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DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GROUND-WATER DATA FOR SELECTED COAL AREAS IN WESTERN NORTH DAKOTA

By James D. Wald and Steven W. Norbeck

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SELECTED FACTORS FOR CONVERTING INCH-POUND UNITS TO THE INTERNATIONAL SYSTEM (SI) OF UNITS

For those readers who may prefer to use the International System (SI) of units rather than inch-pound units, the conversion factors for the terms used in this report are given below.

Multiply inch-pound unit	By	To obtain SI unit
Acre	0.4047	hectare (ha)
Foot (ft)	0.3048	meter (m)
Inch (in.)	25.40	millimeter (mm)

National Geodetic Vertical Datum of 1929 (NGVD of 1929): A geodetic datum derived from a general adjustment of the first-order nets of both the United States and Canada, formerly called "Mean Sea Level."

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ABSTRACT

Ground-water data are provided in this report for the Sand Creek-Hanks, New England-Mott, Dickinson, and Bowman-Gascoyne coal areas, western North Dakota. The report contains the following: (1) Maps showing the location of wells, springs, and test holes; the location of wells and test holes where drillers' logs are available; and the location of wells with chemical analyses; and (2) tables showing well, spring, and test-hole records; logs; and chemical analyses of water. Descriptions of the location of data-collection sites and methods used to collect data are included.

INTRODUCTION

The U.S. Geological Survey conducted a ground-water inventory in selected areas of the Fort Union coal region of western North Dakota (fig. 1) to provide information to the Bureau of Land Management as an aid in making leasing decision. The inventory was made possible by funds from the U.S. Geological Survey Environmental Affairs Office.

The areas of inventory were selected on the basis of coal availability and Bureau of Land Management interest. These are areas of probable development in the near future, and a data base of premining hydrologic conditions is necessary to evaluate probable impacts.

This report includes previously collected data as well as that collected under the present project for four areas in the Fort Union coal region of western North Dakota. These areas are: Sand Creek-Hanks, New England-Mott, Dickinson and Bowman-Gascoyne. The data are compiled by area at the end of the report.

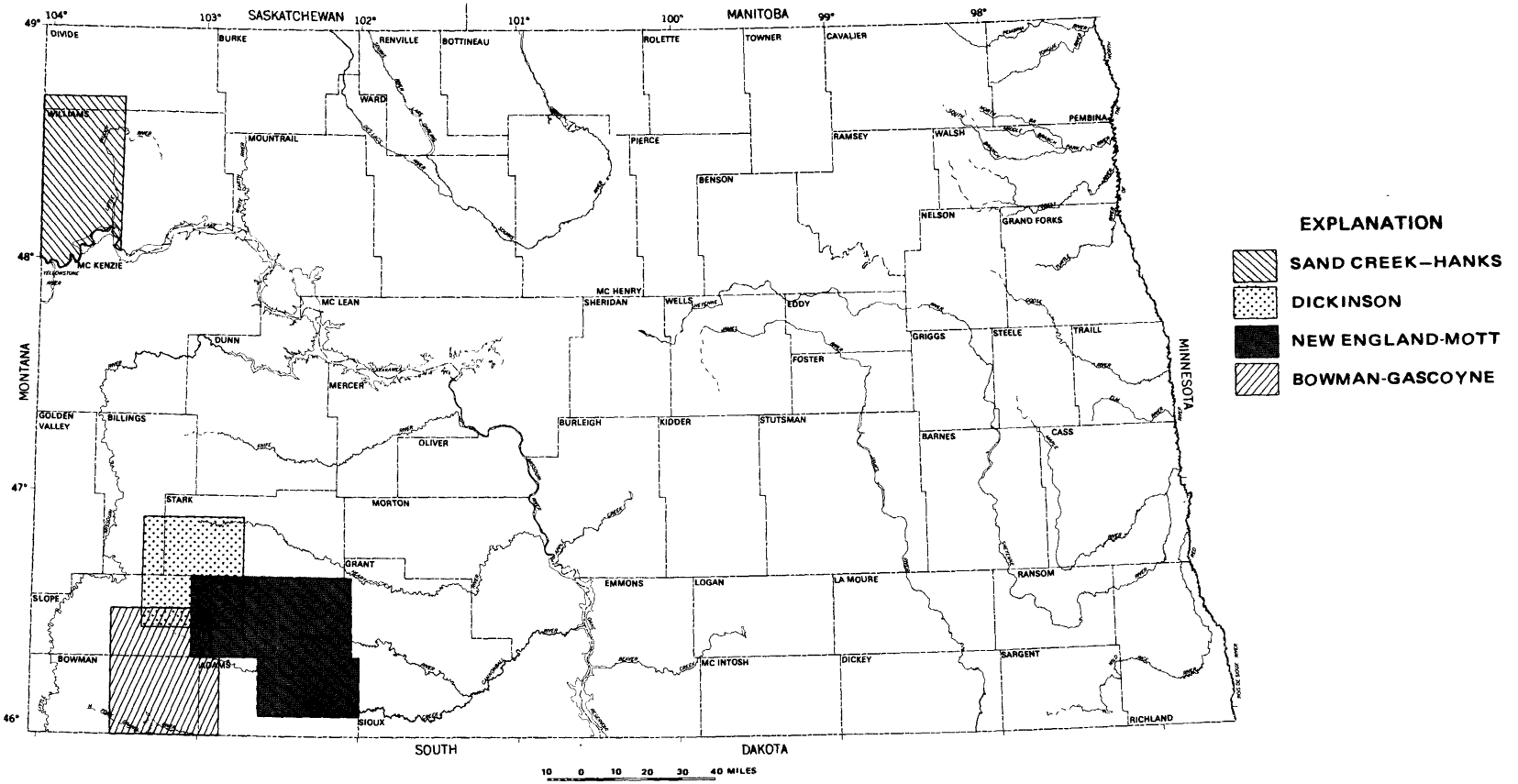

FIGURE 1.—Locations of study areas.

Location-Numbering System

The location-numbering system used in this report is based on the public land classification system used by the U.S. Bureau of Land Management. The 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 or 4-ha tract). For example, well 154-103-15ADC is in the SW1/4SE1/4NE1/4 sec. 15, T. 154 N., R. 103 W. Consecutive terminal numerals are added if more than one well or test hole is recorded within a 10-acre (4-ha) tract.

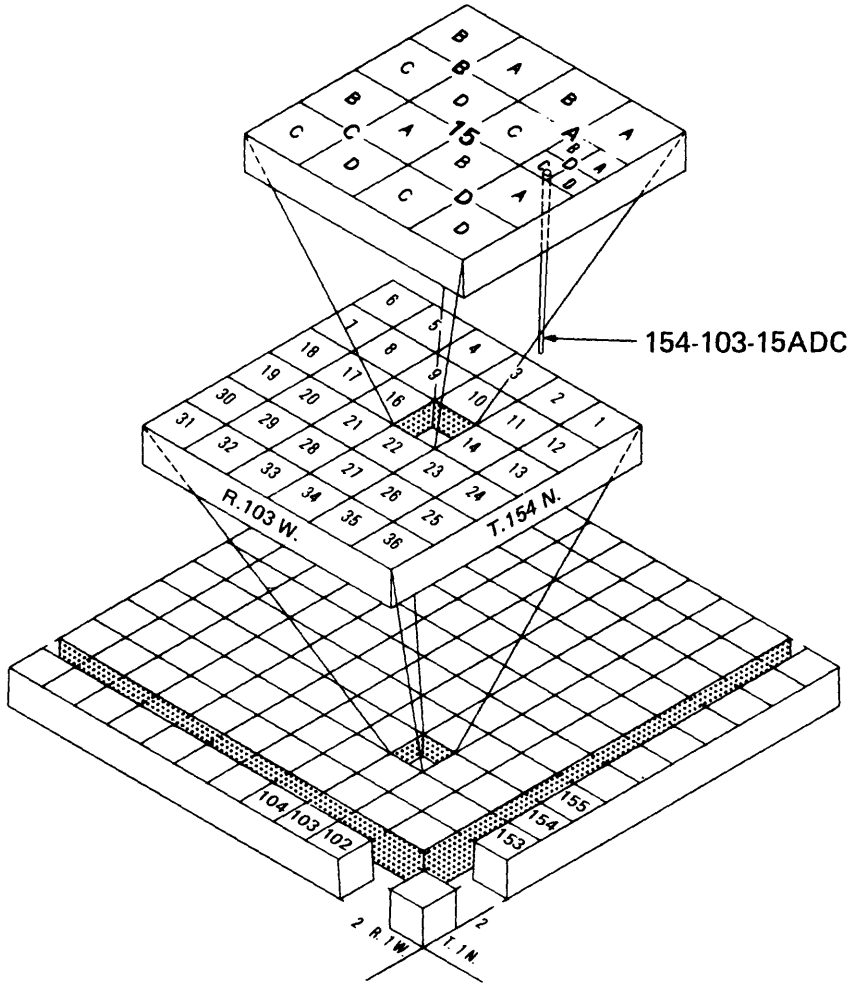

FIGURE 2.—Location-numbering system.

Logs of Wells and Test Holes

Logs collected from water-well drillers, North Dakota State Water Commission, and other sources are included in tables 2, 5, 8, and 11, and locations are shown in figures 4, 7, 10, and 13. Minor changes in word order have been made on some of the drillers' logs. Most test holes and some municipal, industrial, and private wells have geophysical logs in addition to a description of the material penetrated. The geophysical logs are useful for correlation of geologic units. 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).

Previously published logs are not included in this report and may be found in the County Ground-Water Studies series listed in the Selected References section of this report (See Anna, Armstrong, Croft, and Schmid).

Water Quality

The mineral constituents and physical properties of water are reported in tables 3, 6, 9, and 12, and locations are shown in figures 5, 8, 11, and 14. Water samples were obtained from privately owned wells and from the North Dakota State Water Commission observation wells by airlift or a submersible pump. Generally, sufficient water was pumped to clear the well column before 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. Methods of chemical analyses were generally those described by Brown and others (1970) and Skougstad and others (1979). The results are expressed in milligrams per liter (mg/L) or micrograms per liter (ug/L). A microgram per liter is one- thousandth of a milligram per liter.

EXPLANATION OF TABLES AND METHODS OF DATA COLLECTION

The data in this report are listed in tables 1-12. The points of collection are shown in figures 3-14. The data consist of the following: (1) Geologic and hydrologic records of wells, springs, and test holes; (2) lithologic logs of test holes and wells; and (3) chemical analyses of ground water.

Records of Wells, Springs, and Test Holes

Records of selected wells, springs, and test holes and are given in tables 1, 4, 7, and 10, and locations are shown in figures 3, 6, 9, and 12. Well depth is the depth of casing for open-bottom wells or the base of the deepest well screen for screened wells. Many test holes were converted to observation wells for periodic water-level measurements and water-quality sampling. At some sites several observation wells were installed in order to obtain water levels and water samples from several aquifers. The observation wells were constructed of 1 1/4-inch (32mm) plastic casing with 3- or 6-foot (0.9- or 1.8-m) screens, 2-inch (51-mm) steel or plastic casing with 6-, 12-, or 18-foot (1.8-, 3.7-, or 5.4-m) screens, 4-inch (102-mm) steel casing with open-bottom completion, or 4-inch (102-mm) plastic casing with 10-foot (3-m) screens. The observation wells were developed by backwashing with trisodium phosphate and were then pumped a minimum of 8 hours for development before water samples were collected for analysis.

Drinking-water standards have been recommended by the National Academy of Sciences-National Academy of Engineering (1972) at the request of the Environmental Protection Agency. Standards for public drinking-water supplies were established by the U.S. Environmental Protection Agency (1976). These standards include the following recommended limits: iron (Fe), 300 ug/L; manganese (Mn), 50 ug/L; sulfate (SO_4), 250 mg/L; and chloride (Cl), 250 mg/L.

The following summation for farmstead use is modified from the Federal Water Pollution Control Administration (1968, p. 116) and the National Academy of Sciences-National Academy of Engineering (1972).

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 compounds are common in rocks and may be leached by ground water. Water containing more than 300 ug/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.

Manganese (Mn)

Manganese in concentrations as low as 200 ug/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 dolomite rocks are the principal source of calcium and magnesium in natural water. Calcium and magnesium cations 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 is generally unsatisfactory for irrigation. 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).

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	
Odor	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 supply:	
	Substances	
	Arsenic (µg/L)---[a]/50	
	Barium (µg/L)---[a]/1,000	
	Cadmium (µg/L)---[a]/10	
	Chromium (µg/L)---[a]/50	
	Cyanides (µg/L)---200	
	Lead (µg/L)---[a]/50	
	Selenium (µg/L)---[a]/10	
	Silver (µg/L)---[a]/50	
Other trace elements	Levels shown below should not be exceeded if alternate sources are available:	
	Substances	
	Manganese (µg/L)---50	In dairy sanitation, water should contain <20,000 µg/L potassium and <100 µg/L iron and copper.
	Iron (µg/L)---300	
	Copper (µg/L)---1,000	
	Zinc (µg/L)---5,000	
	Fluoride (µg/L) 700-1,200 ([a]/2,400)	
	Nitrate (as N) (µg/L)---[a]/10,000	

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

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:

$$\text{Alkalinity (As } CaCO_3) = 0.82(HCO_3)+1.67(CO_3)$$

Sulfate (SO_4)

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

Chloride (Cl)

Chloride is present in all natural water, but the concentrations usually are not great. Chloride may be leached from sedimentary rocks that were deposited under marine conditions. Chloride concentrations of 400 mg/L impart a noticeable salty taste for most people.

Fluoride (F)

Fluoride in ground water is probably derived from solution of fluorite, apatite, and hornblende minerals. High fluoride content (depending on annual average maximum daily air temperature) may cause mottling of tooth enamel in childern's teeth during calcification.

Nitrate (NO_3)

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 (blue babies) in infants (Comly, 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.

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 often uses the following classification of water hardness.

Calcium and magnesium hardness, as $CaCO_3$ (milligrams per liter)	Hardness description
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 other major cations, expressed 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:

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

where the concentrations of the ions are expressed in milliequivalents per liter. The U.S. Salinity Laboratory Staff (1954) divided water into 16 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 65 to 70 percent of the specific conductance (in micromhos) is used as an estimate of the amount of dissolved solids (in milligrams per liter) in water; however this relation is not constant and will vary with the chemical composition of the water (Hem, 1970).

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 capacity 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. For example, high temperature precludes its use as an industrial coolant. Temperature is also important, for its influence upon concentrations of dissolved gases and mineral matter in water. Water temperatures given in the tables 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

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24 (OBVERSE FIGURE)

TABLE 1.--Records of wells, springs, and test holes in the Sand Creek-Hanks coal area.

Owner

COE 301, Corps of Engineers, test hole number 301

NDSWC 27-776, North Dakota State Water Commission, test hole number 27-776

USBR AH-20, United States Bureau of Reclamation, test hole number AH-20

USGS, United States Geological Survey

Water level (feet)

Water level, in feet below or above (+) land surface

D, dry
F, well flows
R, recently pumped

Use of water

H, domestic
I, irrigation
N, industrial
P, public supply
S, stock supply
T, test hole
U, unused

Principal aquifer

111, Holocene
112, Pleistocene
125, Paleocene

ALVM, alluvium
FRUN, Fort Union Formation
GCDF, Glacial drift, undifferentiated
GLCL, Glacial deposits, undifferentiated
GRNR, Grenora aquifer
LLMD, Little Muddy aquifer
RAY, Ray aquifer
SNLB, Sentinel Butte Member of Fort Union Formation

Specific conductance

Value shown is the field specific conductance measured at the well at the time of inventory.

Altitude of land surface (feet)

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
154-100-05BCC1	SMITH, B & R	--	65	--	6	1960	33.00		1960	H,S	--	--	--	--
154-100-05BCC2	SMITH, B & R	--	122	--	--	--	80.00		1965	H,S	--	--	--	--
154-100-07A6B	TEST HOLE 5 776	--	74	--	4.75	06/ /1961	--		--	--	--	--	--	1892
154-100-13CA	KIRKPATRICK, M.	--	--	--	--	--		F	--	S	--	--	--	--
154-100-1488B	USGS	260	0	--	--	10/07/1976	--		--	U	125SNLB	--	--	2125
154-100-14CBB	KNOSHAUG, M.	--	20	--	36	--	13.00		1964	H,S	--	--	--	--
154-100-15CAC	USGS	180	0	--	--	10/07/1976	--		--	U	125SNLB	--	--	2050
154-100-19BAD	LUND, H.	--	50	--	5	--	30.00		1964	H	--	--	--	--
154-100-20BBA	DAKOTA SALT CO	--	48	--	12	1959	38.00		1965	N	112GCDF	14100	9.5	--
154-100-20BBB	DAKOTA SALT CO	--	51	--	12	--	38.00		1965	N	112GCDF	87400	9.5	--
154-100-21BCC	KNUTSON, M	--	115	--	5	1957	95.00		1964	S	--	--	--	--
154-100-21BCD	FEDORENKO, A.	--	116	--	4	--	90.00		1965	S	--	--	--	--
154-100-21DDD	JENNER, E.	--	12	--	36	--	9.00		1964	H	--	--	--	--
154-100-22A	RAY, N.	--	--	--	--	--		F	--	S	--	--	--	--
154-100-22AAA	RAY, N.	--	18	--	24	1953	8.00		1964	--	--	--	--	--
154-100-27ABA2	FOSTER, R.	--	60	--	5	1962	48.00		1964	H	--	--	--	--
154-100-28BCC	NDSWC 27-776	--	52	--	4.75	08/ /1961	--		--	--	--	--	--	1880
154-100-29DBD	NDSWC 28-776	--	42	--	4.75	08/ /1961	--		--	--	--	--	--	1850
154-100-35BA	SKURDAL, A.	--	--	--	--	--		F	--	S	--	--	--	--
154-101-01CCD	NDSWC 24-776	--	147	--	4.75	07/ /1961	--		--	--	--	--	--	1880
154-101-02ABC	TUBOSCOPE	116	116	106	4.50	10/18/1979	72.00		10/18/1979	H	--	1700	10.0	--
154-101-02AD	ALLEN, L	--	110	--	4	1950	60.00		1964	S	--	--	--	--
154-101-02BBB	HAGEN, E	--	35	--	24	1966		F	--	S,I	125FRUN	961	--	961
154-101-02BCB	HAGEN, E	--	53	--	24	1966		F	--	S,I	125FRUN	1180	--	1180
154-101-02CCC	NDSWC 1-776	--	220	--	4.75	06/ /1961	--		--	--	--	--	--	1958
154-101-02CDD	NDSWC 3-776	--	189	--	4.75	06/ /1961	--		--	--	--	--	--	1940
154-101-03CCD	WILLISTON, CITY	80	76	71	1.25	03/24/1981	72.82		03/24/1981	U	--	--	--	--
154-101-03CDC	WILLISTON, CITY	65	60	55	1.25	03/24/1981	57.85		03/24/1981	U	--	--	--	--
154-101-03DCC	WILLISTON, CITY	70	62	58	1.25	03/24/1981	44.50		03/24/1981	U	--	--	--	--
154-101-09DCD	BARKIE, A.	--	138	--	4	1964	--		--	H	--	--	--	--
154-101-12AAA	NDSWC 4-776	--	231	--	4.75	06/ /1961	--		--	H	--	--	--	1855
154-101-12BBA	NDSWC 2-776	--	147	--	4.75	06/ /1961	--		--	--	--	--	--	1880
154-101-12BBD	NDSWC 23-776	--	136	--	4.75	07/ /1961	--		--	--	--	--	--	1880
154-101-15BBD	HAGEN, E.	--	7	--	30	--	1.00		1964	H,S	--	--	--	--
154-101-16AA	HAGEN, E.	--	160	--	4	1962	80.00		1964	S	--	--	--	--
154-101-21AA	HAGEN, E	--	160	--	4	1962	60.00		1964	S	--	--	--	--
154-101-21DDD	BORSHEIM BROS.	--	65	--	18	--	20.00		1965	N	--	1670	8.5	--
154-101-23CBC	MONT DAK UTIL	--	661	--	10	1954	48.00		1965	N	--	--	--	--
154-101-24BAD	WILLISTON, CLINIC	--	143	--	10	1954	75.00		1954	H	--	--	--	--
154-101-24CBB	FARMERS UNION, CREAMERY	--	219	--	10	1928	34.00		1965	N	--	--	--	1880

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	SPECIFIC CONDUCTANCE (UMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
154-101-24CCA	PETERSONS, CREAMERY	--	163	--	5	1955	45.00	1965	N	--	--	--	--
154-101-26CCA	COE 301	--	125	--	--	1954	--	--	--	--	--	--	1843
154-101-28BAD	MANZ, A	--	120	--	6	1963	10.29	10/21/1965	I	--	--	--	--
154-101-28BDC	COE 171	--	55	--	--	1953	--	--	--	--	--	--	1844
154-101-28CBA	COE 172	--	45	--	--	1953	--	--	H	--	--	--	1844
154-101-29DCC	COE 994	--	57	--	--	1953	--	--	--	--	--	--	1847
154-101-31ADD	COE 999	--	143	--	--	1953	--	--	--	--	--	--	1848
154-101-32BAB	COE 1077	--	225	--	--	1954	--	--	--	--	--	--	1845
154-101-32BBD	COE 997	--	204	--	--	1953	--	--	--	--	--	--	1846
154-102-03ADD	LARSON, G.	--	90	--	18	--	80.00	1965	S	--	--	--	--
154-102-06CCC	ANDERSON, A.	--	33	--	24	1945	20.00	1965	H	--	1250	6.5	--
154-102-10DDD	BAESLER, DUANE	360	360	350	4.50	07/15/1978	200.00	07/15/1978	S	--	3900	10.0	--
154-102-13AAD	DRILLING CO., NICOR	92	82	72	5	06/05/1981	60.00	06/05/1981	H	--	1300	10.0	--
154-102-13DAA	HUNT	100	100	90	4.50	09/11/1961	45.00	09/11/1981	H	--	--	--	--
154-102-14DDA	WALTON, HUBERT D	146	146	138	4.50	04/24/1978	128.00	04/24/1978	H	125FRUN	2330	13.0	--
154-102-17CDD	MORTONSON, W.	--	208	--	6	--	166.00	1957	H,S	--	2400	--	--
154-102-22AOD	WOODS ACRES, PAINTED -	297	297	257	4.50	12/29/1980	76.00	12/29/1980	H	125FRUN	2800	9.5	--
154-102-22CCC	HIGGINS, P.	--	68	--	5	1963	42.00	1965	H	--	3200	--	--
154-102-23CCB	MALVERSON, GERALD	187	187	177	4	06/17/1980	109.00	06/17/1980	H	--	3200	13.0	--
154-102-23CDD	JEANNOTTE, WILLARD	271	271	251	4.50	05/17/1978	142.00	05/17/1978	H	--	1660	9.5	--
154-102-24DDB	EIKOM, DEVIN	110	110	100	4.50	12/28/1979	75.00	12/28/1979	H	125FRUN	1160	10.0	--
154-102-25ABD	NO EXPER. STA.	--	110	--	4	1957	92.00	1962	H	112GCDF	680	--	--
154-102-28ABB	HIGGINS, JIM	177	175	165	4.50	04/10/1978	74.00	04/10/1978	H	--	2800	10.5	--
154-102-34DC	HANSEN, E.	--	--	--	--	--	F	--	S	--	--	--	--
154-103-03ABB	ARNSTED, J	--	78	--	--	1910	77.00	1964	H,S	--	--	--	--
154-103-04CCC	OYLOE, L.	--	65	--	6	1948	34.00	1964	H,S	--	--	--	--
154-103-05DAD	BROTHERS, OYLOE	53	53	43	4.50	06/23/1979	22.00	06/23/1979	S	125FRUN	1190	9.5	--
154-103-07BBB1	HAUGEN, O.	--	15	--	--	1910	12.00	1964	S	--	--	--	--
154-103-07BBB2	HAUGEN, O.	--	40	--	4	1963	22.00	1964	H,S	--	--	--	--
154-103-07DCA	EXPLORATION, TREND	385	385	340	4.50	10/25/1980	110.00	10/25/1980	N	--	1200	10.5	--
154-103-08AAA	OYLOE, MARK	84	77	67	4	04/08/1980	54.50	04/08/1980	H	--	1410	10.0	--
154-103-09CBB	TESTHOLE	--	20	--	4.75	09/ /1965	--	--	--	--	--	--	2247
154-103-10DCC	JELLISON, A.	--	120	--	--	1908	--	--	H	--	--	--	--
154-103-13BCA	ANDERSON, ANDERS	160	160	148	4.50	10/08/1980	75.00	10/08/1980	H	--	3210	10.5	--
154-103-13BCB	ANDERSON, DAN	230	230	215	4.50	10/10/1980	72.00	10/10/1980	H	--	2430	11.0	--
154-103-13BDB	ANDERSON, C.	--	90	--	24	1930	85.00	1964	H,S	--	--	--	--
154-103-16BCC	OYLOE, H	--	60	--	6	1952	--	--	H	--	--	--	--
154-103-16DDD	ANDERSON, C	--	72	--	24	1952	64.00	1964	H,S	--	--	--	--
154-103-17DD	LARSON, E.	--	38	--	6	1948	--	--	H	--	--	--	--
154-103-19CBB	BRAATEN, LLOYD	--	60	--	24	1904	50.00	1964	U	--	--	--	--

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154-103-19DDD	HAUGEN, C	--	24	--	8	1949	12.00		1964	H,S	--	1800	12.0	--
154-103-21CDD	CULLEN, MIKE	110	110	104	4.50	08/26/1978	62.00		08/26/1978	H	--	2480	12.0	--
154-103-22CCC	REIER, HAROLD	220	220	205	4.50	10/27/1979	169.00		10/27/1979	H	--	3300	11.0	--
154-103-24CCA	DRAGSETH, HAROLD	312	290	215	4	09/27/1980	180.00		09/27/1980	H	125FRUN	2930	10.0	--
154-103-24DBB	MILLER, JEFF	235	235	215	4.50	06/17/1981	172.00		06/17/1981	H	--	3400	10.0	--
154-103-24DBD	BEARD, DARYLE	145	145	125	4.50	05/16/1978	111.00		05/16/1978	H	--	2600	9.5	--
154-103-30BAA	BRUNELLE, W	--	200	--	--	1962	180.00		1964	H,S	--	--	--	--
154-103-30CCB	ELLINGSON, O	--	350	--	4	1962	210.00		1964	H,S	--	--	--	--
154-103-34BAA	NEHRING, CHARLES	117	117	112	4.50	03/31/1978	99.00		03/31/1978	H	--	3180	10.0	--
154-104-23DDD	CHRISTIANSON, W	--	162	--	4	1963	102.00		1964	H	--	--	--	--
154-104-24DAA	BRAATEN, L.	--	260	--	6	1923	160.00		1964	H,S	--	--	--	--
154-104-26CCA	CHRISTIANSON, HARLIN	110	110	100	4.50	10/07/1977	84.00		10/07/1977	S	--	--	--	--
155-100-06AAA	NDSWC 1425	--	126	--	4.75	--	--		--	H	112GLCL	2480	--	1880
155-100-07DCB	VACKSTROM, H	--	66	--	5	1956	8.00		1964	H	--	--	9.0	--
155-100-09AAC	BROWN, W	--	15	--	36	1953	11.00		1964	H	--	--	--	--
155-100-09AAD	BROWN, W	--	80	--	4	1920	67.00		1964	S	--	--	--	--
155-100-09CCD	STRANG, S.	--	52	--	6	--	47.77		07/14/1964	--	--	--	--	--
155-100-10BCC	PHERRIN TWSP.	--	220	--	4.75	11/ /1961	--		--	--	--	--	--	1930
155-100-12DAD	SIMLER, L.	--	80	--	4	1914	--		--	H,S	--	--	--	--
155-100-13CCC	GRIMMER, A.	--	26	--	6	--	--		--	H	--	--	--	--
155-100-13DCA	BEARD, J.	--	55	--	4	--	50.00		1964	S	--	--	--	--
155-100-15BAA	STRANG, L	--	97	--	--	1948	80.00		1964	H	--	--	--	--
155-100-17ADC	PHERRIN TWNSP.	--	220	--	4.75	11/ /1961	--		--	--	--	--	--	1880
155-100-17CCD1	RICHMAN, J.	--	20	--	6	1961	17.00		1964	H	--	--	--	--
155-100-17CCD2	RICHMAN, J.	--	20	--	6	1953	17.00		1964	S	--	--	--	--
155-100-18DBB	PHERRIN TWNSP.	--	40	--	4.75	11/ /1961	--		--	H	--	--	--	1900
155-100-19ABC1	LINDVIG, R	--	25	--	4	1963	10.00		1964	H	--	--	6.5	--
155-100-19ABC2	LINDVIG, R.	--	22	--	2	1923	6.00		1964	S	--	--	--	--
155-100-19ABC3	LINDVIG, R.	--	16	--	4	1963	6.00		1964	S	--	--	--	--
155-100-19BAA	NDSWC 10-776	--	158	--	4.75	06/ /1961	--		--	H	--	--	--	1890
155-100-19DDD	PHERRIN TWNSP.	--	170	--	4.75	11/ /1961	--		--	--	--	--	--	1880
155-100-20DDD	NDSWC 9-776	--	262	--	4.75	06/ /1961	--		--	--	--	--	--	1890
155-100-21BCC1	BEARD, J	--	48	--	4	1940	40.00		1964	S	--	--	--	--
155-100-21BCC2	BEARD, J.	--	13	--	1.25	--	11.00		1964	H	--	--	--	--
155-100-21BDD	PHERRIN TWNSP	--	195	--	4.75	11/ /1961	--		--	H	--	--	--	1920
155-100-22BA	BROKAW, D.	--	--	--	--	--		F	--	S	--	--	--	--
155-100-24BAC	PHERRIN TWNSP.	--	60	--	4.75	11/ /1961	--		--	--	--	--	--	2036
155-100-27BDA	BROKAW, D.	210	--	--	4	1948	193.00		1964	H,S	--	--	--	--
155-100-29AA	BEARD, J	--	52	--	4	1905	42.00		1964	U	--	--	--	--
155-100-29BCC1	ROLFSTAD, E	--	66	--	6	1962	29.00		1964	H	--	--	--	--

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155-100-29BCC2	ROLFSTAD, E	--	31	--	36	1917	25.00		1964	H,S	--	--	--	--
155-100-29CCC	SCHOOL DIST N.8	--	60	--	6	1956	20.00		1964	H	--	--	--	--
155-100-29CDD	SHAE, J.W.	--	30	--	6	1958	--		--	H	--	--	--	--
155-100-30CDA	ROLFSTAD, M	--	10	--	36	1963	8.00		1964	S	--	--	--	--
155-100-30DAB	PHERRIN TWNSP.	--	160	--	4.75	11/ /1961	--		--	--	--	--	--	1885
155-100-30DDC	NDSWC 1436	--	28	--	4.75	1958	--		--	H	112GCDF	1560	--	--
155-100-31ABA	NDSWC 8-776	--	168	--	4.75	06/ /1961	--		--	H	--	--	--	1872
155-100-31ADD	LINDAHL, A.	--	44	--	4	--	42.00		1964	H,S	--	--	--	--
155-100-31BBB	NDSWC 1435	--	90	--	4.75	10/ /1958	--		--	--	112GLCL	1590	--	1880
155-100-31DAA	PHERRIN TWNSP	--	200	--	4.75	11/ /1961	--		--	--	--	--	--	1880
155-100-31DAD	HUEBNER, G	--	38	--	4	1961	23.00		1964	H,S	--	--	--	--
155-100-32ADA	NDSWC 6-776	--	74	--	4.75	06/ /1961	--		--	H	--	--	--	1950
155-100-32BAA	NDSWC 7-776	--	294	--	4.75	06/ /1961	--		--	--	--	--	--	1900
155-100-32BCC	LINDAHL, A.	--	54	--	6	1915	32.00		1964	H,S	--	--	--	--
155-100-32CDC	PHERRIN TWNSP	--	150	--	4.75	11/ /1961	--		--	--	--	--	--	1900
155-100-34BAB	USGS	260	248	236	2	10/07/1976	183.55	R	11/10/1976	U	--	--	--	2105
155-101-01BBB	NDSWC 1434	--	63	--	4.75	10/ /1958	--		--	--	--	--	--	1980
155-101-02ADA	ALBERT, M	--	97	--	5	1948	89.00		1959	H	--	--	--	--
155-101-03BB	HONEK, F	--	60	--	--	1959	--		--	H	--	--	--	--
155-101-03BBB1	HONEK, F.	--	60	--	4	1959	25.00		1964	H	--	--	--	--
155-101-03BBB2	HONEK, F.	--	18	--	30	--	14.00		1964	H	--	--	--	--
155-101-03DAA	BOOKE, P. J	--	50	--	5	--	46.00		1964	S	--	--	--	--
155-101-04BBA	HULMES, G	--	52	--	4	1964	41.00		1964	S	--	--	--	--
155-101-04CCA	TENNECO OIL	102	91	86	4	05/31/1979	68.00		05/31/1979	H	125FRUN	1600	9.5	--
155-101-06CCC	WICKS, C. A	--	125	--	14	--	50.41		07/21/1965	--	--	3400	9.0	--
155-101-07BBC	JENSON, RICHARD	120	120	95	5	12/27/1981	33.00		12/27/1981	H	--	--	--	--
155-101-09BC	RIEDER, R. J	--	--	--	--	--		F	--	S	--	--	--	--
155-101-10ACA	RIEDER, R. A	--	60	--	4	1928	40.00		1964	H,S	--	--	--	--
155-101-10BCC	FRANKE, G.	--	111	--	4	1944	107.00		1964	H,S	--	--	--	--
155-101-11DDB	LUKENBILL, W	--	118	--	4	1944	111.00		1964	H,S	--	--	--	--
155-101-13ABB	NDSWC 11-776	--	63	--	4.75	06/ /1961	--		--	--	--	--	--	1940
155-101-14ADD	LUKENBILL, W	--	60	--	5	1929	20.00		1959	--	--	--	--	--
155-101-15ADD	GOULD, GARY	175	175	160	4.50	04/15/1978	135.00		04/15/1978	S	--	810	10.0	--
155-101-15DBD1	DUNN, RICHARD	79	79	69	4.50	09/30/1978	45.00		09/30/1978	H	--	--	--	--
155-101-15DBD2	DUNN, RICHARD	78	78	72	4.50	08/27/1979	41.00		08/27/1979	H	--	1670	11.5	--
155-101-16CCB	SLOVATSKY, MILTON	157	157	147	4.50	03/28/1980	137.00		03/28/1980	H	--	2150	10.0	--
155-101-17BAC	ANDERSON, A	--	140	--	24	1928	110.00		1964	U	--	--	--	--
155-101-18AAA	BOOKE, P. J	--	100	--	18	--	--		--	S	--	--	--	--
155-101-18ABA	POE, L. M	--	128	--	4	1953	70.00		1964	H,S	--	--	--	--
155-101-18BBB	POE, L. M	--	25	--	--	--	20.00		1964	U	--	--	--	4-

