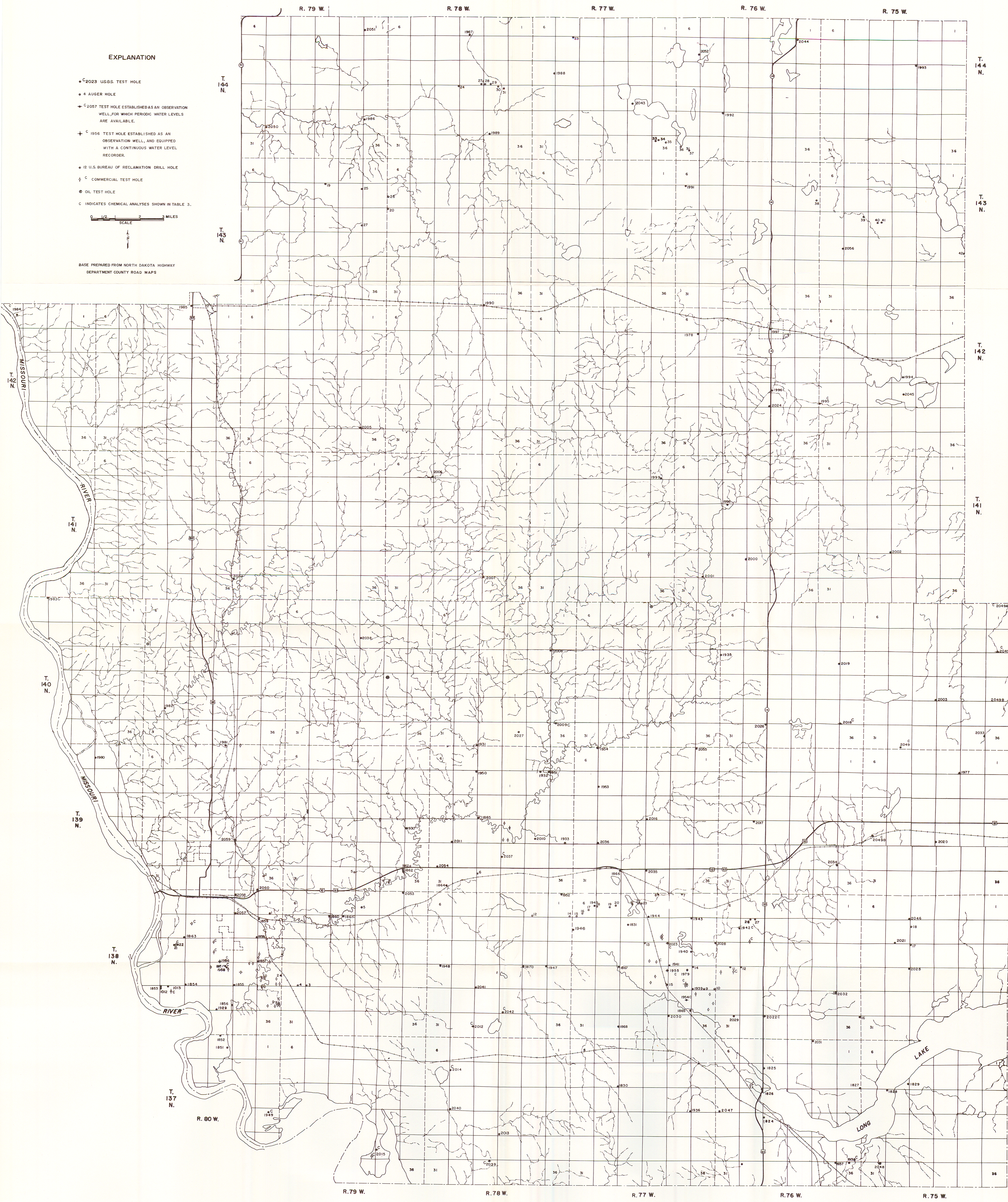
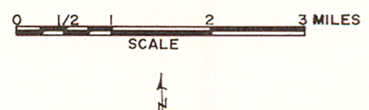


