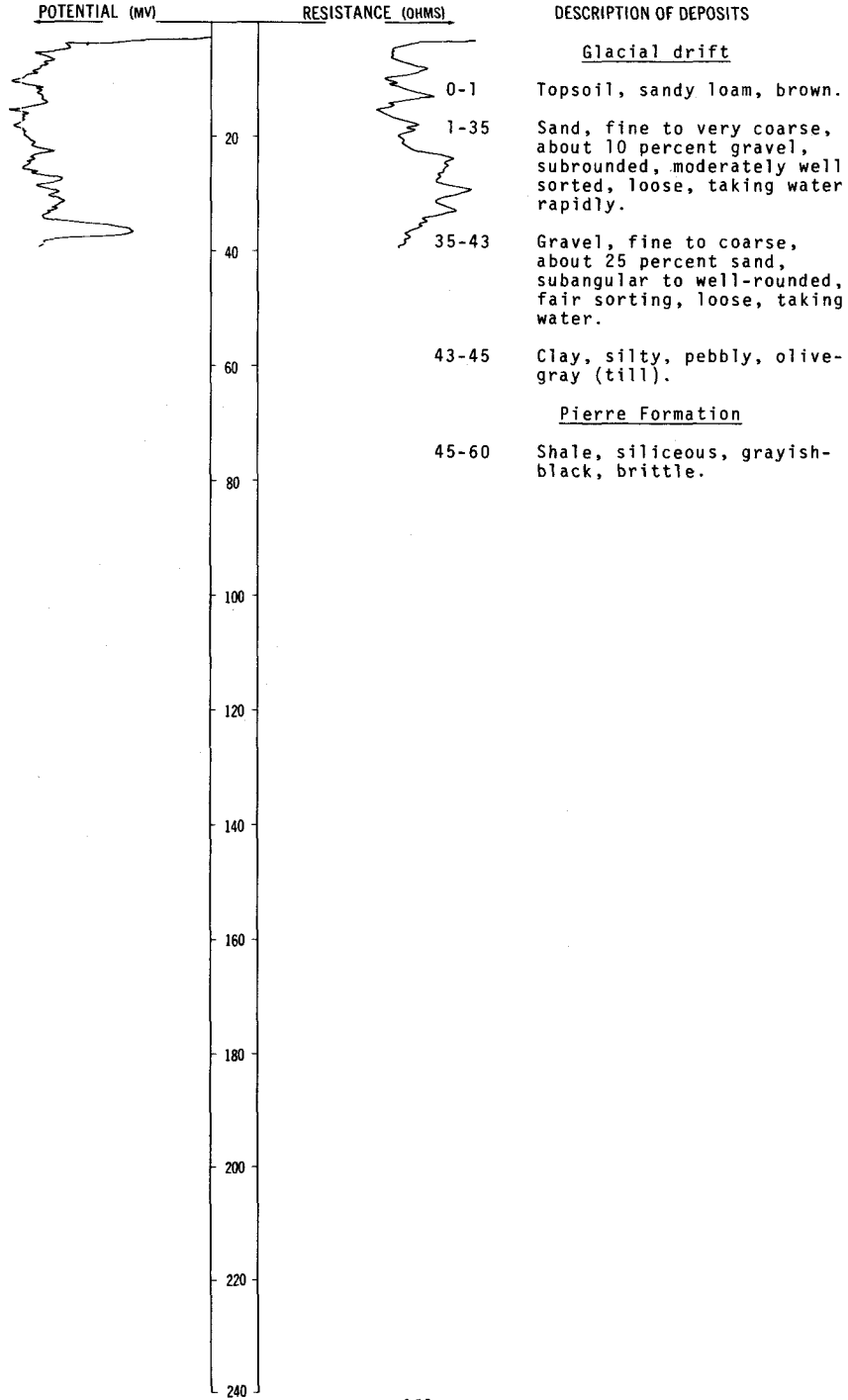
Test hole 8915D
(Log from Naplin, 1976)

LOCATION: 134-064-15CBB4

DATE DRILLED: 10/09/73

ALTITUDE: 1549
(FT, MSL)

DEPTH: 60
(FT)



134-064-15C885
 NDSWC 8915E
 (Log from Naplin, 1976)

Altitude: 1550 feet

Date drilled: 10/11/73

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, sandy loam, brown-----	1	1
	Sand, gravelly, oxidized-----	12	13
	Sand, gravelly, unoxidized-----	2	15
	Clay, silty, gravelly, pebbly, olive-gray (till)-----	8	23
	Gravel, sandy, cobbles, lignitic-----	16	39
	Sand, fine, clayey-----	1	40
	Clay, silty, gravelly, pebbly, olive-gray (till)-----	--	40

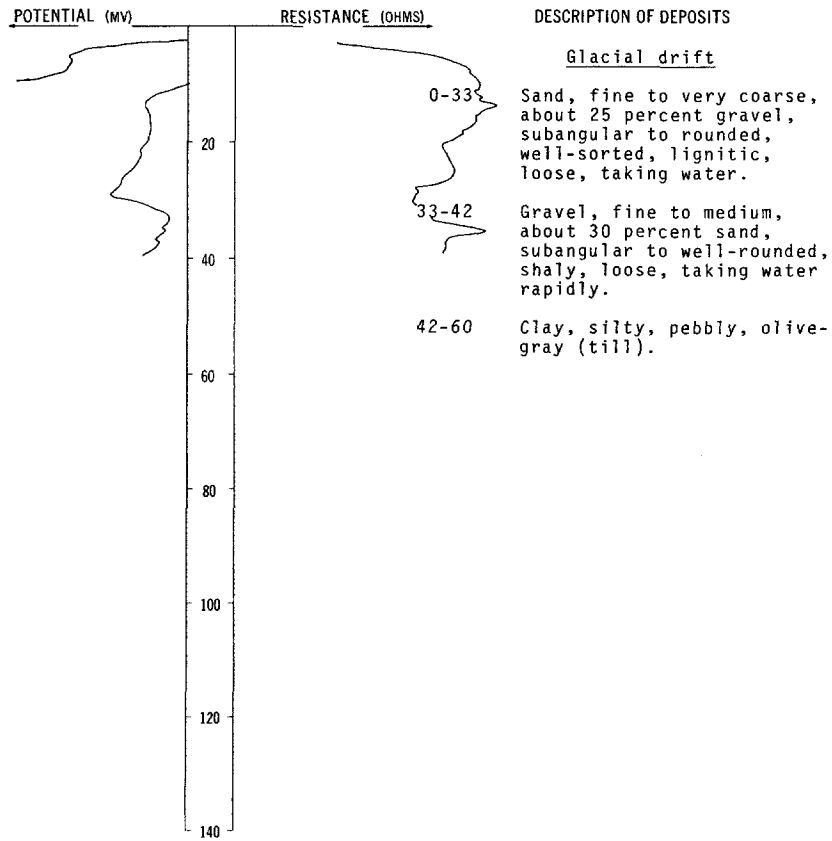
Test hole 8718
 (Log from Naplin, 1976)

LOCATION: 134-064-16ABB1

DATE DRILLED: 7/09/73

ALTITUDE: 1555
 (FT, MSL)

DEPTH: 60
 (FT)



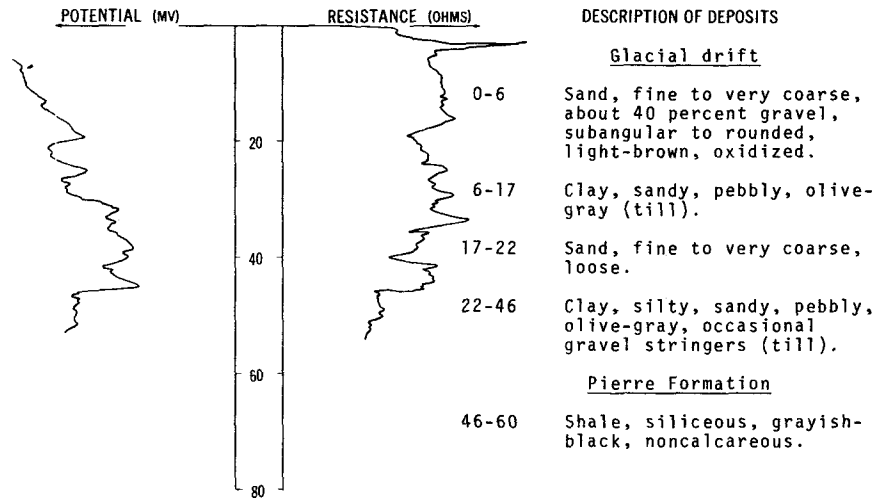
Test hole 8719
(Log from Naplin, 1976)

LOCATION: 134-064-16BBB

DATE DRILLED: 7/09/73

ALTITUDE: 1560
(FT, MSL)

DEPTH: 60
(FT)



134-064-16CCC
Test hole 8720
(Log from Naplin, 1976)

Altitude: 1560 feet

Date drilled: 7/09/73

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Sand, fine to very coarse, about 30 percent gravel, light-brown, oxidized-----	7	7
	Clay, silty, pebbly, olive-gray (till)-----	25	32
Pierre Formation:			
	Shale, siliceous, grayish-black, brittle, noncalcareous-----	8	40

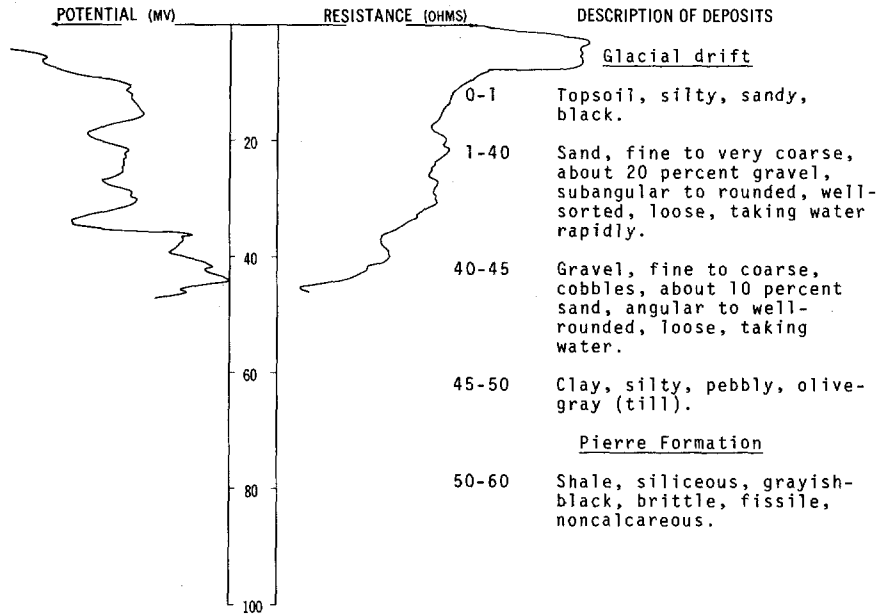
Test hole 8717
(Log from Naplin, 1976)

LOCATION: 134-064-16DAA2

DATE DRILLED: 6/22/73

ALTITUDE: 1549
(FT, MSL)

DEPTH: 60
(FT)



134-064-16DCC
Test hole 8713
(Log from Naplin, 1976)

Altitude: 1545 feet

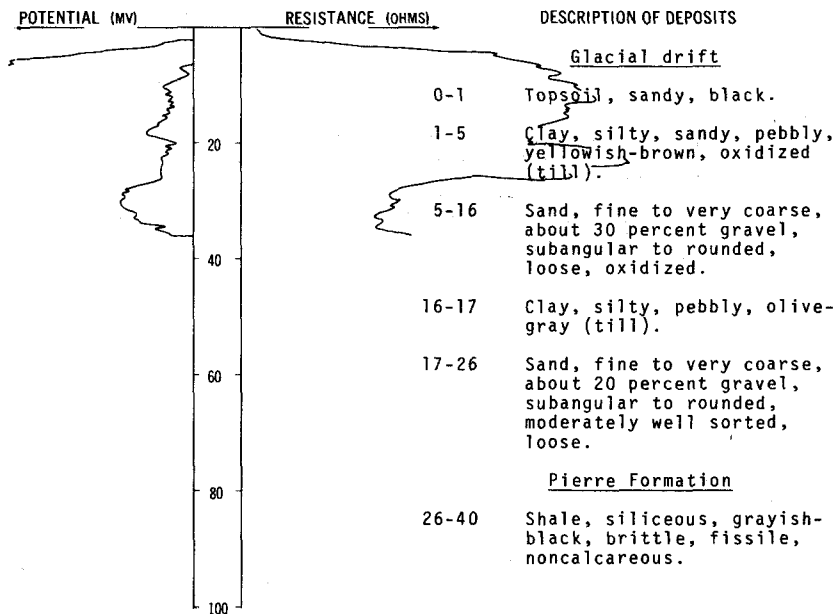
Date drilled: 6/22/73

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
<u>Glacial drift:</u>			
	Topsoil, sandy loam, brownish-black-----	1	1
	Sand, fine to very coarse, gravelly-----	9	10
	Clay, silty, pebbly, olive-gray (till)-----	20	30
<u>Pierre Formation:</u>			
	Shale, siliceous, brittle, noncalcareous-----	10	40

Test hole 8710
(Log from Naplin, 1976)

LOCATION: 134-064-22ABA
ALTIITUDE: 1537
(FT, MSL)

DATE DRILLED: 6/21/73
DEPTH: 40
(FT)



134-064-22ABB
Test hole 8711
(Log from Naplin, 1976)

Altitude: 1545 feet

Date drilled: 6/21/73

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:	Topsoil, sandy silt loam, brown-----	1	1
	Sand, fine to very coarse, about 10 percent gravel, subrounded, partially oxidized-----	18	19
Pierre Formation:	Shale, siliceous, grayish-black, brittle, fissile, noncalcareous-----	21	40

134-064-22BBB1
 Test hole 8712
 (Log from Naplin, 1976)

Altitude: 1550 feet Date drilled: 6/21/73

Geologic source	Material	Thickness (feet)	Depth (feet)
Glacial drift:			
	Topsoil, sandy loam, brownish-black-----	1	1
	Sand, fine to medium, about 5 percent gravel-----	19	20
	Gravel, fine to coarse, about 10 percent sand, subangular to well-rounded, loose, taking water-----	13	33
	Clay, silty, pebbly, olive-gray (till)-----	5	38
Pierre Formation:			
	Shale, siliceous, grayish-black, brittle, fissile, noncalcareous-----	22	60

134-064-22BBB2
 Test hole 9171
 (Log from Naplin, 1976)

Altitude: 1550 feet Date drilled: 10/17/74

Glacial drift:			
	Topsoil, silty, black-----	1	1
	Sand, fine to coarse-----	25	26
	Gravel, fine to coarse-----	8	34
	Clay, silty, pebbly, olive-gray (till)-----	6	40

134-064-22BCB
 Test hole 8726
 (Log from Naplin, 1976)

Altitude: 1541 feet Date drilled: 7/10/73

Glacial drift:			
	Sand, fine to very coarse, about 30 percent gravel, subrounded, well-sorted, shaly-----	10	10
	Gravel, fine to coarse, about 40 percent sand, subangular to well-rounded, loose, taking water, fair sorting-----	6	16
	Clay, silty, pebbly, olive-gray, calcareous (till)-----	13	29
Pierre Formation:			
	Shale, siliceous, grayish-black, brittle, noncalcareous-----	11	40

134-064-22CCD
 Test hole 8716
 (Log from Naplin, 1976)

Altitude: 1538 feet	Date drilled: 6/22/73
<u>Geologic source</u> <u>Material</u>	<u>Thickness (feet)</u> <u>Depth (feet)</u>
Glacial drift:	
Topsoil, sandy loam, brownish-black-----	1 1
Sand, very fine to fine, light-brown, oxidized-----	2 3
Clay, sandy, pebbly, yellowish-brown, oxidized (till)-----	8 11
Pierre Formation:	
Shale, siliceous, grayish-black, brittle, fissile, noncalcareous-----	9 20

134-064-22DDC
 Test hole 8715
 (Log from Naplin, 1976)

Altitude: 1538 feet	Date drilled: 6/22/73
Glacial drift:	
Topsoil, sandy clay loam, black-----	1 1
Sand, very fine to fine, light-brown, oxidized-----	3 4
Pierre Formation:	
Shale, siliceous, black, brittle, fractured-----	16 20

134-064-23CCC
 Test hole 8724
 (Log from Naplin, 1976)

Altitude: 1535 feet	Date drilled: 7/10/73
Glacial drift:	
Sand, fine to very coarse, subrounded, light-brown, shaly, oxidized-----	7 7
Pierre Formation:	
Shale, siliceous, grayish-black, brittle, noncalcareous-----	13 20

134-064-23CDC
 Test hole 8725
 (Log from Naplin, 1976)

Altitude: 1540 feet	Date drilled: 7/10/73
Glacial drift:	
Sand, fine to very coarse, subrounded, shaly, well-sorted, partially oxidized-----	6 6
Pierre Formation:	
Shale, siliceous, grayish-black, brittle, fissile, noncalcareous-----	14 20

134-064-25DDA
 Test hole 8708
 (Log from Naplin, 1976)

Altitude: 1540 feet Date drilled: 6/21/73

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty, sandy loam, brownish-black-----	1	1
	Clay, silty, sandy, pebbly, yellowish-brown, oxidized (till)-----	13	14
	Clay, silty, pebbly, olive-gray, calcareous (till)-----	15	29
	Sand, fine to medium, subrounded, iron-stained-----	3	32
	Silt, clayey, olive-gray-----	1	33
	Sand, very fine to medium, subrounded, iron-stained-----	3	36
	Clay, silty, pebbly, olive-gray, calcareous (till)-----	4	40
Pierre Formation:			
	Shale, siliceous, black, brittle, fractured, noncalcareous-----	20	60

134-064-27DDC
 Test hole 8709
 (Log from Naplin, 1976)

Altitude: 1537 feet Date drilled: 6/21/73

Glacial drift:			
	Topsoil, silty, pebbly, clay loam, black-----	1	1
	Sand, medium to very coarse, light-brown, oxidized-----	4	5
Pierre Formation:			
	Shale, siliceous, grayish-black, brittle, fractured, noncalcareous-----	35	40

134-064-32CCC
 Test hole 8694
 (Log from Naplin, 1976)

Altitude: 1610 feet Date drilled: 6/19/73

Glacial drift:			
	Clay, silty, pebbly, yellowish-brown, oxidized (till)-----	12	12
	Clay, silty, pebbly, cobbles, olive-gray, a few gravel stringers, calcareous (till)-----	26	38
	Sand, very fine to medium, shaly, subrounded, lignitic-----	2	40
	Clay, silty, pebbly, olive-gray, calcareous (till)-----	48	88
Pierre Formation:			
	Shale, siliceous, grayish-black to black, brittle, fractured, noncalcareous-----	12	100

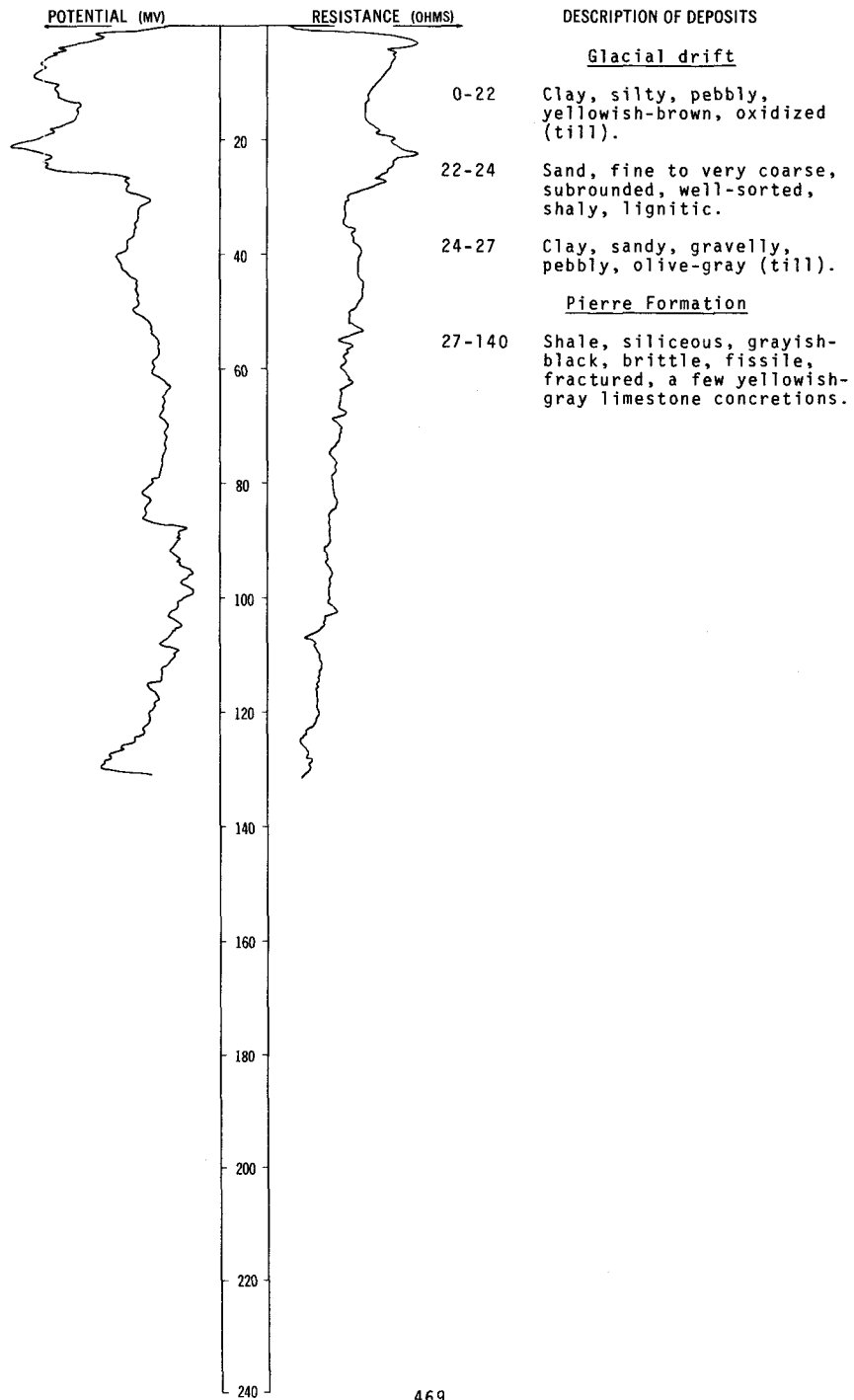
Test hole 8696
(Log from Naplin, 1976)

LOCATION: 134-064-33DDD

DATE DRILLED: 6/19/73

ALTITUDE: 1565
(FT, MSL)

DEPTH: 140
(FT)



134-064-34ADD
(Log from Traut Wells, Inc.)

Date drilled: 10/07/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Sand, brown-----	10	10
	Clay, gray-----	11	21
	Sand, gray-----	3	24
	Shale-----	33	57

134-064-35BBC
(Log from Traut Wells, Inc.)

Date drilled: 8/21/74

	Sand, brown-----	17	17
	Shale-----	40	57

134-064-35DDD
Test hole 8698
(Log from Naplin, 1976)

Altitude: 1525 feet

Date drilled: 6/20/73

Glacial drift:

	Clay, silty, sandy, gravelly, yellowish-brown, oxidized (till)-----	14	14
	Clay, silty, sandy, pebbly, olive- gray (till)-----	4	18

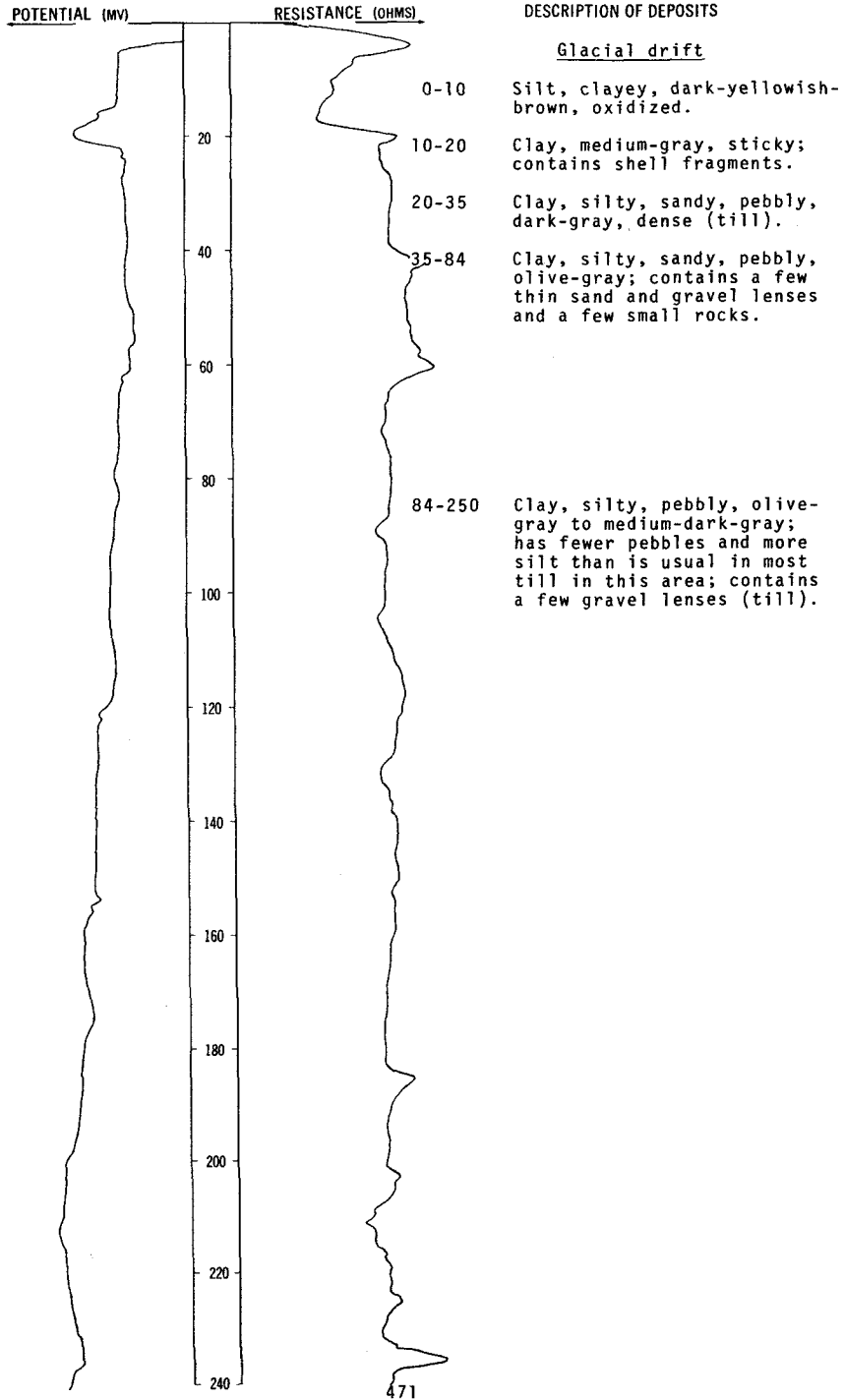
Pierre Formation:

	Shale, siliceous, grayish-black, brittle, fissile, noncalcareous-----	22	40
--	--	----	----

NDSWC 9172

LOCATION: 134-065-05ABB
ALTITUDE: 1710
(FT, MSL)

DATE DRILLED: 10/17/74
DEPTH: 320
(FT)



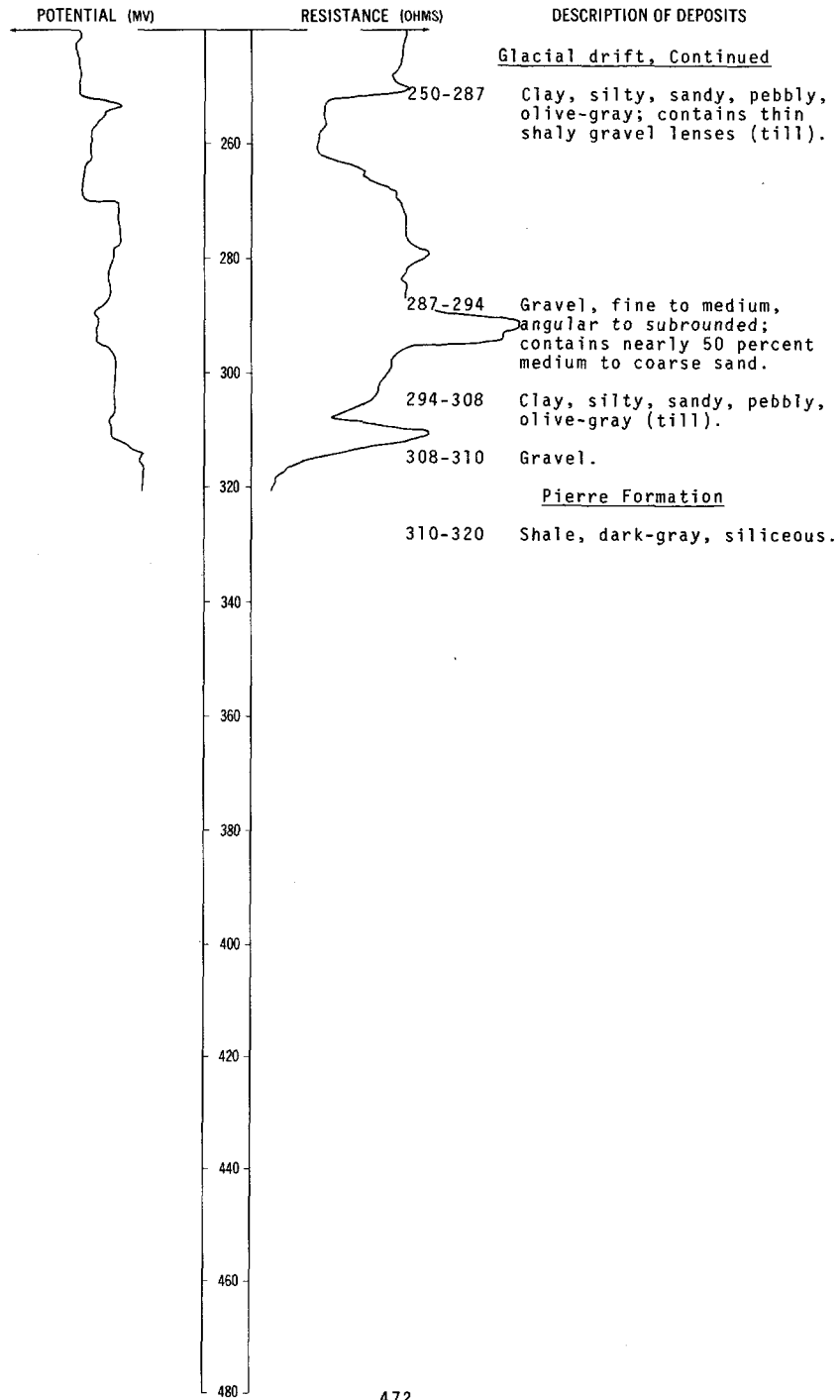
NDSWC 9172, Continued

LOCATION: 134-065-05ABB

DATE DRILLED: 10/17/74

ALTITUDE: 1710
(FT, MSL)

DEPTH: 320
(FT)



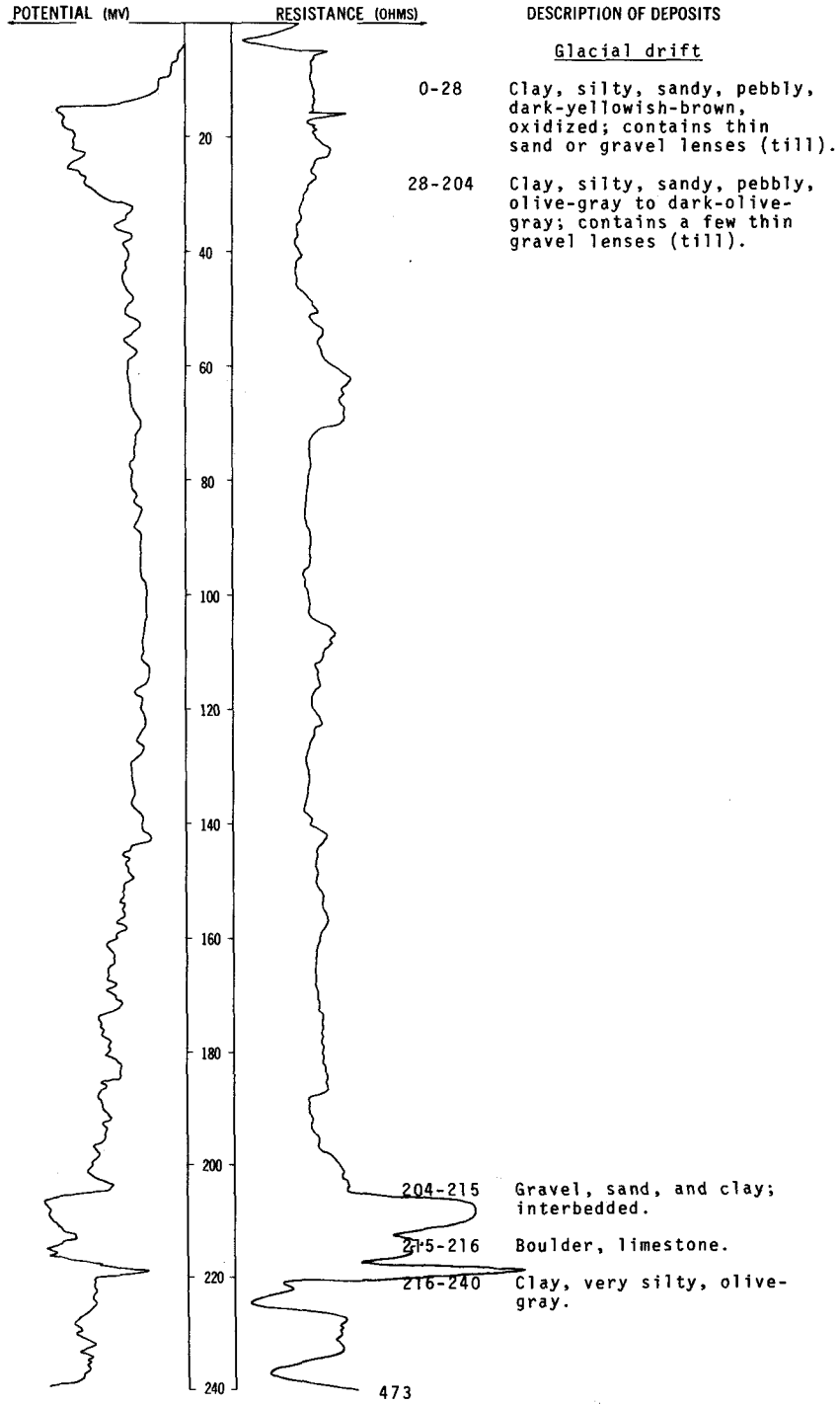
NDSWC 9170

LOCATION: 134-065-31CCC

DATE DRILLED: 10/16/74

ALTITUDE: 1915
(FT, MSL)