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155-101-19DAD	ANDERSON, A.	--	40	--	24	1928	30.00		1964	H,S	--	--	--	--
155-101-20AAA	BOOK, CHARLES	198	198	192	6.50	03/01/1977	172.00		03/01/1977	H,S	--	--	--	--
155-101-20ACA	BODKE, O. C	--	175	--	6	1951	165.00		1964	H,S	--	--	--	--
155-101-20BBC	BODKE, O. C	--	129	--	4	1956	--		--	H	125FRUN	--	--	--
155-101-21DDB	LUKENBILL, W.	--	58	--	24	--	54.62		07/22/1964	U	--	--	--	--
155-101-22CCA	NDSWC 31-776	--	84	--	4.75	08/ /1961	--		--	--	--	--	--	2120
155-101-22DDA	JOHNSON, N.	--	137	--	4	1964	107.00		1964	S	--	--	--	--
155-101-23BBB	JOHNSON, N	--	45	--	6	1940	32.00		1964	H,S	--	--	--	--
155-101-24CDC	SMITH, K.	--	--	--	4	--	22.54		05/12/1964	--	--	--	--	--
155-101-24DDD	WINTERS, L.	--	72	--	--	--	--		--	--	112GCDF	1510	--	--
155-101-25CBB	OYLOE, V.	--	85	--	5	--	60.00		1964	H	--	--	--	--
155-101-26ADD	HERMANSON, M	--	115	--	4	1952	103.00		1964	H	--	--	--	--
155-101-26DAA	HEEN, K. I	--	125	--	4	--	100.00		1964	S	--	--	--	--
155-101-28DDD	STRAND, IRVING	94	93	88	5	06/11/1980	73.00		06/11/1980	S	--	--	--	--
155-101-32AAB	ROCKET	240	240	200	4.50	07/29/1980	186.00		07/29/1980	U	--	--	--	--
155-101-35CCC	CHERREY, A	--	97	--	6	1948	82.00		1964	H,S	--	--	--	--
155-101-35DCC	HEEN, K	--	60	--	4	1956	48.00		1964	H,S	--	--	--	--
155-101-36BBD	ANDREA, R	--	16	--	4	1953	6.00		1959	H,S	--	--	--	--
155-101-36BCC	LAKE PARK	--	1	--	--	--		F	--	--	--	1230	--	--
155-101-36DAC	NDSWC 33-776	--	136	--	4.75	08/ /1961	--		--	--	--	--	--	1885
155-102-05DDC	JORGENSON, GLEN	71	71	--	4	05/15/1973	50.00		05/15/1973	S	--	1200	14.0	--
155-102-06CCA	HANSON, H. J	--	120	--	4	--	100.00		1965	S	--	3250	--	--
155-102-07DCC	JORGENSON, H	--	110	--	6	1907	94.00		1965	S	--	--	--	--
155-102-08BBB	HANSON, H.	--	50	--	24	--	35.00		1965	S	--	640	--	--
155-102-08DDA	JORGENSON, E. H	--	52	--	4	1953	20.00		1965	H	125FRUN	1090	--	--
155-102-08DDB	JORGENSON, E. H	--	30	--	3.50	1950	12.00		1965	S	--	--	--	--
155-102-10CBC	BARKIE, JOE	178	--	--	--	11/03/1977		D	--	--	--	--	--	--
155-102-17ADD1	JORGENSON, H. J	--	100	--	4	1948	84.00		1965	H,S	--	1750	--	--
155-102-17ADD2	JORGENSON, HJALMAR	89	89	--	4	08/15/1973	40.00		08/15/1973	H	--	2050	10.0	--
155-102-20BCA	LARSEN, L.	--	20	--	4	--	18.00		1964	H	--	--	--	--
155-102-20BCD	NODLER, GARY R	140	115	105	4	04/21/1981	--		--	H	--	3880	9.5	--
155-102-26ABB	NORDTUG, J.	--	18	--	8	--	14.00		1965	H,S	--	1000	--	--
155-102-28BBB	SHAFFER, H. L	--	90	--	6	1949	--		--	H	--	--	--	--
155-102-29DDD	JOHNSON, E. A	--	137	--	18	1928	100.00		1965	S	--	3400	9.0	--
155-102-32CCC	OLSON, E.	--	40	--	24	--	20.00		1965	H,S	125FRUN	3590	8.5	--
155-103-01DDD	HANSON, A.	--	100	--	--	--	--		--	H,S	--	--	--	--
155-103-06DDC1	KNUTSON, O.	--	24	--	--	1910	--		--	H	--	--	--	--
155-103-06DDC2	KNUTSON, O.	--	200	--	6	1954	--		--	S	--	--	--	--
155-103-08ADD	NDSWC	--	40	--	4.75	09/ /1965	--		--	--	--	--	--	2341
155-103-08CCC	ROCKSTAD, N.	--	75	--	--	1958	60.00		1964	H,S	--	--	--	--

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155-103-09CCC	LEE, O.	--	100	--	--	--	--		--	S	--	--	--	--
155-103-14AAA	ARNSON, P	--	50	--	4	1954	27.00		1965	H,S	--	--	--	--
155-103-14BDD	LEE, A.	--	--	--	--	--		F	--	S	--	--	--	--
155-103-15BBB	LEE, O.	--	90	--	--	1963	--		--	H,S	--	--	--	--
155-103-25CDD	HOLLAND, L	--	65	--	6	1943	23.00		1964	H,S	--	--	--	--
155-103-30CAA	JACOBSON, C	--	80	--	4	1963	55.00		1964	H	--	--	--	--
155-103-30CAB	MOROB, CLINTON C	231	231	221	4.50	10/03/1977	117.00		10/03/1977	S	--	2080	10.0	--
155-103-32DDD	ANSETH, E	--	175	--	6	1922	135.00		1964	S	--	--	--	--
155-103-33CBB	NDSWC	--	120	--	4.75	09/ /1965	--		--	--	--	--	--	2321
155-104-02AAD	SULSKY, E.	--	113	--	4	1960	--		--	H,S	--	--	8.5	--
155-104-11ACC	LEMAY, F.	--	--	--	--	--		F	--	H,S	--	--	6.5	--
156-100-02CCC	JACKMAN, R.	--	110	--	4	1962	90.00		1964	S	--	--	--	--
156-100-02DCD	LUND, V.	--	200	--	4	1961	--		--	S	--	--	--	--
156-100-07ABB	DANIEL, C.	--	23	--	1.25	--	19.00		1964	H	--	--	--	--
156-100-07CCC1	KEEF, G.	--	20	--	18	1962	11.00		1964	H	--	--	--	--
156-100-07CCC2	TEST HOLE 1439	--	52	--	4.75	10/ /1958	--		--	--	111ALVM	1960	8.5	1905
156-100-09BAA1	JACKSON, R.	--	20	--	4	1964	7.98		07/10/1964	U	--	--	--	--
156-100-09BAA2	JACKSON, R.	--	125	--	--	--	50.00		1964	H	--	--	--	--
156-100-09CCB	ZENK EST.	--	50	--	48	1910	30.00		1964	H	--	--	--	--
156-100-17AAB	NDSWC 1438	--	63	--	4.75	10/ /1958	--		--	H	--	--	--	1925
156-100-18AAA	NDSWC 14-776	--	210	--	4.75	06/ /1961	--		--	H	--	--	--	1918
156-100-18BBB	TEST HOLE	--	231	--	1.25	07/ /1964		F	--	H	--	--	--	1900
156-100-19DAA	NDSWC 13-776	--	231	--	4.75	06/ /1961	--		--	H	--	--	--	1940
156-100-20BCA	PANKOWSKI, H.	--	35	--	66	--	--		--	H	--	--	7.0	--
156-100-20BCC	PANKOWSKI, H	--	85	--	5	1963	40.00		1964	S	--	--	7.0	--
156-100-29AAD	ARNT, N.	--	20	--	36	1950	17.00		1964	U	--	--	--	--
156-100-30CBA1	CARTIER, E	--	207	--	4	1948	1.80		07/14/1964	S	--	--	10.0	--
156-100-30CBA2	CARTIER, E	--	19	--	36	1943	9.00		1964	U	--	--	--	--
156-100-31CAD	CHRISTIANSON, A & G	--	225	--	4	--		F	--	U	--	--	10.0	--
156-100-32AAA	NDSWC 12-776	--	210	--	4.75	06/ /1961	--		--	H	--	--	--	1918
156-100-33CAA	METZGER EST.	--	11	--	36	--	7.00		1964	H	--	--	--	--
156-100-33CCC	NDSWC 1433	--	63	--	4.75	10/ /1958	--		--	T	111ALVM	1620	6.5	1900
156-100-33CDB	METZGER EST.	--	--	--	--	--		F	--	S,I	--	--	--	--
156-100-35DAA1	SMITH, H	--	35	--	--	1965	--		--	H	--	--	--	--
156-100-35DAA2	SMITH, M.	--	235	--	4	1965	205.00		1965	H	125FRUN	1480	--	--
156-100-35DDA	SMITH, M.	--	225	--	6	1918	210.00		1964	H	--	--	--	--
156-101-02AAA	NDSWC 15-776	--	241	--	4.75	06/ /1961	--		--	--	--	--	--	1926
156-101-04CDD	JOHNSON, E.	--	38	--	7	1956		F	--	H,S	--	2020	8.0	--
156-101-09DAB	ORTH, C.	--	--	--	--	--		F	--	H	--	--	--	--
156-101-10D	CLAY, W.	--	--	--	--	--		F	--	S	--	--	--	--

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156-103-09BBB	NDSWC	--	60	--	4.75	09/ /1965	--	--	H	--	--	--	2409
156-103-12CCB	ALLICK, S	--	10	--	--	1964	5.00	1964	H	--	--	--	--
156-103-12CCC	ALLICK, S	--	80	--	--	1924	30.00	1964	U	--	--	--	--
156-103-15DDA	SUTTON, A.	--	34	--	24	1925	22.00	1964	S	--	--	--	--
156-103-16CCC	NDSWC	--	40	--	4.75	09/ /1965	--	--	--	--	--	--	2381
156-103-24AAB	FARMS, KALIL	68	68	62	4.50	04/23/1978	--	--	H	125FRUN	3500	10.0	--
156-103-24BBA	KALIL, M.	--	60	--	18	--	59.00	1964	S	--	--	--	--
156-103-27DCC	AUSTREIN, M.	--	70	--	--	1944	40.00	1964	U	--	--	--	--
156-103-31AAB	MILLER, C	--	180	--	6	1950	150.60	05/25/1966	H,S	125FRUN	1250	8.0	--
156-103-32ADD	NDSWC	--	40	--	4.75	09/ /1965	--	--	--	--	--	--	2372
156-104-12ADD	SUNDET, I.	--	84	--	1.25	--	40.00	1964	H,S	--	--	--	--
157-099-06CBB	WESTERSU, A.	--	200	--	5	1917	--	--	U	--	--	--	--
157-099-19BCC	VALLEVIK, OSMUND	--	150	--	4	1961	70.00	1961	H,S	--	--	--	--
157-099-19DCD	NDSWC 17-776	--	126	--	4.75	06/ /1961	--	--	--	--	--	--	2066
157-099-21BBB	FAY, C	--	145	--	3.75	1930	111.00	1963	H,S	--	2160	--	--
157-100-03ABA	THORSTAD, H	--	130	--	4	1941	100.00	1941	H	--	--	--	--
157-100-07DAD	BERG, L.	--	175	--	5	1962	--	--	H,S	--	--	--	--
157-100-09AAC	NDSWC 35-776	--	241	--	4.75	08/ /1961	--	--	--	--	--	--	1935
157-100-12AUD	LUND, V.	--	350	--	4	1960	--	--	H,S	--	--	--	--
157-100-13BCA	LARSON, C.	--	170	--	5	--	--	--	H,S	--	--	--	--
157-100-14DAC	COONLEY, A.	--	159	--	4	--	155.00	08/06/1963	U	--	--	--	--
157-100-15AB	DULLUM, PAULINE	--	40	--	4	1958	30.00	1958	S	--	--	--	--
157-100-15BDD	NDSWC 19-776	--	76	--	4.75	07/ /1961	--	--	--	--	--	--	1940
157-100-15DCC	FAY, A.	--	20	--	--	--	--	--	H	--	--	--	--
157-100-17DCD	HAMANN, G.	--	14	--	--	--	--	--	H	--	--	--	--
157-100-21ABA	DULLUM, DONALD	--	60	--	4	1947	--	--	S	--	--	--	--
157-100-22CCC	NDSWC 16-776	--	315	--	4.75	06/ /1961	--	--	--	--	--	--	1943
157-100-30DCC	SYLTE, EDWIN	--	190	--	4	1925	--	--	U	--	--	--	--
157-100-33CAD	NDSWC 18-776	--	231	--	4.75	07/ /1961	--	--	--	--	--	--	1907
157-101-04CAA	WOLVERTON, RAYMOND	--	76	--	4	--	55.00	1963	S	--	--	--	--
157-101-06BBC	BREVIK, GLEN	--	50	--	4	1960	28.00	1960	H,S	125FRUN	--	--	--
157-101-17BCB	BREEZLEY, JACK	--	31	--	36	--	21.00	08/05/1963	U	--	--	--	--
157-101-20CCB	BERG, RAYMOND	--	120	--	24	1940	90.00	1963	H,S	--	--	--	--
157-101-23ADD	NDSWC	--	80	--	4.75	05/ /1966	--	--	--	--	--	--	1980
157-101-30CCD	HEGGE, REUBEN	--	165	--	5	--	117.00	08/05/1963	U	--	--	--	--
157-102-01AAD	HOUGHT, D	--	104	--	4	1946	--	--	H,S	--	--	--	--
157-102-02CCB	GROTH, H.	--	148	--	6	--	--	--	H	--	--	--	--
157-102-03CCC	PASTERNAK, M.	--	145	--	4.50	--	--	--	U	--	--	--	--
157-102-04ABC	ANDRE, B.	--	160	--	5	--	--	--	H,S	--	--	--	--
157-102-09AUC	KUSTAD FARM	--	145	--	6	1943	--	--	H,S	--	--	--	--

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157-102-13DCD	SCHMIDT, L	--	144	--	6	--	110.00	1963	H,S	--	--	--	--
157-102-14CCD	HEGGE, J	--	180	--	4	--	150.00	1963	H	--	--	--	--
157-102-17AAA	ANDERSON, O	--	48	--	5	--	20.00	1963	H,S	--	--	--	--
157-102-25ADD	ANDERSON, M	--	180	--	4.50	1922	160.00	1963	U	--	--	--	--
157-102-30ABB1	HINSVERK, WALDO	145	145	--	4	09/04/1975	115.00	09/04/1975	S	--	3300	8.5	--
157-102-30ABB2	HINSVERK, W	--	65	--	24	--	15.00	1963	S	--	--	--	--
157-102-32AAA	BERG, R	--	136	--	4	1957	120.00	1963	H,S	--	--	--	--
157-102-32AAB	BERG, DUANE	204	--	--	--	06/20/1976	D	--	U	--	--	--	--
157-102-33BBC	BERG, MIKE	128	128	118	4.50	06/16/1979	47.00	06/16/1979	S	125FRUN	4150	7.5	--
157-103-02AAA	NDSWC	--	40	--	4.75	09/ /1965	--	--	--	--	--	--	--
157-103-03CBB	SWANSON, J	--	48	--	36	--	12.00	1963	S	--	--	--	--
157-103-03DAD	HAUG, MARTIN	--	123	--	8	1946	--	--	S	--	--	--	--
157-103-05ADD	SANDA EST	--	100	--	18	1930	82.00	1965	H,S	--	2700	--	--
157-103-12DDC1	RUSTAD, HELEN	157	157	150	5	09/25/1981	--	--	H	--	1020	8.0	--
157-103-12DDC2	RUSTAD FARM	--	72	--	4	--	28.00	1963	H,S	112GCDF	1170	7.0	--
157-103-13DDC	STORSETH, S	--	50	--	12	--	47.00	1963	H,S	--	--	--	--
157-103-25AAA	LARSON, GERALD	100	--	--	--	11/07/1980	--	--	--	--	--	--	--
157-103-25AAD	NDSWC	--	160	--	4.75	09/ /1965	--	--	--	--	--	--	2462
157-103-25BBB	STRAND, ARCHIE	--	93	--	4	1912	15.00	1963	H,S	--	--	--	--
157-103-29DCD	ARNSON, ORLANDO	--	24	--	24	1942	10.00	1963	U	--	--	--	--
157-103-26DAA	NDSWC	--	120	--	4.75	09/ /1965	--	--	--	--	--	--	2420
157-103-26DCD	FULSTAD, O.L.	--	140	--	5	--	--	--	S	--	--	--	--
157-103-27DAB	HUFF, HAHAL	186	186	177	4	08/10/1977	140.00	08/10/1977	H	125FRUN	2280	10.0	--
157-103-29BBC	SVEET, ANDREW	--	116	--	5	1952	--	--	H	--	--	--	--
157-103-29CDA	SVEET, PETER	--	45	--	12	1941	30.00	07/26/1963	U	--	--	--	--
157-103-34BAB	GRIMSTVEDT, H.	--	240	--	5	--	--	--	H,S	--	--	--	--
157-103-35DAB	SEVEN, JACKK	--	24	--	36	--	8.00	1963	H	--	--	--	--
158-099-16CDD	HUGELAND, FLOYD	--	85	--	4	1955	80.00	1965	H,S	--	2110	--	--
158-099-16CCC	SKARRE, J	--	180	--	4	--	120.00	1963	H	--	--	--	--
158-099-20CDC	OPSAL, A.	--	150	--	3	--	--	--	H	--	--	--	--
158-100-08DAA1	NDSWC 0008	189	160	147	1.25	05/10/1966	21.83	01/27/1970	U	112LLMD	2160	8.0	1998
158-100-08DAA2	NDSWC 0008A	94	80	68	4	05/10/1966	21.97	06/21/1966	U	112KAY	2340	--	1998
158-100-13CDD	KRABSETH, J.	--	146	--	2	1911	--	--	U	--	--	--	--
158-100-14CDC	JOHNSON, HILDA	--	160	--	4	1962	148.00	1963	H,S	--	--	--	--
158-100-17ABB	HELGESON, N.	--	110	--	1.25	05/ /1966	16.72	07/05/1966	--	112GLCL	2250	--	1983
158-100-17ABC1	HELGESON, NORMAN	--	67	--	1.25	04/ /1966	26.95	07/05/1966	--	--	2630	--	--
158-100-17ABC2	HELGESON, N.	--	80	--	1.25	05/ /1966	--	--	--	112GCDF	2700	--	--
158-100-17ABC3	HELGESON, N.	--	--	--	4	07/05/1966	23.35	07/05/1966	--	--	--	--	--
158-100-17ABD	HELGESON, N	--	70	--	1.25	05/ /1966	24.25	07/05/1966	--	--	--	--	1993
158-100-17ADA	HELGESON, N.	--	45	--	1.25	05/09/1966	19.44	07/05/1966	U	112LLMD	1970	8.5	1987

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156-101-11BCB	CLAY, W.	--	100	--	6	--	--		--	U	--	--	--	--
156-101-15CBB	HARSTAD, M	--	265	--	4	1963	215.00		1964	S	--	--	--	--
156-101-18BBC	NDSWC 30-776	--	152	--	4.75	08/ /1961	--		--	--	--	--	--	2050
156-101-19AAA1	PALMER, E.	--	18	--	24	--	15.00		1964	H	--	--	--	--
156-101-19AAA3	PALMER, E.	--	34	--	4	1955	14.00		1964	H	--	--	--	--
156-101-20CCD	NASNER, M.	--	--	--	--	--		F	--	S	--	--	--	--
156-101-23AAA	MULINE, J	--	95	--	--	1962	55.00		1964	S	--	--	--	--
156-101-23BBC	HARSTAD, M	--	90	--	4	1962	3.00		1964	S	--	--	--	--
156-101-24CBB	JOHNSON, E	--	85	--	4	1949	45.00		1964	H,S	--	--	--	--
156-101-25AAC	CARTIER, E.	--	81	--	5	1948	26.00		1964	H	--	--	--	--
156-101-25AUD1	CARTIER, E.	--	77	--	5	--	37.00		1964	S	--	--	--	--
156-101-25AUD2	CARTIER, ELVA	79	76	58	4.50	04/30/1980	41.00		04/30/1980	H	125FRUN	600	11.5	--
156-101-26DDD	MULINE, L	--	60	--	4	1959	40.00		1964	H,S	--	--	--	--
156-101-28DBB	SEIDEL, E	--	12	--	36	1963	8.00		1964	H,S	--	--	--	--
156-101-29AD	NASNER, E.	--	--	--	--	--		F	--	S	--	--	--	--
156-101-29CDA	NASNER, E	--	16	--	48	1904	12.00		1964	H,S	--	--	6.5	--
156-101-34CC	NASNER, A.	--	--	--	--	--		F	--	H,S	--	--	8.0	--
156-101-34CCC	NASNER, A.	--	73	--	24	--	53.00		1961	U	--	--	--	--
156-101-35BA	HULMES, G.	--	--	--	--	--		F	--	H,S	--	--	--	--
156-101-36BCB	ANDRE, R	--	17	--	1.50	1954	12.00		1964	S	--	--	--	--
156-102-08DAA	MISCHKE, L.	--	54	--	4	1956	24.00		1964	S	125FRUN	5430	7.0	--
156-102-08DAC1	MISCHKE, L	--	127	--	4	1963	37.00		1964	H	--	3050	7.0	--
156-102-08DAC2	MISCHKE, LAWRENCE	108	108	96	4.25	02/12/1973	30.00		02/12/1973	H	--	2530	10.0	--
156-102-08DAC3	MISCHKE, LAWRENCE	104	--	--	--	06/15/1973	--		--	--	--	--	--	--
156-102-08DAD	MISCHKE, LAWRENCE	103	103	--	4	08/01/1973	14.00		08/01/1973	H	--	2530	10.0	--
156-102-09BCB	MISCHKE, H	--	65	--	4	1957	25.00		1964	H,S	--	--	--	--
156-102-10BCC	HALVORSON, G	--	20	--	6	1959		F	--	H,S	--	--	8.0	--
156-102-10DDC	JOHSTAD, RICHARD	86	86	82	4.50	08/15/1977	55.00		08/15/1977	H	--	2580	9.5	--
156-102-13BAA	COLLINS, C.	--	12	--	--	1944	10.00		1964	S	--	--	--	--
156-102-14ADA	BERGEN, H.	--	180	--	4	1961	40.00		1964	H,S	--	--	--	--
156-102-17AAD1	BARKIE, M.	--	18	--	36	--	8.00		1964	U	--	--	--	--
156-102-17AAD2	BARKIE, M.	--	67	--	4	--	53.00		1964	H	--	--	--	--
156-102-20DAD	OWEN, A.	--	98	--	4	--	70.00		1964	S	--	--	--	--
156-102-25CCD	HIGLEY, A.	--	24	--	4	--	--		--	H	--	--	--	--
156-102-32BAA	HAMSTAD, O.	--	203	--	4	1964	70.00		1964	H,S	--	--	--	--
156-103-03CDD	YEOSTIE, J	--	150	--	6	1918	85.00		1964	H,S	--	--	--	--
156-103-05BBB	HUNNING, A.	--	180	--	--	1909	--		--	H,S	--	--	--	--
156-103-05DAA	SANDA, C.	--	70	--	1.25	--	--		--	H	--	--	--	--
156-103-06DDD	AUGEDAHL, A	--	130	--	4	1911	120.00		1964	H,S	--	--	--	--
156-103-07BDD	BAKKUM, L.	--	230	--	4	1962	--		--	H	--	--	--	--

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158-100-19CCC	NDSWC 1442	--	84	--	4.75	11/ /1958	--	--	--	112GCDF			
158-100-20AAB	SMITH, L	--	96	--	4	1962	76.00	1966	H	112GCDF	1730	7.0	--
158-100-21DDC	EIDSVOOG, H.	--	165	--	3.50	1945	95.00	1963	H,S	--	1880	--	--
158-100-26ACA	QUIE, LESTER	--	287	--	4	1944	180.00	1963	H	--	--	--	--
158-100-29BUB	ANDERSON, MINNIE	--	12	--	24	--	5.52	06/18/1959	U	--	--	--	--
158-100-30DDA	NDSWC 20-776	--	315	--	4.75	07/ /1961	--	--	--	--	--	--	1935
158-100-31ABC	BERG, LLOYD	--	14	--	--	1959	--	--	H	--	--	--	--
158-100-33ABB	GAFKJEN, H	--	160	--	4	1942	--	--	H,S	--	--	--	--
158-100-34BDC	WALSTAD, T	--	130	--	5	1915	70.00	1963	H,S	--	--	--	--
158-100-35DAC	RYEN, CLIFFORD	--	350	--	2	1923	--	--	H,S	--	--	--	--
158-101-02BCB	GREV, HENRY	--	116	--	4	1957	16.00	1957	H,S	125FRUN	1970	--	--
158-101-02BCC	GREV, HENRY	--	75	--	24	--	38.75	08/16/1948	H,S	--	--	--	2041
158-101-02CDC	GLIMM, FRANKLIN	90	85	60	4	11/14/1980	F	--	S	--	2800	10.0	--
158-101-02DAD	GLIMM, FRANKLIN	225	225	212	4	10/30/1974	20.00	10/30/1974	H,S	--	2300	9.0	--
158-101-04ADA	KINGSTAD, SEVERT	--	130	--	6	1957	70.00	1963	H,S	--	--	--	--
158-101-04BDA	INGWALL, L	--	180	--	6	--	156.00	1948	H,S	--	--	--	--
158-101-05BBB1	RUSTAD, O.	--	190	--	6	--	145.00	1948	U	--	--	--	2195
158-101-05BBB2	RUSTAD, O.	--	90	--	6	--	82.00	1948	H,S	--	--	--	--
158-101-10AAC	MAGNUS	--	50	--	6	--	--	--	H	--	--	--	--
158-101-11ADD1	BOURRETT, BENNIE	46	46	--	4	08/01/1976	--	--	H,S	--	1310	10.0	--
158-101-11ADD2	BOURRETT, & SONS	--	48	--	24	--	--	--	H,S	--	--	--	--
158-101-19CCC	HAUGEN, TED	176	176	170	4.50	07/10/1978	131.00	07/10/1978	S	125FRUN	3000	9.0	--
158-101-22ABB	WERNER W	--	365	--	3	1921	165.00	1963	H	--	--	--	--
158-101-23AAA	BOURRETT, & SONS	--	16	--	36	--	14.00	1963	U	--	--	--	--
158-101-23DDD	AMSBAUGH, MABEL	--	60	--	4	--	40.00	1959	H,S	--	--	--	--
158-101-24ABD	GUNLIKSON, ROGER	120	99	79	8	03/13/1980	20.00	03/13/1980	I	--	2150	9.5	--
158-101-24ADB	GLIMM, FRANKLIN	29	29	19	4	06/04/1976	14.00	06/04/1976	S	--	--	--	--
158-101-24BDB	BERG, LLOYD	100	--	--	--	04/25/1981	--	--	--	--	--	--	--
158-101-24DCA	GLIMM, FRANKLIN	101	101	81	12	07/29/1981	21.00	07/29/1981	I	--	2210	9.0	--
158-101-24DCC	NDSWC 1441	--	63	--	4.75	--	--	--	--	--	--	--	--
158-102-05BCB	KNUTSON, CARL	--	15	--	36	--	11.00	07/29/1963	H,S	--	--	--	--
158-102-08BAA	KROGEN, ARNE	--	90	--	24	1929	--	--	S	--	--	--	--
158-102-08CDD	OSTER, REYNOLDS	--	120	--	24	1959	100.00	1963	H,S	--	--	--	--
158-102-09BBC	HAUGEN, GEORGE	--	313	--	3	1949	240.00	1963	H,S	--	--	--	--
158-102-13AAA	MOOREHEAD, R.	--	160	--	5	--	--	--	H,S	--	--	--	--
158-102-17DDA	SEVEN, LEO	--	30	--	24	1930	14.00	1963	H,S	112GCDF	--	--	--
158-102-20BBD	RASSIER, L	--	200	--	4	1953	50.00	1963	S	--	--	--	--
158-102-23DAA1	MULLER, ALPHONSE	--	59	--	24	1942	45.00	1963	H,S	--	--	--	--
158-102-23DAA2	MULLER, JEROME	245	245	236	4	08/13/1977	175.00	08/13/1977	H	--	1560	8.0	--
158-102-24DCC	RASSIER, PHILLIP	--	80	--	6	1958	60.00	1958	H	--	--	--	--