FIGURE 3.— MAP OF BURLEIGH COUNTY, NORTH DAKOTA,
SHOWING LOCATION OF WELLS



EXPLANATION

- C 2023 U.S.S. TEST HOLE
- A AUGER HOLE
- C 2057 TEST HOLE ESTABLISHED AS AN OBSERVATION WELL FOR WHICH PERIODIC WATER LEVELS ARE AVAILABLE.
- + C 1956 TEST HOLE ESTABLISHED AS AN OBSERVATION WELL, AND EQUIPPED WITH A CONTINUOUS WATER LEVEL RECORDER.
- 12 U.S. BUREAU OF RECLAMATION DRILL HOLE
- C COMMERCIAL TEST HOLE
- O OIL TEST HOLE
- C INDICATES CHEMICAL ANALYSES SHOWN IN TABLE 3.



BASE PREPARED FROM NORTH DAKOTA HIGHWAY DEPARTMENT COUNTY ROAD MAPS

FIGURE 4.— MAP OF BURLEIGH COUNTY, NORTH DAKOTA, SHOWING LOCATION OF TEST HOLES

TABLE 3.--Chemical analyses of ground water in Burleigh County, North Dakota

Source of water: Qal, alluvium; Qd, glacial drift; Kfh, Cretaceous Fox Hills Sandstone; Knc, Cretaceous Hell Creek Formation; Tc, Tertiary Cannonball Formation; Tr, Tertiary Tongue River Formation.

[Analytical results in parts per million except as indicated]