DEPTH: 460
(FT)



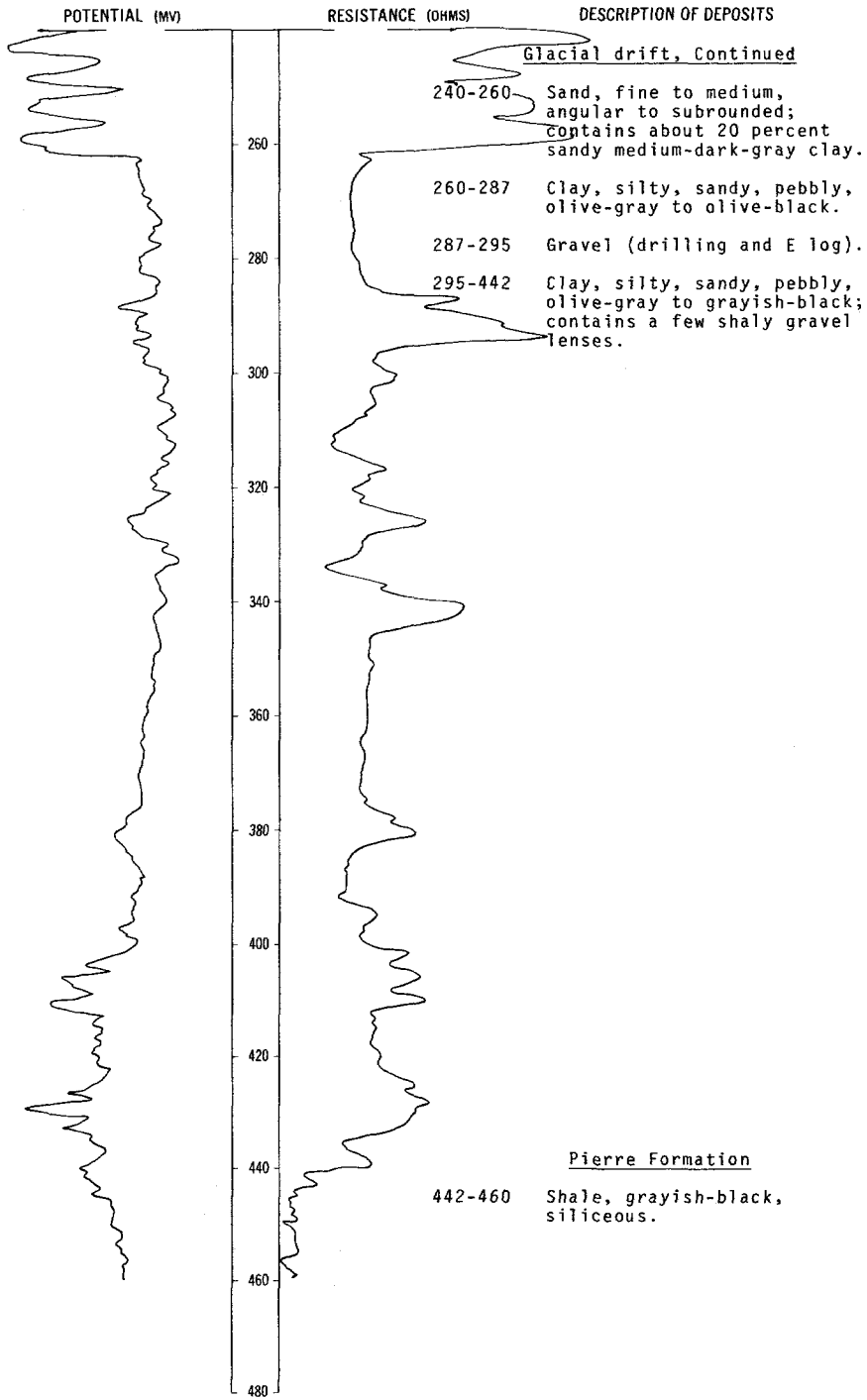
NDSWC 9170, Continued

LOCATION: 134-065-31CCC

DATE DRILLED: 10/16/74

ALTITUDE: 1915
(FT, MSL)

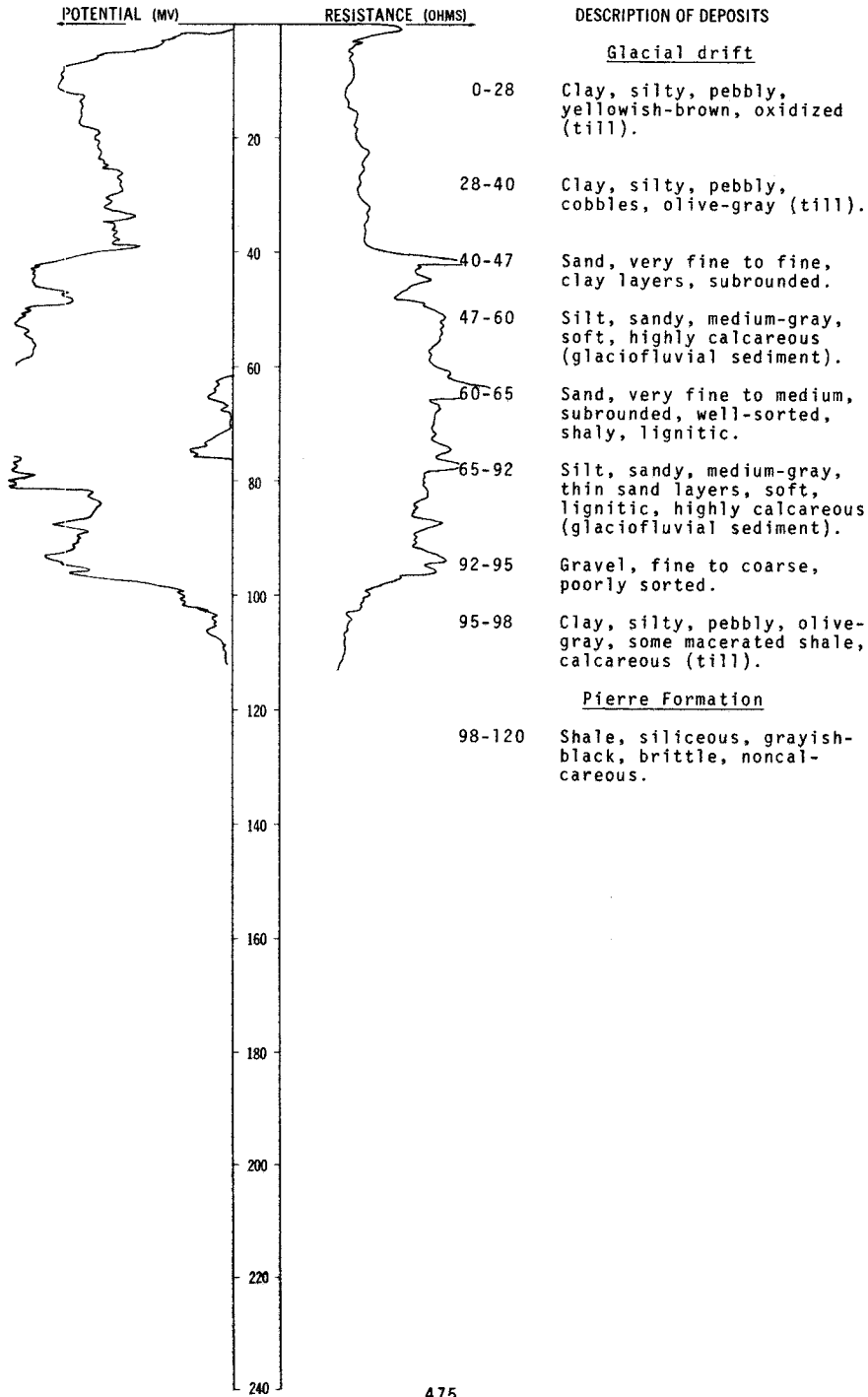
DEPTH: 460
(FT)



Test hole 8691
(Log from Naplin, 1976)

LOCATION: 134-065-35CCC
 ALTITUDE: 1750
 (FT, MSL)

DATE DRILLED: 6/19/73
 DEPTH: 120
 (FT)



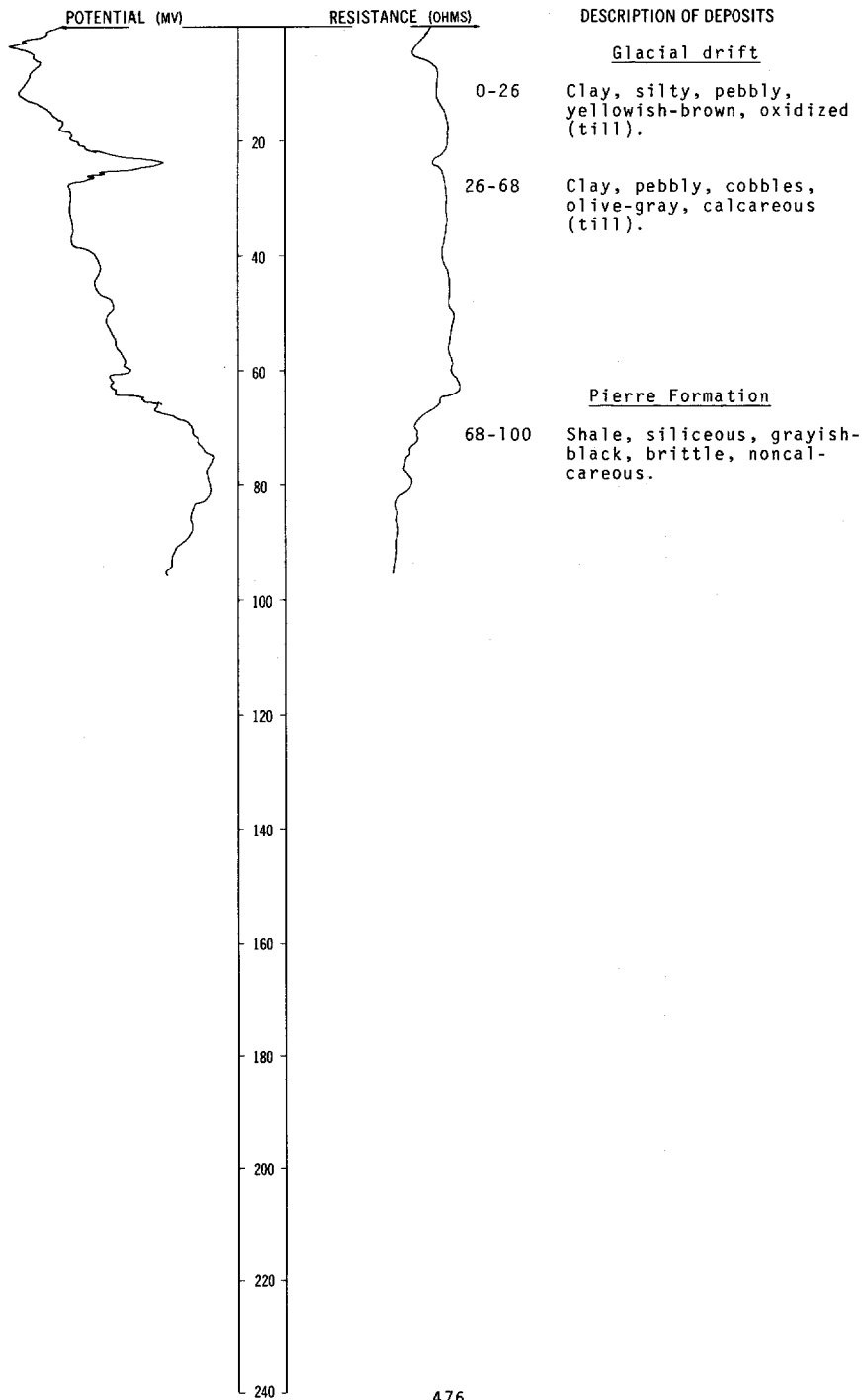
Test hole 8692
(Log from Naplin, 1976)

LOCATION: 134-065-35DDD

DATE DRILLED: 6/19/73

ALTITUDE: 1690
(FT. MSL)

DEPTH: 100
(FT)



134-065-36DDD
 Test hole 8693
 (Log from Naplin, 1976)

Altitude: 1665 feet	Date drilled: 6/19/73		
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, silty, sandy, pebbly, yellowish-brown, oxidized (till)-----	25	25
	Clay, silty, pebbly, cobbles, olive-gray, calcareous (till)-----	22	47
Pierre Formation:			
	Shale, siliceous, grayish-black, brittle, fissile, noncalcareous-----	13	60

134-066-02DCD
 (Log from Beitz Pump Service)

	Date drilled: 5/03/74	
Dirt, black-----	1	1
Clay, yellow-----	23	24
Clay, sandy, blue-----	150	174
Sand-----	--	174

134-066-24BBC
 (Log from Olson Water Wells)

	Date drilled: 8/06/74	
Topsoil, black-----	1	1
Clay, yellow, sandy from 10 to 20 feet-----	29	30
Clay, blue-----	203	233
Sand, fine, gray-----	7	240

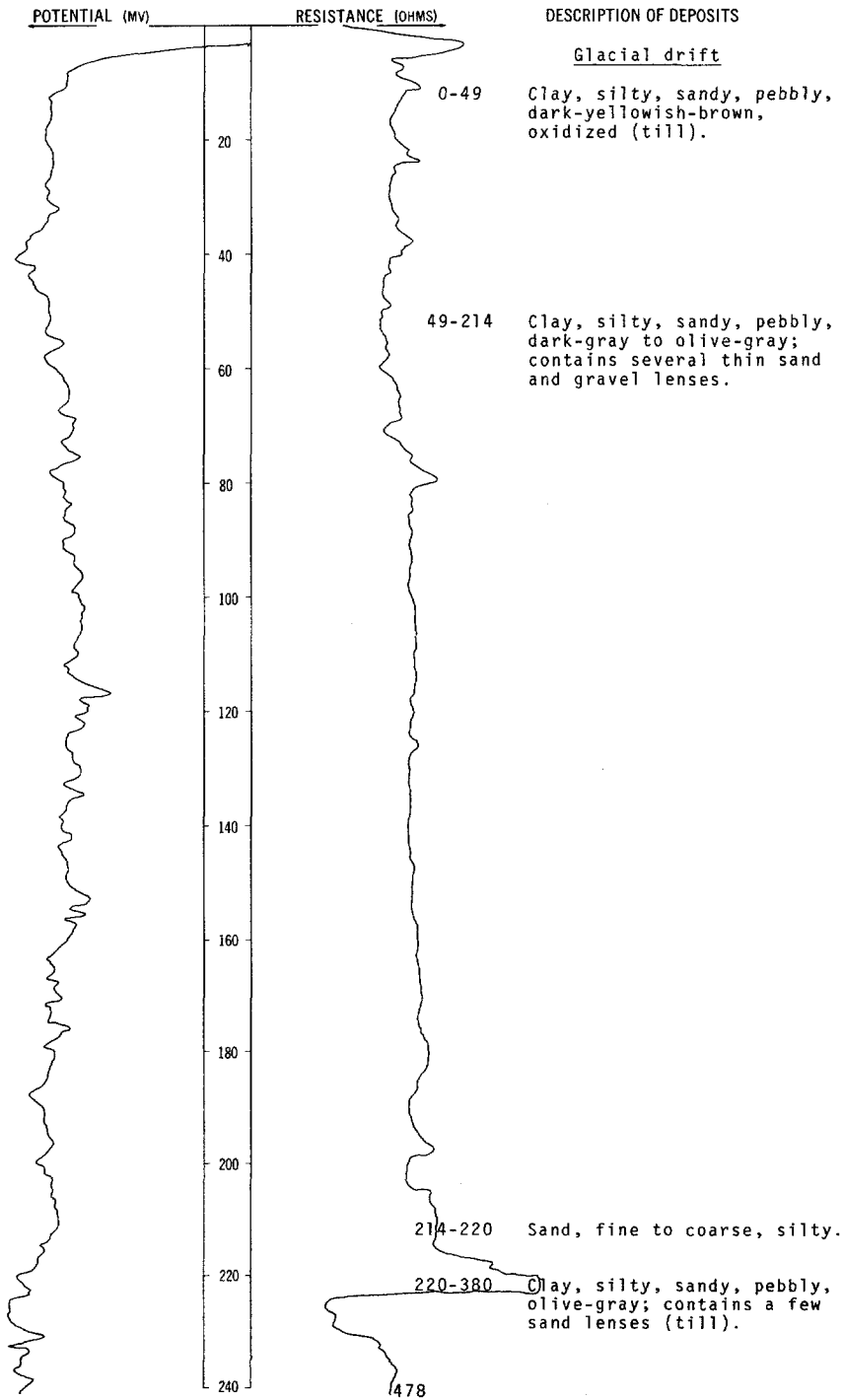
NDSWC 9168

LOCATION: 134-066-33CCC

DATE DRILLED: 10/15/74

ALTITUDE: 1960
(FT, MSL)

DEPTH: 420
(FT)



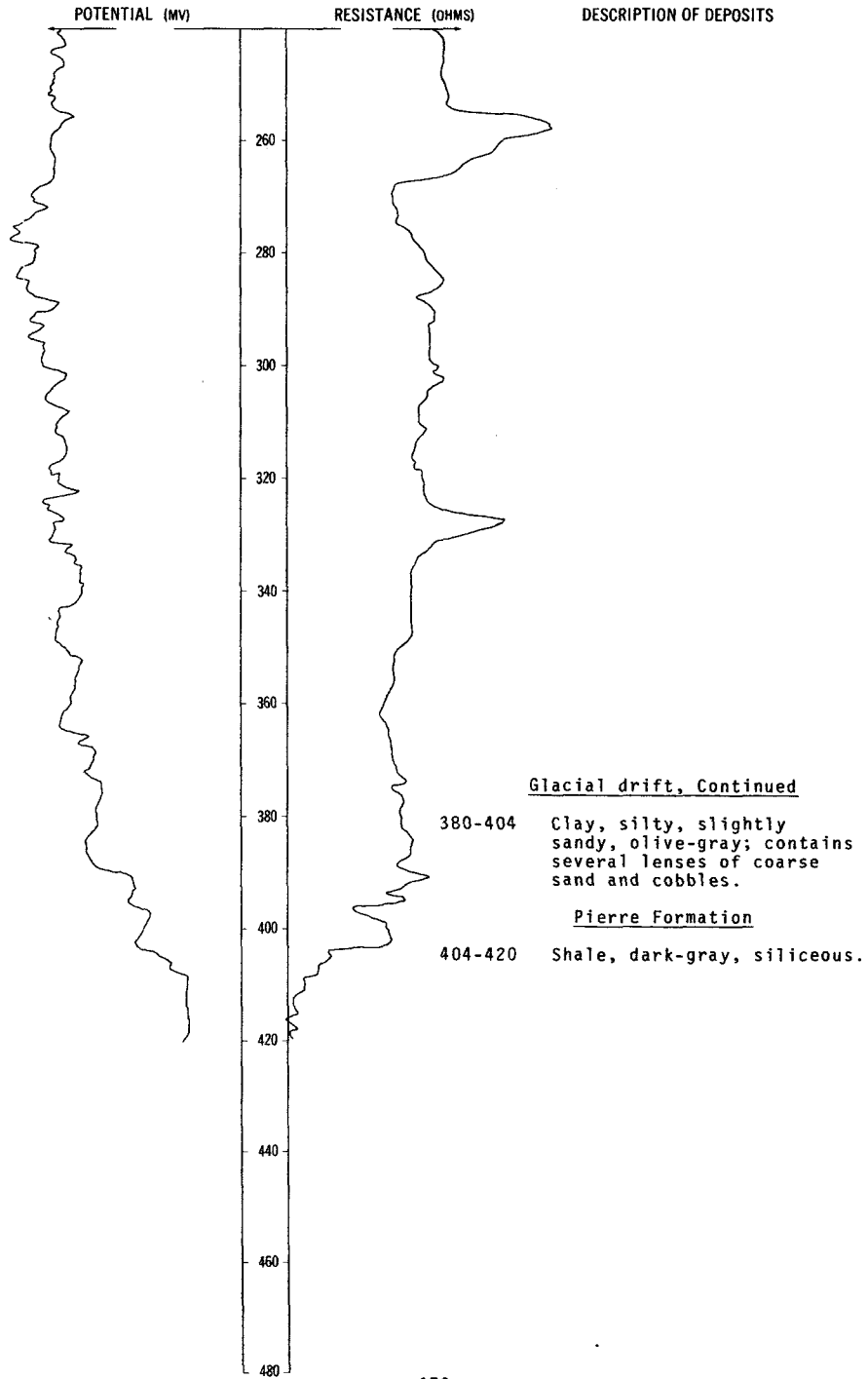
NDSWC 9168, Continued

LOCATION: 134-066-33CCC

DATE DRILLED: 10/15/74

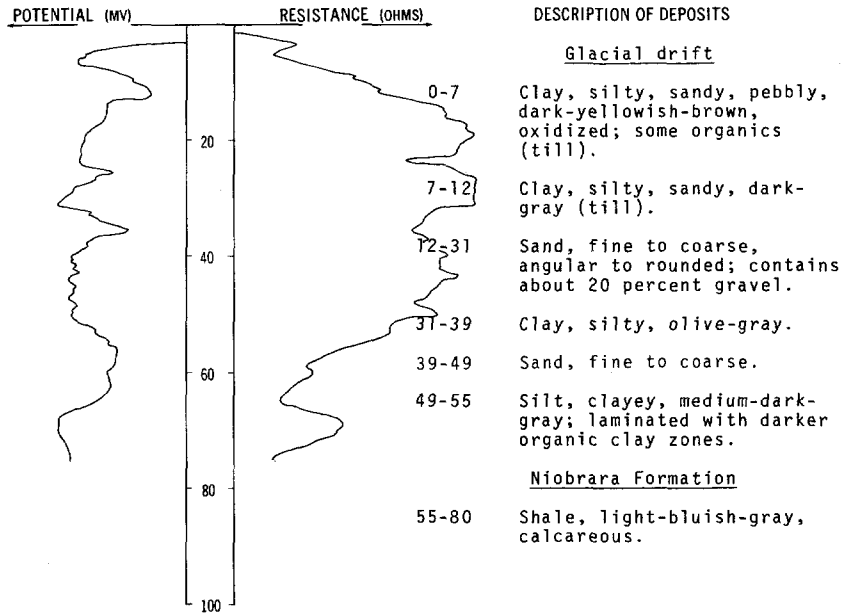
ALTITUDE: 1960
(FT, MSL)

DEPTH: 420
(FT)



LOCATION: 135-059-11AAB
 ALTITUDE: 1390
 (FT, MSL)

DATE DRILLED: 10/25/74
 DEPTH: 80
 (FT)



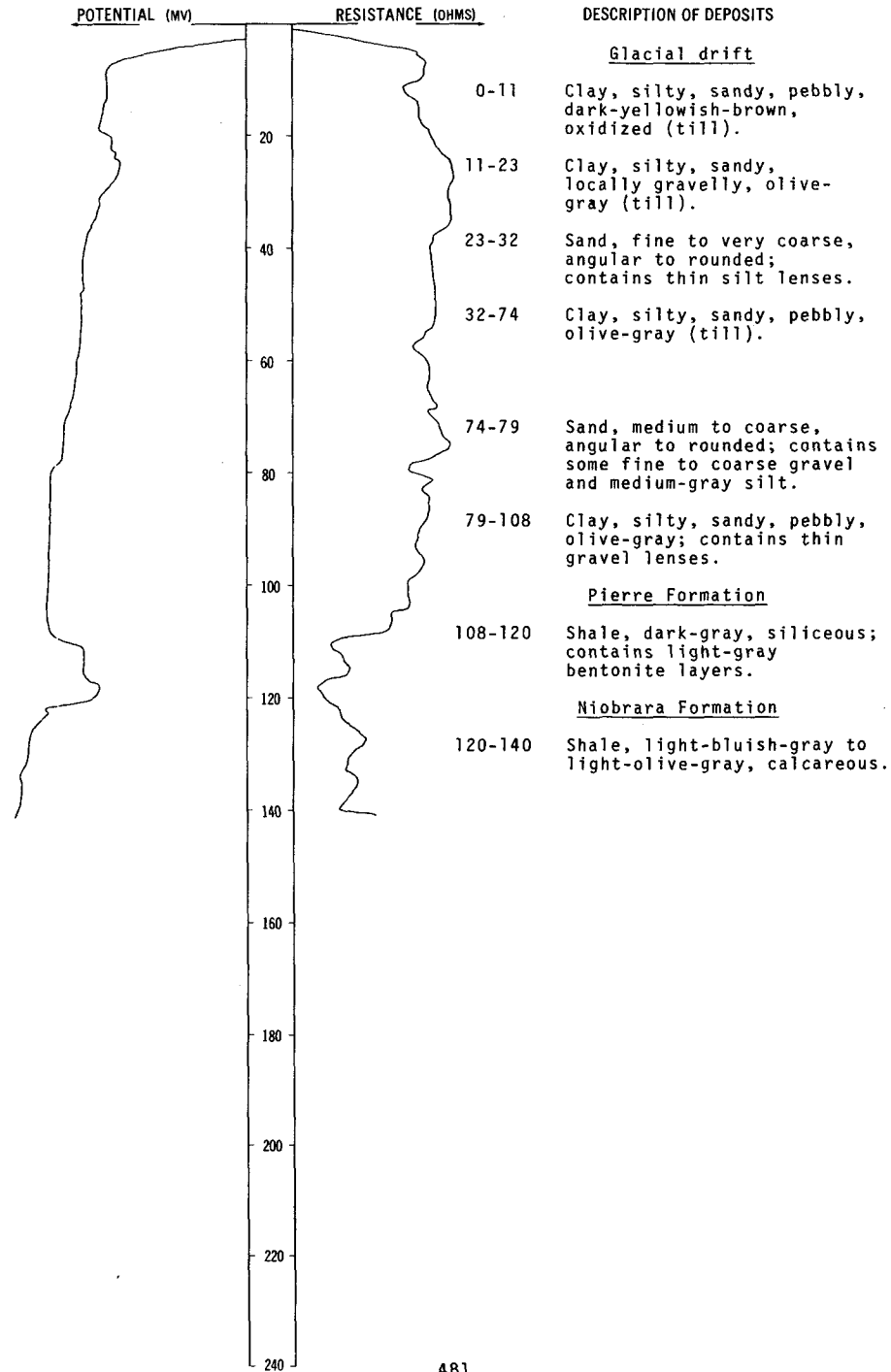
135-059-27ABA
 (Log from Kamoni Well Boring)

Date drilled: 10/ /74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Dirt, black-----	2	2
	Clay, yellow-----	16	18
	Clay, blue-----	7	25
	Sand and gravel-----	12	37
	Clay, blue-----	9	46

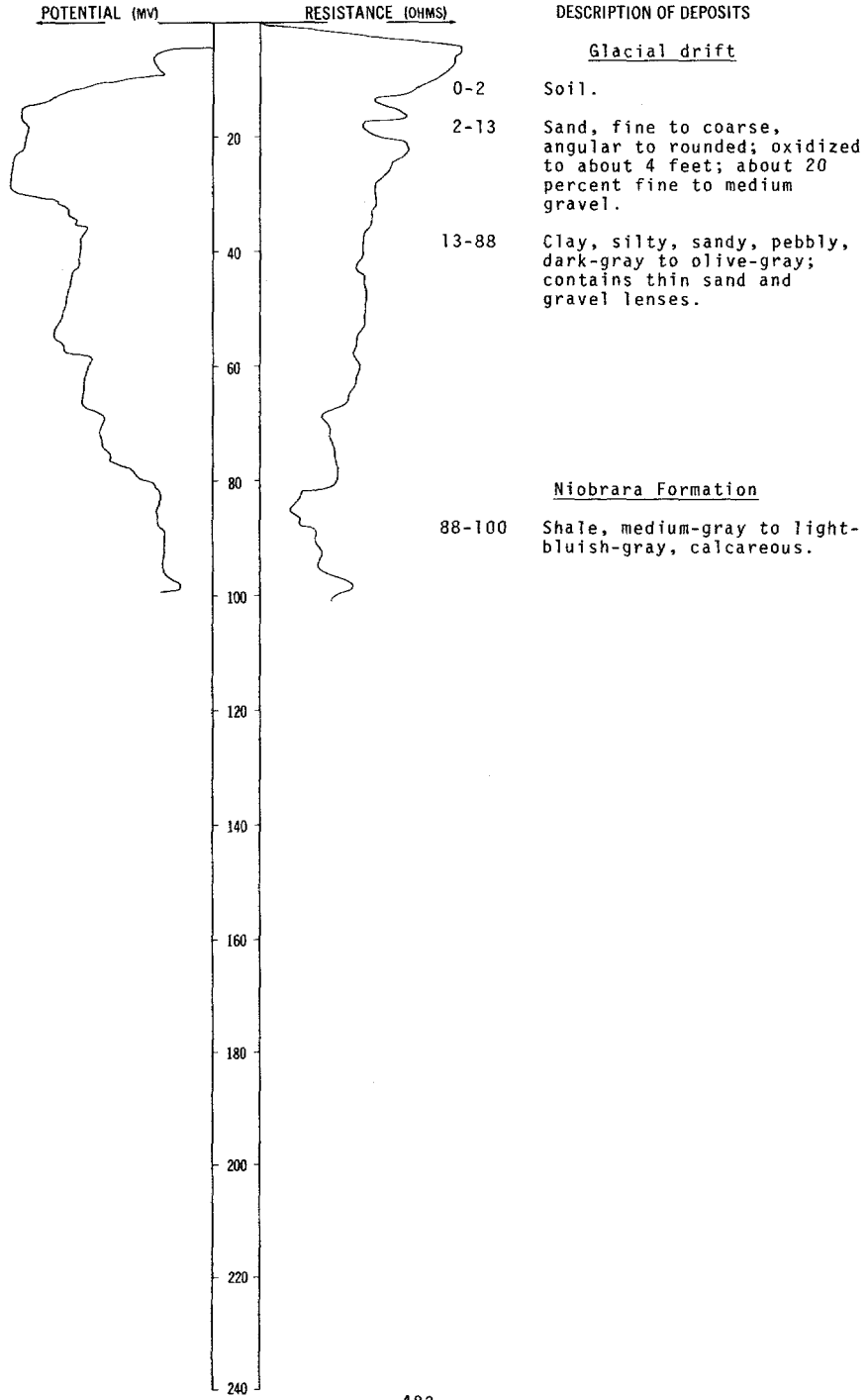
LOCATION: 135-060-07DDD
 ALTITUDE: 1425
 (FT, MSL)

DATE DRILLED: 10/28/74
 DEPTH: 140
 (FT)



LOCATION: 135-060-15AAA
ALTITUDE: 1410
(FT, MSL)

DATE DRILLED: 10/28/74
DEPTH: 100
(FT)