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158-102-28AAB	ANDERSON, O	--	80	--	24	--	60.00		1963	H	--	--	--	--
158-102-28ABA	ANDERSON, O	--	240	--	6	1960	200.00		1963	I	125FRUN	2930	9.0	--
158-102-28BBC	ANDRE, NICK	--	41	--	16	--	6.00		07/30/1963	U	--	--	--	--
158-102-29BBD	HANDTE, H	--	180	--	5	1958	150.00		1963	S	--	--	--	--
158-102-30AUC	KUEFFLER, N	--	110	--	3	1944	58.00		1963	S	125FRUN	1470	6.5	--
158-102-31CUC	VIG, E	--	120	--	6	1915	--		--	--	--	--	--	--
158-102-32DDD	PASTERNAK EST.	--	160	--	6	--	--		--	H,S	--	--	--	--
158-103-01CBC	NDSWC	--	25	--	1.25	09/ /1965	6.27		10/08/1965	--	112GCDF	1230	6.5	2100
158-103-04CAD	WILLIAMS, RWA	80	72	62	1.25	11/24/1980	12.00		11/24/1980	U	--	730	--	--
158-103-10AAB	FOLVAG, ELMER	205	205	125	4.50	05/22/1979	63.00		05/22/1979	S	125FRUN	1860	9.5	--
158-103-11BBC	FALVAG, EMMER	--	330	--	4	1956	--		--	S	--	--	--	--
158-103-12AC	THOME, D	--	40	--	24	1961	32.00		1963	S	--	--	--	--
158-103-13BBB	CLEMENTSON, L	--	104	--	18	--	50.00		1963	H,S	--	--	--	--
158-103-14AAA	NDSWC	--	80	--	4.75	09/ /1965	--		--	--	--	--	--	2245
158-103-20AAA	MULLER, A	--	40	--	--	1957		F	--	U	--	--	--	--
158-103-24BDB	ANDRE, ALVIN	--	50	--	6	1953	--		--	H,S	--	--	--	--
158-103-25BBC	NDSWC	--	80	--	4.75	09/ /1965	--		--	--	--	--	--	2205
158-103-33CDB	SWANSON, THOMAS L	72	72	64	4	06/21/1979	20.00		06/21/1979	H,S	125FRUN	3800	8.5	--
158-103-33CDC	SWANSON, MAURICE	--	60	--	6	1947	--		--	S	--	--	--	--
159-099-09DBC	UTTESON, M	--	165	--	6	--	40.00		1948	H,S	--	--	--	--
159-099-19ADD	KEMMER, C.	--	180	--	5	--	--		--	S	--	--	--	--
159-099-29AAA	TEST HOLE 1518	--	115	--	4.75	05/ /1959	--		--	--	--	--	--	--
159-099-30DDD	TEST HOLE	--	63	--	4.75	06/ /1965	--		--	--	--	--	--	2180
159-099-31ABC	TUEDT, ALMA	--	118	--	3	1945	90.00		1963	S	--	--	--	--
159-100-01ABD	HOLM, W	--	50	--	4	1959	--		--	H,S	--	--	--	--
159-100-01CBB	TEST HOLE	--	330	--	4.75	05/ /1966	--		--	--	--	--	--	2030
159-100-02ADD	HOLM JR, OLIVER	--	370	--	4	1955		F	1963	U	--	--	--	--
159-100-03CBC	KNUDSULG, HENRY	--	19	--	5	1948	19.00		1959	H,S	--	--	--	--
159-100-05AAA	TEST HOLE 1522	--	168	--	4.75	05/ /1959	--		--	--	--	--	--	2000
159-100-06AAC	JORSTAD, A	--	59	--	5	--	51.10		07/28/1963	U	--	--	--	--
159-100-10BBB	TEST HOLE	--	200	--	4.75	06/ /1964	--		--	--	--	--	--	2040
159-100-13CCC	BERVE, ARNOLD	--	82	--	5	1933	62.00		1948	U	--	--	--	--
159-100-15BBC	WILLIAMS, HENRY	--	96	--	5.50	1923	66.00		1959	H,S	--	--	--	--
159-100-15CCC	ESTERBY, K	--	61	--	18	1912	50.00		1959	H,S	--	--	--	--
159-100-15DCA	BIBLER, R.	--	25	--	36	--	15.00		1948	U	--	--	--	--
159-100-16BBB	TEST HOLE 1521	--	94	--	4.75	05/ /1959	--		--	--	--	--	--	2040
159-100-18BBC	UYEN, N	--	45	--	6	--	35.00		1948	H,S	--	--	--	2030
159-100-21AAA	KNUTSON, ALBERT	--	85	--	4	1953	55.00		1963	U	--	--	--	--
159-100-21DCD	ESTERBY, REUBEN	--	30	--	24	1944	12.00		1959	S	--	--	--	--
159-100-23AAA	TEST HOLE	--	378	--	4.75	06/ /1965	--		--	--	--	--	--	2060

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159-100-23ADA	RAMSFIELD, LEROY	--	78	--	3	1948	58.24		08/20/1948	H,S	--	--	--	--
159-100-23CAA	HOLM, W	--	40	--	4	1959	--		--	H	--	--	--	--
159-100-24BAA	BERVE, ARNOLD	--	162	--	5	1916	90.00		1963	S	--	--	--	--
159-100-25CBC	JOHNSON, E	--	80	--	3	--	--		--	H,S	--	--	--	--
159-100-27ACB	G. NORTHERN RR	--	30	--	--	--	23.00		1959	P	112GCDF	855	8.5	--
159-100-28ADD	NDSWC 3085	375	100	90	1.25	10/22/1963	21.59		11/12/1963	U	112LLMD	2430	--	2000
159-100-28BBC	TEST HOLE 1516	--	105	--	4.75	05/ /1959	--		--	--	--	--	--	2020
159-100-28BCC	MOBIL OIL CO	--	45	--	6	1957	35.00		1959	H	--	--	--	--
159-100-28DAD	PISKE, W.	--	31	--	6	--	26.00		1963	H	--	--	--	--
159-100-29ADD	NDSWC 26-776	--	379	--	4.75	08/ /1961	--		--	--	--	--	--	1980
159-100-30ABD	ESTERBY, A	--	11	--	--	--	--		--	H	--	--	--	--
159-100-31ADD	NDSWC 34-776	--	158	--	4.75	08/ /1961	--		--	--	--	--	--	2010
159-100-32AAB	SMITH, WILBUR	--	31	--	4	1942	20.00		1959	H	--	--	--	--
159-100-33DAA	JOHNSON, M	--	15	--	--	--	10.95		06/16/1959	U	--	--	--	--
159-100-34BAC	JOHNSON, M	--	15	--	--	--	--		--	S	--	--	--	--
159-100-35CCC	DULLUM, R	--	65	--	5	--	60.00		1963	H,S	--	--	--	--
159-101-01AAC	USBR AH-20	--	44	--	--	12/ /1946	14.00		1946	--	--	--	--	2088
159-101-02CCA	CHRISTIANSON, C	--	85	--	24	--	45.00		1948	S	--	--	--	--
159-101-02DDD	OLSON, E	--	25	--	1	1955	--		--	H	--	--	--	--
159-101-03CDD	CHRISTIANSON, G	--	90	--	24	--		F	1963	H,S	--	--	14.9	--
159-101-06CCC	SCHULTZ, F	--	59	--	24	--	36.31		08/13/1948	H	--	--	--	--
159-101-07DAB	USBR AH-2	--	42	--	--	1946	6.00		1946	--	--	--	--	2088
159-101-09CAC	OLSON, CLARENCE	--	80	--	5	1922	--		--	S	--	--	--	--
159-101-10ACA	GILL, N	--	44	--	4	--	33.48		08/13/1948	U	--	--	--	2100
159-101-10CCC	OLSON, M	--	100	--	3	--	--		--	U	--	--	--	--
159-101-11AAA	OLSON, E.	--	12	--	36	--	6.00		1948	H,S	--	--	--	2040
159-101-11DCD	USBR AH-17	--	40	--	--	1946	--		--	--	--	--	--	2084
159-101-12DAD	ANFINSON, B	--	100	--	6	--	--		--	H,S	--	--	--	--
159-101-14BCD	PAULSON, R	--	118	--	4	--	115.68		08/13/1948	U	--	--	--	2150
159-101-18AAD	NELSON, K	--	40	--	24	--	30.00		1963	S	--	--	--	--
159-101-18BBC	RODVOLD, JEWELL	--	200	--	3	1943	100.00		1963	H,S	--	2950	--	--
159-101-18BCB	USBR 10	--	61	--	--	1946	--		--	--	--	--	--	2100
159-101-20BDA	USBR AH-12	--	23	--	--	1946	--		--	--	--	--	--	2067
159-101-22AAD	CORNELIUSON, A	--	84	--	24	--	78.00		1948	H,S	--	--	--	--
159-101-22ABC	USBR AH-15	--	60	--	--	1946	--		--	--	--	--	--	2103
159-101-22BBC	USBR AH-14	--	28	--	--	1946	--		--	--	--	--	--	2071
159-101-25BBC	ANDERSON, ADOLPH	--	28	--	--	1960	20.00		1965	H,S	112GCDF	910	8.0	--
159-101-25BCC	LUNGTIN, ROBERT	60	60	36	4.50	06/14/1978	30.00		06/14/1978	H	--	1460	10.0	--
159-101-26AAB	ZAHL SCHOOL	--	205	--	4	1953	100.00		1965	P	125FRUN	1880	--	--
159-101-26AAC	HANSON, NELS	--	67	--	6	1950	27.00		1963	H	--	--	--	--

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159-101-26ABC	TEST HOLE	--	50	--	1.25	10/ /1963	17.31	11/12/1963	--	112GCDF	1623	--	2000
159-101-27BAA	QUARNE, O	--	95	--	6	--	8.00	1959	H,S	--	--	--	--
159-101-27DAA	HANSON, H	--	97	--	24	1939	70.00	1963	S	--	--	--	--
159-101-28CCC	GUNLICKSON, JULIAN	--	153	--	4	1964	90.00	1964	S	--	--	--	--
159-101-31CCC	SCHILKE, H	--	180	--	6	--	120.00	1961	H,S	--	--	--	--
159-101-32DBB	RUSTAD, H	--	100	--	5	1905	96.00	1948	H,S	--	--	--	--
159-101-32DCD	RUSTAD, H	--	80	--	5	1945	80.00	1963	H	--	--	--	--
159-101-33AAA	BRANNON, Z.	--	180	--	6	--	160.00	1948	U	--	--	--	--
159-101-34ABB	LUNDE, JOSEPH	79	79	74	4.50	09/29/1977	58.00	09/29/1977	H	125FRUN	2700	11.0	--
159-101-34ABC	LUND, J	--	85	--	24	--	70.00	1948	U	--	--	--	--
159-101-34DCC1	BRATLIEN, A	--	64	--	24	--	20.00	1963	H,S	--	--	--	--
159-101-34DCC 2	BRATLIEN, KENNETH A	120	120	100	4.50	09/20/1979	22.00	09/20/1979	S	--	1950	10.0	--
159-102-01BCC	EBERLE, G	--	47	--	36	--	33.00	1948	H,S	--	--	--	--
159-102-07ABB	GOLF COURSE, GRENORA	100	97	77	4.50	09/23/1979	--	--	H	--	2410	9.0	--
159-102-07BBB	LUND, J	--	200	--	--	--	--	--	S	--	--	--	2130
159-102-08CBD	USBR AH3	--	54	--	--	1946	14.00	1946	--	--	--	--	2102
159-102-08CDA	USBR 4	--	58	--	--	1946	27.00	1946	--	--	--	--	2102
159-102-11BAD	SIMONEAU, L	--	42	--	24	1926	30.00	1963	S	--	--	--	--
159-102-12CCC	USBR 9	--	88	--	--	1946	52.00	1946	--	--	--	--	2132
159-102-13AAB	HANKS, ND	--	65	--	24	--	58.00	1948	H	--	--	--	--
159-102-14CBA	MOEN, A	--	235	--	4.50	--	210.00	1963	U	--	--	--	--
159-102-18DDC	FISCHER, E	--	151	--	18	--	120.84	08/11/1948	S	--	--	--	--
159-102-19CDD	KILBRIDE, T	--	92	--	24	--	78.00	1963	H	--	--	--	--
159-102-20CBA	LARSUN, L	--	235	--	4	1958	--	--	S	--	--	--	--
159-102-20DDC	LARSON, W	--	35	--	24	--	19.70	08/11/1948	H	--	--	--	2230
159-102-26BBA	HEXEM, ELMER	--	110	--	6	1958	65.00	1958	S	125FRUN	2960	6.5	--
159-102-26BBB	HEXEM, E	--	24	--	48	--	16.00	1948	H,S	--	--	--	2260
159-102-29BCB	GARAAS, H	--	260	--	4	1960	240.00	1963	H	--	--	--	--
159-102-30ADD	GARAAS, O	--	38	--	18	--	11.75	08/11/1948	H	--	--	--	2240
159-102-30BAD	FISCHER, A	--	59	--	24	--	43.09	08/11/1948	S	--	--	--	2240
159-102-33DDD	RUSS, JR., H	--	121	--	7	--	112.00	1948	S	--	--	--	2260
159-102-35CCB	POLING, CLARENCE	--	14	--	36	1950	7.00	07/31/1963	H,S	--	--	--	--
159-103-03AAD	JENSEN, E	--	77	--	30	--	47.25	08/10/1948	S	--	--	--	--
159-103-10AAA	JACOBSON, O	--	100	--	6	--	35.00	1963	S	--	--	--	--
159-103-10BBB	NDSWC 3083	275	250	230	1.25	10/21/1963	37.69	11/12/1963	U	112GRNR	1900	--	2050
159-103-11ABA	ARNOLD, O	--	333	--	6	--	40.00	1959	S	--	--	--	--
159-103-12ACC	TEST HOLE	--	240	--	4.75	09/ /1965	--	--	--	--	--	--	2060
159-103-12CAA	CITY OF GRENORA	--	26	--	144	1937	17.99	07/13/1965	P	112GCDF	1040	7.5	2060
159-103-12CAD	CITY OF GRENORA	--	38	--	24	--	20.00	1965	P	112GCDF	890	8.5	2060
159-103-12CCC	TEST HOLE	--	140	--	4.75	09/ /1965	--	--	--	--	--	--	2080

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159-103-13ABB	JEFSON, M	--	148	--	24	--	88.00	1948	H,S	--	--	--	2090
159-103-13CBC	USBR 6P	--	58	--	--	1946	--	--	--	--	--	--	2102
159-103-14BAB	USBR 8	--	112	--	--	1946	14.00	1946	--	--	--	--	2037
159-103-14CAB	ANGERMEIER, CYNTHIA	--	40	--	4	1955	30.00	1955	H	--	--	--	--
159-103-20ADD	PRICE, C	--	130	--	4	--	70.00	1948	H,S	--	--	--	--
159-103-21ACB	PETERSON, P	--	65	--	24	--	45.00	1948	S	--	--	--	--
159-103-23AUD	TEST HULE	--	160	--	4.75	1965	--	--	--	--	--	--	--
159-103-23DUD	TANGEN, S	--	168	--	6	--	148.00	--	--	--	--	--	2050
159-103-24CBB	FISCHER, A	--	190	--	6	--	126.00	1948	S	--	--	--	2160
159-103-24CCB	FISCHER, A	--	53	--	30	--	36.16	1963	H	--	--	--	2150
159-103-25CCC	TEST HOLE	--	140	--	4.75	09/ /1965	--	08/10/1948	S	--	--	--	--
159-103-26BAC	ANGERMEIER, R	--	140	--	4	--	--	--	--	--	--	--	--
159-103-26CCD	PETERSON, DENNIS	180	--	--	--	07/03/1980	--	--	S	--	--	--	2220
159-103-27CCD	LUNDBY LIEF	--	165	--	4	1948	--	--	--	--	--	--	--
159-103-28CAB	LINDQUIST, B	--	56	--	--	--	--	--	--	--	--	--	--
159-103-28CCA	GETTY	239	239	231	3	11/07/1979	47.00	1963	H	--	1570	--	--
159-103-29CCC1	PRICE, CLIFFORD	165	152	142	5	07/02/1980	6.00	11/07/1979	--	--	--	--	--
159-103-29CCC2	PRICE, CLIFFORD	310	310	300	5	11/13/1981	60.00	07/02/1980	H	--	--	--	--
159-103-32ABD	MEDHUS, V	--	114	--	6	--	20.00	11/13/1981	H	--	--	--	--
159-103-36DBA	SCHOOL LAND, NORTH DAK.	276	276	252	4	07/25/1977	94.00	1948	H,S	--	--	--	--
							200.00	07/25/1977	S	--	3620	9.0	2070
													--


40 (OVERSIZE FIGURE)

TABLE 2.--Logs of wells and test holes in the Sand Creek-Hanks coal area.

154-101-02ABC
(Log modified from Arcand Drilling Co.)
Date drilled: 10/18/79

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Shale, gray	15	16
Sand and gravel	5	21
Shale, blue	72	93
Sand	8	101
Sand and gravel	15	116

154-101-03CCD
(Log modified from Water Supply, Inc.)
Dated drilled: 03/24/81

Topsoil, black, silty	1	1
Clay, yellowish-brown, silty; with lots of rock	21	22
Sand, fine to medium	9	31
Gravel, fine to coarse	9	40
Sand, fine to coarse	12	52
Gravel, fine to coarse; contains about 10 percent sand with a few rocks	24	76
Clay, medium-gray, silty	4	80

154-101-03CDC
(Log modified from Water Supply, Inc.)
Date drilled: 03/24/81

Topsoil, black, silty	0.5	0.5
Gravel, fine to coarse; contains about 20 percent sand	14.5	15
Clay, yellowish-brown, silty	4	19
Clay, yellowish-brown, sandy, silty	16	35
Clay, yellowish-brown, silty	5	40
Gravel, fine to coarse	1	41
Clay, yellowish-brown, sandy, silty	9	50
Gravel, fine to coarse	2	52
Sand, fine to coarse	3	55
Gravel, fine to coarse; contains about 10 percent sand with a few rocks	5	60
Clay, medium-gray, silty	5	65

154-101-03DCC
(Log modified from Water Supply, Inc.)
Date drilled: 03/24/81

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, fine to medium	3	3
Clay, yellowish-brown, silty	18	21
Sand, fine to medium	3	24
Clay, yellowish-brown, silty	14	38
Gravel, fine to coarse	1	39
Clay, yellowish-brown, sandy, silty	10	49
Sand, fine to medium	5	54
Gravel, fine to coarse; contains about 10 percent sand with a few rocks	8	62
Coal	3	65
Clay, medium-bluish-gray, silty	5	70

154-102-10DDD
(Log modified from Arcand Drilling Co.)
Date drilled: 07/15/78

Topsoil	1	1
Shale, light-gray	61	62
Coal	18	80
Shale, blue	15	95
Coal	11	106
Shale, blue	59	165
Coal	2	167
Shale, blue	138	305
Sand, dry	16	321
Shale, blue	18	339
Sand	16	355
Shale, blue	5	360

154-102-13AAD
(Log modified from Seidel Service, Inc.)
Date drilled: 06/05/81

Fill dirt	2	2
Clay, brown	25	27
Sand	24	51
Gravel	6	57
Clay, brown	3	60
Coal	20	80
Clay, brown	12	92

154-102-13DAA
(Log modified from Arcand Drilling Co.)
Date drilled: 09/11/81

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Shale, brown	28	29
Shale, blue	47	76
Coal	12	88
Shale, blue; with coal streak	12	100

154-102-14DDA
(Log modified from Arcand Drilling Co.)
Date drilled: 04/24/78

Topsoil	1	1
Shale, brown, pebbly	23	24
Shale, sandy	3	27
Shale, brown	27	54
Sand	10	64
Shale, blue	52	116
Shale, sandy	8	124
Coal	14	138
Shale, blue	8	146

154-102-22ADD
(Log modified from Arcand Drilling Co.)
Date drilled: 12/29/80

Topsoil	1	1
Clay, brown, sandy	21	22
Sand	4	26
Shale, brown	26	52
Sandstone	2	54
Shale, brown	14	68
Shale, blue	22	90
Coal	8	98
Shale, blue	53	151
Coal	3	154
Shale, blue; with coal streaks	16	170
Shale, blue	65	235
Sand streaks and coal streaks	62	297

154-102-23CCB
(Log modified from Seidel Service, Inc.)
Date drilled: 06/17/80

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Clay, brown	15	16
Sand	4	20
Clay, blue	34	54
Coal	7	61
Clay, blue	70	131
Coal	6	137
Clay, blue	46	183
Coal	2	185
Clay	2	187

154-102-23CDD
(Log modified from Arcand Drilling Co.)
Date drilled: 05/17/78

Topsoil	1	1
Shale, brown, pebbly	40	41
Sand; with a little gravel	34	75
Shale, brown	9	84
Coal	5	89
Shale, blue	95	184
Coal	13	197
Shale, blue	5	202
Rock	2	204
Shale, blue	34	238
Sand streaks	18	256
Sand, fine	5	261
Shale, gray	10	271

154-102-24DDB
(Log modified from Arcand Drilling Co.)
Date drilled: 12/28/79

Topsoil	1	1
Shale, brown, pebbly	20	21
Shale, blue	30	51
Coal	3	54
Shale, blue	48	102
Coal	8	110

154-102-28ABB
(Log modified from Arcand Drilling Co.)
Date drilled: 04/10/78

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Shale, brown	55	56
Coal	5	61
Shale, blue; with coal streaks	25	86
Coal	3	89
Shale, blue; with coal streaks	22	111
Shale, gray	35	146
Sand, fine	2	148
Shale, blue	27	175
Sand, fine	2	177

154-103-05DAD
(Log modified from Arcand Drilling Co.)
Date drilled: 06/23/79

Topsoil	1	1
Shale, brown, pebbly	41	42
Coal	9	51
Shale, blue	2	53

154-103-07DCA
(Log modified from Arcand Drilling Co.)
Date drilled: 10/25/80

Topsoil	1	1
Clay, brown, pebbly	17	18
Clay, brown	26	44
Coal	5	49
Shale, blue; with coal streaks	46	95
Shale, fine, sandy	20	115
Coal	11	126
Shale, blue	42	168
Coal	4	172
Shale, blue; with coal streaks	108	280
Coal	10	290
Shale, blue, sandy	33	323
Sand, fine	10	333
Shale, blue	32	365
Sand, fine	16	381
Shale, blue	4	385

154-103-08AAA
(Log modified from E.C. Gendron & Sons)
Date drilled: 04/08/80

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Glacial till	60	60
Coal, sand	6	66
Shale, gray	18	84

154-103-13BCA
(Log modified from Arcand Drilling Co.)
Date drilled: 10/08/80

Topsoil	1	1
Clay, sandy, pebbly	14	15
Clay, brown	5	20
Clay, brown, sandy	55	75
Clay, blue	17	92
Coal	9	101
Clay, blue	36	137
Shale, sandy; with coal streaks	23	160

154-103-13BCB
(Log modified from Arcand Drilling Co.)
Date drilled: 10/10/80

Topsoil	1	1
Clay, sandy, pebbly	15	16
Clay, brown, sandy	47	63
Coal	1	64
Clay, blue	33	97
Shale, blue; with coal streaks	18	115
Shale, blue	18	133
Clay, blue	14	147
Shale, sandy; with coal streaks	43	190
Coal	6	196
Shale, sandy; with coal streaks	23	219
Sand, fine	4	223
Clay, blue	7	230

154-103-21CDD
(Log modified from Arcand Drilling Co.)
Date drilled: 08/26/78

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Shale, brown, pebbly	5	6
Sand and gravel	11	17
Shale, gray	40	57
Coal	5	62
Shale, blue	25	87
Sand	12	99
Coal	5	104
Shale, blue	6	110

154-103-22CCC
(Log modified from Arcand Drilling Co.)
Date drilled: 10/27/79

Topsoil	1	1
Shale, brown, pebbly	23	24
Shale, blue	81	105
Coal	2	107
Shale, blue	45	152
Coal	4	156
Shale, blue	37	193
Shale, sandy	12	205
Sand, fine	11	216
Coal	4	220

154-103-24CCA
(Log modified from Seidel Service, Inc.)
Date drilled: 09/27/80

Topsoil	1	1
Clay, brown	18	19
Coal	2	21
Clay, blue	22	43
Coal	4	47
Clay	99	146
Sandstone	8	154
Clay	56	210
Coal	12	222
Clay	61	283
Coal	7	290
Clay	22	312

154-103-24DBB
(Log modified from Arcand Drilling Co.)
Date drilled: 06/17/81

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Clay, brown, sandy	8	9
Clay, brown	29	38
Coal streaks	22	60
Shale, gray	8	68
Sandstone	19	87
Sand streaks, fine	65	152
Shale, blue	15	167
Coal	4	171
Shale, blue	27	198
Coal	7	205
Sand, fine and coal streaks	30	235

154-103-24DBD
(Log modified from Arcand Drilling Co.)
Date drilled: 05/16/78

Topsoil	1	1
Shale, brown, pebbly	23	24
Coal, soft	4	28
Shale, blue	44	72
Sand	34	106
Sandstone	1	107
Sand	17	124
Shale, green	21	145

154-103-34BAA
(Log modified from Arcand Drilling Co.)
Date drilled: 03/31/78

Topsoil	1	1
Shale, brown	3	4
Sand	2	6
Shale, blue	38	44
Coal	1	45
Shale, blue	1	46
Coal	3	49
Shale, blue	5	54
Shale, light-brown	13	67
Shale, sandy	43	110
Sandstone	3	113
Sand, fine	3	116
Sandstone	1	117

154-104-26CCA
(Log modified from Arcand Drilling Co.)
Date drilled: 10/07/77

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Shale, brown	23	24
Coal	2	26
Shale, brown, sandy	61	87
Shale, blue	6	93
Sand, blue	6	99
Sandstone	1	100
Coal	7	107
Shale, brown	3	110

155-101-04CCA
(Log modified from Seidel Service, Inc.)
Date drilled: 05/31/79

Dirt, black	1	1
Clay, brown	38	39
Scoria	8	47
Clay, blue	35	82
Coal	12	94
Clay, blue	8	102

155-101-07BBC
(Log modified from Fixen Water Wells)
Date drilled: 12/27/81

Topsoil	2	2
Sand and gravel	18	20
Shale and gravel	6	26
Gravel, dry	1	27
Sand and gravel	13	40
Gravel	4	44
Shale	3	47
Shale, sandy	13	60
Coal	1	61
Shale	35	96
Gravel	1	97
Shale	6	103
Coal	7	110
Shale	2	112
Coal	6	118
Shale	2	120

155-101-15ADD
(Log modified from Kieson Drilling Co.)
Date drilled: 04/15/78

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	2	2
Sand	48	50
Gravel, coarse	2	52
Sand	32	84
Clay, sandy	7	91
Coal	13	104
Clay	57	161
Coal	11	172
Clay	3	175

155-101-15DBD1
(Log modified from Arcand Drilling Supply)
Date drilled: 09/30/78

Topsoil	1	1
Shale, brown, pebbly	26	27
Coal	2	29
Shale, blue	28	57
Coal	3	60
Shale, blue	11	71
Coal	8	79

155-101-15DBD2
(Log modified from Arcand Drilling Co.)
Date drilled: 08/27/79

Topsoil	1	1
Shale, brown, pebbly	45	46
Shale, blue	10	56
Sand	20	76
Shale, blue	2	78

155-101-16CCB
(Log modified from Arcand Drilling Co.)
Date drilled: 03/28/80

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Shale, brown, pebbly	14	15
Shale, brown	10	25
Sand, fine	3	28
Shale, blue	21	49
Coal	1	50
Shale, blue	68	118
Sand, fine	5	123
Sand, coarse	18	141
Coal	14	155
Shale, blue	2	157

155-101-20AAA
(Log modified from Mon-Dak Drilling Co.)
Date drilled: 03/01/77

Topsoil	1	1
Till, yellow	47	48
Till	21	69
Coal	4	73
Clay	31	104
Coal and shale	6	110
Clay	72	182
Sand, blue	16	198

155-101-28DDD
(Log modified from Mon-Dak Drilling Co.)
Date drilled: 06/11/80

Topsoil	2	2
Gravel, sandy	30	32
Clay	5	37
Coal	3	40
Clay	7	47
Gravel	4	51
Clay	32	83
Coal	9	92
Clay	2	94

155-101-32AAB
(Log modified from Arcand Drilling Co.)
Date drilled: 07/29/80

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Shale, brown, pebbly	18	19
Shale, brown, sandy	4	23
Shale, brown	15	38
Shale, blue	61	99
Sand and gravel; dry	27	126
Shale, blue	65	191
Coal	8	199
Shale, blue	35	234
Sand, fine, coal streaks	6	240

155-102-10CBC
(Log modified from Thompson Drilling Co.)
Date drilled: 11/03/77

Topsoil	3	3
Sandy	21	24
Clay	6	30
Clay and coal	10	40
Coal	8	48
Clay	20	68
Coal	5	73
Clay	28	101
Sandy	5	106
Clay	7	113
Sandy	5	118
Clay	23	141
Sandy	13	154
Coal	8	162
Clay	16	178

155-102-20BCD
(Log modified from Tandeski Drilling Co.)
Date drilled: 04/21/81

Clay, brown	23	23
Coal	2	25
Clay, gray	19	44
Coal	6	50
Clay, gray, sandy	18	68
Clay, gray	14	82
Sand, gray; water from 110 to 116 ft.	34	116
Clay, gray	7	123
Coal, dry	11	134
Clay, gray	6	140

155-103-30CAB
(Log modified from Arcand Drilling Co.)
Date drilled: 10/03/77

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Shale, light-gray	8	9
Shale, brown, sandy	48	57
Shale, brown	7	64
Shale, gray	18	82
Coal	4	86
Shale, blue; and a little green shale	28	114
Coal	7	121
Shale, blue	35	156
Coal	3	159
Shale, blue	10	169
Coal	13	182
Shale, blue	16	198
Coal	22	220
Sand, fine	5	225
Shale, blue; with a little coal streak	6	231

156-101-25ADB2
(Log modified from Arcand Drilling Co.)
Date drilled: 04/30/80

Topsoil	1	1
Shale, brown, pebbly	26	27
Sand, fine, gravel	17	44
Shale, blue	33	77
Coal	2	79

156-102-08DAC2
(Log modified from Mon-Dak Drilling)
Date drilled: 02/12/73

Topsoil	1	1
Sand, fine	5	6
Gravel	12	18
Gravel, clayey	9	27
Sand	40	67
Clay	30	97
Gravel	11	108

156-102-08DAC3
(Log modified from Henry Halverson)
Date drilled: 06/15/73

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand and gravel; lots of brown water; iron content too high	52	52
Clay, gray; good water; not enough	28	80
Clay, gray; brown water; iron content high	24	104

156-102-08DAD
(Log modified from Henry Halverson)
Date drilled: 08/01/73

Rocks, gravel and clay	12	12
Clay, gray	91	103

156-102-10DDC
(Log modified from Arcand Drilling Co.)
Date drilled: 08/15/77

Topsoil	1	1
Shale, brown, pebbly	42	43
Shale, blue	26	69
Sand and gravel	13	82
Shale, blue	4	86

156-103-24AAB
(Log modified from Arcand Drilling Co.)
Date drilled: 04/23/78

Topsoil	1	1
Shale, brown, pebbly	6	7
Rock	3	10
Shale, brown	4	14
Shale, blue	32	46
Shale, sandy	6	52
Coal	14	66
Shale, blue	2	68

157-102-30ABB1
(Log modified from Henry Halverson)
Date drilled: 09/04/75

Rocks, some clay	52	52
Clay	38	90
Clay, gray	55	145
Gravel	--	145

157-102-32AAB
(Log modified from Henry Halverson)
Date drilled: 06/20/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, gray, sandy	120	120
Coal	5	125
Clay, gray, sandy	79	204

157-102-33BBC
(Log modified from Arcand Drilling Co.)
Date drilled: 06/16/79

Topsoil	1	1
Shale, brown, pebbly	21	22
Shale, brown	23	45
Gravel	2	47
Shale, brown	15	62
Gravel	3	65
Shale, brown	11	76
Shale, blue	42	118
Sand	1	119
Coal	8	127
Shale, blue	1	128

157-103-12DDC2
(Log modified from Carlson Drilling Co.)
Date drilled: 09/25/81

Clay, yellow, rocky	58	58
Clay, blue, sticky	15	73
Gravel, fine	3	76
Clay, sticky	3	79
Gravel	1	80
Clay, sticky	71	151
Coal	5	156
Clay	1	157

157-103-23AAA
(Log modified from Schimelfenig Well Drilling, Inc.)
Date drilled: 11/07/80

Topsoil	1	1
Till, yellow	21	22
Till, gray	21	43
Till, brown; some medium gravel	2	45
Till, gray	15	60
Till, gray; some fine sand lenses	5	65
Clay, gray; some coal spots	35	100

157-103-27DAB
(Log modified from Carlson Drilling Co.)
Date drilled: 08/10/77

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, yellow, rocky	41	41
Till	53	94
Clay, blue	13	107
Coal and clay	2	109
Clay, blue	32	141
Sand and coal seams	4	145
Clay, blue	31	176
Coal	8	184
Coal and sandy clay	2	186

158-101-02CDC
(Log modified from Schimelfenig Well Drilling, Inc.)
Date drilled: 11/14/80

Topsoil	1	1
Till, yellow	19	20
Till, gray	30	50
Clay, gray	25	75
Coal	10	85
Clay, gray	5	90

158-101-02DAD
(Log modified from Carlson Drilling Co.)
Date drilled: 10/30/74

Sand, yellow and fine gravel	10	10
Clay, yellow, rocky	15	25
Till	19	44
Clay, blue	31	75
Sand	3	78
Clay and small sand seams	9	87
Clay and coal	13	100
Clay, blue; with some small coal seams	108	208
Sandstone	4	212
Sand	13	225

158-101-11ADD1
(Log modified from Henry Halverson)
Date drilled: 08/01/76

Sand	45	45
Clay, blue	1	46

158-101-19CCC
(Log modified from Arcand Drilling Co.)
Date drilled: 07/10/78

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Shale, brown, pebbly	18	19
Shale, blue	57	76
Coal	3	79
Shale, green	7	86
Shale, blue	46	132
Sand streaks	20	152
Coal	19	171
Shale, blue	5	176

158-101-24ABD
(Log modified from Russell Drilling Co., Inc.)
Date drilled: 03/13/80

Sand, yellow, medium to coarse	18	18
Sand, medium to coarse and gravel	47	65
Gravel, coarse, well-rounded; uniform sand	25	90
Sand and gravel	8	98
Clay; dry	22	120