No.	Location	Depth (feet)	Source of water	Date of collection	Temperature (°F)	Silica (SiO ₂)	Total iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO ₃)	Carbonate (CO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Boron (B)	Dissolved solids		Hardness as CaCO ₃		Percent sodium	Sodium adsorption ratio	Specific conductance (micro-mhos at 25°C)	pH	Color
																			Sum	Residue on evaporation at 100°C	Calcium	Non-carbonate					
1	137-75-22add	82	Qd	9-17-63	49	21	0.26	90	18	33	7.0	1,329	0	94	6.0	1.0	0.25	0.25	434	1,558	300	30	18	0.8	734	7.7	10
2	137-76-52aa	190	Kfh	9-17-63	49	12	0.78	5.6	1.2	610	1.8	1,153	0	256	0.9	0	0	0	1,500	1,510	20	98	60	2,496	8.4	35	
3	137-76-82add	215	Qd	9-17-63	48	21	0.22	23	0.5	211	0.1	1,153	0	112	2.0	1.0	0	0	780	803	92	84	12	1,033	8.1	90	
4	137-76-82aaa	182	Qd	9-17-63	48	20	1.34	23	8.5	246	13	641	0	112	2.0	1.0	0	0	780	803	92	84	12	1,033	8.1	90	
5	137-76-32bbb	305	Kfh	5-21-63	48	44	1.53	40	43	76	3.6	356	0	41	2.0	0.4	0	0.25	534	529	276	0	37	2.1	888	7.0	80
6	137-76-36bbb	199	Qd(?)	8-31-61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	137-76-36ba	180	Qd	1961	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	137-77-17aaa	90	Knc	9-17-63	48	21	2.24	31	12	212	9.1	641	0	72	6.0	0	0	0	690	700	140	0	73	7.7	1,332	7.6	40
9	137-77-22aba	266	Knc	9-17-63	48	18	3.55	8.8	6.1	155	6.0	354	0	98	8.0	1.1	0	0	478	466	40	86	10	743	8.0	75	
10	137-78-28ba	216	Qd	7-18-62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	137-78-28aaa	290	Qd	9-17-63	50	16	1.24	12	1.9	510	8.0	940	0	312	29	0.6	3.1	1.90	1,260	1,280	168	0	83	14	1,890	7.9	..
12	137-78-32ba	185	Qd	8-6-62	48	31	2.7	65	21	394	7.6	829	0	360	23	0	2.5	1.4	1,320	1,340	247	0	77	11	2,475	8.2	15
13	137-79-6aa	200	Knc	1-19-51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	137-79-26bbb	86	Qal	8-6-62	48	28	0.86	49	13	613	4.5	1,120	0	492	35	1.1	3.2	2.3	1,790	1,840	178	0	88	20	2,620	7.8	..
15	137-79-27dd	95	Qal	11-60	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	137-80-1cbb2	165	Knc(?)	1-18-51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	137-80-11dda	125	Knc	1-19-51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	137-80-13daa	197	Knc	1-19-51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
19	137-80-24aba	126	Qal	9-61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	137-80-24aba	302	Knc	9-17-63	40	27	0.96	14	11	500	14	780	0	420	124	0.6	0	2.85	1,470	1,568	60	0	92	24	2,977	8.1	10
21	137-78-28aaa	175	Qd	9-17-63	46	20	0.44	63	50	390	19	592	0	700	14	0.2	20	1.30	1,576	1,568	360	0	69	9.0	2,100	7.8	10
22	137-76-77add	147	Qd	11-10-61	46	29	0.34	54	15	402	6.2	737	0	422	25	0.4	3	1.9	1,320	1,360	198	0	81	12	1,950	7.6	..
23	137-76-19ba	70	Qd	1961	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	137-76-28abb1	149	Knc	9-17-63	46	20	1.1	31.6	6.4	905	25	1,955	15	33.7	85	1.9	0	4.08	2,331	2,335	90	0	96	60	3,806	8.3	35
25	137-76-28abb2	35	Qd	9-17-63	46	31	1.44	79	33	60	10	350	0	150	4.0	0.7	2.0	0	562	662	332	10	27	1.5	2,907	7.8	10
26	137-76-33bbb	110	Qd	8-6-62	45	30	0.17	103	36	277	9.8	548	0	486	8.2	0.4	4.8	0.80	1,250	1,270	405	0	59	6.0	1,770	7.6	..
27	137-77-15aaa	210	Qd	8-6-62	46	29	2.3	74	28	353	8.9	744	0	381	19	0.5	5.4	1.1	1,270	1,280	300	0	71	8.0	1,950	7.6	..
28	137-77-15aaa	138.4	Qd	9-8-61	46	28	4.4	70	22	331	7.5	713	0	353	24	0.6	0	1.7	1,190	1,210	264	0	72	8.8	1,780	7.4	..
29	137-77-15aaa	138.4	Qd	10-16-63	47	23	0.86	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	137-77-15aaa	138.4	Qd	10-16-63	49	23	0.96	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31	137-77-22add	126	Qd	9-61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
32	137-77-23add1	105	Qd	10-31-61	48	29	0.87	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
33	137-77-23add1	105	Qd	11-3-61	47	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
34	137-77-23add1	78.2	Qd	9-9-61	47	29	1.2	71	21	260	6.6	772	0	207	18	0.1	1.4	0	980	264	0	67	6.9	1,480	7.8	..	
35	137-77-23add1	78.2	Qd	9-18-63	47	23	0.46	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
36	137-77-28aaa	63	Qd	9-61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37	137-78-15aaa	190	Knc	9-17-63	47	24	1.08	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
38	137-78-27ccc	210	Qd	8-3-62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
39	137-78-27aaa	280	Knc(?)	9-17-63	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
40	137-78-32aaa	185	Qd	8-3-62	50	30	1.7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
41	137-79-2abb	105	Qd	1-20-61	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
42	137-79-22aaa	109	Qd	1-19-51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
43	137-79-18aaa	142	Knc(?)	9-6-62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
44	137-80-2aaa	142	Qd	9-8-62	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
45	137-80-2aaa	390	Knc	6-11-51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
46	137-80-2aaa	170	Kfh	1-18-51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
47	137-80-2aaa	47	Kfh	1-18-51	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
48	137-80-15aaa	180	Qd	9-7-61	51	28	7.4	80	26	375	6.8	680	0	413	18	0.8	0	2.55	1,600	1,620	125	0	87	16	1,860	7.9	..
49	137-80-15aaa	164	Qd	9-7-61	48	29	6.8	85	27	253	7.0	607	0	235	47	0.2	0.82	1,030	1,050	384	0	62	6.1	1,970	7.5	..	
50	137-80-15aaa	168	Qd	9-61	..	..	..	..	..</													