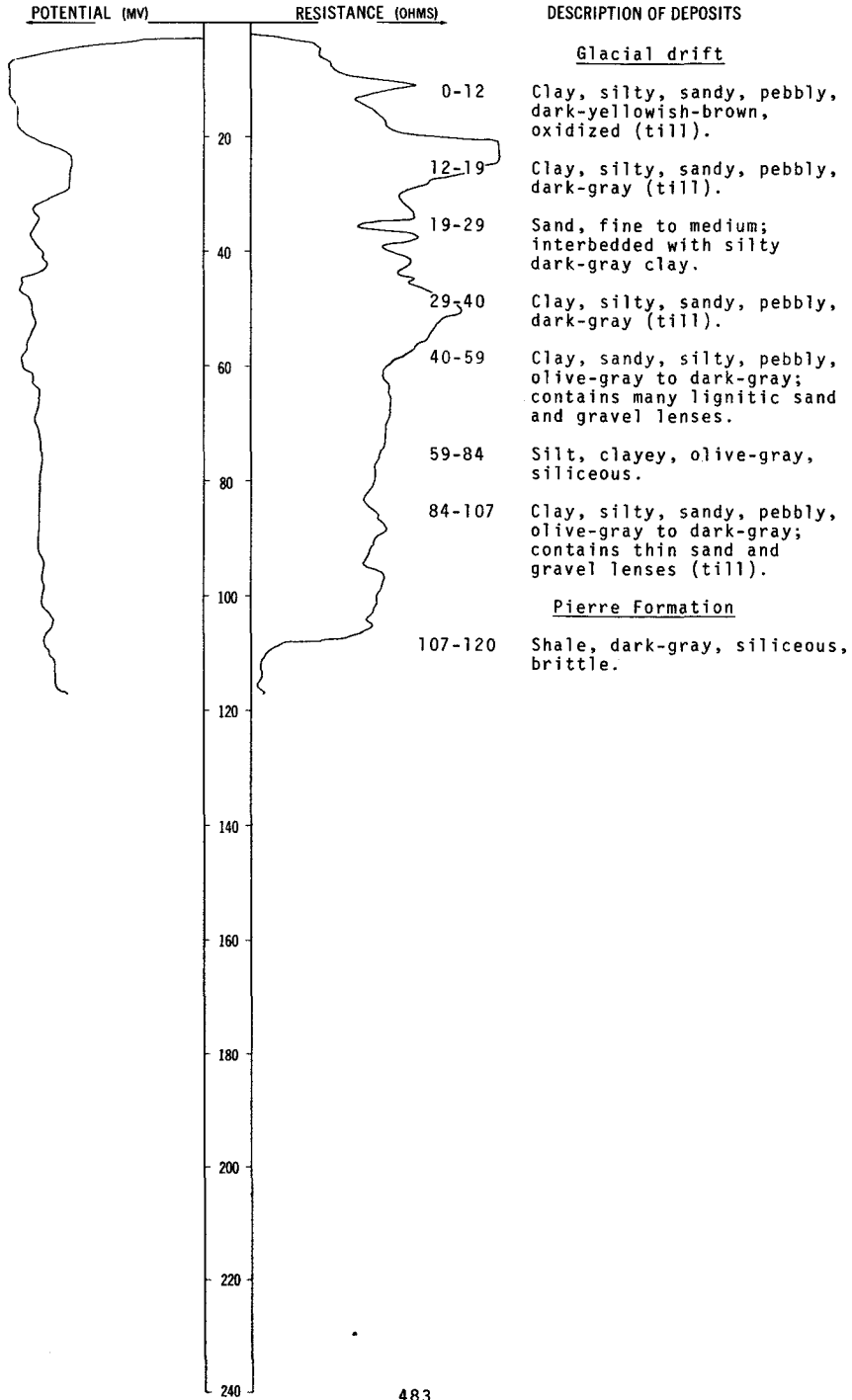
NDSWC 9193

LOCATION: 135-061-12CCC

DATE DRILLED: 10/28/74

ALTITUDE: 1440
(FT, MSL)

DEPTH: 120
(FT)



135-061-15BBB
NDSWC 9194

Altitude: 1451 feet

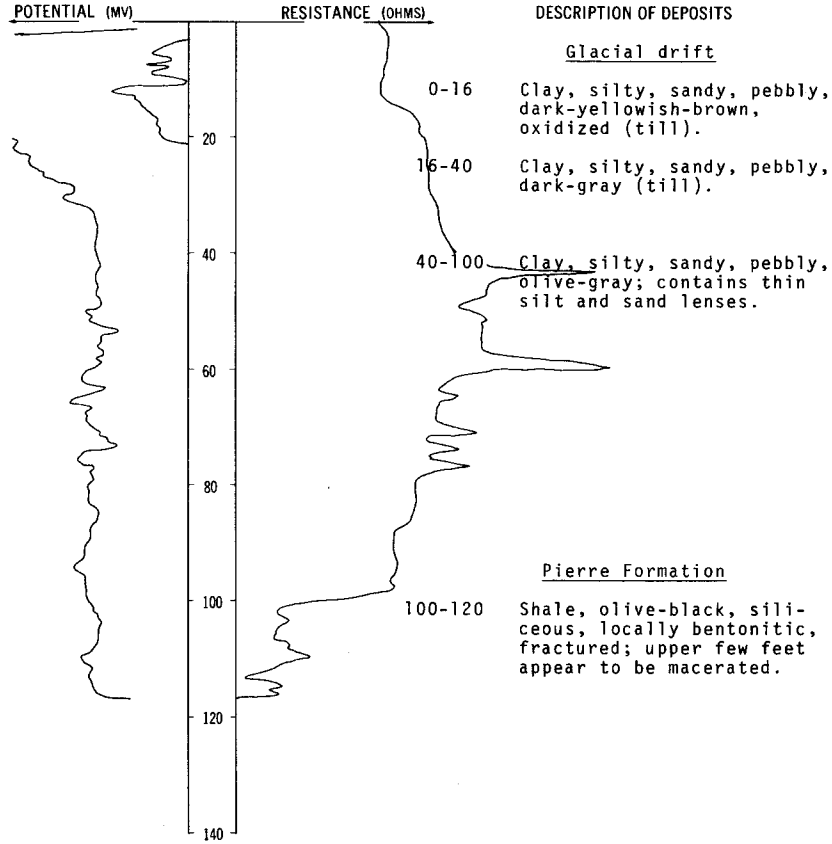
Date drilled: 10/29/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil, silty loam, dark-yellowish-brown-----	1	1
	Clay, silty, sandy, pebbly, dark-yellowish-brown, oxidized; contains thin gravel lenses (till)-----	13	14
	Sand, fine to coarse, silty, sub-angular to rounded; contains some fine dark-yellowish-brown predominantly carbonate oxidized gravel-----	11	25
	Gravel, fine to coarse, angular to rounded; contains nearly 50 percent fine to very coarse sand-----	10	35
	Clay, silty, sandy, dark-gray; contains few pebbles (till?)-----	5	40
	Clay, silty, sandy, pebbly, olive-gray; contains thin gravel lenses (till)-----	25	65
	Clay, silty, sandy, olive-gray; contains thin sand lenses; drills like silt-----	25	90
	Clay, silty, sandy, pebbly, olive-gray, dense-----	10	100
Pierre Formation:			
	Shale, olive-black, siliceous; contains light-bluish-gray to white bentonite-----	20	120

NDSWC 9195

LOCATION: 135-061-18AAA
 ALTITUDE: 1445
 (FT, MSL)

DATE DRILLED: 10/29/74
 DEPTH: 120
 (FT)



135-061-28CCB
 NDSWC 9489

Altitude: 1338 feet

Date drilled: 10/31/75

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
<u>Glacial drift:</u>			
	Sand, fine to very coarse, predominantly coarse, angular to subrounded, oxidized; contains about 40 percent fine to coarse gravel; the gravel is composed of about 40 percent carbonate, 30 percent shale, 20 percent igneous, and 10 percent quartz pebbles-----	10	10
	Sand, fine to very coarse, and about 50 percent fine to very coarse gravel; poorly sorted-----	37	47
	Clay, silty, sandy, pebbly, olive-gray (till)-----	13	60

135-061-29DAB
(Log from Farmer's Supply Co.)

		Date drilled: 9/30/71	
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Topsoil-----	4	4
	Clay, yellow-----	13	17
	Sand, fine-----	6	23
	Gravel, fine-----	14	37
	Gravel, fine to medium-----	19	56
	Gravel, fine-----	7	63
	Clay, rocky, grayish-blue-----	26	89
	Clay, gray, soft-----	4	93
	Sand, fine-----	5	98
	Gravel, fine-----	7	105
	Gravel, medium to coarse-----	21	126

135-061-33BAB
USBR L-32

Altitude: 1318 feet		Date drilled: 8/04/67	
Glacial drift:			
	Loam, sandy-----	2	2
	Sand, coarse; gravel-----	23	25

135-061-33BBB
NDSWC 9488

Altitude: 1354 feet		Date drilled: 10/31/75	
Glacial drift:			
	Gravel, fine to very coarse, poorly sorted, angular to subangular, rocky, oxidized-----	40	40

135-061-33CDC
(Log from Beitz Pump Service)

		Date drilled: 4/20/71	
Glacial drift:			
	Clay, yellow and blue-----	60	60
	Gravel, sandy-----	22	82
	Gravel, rocky-----	2	84

135-062-03BAB
USBR L-35

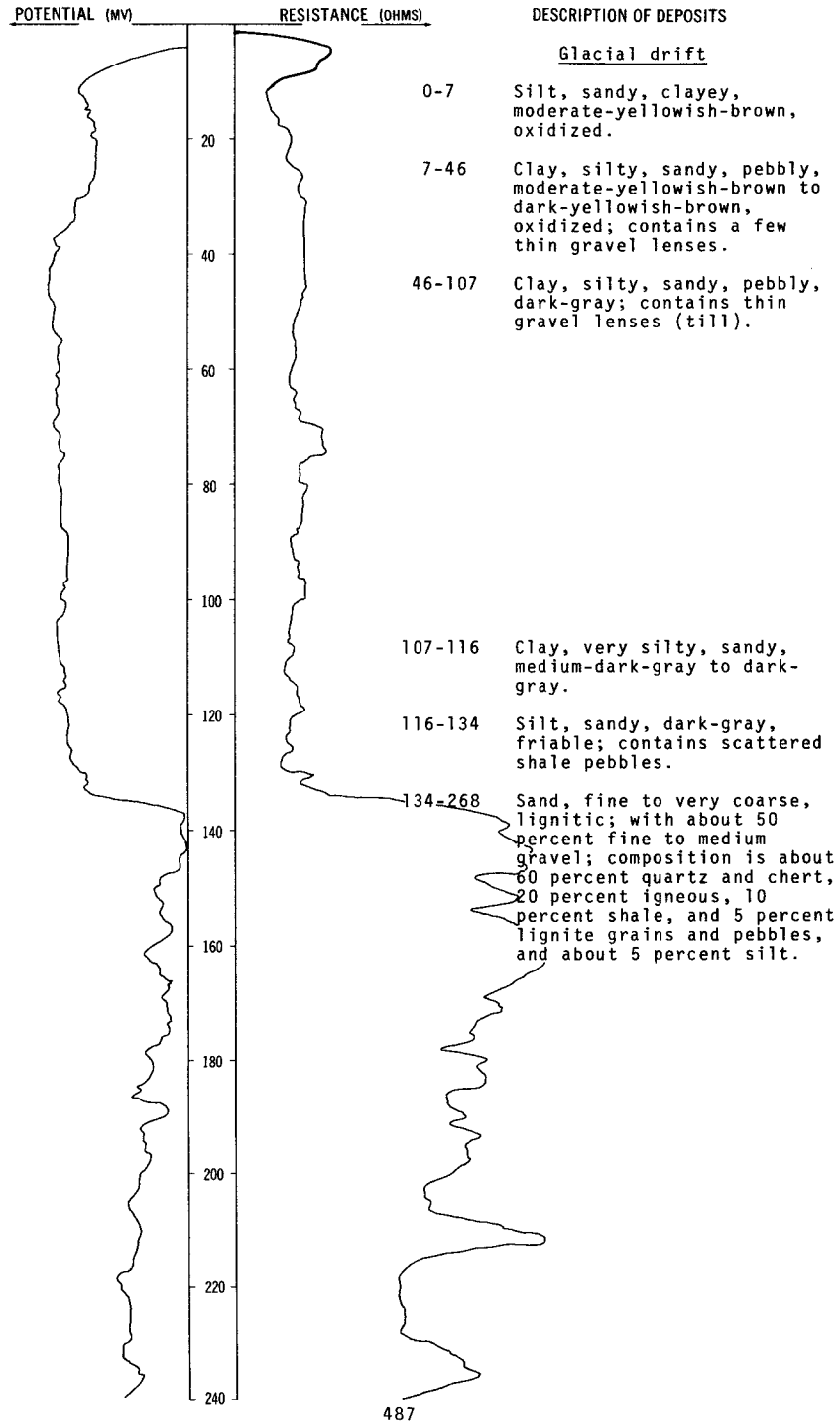
Altitude: 1329 feet		Date drilled: 8/08/67	
Glacial drift:			
	Loam, silty-----	3	3
	Loam, silty, clayey-----	19	22

LOCATION: 135-062-07DDD

DATE DRILLED: 10/30/74

ALTITUDE: 1452
(FT, MSL)

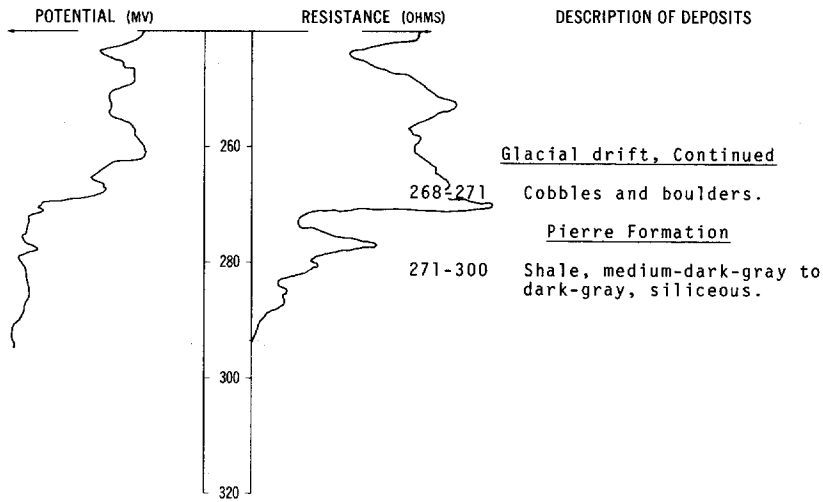
DEPTH: 300
(FT)



NDSWC 9198, Continued

LOCATION: 135-062-07DDD
 ALTITUDE: 1452
 (FT, MSL)

DATE DRILLED: 10/30/74
 DEPTH: 300
 (FT)



135-062-11DDD1
 USBR L-33

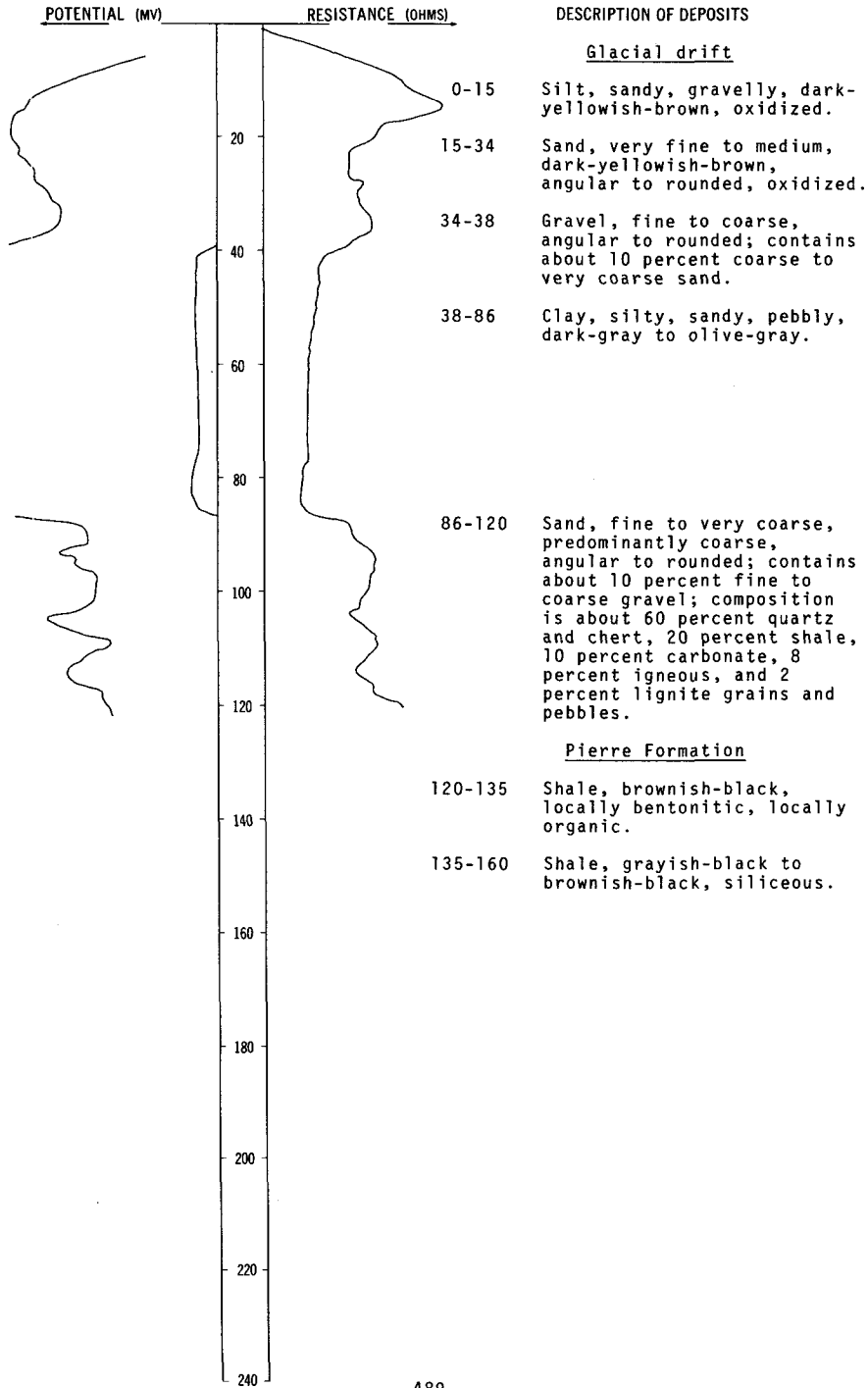
Altitude: 1327 feet

Date drilled: 8/08/67

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Loam, silty-----	1	1
	Loam, silty, clayey, limey-----	8	9
	Loam, sandy, clayey (till)-----	11	20

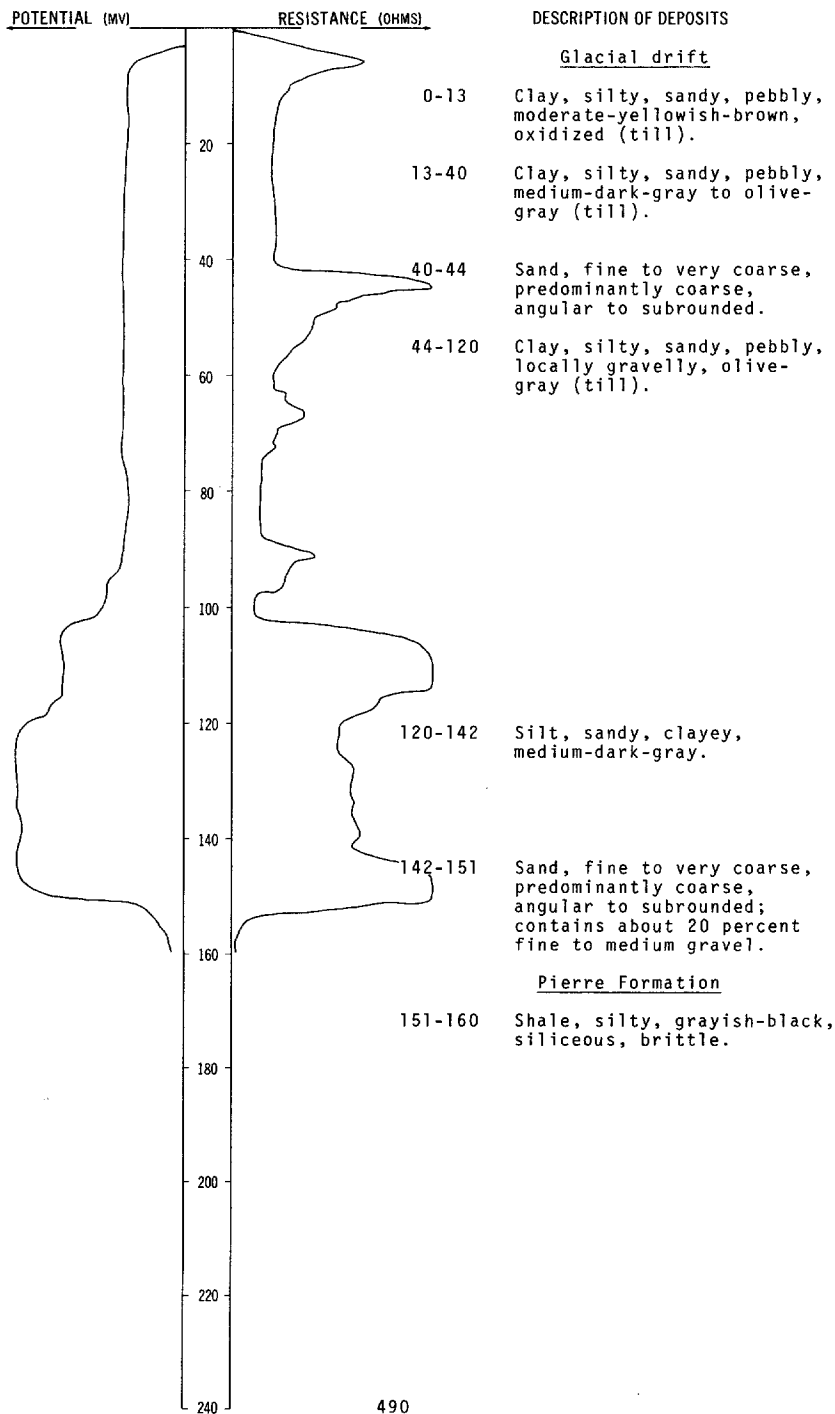
LOCATION: 135-062-110DD2
 ALTITUDE: 1350
 (FT, MSL)

DATE DRILLED: 10/29/74
 DEPTH: 160
 (FT)



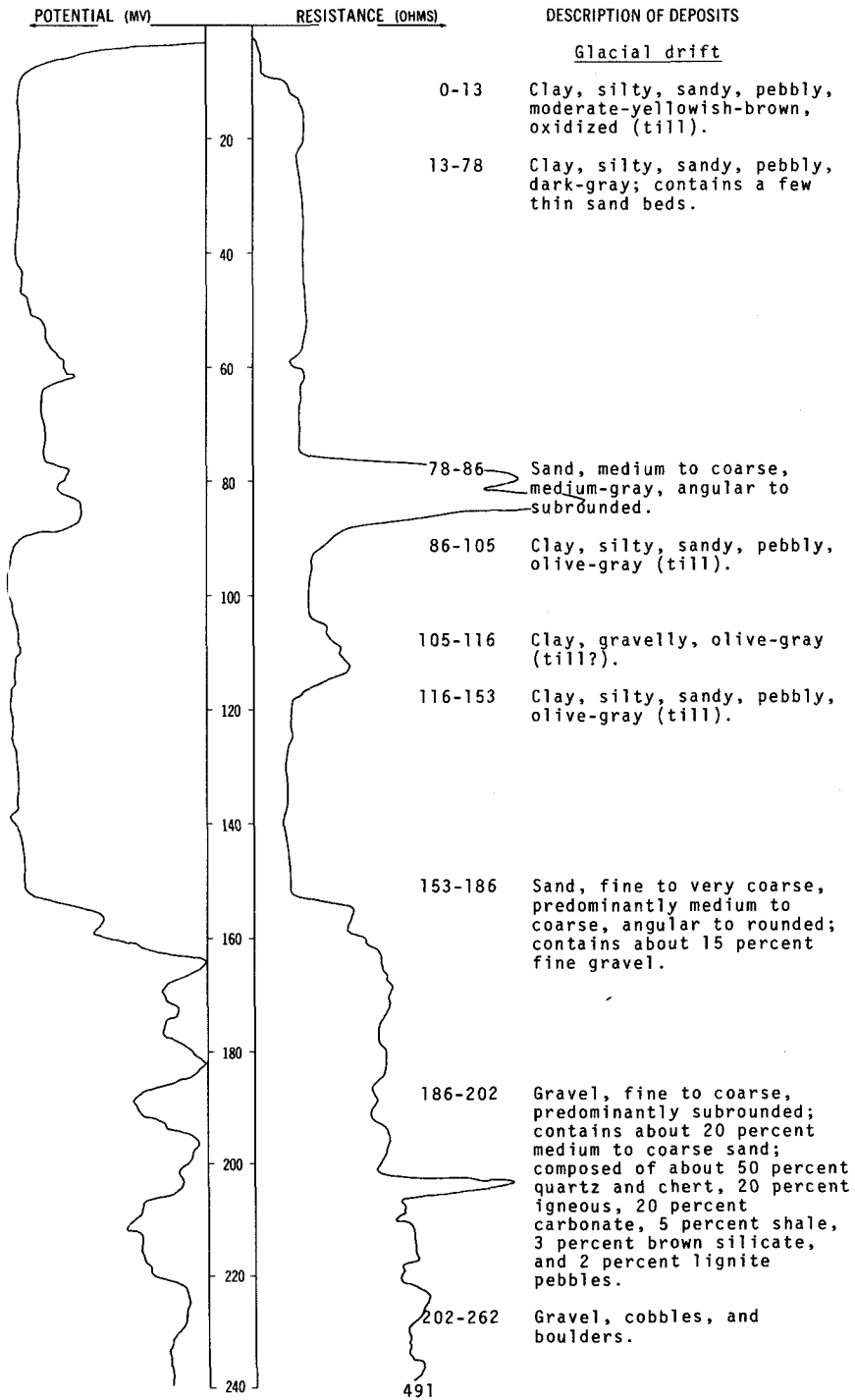
LOCATION: 135-062-12DDD
 ALTITUDE: 1445
 (FT, MSL)

DATE DRILLED: 11/04/75
 DEPTH: 160
 (FT)



LOCATION: 135-062-16AAA
 ALTITUDE: 1462
 (FT, MSL)

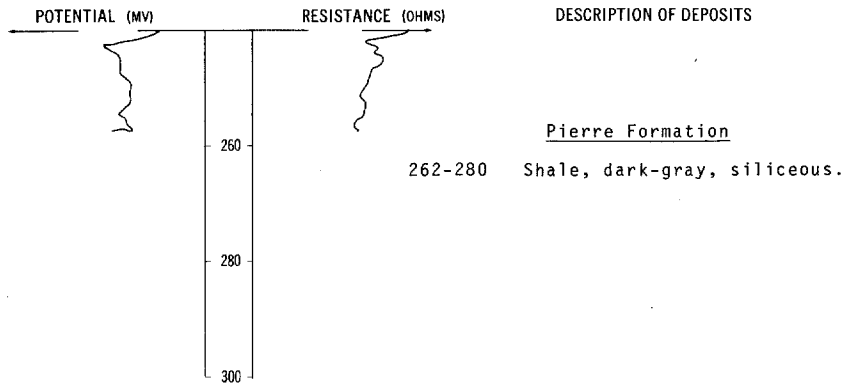
DATE DRILLED: 10/30/74
 DEPTH: 280
 (FT)



NDSWC 9197, Continued

LOCATION: 135-062-16AAA
 ALTITUDE: 1462
 (FT, MSL)

DATE DRILLED: 10/30/74
 DEPTH: 280
 (FT)



135-062-23BAB
 USBR L-30

Altitude: 1329 feet

Date drilled: 8/01/67

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Loam, sandy-----	2	2
	Sand, coarse, well-graded; gravel-----	28	30

135-062-26BBB
 USBR L-29

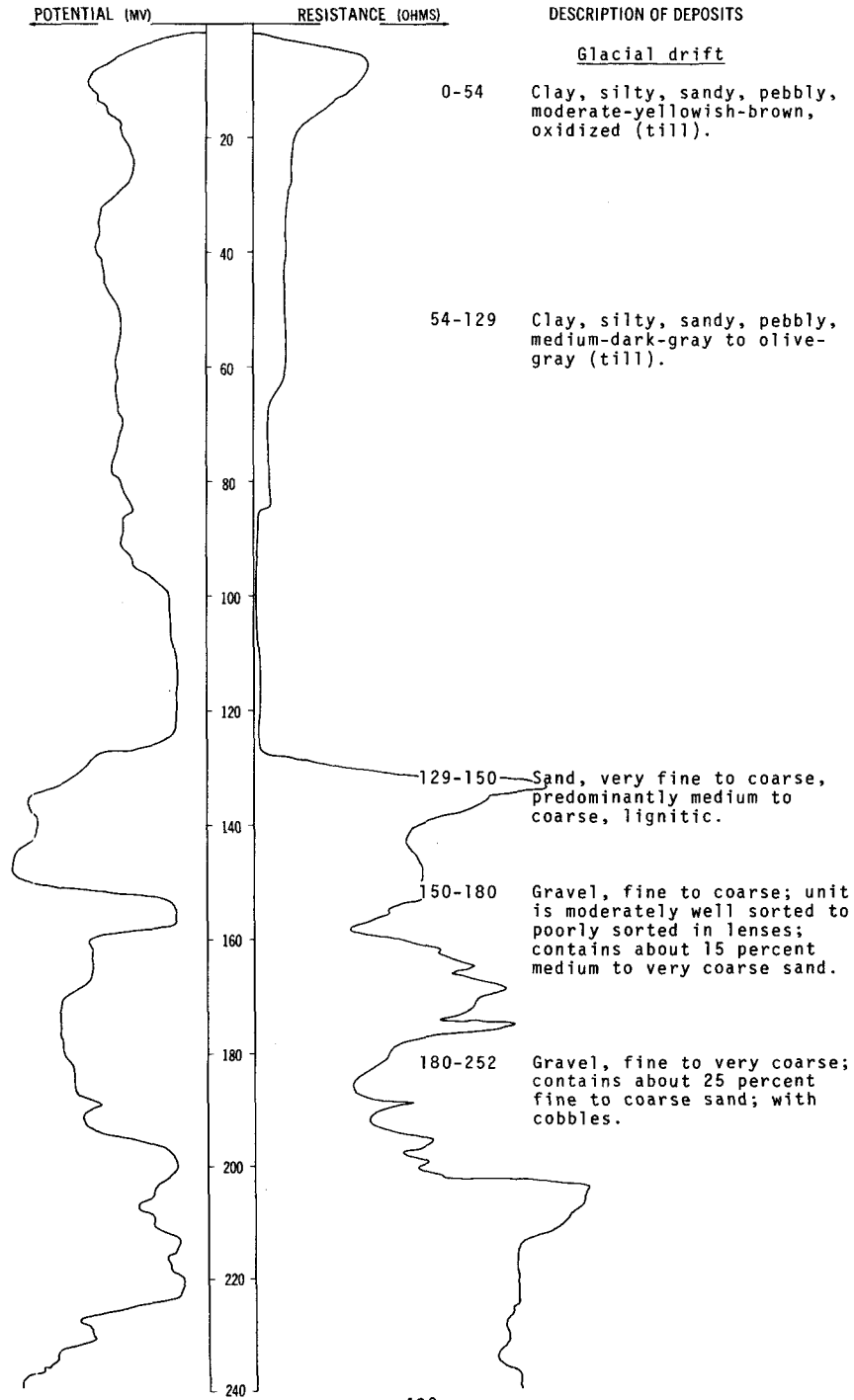
Altitude: 1339 feet

Date drilled: 8/01/67

Glacial drift:			
	Loam, very fine, sandy, silty-----	9	9
	Sand, very coarse; gravel-----	10	19
	Loam, silty-----	6	25
	Loam, silty, clayey, sand lenses-----	10	35

LOCATION: 135-063-13AAA
ALTITUDE: 1455
(FT, MSL)

DATE DRILLED: 11/04/75
DEPTH: 280
(FT)



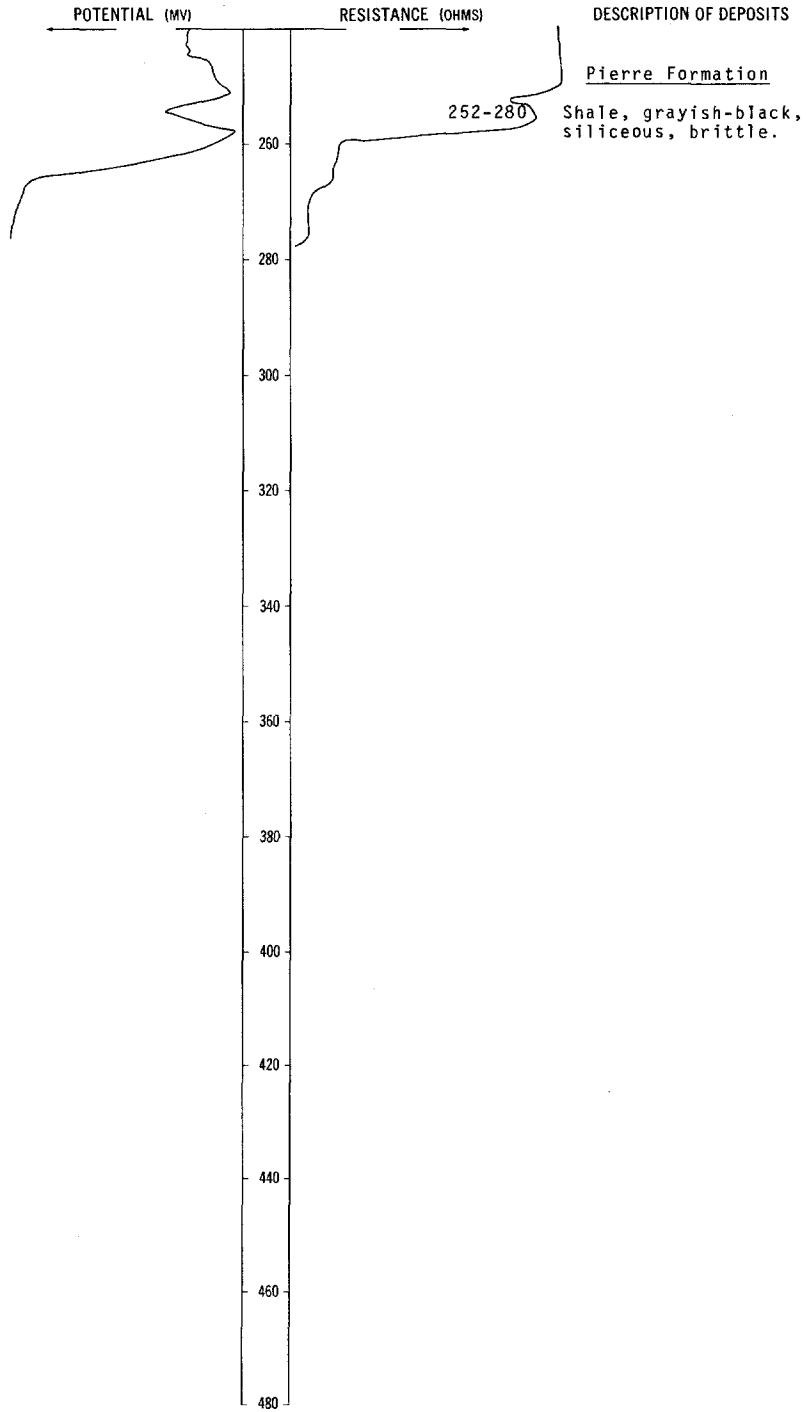
NDSWC 9492, Continued

LOCATION: 135-063-13AAA

DATE DRILLED: 11/04/75

ALTITUDE: 1455
(FT, MSL)