158-101-24ADB
(Log modified from Farmers Supply Co.)
Date drilled: 06/04/76

Topsoil	1	1
Gravel, medium	28	29

158-101-24BDB
(Log modified from Schimelfenig Well Drilling, Inc.)
Date drilled: 04/25/81

Topsoil	1	1
Gravel, brown	19	20
Gravel, coarse	15	35
Gravel, coarse; some coal	5	40
Gravel, coarse	33	73
Sand, fine	27	100

158-101-24DCA
(Log modified from Schimelfenig Well Drilling, Inc.)
Date drilled: 07/29/81

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Gravel, medium to coarse	64	65
Gravel, coarse; some coal	36	101

158-102-23DAA2
(Log modified from Arcand Drilling Co.)
Date drilled: 08/13/77

Topsoil	1	1
Shale, brown	36	37
Gravel	2	39
Shale, blue; with gravel streaks	16	55
Shale, blue	48	103
Shale, sandy	2	105
Sand	2	107
Shale, blue; with coal streaks	16	123
Shale, blue	51	174
Coal	3	177
Shale, blue	47	224
Rock	2	226
Sand, blue; with white crystals	14	240
Shale, blue	5	245

158-103-04CAD
(Log modified from Water Supply, Inc.)
Date drilled: 11/24/80

Topsoil, black, silty	1	1
Clay, yellowish-brown, silty	7	8
Gravel, fine to coarse	3	11
Clay, yellowish-brown, silty	8	19
Clay, yellowish-brown, sandy, silty	16	35
Clay, olive-gray; with small gravel layers	10	45
Sand, fine to coarse	10	55
Clay, olive-gray; silty	6	61
Sand, fine to coarse	4	65
Gravel, fine to coarse; about 10 percent sand	7	72
Clay, bluish-gray, sandy; about 45 percent sand	8	80

158-103-10AAB
(Log modified from Arcand Drilling Co.)
Date drilled: 05/22/79

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Shale, brown, pebbly	17	18
Coal	7	25
Shale, blue	64	89
Shale, blue, sandy	7	96
Coal	3	99
Shale, blue, sandy	33	132
Shale, gray	31	163
Shale, blue, sandy	35	198
Coal	4	202
Shale, blue	3	205

158-103-33CDB
(Log modified from Carlson Drilling Co.)
Date drilled: 06/21/79

Clay, yellow, rocky	40	40
Clay, blue, rocky	20	60
Sand and coal streak	10	70
Clay	2	72

159-101-25BBC
(Log modified from Arcand Drilling Co.)
Date drilled: 06/14/78

Sand	36	36
Shale, blue	11	47
Coal	1	48
Shale, blue	4	52
Coal	2	54
Shale, blue	6	60

159-101-34ABB
(Log modified from Arcand Drilling Co.)
Date drilled: 09/29/77

Topsoil	1	1
Shale, sandy	21	22
Sand and gravel	50	72
Coal	7	79

159-101-34DCC2
(Log modified from Arcand Drilling Co.)
Date drilled: 09/20/79

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Sand and gravel	20	21
Shale, blue	33	54
Sand streaks and coal	27	81
Coal	2	83
Sand streaks and coal	37	120

159-102-07ABB
(Log modified from Arcand Drilling Co.)
Date drilled: 09/23/79

Topsoil	1	1
Shale, brown, pebbly	4	5
Sand and gravel	16	21
Shale, blue	45	66
Sand, fine	5	71
Shale, blue	13	84
Sand, fine	4	88
Shale, blue	12	100

159-103-26CCD
(Log modified from Schimelfenig Well Drilling, Inc.)
Date drilled: 07/03/80

Topsoil	1	1
Clay, yellow	61	62
Clay, yellow; with limestone lenses	28	90
Clay, yellow	10	100
Clay, gray	60	160
Clay, blue; with coal lenses	5	165
Clay, blue	5	170
Shale, blue, soft	10	180

159-103-28CCA
(Log modified from Carlson Drilling Co.)
Date drilled: 11/07/79

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Silt, yellow	20	20
Till, blue	44	64
Sand, coarse	1	65
Sand, fine	9	74
Clay, sandy	144	218
Clay, yellow, sandy	4	222
Sand, yellow	1	223
Clay, yellow	10	233
Sand, yellow, fine	3	236
Clay, yellow and blue mixed	3	239

159-103-29CCC1
(Log modified from Schimelfenig Well Drilling, Inc.)
Date drilled: 07/02/80

Topsoil	1	1
Clay, yellow	39	40
Sand, brown, fine	10	50
Till, yellow	15	65
Clay, yellow	5	70
Clay, gray; some medium gravel lenses	5	75
Till, gray	5	80
Clay, gray	10	90
Sand, gray, fine	4	94
Clay, gray	41	135
Sand, gray, fine; with coal layers	22	157
Clay, gray	8	165

159-103-29CCC2
(Log modified from Schimelfenig Well Drilling, Inc.)
Date drilled: 11/13/81

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Clay, yellow and brown	64	65
Clay, gray	225	290
Gravel, medium to coarse	20	310

159-103-36DBA
(Log modified from Carlson Drilling Co.)
Date drilled: 07/25/77

Clay, yellow, rocky	58	58
Till	71	129
Clay, blue; with small coal seam	91	220
Sand, fine, clayey	37	257
Sand, hard, cemented	19	276

63 (OVERSIZE FIGURE)

TABLE 3.--Chemical analysis of selected water samples in the Sand Creek-Hanks coal area.

Principal aquifer

111, Holocene
112, Pleistocene
125, Paleocene

ALVM, alluvium
FRUN, Fort Union Formation
GCDF, Glacial drift, undifferentiated
GLCL, Glacial deposit, undifferentiated
LLMD, Little Muddy aquifer
RAY, Ray aquifer
SNLB, Sentinel Butte Member of Fort Union Formation

Specific conductance

Value shown is the field specific conductance measured at the well at the time of inventory.

LOCAL IDENTIFIER	GEOLOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (uMHO/CM AT 25°C)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
154-100-20BBA	112GCOF	48	65-05-26	14100	7.7	9.5	930	210	180	120	3040	87	43	15	886	0	760	4100	.7	32	9250	.68	1	--	--
154-100-20BB8	112GCOF	51	65-05-26	87400	7.2	9.5	3740	3300	750	450	21000	93	161	89	506	0	1390	55400	1.0	27	64000	.00	1	--	--
154-101-02BBb	125FRUN	35	66-06-22	961	6.3	--	340	0	88	30	110	40	2.6	9.5	464	0	200	1.0	.4	41	930	.56	0	--	--
154-101-02BC8	125FRUN	53	66-06-22	1100	7.2	--	280	0	65	29	180	57	4.5	6.9	608	0	160	.0	.4	19	800	.09	0	--	--
154-102-14DDA	125FRUN	146	82-06-29	2330	7.1	13.0	92	--	17	12	510	92	23	4.6	--	--	650	8.0	.2	16	1500	--	540	100	50
154-102-22ADD	125FRUN	297	82-06-30	2800	7.6	9.5	47	--	10	5.4	710	97	45	5.1	--	--	500	9.4	.7	11	1900	--	300	180	30
154-102-24DDB	125FRUN	110	82-07-21	1160	7.4	10.0	200	--	42	24	200	67	6.8	5.6	--	--	170	4.9	.4	13	919	--	260	<5	65
154-102-25AAD	112GCOF	110	65-07-15	680	7.4	--	290	0	58	35	39	22	1.0	6.8	425	0	31	1.0	.2	18	377	.25	0	--	--
154-103-05DA0	125FRUN	53	82-06-23	1190	6.1	9.5	580	--	110	75	47	15	1.0	8.0	--	--	330	11	.1	25	066	--	1000	5700	760
154-103-24CCA	125FRUN	290	82-06-29	2930	7.2	10.0	230	--	42	30	630	85	10	0.1	--	--	750	11	.4	21	2030	--	550	110	70
154-103-24DBD	--	145	82-06-29	2600	6.6	9.5	1500	--	180	250	140	17	1.6	12	--	--	690	8.0	.1	21	1960	--	<10	230	1100
155-100-06AAA	112GLCL	126	58-10-16	2480	--	--	400	0	58	62	450	71	9.7	6.8	776	0	730	15	.4	21	1770	--	0	--	--
155-100-30DDC	112GCOF	28	58-10-24	1560	7.3	--	310	0	63	37	250	64	6.5	6.6	801	0	220	16	1.0	26	1040	.81	0	--	--
155-100-31BB8	112GLCL	90	58-10-23	1590	--	--	310	0	64	37	270	65	6.7	6.0	794	0	240	16	.8	20	1050	--	0	--	--
155-101-04CCA	125FRUN	91	82-06-23	1600	6.8	9.5	400	--	84	45	230	35	5.6	6.2	--	--	300	3.7	.2	20	1040	--	550	2100	370
155-101-20BBC	125FRUN	129	61-04-27	--	7.1	--	2000	740	--	--	--	--	--	--	988	0	--	--	--	--	2290	.90	--	--	--
155-101-24DDD	112GCOF	72	64-09-05	1510	7.6	--	440	0	90	52	170	47	3.8	10	700	0	260	3.9	.7	21	980	.45	0	--	--
155-101-36BCC	--	1	65-08-06	1230	--	--	220	0	54	21	210	67	6.2	3.8	588	0	190	2.0	.2	13	757	--	0	--	--
155-102-08DDA	125FRUN	52	66-05-25	1090	7.3	--	510	200	120	51	55	13	1.1	6.8	378	0	300	10	.1	23	835	.54	0	--	--
155-102-20BCD	--	115	82-06-23	3880	7.9	9.5	44	--	10	4.7	990	98	65	5.2	--	--	980	9.6	.4	19	2750	--	1200	20	20
155-102-32CCC	125FRUN	40	65-07-22	3590	7.5	8.5	600	0	120	73	700	71	12	9.6	924	0	1300	25	.1	15	2770	1.10	1	--	--
155-103-30CAB	--	231	82-06-23	2060	7.7	10.0	65	--	12	8.4	460	93	25	6.2	--	--	340	4.6	.4	13	1380	--	470	210	160
156-100-07CCC2	111ALVM	52	58-10-29	1960	7.3	8.5	450	0	89	56	290	58	5.9	7.0	668	0	540	8.0	.4	24	1380	.09	0	--	--
156-100-33CCC	111ALVM	63	58-10-21	1620	7.0	6.5	400	0	91	43	240	56	5.2	6.8	723	0	330	5.4	.4	24	1090	.80	0	--	--
156-100-35DAA2	125FRUN	235	66-05-27	1480	--	--	440	0	86	56	190	48	3.9	7.7	686	0	270	1.3	.3	17	925	--	0	--	--
156-101-25ADB2	125FRUN	76	82-06-22	600	7.2	11.5	290	--	71	28	13	9	.4	2.5	--	--	42	3.2	.2	23	349	--	80	<3	2
156-102-08DAA	125FRUN	54	66-05-25	3430	7.9	7.0	240	0	42	32	790	87	22	6.8	1290	0	840	5.8	.1	13	2350	.50	1	--	--
156-102-08DAC2	--	108	82-06-22	2530	6.9	10.0	840	--	170	100	330	46	5.0	9.9	--	--	790	7.9	.2	26	1840	--	880	6700	810
156-102-10DDC	--	86	82-06-22	2580	7.0	9.5	480	--	95	60	480	68	9.5	8.2	--	--	610	5.5	.3	23	1810	--	1000	6900	240
156-102-17AAD1	--	18	60-01-22	--	--	--	1300	720	--	--	--	--	--	--	693	0	870	--	--	--	1500	--	--	--	--
156-103-24AAB	125FRUN	68	82-06-22	3500	6.4	10.0	1200	--	210	160	360	40	4.6	9.6	--	--	1300	41	.2	16	2400	--	1100	7600	860
156-103-31AAB	125FRUN	180	66-05-26	1250	7.4	8.0	630	53	200	59	56	16	97	6.6	704	0	150	3.5	.1	22	811	.90	0	--	--
157-101-08BBC	125FRUN	50	60-10-01	--	--	--	560	5	--	--	--	--	--	--	677	0	--	--	--	--	941	1.00	--	--	--
157-102-33BBC	125FRUN	128	82-06-17	4150	6.7	7.5	2900	--	530	380	170	11	1.4	19	--	--	2200	12	.1	28	4000	--	460	110	4600
157-103-12DDC 2	112GCOF	72	66-05-26	1170	7.6	7.0	660	170	170	56	12	4	.2	6.2	600	0	170	9.8	.3	22	771	.50	0	--	--
157-103-27DAB	125FRUN	186	82-06-16	2260	7.5	10.0	140	--	26	17	430	87	16	7.7	--	--	530	4.2	.2	16	1480	--	790	300	70
158-100-08DAA1	112LLMO	160	71-09-09	2080	7.9	8.0	390	0	72	51	360	66	7.9	9.7	600	0	560	10	.4	26	1420	.23	40	1900	20
158-100-08DAA2	112RAY	80	66-05-10	2340	8.1	--	590	0	130	65	350	56	6.3	8.7	841	0	650	11	.4	24	1690	.18	0	--	--
	112RAY	80	80-08-20	2280	7.9	9.5	590	0	130	64	360	57	6.5	8.0	775	0	630	9.8	.3	26	1650	.23	240	2400	310
158-100-17ABB	112GLCL	110	66-05-09	2250	--	--	710	63	160	78	280	45	4.5	9.7	790	0	660	8.0	.3	24	1650	--	1	--	--
158-100-17ABC2	112GCOF	80	66-05-06	2700	7.6	--	980	260	230	99	330	42	4.5	12	884	0	860	7.0	.2	22	2020	.09	0	--	--
158-100-17ADA	112LLMO	45	71-09-15	1860	7.7	8.0	720	320	120	100	180	35	2.9	7.1	404	0	690	3.5	.1	26	1390	.23	130	0	10
	112LLMO	45	82-08-03	1000	7.8	8.5	800	--	160	97	190	34	3.0	12	--	--	650	5.3	.2	26	1510	.23	240	2700	680
158-100-19CCC	112GCOF	84	58-11-06	1730	7.3	7.0	460	0	100	48	250	54	5.0	7.2	659	0	440	10	.4	24	1210	.27	0	--	--
158-100-20AAB	112GCOF	96	66-06-01	1880	7.6	--	720	170	130	88	200	37	3.2	8.6	677	0	560	3.2	.2	25	1390	.05	0	--	--
158-101-02BCB	125FRUN	116	66-05-26	1970	8.1	--	70	0	14	8.5	470	93	7.7	2.5	870	0	340	3.3	.9	11	1310	.70	0	--	--
158-101-19CCC	125FRUN	176	82-06-15	3000	7.4	9.0	360	--	69	45	550	76	13	9.7	--	--	720	22	.1	12	1970	--	630	120	370
158-102-17DDA	112GCOF	38	63-04-09	--	--	--	450	170	--	--	1300	--	26	--	348	0	--	--	--	--	5180	7.50	--	--	--
158-102-23DAA2	--	245	82-06-15	1560	7.1	0.0	490	--	110	52	160	41	3.5	9.0	--	--	260	2.9	.1	24	961	--	390	8000	390
158-102-28ABA	125FRUN	240	65-08-17	2930	8.0	9.0	510	0	110	60	570	70	11	7.7	954	0	930	3.2	.0	12	2190	.16	1	--	--
158-102-30A0C	125FRUN	110	64-04-30	1470	7.0	6.5	660	120	140	79	98	24	1.7	8.4	658	0	330	4.8	.3	7.0	1010	.00	--	--	--
158-103-01CBC	112GCOF	25	65-09-11	1230	7.9	6.5	420	0	100	42	120	38	2.6	5.6	565	0	250	2.0	.2	20	783	.29	0	--	--
158-103-10AAB	125FRUN	205	82-06-16	1860	7.0	9.5	590	--	130	64	170	38	3.4	9.2	--	--	350	5.8	.2	11	1120	--	270	1700	160
158-103-33CDB	125FRUN	72	82-06-30	3800	6.6	8.5	2100	--	470	230	250	20	2.4	16	--	--	2000	7.9	.2	27	3560	--	300	22000	690
159-100-27ACB	112GCOF	30	65-05-12	855	7.9	8.0	280	0	64	30	77	37	2.0	4.6	369	0	110	3.5	.2	20	541	6.10	1	--	--
159-100-28A0D	112LLMO	100	63-10-28	2430	7.9	--	680	170	66	110	230	41	3.9	22	620	0	680	4.0	.2	21	1550	.00	0	--	--
159-101-25ABC	112GCOF	28	65-07-13	910	7.7	8.0	410	160	100	39	41	17	.9	5.3	307	0	170	22	.2	19	578	12.0	0	--	--
159-101-26AAB	125FRUN	205	65-07-13	1880	8.1	--	110	0	28	13	420	88	16	2.7	838	0	340	3.5	.4	14	1230	.18	0	--	--
159-101-26ABC	112GCOF	50	63-10-28	1620	8.0	--	440	55	39	81	170	45	3.6	18	464	0	440	2.0	.2	18	1100	.00	0	--	--
159-101-34ABB	125FRUN	79	82-06-17	2700	7.3	11.0	260	--	56	28	540	82	15	4.9	--	--	590	7.8	.6	19	1070	--	240	100	390
159-102-07ABB	--	97	82-06-16	2430	7.0	9.0	560	--	110	69	260	50	4.8	6.6	--	--	570	4.8	.3	13	1610	--	330	60	210
159-102-26BBA	125FRUN	110	66-05-26	2960	7.4	6.5	940	330	200	110	390	47	5.6	8.4	742	0	1200	5.6	.0	17	2370	.11	1	--	--
159-103-10BBB	112GRNR	250	63-10-22	1900	8.2	--	260	0	43	38	370	74	9.9	15	834	0	380	15	.7	27	1370	.34	0	--	--
	112GCOF	250	82-08-03	1850	7.8	8.5	430	--	80	56	370	64	8.0	13	--	--	400	9.3	.6	28	1480	.23	230	2600	130
159-103-12CAA	112GCOF	26	65-07-13	1040	7.5	8.5	490	62	140	31	40	15	.8	18	518	0	92	47	.1	22	619	.20	0	--	--
159-103-12CAD	112GCOF	38	59-03-17	--	7.2	--	280	8	66	27	15	--	.4	--	327	0	37	1.0	.0	--	474	--	--	--	--
	112GCOF	38	65-07-13	890	7.0	8.5	430	32	120	30	24	10	.5	14	481	0	54	42	.1	24	477	.16	0	--	--
159-103-36DBA	--	276	82-06-16	3620	7.4	9.0	550	--	57	98	640	71	12	14	--	--	1200	6.7	.3	8.2	2620	--	300	320	20

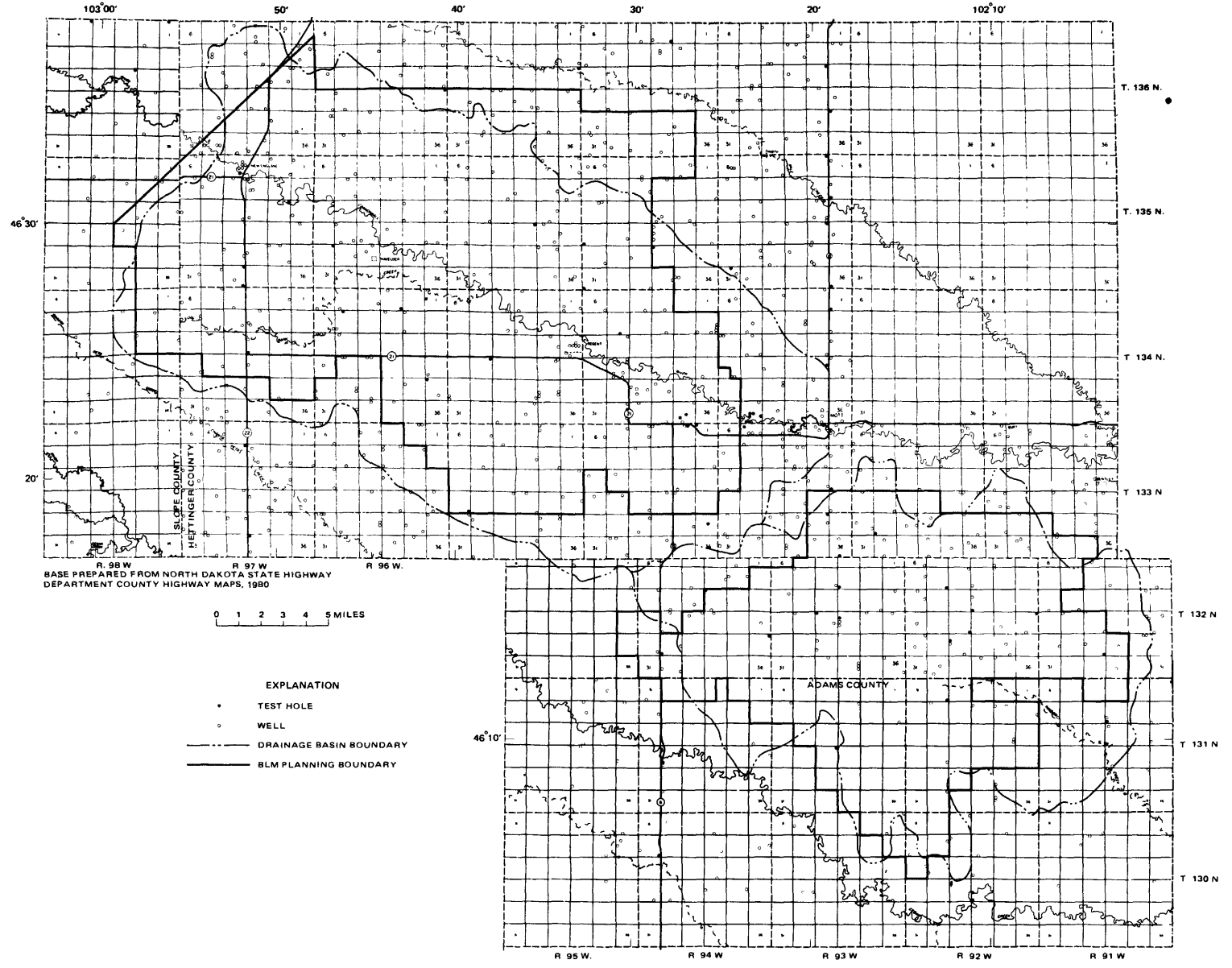

FIGURE 6.—Location of wells and test holes in the New England-Mott coal area.

TABLE 4.--Records of wells and test holes in the New England-Mott coal area.

Owner

Arneson, 1-57, Oil and gas test holes are included that may provide data for the understanding of shallow aquifer systems. Logs are available from the North Dakota Geological Survey

NDGS, North Dakota Geological Survey

NDSHD, North Dakota State Highway Department

NDSWC 4970, North Dakota State Water Commission, test hole number 4970

USBR, United States Bureau of Reclamation

USGS, United States Geological Survey

Water level (feet)

Water level, in feet below or above (+) land surface

D, dry
F, well flows
R, recently pumped
Z, other

Use of water

C, commercial
H, domestic
I, irrigation
P, public supply
S, stock supply
U, unused
Z, other

Principal aquifer

111, Holocene
112, Pleistocene
124, Eocene
125, Paleocene
211, Upper Cretaceous

ALVM, Alluvium
CBLD, Cannonball-Ludlow Members of Fort Union Formation
CNBL, Cannonball Member of Fort Union Formation
FXHL, Fox Hills Sandstone
GVSB, Golden Valley-Sentinel Butte, undifferentiated
HCFH, Hell Creek Formation-Fox Hills Sandstone
LDLW, Ludlow Members of Fort Union Formation
LHCK, Ludlow Formation-Hell Creek Members of Fort Union Formations
SBTR, Sentinel Butte-Tongue River Members of Fort Union Formation
SNLB, Sentinel Butte Member of Fort Union Formation
TGRV, Tongue River Member of Fort Union Formation
TRRC, Terrace deposits
TRVL, Tongue River-Ludlow Members of Fort Union Formation

Specific conductance

Value shown is the field specific conductance measured at the well at the time of inventory.

Altitude of land surface (feet)

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
130-091-04DDD	HINTZ, W	--	116	--	--	1952							
130-091-08ADD	HINTZ, S	--	260	180	6	1933	12.00	10/ /1952	--	125TGRV	--	--	2425
130-091-09BAB	HINTZ, D	--	270	150	4	1951	--	--	H	125LMCK	1550	--	--
130-091-19ADA	JR, H.TEXLEY	--	340	300	4	1970	--	--	H,S	--	1400	--	--
		--	200	180	6	1944	150.00	1971	H	125LMCK	1890	--	2405
130-091-24BBA	HEDGER, H						125.00	1945	H,S	125LMCK	1600	--	2395
130-092-02DCC	LARSON, J	--	95	75	6	1958	45.00	--	H,S	--	1050	--	--
130-092-04AAD	PETERSON, H	--	126	--	6	1966	--	--	H,S	--	1000	--	--
130-092-07CCD	SCHREINER, M	--	90	--	4	1968	--	--	H,S	--	3600	--	--
130-092-08ADA	NYBERG, A	--	255	220	5	1960	100.00	1961	H,S	125LMCK	1700	--	2445
		--	58	--	4	--	13.00	--	H,S	--	1600	--	--
130-092-09BBC	HELLAND												
130-092-10CDC	ANDERSON, I	--	64	--	6	1947	14.00	--	H	--	1900	--	--
130-092-15CCB	DAYTON, A	--	150	--	4	1946	--	--	H,S	--	2200	--	--
130-092-17CBC	BARNES, G	--	150	--	4	1944	--	--	H,S	--	1500	--	--
130-092-18ADD	BARNES, W	--	205	180	5	1948	120.00	1949	H,S	125LMCK	2500	--	2463
		230	230	--	4	1970	114.00	06/ /1971	S	125LMCK	--	--	--
130-092-18DB	1, BARNES	4310	--	--	--	1969	--	--	U	--	--	--	2474
130-092-22CBB	4310, NDSWC	155	31	31	--	1971	17.00	07/ /1971	U	125CNBL	1780	9.5	2330
130-092-22CCC	4311, NDSWC	955	959	918	--	1971	178.00	07/ /1971	U	211MCFM	2200	--	2385
130-093-01AAA	OSTENBERG, J	--	125	95	4	1940	50.00	--	H,S	--	700	--	--
130-093-01CCD	NELSON, L	--	255	--	4	1964	0.00	1980	H,S	125LMCK	1600	--	2510
130-093-05CBB	HOKSTAD, L	--	130	--	4	1957	--	--	H,S	--	1900	--	--
130-093-06AAA	OBERG, Z	150	150	--	6	1943	--	--	H,S	--	1450	--	--
130-093-20CAA	BECKER, A	95	95	--	--	1961	30.00	--	S	--	900	9.5	--
130-093-20DAA	BECKER, A	52	--	--	6	1961	20.00	--	S	--	2250	--	--
130-094-03CDD	LEE, M	116	116	46	4	1965	45.00	--	H,S	--	1600	--	--
130-094-05BDC	PAGEL, E	--	41	--	6	1948	6.00	--	H,S	--	1850	--	--
130-094-06BCA	SLATER, P	80	80	--	4	1968	--	--	U	--	--	--	--
130-094-07CBC	SEIFERT, M	64	64	44	6	1964	17.00	--	H,S	--	900	--	2575
130-094-07DDD1	8348, NDSWC	520	390	378	2	1972	130.00	07/ /1972	U	125TRVL	1670	11.5	2570
130-094-07DDD2	8348A, NDSWC	260	253	247	1	1972	133.00	07/ /1972	U	125TRVL	2100	--	2570
130-094-10DAC	LEE, J	143	143	115	4	1967	--	--	S	--	2400	8.5	--
130-094-12ADD	EGLAND, R	--	34	--	4	1962	15.00	--	H	125TRVL	2300	--	--
130-094-12CAA	EGLAND, B	112	112	85	4	1969	--	--	S	--	--	--	--
130-094-15DCC	BECKER, A	--	130	--	6	1945	30.00	--	H,S	--	1000	--	--
130-094-19DCD	NAGEL, W	73	67	--	6	1964	11.00	07/ /1970	H,S	--	1700	--	--
130-094-20CDD	SEIFERT, J	294	285	260	4	1967	--	--	H,S	--	1200	--	--
130-094-22BCC	HEIDT, C	--	140	--	6	1948	80.00	--	H,S	--	1200	--	--
130-094-23ADD	SCHNEIDER, E	--	60	--	5	--	--	--	H,S	--	700	--	--
130-095-01CDC	SEIFERT, M	100	100	--	4	1968	--	--	S	--	800	9.0	--
130-095-11DCC1	SCHMALTZ, M	110	110	--	6	1958	16.00	06/ /1971	H	--	1600	--	--

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130-095-11DCC2	SCHMALTZ, M	--	110	--	5	1965	20.00	--	H,S	--	1600	--	--
130-095-12BCA	SLATER, P	83	83	--	4	1963	40.00	--	S	--	700	9.0	--
130-095-12BCC	SLATER, P	--	65	--	6	1943	--	--	H,S	--	700	20.0	--
130-095-23ABB	SCHMALTZ, C	116	116	--	4	1966	--	--	S	--	950	--	--
131-091-07DAD	FRIEZ, A	91	90	--	5	1962	--	--	H,S	125TRVL	1500	--	--
131-091-10CBC	FRIEZ, T	100	100	--	4	1926	--	--	S	125TRVL	1500	--	--
131-091-10CCC	4379, NDSWC	480	408	399	2	1971	124.00	11/ /1971	U	125LDLW	1780	10.0	2450
131-091-12CCC	HOCHHALTER, T	--	110	80	5	1955	35.00	--	H,S	--	1200	--	--
131-091-13CCB	HOMERZ, A	--	345	--	4	1965	100.00	1966	H,S	125LDLW	1870	13.0	2489
131-091-15BB	1, MUEN	4304	--	--	--	1970	--	--	--	--	--	--	2468
131-091-15CCC	8345, NDSWC	560	537	527	2	1972	115.00	07/ /1972	U	125LHCK	1860	10.5	2360
131-091-18AAA	HUBER, M	--	300	--	5	1962	--	--	H,S	125LDLW	2500	--	--
131-091-22CDC	MUEN, E	--	280	--	6	1950	--	--	H,S	125LDLW	1500	--	--
131-091-26AAA	EID, E	250	250	230	4	1972	90.00	--	S	--	1420	--	--
131-091-27BBD	KIRSCHMANN, J	--	--	--	5	--	--	--	H	--	2200	--	--
131-092-05DDD	NDSWC 4970	140	125	113	2	08/20/1976	72.45	10/05/1976	U	--	--	--	--
131-092-08BBA	WINDMUELLER, M	202	202	180	5	1963	140.00	1966	H,S	125TRVL	3080	11.0	--
131-092-10BBC	HUETHER, A	91	91	--	4	1969	40.00	--	H,S	125TRVL	2100	--	--
131-092-11ABC	ZENT, R	125	125	117	5	1966	60.00	--	H,S	125TRVL	2600	--	2465
131-092-11BBC	ZENT, W	160	160	133	6	1966	60.00	--	H,S	--	2500	--	--
131-092-12DAA	HUBER, G	--	130	--	6	1930	--	--	H,S	--	2300	--	--
131-092-14DAD1	GUPMAN, P	--	17	6	36	1947	--	--	S	125TRVL	400	--	--
131-092-14DAD2	GUPMAN, P	--	46	25	24	1967	28.00	07/ /1970	H	125TRVL	600	--	--
131-092-14DDA	GUPMAN, PHILIP	36	36	26	4	01/20/1973	21.00	01/20/1973	U	--	--	--	--
131-092-20DAD	BALES, V	--	109	--	4	1968	70.00	--	H,S	--	2000	--	--
131-092-26CBC	HULGARD, C	--	230	215	6	1968	180.00	1969	S	--	2200	--	--
131-092-32AAA1	SWENSON, O	--	130	--	6	1951	90.00	--	H	--	3200	--	--
131-092-32AAA2	SWENSON, ORVILLE	138	138	98	4	08/21/1975	75.00	08/21/1975	H	--	3300	12.0	--
131-092-35BCB	HOLGARD, DON	143	143	122	4	12/ /1973	70.00	12/ /1973	H	--	3310	12.0	--
131-092-35BCC	HOLGARD, D	--	180	--	6	--	--	--	H,S	--	2500	--	--
131-093-07AAA1	BADER, P	--	105	--	5	1960	--	--	H,S	125TRVL	1500	--	--
131-093-07AAA2	BADER, P	95	95	--	4	1963	--	--	S	125TRVL	1950	8.0	--
131-093-10AAA	HELLAND, J	126	122	91	4	1964	--	--	S	125TRVL	2020	--	--
131-093-12DCD	HELLAND, J	--	244	224	5	1963	170.00	1964	S	--	1500	--	--
131-093-21AAA1	8346, NDSWC	475	334	322	2	1972	163.00	07/ /1972	U	125LDLW	1600	11.5	2549
131-093-21AAA2	8346A, NDSWC	--	253	247	1	1972	174.00	07/ /1972	U	125LDLW	1630	10.5	2552
131-093-21AAA3	8346B, NDSWC	--	143	137	1	1972	72.00	07/ /1972	U	125TRVL	3500	11.0	2549
131-094-06CDC	QUAMME, B	--	60	--	6	1916	28.00	--	H,S	125TRVL	1600	--	--
131-094-07DAA	WEST, F	101	101	--	5	1964	48.00	--	S	--	1430	--	--
131-094-13CCD	ULLMAN, J	--	40	--	6	--	--	--	H,S	125TRVL	--	--	--

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131-094-20C8C1	4312, NDSWC	1280	1045	--	--	1971	201.00	07/ /1971	U	211MCFH	1930	19.0	2500
131-094-20C8C2	NDSWC 4386	540	537	525	2	1971	82.00	11/ /1971	U	125LMCK	2020	9.5	2500
131-094-20C8C3	NDSWC 4386A	240	224	208	1	1971	62.00	11/ /1971	U	125LDLW	1590	9.5	2500
131-094-20CCB	JR., A.ROSE	--	--	--	6	--	--	--	H,S	--	900	--	--
131-094-24ADD	GREENE, G	95	95	63	6	1968	--	--	H,S	--	3900	--	--
131-094-32BBB	BELLWOOD, L	--	50	--	6	1930	12.00	--	S	125TRVL	1100	--	--
131-095-02BBB	ERICKSON, L	90	90	23	4	1972	40.00	--	S	--	1760	--	--
131-095-02DBB	ERICKSON, L	120	120	80	--	1972	65.00	--	S	--	1180	--	--
131-095-10ABB	FORDAHL, A	101	101	--	5	1963	--	--	H	125TRVL	2900	--	--
131-095-10D8A	FORDAHL, N	--	80	70	6	1948	40.00	--	H,S	125TRVL	800	--	--
131-095-12BAB1	HALLEN, O	--	56	--	6	1925	--	--	H,S	125TRVL	800	--	--
131-095-12BAB2	HALLEN, O	--	50	--	6	1932	--	--	H	125TRVL	900	--	--
131-095-15DCC	TRUNKHILL, E	63	63	--	4	1961	--	--	S	125TRVL	1140	9.0	--
131-095-22BAA	TRUNKHILL, E	--	31	20	6	1947	18.00	--	H	125TRVL	2160	--	--
131-095-24CBC	ERICKSON, A	102	102	--	6	1945	60.00	--	H,S	125TRVL	1400	--	--
131-095-27CCB	DAVIDSON, M	125	125	100	6	1945	--	--	H,S	125TRVL	1640	12.0	--
132-091-04CDA	KELSCH, F.	--	165	--	4	1942	30.00	--	H	125TGRV	--	--	2436
132-091-10CCA	KIBBEL, A.	--	8	0	60	--	6.00	--	H,S	125SNLB	--	--	2428
132-091-12CDC	HEIPEL, A.	--	111	111	4	1916	14.00	08/ /1967	U	125TGRV	--	--	2415
132-091-14AAB	SCHAFER, K.	--	202	122	4	1964	125.00	--	H,S	125TGRV	1460	9.0	2439
132-091-17DDC	KILZER, W.	--	160	--	3	1917	80.00	--	H,S	125TGRV	--	9.5	2540
132-091-18CDD1	HUETHER, M.	--	265	--	4	1916	100.00	--	U	125TGRV	--	--	2558
132-091-18CDD2	HUETHER, M.	--	260	260	4	1952	--	--	H	125TGRV	--	--	2557
132-091-20BBB	MATTIS, W.	--	135	--	2	1950	30.00	--	U	125TGRV	--	--	2550
132-091-21ACC	KILZER, E.	--	304	304	4	1949	120.00	--	H,S	125TGRV	--	--	2550
132-091-21BBB	KILZER, WERNER	78	78	38	4	12/13/1973	42.00	12/13/1973	S	--	1290	10.0	--
132-091-21DDD	EAGLE BUTTE SCH	--	180	164	4	1968	110.00	--	H	125TGRV	--	--	2545
132-091-23AAC	SCHAFER, G.	--	255	225	6	1951	140.00	--	S	125TGRV	--	--	2550
132-091-23ADA	SCHAFER, G.	--	110	--	6	1916	48.00	--	H,S	125TGRV	--	10.5	2530
132-091-24ABC	SCHAFER, G.	--	60	--	6	1922	10.00	--	S	125BBTR	--	--	2580
132-091-24CDC1	SCHAFER, E.	--	60	60	4	--	30.00	--	S	125BBTR	--	11.0	--
132-091-24CDC2	SCHAFER, E.	--	60	60	4	1957	28.00	--	H	125BBTR	--	--	--
132-091-24CDC3	SCHAFER, E.	--	253	253	4	1962	50.00	--	H	125TGRV	--	--	--
132-091-26AAB	ULRICH, ARNOLD	140	140	110	4	08/07/1974	--	--	U	--	--	--	--
132-091-26ABA	ULRICH, J.	--	138	--	4	1964	18.00	--	H,S	125TGRV	--	11.0	2580
132-091-27DBB	FRIEZ, A.	--	300	--	4	1954	100.00	--	H	125TGRV	--	--	2590
132-091-28BCC	REICHERT, A.	--	275	275	6	1915	20.00	--	H,S	125TGRV	--	--	2500
132-091-28DDD	NDSWC 3627	1420	1050	1030	4	08/26/1968	290.00	10/11/1968	U	211FXHL	--	--	2469
132-091-30DAA	BROWN, L.	--	154	114	6	--	84.00	--	H,S	125TGRV	--	--	2510
132-091-34CAA	BONNET, J.	--	80	86	6	1948	40.00	--	H,S	125TGRV	--	--	2510

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132-092-02CCC	SCHULZ, P.	--	220	--	4	1963	135.00		--	H,S	125TGRV	--	--	2555
132-092-06DDD1	SUTNIK, E.	--	193	193	5	--	80.00		--	S	125TGRV	--	--	2556
132-092-06DDD2	SUTNIK, E.	--	185	185	6	1963	60.00		--	H	125TGRV	--	--	--
132-092-06DDD3	SUTNIK, EMANUEL	190	190	170	4	08/12/1972	135.00		08/12/1972	H,S	--	1950	10.0	--
132-092-07ADD	SWINDLER, M.	68	0	--	--	--	--		--	U	125TGRV	--	--	2520
132-092-08DDD	USGS	160	146	128	2	08/19/1976	21.63	R	11/22/1976	U	125TGRV	2620	9.0	2510
132-092-09AAA	SCHULZ, N.	--	225	--	5	--	--		--	S	125TGRV	1520	9.0	2569
132-092-10CCB	THORESUN, C.	--	100	100	3	1920	16.00		--	H,S	125TGRV	--	7.5	--
132-092-11BBB	SCHULZ, P.	--	225	--	6	1913	64.00		--	S	125TGRV	--	--	--
132-092-15BCB	SCHULZ, A.	--	125	--	4	--	85.00		--	H,S	125TGRV	876	--	2528
132-092-15CCC	3713, NDSWC	--	80	--	--	1969	59.00		--	U	BEDROCK	--	--	2566
132-092-18ABB	KJUS, N.	--	20	20	6	--	10.00		--	H	125SBTR	--	8.0	2500
132-092-18ADD	KJUS, L.	--	65	--	--	1956	50.00		--	U	125SBTR	--	--	2520
132-092-19DBB	BUTLER, L.	--	100	100	4	--	15.00		--	S	125TGRV	--	8.5	2490
132-092-21DDD2	3714A, NDSWC	--	70	67	1	1969	11.00		06/ /1969	U	125TGRV	924	7.5	2460
132-092-21DDD1	3714, NDSWC	--	310	--	--	1969	--		--	U	--	--	--	2460
132-092-23CAC1	BOLTO, H.	--	66	--	4	1934	20.00		--	S	125TGRV	--	13.5	2490
132-092-23CAC2	BOLTO, H.	--	80	0	18	1956	16.00		--	H	125TGRV	--	--	--
132-092-24AAA	3672, NDSWC	200	174	168	1	1968	108.00		12/ /1968	U	125TGRV	1610	7.0	2559
132-092-24CDD	KUM, P.	--	180	--	6	1922	--		--	U	125TGRV	--	--	--
132-092-26ACC	ZENT, L.	--	44	--	6	1956	10.00		--	S	125SBTR	--	9.0	2490
132-092-26DCD1	ZENT, L.	--	80	80	3	1927	27.00		10/ /1967	U	125TGRV	--	--	2495
132-092-26DCD2	ZENT, L.	--	120	--	6	1953	90.00		--	H,S	125TGRV	--	--	--
132-092-28BCB	USGS	80	60	54	2	08/20/1976	1.52	R	11/22/1976	U	125TGRV	4000	10.0	2455
132-092-28BCC1	ZENT, J.	--	30	30	3	1933	10.00		--	S	125SBTR	--	8.5	2480
132-092-28BCC2	ZENT, J.	--	315	315	4	1963	70.00		--	H	125TGRV	--	--	--
132-092-28DCD1	SWINDLER, J.	--	--	--	--	--	--		--	U	125SBTR	3700	--	2462
132-092-28DCD2	SWINDLER, J.	--	69	34	5	1960	20.00		--	U	125SNLB	--	--	2462
132-092-30AAA1	BUTLER, L.	--	120	120	4	1949	14.00		10/ /1967	H	125TGRV	--	--	2480
132-092-30AAA2	BUTLER, L.	--	65	65	4	1950	20.00		--	S	125TGRV	--	10.5	--
132-092-30CAA	BUTLER, L.	--	400	400	4	--	3.00		--	S	125TGRV	--	8.5	2480
132-092-31DAD1	BUTLER, O.	--	50	50	6	--	25.00		--	U	125SBTR	--	--	2510
132-092-31DAD2	BUTLER, O.	--	250	250	5	1951	160.00		--	H	125TGRV	--	--	2510
132-092-31DAD3	BUTLER, O.	--	50	50	5	1960	25.00		--	S	125SBTR	--	8.5	2510
132-092-32ACC1	JOHNSON, E.	--	126	85	3	1929	30.00		--	H,S	125SNLB	--	8.5	2510
132-092-32ACC2	JOHNSON, E.	--	122	100	4	1967	30.00		--	H	125SNLB	--	--	2510
132-092-32CDB1	JOHNSON, R.	--	80	80	4	--	40.00		--	U	125TGRV	--	--	--
132-092-32CDB2	JOHNSON, R.	--	115	85	4	1952	40.00		--	H,S	125TGRV	--	--	--
132-092-34BAA1	FRIEZ, L.	--	80	80	3	1927	30.00		--	H,S	125SBTR	--	--	2510
132-092-34BAA2	FRIEZ, LESLIE	80	58	28	4	07/11/1975	35.00		07/11/1975	H	--	1200	11.5	--

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132-092-35BBB	FRIEZ, LESLIE	46	46	26	4.50	05/29/1980	6.00		05/29/1980	S	--	--	--	--
132-093-08BBB	MILLER, F.	--	120	--	6	--	18.00		--	H,S	125TGRV	--	--	2555
132-093-09DDA	SPRECHER, G.	--	120	120	6	--	45.00		--	H,S	125TGRV	--	--	2532
132-093-10CCC1	USGS	160	104	98	2	08/19/1976	38.92	Z	11/09/1976	U	125TGRV	--	--	2525
132-093-10CCC2	USGS	36	36	30	2	08/19/1976	16.29	Z	11/09/1976	U	125TGRV	--	--	2525
132-093-13ABB	LINDEMANN, A.	--	192	--	4	1915	132.00		--	H,S	125TGRV	--	10.0	2540
132-093-14DDD	HAGLER, R.	--	180	--	4	1929	18.00		--	H,S	125TGRV	--	--	2486
132-093-18AAC	GREEN, H.	--	140	--	4	1947	100.00		--	H,S	125TGRV	--	--	2542
132-093-20BBB	SPRECHER, A.	--	130	--	4	1949	50.00		--	H,S	125TGRV	--	--	2542
132-093-21BBB	USGS	60	61	55	2	08/19/1976	16.53	R	11/09/1976	U	125TGRV	2700	--	2510
132-093-21DAB	ANDERSON, E.	--	28	--	36	1938	17.00		--	H	125SNLB	--	9.3	2540
132-093-22BCB1	3525, NDSWC	--	900	--	5	1967	--		--	U	125TGRV	--	--	2514
132-093-22BCB2	RUTH, ROY	78	78	58	4	10/17/1975	28.00		10/17/1975	H	--	1600	11.0	--
132-093-22BCC	RUTH, R.	--	70	60	4	1957	20.00		--	H	--	--	--	2520
132-093-22CBB	RUTH, R.	--	70	60	4	1912	30.00		--	S	125SNLB	--	10.0	2520
132-093-23BAB1	RANCH, GRANT	--	150	--	--	--	--		--	U	125TGRV	--	--	2500
132-093-23BAB2	RANCH, GRANT	--	82	62	4	1964	35.00		--	H	125TGRV	4330	10.0	2500
132-093-24BAA	RANCH, GRANT	--	82	--	3	--	13.00		08/ /1967	U	125TGRV	--	--	2472
132-093-28BCB1	WATSON, H.	--	164	164	4	--	20.00		--	H,S	125TGRV	--	--	2514
132-093-28BCB2	WATSON, H.	--	162	147	4	1966	51.00		--	H	125TGRV	1490	--	2514
132-093-28CBC	HUGHES, G.	--	183	141	4	1966	80.00		--	H,S	125TGRV	--	--	2537
132-093-33ABB	LARSON, VERNON	221	220	190	4	05/26/1973	180.00		05/26/1973	S	--	800	11.0	--
132-093-34ADA	HARDMEYER, C. & G.	--	100	70	4	1968	52.00		--	H	125SNLB	--	--	2524
132-093-34ADD1	HARDMEYER, G.	--	110	--	4	1944	45.00		--	H	125TGRV	--	11.0	2530
132-093-34ADD2	HARDMEYER, G.	--	32	32	18	--	13.00		--	S	125SNLB	--	--	--
132-093-34ADD3	HARDMEYER, G.	--	19	15	5	1966	--		--	S	125SNLB	--	11.6	2527
132-093-34DAA1	HARDMEYER, G.	--	33	12	6	1966	9.00		--	S	125SNLB	--	--	2544
132-093-34DAA2	HARDMEYER, GEORGE	111	111	91	4	05/04/1972	76.00		05/04/1972	S	--	1390	12.0	--
132-093-36BBB	HARDMEYER, G.	--	150	--	6	--	--		--	U	125TGRV	--	--	--
132-093-36DAD	HARDMEYER, G.	--	81	--	6	--	28.00		08/ /1967	U	125TGRV	--	--	2501
132-094-02CDD	1ST NATL BANK TR	--	75	--	5	1910	51.00		10/ /1967	U	125TGRV	--	--	2570
132-094-09CDD	TR., P.MCKENNA	--	70	70	6	1935	50.00		--	S	125TGRV	--	8.5	2593
132-094-10DAA	POTTER, M.	--	85	85	--	--	--		--	U	125TGRV	--	--	2583
132-094-11ADD	MILLER, P.	--	50	50	5	--	15.00		--	S	125TGRV	--	7.7	2550
132-094-11BCC	MILLER, P.	--	110	--	6	1948	60.00		--	H,S	125TGRV	--	--	2592
132-094-15BBB1	3715, NDSWC	200	145	137	1	1969	46.00		06/ /1969	U	125TGRV	569	8.5	2576
132-094-15BBB2	3715A, NDSWC	200	40	37	1	1969	18.00		06/ /1969	U	125SNLB	--	7.0	2576
132-094-15CDC	BUCHANAN, E.	--	80	80	--	--	--		--	H	125TGRV	--	8.5	2610
132-094-16DBC	BRATCHER, I.	--	90	90	4	1938	50.00		--	S	125TGRV	--	9.5	2618
132-094-17CDD	BRATCHER, I.	--	150	150	6	--	60.00		--	H,S	125TGRV	--	8.0	2665

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
132-094-18AAA1	SVIHOVEC, R.	--	128	--	--	--	--		--	S	125TGRV	--	11.6	2650
132-094-18AAA2	SVIHOVEC, R.	--	81	21	4	1961	45.00		--	S	125SNLB	--	--	2645
132-094-20BAA	BRAICHER, I.	--	150	150	6	1908	60.00		--	H,S	125SBTR	--	--	2662
132-094-20CCC	HUFNINK, R.	--	102	102	5	1959	76.00		--	H,S	125SBTR	--	--	2680
132-094-21AAA	HTGR.SCH.DIST.7.	--	80	80	--	1949	40.00		--	H	125SBTR	--	9.5	2620
132-094-21BAC	BRAICHER, I.	--	47	47	6	1922	40.00		--	S	125SNLB	--	--	2670
132-094-22BAA	BRAICHER, I.	--	70	70	6	--	40.00		--	H	125SBTR	--	9.0	2600
132-094-24DBB1	LINCE, B.	--	180	180	6	1918	35.00		--	U	125TGRV	--	--	2610
132-094-24DBB2	LINCE, B.	--	200	200	--	1951	--		--	H	125TGRV	--	8.5	2610
132-094-25AAA	USGS	40	33	27	2	08/19/1976	6.77	R	11/09/1976	U	125TGRV	--	--	2540
132-094-29CCC	3673, NDSWC	285	204	198	1	1968	75.00		10/ /1969	U	125TGRV	1490	10.5	2604
132-094-29DAA1	SCHNEIDER, H.	--	50	50	--	1959	--		--	S	125SBTR	--	9.0	2660
132-094-29DAA2	SCHNEIDER, H.	--	70	70	6	1964	--		--	H,S	125SBTR	--	--	--
132-094-29DAA3	SCHNEIDER, H.	--	50	50	--	1965	39.00		10/ /1967	S	125SBTR	--	9.0	2630
132-094-30DDA	SCHNEIDER, H.	--	80	--	16	--	53.00		10/ /1967	U	125TGRV	--	--	2660
132-094-32CBB1	POWELL, V.	--	16	16	30	--	11.00		10/ /1967	H	125SNLB	--	--	2595
132-094-32CBB2	POWELL, V.	--	65	--	6	1928	20.00		--	S	125SBTR	--	8.5	--
132-094-32CBB3	POWELL, V.	--	113	113	6	1959	56.00		10/ /1967	H	125TGRV	--	--	2595
132-094-32DAD	ZIMMERMAN, E.	--	--	--	6	--	26.00		10/ /1967	U	125SBTR	--	--	2640
132-095-03CCC	ANDERSON, E	--	142	--	--	1915	40.00		--	H,S	--	2700	--	--
132-095-12DCD	SVIHOVEE, L	--	140	--	6	1931	--		--	H,S	125TRVL	2550	--	--
133-090-05BCD1	--	--	80	--	4	1961	65.00		--	H,S	--	--	--	--
133-090-05BCD2	--	--	75	--	4	1968	65.00		--	S	--	--	9.5	--
133-090-07ABB	--	--	80	--	4	1963	18.00		--	H,S	--	--	--	--
133-090-08BDB	--	--	25	--	--	--	--		--	H,S	--	--	--	--
133-090-09BCA2	--	--	34	--	24	1955	15.00		--	H	--	--	--	--
133-090-09BCA3	--	--	38	--	24	1960	15.00		--	S	--	--	--	--
133-090-20BAA	--	--	150	--	4	1956	--		--	S	--	--	--	--
133-090-28CBD	--	--	100	--	3	1920	--		--	H	--	--	--	--
133-090-30CDD1	--	--	180	--	--	--	60.00		--	S	--	--	--	--
133-090-30CDD2	--	--	100	--	5	1952	50.00		--	S	--	--	9.0	--
133-090-30CDD3	--	--	140	--	5	1947	46.00		09/ /1971	H	--	--	--	--
133-090-30DCA	--	--	160	--	4	1968	17.00		--	H	--	--	--	--
133-090-30DCA2	--	--	120	--	--	--	30.00		--	S	--	--	--	--
133-091-01BBD	WRUCK, W.	--	121	61	4	1963	30.00		--	H,S	125TGRV	500	10.6	2322
133-091-01DCC	WRUCK, W.	--	152	--	5	1965		F	--	H	125TGRV	--	--	2281
133-091-01DCD	WRUCK, W.	--	160	--	5	1954		F	--	S	125TGRV	--	--	2282
133-091-02DBB	LEMKE, L.	--	86	43	4	1963	58.00		--	U	125SNLB	--	--	2368
133-091-02DCC	LEMKE, E.	--	70	--	4	1952	--		--	H	125TGRV	--	--	2338
133-091-04BCB	BICBER, R.	--	101	64	4	1963	54.00		--	S	125TGRV	--	8.0	2366

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133-091-04BCC1	BICBER, R.	--	87	87	4	--	41.00		11/ /1967	U	125TGRV	--	--	2376
133-091-04BCC2	BICBER, R.	--	18	0	24	--	12.00		11/ /1967	U	125SNLB	--	5.0	2376
133-091-04BCC3	BICBER, R.	--	400	--	--	--	--		--	U	125CNBL	--	--	2376
133-091-05CBB	ZENTNER, R.	--	87	71	4	1964	23.00		--	H	125TGRV	--	--	2382
133-091-06AAB	SCHLOSSAR, A.	--	36	--	4	1967	--		--	H	125SNLB	--	9.0	2390
133-091-06ACD1	MEULER, E.	--	30	30	5	1958	--		--	H	125SBTR	--	--	--
133-091-06ACD2	MEULER, E.	--	90	90	5	1963	30.00		--	S	125TGRV	--	8.5	--
133-091-06CC8	MERNER, S.	--	110	--	4	1950	--		--	S	125TGRV	--	--	2375
133-091-07AAD1	AUCH, E.	--	30	0	30	--	20.00		--	U	125TGRV	--	--	--
133-091-07AAD2	AUCH, E.	--	90	90	6	1967	82.00		--	S	125TGRV	--	9.5	--
133-091-07BCB	BERTSCH, A.	--	20	--	--	1963	8.00		--	S	125TGRV	--	9.5	--
133-091-08ABB	PEDERSON, W.	--	31	--	2	--	19.00		06/ /1968	U	125TGRV	--	--	--
133-091-13CBC	HUBER, F.	--	196	172	4	1964	35.00		--	H	125TGRV	--	15.5	2342
133-091-14ADD	HINTZ, L.	--	70	--	5	--	--		--	S	125TGRV	--	10.0	2353
133-091-14CDD	KILZER, A.	--	160	--	2	--		F	--	H,S	125TGRV	--	--	2330
133-091-14DBC	KILZER, A.	--	161	131	1	1963	4.00		--	S	125TGRV	--	8.8	2324
133-091-15DAA	HINTZ, L.	--	--	--	4	--		F	--	S	--	--	8.5	2310
133-091-17BBB	GRUEBELE, E.	--	280	--	4	--	40.00		--	H	125TGRV	--	--	2350
133-091-18CDD1	BERTSCH, J.	--	60	60	5	--	25.00		--	H,S	125TGRV	--	--	--
133-091-18CDD2	BERTSCH, J.	--	80	80	5	1958	35.00		--	S	125TGRV	--	8.5	--
133-091-19AAA	MEIER, P.	--	160	160	3	--	30.00		--	H,S	125TGRV	--	9.5	2410
133-091-19BCD	BERN, I.	--	111	91	4	1961	25.00		--	S	125TGRV	--	--	2393
133-091-19DBD	BERN, I.	--	100	100	2	--		F	--	U	125TGRV	--	11.0	2380
133-091-20CBC	BERN, I.	--	124	--	4	--	11.00		--	H,S	125TGRV	1900	--	--
133-091-22BBB	SCHMIDT, A.	--	100	--	--	1930		F	--	H,S	125TGRV	--	8.0	2352
133-091-23BBB	HINTZ, L.	--	--	--	4	1916	18.00		--	H,S	--	--	--	2375
133-091-23CAA	HUBER, F.	--	158	158	4	1952	14.00		--	Z	125TGRV	--	--	2380
133-091-24BAB	KILZER, R.	--	201	161	4	1964	12.00		--	H	125TGRV	2110	10.6	2352
133-091-26AAA	HUMERZ, F.	--	140	140	4	1952	7.00		--	H,S	125TGRV	--	--	2357
133-091-26ADD	HUMERZ, F.	--	140	140	6	--		F	--	S	125TGRV	--	9.0	2355
133-091-26DDA	HUMERZ, F.&SON	--	140	140	6	1957		F	--	H	125TGRV	--	9.0	2371
133-091-27CCD	KRAUSE, A.	--	90	90	5	1927	20.00		--	H	125TGRV	--	8.8	2410
133-091-29ABB	HUMMEL, J.	--	151	101	1	1962		F	--	S	125TGRV	--	9.0	2386
133-091-30DDA1	KIBBEL, A.	--	400	400	2	1945	--		--	U	--	--	--	2473
133-091-30DDA2	KIBBEL, A.	--	115	95	4	1967	57.00		--	H,S	125TGRV	--	--	2473
133-091-32ABC	KIBBEL, K.	--	100	100	4	--	38.00		--	U	125TGRV	--	--	--
133-091-32BAD1	KIBBEL, K.	--	46	0	--	1905	22.00		10/ /1967	U	125TGRV	--	--	2445
133-091-32BAD2	KIBBEL, K.	--	111	111	5	1916	28.00		--	S	125TGRV	--	13.0	--
133-091-32BAD3	KIBBEL, K.	--	103	103	5	1952	30.00		--	H,S	125TGRV	--	--	--
133-091-32DAA	KIBBEL, K.	--	80	80	4	1906	38.00		10/ /1967	U	125TGRV	--	--	2490

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133-091-34BBA1	HUBER, G.	--	140	--	3	1925	35.00		--	H,S	125TGRV	--	--	2408
133-091-34BBA2	HUBER, G.	--	135	103	4	1963	20.00		--	H,S	125TGRV	--	--	2409
133-091-35AAA	KILZER, O.	--	160	160	3	1928		F	--	H	125TGRV	--	8.0	2370
133-092-01BAC1	BERTSCH, E.	--	55	--	5	1948	40.00		--	U	125TGRV	--	--	--
133-092-01BAC2	BERTSCH, E.	--	85	85	24	1967	40.00		--	H,S	125TGRV	--	--	--
133-092-01BBA	BERTSCH, E.	--	80	80	6	1952	30.00		--	S	125TGRV	--	7.5	--
133-092-01BCB	BERTSCH, E.	--	48	--	24	1967	13.00		--	S	125TGRV	--	9.0	--
133-092-05BAA1	STERN, R.	--	25	25	36	1945	20.00		--	S	125TGRV	--	9.5	2358
133-092-05BAA2	STERN, R.	--	310	282	4	1963	15.00		--	H,S	125TGRV	1720	11.7	2382
133-092-05BBB1	CURVE, THE	--	306	275	6	1950	30.00		--	C	125TGRV	--	--	2396
133-092-05BBB2	HINTZ, H.	--	340	300	4	1968	10.00		--	H	125TGRV	--	--	2402
133-092-06ACC	BLICKENSDERFER	--	60	--	--	--	--		--	H,S	125TGRV	--	--	2356
133-092-06CCC	SCHWARTZ, R.	--	145	145	3	1945	16.00		--	H,S	125TGRV	--	--	2390
133-092-07BBC1	SCHWARTZ, S.	--	125	--	4	--	25.00		--	U	125TGRV	--	8.5	2397
133-092-07BBC2	SCHWARTZ, S.	--	175	90	--	1949	25.00		--	H,S	125TGRV	--	--	2396
133-092-07DAA	MEHRER, M.	--	151	--	4	1959	--		--	H,S	125TGRV	--	12.1	2394
133-092-11CCC	BERRETH, R.	--	115	110	3	1946	30.00		--	H,S	125TGRV	--	--	--
133-092-12AUA1	BERTSCH, A.	--	8	8	4	--	7.00		--	H	--	--	--	--
133-092-12AUA2	BERTSCH, A.	--	132	132	3	1949	25.00		--	H	125TGRV	--	--	--
133-092-12AUA3	BERTSCH, A.	--	20	--	6	1967	8.00		--	S	--	--	--	--
133-092-15CCC	HUISMAN, W.	--	150	--	6	1960	25.00		--	H,S	125TGRV	--	--	--
133-092-17ACC	MEHRER, E.	--	150	--	4	1918	10.00		--	H,S	125TGRV	--	9.3	2398
133-092-18BAA	BLICKENSDEFER	--	101	58	4	1960	20.00		--	H	125TGRV	--	--	2412
133-092-19BAA	HUMMEL, J.	--	--	--	4	--	13.00		10/ /1967	U	125TGRV	--	8.5	2440
133-092-20DDD	HIKNING, R.	--	130	--	4	1916	20.00		--	U	125TGRV	--	9.5	2490
133-092-23AAA	HUMMEL, J.	--	22	--	4	--	20.00		10/ /1967	U	125TGRV	--	--	2395
133-092-24ABA1	SCHWEINFURTH, R.	--	290	160	4	1924	130.00		--	H	--	--	--	2423
133-092-24ABA2	SCHWEINFURTH, R.	--	174	174	4	1963	165.00		--	H	125TGRV	--	--	--
133-092-24BBB	MILL&ELEV., MOTT	--	--	--	3	--	24.00		10/ /1967	U	--	--	7.0	2397
133-092-25BBB	KIBBEL, O.	--	100	--	4	--	60.00		--	H,S	125TGRV	--	--	--
133-092-25DCD	KIBBEL, O.	--	195	195	4	--	52.00		--	U	125TGRV	--	--	2505
133-092-27ADC	HUISMAN, W.	--	243	199	4	1963	130.00		--	S	125TGRV	2560	15.0	2540
133-092-27DBB	KJUS, M.	--	109	--	5	1933	100.00		--	U	125SBTR	--	--	--
133-092-28AAA	HUISMAN, M.	--	200	--	6	--	--		--	S	125TGRV	--	--	--
133-092-28CAA	KJUS, E.	--	20	10	4	1960	16.00		--	U	125SNLB	--	--	--
133-092-28DAA1	KJUS, E.	--	35	0	60	1943	--		--	U	125SNLB	--	--	--
133-092-28DAA2	KJUS, E.	--	60	44	4	1948	44.00		--	H	125SBTR	1140	--	--
133-092-28DAA3	KJUS, E.	--	50	40	4	1953	34.00		--	S	125SBTR	--	--	--
133-092-29CCC1	VASEY, F.	--	275	260	3	1944	120.00		--	H,S	125TGRV	--	8.5	2572
133-092-29CCC2	USGS	240	235	223	2	08/18/1976	107.05	R	11/09/1976	U	125TGRV	1860	9.0	2560