DEPTH: 280
(FT)



LOCATION: 135-063-14BAA

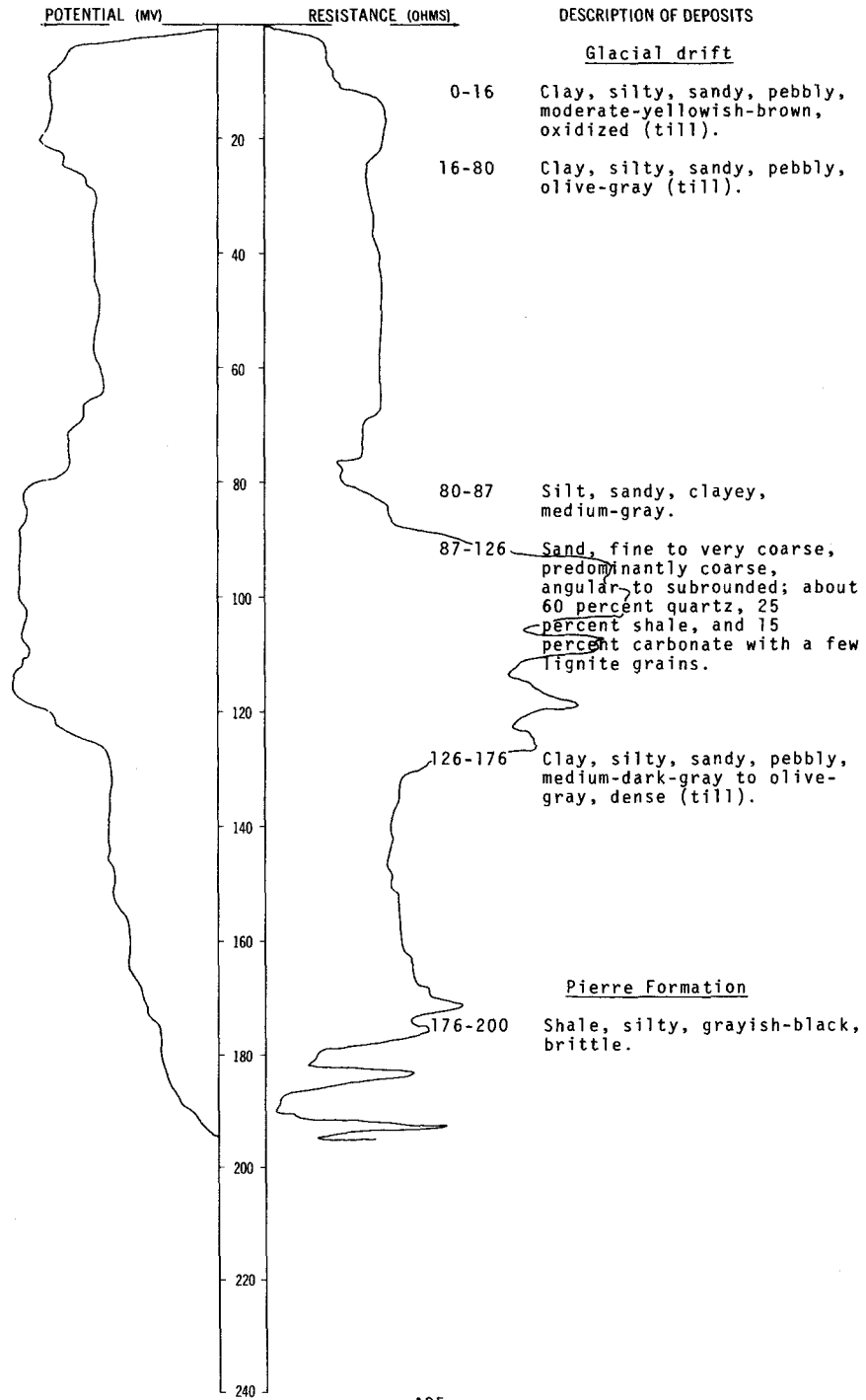
DATE DRILLED: 11/05/75

ALTITUDE: 1475

DEPTH: 200

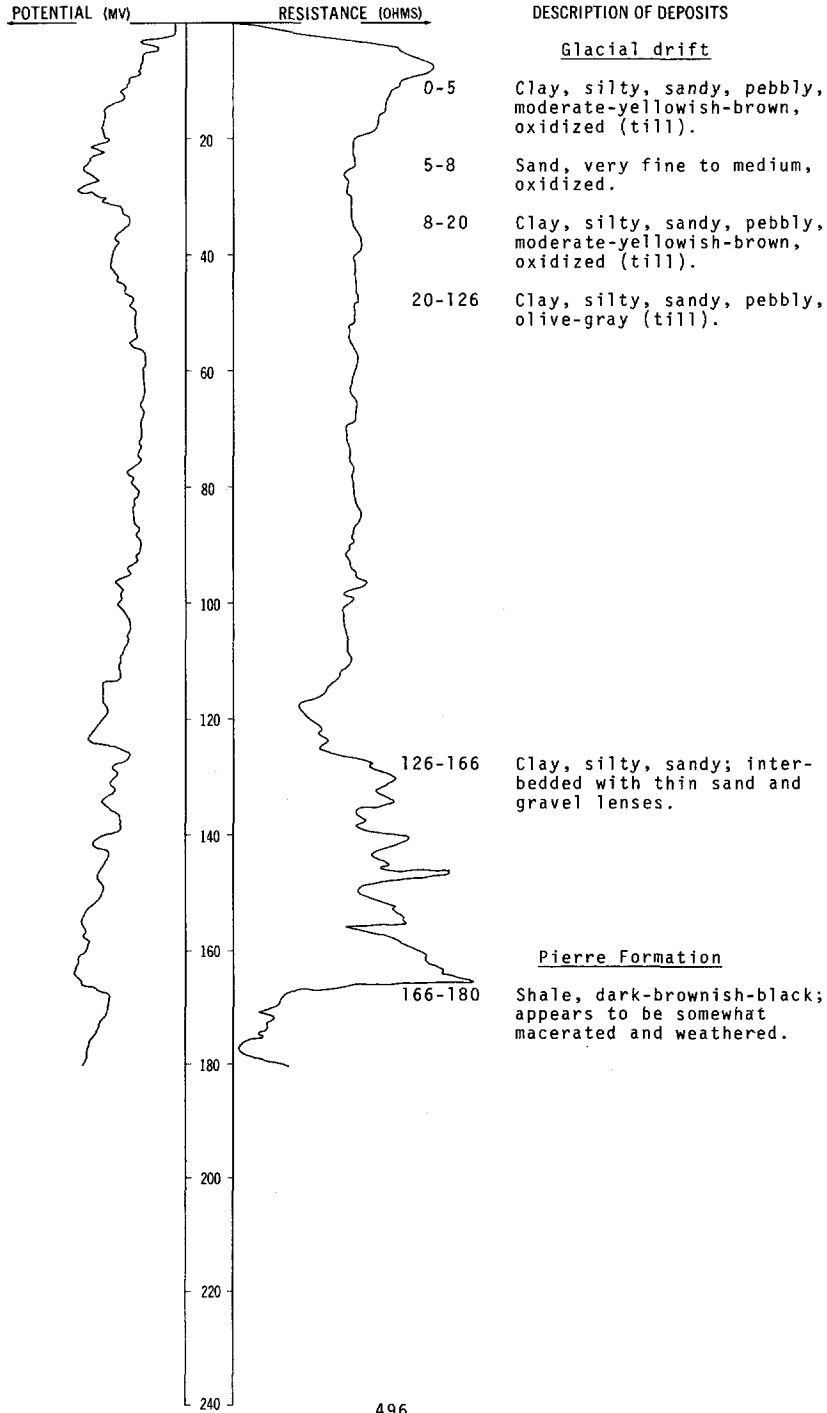
(FT, MSL)

(FT)



LOCATION: 135-063-17DDD
ALTITUDE: 1430
(FT, MSL)

DATE DRILLED: 6/03/76
DEPTH: 180
(FT)

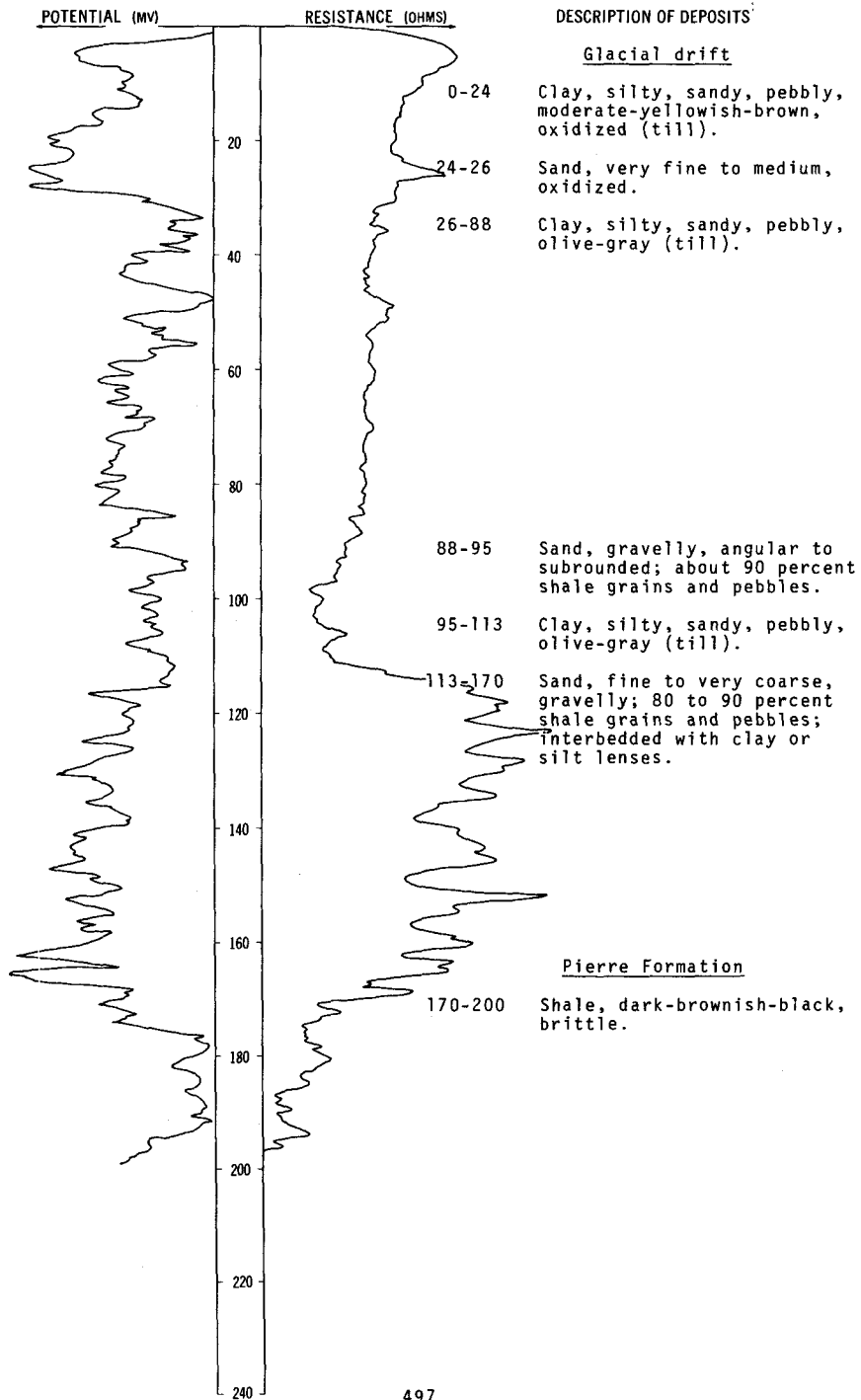


LOCATION: 135-063-20DDD

DATE DRILLED: 6/03/76

ALTITUDE: 1435
(FT, MSL)

DEPTH: 200
(FT)



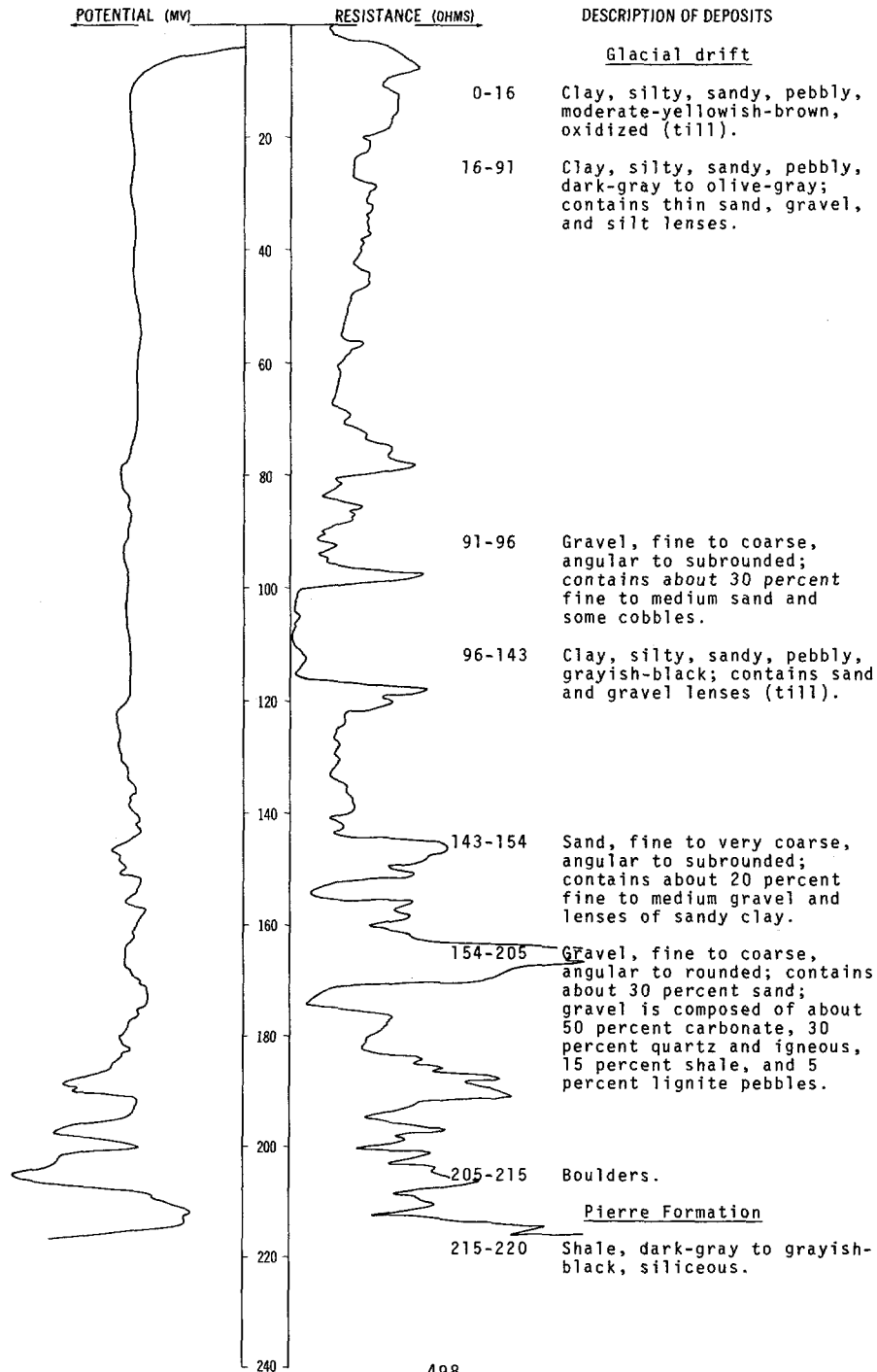
NDSWC 9199

LOCATION: 135-063-23CCC

DATE DRILLED: 10/30/74

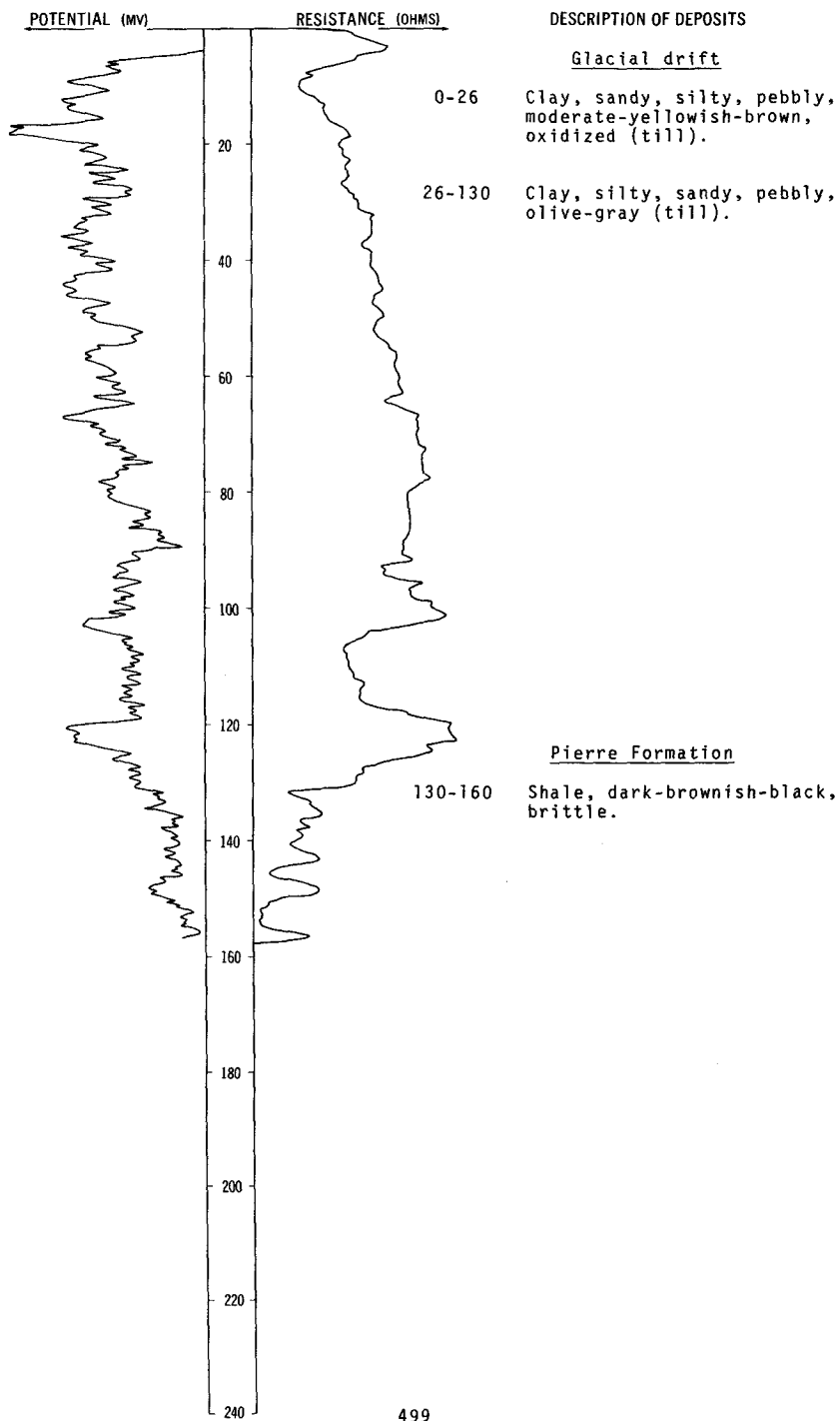
ALTITUDE: 1485
(FT, MSL)

DEPTH: 220
(FT)



LOCATION: 135-063-28CCC
ALTITUDE: 1440
(FT, MSL)

DATE DRILLED: 6/03/76
DEPTH: 160
(FT)



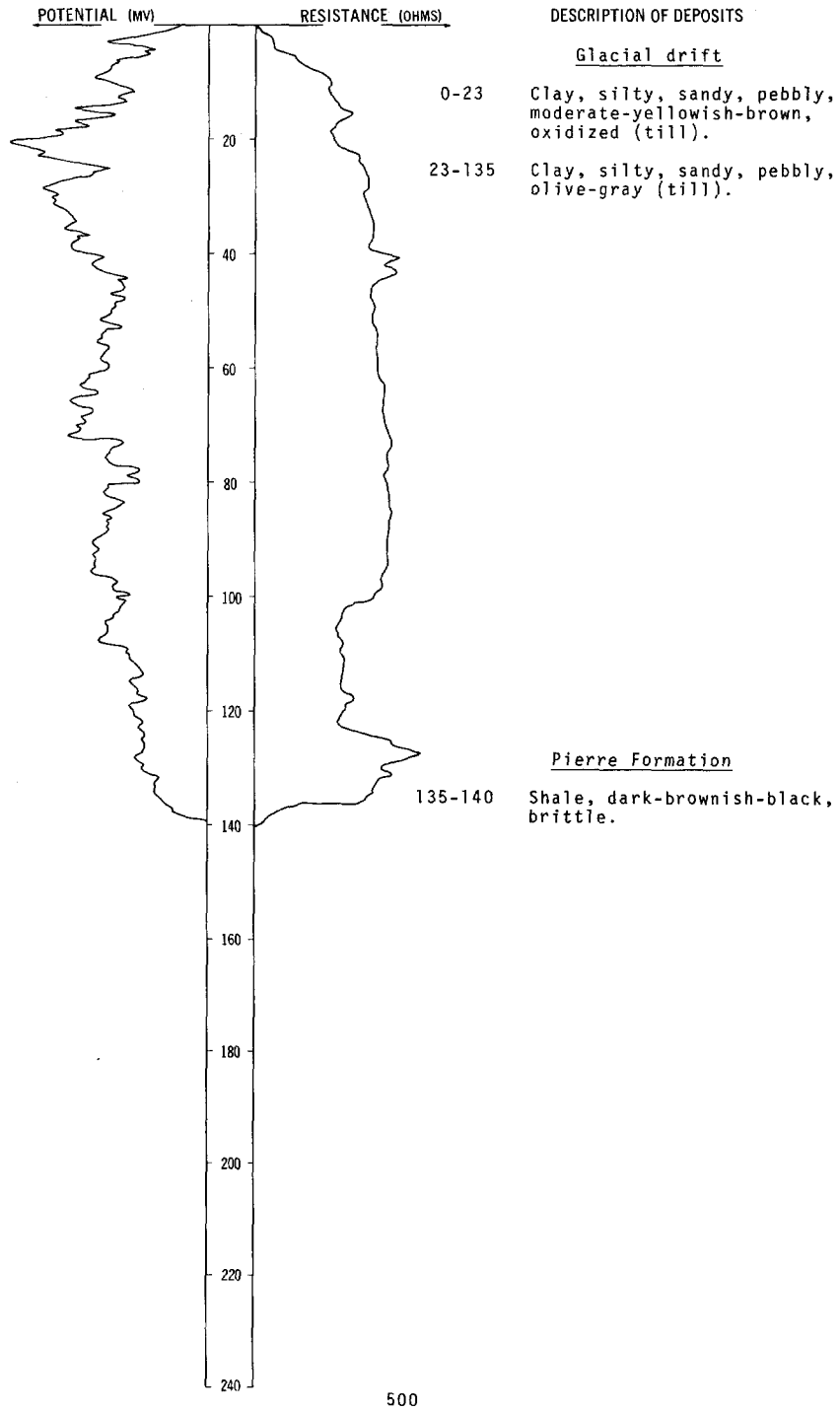
NDSWC 9576

LOCATION: 135-063-33CCC

DATE DRILLED: 6/02/76

ALTITUDE: 1445
(FT, MSL)

DEPTH: 140
(FT)

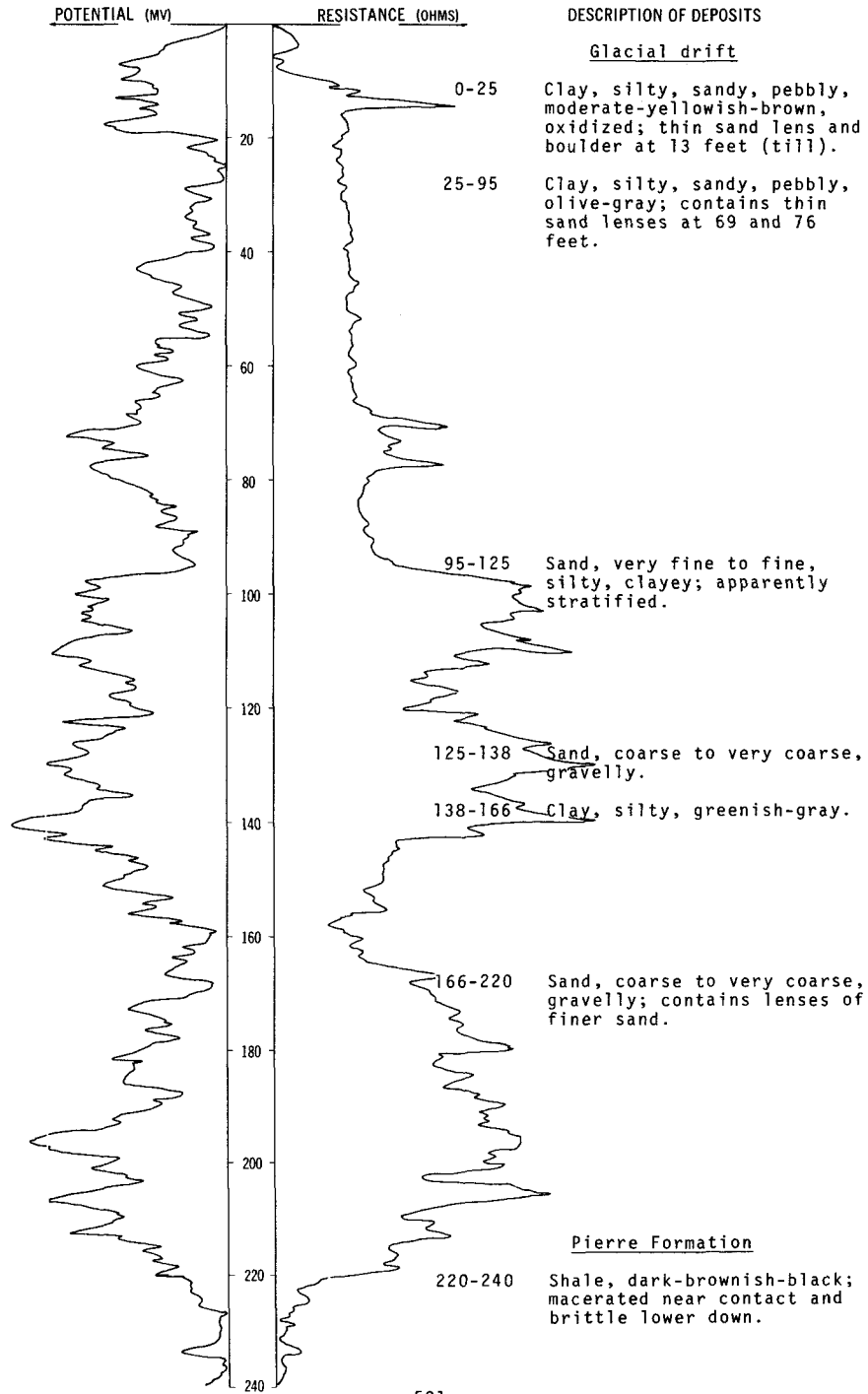


LOCATION: 135-063-36BBB1

DATE DRILLED: 6/04/76

ALTITUDE: 1475
(FT, MSL)

DEPTH: 240
(FT)

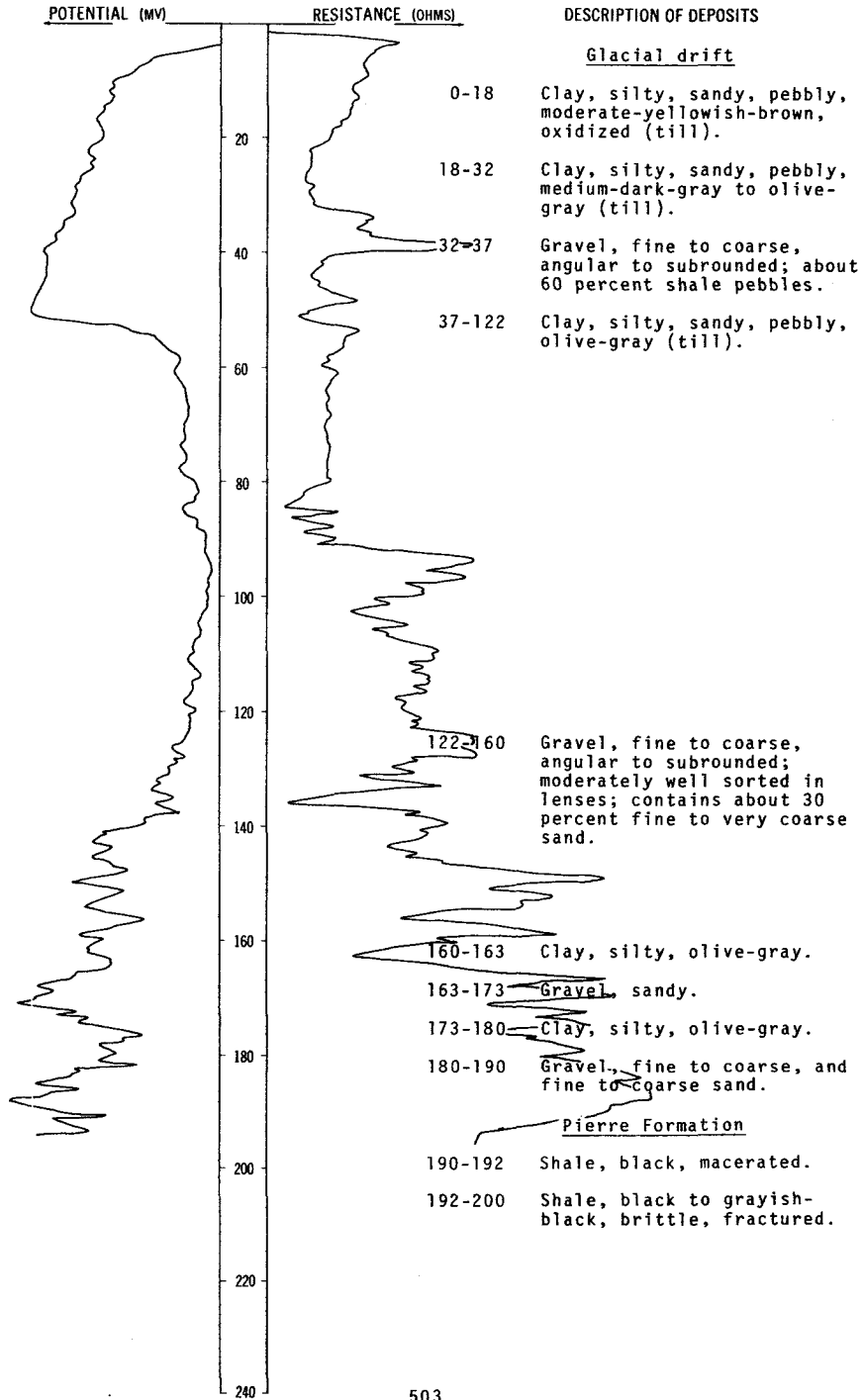


135-064-030DD
(Log from Russell Drilling Co.)