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133-092-30BCD	BLICKENDERFER	--	22	21	24	--	14.00		11/ /1967	U	125TGRV	--	--	2460
133-092-30DAD	BLICKENDERFER	--	189	--	4	--	55.00		11/ /1967	U	125TGRV	--	--	2498
133-092-32BAD	IVERSON, E.	--	--	--	--	--	--		--	U	125SBTR	--	--	2585
133-092-32CDD	VASEY, L.	--	164	164	4	1935	116.00		10/ /1967	U	125SBTR	--	--	2570
133-092-34BAD	SUTNIK, E.	--	180	--	4	1959	12.00		10/ /1967	U	125SBTR	--	--	2550
133-092-34CDD	SUTNIK, E.	--	290	--	6	1960	80.00		--	U	125TGRV	--	9.0	2590
133-092-35CAA	THORESON, C.	--	203	157	4	1964	150.00		--	S	125TGRV	--	8.5	2585
133-092-36BCA	BERRETH, R.	--	130	130	4	--	20.00		--	S	125TGRV	--	7.5	--
133-093-01BAB	LARSON, M.	--	367	--	4	1966	110.00		--	H	125TGRV	--	--	2412
133-093-01BCB1	EMERY, H.	--	100	--	4	--	0.00		--	H,S	125TGRV	--	8.0	2373
133-093-01BCB2	EMERY, G.	--	70	--	4	--		F	--	H	125TGRV	--	--	2373
133-093-01BCC	FIEDLER, J.	--	82	--	--	--		F	--	H,S	125TGRV	--	--	2377
133-093-02AAA	HEINRICH, C.	--	314	284	5	1964	35.00		--	H	125TGRV	--	--	2378
133-093-02AAB	NO. 3, MOTT	--	402	377	10	1960	50.00		--	P	125TGRV	1910	13.3	2381
133-093-02AAD1	HEINRICH, C.	--	145	104	2	1960		F	--	S	125TGRV	--	8.8	2375
133-093-02AAD2	HEINRICH, C.	--	27	--	6	1959	--		--	U	112TKRC	--	--	2375
133-093-02ACB	WYMAN, C.	--	140	--	--	--	--		--	H	125TGRV	--	--	2385
133-093-02BAD	KAMRATH, H.	--	25	--	24	1966	--		--	H	--	4560	--	2376
133-093-03AAD	EQUITY, MOTT	--	153	146	4	1966	15.00		--	N	125TGRV	--	--	2385
133-093-03ACC1	TRAUTWEIN, R.	--	22	--	30	--	17.00		11/ /1967	S	125TGRV	--	6.5	2385
133-093-03ACC2	TRAUTWEIN, R.	--	40	--	24	1967	17.00		11/ /1967	H	125TGRV	--	--	2385
133-093-03ACD	TRAUTWEIN, R.	--	92	--	4	--	80.00		--	U	125TGRV	--	6.5	2410
133-093-03BCA	MARTIN, R.	--	250	174	4	1963	3.00		--	S	125TGRV	--	10.0	2396
133-093-04AUD	MARTIN, R.	--	73	73	4	1947	40.00		--	H	125TGRV	--	--	2420
133-093-04DAD	MARTIN, R.	--	202	142	4	1961		F	--	S	125TGRV	--	--	2417
133-093-05ACC	FRIEBOES, A.	--	142	--	1	1959		F	--	S	125TGRV	--	9.3	2400
133-093-05ADD1	FRIEBOES, A.	--	90	70	4	1951	30.00		--	H	125TGRV	1360	--	2452
133-093-05ADD2	HUMMEL, DENNIS	483	483	441	4	07/23/1973	202.00		07/23/1973	H,S	--	1900	13.0	--
133-093-05BBD	USBR	--	116	--	--	1952	12.00		10/ /1952	U	125TGRV	--	--	2425
133-093-05BDD	EVERHART, L.	--	92	--	6	--	50.00		06/ /1938	U	125TGRV	--	--	2442
133-093-05CCD	SCHAIBLE, A.	--	207	167	1	1961	2.00		--	S	125TGRV	1630	10.0	2420
133-093-07BCA	SCHAIBLE, B.	--	220	--	4	1962	2.00		--	S	125TGRV	--	--	2442
133-093-09AAA	ROEMMICH, J.	--	180	130	4	--	8.00		--	H,S	125TGRV	--	--	2422
133-093-10AAB	KOLLER, M.	--	120	--	4	1920	9.00		--	H,S	125TGRV	--	--	2420
133-093-10ABB1	BIABER, R.	--	200	200	5	--	6.00		--	S	125TGRV	--	8.0	2422
133-093-10ABB2	BIABER, R.	--	187	187	5	1942	20.00		--	H,S	125TGRV	--	--	2420
133-093-10ABB3	BIEBER, RAY	443	405	390	4	05/27/1973	160.00		05/27/1973	H	--	1880	15.0	--
133-093-10CCB	ROEMMICH, S.	--	60	60	4	--	36.00		11/ /1967	U	125TGRV	--	--	2450
133-093-10CDD1	FIEDLER, R.	--	140	140	3	1947	0.00		10/ /1967	U	125TGRV	--	--	2445
133-093-10CDD2	FIEDLER, R.	--	50	--	6	1965	20.00		--	H,S	125TGRV	--	--	2436

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	SPECIFIC CONDUCTANCE (UMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
133-093-11AAA	HEINRICH, C.	--	180	180	5	--	20.00		--	S	125TGRV	--	--	2412
133-093-11DDC	HEINRICH, C.	--	82	42	4	1963	5.00		--	S	125TGRV	--	8.6	2412
133-093-12ADB	BERRETH, K.	--	160	160	4	1927	25.00		--	H,S	125TGRV	--	7.1	2405
133-093-12BCC	MUSHEN, N.	--	260	--	--	--	--		--	H	125TGRV	--	--	2403
133-093-13AAC	BERRETH, K.	--	30	30	24	--	10.00		--	S	125TGRV	--	7.0	2415
133-093-13CCC	3711, NDSMC	--	300	--	--	1969	--		--	U	BEDROCK	--	--	2475
133-093-14BBB	AUER, H.	--	180	--	8	1909	170.00		--	H	125TGRV	--	--	2435
133-093-14CBB1	GREEN, C.	--	180	180	6	--	--		--	U	125TGRV	--	--	2445
133-093-14CBB2	LARSON, MONTY	158	158	138	1.25	07/16/1974		F	--	S	--	1900	11.5	--
133-093-14DDA	MEHREN, A.	--	82	80	5	1915	17.00		--	H,S	125TGRV	--	--	2463
133-093-15ADD	GREEN, C.	--	180	180	6	--	6.00		--	H,S	125TGRV	--	7.0	2438
133-093-15BAA	FIEDLER, R.	--	30	--	18	1944	20.00		--	S	125TGRV	--	--	2430
133-093-16DDD	MEHREN, ARNOLD	98	98	78	4	08/08/1972	40.00		08/08/1972	S	--	1620	13.0	--
133-093-17AAA	SALLE, M.	--	--	--	--	--	48.00		10/ /1967	S	125SBTR	--	9.0	2485
133-093-18ADB	KAMRATH, D.	--	197	--	4	--	30.00		--	U	125TGRV	--	10.0	2475
133-093-18CDD	SCHMITT, O.	--	80	36	4	1963	20.00		--	H,S	125TGRV	--	--	2488
133-093-18DDD	SCHMITT, OTTO	216	216	186	4	04/30/1973	110.00		04/30/1973	S	--	--	--	--
133-093-21AAD1	SWINDLER, H.	--	580	--	4	--	490.00		--	H	--	--	--	2550
133-093-21AAD2	SWINDLER, R.	--	146	106	4	1964	65.00		--	S	125TGRV	--	--	2550
133-093-22DAA	KEMINGTON, K.	--	98	100	6	1911	35.00		--	H,S	125TGRV	--	8.0	2485
133-093-24CCC1	HANSCH, J.	--	160	--	4	--	60.00		--	U	125TGRV	--	--	2508
133-093-24CCC2	HANSCH, J.	--	140	130	4	1968	67.00		--	H,S	125TGRV	--	--	2508
133-093-26AAA	3526, NDSMC	200	128	108	1	1967	59.00		11/ /1967	U	125TGRV	1390	8.5	2505
133-093-26AUD	SCHAIBLE, OSCAR	462	462	404	4	04/25/1974	105.00		04/25/1974	H	--	760	17.0	--
133-093-26CBB1	LARSON, S.	--	70	70	6	1957	50.00		--	S	125SBTR	--	8.0	2638
133-093-26CBB2	LARSON, S.	--	218	--	4	1957	200.00		--	H,S	125TGRV	--	7.5	2640
133-093-27ABC	SWINDLER, J.	--	90	90	4	--	20.00		--	H,S	--	--	7.5	2555
133-093-28AAB	SPRECHER, A.	--	80	80	6	--	--		--	H,S	125TGRV	--	--	2538
133-093-28BAC	SPRECHER, A.	--	195	--	--	1950	--		--	S	125TGRV	--	--	2640
133-093-30BAA	WILLKUM, L.	--	90	--	4	1906	80.00		--	U	125SBTR	--	--	2576
133-093-30CDC	DUMJAHN, C.	--	40	30	4	1967	18.00		--	H,S	125SBTR	--	--	2545
133-093-31BAA	DUMJAHN, C.	--	62	37	4	1964	9.00		--	S	125SNLB	--	8.2	2550
133-093-31BCC	MEHREN, A.	--	82	52	4	1964	40.00		--	S	125TGRV	--	--	2550
133-093-32AAC	SPRECHER, H.	--	120	--	6	1964	15.00		--	H,S	125SBTR	--	11.6	2623
133-093-34BCC1	SWINDLER, J.	--	110	110	4	--	98.00		--	H,S	125SBTR	--	8.5	2608
133-093-34BCC2	SWINDLER, J.	--	100	100	4	1957	75.00		--	S	125SBTR	--	7.5	2590
133-093-34BCC3	SWINDLER, J.	--	560	--	4	1959	--		--	H	--	--	--	2604
133-093-34CBB1	SWINDLER, M.	--	550	--	4	1949	530.00		--	H	--	--	--	2602
133-093-34CBB2	SWINDLER, M.	--	120	74	4	1964	78.00		--	I	125SBTR	--	--	2602
133-093-34DCC	HALBETT, L.	--	76	--	6	--	60.00		--	H	125SBTR	--	--	2573

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133-094-34ABD	FIEDLER, W.	--	68	--	5	--	--	--	Z	125SBTR	--	--	2610
133-095-01BBB1	SCHAUER, L.	--	85	--	18	1928	63.00	11/ /1967	U	125TGRV	--	--	2580
133-095-01BBB2	SCHAUER, L.	--	90	90	4	1958	75.00	--	H	125TGRV	--	--	--
133-095-02BBB	KRUGM, C.	--	350	295	4	1960	55.00	--	H,S	125TGRV	--	--	2567
133-095-02BCB	KRUGM, C.	--	110	110	5	1945	50.00	--	U	125TGRV	--	--	--
133-095-04CDD	WAGENDORF, D.	--	18	--	24	1958	9.00	11/ /1967	S	125SNLB	--	8.0	2595
133-095-05DAA	NETZER, D.	--	60	--	6	1915	--	--	U	125TGRV	--	--	2545
133-095-08DCC1	HEGGE, I.	--	130	--	4	1912	52.00	11/ /1967	H	125TGRV	--	8.0	2570
133-095-08DCC2	HEGGE, I.	--	160	155	5	1957	53.00	11/ /1967	U	125TGRV	--	--	2570
133-095-10DAA1	ANDERSON, J.	--	60	--	6	--	30.00	--	H	125TGRV	--	--	2586
133-095-10DAA2	ANDERSON, J.	--	182	89	4	1962	20.00	--	S	125TGRV	--	8.8	2586
133-095-11DDD1	STRAND, T.	--	135	--	4	1945	--	--	H	125TGRV	--	--	2620
133-095-11DDD2	STRAND, T.	--	192	112	3	1961	70.00	--	S	125TGRV	2360	9.5	2620
133-095-13AAB	STRAND, T.	--	51	11	4	1961	8.00	--	S	125SNLB	--	--	2555
133-095-19DDD	3674, NDSAC	300	214	208	1	1968	81.00	12/ /1968	U	125TGRV	--	10.5	2648
133-095-21AAA	HAGBOM, L.	--	65	--	2	1957	--	--	U	125SBTR	--	--	2625
133-095-22BAA1	HAGBOM, L.	--	100	--	2	1962	75.00	--	H	125SBTR	--	--	2630
133-095-22BAA2	HAGBOM, L.	--	100	--	2	1965	75.00	--	H,S	125SBTR	--	8.5	--
133-095-22DDD	HACKERSON, L.	--	135	--	6	1910	--	--	S	125TGRV	--	--	2670
133-095-24ADD1	OLSON, O.	--	180	--	6	--	120.00	--	H,S	125TGRV	--	--	2634
133-095-24ADD2	OLSON, O.	--	210	--	4	1965	100.00	--	S	125TGRV	--	--	2634
133-095-24BBC1	OLSON, W.	--	92	62	4	1962	45.00	--	H,S	125SNLB	--	--	2634
133-095-24BBC2	OLSON, W.	--	132	102	4	1966	55.00	--	H,S	125TGRV	--	--	2634
133-095-26AAA	DUNNER, CARL	161	161	126	4	06/15/1974	71.00	06/15/1974	H,S	--	2350	17.0	--
133-095-26AAD1	DUNNER, C.	--	130	--	6	1911	90.00	--	U	125SBTR	--	--	2664
133-095-26AAD2	DUNNER, C.	--	161	--	4	1961	80.00	--	H,S	125TGRV	1380	8.5	2654
133-095-26BBC	MUETHER, H.	--	150	--	6	1913	30.00	--	H	125TGRV	--	--	--
133-095-26CBC1	ANDERSON, M.	--	50	50	18	--	30.00	--	H	125SBTR	--	--	2670
133-095-26CBC2	ANDERSON, M.	--	220	220	5	--	80.00	--	U	125TGRV	--	--	2670
133-095-26CBC3	ANDERSON, M.	--	530	530	4	--	300.00	--	H	--	--	--	2670
133-095-29BCB	OBERLANDER, H.	--	186	--	6	1913	--	--	U	125TGRV	--	8.5	2660
133-095-30AAA	KIRSCHEMANN, C.	--	155	--	6	--	75.00	--	U	125TGRV	--	--	--
133-095-32CCC1	ESTATE, C.ADLF	--	228	165	4	1928	75.00	--	H	125TGRV	--	--	2695
133-095-32CCC2	ESTATE, C.ADLF	--	--	--	4	1958	75.00	--	S	125SBTR	--	--	--
133-095-34AAD	HAGEN, L.	--	230	--	--	1910	100.00	--	--	--	--	7.5	--
133-096-02AAB	JACOBS, G.	--	112	112	5	1954	60.00	--	S	125TGRV	--	8.0	2650
133-096-02ABA	JACOBS, G.	--	96	96	18	1947	55.00	--	H,S	125SBTR	--	--	2640
133-096-04AUD	THORSGAARD, L.	--	105	--	6	1911	60.00	--	H,S	125SBTR	--	7.0	2725
133-096-04BCC	STANG, L.	--	300	--	6	--	250.00	--	S	125TGRV	--	--	--
133-096-06BAB	ZENKER, W.	--	212	210	5	1939	125.00	--	H,S	125TGRV	2170	--	2770

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133-096-06DDD	LIEN, H.	--	125	125	6	1914	30.00	--	H,S	125SBTR	--	--	--
133-096-08CDD	SHERN, E.	--	150	150	6	1932	130.00	--	H	125SBTR	--	4.5	2740
133-096-09BCD	LIEN, O.	--	200	200	6	1960	150.00	--	H,S	125TGRV	--	--	2780
133-096-10AAB1	HOVLAND, H.	--	140	--	6	1911	72.00	--	H,S	125TGRV	--	5.5	2672
133-096-10AAB2	HOVLAND, H.	--	181	157	4	1968	32.00	--	H,S	125TGRV	--	11.0	2672
133-096-10BBB	STANG, W.	--	141	--	4	1961	50.00	--	S	125TGRV	2910	7.8	2673
133-096-10BBC1	STANG, W.	--	130	130	4	1912	100.00	--	S	125TGRV	--	--	2695
133-096-10BBC2	STANG, W.	--	130	130	4	1950	80.00	--	H	125TGRV	--	--	--
133-096-10CCC	OLSON, A.	--	144	144	5	1910	100.00	--	H	125TGRV	--	6.5	--
133-096-11AAD	JACOBS, A.	--	91	56	4	1962	50.00	--	H,S	125TGRV	--	--	2611
133-096-15BCC1	KIRSCHEMANN, F.	--	145	--	6	1925	90.00	--	Z	125TGRV	--	--	2678
133-096-15BCC2	KIRSCHEMANN, F.	--	140	117	4	1966	99.00	--	S	125TGRV	--	10.0	2678
133-096-18AAA	SHERN, E.	--	130	130	6	1928	--	--	U	--	--	--	2710
133-096-18DDD1	WOLF, H.	--	87	--	12	--	53.00	11/ /1967	U	125TGRV	--	--	2685
133-096-18DDD2	WOLF, H.	--	70	--	12	--	30.00	11/ /1967	U	125TGRV	--	--	2685
133-096-21ABB	SWINDLER, L.	--	15	0	60	1919	7.00	11/ /1967	U	125SNLB	--	--	2700
133-096-22DDC1	HUETHER, B.	--	50	--	24	1909	25.00	--	S	125SBTR	--	--	--
133-096-22DDC2	HUETHER, B.	--	70	47	4	1960	38.00	--	H	125TGRV	--	--	2703
133-096-22DDC3	HUETHER, B.	--	190	--	4	--	120.00	--	H,S	125TGRV	--	--	--
133-096-23BAB	HUETHER, C.	--	180	--	5	1930	150.00	--	U	125TGRV	--	--	--
133-096-24BAB1	KIRSCHEMANN, E.	--	258	170	6	1927	68.00	--	U	125TGRV	--	--	--
133-096-24BAB2	KIRSCHEMANN, E.	--	62	62	16	1942	--	--	H	125SBTR	--	--	2720
133-096-24CDC	HUETHER, W.	--	164	164	5	1951	140.00	--	U	125TGRV	--	--	--
133-096-25BBB	HUETHER, R.	--	180	--	5	1924	48.00	--	H,S	125TGRV	--	5.0	2520
133-096-26CBB	HUFFER, C.	--	175	--	5	--	100.00	--	U	125TGRV	--	--	--
133-096-26DDB	HUETHER JR, E.	--	90	90	5	--	42.00	--	U	125TGRV	--	5.0	--
133-096-28ADD	KIRSCHENMAN, C.	--	165	--	6	1917	50.00	--	U	125TGRV	--	--	--
133-096-28DAA1	KIRSCHENMAN, C.	--	154	--	4	1953	40.00	--	H	125TGRV	--	--	2708
133-096-28DAA2	KIRSCHENMAN, C.	--	71	51	4	1960	30.00	--	S	125TGRV	2310	8.5	2696
133-096-28DAA3	KIRSCHENMAN, C.	--	97	60	4	1966	60.00	--	H	125TGRV	--	--	2708
133-096-29CCA	JUKSTAD, K.	--	24	0	24	--	14.00	11/ /1967	U	125TGRV	--	--	2680
133-096-30BAA	URLACHER, P.	--	35	35	24	1954	28.00	--	S	125TGRV	--	3.5	--
133-096-30BAB1	URLACHER, P.	--	35	35	24	1956	20.00	--	S	125TGRV	--	5.5	--
133-096-30BAB2	URLACHER, P.	--	25	25	24	1964	20.00	--	H	125TGRV	--	--	--
133-096-30BAB3	URLACHER, P.	67	47	60	4	1966	15.00	--	H	125TGRV	--	--	2662
133-096-30CAA1	URLACHER, P.	--	20	0	60	1917	14.00	11/ /1967	U	125TGRV	--	4.5	2650
133-096-30CAA2	URLACHER, P.	--	22	--	--	1936	--	--	U	125TGRV	--	6.0	--
133-096-33DDA	BIEBER, F.	--	22	22	6	1945	10.00	--	H	125TGRV	--	--	--
133-096-35DDD	BIEBER, F.	--	50	50	18	1942	24.00	--	U	125TGRV	--	4.5	--
133-096-34ACB	KIRSCHEMANN, J.	--	150	150	5	--	130.00	--	H,S	125TGRV	--	--	--

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133-093-35BAC	SWINDLER, J.	--	95	95	4	1950	60.00	--	S	125TGRV	--	--	2550
133-093-36BAD	MEHRER, A.	--	82	58	4	1964	35.00	--	S	125SBTR	--	10.5	2515
133-093-36CDD	3712, NUSWC	--	320	--	--	1969	--	--	U	BEDROCK	--	--	2576
133-094-01BBB	3717, NUSWC	--	340	--	--	1969	--	--	U	BEDROCK	--	--	2454
133-094-02ABA	3709, NUSWC	--	380	--	--	1969	--	--	U	BEDROCK	--	--	2470
133-094-02ABB1	CHRISTMAN, P.	--	200	200	4	--	10.00	--	S	125TGRV	--	7.5	2467
133-094-02ABB2	CHRISTMAN, P.	--	210	210	4	--	--	--	H	125TGRV	--	--	2490
133-094-03BBB	AUSTIN, H.	--	157	117	4	1961	1.00	--	U	125TGRV	--	--	2473
133-094-04AAA1	AUSTIN, H.	--	60	--	6	1928	--	--	H	125TGRV	--	--	2470
133-094-04AAA2	AUSTIN, H.	--	90	--	--	--	--	--	S	125TGRV	--	--	2470
133-094-04DAA1	WALLACE, C.	--	20	--	24	--	10.00	--	H	125TGRV	--	--	2465
133-094-04DAA2	WALLACE, C.	--	165	129	1	1959	6.00	--	H,S	125TGRV	--	12.1	2465
133-094-04DAA3	WALLACE, CHARLES	600	540	--	4	08/07/1976	--	--	H,S	--	2100	13.0	--
133-094-05AAD	KIRSCHMANN, AUGUST	475	475	435	4	10/28/1974	185.00	10/28/1974	S	--	--	--	--
133-094-06DAA1	ABBEY, H.	--	36	--	4	--	18.00	--	U	125SBTR	--	7.5	--
133-094-06DAA2	ABBEY, H.	--	--	--	--	--	63.00	11/ /1967	U	125SBTR	--	8.5	2580
133-094-09BAB	WALLACE, C.	--	170	--	4	1959	3.00	--	S	125TGRV	--	--	2405
133-094-12DDC	FURSCH, F.	--	458	317	4	1963	150.00	--	H,S	125TGRV	2000	12.2	2470
133-094-14BAA	AUEN, C.	--	131	131	4	1948	40.00	--	H,S	125TGRV	--	8.5	2510
133-094-14CCD	FIEDLER, F.	--	70	--	6	--	13.00	--	U	125TGRV	--	8.0	2540
133-094-17BAD	KIRSCHEMANN, A.	--	80	80	6	1956	70.00	--	H	125SBTR	--	--	2630
133-094-18BCA	LIEN, A.	--	29	--	--	1951	18.00	--	H	125SNLB	--	9.0	2540
133-094-19BAD	OLSON, O.	--	182	122	4	1961	55.00	--	S	125TGRV	--	--	2556
133-094-20ABD1	BOGNER, J.	--	39	--	30	1910	26.00	08/ /1967	U	125SNLB	--	13.8	2569
133-094-20ABD2	BOGNER, J.	--	61	41	4	1960	23.00	--	U	125SBTR	--	--	2570
133-094-20BBB1	SCHMITT, E.	--	17	12	36	1916	8.00	11/ /1967	H	125SNLB	--	--	2675
133-094-20BBB2	SCHMITT, E.	--	140	140	5	1960	80.00	--	S	125TGRV	--	8.5	--
133-094-20BBB3	SCHMITT, E.	--	22	22	5	1964	12.00	--	Z	125SNLB	--	--	--
133-094-21DDC	FIEDLER, A.	--	115	100	5	1942	84.00	11/ /1967	H,S	125TGRV	--	8.5	2630
133-094-22ABA	EBERT, V.	--	80	--	6	--	55.00	--	U	125TGRV	--	--	2565
133-094-23BBB	FIEDLER, J.	--	82	82	--	1946	46.00	11/ /1967	U	125TGRV	--	8.0	2550
133-094-25ACC	3716, NUSWC	340	70	64	1	1969	19.00	06/ /1969	U	125TGRV	1820	8.5	2535
133-094-26DAA1	LANDIS, T.	--	55	30	10	--	16.00	--	H	125TGRV	--	--	2576
133-094-26DAA2	LANDIS, T.	--	71	35	4	1962	30.00	--	H,S	125SNLB	--	11.0	2576
133-094-28AAD	WALLACE, C.	--	80	57	4	1959	40.00	--	S	125TGRV	--	--	2607
133-094-28CDA	ANDERSON, G.	--	123	85	4	1963	70.00	--	H	125TGRV	--	--	2647
133-094-32BAA	EBERT, CHARLES	120	120	80	4	04/30/1974	--	--	S	--	--	--	--
133-094-32BBA	EBERT, V.	--	180	180	6	--	115.00	--	H,S	125TGRV	--	--	--
133-094-32DDA1	LAUGHER, R.	--	404	--	--	1964	150.00	--	U	125TGRV	--	--	2713
133-094-32DDA2	LAUGHER, R.	--	250	--	--	--	--	--	H,S	125TGRV	--	12.1	--

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133-096-35BAA	NUTZ, M.	--	8	--	48	1938	4.00	11/ /1967	U	125TGRV	--	--	2690
133-097-04BBB1	OLSON, D.	--	45	--	5	1946	30.00	--	H	125SNLB	--	--	2732
133-097-04BBB2	OLSON, D.	--	90	--	6	--	20.00	--	U	125TGRV	--	--	--
133-097-05DAA	OTT, G.	--	90	80	5	1961	5.00	12/ /1967	U	125TGRV	--	6.0	2705
133-097-06AAA	RUSTAN, A.	--	52	--	18	--	12.00	--	H,S	125TGRV	--	--	2730
133-097-06BAA1	RUSTAN, O.	--	60	60	6	1910	20.00	--	S	125TGRV	--	6.5	--
133-097-06BAA2	RUSTAN, O.	--	65	65	5	1951	43.00	--	H,S	125TGRV	--	--	2748
133-097-08ACA1	BETTS, W.	--	50	50	16	1912	38.00	--	U	125TGRV	--	4.5	2710
133-097-08ACA2	BETTS, W.	--	80	80	6	1957	40.00	--	H	125TGRV	--	--	--
133-097-09AAA1	3531, NDSWC	260	81	78	1	1967	4.00	12/ /1967	U	125TGRV	934	8.5	2690
133-097-09AAA2	3531, NDSWC	260	221	218	1	1967	7.00	12/ /1967	U	125TGRV	904	8.0	2690
133-097-10BBD1	RUSTAN, E.	--	43	43	18	1943	8.00	--	S	125TGRV	--	--	2687
133-097-10BBD2	RUSTAN, E.	--	75	68	5	1946	20.00	--	H	125TGRV	910	--	2687
133-097-10BBD3	RUSTAN, E.	--	43	43	18	1948	8.00	--	U	125TGRV	--	--	--
133-097-10BBD4	RUSTAN, E.	--	95	70	4	1968	71.00	--	H	125TGRV	--	11.0	2687
133-097-10CDA1	OTT, G.	--	21	0	48	1904	18.00	12/ /1967	U	125TGRV	--	--	2685
133-097-10CDA2	OTT, G.	--	28	28	18	--	--	--	U	125TGRV	--	6.0	2686
133-097-11CDC	MEIDT, K.	--	56	56	18	1926	30.00	--	H,S	125TGRV	--	--	--
133-097-11DDA1	MULTHAUP, R.	--	38	--	6	1927	29.00	12/ /1967	U	125SBTR	--	--	2707
133-097-11DDA2	MULTHAUP, R.	--	102	85	4	1967	56.00	--	H,S	125TGRV	1310	10.0	2707
133-097-12DDD1	JORSTAD, K.	--	120	120	6	1910	107.00	--	S	125TGRV	--	7.0	--
133-097-12DDD2	JORSTAD, K.	--	223	183	4	1967	119.00	--	H	125TGRV	--	--	--
133-097-14CBC1	PAUL, J.	--	34	0	54	1908	16.00	08/ /1967	S	125TGRV	--	--	2681
133-097-14CBC2	PAUL, J.	--	41	21	4	1962	8.00	--	H,S	125TGRV	--	--	2688
133-097-14DAA1	FARBEN, L.	--	16	0	72	1909	10.00	--	S	125SBTR	--	--	--
133-097-14DAA2	FARBEN, L.	--	20	20	4	1945	15.00	--	H	125SBTR	--	--	--
133-097-15ABB1	OTT, G.	--	24	24	6	1949	12.00	--	H	125SBTR	--	--	--
133-097-15ABB2	OTT, G.	--	28	28	18	1960	14.00	--	S	125SBTR	--	6.5	--
133-097-18BBC	JALBERT, A.	--	50	--	24	--	35.00	--	S	125SBTR	--	--	2760
133-097-18DAC	DILSE, T.	--	74	0	24	--	62.00	12/ /1967	U	125TGRV	--	5.5	2760
133-097-19BBB	JALBERT, D.	--	135	--	4	1959	--	--	H	125TGRV	2330	--	2765
133-097-20ACB	BOHNHUFF, M.	--	90	--	18	1923	58.00	12/ /1967	U	125TGRV	--	6.0	2785
133-097-21AAB	THOMAS, L.	--	60	60	5	1949	40.00	--	S	125SBTR	--	--	2720
133-097-22BCB	THOMAS, L.	--	117	--	4	1964	87.00	--	H,S	125TGRV	--	--	--
133-097-22DDA	REDETZKE, G.	--	90	90	6	--	40.00	--	S	125TGRV	--	6.0	--
133-097-23BCD	PAUL, J.	--	40	--	4	--	30.00	--	S	125TGRV	--	--	--
133-097-23CCC1	REDETZKE, G.	--	116	75	6	1914	55.00	--	S	125TGRV	--	6.0	--
133-097-23CCC2	REDETZKE, G.	--	75	75	6	1948	55.00	--	H	125TGRV	--	--	--
133-097-24ACC	STÜCKERT, G.	--	40	--	18	1923	27.00	12/ /1967	U	125SBTR	--	5.5	2680
133-097-26AAA	SCHRUEDER, D.	--	114	--	5	1912	45.00	--	U	125TGRV	--	--	--

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133-097-27DDA	REDETZKE, G.	--	99	--	6	--	44.00	12/ /1967	U	125TGRV	--	--	2750
133-097-28ADA	URLACHER, G.	--	60	--	18	1931	55.00	--	S	125TGRV	--	6.5	--
133-097-28BCB	HULTZER, M.	--	188	--	6	1914	100.00	--	U	125TGRV	--	43.0	2780
133-097-29CCC	DECKER, E.	--	42	42	6	1966	20.00	--	H,S	125TGRV	--	--	2695
133-097-30BBC	JALBERT, R.	--	60	--	48	--	30.00	--	H	125TGRV	1550	--	2760
133-097-30CCB1	KRENZ, A.	--	50	4	42	1906	35.00	--	S	125TGRV	--	--	2735
133-097-30CCB2	KRENZ, A.	--	50	50	18	1957	35.00	--	H	125TGRV	--	--	2735
133-097-30DCC1	NESTER, E.	--	112	112	5	1950	52.00	--	U	125TGRV	--	--	2736
133-097-30DCC2	NESTER, E.	--	63	--	10	1952	20.00	--	U	125TGRV	--	--	2736
133-097-30DCC3	NESTER, E.	--	67	63	4	1967	20.00	--	H,S	125TGRV	--	--	--
133-097-32BBA	NESTER, E.	--	85	80	6	1950	55.00	--	U	125TGRV	--	8.0	2700
133-097-32DCC1	TEWS, C.	--	35	--	24	1908	27.00	--	U	125TGRV	--	--	2700
133-097-32DCC2	TEWS, C.	--	94	--	6	1952	44.00	--	S	125TGRV	--	--	2700
133-097-32DCC3	TEWS, C.	--	95	75	4	1967	50.00	--	H,S	125TGRV	2310	10.0	2699
133-097-34BBB	NDSWC 3556	1000	674	668	2	10/26/1967	59.00	12/05/1967	U	125LDLM	2420	8.5	2733
133-097-34CCB	--	--	40	--	--	--	24.00	12/ /1967	U	125TGRV	--	--	2695
133-098-05BD	ARNESUN, 1-57	5316	--	--	--	--	--	--	U	--	--	--	2765
133-098-14AAA	WEGNER, ART	--	860	--	--	10/28/1968	190.00	07/22/1975	S,H	125LMCK	2200	16.0	2790
133-098-20CBC	SCHAAR, HUBERT	94	91	--	6	--	54.00	06/23/1950	S	125TRVL	1870	14.0	--
133-098-29BAC	H.SCHAAR, 1	5107	--	--	--	06/23/1950	--	--	U	--	--	--	2736
133-098-32BCA	SCHAAR, FREDRICK	108	106	--	5	07/23/1968	76.00	07/23/1949	S	125TRVL	2800	11.0	--
133-099-05DCA	PICHLER, ANNA	55	55	--	5	07/23/1949	36.00	--	U	125TRVL	--	--	--
134-093-01CCC	3554, NDSWC	--	200	--	5	--	--	--	U	BEDROCK	--	--	2494
134-093-02AAB	SCHWARTZ, C.	--	180	--	4	1967	170.00	--	H,S	125SBTR	--	--	2583
134-093-04ADA	SALSCHEIDER, E.	--	286	--	4	1945	160.00	09/ /1967	U	125TGRV	--	--	2565
134-093-06ADC	SRB, J.	--	385	--	3	1908	200.00	--	H,S	125TGRV	--	--	2555
134-093-08CDC	PEKAS, M.	--	75	--	6	--	--	--	U	125SBTR	--	--	2514
134-093-08DBB	PEKAS, M.	173	61	44	4	1947	41.00	--	S	125TGRV	3170	9.0	2528
134-093-10ADD1	ZOELLER, M.	--	340	100	3	1964	80.00	--	S	125TGRV	--	--	2545
134-093-10ADD2	ZOELLER, M.	--	80	80	6	1936	60.00	--	H	125SBTR	--	--	2560
134-093-10DAA	LUTZ, M.	--	154	--	4	1944	146.00	--	S	125TGRV	--	--	2550
134-093-12CCC1	FRIES, D.	--	75	50	4	--	23.00	--	H,S	125TGRV	--	--	2494
134-093-12CCC2	FRIES, D.	--	60	35	4	1964	1.00	--	S	125TGRV	2830	--	2494
134-093-13BCB1	FRIES, N.	--	345	54	3	1967	125.00	--	S	125TGRV	--	12.1	2515
134-093-13BCB2	FRIES, N.	--	102	42	4	--	39.00	--	H	125TGRV	--	--	2511
134-093-14DDD1	LUTZ, F.	--	54	--	6	1963	18.00	--	H	125SBTR	--	--	2500
134-093-14DDD2	LUTZ, F.	--	200	180	6	1946	20.00	--	S	125TGRV	--	--	2500
134-093-17ABB	PEKAS, H.	--	150	130	5	1956	70.00	--	H,S	125TGRV	--	--	2512
134-093-17CDC	SALSCHEIDER, A.	--	130	--	6	1958	50.00	--	H,S	125TGRV	--	--	2490
134-093-17DDD1	SALSCHEIDER, A.	--	64	--	6	--	18.00	08/ /1967	U	125TGRV	--	--	2520