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil-----	5	5
	Till, yellow-----	16	21
	Till, gray-----	112	133
	Gravel, medium, sand, fine, blue-----	9	142
	Sand, blue-----	3	145
	Shale, bedrock-----	105	250

LOCATION: 135-064-23CCD
 ALTITUDE: 1510
 (FT. MSL)

DATE DRILLED: 11/12/75
 DEPTH: 200
 (FT)



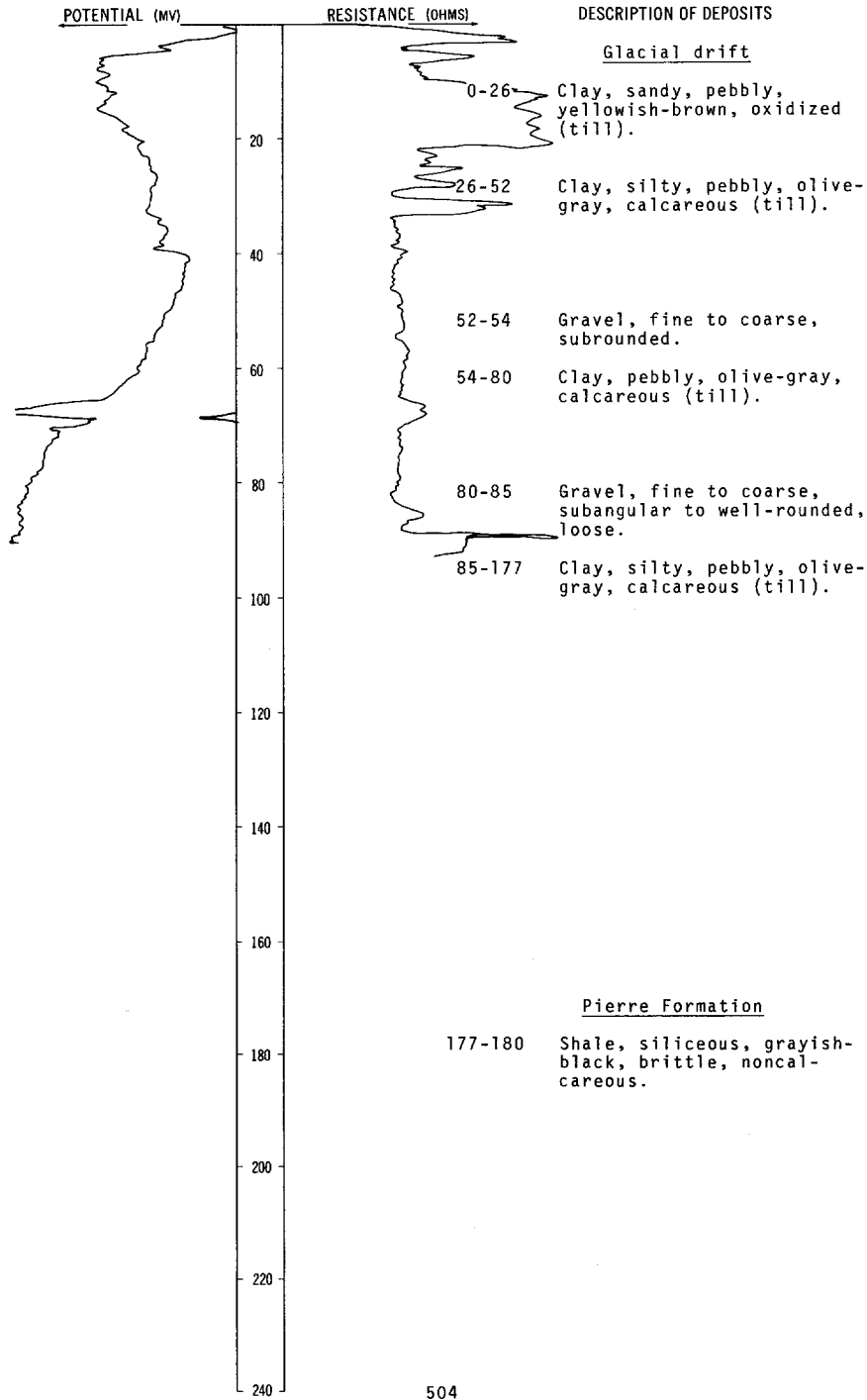
Test hole 8735
(Log from Naplin, 1976)

LOCATION: 135-064-31DDD

DATE DRILLED: 7/12/73

ALTITUDE: 1560
(FT, MSL)

DEPTH: 180
(FT)



135-065-04CCA
(Log from Carlson Drilling)

Date drilled: 11/15/72

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Topsoil-----	1	1
	Clay, yellow-----	31	32
	Clay, blue-----	48	80
	Sand, coarse-----	3	83

135-065-12BDB
(Log from Traut Wells, Inc.)

Date drilled: 12/11/74

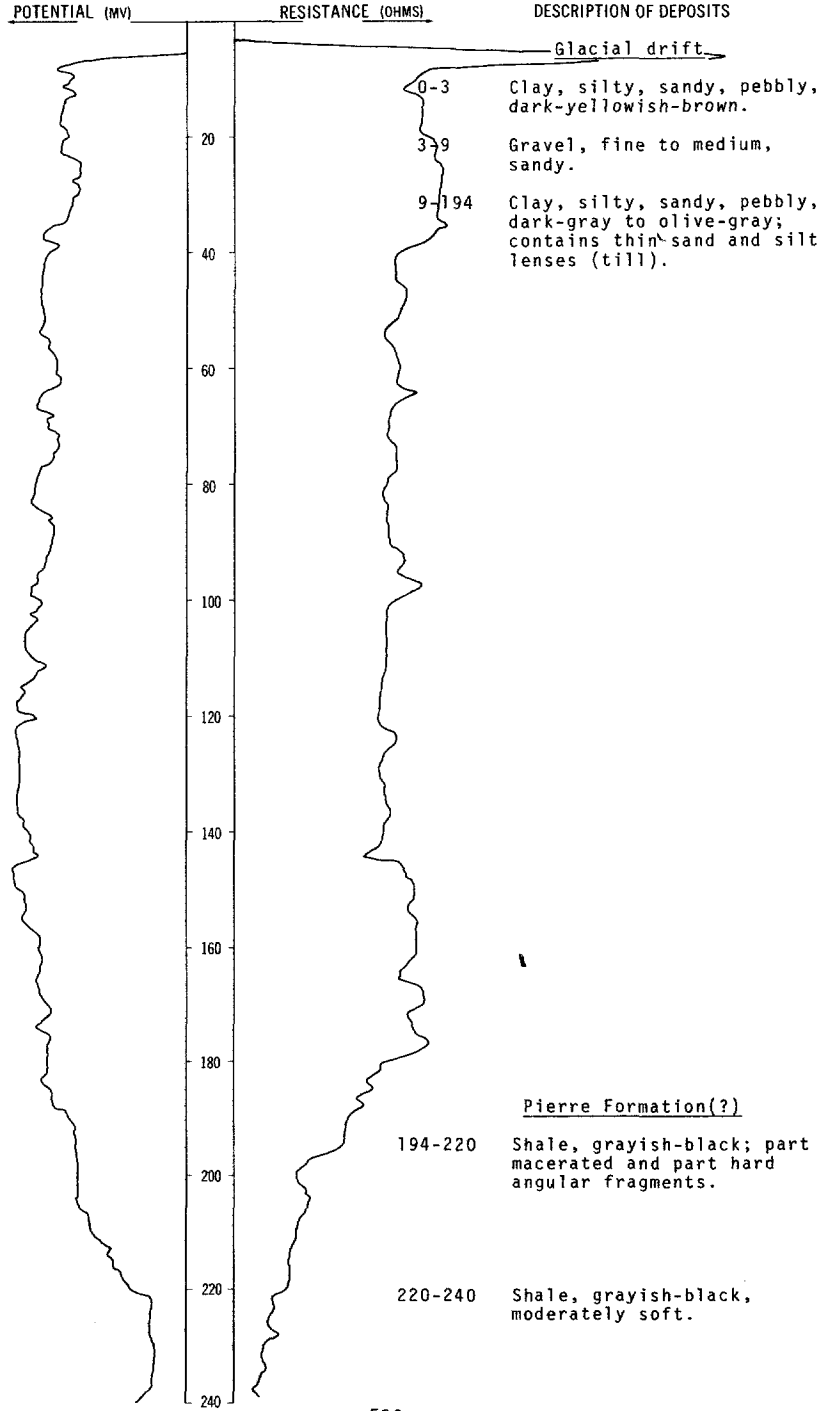
	Clay, brown-----	43	43
	Clay, gray-----	24	67
	Clay, sandy, gray-----	5	72
	Clay, gray-----	87	159
	Sand, gray-----	2	161
	Clay, gray-----	19	180
	Sand, gray-----	2	182
	Clay, gray-----	6	188

LOCATION: 135-065-15C0C

DATE DRILLED: 10/17/74

ALTITUDE: 1332
(FT, MSL)

DEPTH: 240
(FT)



135-065-23AAD
(Log from Beitz Pump Service)

Date drilled: 3/06/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Dirt, black-----	5	5
	Clay, yellow-----	21	26
	Clay, blue-----	44	70
	Clay, blue, and fine sand-----	22	92
	Clay, gravelly, blue-----	1	93
	Clay, sandy, blue-----	7	100
	Clay, blue-----	10	110
	Clay, sandy, blue-----	1	111
	Clay, gravelly, blue-----	4	115
	Clay, blue-----	26	141
	Sand-----	3	144

135-065-28BBD
(Log from Carlson Drilling)

Date drilled: 9/27/72

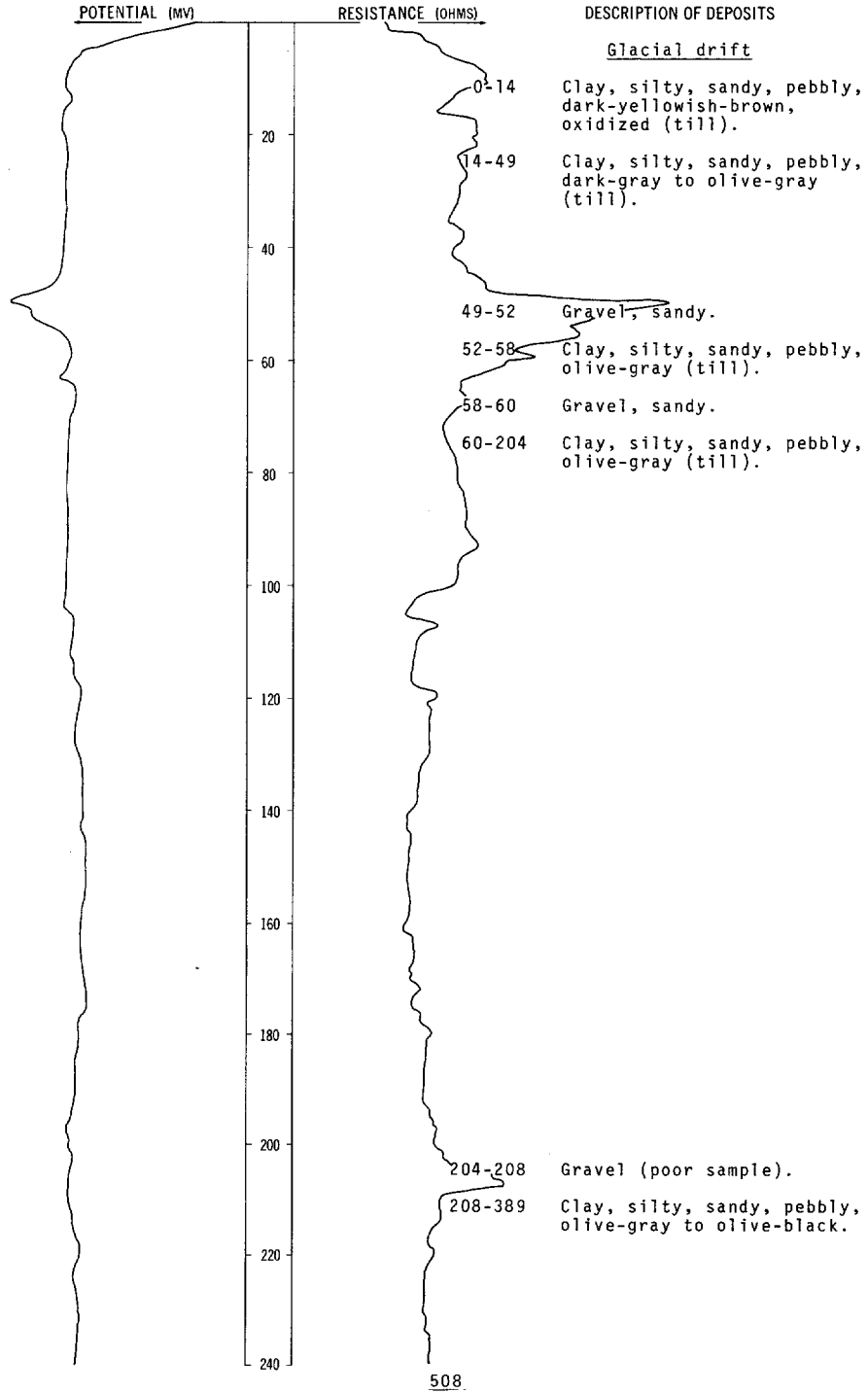
	Topsoil-----	1	1
	Sand, clayey, yellow-----	39	40
	Clay, blue-----	61	101
	Sand, water-----	5	106

LOCATION: 135-066-07AAB

DATE DRILLED: 10/18/74

ALTITUDE: 1735
(FT, MSL)

DEPTH: 600
(FT)



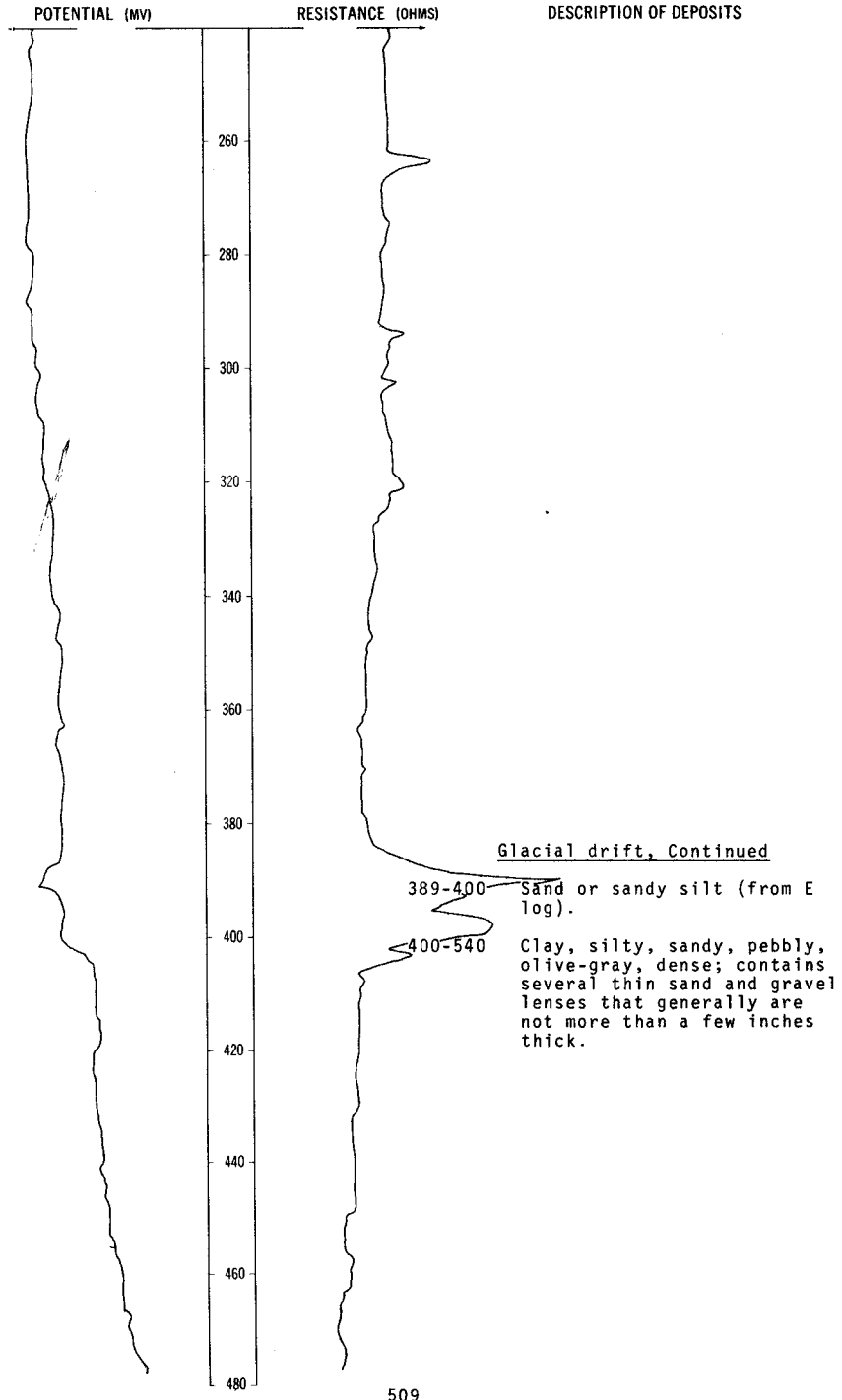
NDSWC 9174, Continued

LOCATION: 135-066-07AAB

DATE DRILLED: 10/18/74

ALTITUDE: 1735
(FT, MSL)

DEPTH: 600
(FT)



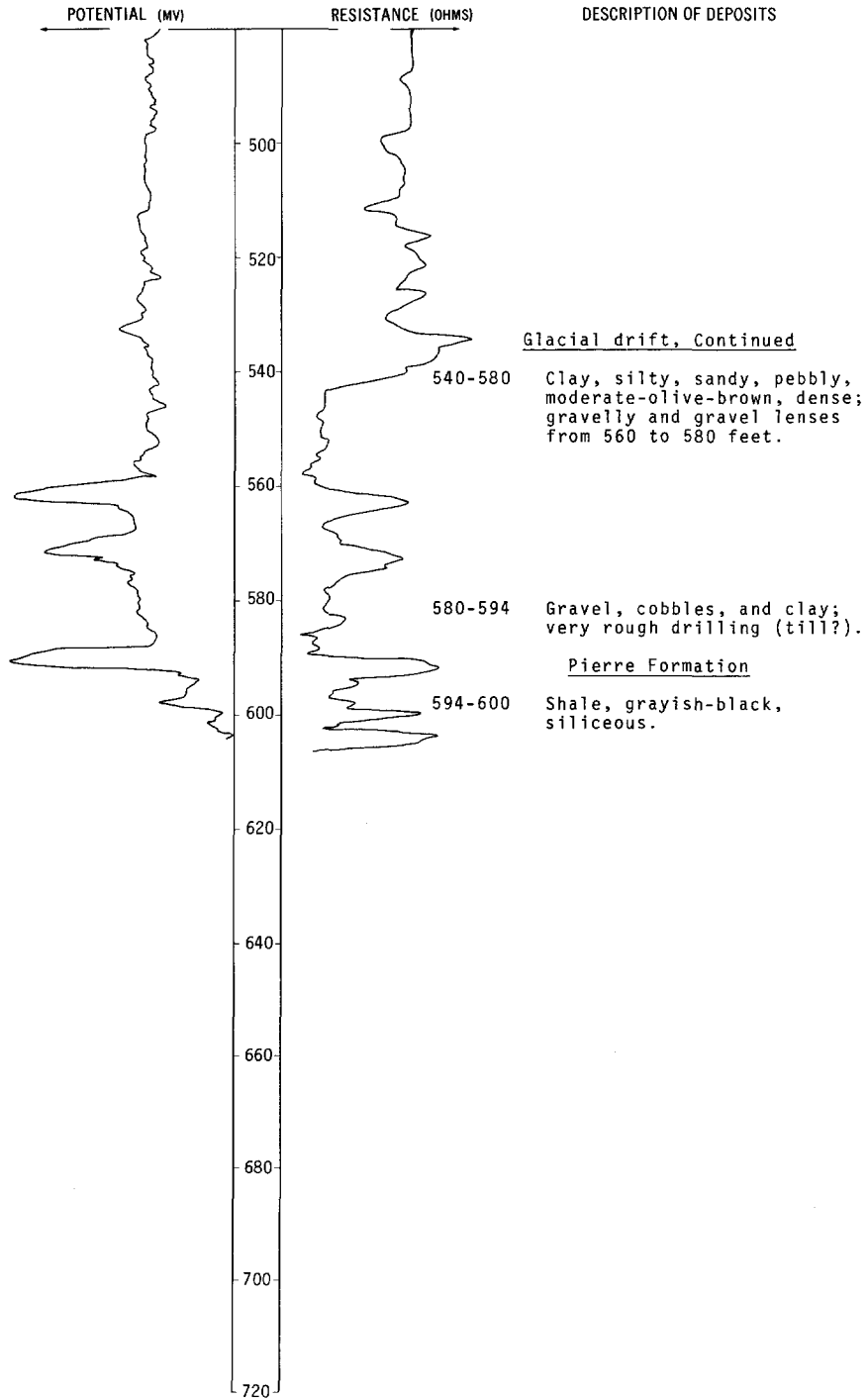
NDSWC 9174, Continued

LOCATION: 135-066-07AAB

DATE DRILLED: 10/18/74

ALTITUDE: 1735
(FT, MSL)

DEPTH: 600
(FT)



136-059-01DDD
NDSWC 9189

Altitude: 1408 feet

Date drilled: 10/25/74

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:	Gravel, fine to coarse, dark-gray, oxidized; contains about 40 percent fine to very coarse sand; composed of about 55 percent shale, 25 percent quartz and igneous, and 20 percent carbonate pebbles and grains-----	8	8
Pierre Formation:	Shale, dark-gray, siliceous; macerated in upper few feet, fractured in the middle, and bentonitic in the lower part-----	32	40

136-059-06CCC
NDSWC 9487

Altitude: 1449 feet

Date drilled: 10/31/75

Glacial drift:	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	20	20
	Sand, fine to very coarse, predominantly coarse, angular to subrounded-----	4	24
	Clay, silty, sandy, pebbly, medium-dark-gray to olive-gray (till)-----	40	64
Pierre Formation:	Shale, silty, grayish-black, brittle-----	16	80

136-059-30BBB
NDSWC 9481

Altitude: 1468 feet

Date drilled: 10/27/75

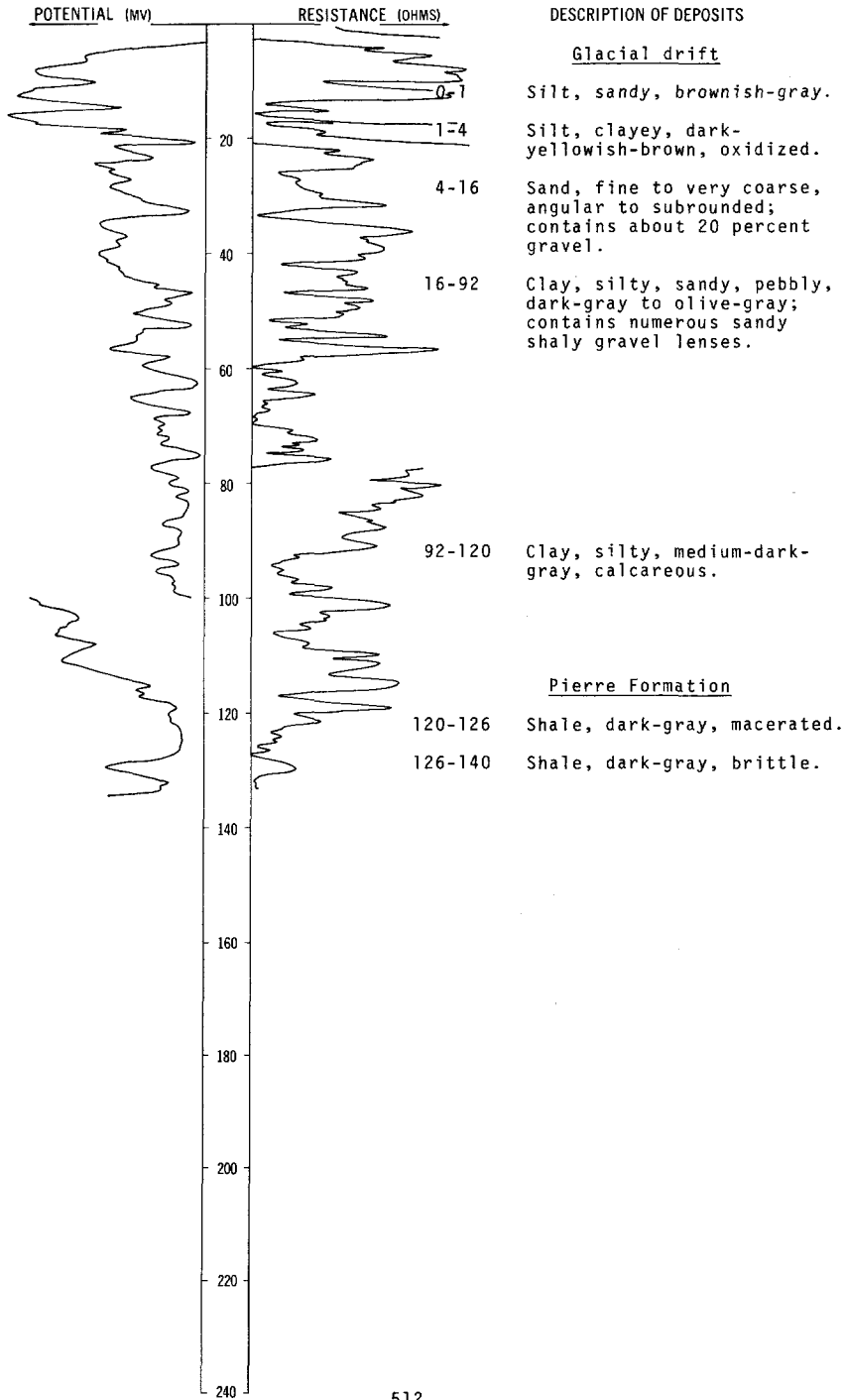
Glacial drift:	Clay, silty, sandy, pebbly, moderate-yellowish-brown (till)-----	21	21
	Clay, silty, sandy, pebbly, medium-dark-gray to olive-gray-----	76	97
Pierre Formation:	Shale, brownish-black, brittle, fractured-----	23	120

LOCATION: 136-060-06CCB

DATE DRILLED: 10/25/74

ALTITUDE: 1442
(FT, MSL)

DEPTH: 140
(FT)

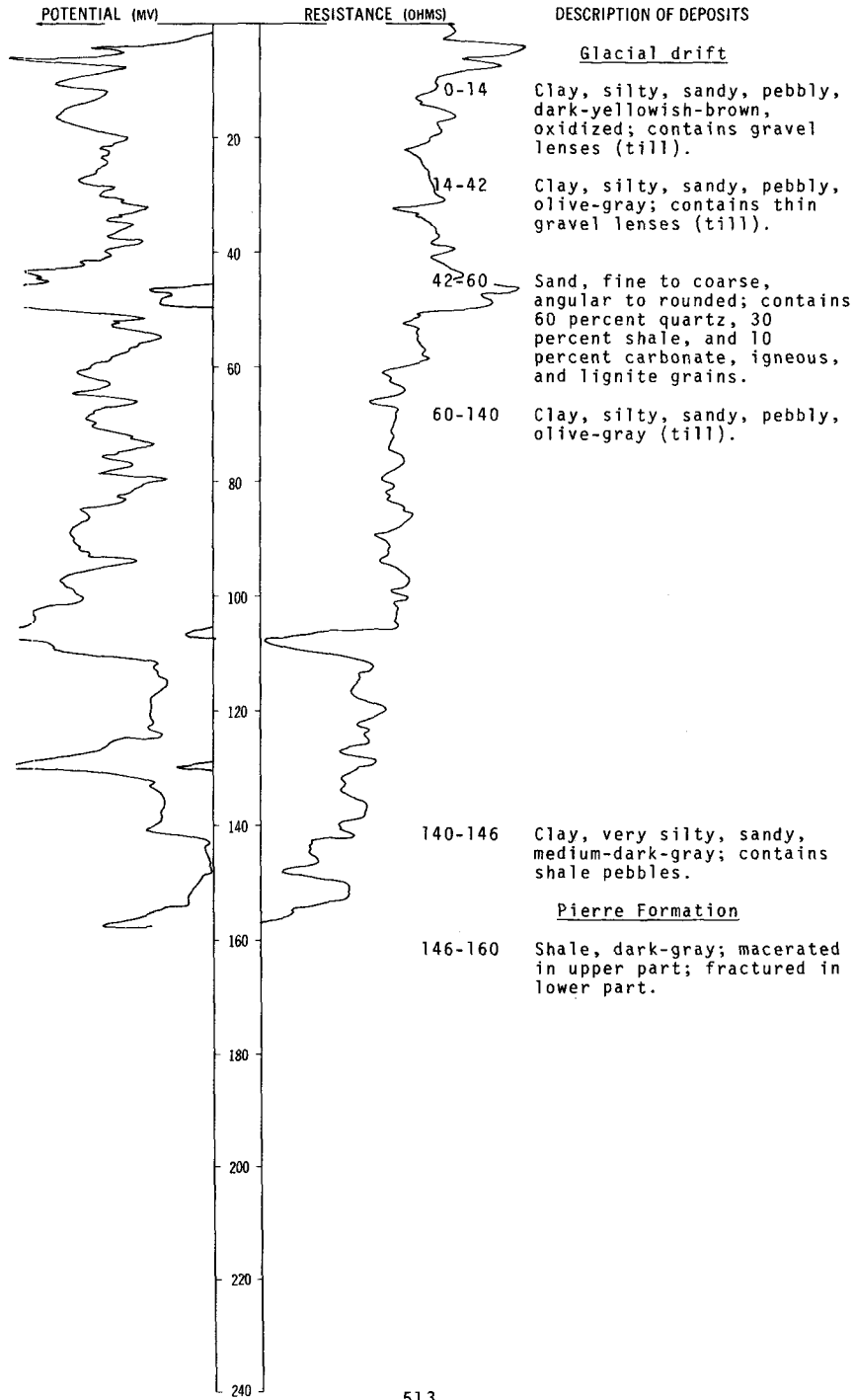


LOCATION: 136-060-09BBB

DATE DRILLED: 10/25/74

ALTITUDE: 7455
(FT. MSL)

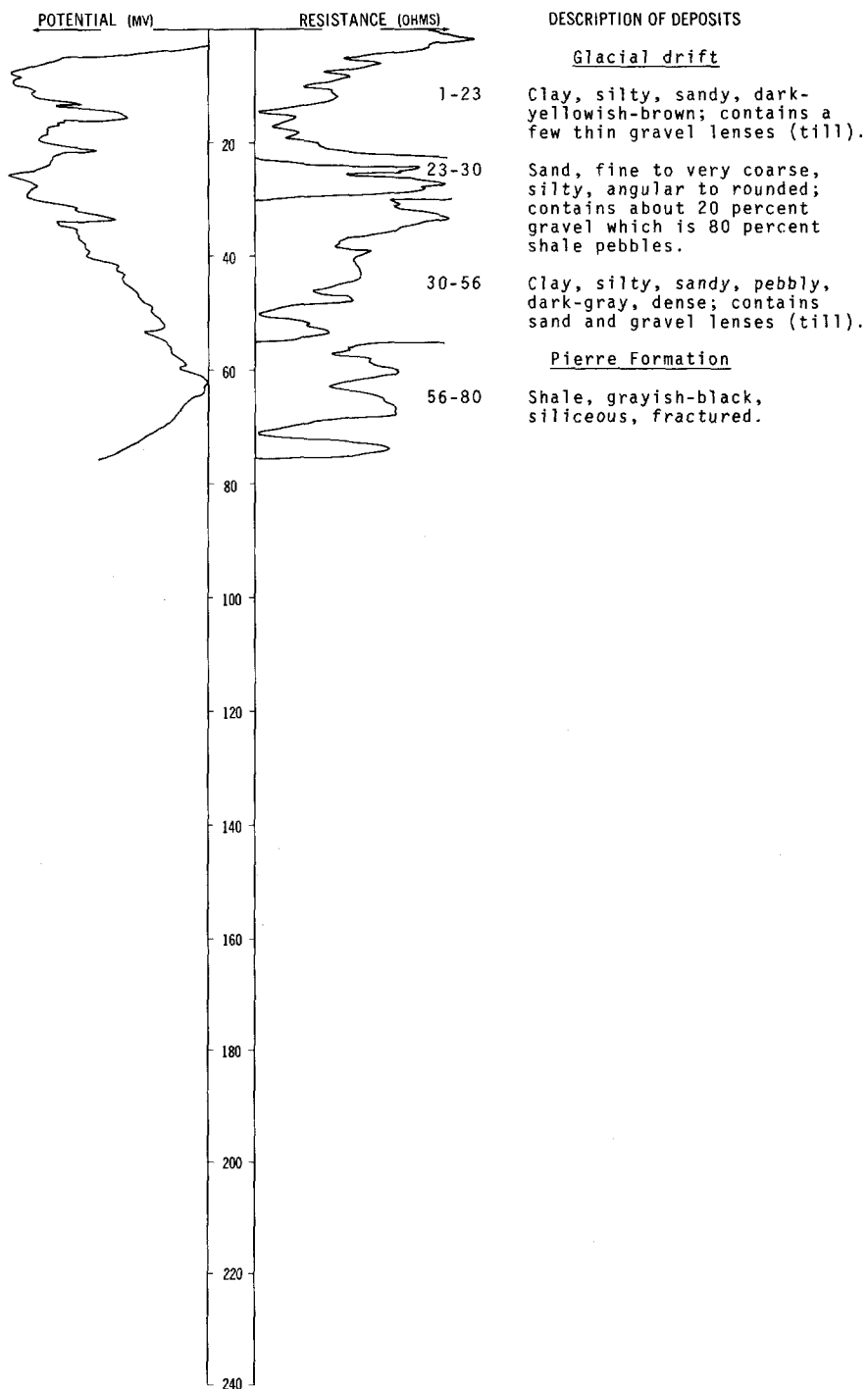
DEPTH: 160
(FT)



NDSWC 9186

LOCATION: 136-061-04DDD
ALTITUDE: 1465
(FT, MSL)

DATE DRILLED: 10/25/74
DEPTH: 80
(FT)