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134-093-17DDD2	SALSCHEIDER, A.	--	61	45	4	1954	25.00	--	S	125TGRV	--	9.3	2520
134-093-18BBA	PEKAS, C.	--	35	35	24	1913	28.00	--	S	125TGRV	--	--	2490
134-093-18BBB1	PEKAS, C.	--	52	52	6	1910	36.00	--	S	125TGRV	--	--	2493
134-093-18BBB2	PEKAS, C.	--	53	53	6	1953	30.00	--	H	125TGRV	--	--	2493
134-093-19DCC	SCHAIBLE, O.	--	550	--	6	--	90.00	--	H	--	--	--	2443
134-093-19DCD	SCHAIBLE, O.	300	--	--	--	1962	3.00	--	U	125TGRV	--	--	2419
134-093-21CBB	HEINRICH, E.	--	125	--	4	--	20.00	--	H,S	125TGRV	--	--	2443
134-093-23ADD	NDSWC 3710	320	263	257	1.25	06/06/1969	30.00	06/19/1969	U	125TGRV	1550	9.5	2510
134-093-24AAD1	HUMMEL, J.	--	470	--	4	1964	270.00	--	H	--	--	--	2489
134-093-24AAD2	HUMMEL, J.	--	50	--	4	1964	--	--	S	125SBTR	--	--	2488
134-093-24BBB	BLICKENSDERFER	--	41	--	6	--	6.00	09/ /1967	U	125SBTR	--	--	2480
134-093-24DCC	LUTZ, F.	--	38	--	12	--	24.00	09/ /1967	U	125SBTR	--	--	2455
134-093-26AAB	LUCHSINGER, H.	--	72	--	24	--	50.00	--	H,S	125TGRV	--	--	2481
134-093-26CDD	DAUENBAUER, P.	--	250	--	4	--	40.00	--	H,S	125TGRV	--	--	2421
134-093-28AAD1	HEINRICH, C.	--	270	210	4	1948	20.00	--	S	125TGRV	--	--	2440
134-093-28AAD2	HEINRICH, C.	--	90	0	--	1964	--	--	U	125TGRV	--	--	2440
134-093-28ADA	HEINRICH, V.	--	345	--	6	1945	18.00	--	H,S	125TGRV	--	--	2443
134-093-31BAB1	GREFF, M.	--	175	--	3	--	0.00	--	H,S	125TGRV	--	--	2400
134-093-31BAB2	GREFF, M.	--	35	0	4	1963	15.00	--	H	112TRRC	--	--	2398
134-093-32AAB	BRUSSEAU, J.	--	142	124	4	1964	40.00	--	H,S	125TGRV	--	--	2433
134-093-32CAA	USBR	--	84	0	--	1952	7.00	09/ /1952	U	111ALVM	--	--	2393
134-093-32CAD	USBR	--	83	0	--	1952	7.00	09/ /1952	U	125TGRV	--	--	2393
134-093-32CCB	HEINRICH, C.	--	150	100	1	1962	F	--	S	125TGRV	--	9.3	2412
134-093-32CDC1	USBR	--	74	0	--	1952	14.00	10/ /1952	U	125TGRV	--	--	2388
134-093-32CDC2	USBR	--	118	0	--	1952	12.00	10/ /1952	U	125TGRV	--	--	2426
134-093-32CDC3	USBR	--	75	0	--	1952	21.00	09/ /1958	U	125TGRV	--	--	2383
134-093-32CDD	USBR	--	83	0	--	1952	15.00	10/ /1952	U	125TGRV	--	--	2393
134-093-32DAD	USBR	--	80	0	--	1964	19.00	12/ /1964	U	125TGRV	--	--	2392
134-093-32DBB	USBR	--	123	0	--	1952	23.00	09/ /1952	U	125TGRV	--	--	2430
134-093-33ACD	BLICKENSDERFER	--	200	--	2	--	F	--	S	125TGRV	--	--	2400
134-093-35ACD	PARSON, B.	--	380	350	4	1968	112.00	--	H	125TGRV	--	--	2412
134-093-35D8D	NO. 2, MOTT	432	421	401	8	1947	121.00	--	P	125TGRV	1890	--	2422
134-093-35DCD	NO. 1, MOTT	384	378	356	11	1928	100.00	--	P	125TGRV	1920	11.1	2380
134-093-36AAC1	BERTSCH, T.	--	30	--	4	--	--	--	H	125TGRV	--	--	2410
134-093-36AAC2	BERTSCH, T.	--	12	--	32	--	9.00	--	S	125TGRV	--	--	2412
134-093-36DCC	HTNG CO FAIR	--	151	131	4	1966	50.00	--	S	125TGRV	--	--	2408
134-094-03DCC	GION, W.	--	80	--	5	1956	37.00	--	H	125SNLB	--	--	2517
134-094-04DCD1	IVEY, A.	--	38	38	4	1952	--	--	H	125SNLB	--	--	2476
134-094-04DCD2	IVEY, A.	--	52	17	4	1961	20.00	--	S	125SNLB	--	--	2479
134-094-06DDD1	KLEIN, F.	--	18	0	48	1925	--	--	H	125SNLB	--	--	2473

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134-094-06DDD2	KLEIN, F.	--	30	--	6	--	6.00		--	S	125SNLB	--	9.5	2472
134-094-08DCC	3629, NDSWC	1760	223	217	1	1968	12.00		10/ /1968	U	125TGRV	1380	9.0	2465
134-094-10DCD1	CANDRIAN JR, P.	--	120	100	6	1925	90.00		--	S	125S8TR	--	--	2535
134-094-10DCD2	CANDRIAN JR, P.	--	120	90	6	1951	80.00		--	H,S	125S8TR	--	--	2530
134-094-12CCC	MAYER, VERN	700	672	--	4	08/06/1974	--		--	H	--	2320	17.5	--
134-094-12DAA	TOLLEFSON, P.	--	90	--	--	1964	--		--	U	BEDROCK	--	--	2480
134-094-12DAD	TOLLEFSON, P.	--	49	--	--	1964	--		--	U	125TGRV	--	--	2475
134-094-12DCD	TOLLEFSON, P.	--	160	--	--	1964		F	--	U	125TGRV	--	--	2448
134-094-12DDA1	TOLLEFSON, P.	--	300	240	4	1948	18.00		--	H,S	125TGRV	--	--	2472
134-094-12DDA2	TOLLEFSON, P.	--	90	--	--	1964	--		--	U	125TGRV	--	--	2473
134-094-12DDD	TOLLEFSON, P.	--	60	--	--	1964	--		--	U	125TGRV	--	--	2448
134-094-17AAA1	LARSON, G.	--	35	25	6	1928	20.00		--	H	125SNLB	--	--	2466
134-094-17AAA2	LARSON, G.	--	50	26	4	1961	15.00		--	S	125SNLB	--	--	2466
134-094-20AAA	BINSTOCK, KASPER	184	180	156	4	04/22/1973	80.00		04/22/1973	H,S	--	1310	13.5	--
134-094-20AAD	BINSTOCK, C.	--	170	170	6	1957	70.00		--	H,S	125TGRV	--	--	2460
134-094-20CDB	RADACH, A.	--	150	130	4	--	15.00		--	U	125TGRV	--	--	2450
134-094-20CDC	RADACH, A.	--	150	--	5	1947	27.00		--	H	125TGRV	--	--	2465
134-094-20D8D	ROGNE, A.	--	100	120	5	1955	9.00		06/ /1968	S	125TGRV	--	12.5	2440
134-094-20DCD	ROGNE, A.	--	80	70	4	1950	30.00		--	H	125TGRV	--	--	2450
134-094-24CDC	SCHAIBLE, O.	--	141	99	1	1961		F	--	S	125TGRV	--	9.3	2420
134-094-27BBD	ESTATE, MOE	--	260	215	1	1962		F	--	S	125TGRV	--	10.0	2420
134-094-27DAB	SCHAIBLE, B.	--	202	142	1	1962	2.00		--	S	125TGRV	--	9.3	2426
134-094-28ADC	KOUBA, L.	--	150	150	1	1961		F	--	S	125TGRV	--	--	2438
134-094-28BC81	KOUBA, L.	--	39	0	72	--	20.00		09/ /1967	U	125TGRV	--	--	2450
134-094-28BC82	KOUBA, L.	--	142	100	6	1963	10.00		--	U	125TGRV	--	11.0	2450
134-094-28BDC	KOUBA, L.	--	181	154	1	1963	1.00		--	S	125TGRV	--	--	2452
134-094-28CAB	KOUBA, L.	--	171	136	4	1964	1.00		--	S	125TGRV	--	--	2443
134-094-32AAA1	ESTATE, MOE	--	390	330	4	1959	55.00		--	H	125TGRV	1810	11.7	2465
134-094-32AAA2	ESTATE, MOE	--	200	--	4	1963	60.00		--	H	125TGRV	--	--	2465
134-094-32AAA3	ESTATE, MOE	--	110	110	3	1964	55.00		--	S	125TGRV	--	--	2465
134-094-32ADA	FOCHT, JACOB	320	300	260	4	07/25/1974	120.00		07/25/1974	U	--	--	--	--
134-094-33BAA	ESTATE, MOE	--	200	150	4	--	8.00		--	S	125TGRV	--	--	2475
134-094-34DCD1	RADASH, T.	--	50	--	6	1947	8.00		--	S	125TGRV	--	--	2445
134-094-34DCD2	RADASH, T.	--	150	150	6	1960		F	--	H	125TGRV	--	--	2445
134-094-35AAA	SCHAIBLE, BEN	260	220	185	2	06/19/1972		F	--	S	--	1440	11.5	--
134-094-35CAC	A-1, NDGS	--	115	--	--	1969	--		--	U	BEDROCK	--	--	2535
134-094-35CDD	SCHAIBLE, BEN	320	320	288	4	06/27/1974	81.00		06/27/1974	S	--	--	--	--
134-094-35D8B	F-1, NDGS	--	54	--	--	1969	--		--	U	BEDROCK	--	--	2508
134-095-01CBD	BINSTOCK, S.	--	50	30	4	1963	36.00		--	U	125SNLB	--	--	2500
134-095-01CCD	BINSTOCK, S.	--	80	0	7	1963	--		--	U	125SNLB	--	--	2500

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134-095-01DDA	BINSTOCK, S.	--	30	--	4	1939	25.00	--	H	125SNLB	--	--	2485
134-095-03BAB1	GREFF, V.	71	63	32	4	1959	31.00	--	S	125SBTR	--	--	2535
134-095-03BAB2	GREFF, V.	--	60	31	4	1962	20.00	--	H	125SBTR	--	--	2535
134-095-03CCD	GREFF, V.	--	118	55	1	1961	9.00	--	S	125TGRV	1670	9.4	2460
134-095-04DCD	UHLER, T.	--	40	40	6	1953	--	--	H,S	125TGRV	--	9.5	2468
134-095-09DCA	WAGGONER, R.	--	86	--	4	1961	36.00	--	H	125TGRV	--	--	2502
134-095-10CCB1	BOLTE, W.	--	140	80	24	1956	38.00	06/ /1968	U	125TGRV	--	--	2520
134-095-10CCB2	BOLTE, W.	--	172	112	4	1961	40.00	--	S	125TGRV	--	--	2512
134-095-13ACA1	BACH, H.	--	30	--	12	--	15.00	09/ /1966	U	125SBTR	--	--	2463
134-095-13ACA2	ANTON, A.	--	233	--	4	--	1.00	--	H	125TGRV	--	--	2463
134-095-13ACC	HONEYMAN, E.	--	167	167	4	1959	10.00	--	H	--	--	--	2470
134-095-13ACD	NO.1, REGENT	--	546	--	8	1936	57.00	--	P	125CNBL	2150	12.0	2465
134-095-13ADC	REGENT, CITY OF	1157	1150	1032	8	08/15/1972	152.00	08/15/1972	P	--	2150	12.0	--
134-095-13BDD	BRUGAMYER, D.	--	90	--	6	--	20.00	--	H	125TGRV	--	--	2475
134-095-13CDB	NO.2, REGENT	--	900	--	8	1950	--	--	P	125CBLD	--	--	2493
134-095-13CDD1	HUFFMAN, R.	--	123	88	4	1963	60.00	--	S	125TGRV	--	--	2493
134-095-13CDD2	HUFFMAN, R.	--	67	47	4	1964	53.00	--	H	125TGRV	--	--	2490
134-095-14ABB	KUNZE, C.	--	130	105	4	1963	50.00	--	H	125TGRV	--	--	2486
134-095-14DAA	HONEYMAN, E.	--	130	130	4	1963	120.00	--	S	125TGRV	--	--	2504
134-095-20AAA	3530, NDSWC	220	161	158	1	1967	79.00	12/ /1967	U	125TGRV	906	10.0	2572
134-095-23AAA	LUTZ, J.	--	80	--	6	--	--	--	H	125TGRV	--	11.0	2517
134-095-23AAC	LUTZ, J.	--	142	40	4	1961	25.00	--	S	125TGRV	--	--	2480
134-095-26CBB	DOE, G.	--	120	--	6	--	80.00	--	S	125TGRV	--	--	2493
134-095-26CBC1	DOE, G.	--	20	--	6	--	4.00	--	H	125TGRV	--	--	2490
134-095-26CBC2	DOE, GARY	178	178	140	4	02/11/1974	--	--	U	--	--	--	--
134-095-26DAA	ANDERSON, DAVID	592	592	550	2	07/10/1972	--	--	H	--	1830	15.0	--
134-095-26DAD	ANDERSON, R.	--	410	395	4	1967	180.00	--	H,S	125TGRV	--	--	2540
134-095-27DDA	DOE, GARY	200	180	160	4	10/13/1975	--	--	H,S	--	1550	11.5	--
134-095-30CCB	WOODRUFF, CLYDE	230	216	195	4	06/13/1979	70.00	06/13/1979	H	--	1080	15.0	--
134-095-30CCC	WOODRUFF, C.	--	132	77	4	1961	32.00	--	H,S	125TGRV	--	--	2544
134-095-33CCD1	NETZER, E.	--	225	225	4	1956	125.00	--	S	125TGRV	--	--	--
134-095-33CCD2	NETZER, E.	--	228	218	4	1960	25.00	--	H	125TGRV	--	--	--
134-095-34AAB	OLSON, V.	--	125	--	4	--	--	--	H,S	125TGRV	--	--	2521
134-095-34CAA	OLSON, V.	--	126	--	4	1965	57.00	--	S	125TGRV	--	--	2562
134-096-01BCC	USGS	100	0	--	--	08/17/1976	D	--	U	--	--	--	2535
134-096-03BAB	HERBERHOLZ, J.	--	200	--	6	1963	150.00	--	H,S	125TGRV	--	--	--
134-096-03DDD	3718, NDSWC	--	200	--	--	1969	--	--	U	BEDROCK	--	--	2584
134-096-04DAD	LUTZ, J.	--	96	--	6	1915	65.00	06/ /1968	U	125TGRV	--	--	2580
134-096-05CCD1	MAYER, E.	--	20	0	--	--	6.00	--	S	125TGRV	--	14.3	--
134-096-05CCD2	MAYER, E.	--	160	--	4	1961	--	--	H	125TGRV	1580	--	2592

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134-096-06CCD	SCHAUF, J.	--	114	--	4	--	78.00	06/ /1968	U	125TGRV	--	--	--
134-096-07DDA	JUNG, W.	--	100	--	6	1958	80.00	--	H,S	125TGRV	--	--	--
134-096-08BAB	USGS	160	160	148	2	08/17/1976	46.68	R 11/09/1976	U	125TGRV	1750	9.0	2575
134-096-08CCB	LUTZ, H.	--	300	--	6	1959	80.00	--	H,S	125TGRV	--	--	--
134-096-10BBA	RAFFERTY, J.	--	185	--	6	1915	80.00	--	H,S	125TGRV	--	--	2595
134-096-11BBB	HARBENHOLZ, J.	--	254	--	6	--	88.00	06/ /1968	U	125TGRV	--	--	2600
134-096-11CCC	MAGELKY, F.	--	117	--	6	1958	30.00	--	H,S	125TGRV	--	--	2595
134-096-17BBA	LUTZ, DONALD	300	272	--	4	01/17/1973	79.00	01/17/1973	S	--	2000	16.0	--
134-096-18BAB	JUNG, J.	--	15	0	110	1909	10.00	--	S	125TGRV	--	--	--
134-096-18BBA1	JUNG, J.	--	18	18	84	1929	14.00	--	H	125TGRV	--	--	2597
134-096-18BBA2	JUNG, J.	--	122	86	4	1961	45.00	--	H	125TGRV	--	--	2597
134-096-19BDD1	DOE, E.	--	110	60	6	1955	60.00	--	H	125TGRV	--	--	--
134-096-19BDD2	DOE, E.	--	123	83	6	1964	60.00	--	S	125TGRV	--	--	--
134-096-20BAA	LUTZ, M.	--	250	250	8	1959	100.00	--	H,S	125TGRV	--	--	--
134-096-20BAB	LUTZ, MARVIN	323	320	--	5	01/27/1973	--	--	S	--	--	--	--
134-096-21ABB	WOLF, J.	--	300	--	--	--	80.00	--	S	125TGRV	--	--	2670
134-096-21BAA1	WOLF, J.	--	180	--	6	1965	80.00	--	H	125TGRV	--	--	2670
134-096-21BAA2	WOLF, ARCHIE	1250	1159	1159	6	1955	181.00	03/14/1974	H	--	2360	15.5	--
134-096-24CC	SUGUNY VACAUM	--	10433	--	4	03/14/1974	--	--	U	--	--	--	2604
134-096-25BBB1	3687, NDSWC	--	700	--	9	1954	--	--	U	BEDROCK	--	--	2610
134-096-25BBB2	3687A, NDSWC	--	324	318	--	1968	95.00	10/ /1969	U	125TGRV	1610	10.5	2610
134-096-25DCB	WOODRUFF JR, C.	--	50	40	1	1968	--	--	S	125SBTR	--	--	2615
134-096-26BCB	EST., H.HOVLAND	--	73	--	6	1961	--	--	U	--	--	--	--
134-096-28DCC	OBERLANDER, F.	--	320	--	6	1917	--	--	S	125TGRV	--	--	2679
134-096-29ADD1	LUTZ, A.	--	280	280	--	1960	--	--	S	125TGRV	--	11.5	2705
134-096-29ADD2	LUTZ, RICHARD	1280	1280	1235	6	1926	228.00	05/21/1975	H,S	--	1900	16.0	--
134-096-29DAA	LUTZ, A.	--	90	90	2	05/21/1975	12.00	--	H,S	125SBTR	--	--	2700
134-096-30CBB	ZENKEN, WILLMER	200	180	--	6	1958	105.00	01/31/1973	U	--	--	--	--
134-096-30CCC	ZENKER, W.	--	110	--	4	01/31/1973	70.00	--	S	125SBTR	--	--	2800
134-096-32AUD1	DOE, L.	--	245	--	6	1908	105.00	--	U	125TGRV	--	--	2708
134-096-32ADD2	DOE, L.	--	240	225	6	1927	--	--	H,S	125TGRV	1790	11.1	2710
134-096-33ABB	OBERLANDER, F.	--	270	--	4	--	--	--	U	125TGRV	--	--	--
134-096-34ABB	LEE, N.	--	195	--	6	1963	--	--	U	125TGRV	--	8.5	2670
134-097-02DAA	STEEN, J.	--	100	--	6	1959	70.00	--	H,S	125TGRV	--	11.5	2610
134-097-04CDD	RUSTAN, DAVE	442	440	419	6	1916	80.00	--	S	--	1830	18.0	--
134-097-05AAA	JUNG JR, M.	--	143	--	4	1920	115.00	07/21/1981					
134-097-06CBC	RUSTAN, O.	--	90	--	4	07/21/1981	22.00	06/ /1968	U	125TGRV	--	--	2680
134-097-07ADA1	NELSON, R.	--	135	--	6	--	50.00	--	U	125TGRV	--	--	2680
134-097-07ADA2	NELSON, R.	--	134	--	5	1915	115.00	--	U	125TGRV	--	--	2704
134-097-07ADD	NELSON, R.	--	235	--	5	1946	30.00	--	H,S	125TGRV	--	--	2704
					4	1964	25.00	--	S	125TGRV	--	--	2695
						1962							

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134-097-07BCC	BAKKE, O.	--	122	--	4	--	90.00	--	S	125TGRV	--	4.0	2694
134-097-08CCA1	NELSON, C.	--	62	62	6	1913	27.00	--	H,S	125TGRV	--	3.4	2680
134-097-08CCA2	NELSON, C.	--	100	96	4	1963	33.00	--	H	125TGRV	--	--	2684
134-097-08CCA3	NELSON, C.	--	42	34	6	1963	15.00	--	S	125TGRV	--	5.0	--
134-097-09DAC	BOHNHUFF, D.	--	112	72	4	1961	57.00	--	H,S	125TGRV	--	--	2693
134-097-10ABB	KIRSCHMAN, E.	--	150	150	6	1958	66.00	--	H,S	125TGRV	--	--	2685
134-097-10CBB	JUNG, BRIAN ETAL	117	117	97	5	01/19/1973	60.00	01/19/1973	U	--	--	--	--
134-097-10CBD1	JUNG, M.	--	250	--	6	--	60.00	--	S	125TGRV	--	--	2664
134-097-10CBD2	JUNG, M.	--	101	31	4	1962	--	--	H	125TGRV	--	--	--
134-097-13BCC	GUTESOHN, T.	--	130	130	6	1960	30.00	--	S	125TGRV	--	--	--
134-097-15BCB	ERICKSON, E.	--	179	155	4	1966	51.00	--	H	125TGRV	--	--	2689
134-097-15CCC1	3555, NDSWC	1000	636	630	2	1967	--	--	U	BEDRUCK	--	--	2677
134-097-15CCC2	3555A, NDSWC	--	81	78	1	1967	5.00	12/ /1967	U	125TGRV	2260	11.0	2677
134-097-19DDA	KUSTAN, A.	--	60	--	6	1924	20.00	12/ /1967	U	125SBTR	--	--	2730
134-097-20DAA	JOHNSON, P.	--	154	151	5	1951	79.00	--	U	125TGRV	--	--	2746
134-097-22BCC1	ERICKSON, M.	--	107	--	6	--	60.00	--	H	125TGRV	--	--	--
134-097-22BCC2	ERICKSON, M.	--	207	183	4	1966	40.00	--	S	125TGRV	1470	--	2701
134-097-26CDD	JOHNSON, W.	--	90	--	6	1939	50.00	--	H,S	125SBTR	--	--	2740
134-097-28BCC1	JOHNSON, O.	--	86	72	6	--	48.00	06/ /1968	U	125SBTR	--	--	2780
134-097-28BCC2	JOHNSON, O.	--	100	--	6	1930	60.00	--	H	125SBTR	--	--	--
134-097-28BCC3	JOHNSON, O.	--	100	--	6	1967	60.00	--	S	125SBTR	--	8.5	--
134-097-28DAA1	JOHNSON, W.	--	96	88	6	1946	76.00	--	H	125TGRV	--	--	2772
134-097-28DAA2	JOHNSON, W.	370	185	159	4	1960	84.00	--	S	125TGRV	--	--	2770
134-097-30CBB	JOHNSON, P.	--	65	--	--	1913	40.00	--	U	125SBTR	--	--	2770
134-097-32BCD	JOHNSON, T.	--	70	--	5	1913	40.00	12/ /1967	U	125SBTR	--	4.5	2790
134-097-32DDB1	BOHNHUFF, L.	--	65	65	6	1949	25.00	--	S	125SNLB	--	3.5	2739
134-097-32DDB2	BOHNHUFF, L.	--	91	--	4	1961	35.00	--	H	125SNLB	--	--	2739
134-097-33CBB	STENMUEN, L.	--	--	--	5	--	--	--	U	125SBTR	--	6.5	--
134-097-34ABB	STENMUEN, O.	--	105	--	4	1927	101.00	06/ /1968	U	125SBTR	--	--	2790
134-097-34DAA1	STENMUEN, O.	--	110	0	36	1909	90.00	--	S	125SNLB	--	9.5	2794
134-097-34DAA2	STENMUEN, O.	--	146	126	4	1955	33.00	--	H	125SBTR	--	--	2794
134-097-34DAA3	STENMUEN, O.	--	189	161	4	1966	80.00	--	H	125TGRV	1180	--	2794
134-098-10BAA	OLSON, CHARLES	220	220	168	4	01/17/1973	120.00	01/17/1973	H,S	125SNLB	1450	12.0	2805
134-098-11AA	BAKKE, 1-42	5450	--	--	--	10/22/1968	--	--	--	--	--	--	2727
134-098-13AUD	ERICKSON, ORLIN	201	--	--	--	--	--	--	--	--	--	--	--
134-098-14BBC	BRATTEN, KNUTE	161	160	140	4	07/17/1972	54.00	--	H,S	125SNLB	2000	22.0	2772
134-098-17BA	WILLIAM GRAETZ, 1	5275	--	--	--	08/13/1968	--	--	--	--	--	--	2774
134-098-22AD	KUSTAN, 1-19-13	5400	--	--	--	08/08/1968	--	--	--	--	--	--	2745
134-098-26DAD	GATZKE, ALMA	72	72	--	5	1935	57.00	1935	S	125TKVL	--	--	--
134-098-28DAC	KLEIN, JOHN	101	101	--	4	01/01/1936	40.00	--	U	125TKVL	--	--	--

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134-098-29DAD	CHRISTIANSON, GLENN	200	200	128	4	01/01/1960	45.00	--	S	125TKVL	--	--	--
134-098-33BCC	CHRISTIANSON, GLENN	200	200	--	4	01/01/1971	--	--	S	125TRVL	2190	10.0	--
135-093-018C81	SWINDLER, A.	--	210	--	4	1926	150.00	--	S	125TGRV	--	--	2532
135-093-018C82	SWINDLER, A.	--	252	52	4	1964	60.00	--	H	125TGRV	1440	11.0	2532
135-093-02AAA	3722, NDSWC	--	860	--	--	1969	--	--	U	BEDROCK	--	--	2545
135-093-04CBD	SWANSTON, E.	--	100	100	4	1960	--	--	U	125SBTR	--	7.7	2460
135-093-04DDD	MESSER, M.	--	90	90	4	--	20.00	--	H,S	125SBTR	--	--	2502
135-093-06DBA	LACHES, P.	--	120	100	6	1944	60.00	--	S	125SNLB	--	--	2520
135-093-06DBB	LACHES, P.	--	180	180	4	1961	50.00	--	H	125SBTR	--	--	2505
135-093-07BAA	LACHES, P.	--	80	--	4	1944	15.00	--	S	125SNLB	--	--	2520
135-093-08ABA	MESSER, M.	--	81	70	4	1966	29.00	--	S	125SNLB	1300	9.0	2500
135-093-12BCB1	FRIEDT, J.	--	64	64	6	1955	20.00	--	H	125SBTR	--	--	2483
135-093-12BCB2	FRIEDT, J.	--	65	65	6	1956	20.00	--	S	125SBTR	--	9.3	2477
135-093-12CCC	3553, NDSWC	900	201	198	1	1967	88.00	12/ /1967	U	125TGRV	2160	9.0	2438
135-093-14BAA	FREER, M.	--	90	90	4	--	50.00	--	H,S	125TGRV	--	--	2473
135-093-14CDB1	MESSMER, A.	--	20	0	48	1960	12.00	--	S	125SBTR	--	--	2440
135-093-14CDB2	MESSMER, A.	--	20	20	6	1961	12.00	--	H	125SBTR	--	--	2447
135-093-14DDA	MESSMER, R.	--	116	116	6	1963	20.00	--	S	125TGRV	--	--	2478
135-093-14DDD	MESSMER, R.	--	120	--	4	--	35.00	--	H	125TGRV	--	--	2480
135-093-17AAA1	FRIEDT, A.	--	100	--	4	--	--	--	S	125SNLB	--	9.3	2525
135-093-17AAA2	FRIEDT, A.	--	141	--	4	1958	--	--	H	125SBTR	--	--	2545
135-093-17DBC	WANNER, A.	--	90	--	--	1960	10.00	--	H	125SNLB	--	10.5	2507
135-093-21CDC	SALSCHEIDER, E.	--	209	--	4	1927	40.00	--	U	125SBTR	--	--	2535
135-093-22BBB1	JORDAN, J.	--	50	27	18	1952	27.00	--	H,S	125SNLB	--	11.0	2480
135-093-22BBB2	JORDAN, J.	--	249	249	4	1960	110.00	--	H	125TGRV	--	--	2480
135-093-23AAA	USGS	--	75	--	--	1968	--	--	U	BEDROCK	--	--	2483
135-093-23CCD	FREER, T.	--	114	90	4	1963	60.00	--	S	125TGRV	--	9.3	2467
135-093-24CBA	MESSMER, V.	--	110	110	18	--	12.00	--	H,S	125TGRV	--	--	2445
135-093-26BBA	FREER, T.	--	100	100	4	--	30.00	--	H	125SBTR	--	--	2467
135-093-26CCA	FRIEDT, J.	--	68	45	4	1963	20.00	--	S	125SNLB	--	9.3	2498
135-093-26CDC	FRIEDT, J.	--	146	--	4	1927	12.00	--	H	125TGRV	--	--	2504
135-093-27BCA	SWINDLER, C.	--	65	--	4	1928	45.00	07/ /1967	U	125SNLB	--	--	2511
135-093-28CDC	SCHLOSSER, J.	--	42	7	4	1964	10.00	--	S	125SNLB	--	--	2527
135-093-29ADA	WOLF, V.	--	325	325	4	1907	100.00	--	H,S	125TGRV	--	10.5	2555
135-093-29DAA	SCHLOSSER, A.	--	160	--	6	--	40.00	--	H,S	125SBTR	--	9.3	2576
135-093-31ABB	3708, NDSWC	--	300	--	6	1969	--	--	U	BEDROCK	--	--	2625
135-093-31ADB	HOIBY, H.	--	385	--	6	--	251.00	--	H,S	125TGRV	--	9.3	2610
135-093-32CAB	ZIGN, J.	--	400	--	--	--	176.00	--	S	125TGRV	--	--	2597
135-093-36CCC	USGS	--	70	--	--	1968	42.00	--	U	BEDROCK	--	--	2565
135-094-02ADC1	GION, P.	--	12	12	24	--	6.00	--	H	125SNLB	--	--	2515