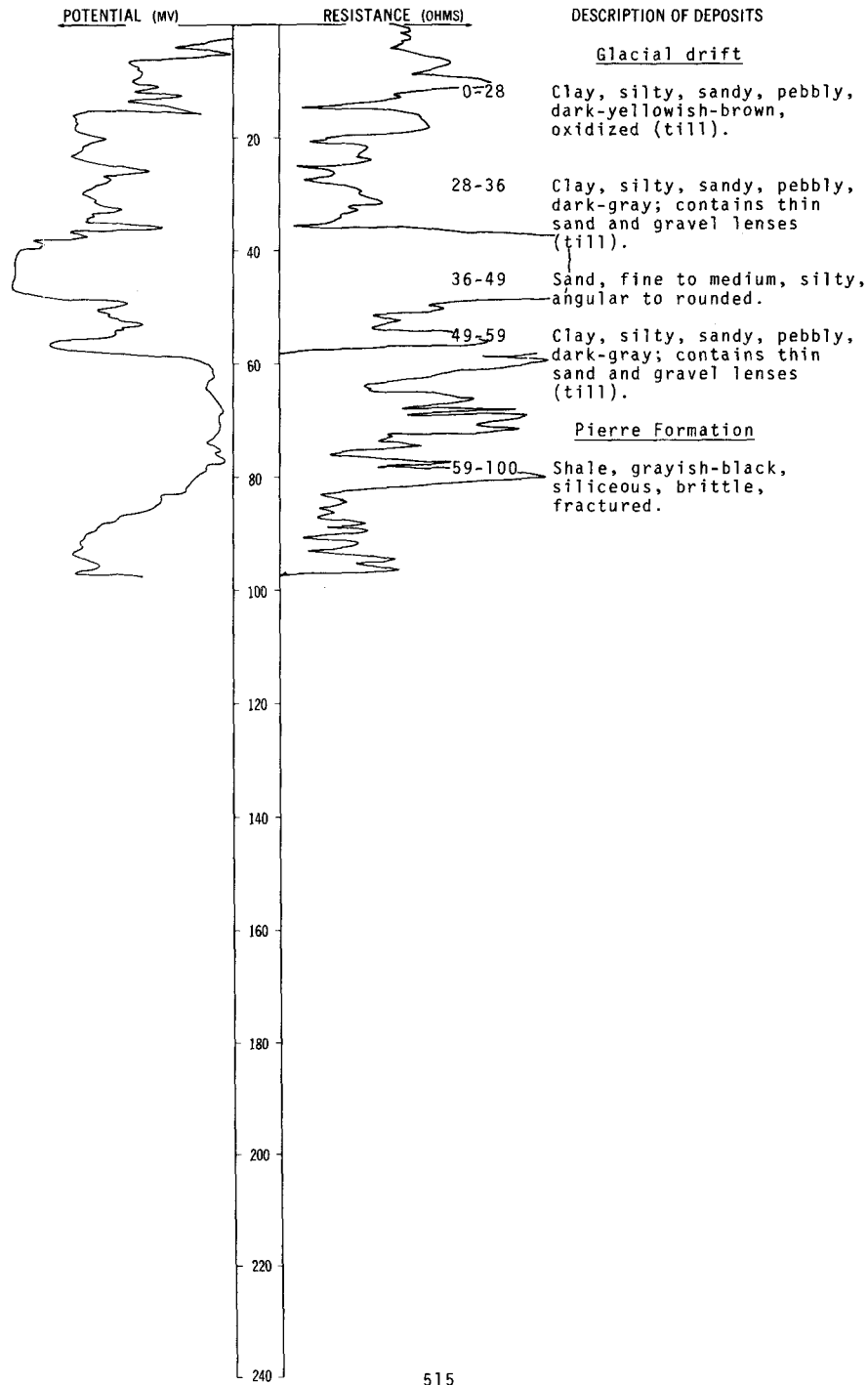


LOCATION: 136-062-01CCC

DATE DRILLED: 10/24/74

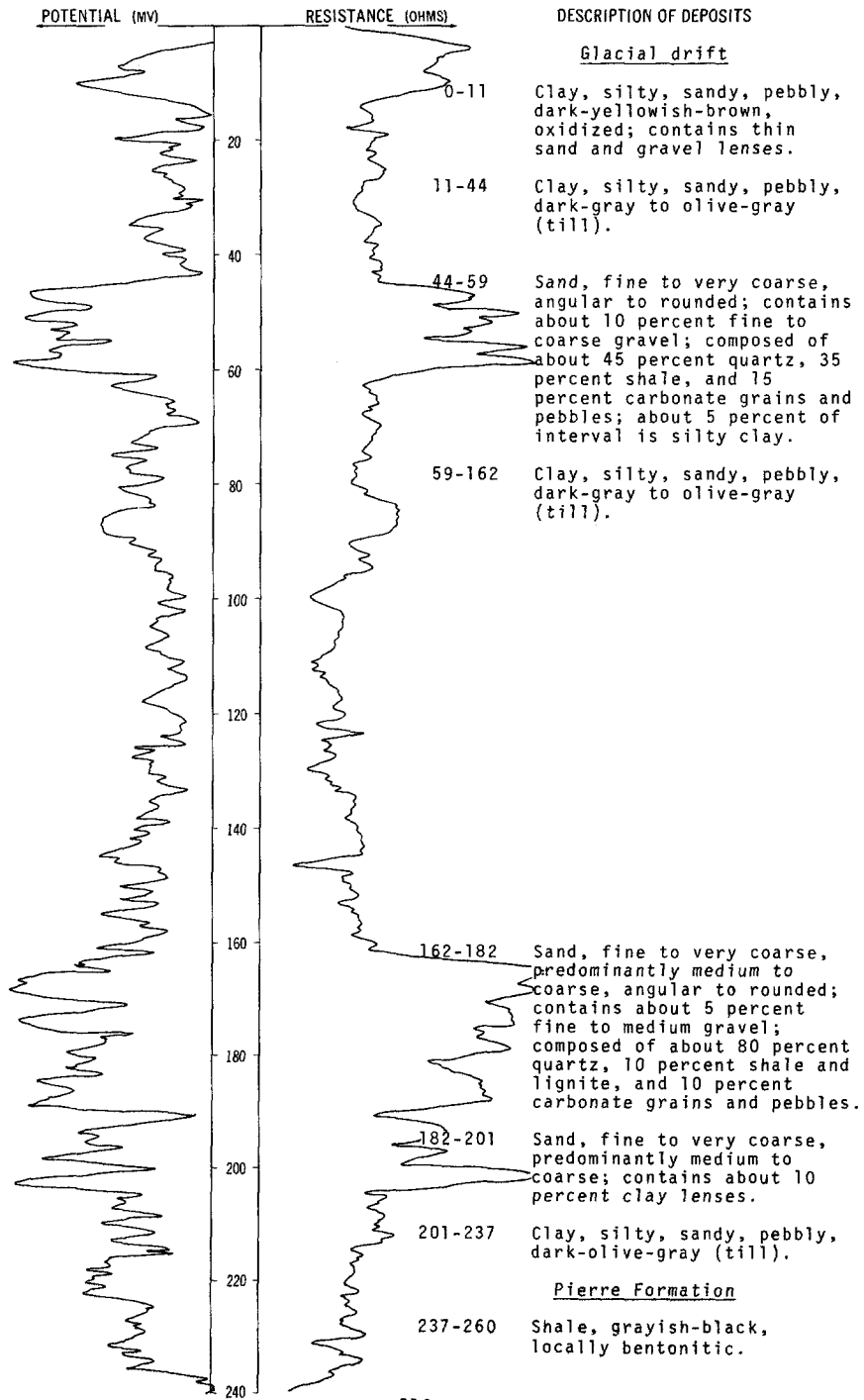
ALTITUDE: 1450
(FT, MSL)

DEPTH: 100
(FT)



LOCATION: 136-062-03CCC
 ALTITUDE: 1450
 (FT, MSL)

DATE DRILLED: 10/24/74
 DEPTH: 260
 (FT)



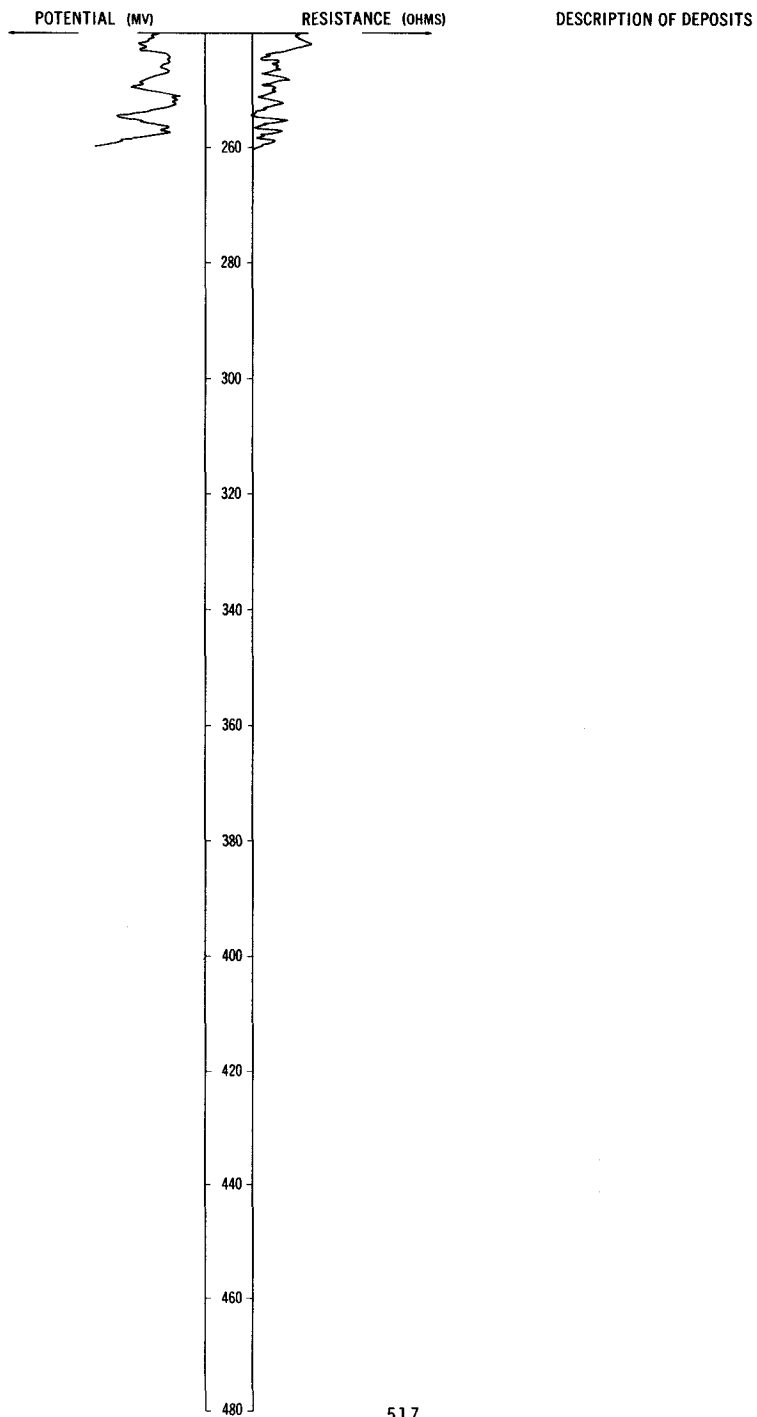
NDSWC 9184, Continued

LOCATION: 136-062-03CCC

DATE DRILLED: 10/24/74

ALTITUDE: 1450
(FT, MSL)

DEPTH: 260
(FT)

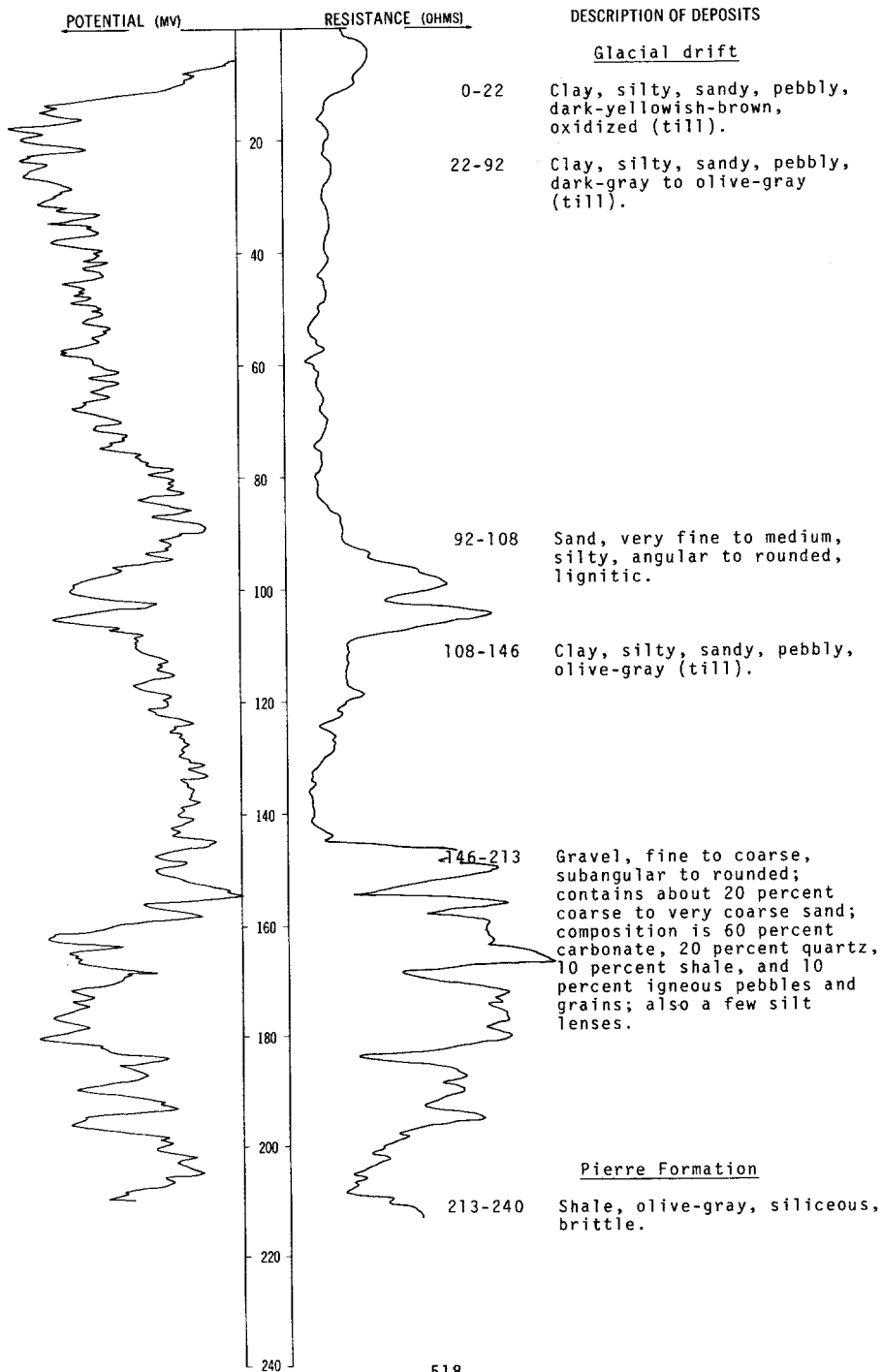


LOCATION: 136-062-06DDD

DATE DRILLED: 10/24/74

ALTITUDE: 1453
(FT, MSL)

DEPTH: 240
(FT)



136-062-30CCD
USBR L-39

Altitude:	1337 feet	Date drilled:	8/09/67
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Loam, sandy-----	2	2
	Sand, loamy-----	7	9
	Loam, sandy, clayey (till)-----	21	30

136-062-30DDD
USBR L-38

Altitude:	1336 feet	Date drilled:	8/09/67
Glacial drift:			
	Sand, loamy-----	5	5
	Sand, coarse, loamy-----	10	15
	Sand, coarse; 25 percent shale-----	5	20

136-062-32DAA
USBR L-37

Altitude:	1334 feet	Date drilled:	8/09/67
Glacial drift:			
	Loam, silty-----	3	3
	Loam, silty, clayey-----	6	9
	Loam, clayey (till)-----	11	20

136-062-34ACC
USBR L-36

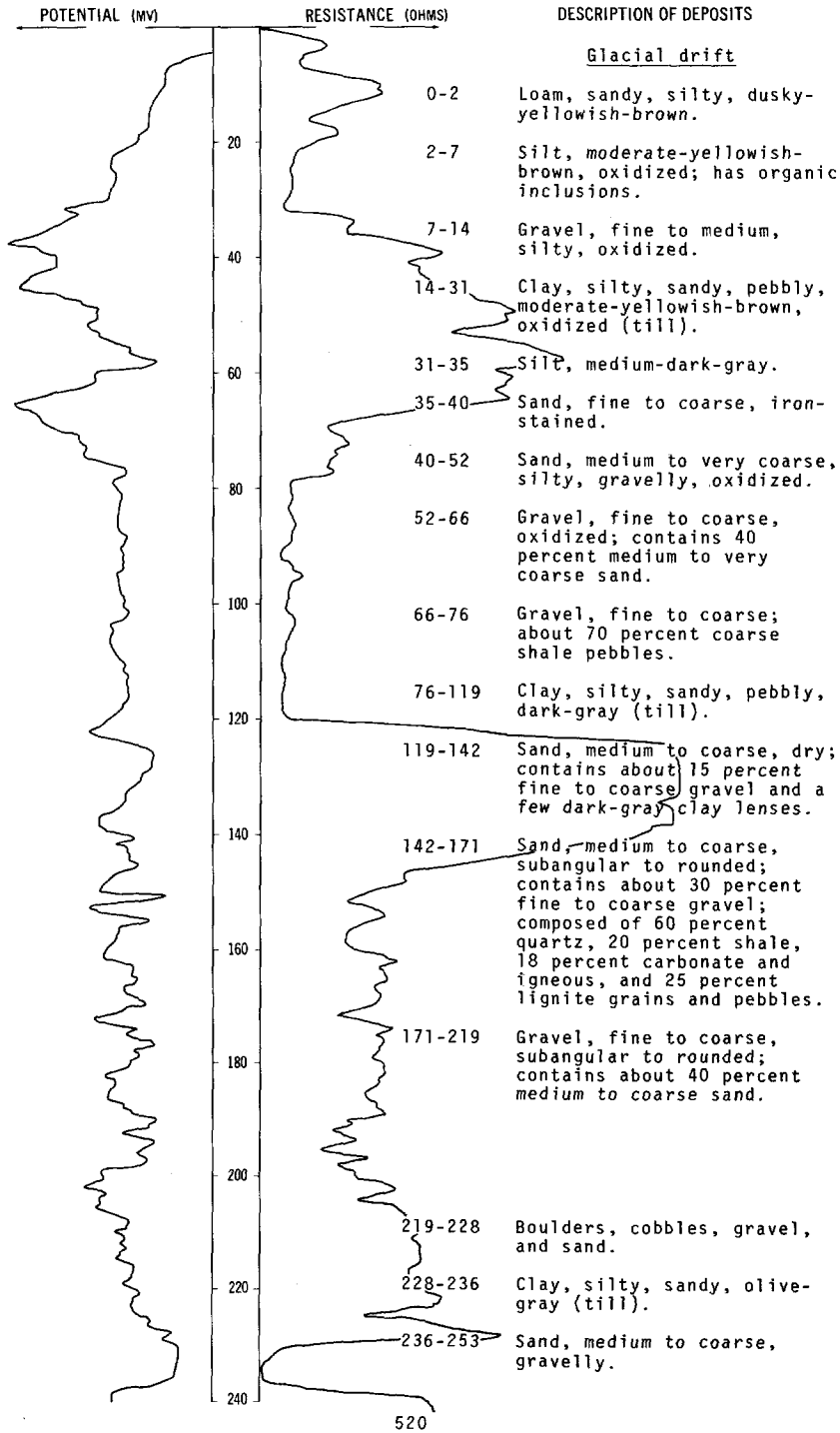
Altitude:	1345 feet	Date drilled:	8/09/67
Glacial drift:			
	Loam, silty-----	15	15
	Loam, silty, clayey (reworked till)-----	15	30

LOCATION: 136-063-01CCC

DATE DRILLED: 10/23/74

ALTITUDE: 1473
(FT, MSL)

DEPTH: 260
(FT)



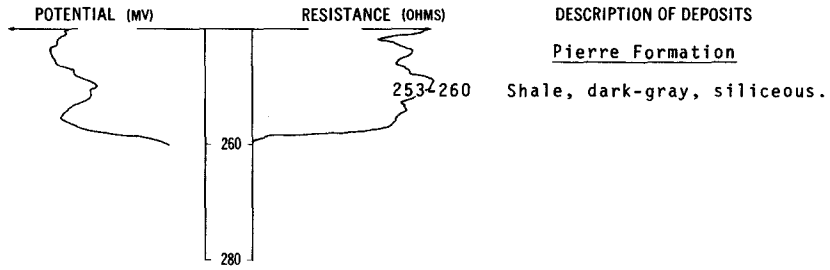
NDSWC 9182, Continued

LOCATION: 136-063-01CCC

DATE DRILLED: 10/23/74

ALTITUDE: 1473
(FT, MSL)

DEPTH: 260
(FT)



136-063-02ACC
USBR L-45

Altitude: 1345 feet

Date drilled: 8/11/67

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Loam, silty-----	5	5
	Sand, loamy-----	5	10
	Sand, coarse, loamy-----	20	30

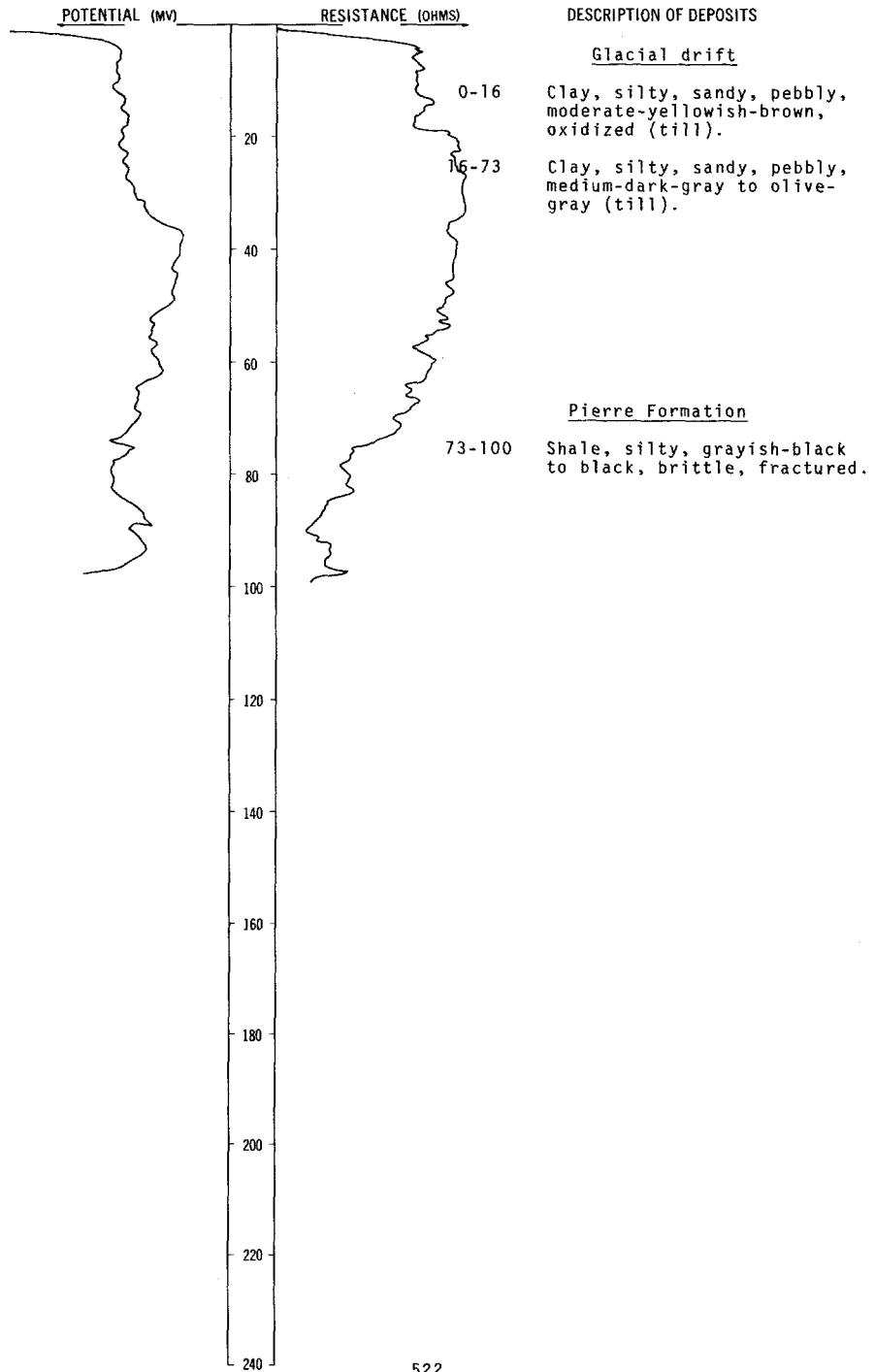
NOSWC 9502

LOCATION: 136-063-06CCC

ALTITUDE: 1494
(FT, MSL)

DATE DRILLED: 11/11/75

DEPTH: 100
(FT)

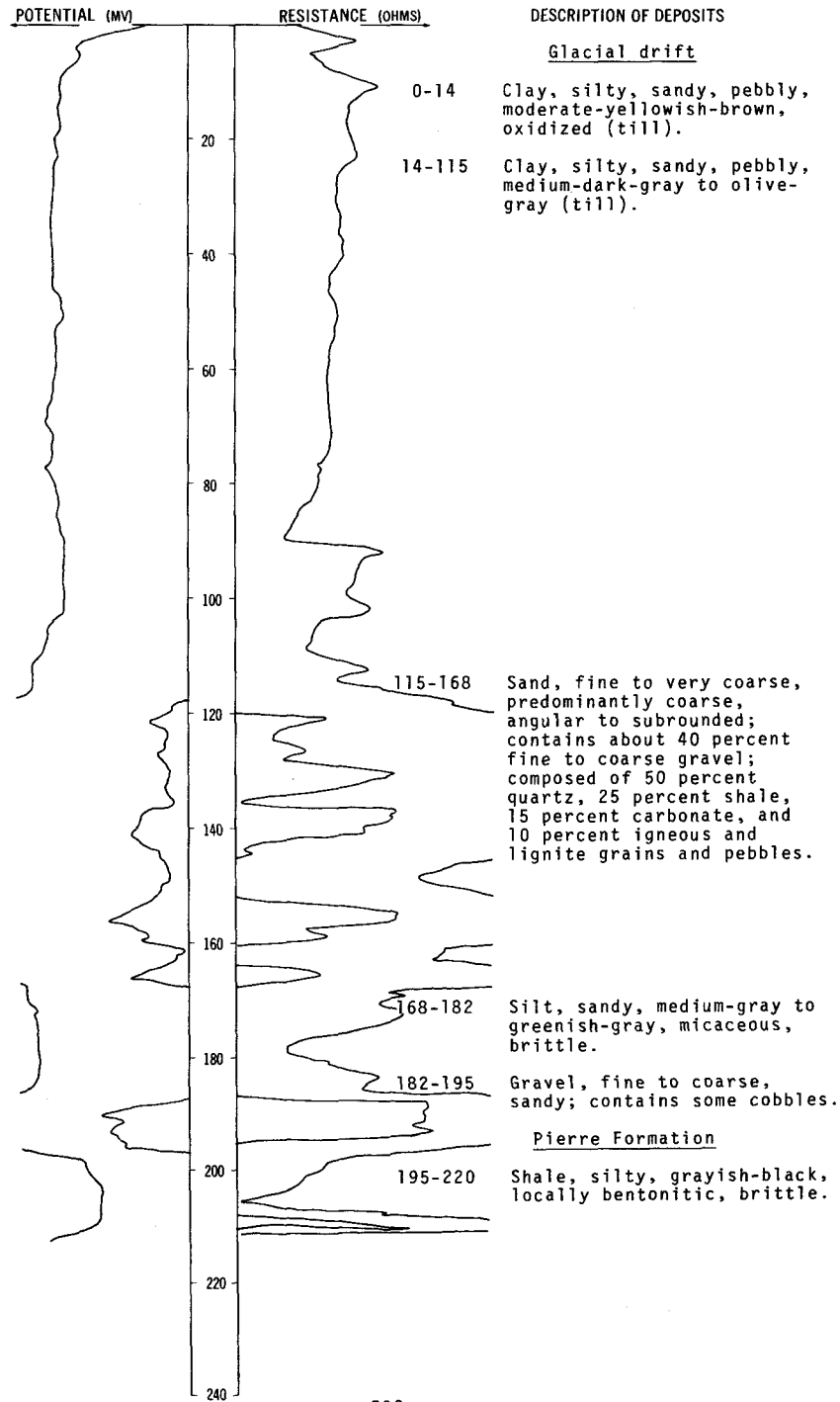


LOCATION: 136-063-08AAB

DATE DRILLED: 11/05/75

ALTITUDE: 1478
(FT, MSL)

DEPTH: 220
(FT)



136-063-08BBB
NDSWC 9496

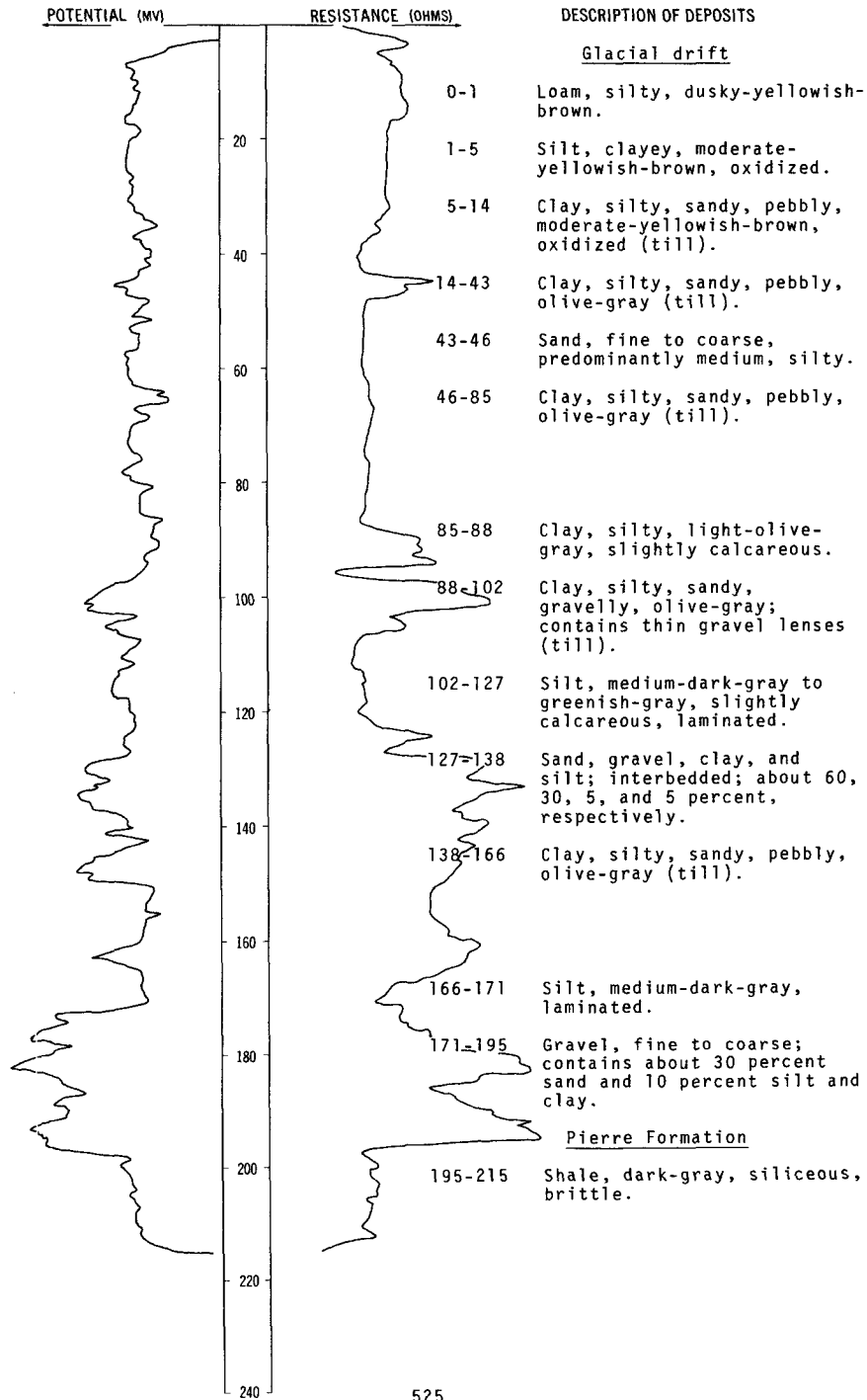
Altitude: 1485 feet

Date drilled: 11/06/75

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	17	17
	Clay, silty, sandy, pebbly, medium-dark-gray to olive-gray (till)-----	3	20
	Gravel, fine to coarse, angular to subrounded-----	16	36
	Clay, silty, sandy, pebbly, dark-gray to olive-gray (till)-----	84	120

LOCATION: 136-063-10888
 ALTITUDE: 1470
 (FT, MSL)

DATE DRILLED: 10/23/74
 DEPTH: 215
 (FT)

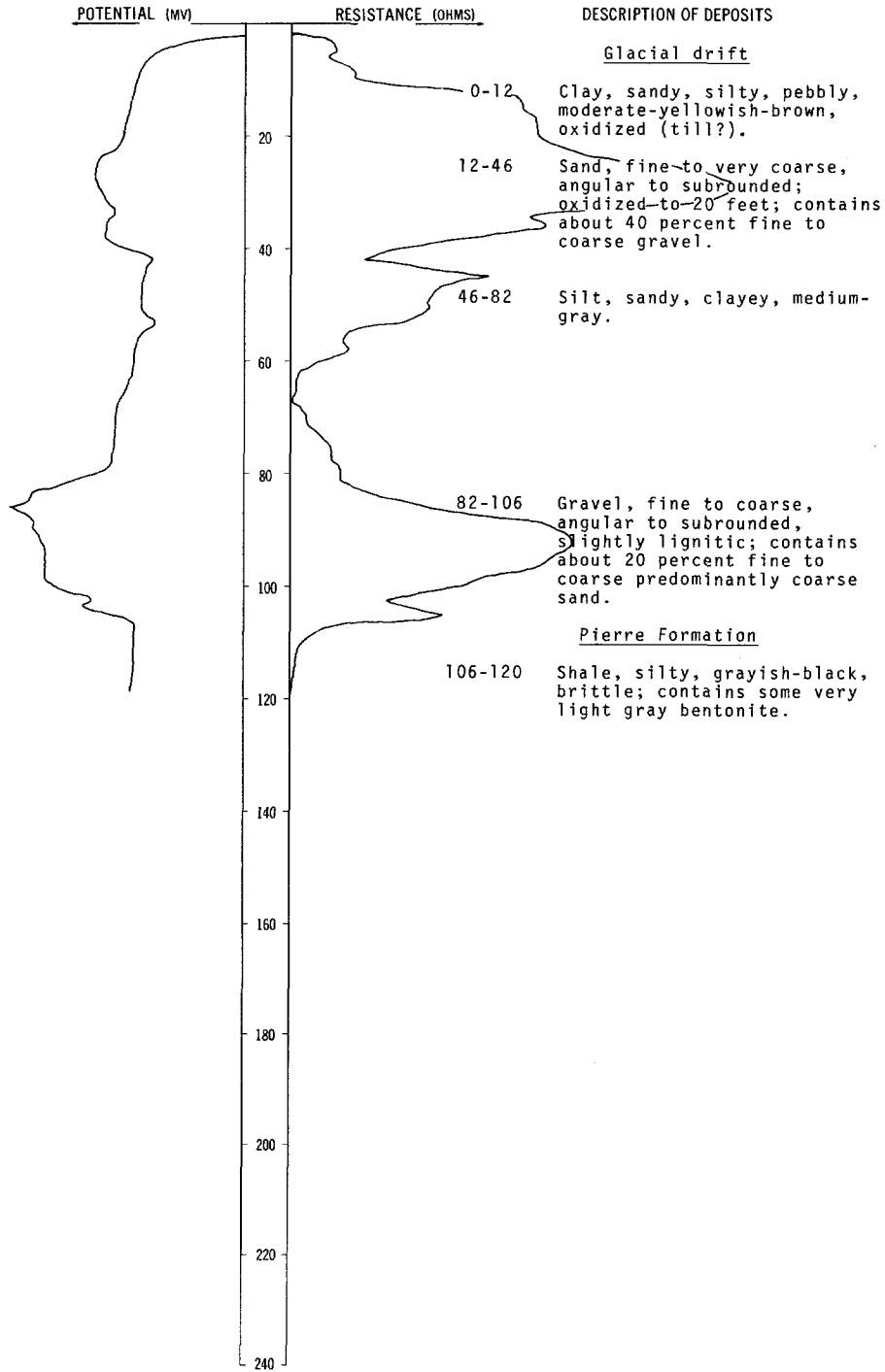


LOCATION: 136-063-11BBB

DATE DRILLED: 11/05/75

ALTITUDE: 1371
(FT, MSL)

DEPTH: 120
(FT)



136-063-11DDD
USBR L-42

Date drilled: 8/10/67

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Loam, silty-----	4	4
	Sand, coarse, loamy-----	6	10
	Sand, coarse-----	15	25

136-063-13CBC
USBR L-41

Altitude: 1343 feet

Date drilled: 8/10/67

Glacial drift:			
	Loam, silty-----	3	3
	Clay, silty-----	8	11
	Loam, clayey, silty-----	4	15
	Loam (till)-----	10	25

136-063-13CCC
USBR L-40

Altitude: 1342 feet

Date drilled: 8/09/67

Glacial drift:			
	Loam, silty-----	5	5
	Clay, silty, loamy-----	15	20
	Loam, sandy-----	3	23
	Loam, silty-----	1	24
	Till-----	1	25

136-063-14BBB
USBR L-43

Altitude: 1335 feet

Date drilled: 8/09/67

Glacial drift:			
	Loam, silty-----	7	7
	Loam, silty, clayey-----	8	15
	Loam-----	10	25

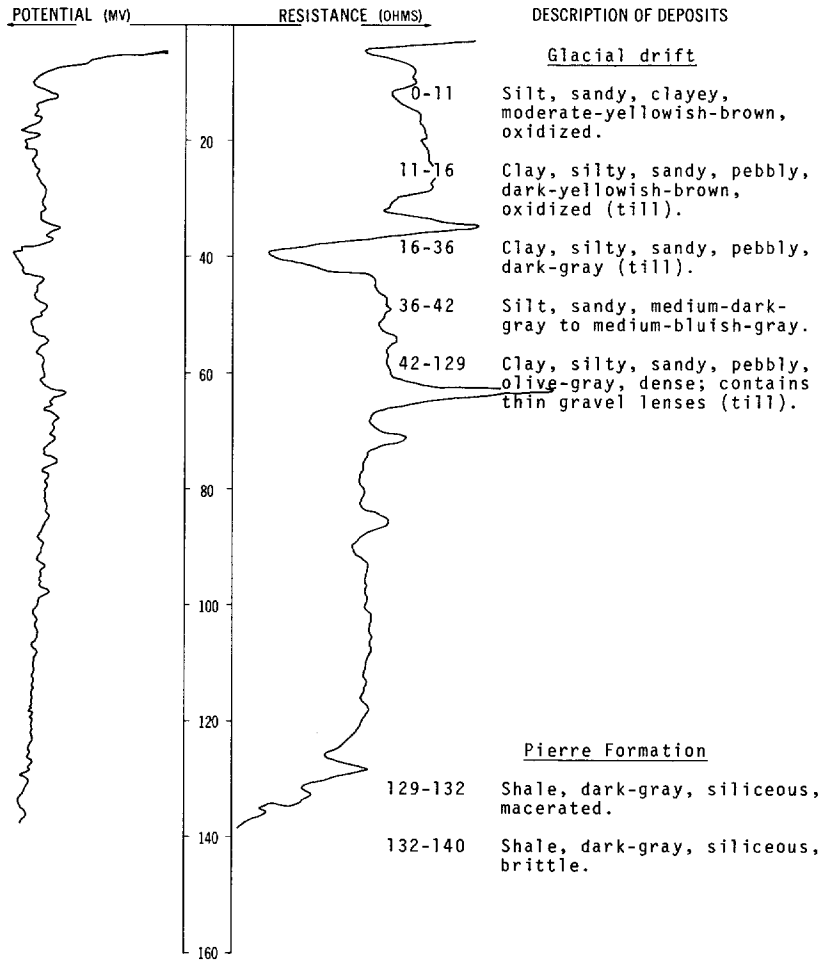
136-063-31BAA
(Log from Mann Drilling Co.)

Date drilled: 6/09/72

Glacial drift:			
	Till-----	178	178
Pierre Formation:			
	Shale-----	2	180

LOCATION: 136-063-34BBB
 ALTITUDE: 1495
 (FT, MSL)

DATE DRILLED: 10/22/74
 DEPTH: 140
 (FT)



136-064-07CCC
 NDSWC 9505

Altitude: 1522 feet

Date drilled: 11/12/75

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	21	21
	Clay, silty, sandy, pebbly, medium-dark-gray to olive-gray (till)-----	48	69
Pierre Formation:	Shale, silty, black to grayish-black, brittle, fractured-----	11	80

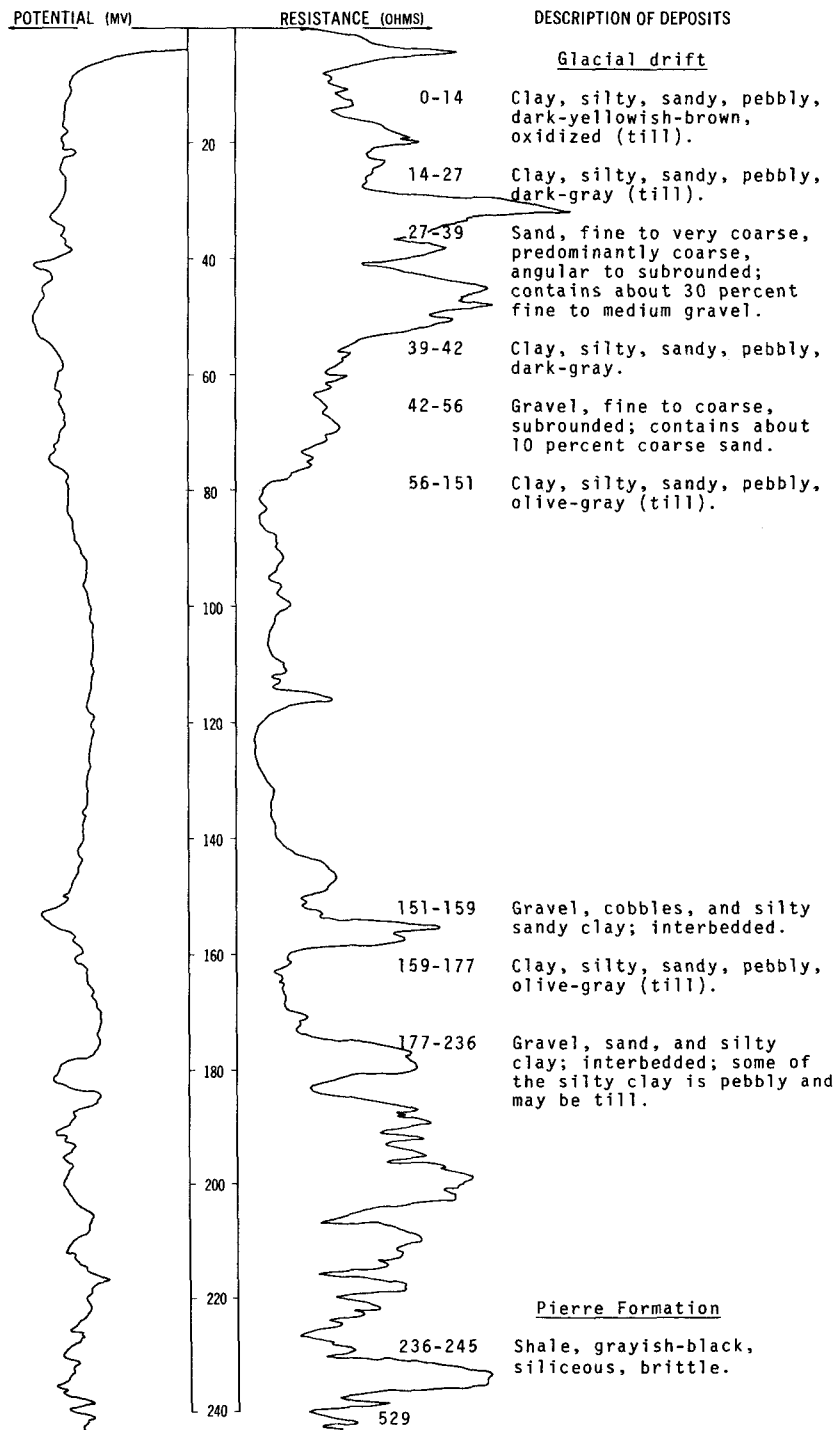
NDSWC 9178

LOCATION: 136-064-09CCC1

DATE DRILLED: 10/22/74

ALTITUDE: 1550
(FT, MSL)

DEPTH: 245
(FT)



136-064-09CCC2
NDSWC 9178A

Altitude: 1550 feet

Date drilled: 10/22/74

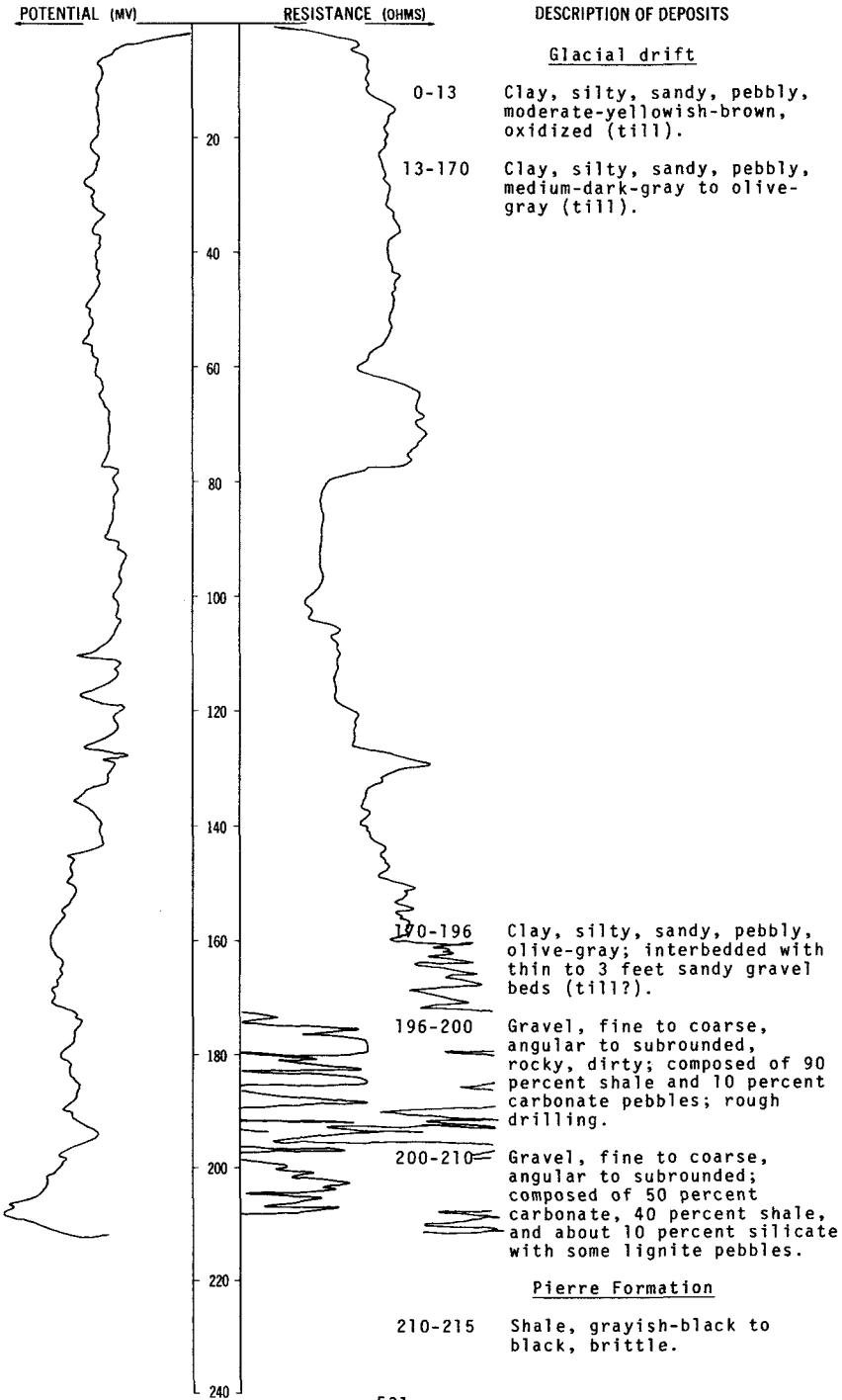
<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, silty, sandy, pebbly, dark-yellowish-brown, oxidized (till)-----	15	15
	Clay, silty, sandy, pebbly, dark-gray; contains thin sandy gravel lenses-----	45	60

LOCATION: 136-064-09DDD

DATE DRILLED: 11/11/75

ALTITUDE: 1518
(FT, MSL)

DEPTH: 215
(FT)

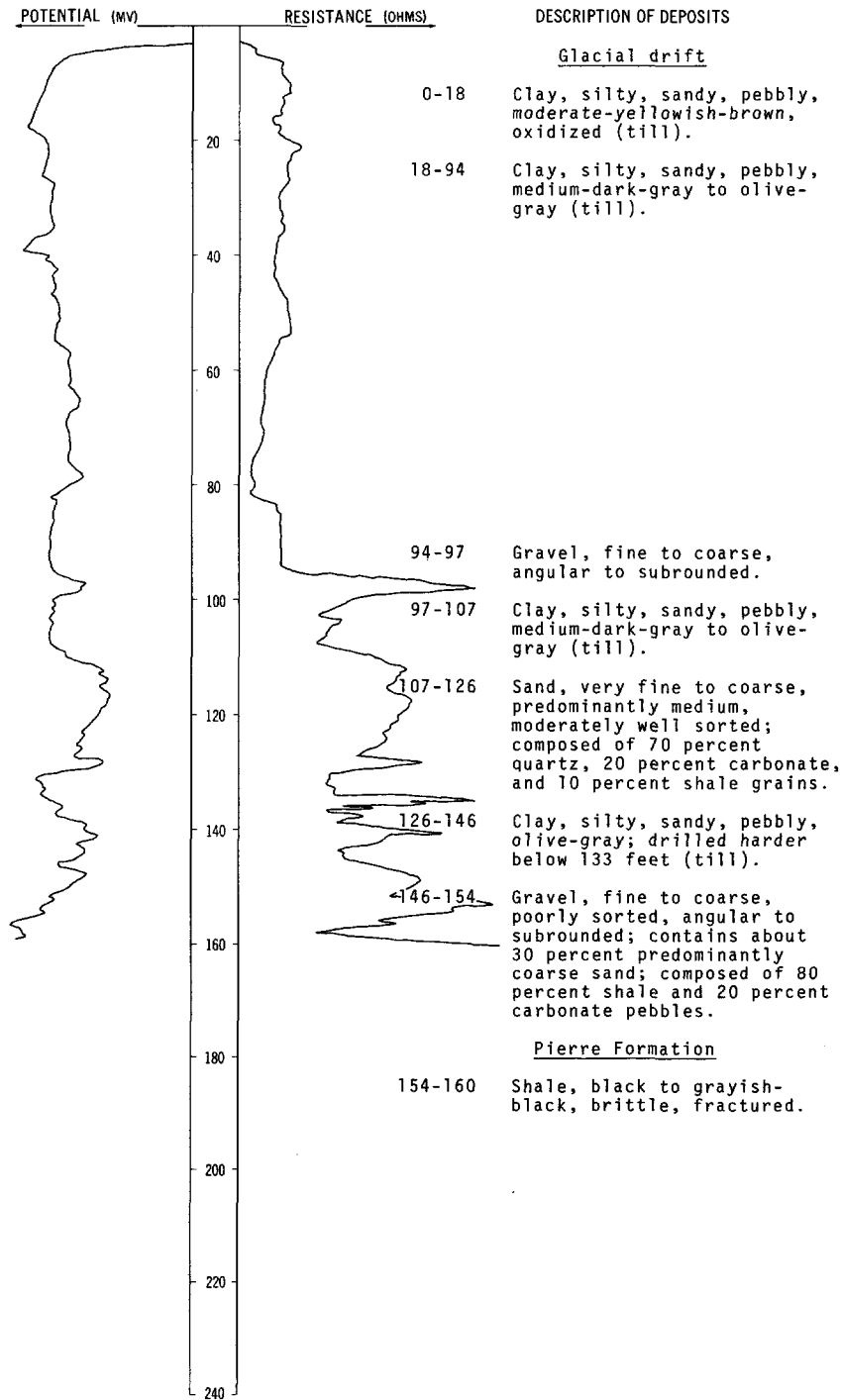


LOCATION: 136-064-18AAA

DATE DRILLED: 11/11/75

ALTITUDE: 1517
(FT. MSL)

DEPTH: 160
(FT)

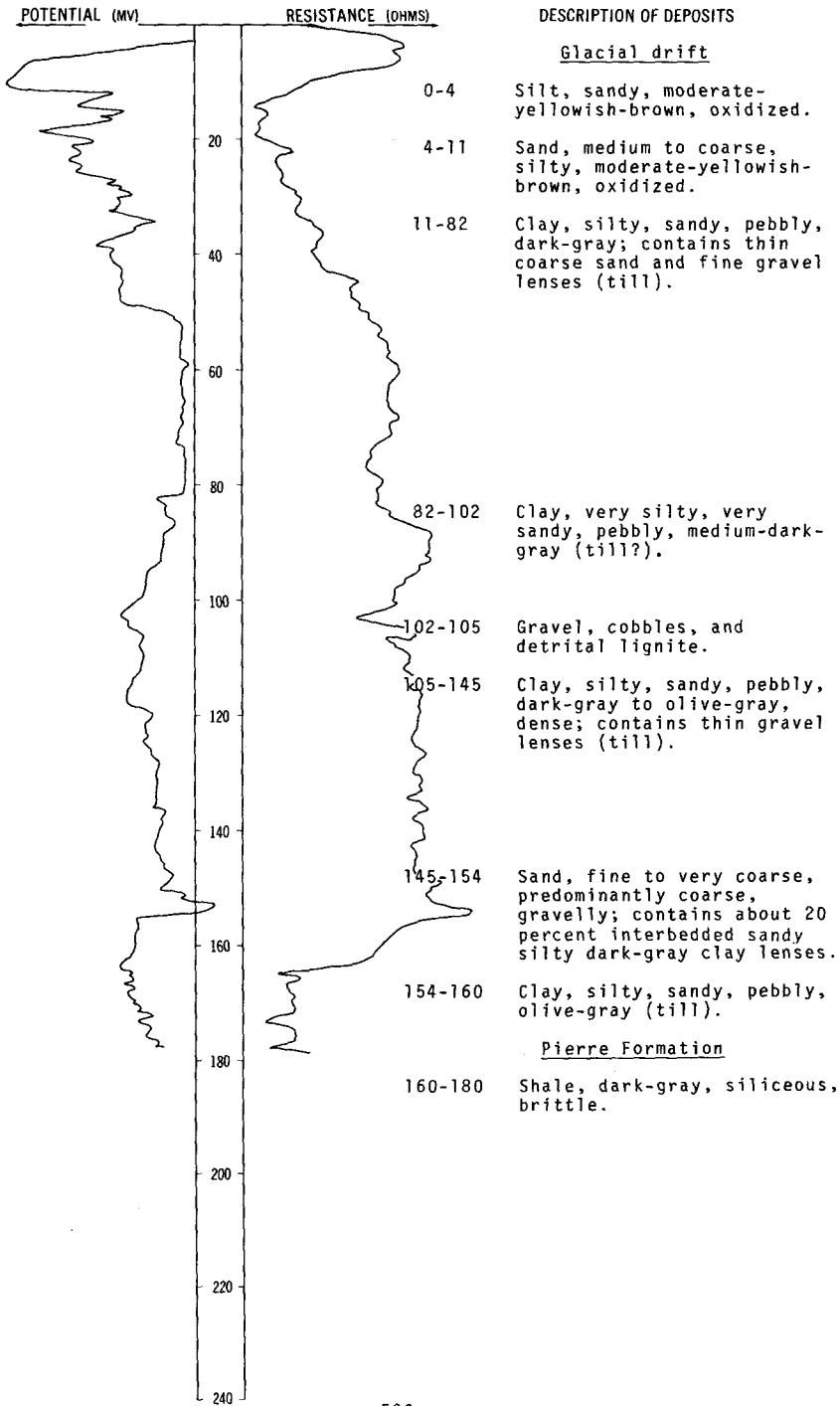


LOCATION: 136-064-20AAA

DATE DRILLED: 10/22/74

ALTITUDE: 1511
(FT, MSL)

DEPTH: 180
(FT)



136-064-25CAA
(Log from Farmer's Supply Co.)

Date drilled: 5/12/72

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay-----	52	52
	Sand, water-bearing-----	6	58
	Clay, gray; has boulders (till)-----	94	152
	Sand, gravelly-----	18	170

136-064-25CAC
(Log from Mann Drilling Co.)

Date drilled: 3/13/72

Glacial drift:			
	Clay, silty-----	60	60
	Till-----	118	178
	Sand, medium-----	24	202
Pierre Formation:			
	Shale-----	8	210

136-064-25CAD2
(Log from Farmer's Supply Co.)

Date drilled: 5/23/72

Glacial drift:			
	Clay, yellow-----	4	4
	Till, gray-----	48	52
	Sand, water-bearing(?)-----	8	60
	Till, gray; with boulders-----	94	154
	Clay, sandy, gravelly-----	10	164
	Boulder-----	--	164

136-064-25CDA
(Log from Mann Drilling Co.)

Date drilled: 3/13/72

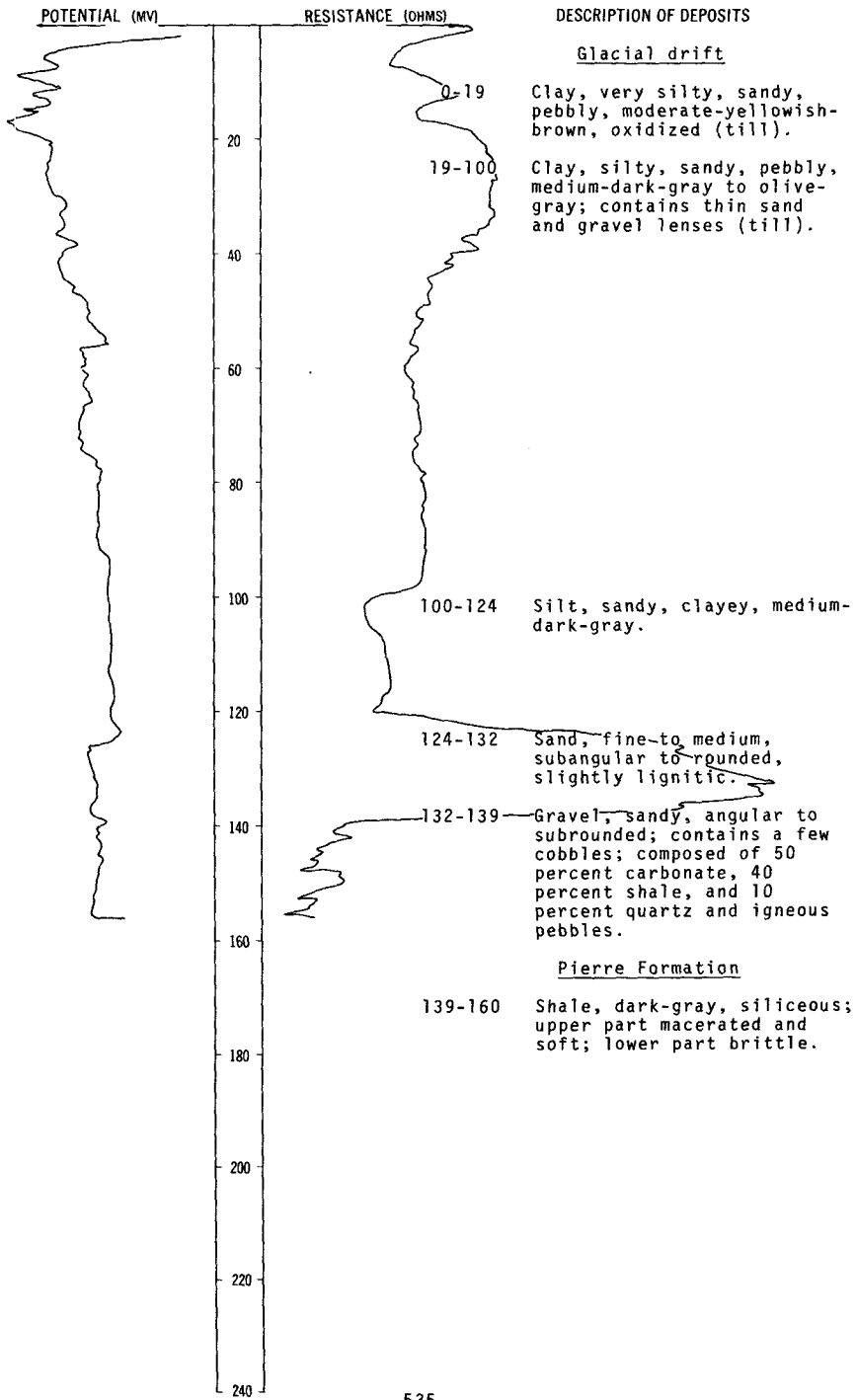
Glacial drift:			
	Clay, silty, buff-----	45	45
	Sand-----	2	47
	Clay, silty (till)-----	105	152
	Gravel and sand-----	25	177
	Clay-----	4	181
	Sand, lignite chips-----	13	194
	Clay-----	6	200

LOCATION: 136-064-26AAA

DATE DRILLED: 10/22/74

ALTITUDE: 1523
(FT, MSL)

DEPTH: 160
(FT)



136-064-28BBB
NDSWC 9814

Altitude: 1515 feet

Date drilled: 10/12/76

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, silty, sandy, black, organic-----	2	2
	Clay, silty, sandy, moderate- yellowish-brown, oxidized-----	2	4
	Clay, silty, sandy, pebbly, moderate- yellowish-brown, oxidized (till)-----	23	27
	Clay, silty, sandy, pebbly, olive- gray-----	8	35
	Gravel, sandy-----	4	39
	Sand, predominantly medium, gravelly-----	3	42
	Clay, silty, sandy, pebbly, olive- gray to dark-olive-gray (till)-----	72	114
	Gravel, sandy; fine sand to medium gravel; composed predominantly of shale pebbles-----	6	120
	Sand, predominantly very coarse; composed predominantly of lime- stone pebbles and grains-----	4	124
	Clay, silty, sandy, pebbly, dark- olive-gray (till)-----	10	134
	Sand, very fine to very coarse; contains about 40 percent fine to coarse gravel-----	12	146
	Gravel, sandy; contains thin clay lenses-----	5	151
Pierre Formation:			
	Shale, grayish-black, brittle-----	9	160

136-064-28CDC2
(Log from Scherbenske Excavating & Trucking)

Date drilled: 10/14/74

	Dirt, black-----	1	1
	Sand-----	17	18
	Clay-----	106	124
	Sand-----	6	130

136-064-29AAA
NDSWC 9813

Altitude: 1505 feet

Date drilled: 10/12/76

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
	Clay, silty, moderate-yellowish-brown, oxidized-----	6	6
	Clay, silty, sandy, pebbly, moderate-yellowish-brown (till)-----	6	12
	Clay, silty, sandy, pebbly, olive-gray to dark-olive-gray (till)-----	89	101
	Cobbles, some sand, and clay-----	2	103
	Clay, silty, sandy, pebbly, olive-gray (till)-----	5	108
	Cobbles-----	1	109
	Clay, silty, brownish-gray-----	3	112
	Gravel, sandy; predominantly shale pebbles-----	6	118
	Clay, silty, brownish-gray-----	10	128
	Sand, predominantly coarse, gravelly; contains clay lenses-----	22	150
	Boulder-----	--	150

136-064-29AAD1
(Log from Farmer's Supply Co.)

Date drilled: 10/21/71

	Topsoil-----	2	2
	Clay, yellow-----	14	16
	Till, gray-----	69	85
	Till, gray, rocky-----	25	110
	Till, gray, shaly-----	25	135
	Gravel, medium to coarse-----	20	155

136-064-29AAD2
NDSWC 9810

Altitude: 1510 feet

Date drilled: 10/07/76

Glacial drift:			
	Silt, clayey, sandy, light-olive-brown-----	7	7
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	9	16
	Clay, silty, sandy, pebbly, olive-gray (till)-----	13	29
	Gravel, sandy-----	1	30
	Clay, silty, sandy, pebbly, olive-gray (till)-----	99	129
	Sand, fine to very coarse, predominantly coarse; contains about 40 percent fine to coarse gravel, and a few clay lenses-----	11	140
	Clay, silty; contains gravel lenses (poor recovery)-----	9	149
Pierre Formation:			
	Shale, dark-brownish-gray-----	11	160

136-064-29ADA1
NDSWC 9811

Altitude: 1510 feet

Date drilled: 10/17/76

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, silty, sandy, moderate-yellowish-brown, oxidized-----	6	6
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	7	13
	Clay, silty, sandy, pebbly, dark-yellowish-brown, oxidized-----	8	21
	Clay, silty, sandy, pebbly, olive-gray (till)-----	80	101
	Gravel, fine to coarse; with fine to very coarse sand-----	4	105
	Gravel, sandy; with clay lenses-----	9	114
	Clay, silty, sandy, brownish-gray-----	15	129
	Gravel, fine to coarse, poorly sorted; contains about 50 percent predominantly coarse sand; about 25 percent shale pebbles-----	22	151
Pierre Formation:			
	Shale, dark-brownish-gray-----	9	160

136-064-29ADA2
NDSWC 9812

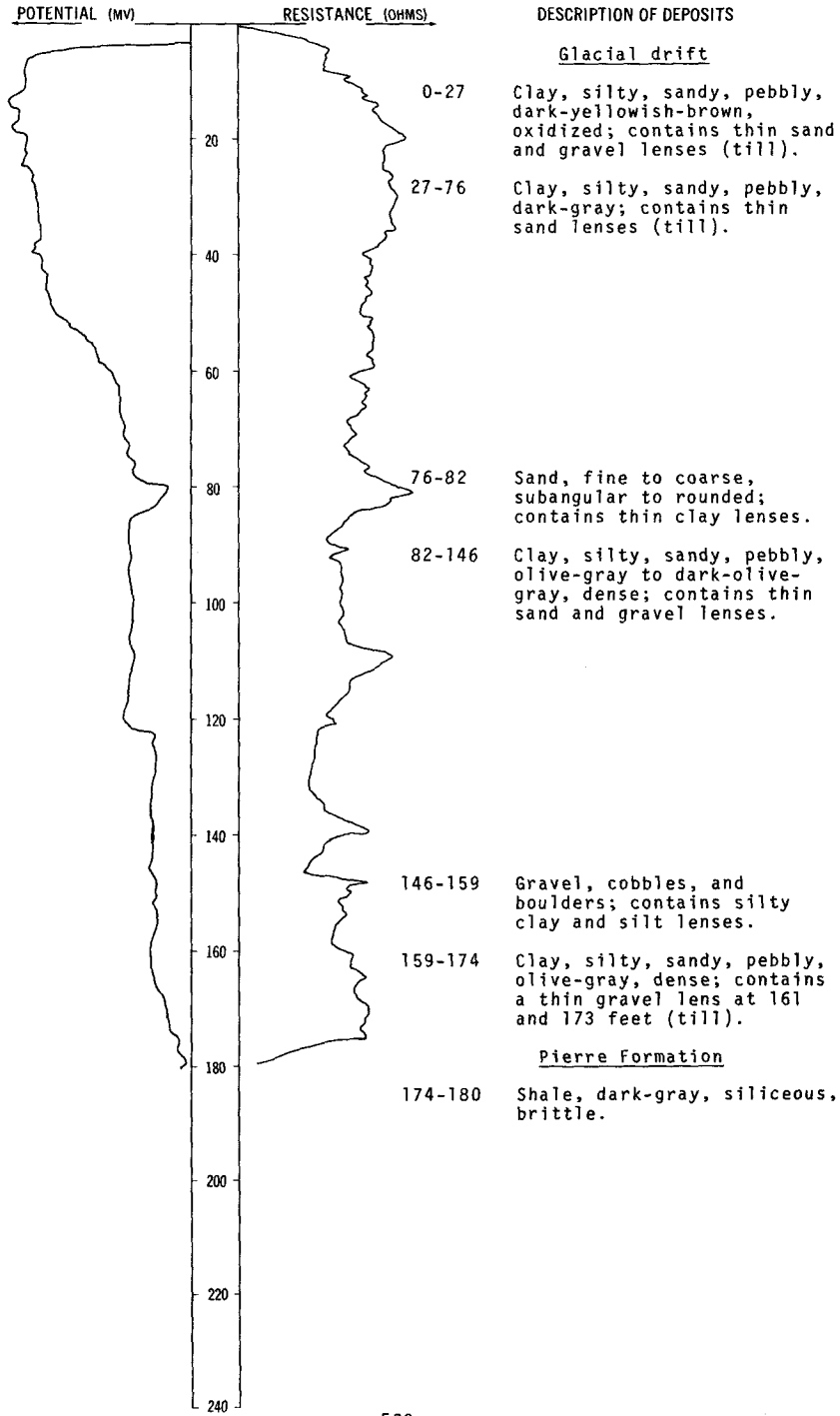
Altitude: 1510 feet

Date drilled: 10/11/76

<u>Geologic source</u>	<u>Material</u>	<u>Thickness (feet)</u>	<u>Depth (feet)</u>
Glacial drift:			
	Clay, silty, sandy, pebbly, moderate-yellowish-brown, oxidized (till)-----	9	9
	Clay, silty, sandy, pebbly, olive-gray; contains two layers of cobbles between 68 and 69 feet and 89 and 90 feet-----	85	94
	Sand, gravelly-----	4	98
	Sand, coarse to very coarse; contains some fine to coarse gravel-----	16	114
	Clay, locally silty, brownish-gray-----	13	127
	Sand, fine to coarse; predominantly very coarse sand; contains nearly 50 percent fine to coarse gravel-----	23	150
Pierre Formation:			
	Shale, grayish-black, brittle-----	10	160

LOCATION: 136-065-24CCC
 ALTITUDE: 1590
 (FT, MSL)

DATE DRILLED: 10/21/74
 DEPTH: 180
 (FT)



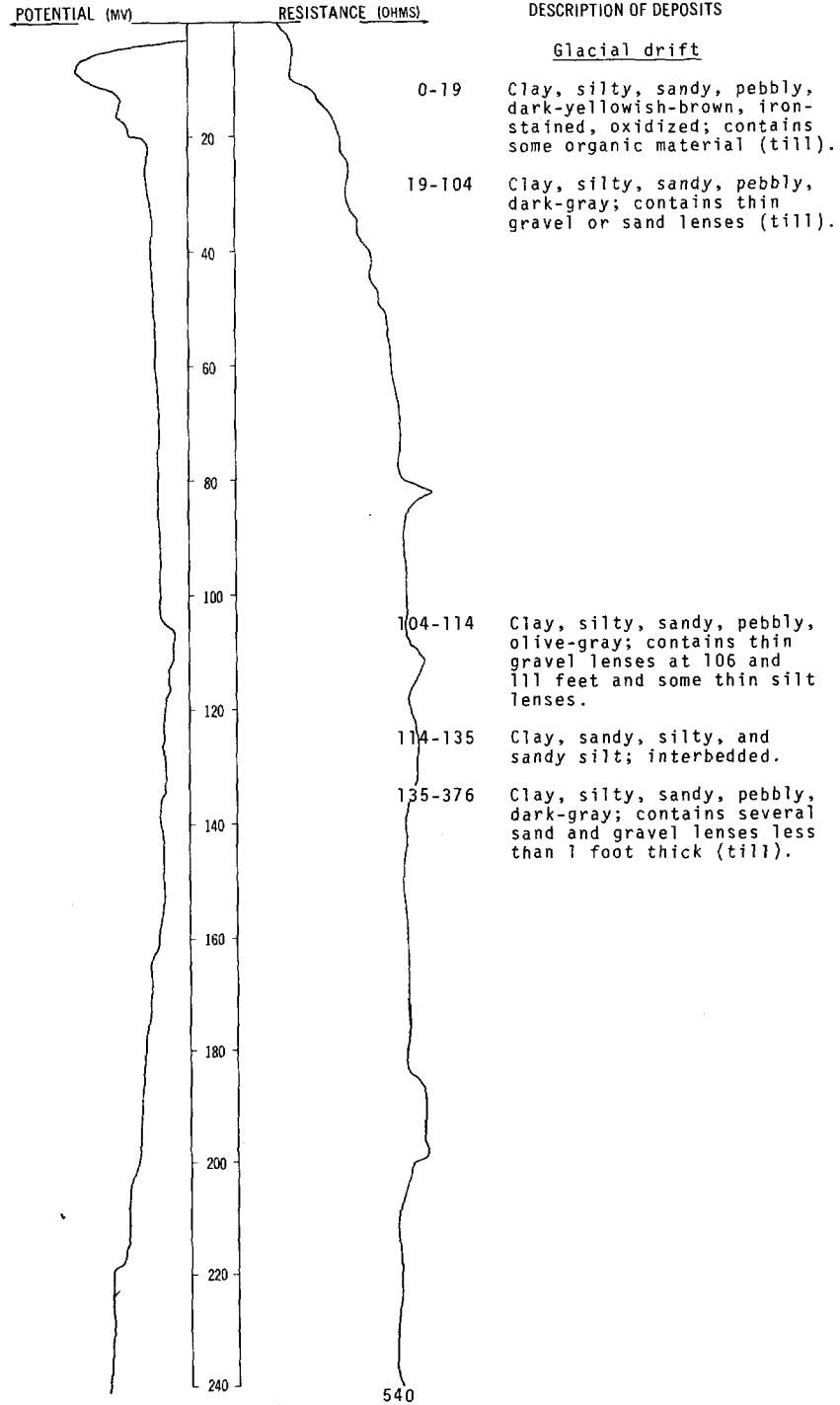
NDSWC 9175

LOCATION: 136-066-04CCC

ALTITUDE: 1865
(FT, MSL)

DATE DRILLED: 10/21/74

DEPTH: 400
(FT)



NDSWC 9175, Continued

LOCATION: 136-066-04CCC

DATE DRILLED: 10/21/74

ALTITUDE: 1865
(FT, MSL)

DEPTH: 400
(FT)

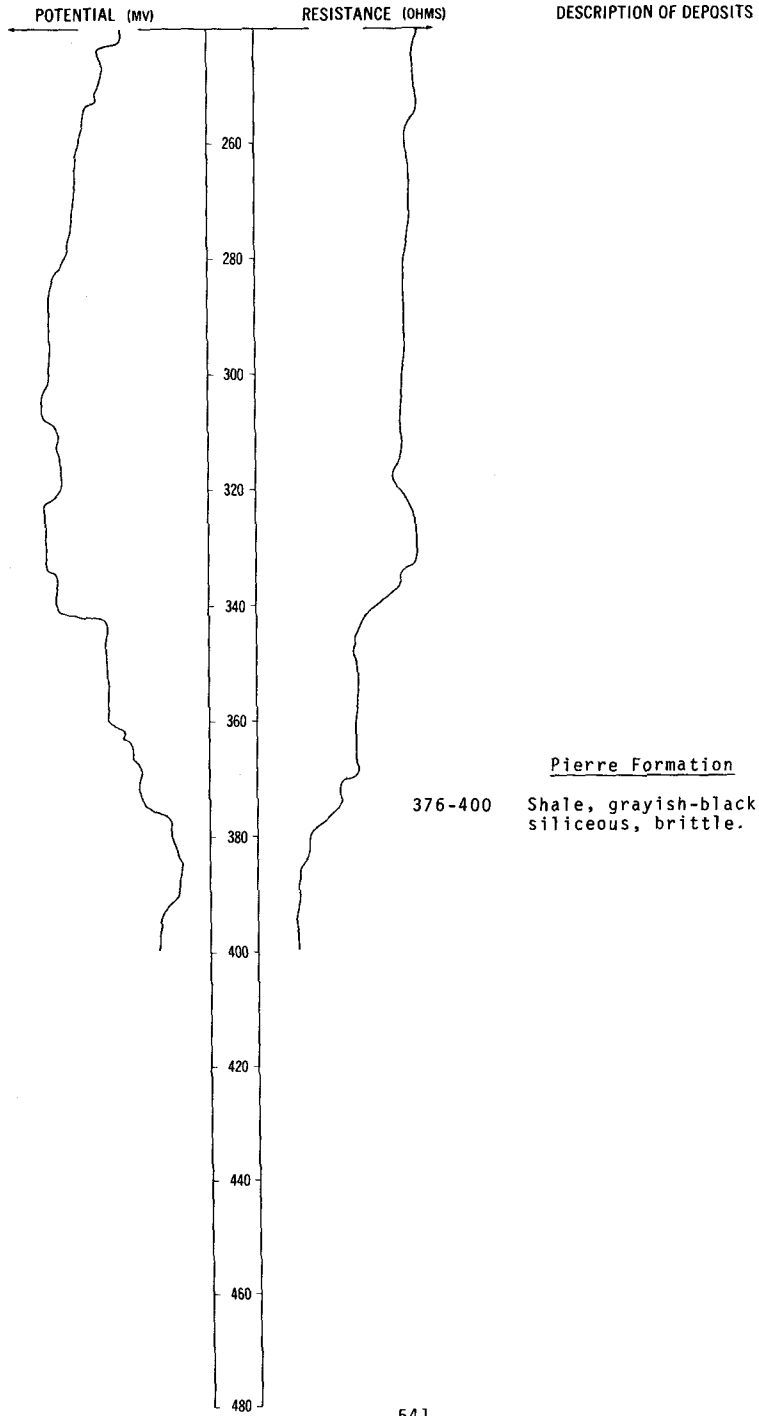


TABLE 4.--Partial logs of wells and test holes

Local well number	Date completed	Geologic formation	Top (feet)	Bottom (feet)	Total depth (feet)
129-060-28CCB (Log from Independent Drilling Co.)	7/23/70	Greenhorn Dakota Lakota	570 990 1,160	-- -- --	-- -- -- 1,203
129-062-15CCC (Log from Independent Drilling Co.)	6/29/74	Greenhorn Dakota	610 1,118	670 1,244	-- --
129-063-25BBB (Log from Independent Drilling Co.)	7/24/73	Greenhorn Dakota	669 1,034	-- 1,118	-- --
129-063-34BBB (Log from Independent Drilling Co.)	8/13/74	Greenhorn Dakota	728 1,138	-- 1,180	-- --
129-064-20BBB (Log from Huron Drilling, Inc.)	1/07/74	Greenhorn Dakota	750 1,120	-- 1,215	-- --
130-062-15ADB (Log from Independent Drilling Co.)	11/04/75	Greenhorn Dakota Lakota	647 980 1,263	-- 1,083 1,326	-- -- --

Local well number	Date completed	Geologic formation	Top (feet)	Bottom (feet)	Total depth (feet)
130-062-15CBB (Log from Independent Drilling Co.)	4/11/69	Greenhorn Dakota Lakota	622 942 1,300	-- 1,042 1,375	-- -- --
130-063-20DDC (Log from Independent Drilling Co.)	7/18/73	Greenhorn Dakota	560 1,140	-- 1,200	-- --
130-065-11CAB (Log from Independent Drilling Co.)	8/22/70	Greenhorn Dakota Lakota	998 1,190 1,610	-- 1,310 1,670	-- -- --
130-065-16DA (Log from Independent Drilling Co.)	10/05/74	Greenhorn Dakota	780 1,340	-- 1,491	-- --
131-060-27ABA (Log from Independent Drilling Co.)	10/07/69	Greenhorn Dakota Lakota	602 1,015 1,383	-- 1,162 1,425	-- -- --
131-061-23DDC (Log from Independent Drilling Co.)	12/08/72	Glacial drift Greenhorn Dakota Lakota	-- 645 960 1,284	120 -- 1,040 1,345	-- -- -- --
131-061-29CCB (Log from Independent Drilling Co.)	6/10/75	Greenhorn Dakota	540 970	-- 1,138	-- --

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Local well number	Date completed	Geologic formation	Top (feet)	Bottom (feet)	Total depth (feet)
131-062-18ABC (Log from Independent Drilling Co.)	8/20/75	Greenhorn Dakota Lakota	725 1,140 1,372	-- 1,150 1,429	-- -- --
131-063-11CCB (Log from Independent Drilling Co.)	2/27/75	Greenhorn Dakota Lakota	720 1,110 1,475	-- 1,190 1,515	-- -- --
131-064-22AAA (Log from Independent Drilling Co.)	10/23/73	Greenhorn Dakota	848 1,209	-- 1,335	-- --
132-059-14ACA (Log from Independent Drilling Co.)	8/09/74	Greenhorn Dakota Lakota	575 890 1,230	-- 1,020 1,265	-- -- --
132-063-12AAA (Log from Independent Drilling Co.)	9/07/73	Greenhorn Dakota	757 1,090	-- 1,195	-- --
132-063-29BBB (Log from Independent Drilling Co.)	3/11/72	Pierre (includes Niobrara and Carlile) Greenhorn Newcastle Lakota	80 860 1,020 1,150	860 900 1,040 1,260	-- -- -- --

Local well number	Date completed	Geologic formation	Top (feet)	Bottom (feet)	Total depth (feet)
133-059-02BCD (Log from Independent Drilling Co.)	3/12/75	Greenhorn	540	587	--
		Dakota	960	1,060	--
		Lakota	1,147	1,223	--
133-059-22ADD (Log from Independent Drilling Co.)	9/15/75	Pierre	170	--	--
		Greenhorn	550	--	--
		Dakota	900	--	--
		Lakota	1,140	--	--
					1,182
133-059-25DAD (Log from Independent Drilling Co.)	9/06/75	Greenhorn	578	--	--
		Dakota	910	--	--
		Lakota	1,128	--	--
					1,191
133-061-18ACB (Log from Independent Drilling Co.)	12/16/69	Greenhorn	764	--	--
		Dakota	1,222	1,300	--
		Lakota	1,375	1,430	--
133-065-11DAC (Log from Independent Drilling Co.)	8/24/73	Greenhorn	1,150	--	--
		Dakota	1,570	1,640	--
		Lakota	1,752	1,800	--
		Fall River	1,966	2,071	--

Local well number	Date completed	Geologic formation	Top (feet)	Bottom (feet)	Total depth (feet)
134-059-01CCB (Log from Independent Drilling Co.)	1/26/68	Greenhorn	560	--	--
		Dakota	980	--	--
		Lakota	1,421	--	--
					1,482
134-059-02AAA (Log from Independent Drilling Co.)	12/05/75	Greenhorn	570	--	--
		Dakota	950	--	--
		Lakota	1,142	--	--
					1,204
134-061-06DCA (Log from Independent Drilling Co.)	10/23/67	Greenhorn	735	--	--
		Dakota	1,020	1,115	--
		Lakota	1,312	1,354	--
134-063-10DDD (Log from Independent Drilling Co.)	11/04/72	Glacial drift	0	180	--
		Greenhorn	780	783	--
		Dakota	1,174	1,258	--
134-066-19DDA (Log from Independent Drilling Co.)	5/03/73	Greenhorn	1,458	1,490	--
		Muddy	1,730	1,760	--
		Dakota	2,020	2,030	--
		Lakota	2,150	2,180	--
		Sundance(?)	2,230	2,280	--

Local well number	Date completed	Geologic formation	Top (feet)	Bottom (feet)	Total depth (feet)
135-059-23CDD (Log from Independent Drilling Co.)	4/18/70	Greenhorn	585	--	--
		Newcastle	944	--	--
		Dakota	1,042	--	--
		Lakota	1,200	--	--
					1,242
136-065-36CCC (Log from Independent Drilling Co.)	6/08/73	Greenhorn	1,218	--	--
		Dakota	1,732	1,780	--
		Lakota	1,905	1,920	--
		Fall River	1,960	2,016	--

LOCAL POINT-1-PIER	GEO-LOGIC UNIT	TOTAL DEPTH OF WELL (FT.)	DATE OF SAMPLE	DIS-SILICA (MG/L)	DIS-SULFATE (MG/L)	DIS-SR. VEP (MG/L)	DIS-SOLVED CAL (MG/L)	DIS-SOLVED MAG-NE (MG/L)	DIS-SOLVED STIM (MG/L)	DIS-SOLVED SODIUM (MG/L)	DIS-SOLVED STIM (MG/L)	DIS-SOLVED PHOSPHATE (MG/L)	DIS-SOLVED CARBONATE (MG/L)	DIS-SOLVED CHLORIDE (MG/L)	DIS-SOLVED FLUORIDE (MG/L)	DIS-SOLVED NITRATE (MG/L)	DIS-SOLVED BORON (MG/L)	DIS-SOLVED SOLIDS DUE AT 140°C (MG/L)	HARDNESS (MG/L)	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE @ 25°C (UMHOS/CM)	PH	TEMPERATURE (DEG C)	
134-065-11CCD	112RGFV	254	74-11-07	18	680	1100	140	39	110	9.4	540	0	270	8.3	.2	1.0	430	905	510	67	31	2.1	1290	7.8	8.0	
134-066-190DA	217KCT	2280	74-08-14	7.5	50	50	20	12	860	10	180	0	1500	210	3.2	.23	430	2680	99	0	96	17	3880	7.4	15.0	
135-065-28CDD	217KCT	1242	74-06-02	9.9	860	120	52	15	620	25	200	0	1200	130	2.1	.05	430	2120	190	26	86	19	3060	7.7	--	
135-060-06AAA	--	46	74-06-04	19	202	340	110	38	26	6.2	450	0	110	9.2	.3	.23	0	540	430	65	11	1.5	864	7.6	--	
135-061-28CCB	112TRCC	40	75-11-20	16	20	720	120	41	60	7.7	510	0	170	11	.2	.27	120	713	470	48	21	1.2	1070	7.9	7.5	
135-061-28CDD	--	127	76-07-30	30	330	220	92	36	48	5.2	440	0	110	18	.2	2.1	40	530	380	18	21	1.1	880	7.4	8.2	
135-061-28CDD	--	95	76-07-13	31	620	800	95	35	40	4.2	390	0	140	9.0	.2	.70	40	543	380	60	18	.9	800	7.4	8.0	
135-062-070DD	112SPRD	244	75-05-21	19	780	1400	94	21	360	7.4	510	0	380	240	.3	.23	240	1430	320	0	70	8.7	2190	8.0	8.5	
135-062-11DDD2	112SPRD	110	75-03-19	20	120	180	62	21	200	7.2	350	0	94	220	.4	.00	390	824	240	0	63	5.6	1410	7.6	7.0	
135-062-16AAA	112SPRD	731	75-05-21	21	100	1000	78	21	32	4.9	310	0	95	12	.1	.11	40	458	280	29	20	.8	665	8.0	8.0	
135-063-13AAA	112SPRD	224	76-03-25	20	40	920	120	29	270	12	540	0	430	110	.2	.81	400	1310	420	0	57	5.7	1850	7.9	8.5	
135-063-25CCC	112NRVL	146	75-05-22	19	150	1800	140	49	300	14	370	0	520	290	.3	.23	240	1940	550	250	53	5.6	2350	7.9	8.0	
135-063-16BBB1	112NRVL	197	76-06-17	27	100	1100	71	20	580	12	450	0	440	440	.3	.23	260	1890	260	0	82	16	3030	8.3	8.0	
135-063-16BBB2	112NRVL	127	76-06-17	30	40	1800	130	38	370	14	550	0	670	130	.3	.23	280	1580	480	27	62	7.3	2330	8.1	7.5	
135-064-25CCD	112NRVL	155	76-03-25	20	120	1300	81	31	270	10	530	0	200	200	.3	.05	320	1090	330	0	63	6.5	1700	7.8	8.5	
135-065-23AAD	112RGFV	144	75-07-31	21	0	0	94	28	320	12	520	0	600	19	.4	.23	940	1350	350	0	66	7.4	1940	7.8	--	
136-061-10CCA	112RGFV	80	73-04-07	24	1700	440	110	48	250	5.1	490	0	330	150	.4	.23	390	1220	470	70	50	4.4	1790	7.4	--	
136-062-03CCC	112SPRD	90	75-10-16	28	2000	570	160	58	200	10	450	0	350	220	.3	--	220	1270	640	40	3.4	2000	7.8	8.0		
136-062-04DDD	112SPRD	184	75-05-21	21	2900	1500	130	50	77	9.8	480	0	280	9.5	.2	.11	710	823	530	140	24	1.5	1170	7.6	8.0	
136-062-04DDD	112SPRD	196	75-05-20	20	130	640	42	11	380	7.7	530	0	300	170	.3	.23	670	1190	150	0	84	13	1890	8.1	8.0	
136-063-01CCC	112SPRD	215	75-05-20	22	1300	220	79	25	700	8.6	460	0	240	80	.2	.59	980	883	300	0	58	5.0	1390	7.8	8.0	
136-063-06AAA	112SPRD	191	76-03-31	23	40	40	57	29	350	6.9	640	0	340	110	.3	.56	600	1250	260	0	74	9.4	1850	7.4	--	
136-063-10BBB	112SPRD	142	76-09-30	30	210	460	74	28	310	9.1	590	0	6	310	.88	.11	.02	1000	1130	300	0	58	7.8	2000	8.2	8.0
136-063-11BBB	112SPRD	95	76-03-31	24	40	360	100	39	180	7.4	540	0	240	69	.2	.14	400	959	410	0	48	3.9	1400	7.5	--	
136-064-09CC1	112NRVL	234	75-03-19	17	420	240	50	18	350	6.8	610	0	330	100	.6	.70	710	1200	190	0	79	11	1860	7.9	7.0	
136-064-18AAA	112RGFV	121	76-04-01	19	40	760	81	24	500	9.0	650	0	730	67	.4	.23	680	1760	300	0	78	13	2540	7.6	--	
136-064-24AAA	112RGFV	130	75-05-20	20	420	300	38	11	250	7.6	450	0	290	28	.4	.27	1600	898	140	0	78	9.2	1310	7.9	7.5	
136-064-29AAD1	112NRVL	155	75-07-30	22	1300	140	80	36	400	7.0	550	0	410	280	.5	.18	900	1500	350	0	71	9.3	2370	7.7	--	

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1 See page 15 for explanation.
 2 Composite sample from more than one well in the quarter section.
 3 Composite sample from more than one well in the quarter-quarter section.
 4 Composite sample from more than one well in the section.

TABLE 6.--Chemical analyses of ground water for minor elements¹
 (Dissolved mineral constituents in micrograms per liter (ug/L), except as indicated)

Location	130-062-25CCD2	131-059-29ABC	131-059-29ADC	131-062-15ACB	133-059-02BCD	133-061-01DBD	133-064-03 ²	134-062-33BDB	136-061-10CCA
City	Ellendale	Oakes	Oakes	Fullerton	Verona	LaMoure	Edgeley	Berlin	Marion
Well depth (feet)	113	58	58	1,090	1,223	20	--	132	90
Date of collection	4-20-76	9-04-75	9-04-75	4-20-76	9-04-75	10-15-75	9-04-75	4-19-76	10-16-75
Aluminum (Al)	0	0	10	0	0	10	10	0	10
Arsenic (As)	5	14	14	0	0	--	4	1	4
Barium (Ba)	<200	200	200	100	<200	100	200	200	0
Beryllium (Be)	10	<10	10	0	<10	10	10	0	10
Cadmium (Cd)	0	0	0	0	0	1	0	0	1
Chromium (Cr)	20	0	0	0	0	0	0	10	0
Cobalt (Co)	1	0	0	0	0	2	0	1	2
Copper (Cu)	1	8	25	0	0	0	0	0	0
Cyanide (Cn) (mg/L)	.00	.00	.00	.00	.00	.00	.00	.00	.00
Lead (Pb)	2	3	2	1	4	4	1	1	13
Lithium (Li)	140	30	40	310	180	40	160	180	90
Mercury (Hg)	.1	.0	.0	.1	.0	.0	.0	.1	.1
Molybdenum (Mo)	14	4	3	0	1	6	2	10	0
Nickel (Ni)	9	0	2	6	0	2	0	10	2
Selenium (Se)	0	0	0	0	0	0	0	0	0
Silver (Ag)	0	0	0	0	0	0	0	0	0
Strontium (Sr)	740	340	370	880	480	360	900	780	610
Vanadium (V)	.2	2.2	.0	11	.3	.0	3.2	1.7	2.7
Zinc (Zn)	0	20	30	30	0	10	30	90	10

¹Analyses by the U.S. Geological Survey laboratory, Salt Lake City, Utah.

²Composite sample from more than one well in the section.

TABLE 7.--Particle-size analyses

Location	Type of sample	Depth in feet	Percent particle size (diameter in millimeters)												
			Clay <0.004	Clay and silt 0.004-0.0625	Silt 0.0625-0.125	Sand				Gravel					
						Very fine 0.125-0.25	Fine 0.25-0.5	Medium 0.5-1.0	Coarse 1-2	Very fine 2-4	Fine 4-8	Medium 8-16	Coarse 16-32	Very coarse 32-64	
129-059-13D02	Core	2-2.5	--	2.3	--	14.9	51.1	28.5	3	0.1	--	--	--	--	--
129-060-12ACC1	Core	2.1-2.6	30.8	--	19.9	39.9	8.3	29.73	1.1	--	--	--	--	--	--
130-059-018BC	Core	2-2.5	18	--	13.5	10.3	18.1	26.9	12.3	.9	--	--	--	--	--
130-059-13CBC1	Grab	0-3	--	4.7	--	4	41.1	46.8	3.4	--	--	--	--	--	--
130-059-13CBC1	Grab	3-7	7.7	--	4.7	4.3	43.1	38.3	1.8	.1	--	--	--	--	--
130-059-13CBC1	Grab	7-12	7.7	--	9.6	11.7	50.6	19	1.4	--	--	--	--	--	--
130-059-13CBC1	Grab	12-16	7.1	--	15.8	2.2	21.9	26.4	14.1	.4	5.8	4	--	--	--
130-059-13CBC1	Grab	16-23	11.5	--	12.3	5.9	36.3	29	4.8	.3	--	--	--	--	--
130-059-13CBC1	Grab	23-28	9.8	--	9.2	6.4	47.7	28.5	2.3	--	--	--	--	--	--
130-059-13CB01	Grab	0-2	--	3.9	--	14.9	34.7	43.9	2.4	.1	--	--	--	--	--
130-059-13CB01	Grab	2-5	--	3.2	--	5.9	21.9	63	5.9	.1	--	--	--	--	--
130-059-13CB01	Grab	5-11	6.4	--	3.2	2.2	16.8	24.4	46.2	.8	--	--	--	--	--
130-059-13CB01	Grab	11-15	--	4.3	--	4.2	36	47.3	8	.3	--	--	--	--	--
130-059-13CB01	Grab	15-18	4.5	--	8.4	7.4	58.2	18.4	3	.1	--	--	--	--	--
130-059-13CB01	Grab	18-25	8.1	--	12.6	2.7	37.7	26.3	10.2	.8	1.2	.3	--	--	--
130-059-13CB01	Grab	25-38	--	4.7	--	4.3	60.6	27	3.3	.2	--	--	--	--	--
130-059-13CB01	Grab	38-49	4.9	--	8.1	6.8	46.2	28.7	4.6	.6	--	--	--	--	--
130-059-13CB02	Grab	0-4	--	4.2	--	7.2	68.7	19.1	.8	--	--	--	--	--	--
130-059-13CB02	Grab	4-10	--	3.6	--	4.2	29.8	42.1	19.2	2.1	--	--	--	--	--
130-059-13CB02	Grab	10-15	--	3.8	--	4.6	28.2	32.3	30.1	1	--	--	--	--	--
130-059-13CB02	Grab	15-26	--	2.2	--	8.8	77	24.3	2.3	.1	--	--	--	--	--
130-059-13CB02	Grab	26-32	--	2	--	7.6	67.2	21.1	2	.1	--	--	--	--	--
130-059-13CB02	Grab	32-37	4.9	--	8.5	12	63	8.1	3.4	.1	--	--	--	--	--
130-059-13CB02	Grab	37-43	5.1	--	8.7	9.3	51.9	23.4	1.4	.1	--	--	--	--	--
130-059-13CB02	Grab	43-48	--	--	12	7.9	49.7	28.4	2.2	--	--	--	--	--	--
130-059-13CB03	Grab	0-4	10.3	--	9.4	13.4	26.9	33.8	6.2	--	--	--	--	--	--
130-059-13CB03	Grab	4-8	4	--	5	2.5	24.4	63.1	.9	--	--	--	--	--	--
130-059-13CB03	Grab	8-12	--	3.8	--	2.9	26	50.6	15.8	.9	--	--	--	--	--
130-059-13CB03	Grab	12-13.5	--	3.3	--	2	19.4	30.7	43.1	1.4	--	--	--	--	--
130-059-13CB03	Grab	13.5-15	--	3.3	--	3.1	29.5	38.4	22	2.5	.9	.3	--	--	--
130-059-13CB03	Grab	15-21	--	3	--	4.5	56.1	24.5	11.4	.5	--	--	--	--	--
130-059-13CB03	Grab	21-27	--	.8	--	4	62.4	29.6	2.8	.4	--	--	--	--	--
130-059-13CB03	Grab	27-33	--	3.4	--	6.2	71.6	14.4	4.3	.1	--	--	--	--	--
130-059-13CB03	Grab	33-37	5.4	--	8.6	14.1	61.8	8.9	1.3	--	--	--	--	--	--
130-059-13CB03	Grab	37-43	5.2	--	7.5	7.9	51.6	26.5	1.2	.1	--	--	--	--	--
130-059-13CB03	Grab	43-48	2	--	7.3	5.5	52.9	29.7	2.5	.1	--	--	--	--	--
130-059-13CB03	Grab	48-52.5	7.9	--	7.9	4.8	25.9	47.7	5.4	.4	--	--	--	--	--
130-059-13CB03	Grab	52.5-53.5	15.7	--	11	12.3	35.8	19.9	5.2	.1	--	--	--	--	--
130-059-13CCC2	Grab	0-3	6.8	--	5.7	3.5	31.5	41.6	8.9	2	--	--	--	--	--
130-059-13CCC2	Grab	3-8	--	3	--	2.2	26.4	47	18.1	2.1	.9	.2	0.1	--	--
130-059-13CCC2	Grab	8-13	--	3.9	--	4.3	49.4	36.4	5.8	.2	--	--	--	--	--
130-059-13CCC2	Grab	13-19	6.5	--	7.4	3.9	28.7	21.3	27.9	1.5	1.8	1.1	--	--	--
130-059-13CCC2	Grab	19-25	4.8	--	9.1	20.7	57.3	6.7	1.2	.1	--	--	--	--	--
130-059-13CCC2	Grab	25-29	--	5	--	14.2	56.8	16.5	4.8	.7	--	--	--	--	--
130-059-13CCC2	Grab	29-30	--	4.5	--	9.4	49.7	16.1	15.1	2.8	1.5	.6	.1	--	--
130-059-3498B	Core	2-2.5	9.9	--	4	34.2	38.7	12.6	.55	.1	--	--	--	--	--
130-059-3688B1	Core	2-2.5	28.3	--	26.3	18.4	10.2	8.6	5.4	2.8	--	--	--	--	--
131-059-20CCC1	Core	2-2.5	34.4	--	9.8	25.4	17.3	12.4	.69	--	--	--	--	--	--

¹Core sampling location only.