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135-094-02ADC2	GION, P.	--	13	13	18	1956	7.00	--	S	125SNLB	--	--	2520
135-094-02CDC	DEWIT, L.	--	30	12	4	1962	15.00	--	H,S	125SNLB	--	--	2535
135-094-04DCC	GREFF, G.	--	60	10	44	--	50.00	--	H,S	125SNLB	--	--	2620
135-094-06ADD1	DAHMUS, R.	--	200	200	4	1949	50.00	--	H	125SNLB	--	--	2620
135-094-06ADD2	DAHMUS, R.	--	48	28	4	1964	30.00	--	H,S	125SNLB	--	13.2	2625
135-094-06BCD1	WAX, P.	--	200	--	6	1928	80.00	--	H,S	125SNLB	--	--	--
135-094-06BCD2	WAX, PETER	230	230	170	4	03/03/1973	--	--	H	--	2260	17.0	--
135-094-09ABB	GREFF, G.	--	60	10	42	--	50.00	--	S	125SNLB	--	8.8	2615
135-094-09DAA	BARTH, L.	--	133	133	6	1934	30.00	--	H,S	125SNLB	--	9.3	2614
135-094-10ABA	GREFF, G.	--	31	10	42	--	18.00	08/ /1967	U	125SNLB	--	--	2580
135-094-12DDD	WEINBERGER, F.	--	195	195	6	1912	130.00	--	H,S	125SNLB	--	9.3	2610
135-094-14DCD	HONEYMAN, J.	--	205	--	2	--	--	--	U	--	--	--	2573
135-094-15CAD	GION, J.	--	102	96	4	1955	82.00	--	S	125SNLB	--	--	2665
135-094-15CCD	GION, ALOIS	255	249	205	4.50	09/29/1981	160.00	09/29/1981	S	--	--	--	--
135-094-18AAB	MASAD, R.	--	30	6	48	--	0.00	--	H,S	125SNLB	--	13.2	2600
135-094-18ABA	REINDEL, FRANK	80	80	70	4	05/01/1974	32.00	05/01/1974	H	--	3510	13.0	--
135-094-19CCC1	CARLSON, C.	--	54	--	4	1935	28.00	08/ /1967	U	125SNLB	--	--	2525
135-094-19CCC2	3528, NDSWC	200	81	78	1	1967	24.00	12/ /1967	U	125SNLB	920	9.4	2521
135-094-20DAD1	NASSET, L.	--	250	--	6	--	90.00	--	S	125SBTR	--	--	2535
135-094-20DAD2	NASSET, L.	--	133	93	6	1962	55.00	--	H	125SNLB	--	--	2536
135-094-22BBC	GION, ALOIS	215	202	162	59	01/06/1978	105.00	01/06/1978	S	--	3300	14.0	--
135-094-22BCC1	GION, A.	--	110	110	4	1959	100.00	--	H,S	125SNLB	--	--	2579
135-094-22BCC2	GION, ALOIS	135	122	107	5	01/02/1978	104.00	01/02/1978	H	--	3100	15.0	--
135-094-22CBC	GION, J.	--	120	120	6	1917	90.00	--	H,S	125SNLB	--	--	2573
135-094-23AAA	HONEYMAN, J.	--	200	--	4	--	102.00	08/ /1967	U	125SBTR	--	--	2570
135-094-24DCD	MARTHALLER, A.	--	240	--	6	--	150.00	--	H,S	125SBTR	--	--	2605
135-094-27BBB	3676, NDSWC	--	200	0	--	1968	--	--	U	BEDROCK	--	--	2569
135-094-28CB81	CARLSON, C.	--	70	--	6	1945	50.00	--	H,S	125SNLB	--	--	2515
135-094-28CB82	CARLSON, C.	--	60	30	4	1968	36.00	--	S	125SNLB	1310	8.5	2515
135-094-30DDA	PRINCE, L.	--	142	82	6	1962	38.00	--	H,S	125SNLB	--	--	2530
135-094-31CCC	3675, NDSWC	200	81	78	1	1968	6.00	11/ /1968	U	125SNLB	628	9.5	2478
135-094-33DDD	PRINCE, R.	--	162	102	4	1962	90.00	--	H,S	125SNLB	2920	--	2535
135-094-34DAA	JACOBS, G.	--	220	--	6	--	120.00	--	H,S	125SNLB	--	--	2634
135-094-35BCC	GION, HERMAN	220	220	175	4.50	09/23/1981	130.00	09/23/1981	H	--	--	--	--
135-094-35BCD	GION, H.	--	180	--	5	1947	70.00	--	H,S	125SNLB	3000	--	2596
135-095-01AAA	HONEYMAN, A.	--	257	242	4	1968	151.00	--	H,S	125SNLB	--	--	2626
135-095-01DAD	HONEYMAN, E.	--	180	--	6	1915	155.00	--	H,S	125SNLB	--	9.0	--
135-095-02BAC	THOMPSON, L.	--	30	0	36	1907	11.00	07/ /1968	U	125SNLB	--	--	2670
135-095-02CAA	THOMPSON, L.	--	25	--	24	--	6.00	--	H,S	125SNLB	--	9.5	--
135-095-04CBC1	BRUCAMYER, D.	--	65	40	4	1963	25.00	--	H,S	125SBTR	--	--	2605

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135-095-04CBC2	BRUGAMEYER, DONALD	55	55	--	5	--	25.00	--	S	--	1650	15.0	--
135-095-06DAA	MONKE, E.	--	97	--	6	1916	77.00	07/ /1968	U	125SBTR	--	--	2620
135-095-07AAA	MONKE, E.	--	58	--	6	--	27.00	07/ /1968	U	125SBTR	--	--	2610
135-095-09DCD	HUNEYMAN, E.	--	60	--	6	1956	25.00	--	S	125SBTR	--	--	2580
135-095-10CBC	KOUBA, R.	--	72	50	6	1948	50.00	--	H,S	125SBTR	--	--	2595
135-095-11DAA	KOUBA, R.	--	254	187	4	1963	170.00	--	S	125SNLB	--	--	2715
135-095-12CDC	TOMFORD, C.	--	70	--	24	1912	56.00	07/ /1968	S	125SNLB	--	9.5	2700
135-095-12DAD	PAYNE, H.	--	50	--	8	1907	20.00	--	H,S	125SNLB	--	--	--
135-095-14ADD	NEPRASH, B.	--	150	90	6	1961	90.00	--	H,S	125SNLB	--	--	2591
135-095-14DCC	PAYNE, D.	--	55	55	6	1909	20.00	--	H,S	125SNLB	--	--	2575
135-095-17DDD	MAGELKY, S.	--	29	23	6	1942	--	--	S	125SNLB	--	10.0	2580
135-095-19DDC1	SCHROEDER, H.	--	65	45	6	1950	20.00	--	H	125TGRV	--	--	2500
135-095-19DDC2	SCHROEDER, H.	--	81	61	4	1966	36.00	--	S	125TGRV	1670	7.0	2515
135-095-22AAA	3677, NDSWC	--	220	--	--	1968	--	--	U	BEDROCK	--	--	2592
135-095-23BAB1	JESCH, J.	--	40	--	6	1948	25.00	--	S	125SNLB	--	--	2562
135-095-23BAB2	JESCH, J.	--	35	--	6	1958	25.00	--	H	125SNLB	--	--	2565
135-095-23DDB	GEERTS, F.	--	24	12	6	1968	8.00	--	S	125SNLB	--	--	2555
135-095-24BCC	GEERTS, F.	--	110	--	6	1909	90.00	--	H,S	125SBTR	--	--	2493
135-095-26AAD	NEPRASH, G.	--	40	20	6	1964	25.00	--	H,S	125SNLB	--	--	2525
135-095-26BBB	JESCH, J.	--	18	0	48	--	10.00	07/ /1968	U	125SNLB	--	--	2538
135-095-32ADA1	BROS., KOUBA	--	16	0	48	--	12.00	--	S	125SBTR	--	--	--
135-095-32ADA2	BROS., KOUBA	--	40	12	6	1936	12.00	--	H	125SBTR	--	--	--
135-095-32BCA	LEIDAL, H.	--	175	--	6	1948	--	--	U	125TGRV	1300	--	--
135-095-35AUC	GION, W.	--	50	43	4	1964	6.00	--	S	125SBTR	--	--	2497
135-095-36ACD	WILLNOW, A.	--	18	--	4	1959	1.00	07/ /1968	U	125SBTR	--	--	2485
135-096-05DDA	HELLEKSON, E.	--	230	212	18	--	140.00	--	S	125SBTR	--	9.5	2610
135-096-08ABB	HELLEKSON, E.	--	140	75	6	1957	115.00	--	S	125SNLB	--	9.5	2577
135-096-08DDA	HELLEKSON, E.	--	100	83	6	1959	12.00	--	S	125SNLB	--	--	2544
135-096-09ABA	USGS	160	146	134	--	--	60.04	R 11/09/1976	U	125TGRV	1480	8.0	2570
135-096-10BAA	KREBS, A.	--	318	282	2	08/17/1976	57.00	--	H,S	125TGRV	1680	11.0	2589
135-096-12AAA	MELLMER, P.	--	80	--	7	1964	20.00	--	S	125SBTR	--	9.0	2605
135-096-13DAA	STECHER, F.	--	82	--	6	--	25.00	06/ /1968	U	125SBTR	--	--	2580
135-096-14BBC	MESLING, J.	--	124	--	6	--	--	--	U	125SBTR	--	--	2605
135-096-14CCC	HELLEKSON, A.	--	85	--	5	1928	25.00	--	S	125SBTR	--	--	2590
135-096-20BBB1	MESLING, P.	--	31	--	6	1915	30.00	06/ /1968	U	125SNLB	--	--	2558
135-096-20BBB2	MESLING, P.	--	60	42	24	--	30.00	--	S	125SBTR	2410	7.5	2557
135-096-20CDC	NESJA, A.	--	100	18	6	1948	30.00	--	H,S	125TGRV	--	10.5	2575
135-096-20DDB	AUSTIN, G.	--	178	--	5	1958	44.00	04/ /1967	U	125TGRV	--	--	2561
135-096-21CCA1	DUBISAR, R.	--	42	--	6	1915	23.00	06/ /1968	U	125TGRV	--	--	2540
135-096-21CCA2	DUBISAR, R.	--	48	--	4	--	--	--	H	125TGRV	--	--	2550
					16	--							

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135-096-22BDB	SCHORSCH, F.	--	86	--	6	1914	60.00		--	H,S	125TGRV	--	--	--
135-096-24CCC1	THIELMAN, W.	--	50	0	48	1920	30.00		--	S	125TGRV	--	10.5	2525
135-096-24CCC2	THIELMAN, W.	--	50	--	18	1948	30.00		--	H	125TGRV	--	--	2475
135-096-24DCC	GRUNDHAUSER, J.	--	30	--	6	--	11.00		--	H	125TGRV	--	9.5	2520
135-096-27ABD	SCHAEFER, K.	--	90	70	4	1955	20.00		--	H,S	125TGRV	--	--	--
135-096-28ABA1	AUSTIN, O.	--	105	--	5	--	97.00		--	H,S	125TGRV	--	--	2510
135-096-28ABA2	AUSTIN, O.	--	13	--	--	--	10.00		--	H	125TGRV	--	--	2510
135-096-28BDA	AUSTIN, O.	--	196	--	4	--	--		--	S	125TGRV	1480	11.0	2569
135-096-29DAA1	MESLING, J.	--	100	70	6	1948	40.00		--	H	125TGRV	--	--	--
135-096-29DAA2	MESLING, J.	--	250	217	4	1960	40.00		--	S	125TGRV	--	--	2578
135-096-30AAA	USGS	60	48	42	2	08/18/1976	23.12	R	11/09/1976	U	125TGRV	875	8.0	2550
135-097-01BBC	SCHORSCH, E.	--	80	50	4	1959	40.00		--	H	125SNLB	--	--	2596
135-097-02BBC1	REBEL, J.	--	78	78	6	--	20.00		--	H	125SNLB	--	--	--
135-097-02BBC2	REBEL, J.	--	100	--	6	1919	--		--	S	125SNLB	--	9.0	--
135-097-02DDA	REBEL, JOSEPH	70	70	60	5	06/30/1975	--		--	S	--	575	11.0	--
135-097-04ADB1	ENGLAND 4, NEW	--	73	73	24	--	47.00		09/ /1966	U	125SNLB	--	--	2595
135-097-04ADB2	ENGLAND 6, NEW	128	84	84	8	1955	42.00		--	P	125SNLB	1350	8.3	2595
135-097-04ADC	SCHATZ, F.	--	59	--	12	--	49.00		09/ /1966	U	125SNLB	--	--	2592
135-097-04ADD1	ENGLAND 7, NEW	--	105	105	8	1955	63.00		--	P	125SNLB	1450	8.9	2593
135-097-04ADD2	ENGLAND 8, NEW	--	105	77	10	1968	49.00		--	P	125SNLB	--	--	2593
135-097-04DAB	SCHATZ, DALE	60	60	40	5	08/04/1973	17.00		08/04/1973	H	--	2310	11.0	--
135-097-04DBA1	ENGLAND 1, NEW	--	101	--	12	1940	57.00		--	P	125SNLB	--	--	2593
135-097-04DBA2	ENGLAND 2, NEW	--	79	--	--	1940	57.00		--	U	125SNLB	--	--	2593
135-097-04DBA3	ENGLAND 3, NEW	--	100	100	8	1944	48.00		--	P	125SNLB	--	--	2593
135-097-04DCA	NDSWC 3628	1790	1360	1320	4	09/03/1968	143.06		11/08/1971	U	211FXML	2290	14.0	2567
135-097-05ABD1	KOHL, J.	--	28	28	6	1930	21.00		--	S	125SNLB	--	9.0	--
135-097-05ABD2	KOHL, J.	--	23	23	4	1947	19.00		--	H	125SNLB	--	--	2600
135-097-06ABA	BISBERG, A.	--	120	--	4	1967	--		--	H,S	125SNLB	--	--	--
135-097-07ABA	HANSON, H.	--	200	200	6	1963	100.00		--	H	125SNLB	--	--	2690
135-097-08BCC	NIELSON, K.	--	170	--	6	--	100.00		--	H,S	125SNLB	--	--	--
135-097-09AAA	NDSHD	90	90	75	4	04/01/1974	52.00		04/01/1974	H	--	1430	17.0	--
135-097-09BAA	ZAHN JR, HENRY	260	260	220	4	08/31/1973	21.00		08/31/1973	S	--	1860	12.0	--
135-097-10BBB	ROISENAUER, A.	--	49	0	18	--	23.00		--	H,S	125SNLB	--	--	--
135-097-10CAB	KELLER, W.	--	67	53	--	--	35.00		--	S	125SNLB	--	--	2606
135-097-10CBA	KELLER, W.	--	230	222	--	1956	--		--	H	125TGRV	--	--	2350
135-097-11BDA	KOLANG, M.	--	60	--	6	1949	10.00		--	H,S	125SBTR	--	--	2565
135-097-13CBC	FRANK, J.	--	88	49	4	1963	64.00		--	H,S	125SNLB	--	--	2601
135-097-14AAA	USGS	120	104	92	2	08/16/1976	28.66	R	11/09/1976	U	125TGRV	1180	10.0	--
135-097-15CCA	JOHNSON, R.	--	108	100	6	1951	68.00		--	H	125SNLB	--	--	2616
135-097-16DDD	ZAHN JR, HENRY	81	80	40	4	09/03/1973	--		--	S	--	2910	15.0	--

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135-097-18CBB1	ERICKSON, J.	--	97	97	6	1944	35.00		--	H	125SNLB	--	--	--
135-097-18CBB2	ERICKSON, J.	--	135	135	6	1960	35.00		--	S	125SNLB	--	8.0	--
135-097-18CBB3	ERICKSON, JAMES	160	160	135	4	03/17/1981	45.00		03/17/1981	H	--	1700	19.0	--
135-097-24BAA	SCHOBINGER, R.	--	35	0	24	1919	25.00		--	H,S	125SBTR	--	5.0	2570
135-097-26ABB	GARDNER JR, P.	--	40	0	24	--	30.00		02/ /1968	U	125SBTR	--	5.5	2610
135-097-26BBB	KOPPINGER, N.	--	85	--	6	--	65.00		--	H,S	125SBTR	--	6.0	2640
135-097-26DDA	NIELSON, J.	--	41	--	6	--	--		--	U	--	--	--	2605
135-097-27BCC	JUNG, P.	--	87	87	18	--	73.00		--	H,S	125SNLB	--	--	2700
135-097-28BCB	BELLAND, R.	--	270	270	5	1956	100.00		--	H,S	125TGRV	--	--	2700
135-097-28DAA	ZASTOUPIL, H.	--	350	--	6	1962	100.00		--	H,S	125TGRV	2040	--	--
135-097-31ADD1	SORENSON, B.	--	243	--	6	--	--		--	H	125TGRV	--	--	2728
135-097-31ADD2	SORENSON, B.	--	114	106	4	1966	55.00		--	S	125TGRV	--	--	2725
135-097-31ADD3	SORENSON, RONALD	170	170	--	--	10/06/1974	90.00		10/06/1974	H	--	1540	13.0	--
135-097-31BBB	ZASTOUPIL, L.	--	143	139	6	1939	120.00		--	H,S	125TGRV	--	7.5	2680
135-097-32AAD	SORENSON, D.	--	184	179	5	1949	80.00		--	H,S	125TGRV	--	--	2730
135-097-33AAA	3532, NDSWC	--	200	0	5	1967	--		--	U	BEDROCK	--	--	2685
135-097-33DBC1	JUNG, A.	--	185	--	6	--	--		--	U	125TGRV	--	--	2670
135-097-33DBC2	JUNG, A.	--	64	65	18	1935	20.00		--	S	125TGRV	--	--	2670
135-097-33DBC3	JUNG, A.	--	96	96	18	1949	41.00		--	S	125TGRV	--	--	--
135-097-33DDC	USGS	160	145	133	2	08/18/1976	65.40	R	11/09/1976	H	125TGRV	--	--	2670
135-098-02DD	KIRSCHMAN, 1	8499	--	--	--	08/08/1971	--		--	U	125TGRV	4200	9.0	2685
135-098-04CC	BRUSICH, 1	8665	--	--	--	10/17/1970	--		--	--	--	--	--	--
135-098-08DD	BRUSICH, 1	11522	--	--	--	12/19/1952	--		--	--	--	--	--	2643
135-098-10ABC	NIELSON, ERNEST	140	140	120	5	10/26/1976	--		--	--	--	--	--	2700
135-098-12BBA	SCHMITT, CORNELIUS	150	150	130	4	10/05/1974	--		--	--	--	--	--	2792
135-098-13ADD	ERICKSON, JAY	201	201	161	4	05/24/1972	70.00		10/26/1976	S	--	2160	13.9	--
135-098-14CBC	MAIXNER, WILLIAM	140	140	110	4	09/01/1972	61.00		10/05/1974	H	--	3700	13.0	--
135-098-20AC	BENZ, 1	8974	--	--	--	11/01/1953	48.00		05/24/1972	S,H	125SNLB	1700	12.0	--
135-098-22BDA	MAIXNER, RICHARD	141	141	125	4	02/20/1970	68.00		--	H	125TRVL	1410	16.0	2765
135-098-32DAD1	SCHNEIDER, FRANK	--	62	--	--	1907	--		--	--	--	--	--	--
135-098-32DAD2	SCHNEIDER, FRANK	270	177	160	4	1951	115.00		--	H	125SNLB	2000	20.0	2798
136-093-02CBC	MILLER, P.	--	202	159	4	1968	--		--	S,H	125SNLB	4010	8.0	2885
136-093-04BBC1	KOLLING, J.	--	327	327	6	--	--		--	U	125SNLB	--	--	2885
136-093-04BBC2	KOLLING, J.	--	30	30	6	--	105.00		--	H,S	125SNLB	2450	9.5	2462
136-093-09CDC1	MILLER, F.	--	160	--	4	1956	--		--	U	125SBTR	--	--	2615
136-093-09CDC2	MILLER, F.	--	283	--	4	1962	10.00		--	H	125SNLB	--	--	2612
136-093-09CDD	MILLER, F.	--	22	--	8	1916	100.00		--	S	125SNLB	--	--	2622
136-093-10ABB1	MILLER, L.	--	30	0	60	--	70.00		--	H	125SBTR	--	--	2622
136-093-10ABB2	MILLER, L.	--	192	147	4	1960	18.00		--	S	125SNLB	--	--	2610
136-093-10BBA1	REBEL, N.	--	140	--	6	1909	25.00		--	S	125SNLB	--	7.7	2477
							95.00		--	H	125SNLB	--	--	2480
							--		--	S	125SNLB	--	10.5	2508

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136-093-10BBA2	REBEL, N.	--	168	168	6	1957	40.00	--	H	125SBTR	--	--	2508
136-093-10DAD	ROTH, J.	--	120	120	84	--	60.00	--	H	125SBTR	--	--	2480
136-093-12ABB	MAYER, J.	--	105	105	6	1948	50.00	--	H,S	125SBTR	--	--	2413
136-093-12BBA1	WELSSCH, P.	--	90	90	5	--	--	--	S	125SBTR	--	8.2	2404
136-093-12BBA2	WELSSCH, P.	--	85	85	6	--	41.00	--	H	125SBTR	--	--	2403
136-093-14AAA1	MAYER, F.	--	115	115	18	1928	50.00	--	S	125SBTR	--	--	2430
136-093-14AAA2	USGS	--	45	--	--	1968	17.00	08/ /1968	U	125SNLB	--	8.8	2430
136-093-14C6C	MAYER, N.	--	170	110	4	1961	65.00	--	S	125SNLB	--	10.0	2510
136-093-15BCD	ROTH, J.	--	230	145	4	1961	190.00	--	S	125SNLB	2130	--	2590
136-093-17DCC1	MAYER, F.	--	25	0	48	--	22.00	--	S	125SNLB	--	--	2593
136-093-17DCC2	MAYER, F.	--	185	165	4	1958	80.00	--	S	125SBTR	--	--	2593
136-093-17DCC3	MAYER, F.	--	132	52	4	1962	35.00	--	H	125SNLB	--	--	2590
136-093-17DDD	MAYER, L.	--	68	62	4	1965	--	--	H	125SNLB	--	--	2560
136-093-18AAA1	THOMAS, F.	--	82	82	18	1928	37.00	--	H	125SNLB	--	--	2633
136-093-18AAA2	THOMAS, F.	294	290	250	4	1966	100.00	--	S	125SNLB	--	9.3	2635
136-093-19DAA	JORDAN, P.	--	--	0	5	1959	F --	--	U	125SBTR	--	--	2515
136-093-20ABB	MAYER, F.	--	162	127	4	1964	--	--	H	125SNLB	--	--	2560
136-093-20CBB	MAYER, F.	--	283	233	4	1961	80.00	--	S	125TGRV	--	--	2510
136-093-20DAA	BITTENBINDE, C.	--	254	--	6	--	160.00	--	S	125TGRV	--	--	2510
136-093-22AAA1	MAYER	--	110	110	6	1956	120.00	--	H	125SNLB	--	--	2470
136-093-22AAA2	MAYER	--	122	78	4	1960	80.00	--	S	125SNLB	4080	9.0	2473
136-093-23ABB	FRIEDT, A.	--	100	75	6	1916	100.00	--	S	125SNLB	--	8.8	2468
136-093-24BDC	FRIEDT, L.	--	110	110	4	--	20.00	--	H	125SBTR	--	--	2412
136-093-25BBB	3552, NDSWC	220	201	198	1	1967	57.00	--	S	125TGRV	2360	9.5	2421
136-093-26DBB1	FRIEDT, J.	--	24	24	36	--	99.00	11/ /1967	U	125TGRV	--	9.3	2457
136-093-26DBB2	FRIEDT, J.	--	280	280	6	1960	20.00	--	S	125SBTR	--	--	2457
136-093-30ABA1	BITTENBINDER, C.	--	30	--	18	1909	40.00	--	H	125TGRV	--	10.5	2495
136-093-30ABA2	BITTENBINDER, C.	--	60	60	18	--	20.00	--	S	125SNLB	--	--	2495
136-093-30ABA3	BITTENBINDER, C.	--	81	36	4	1960	25.00	--	H	125SNLB	--	--	2498
136-093-30ABA4	BITTENBINDER, C.	--	82	60	4	1967	25.00	--	H	125SNLB	--	--	2498
136-093-32ADC	BURGHART, T.	--	122	92	4	1962	30.00	--	H	125SNLB	--	--	2472
136-093-32CAD	EBNER, N.	--	140	140	6	1912	50.00	--	H,S	125TGRV	--	11.0	2477
136-093-34BCB1	JORDAN, L.	--	120	--	4	--	15.00	--	S	125SBTR	--	11.6	2510
136-093-34BCB2	JORDAN, L.	--	100	90	4	1968	40.00	--	H	125SNLB	888	--	2515
136-093-35AB	AMERADA GROSZ	--	7948	--	9	1958	75.00	--	U	--	--	--	2535
136-094-03CC8	WEGH, J.	--	32	--	18	1931	22.00	08/ /1967	U	125SNLB	--	--	2561
136-094-03DDD	3666, NDSWC	240	224	218	1	1968	127.00	11/ /1968	U	125SNLB	1990	8.5	2568
136-094-04DCC1	KRAUTER, F.	--	21	0	72	1910	14.00	--	S	112TRRC	--	--	2575
136-094-04DCC2	KRAUTER, F.	--	18	18	24	--	16.00	--	H	112TRRC	--	--	2575
136-094-06BBC	WAX, M.	--	85	85	18	--	20.00	--	H,S	125SNLB	--	--	--

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136-094-07AAD	LAMPL, J.	--	160	--	8	--	75.00	--	S	125SNLB	--	10.5	--
136-094-07CCD	DUBITZ, A.	--	86	86	4	1964	40.00	--	H	125SNLB	--	--	--
136-094-08BDC	LAMPL, J.	--	30	0	60	1903	12.00	--	U	125SNLB	--	--	--
136-094-10BDA1	WEGH, J.	--	40	0	72	1907	35.00	--	H	125SNLB	--	--	--
136-094-10BDA2	WEGH, J.	--	141	--	4	1961	55.00	--	S	125SNLB	--	7.7	2580
136-094-10BDD	WEGH, J.	--	120	--	4	--	0.00	--	S	125SNLB	--	--	2583
136-094-11BAC	WELSCH, F.	--	14	0	72	1921	10.00	--	H,S	125SNLB	--	--	2582
136-094-20CCC1	RUTHERFORD, C.	--	213	207	6	1936	90.00	--	U	125SNLB	--	9.3	2540
136-094-20CCC2	RUTHERFORD, C.	--	60	60	12	--	40.00	--	H	125SNLB	--	--	2630
136-094-24CBB1	JAHNER, V.	--	90	90	4	1959	30.00	--	H	125SBTR	--	--	--
136-094-24CBB2	JAHNER, V.	--	90	90	4	1962	30.00	--	S	125SBTR	--	--	2497
136-094-24DDC	JAHNER, F.	--	210	210	4	1955	--	--	H	125TGRV	--	--	2497
136-094-25AAB	JAHNER, F.	--	67	67	4	1964	--	--	S	125SBTR	--	--	2490
136-094-26CBC	JAHNER, S.	--	65	65	6	--	30.00	--	S	125SNLB	--	--	2490
136-094-28BBB1	PEKAS, L.	--	1200	--	6	1942	600.00	--	S	211HLCK	--	12.1	2580
136-094-28BBB2	PEKAS, L.	--	400	400	6	--	110.00	--	H	125TGRV	--	8.8	2600
136-094-28BBB3	PEKAS, L.	--	120	--	6	--	--	--	H	125SNLB	--	--	2600
136-094-30CDC	KOPPINGER, M.	--	120	80	4	1967	73.00	--	S	125SNLB	--	--	2600
136-094-30DBD	KOPPINGER, J.	--	114	--	--	--	29.00	08/ /1967	U	125SNLB	--	--	2696
136-094-31ADD	KOPPINGER, J.	--	80	--	6	--	50.00	--	S	125SNLB	--	--	2660
136-094-31BAB1	KOPPINGER, M.	--	120	120	4	1932	--	--	S	125SNLB	--	12.1	2645
136-094-31BAB2	KOPPINGER, M.	--	122	62	4	1958	85.00	--	H	125SNLB	--	--	2697
136-094-31BAB3	KOPPINGER, M.	--	110	110	4	1964	--	--	S	125SNLB	--	--	2699
136-094-31CDC	WAX, P.	--	265	265	6	1954	80.00	--	U	125SNLB	--	--	--
136-094-32CBA1	KOPPINGER, J.	--	60	60	6	1930	40.00	--	S	125SNLB	--	--	2690
136-094-32CBA2	KOPPINGER, J.	--	180	100	4	1952	110.00	--	H	125SNLB	--	--	2620
136-094-33CBC	PEKAS, D.	--	50	25	4	1960	16.00	--	S	125SNLB	10000	10.6	2620
136-094-34AAB1	JAHNER, K.	--	40	40	24	--	15.00	--	H	125SNLB	--	17.7	2582
136-094-34AAB2	JAHNER, K.	--	80	40	4	1962	25.00	--	S	125SNLB	--	13.8	2542
136-094-34CDA	IGARD, J.	--	30	0	72	--	28.00	--	H	125SNLB	--	--	2540
136-095-02AAD	DASSINGER, G.	--	44	--	18	1950	--	--	H,S	125SNLB	--	--	2570
136-095-06ABA1	DASSINGER, G.	--	27	0	63	1906	15.00	--	S	125SNLB	--	--	--
136-095-06ABA2	DASSINGER, G.	--	150	--	6	1959	--	--	H,S	125SNLB	--	--	2680
136-095-06DDB1	URLACHER, F.	--	25	0	96	--	17.00	--	S	125SNLB	--	--	2680
136-095-06DDB2	URLACHER, F.	--	180	--	4	1948	120.00	--	H	125SNLB	--	--	2680
136-095-10DDC	KREBS, M.	--	81	51	4	1959	25.00	--	H,S	125SNLB	--	--	2680
136-095-11DDA	DASSINGER, P.	--	24	0	60	1906	10.00	--	H,S	125SNLB	--	--	2625
136-095-12DDA	KRAUTER, M.	--	100	100	6	1956	60.00	--	H,S	125SNLB	--	6.0	--
136-095-13AAA	3529, NDSWC	--	300	0	5	1967	--	--	U	BEDROCK	--	--	2605
136-095-14BAB	KREBS, M.	--	60	--	18	--	51.00	06/ /1968	U	125SNLB	--	--	2582
												--	2610

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136-095-18AAA	KAISEN, R.	--	65	65	18	--	35.00	06/ /1968	U	125SNLB	--	8.0	2690
136-095-20CBB	STEINMETZ, I.	--	84	0	18	1926	67.00	06/ /1968	U	125SNLB	--	--	2700
136-095-21BAA	PAHLMEYER, H.	--	110	0	18	--	--	--	H,S	125SNLB	--	8.5	2670
136-095-21BBB	PAHLMEYER, H.	--	73	24	4	1963	21.00	--	U	125SNLB	--	--	2668
136-095-22AAB1	PAHLMEYER, W.	--	65	20	18	1950	--	--	S	125SNLB	--	9.5	2680
136-095-22AAB2	PAHLMEYER, W.	--	120	120	6	1952	--	--	H	125SNLB	--	11.0	2680
136-095-22CBB	WITTE, W.	--	80	0	18	--	--	--	H	125SNLB	--	--	--
136-095-22DDB1	WITTE, L.	--	157	12	18	1908	50.00	--	U	125SNLB	--	--	2720
136-095-22DDB2	WITTE, L.	--	300	270	4	1965	10.00	06/ /1968	H	125TGRV	--	--	2720
136-095-23CCB1	HARTMAN, L.	--	100	--	6	1918	200.00	--	H,S	125SNLB	1080	11.0	--
136-095-23CCB2	HARTMAN, SY	800	751	726	4	08/01/1975	--	--	--	--	--	--	--
136-095-23CCB3	HARTMAN, SY	775	734	714	4	05/17/1976	650.00	08/01/1975	U	--	--	12.5	--
136-095-24BAA	HARTMAN, C.	--	28	--	6	--	360.00	05/17/1976	H	--	1650	--	2660
136-095-24DAA1	MONKE, W.	--	90	70	6	1963	16.00	06/ /1968	U	125SNLB	--	--	2650
136-095-24DAA2	MONKE, WILLIS	360	340	311	49	08/15/1973	--	--	H,S	125SNLB	--	--	--
136-095-26DCC	WITTE, W.	--	120	--	18	--	--	--	U	--	--	--	--
136-095-28BBC1	HARTMAN, R.	--	66	--	6	1950	--	--	--	--	--	--	2700
136-095-28BBC2	HARTMAN, RALPH	80	75	50	5	04/30/1976	78.00	--	S	125SNLB	--	--	--
136-095-28DCC	SWITZER, E.	--	120	120	4	1959	20.00	--	H,S	125SNLB	--	--	--
136-095-29DCD	WITTE, W.	--	60	--	6	--	33.00	04/30/1976	H	--	3000	12.0	--
136-095-31ADD	KREBS	--	60	--	18	--	80.00	--	H,S	125SNLB	--	--	--
136-095-32ABB	DINIUS, D.	--	30	0	60	1914	15.00	--	H	125SNLB	--	9.0	--
136-095-34DAA1	DILL, A.	--	48	40	6	1950	--	--	--	--	--	10.5	--
136-095-34DAA2	DILL, A.	--	60	40	6	1952	40.00	--	H,S	125SNLB	--	9.0	2630
136-096-02CCB	ANTON, G.	--	197	--	4	1966	12.00	--	H	125SNLB	1960	--	2670
136-096-03BAD	ANTON, G.	--	213	--	4	1960	39.00	06/ /1968	H,S	125SNLB	--	--	--
136-096-09ADA	SCHIFF, J.	--	42	--	16	--	30.00	--	S	125SNLB	--	--	--
136-096-11CCC	STAGL, A.	--	30	30	18	1947	1.00	--	H	125SNLB	--	--	--
136-096-12AAB1	URLACHER, F.	--	20	0	48	1912	--	--	--	--	--	--	2785
136-096-12AAB2	URLACHER, F.	--	35	35	18	1961	--	--	S	125SNLB	--	11.0	--
136-096-12AAB3	URLACHER, FRANK	700	656	651	4.50	11/13/1974	150.00	--	H	125SNLB	--	--	--
136-096-13DDC	WILHELM, G.	--	41	--	18	--	30.00	--	H,S	125SNLB	--	11.0	--
136-096-14AAB	SCHRAMBERGER, P.	--	20	0	96	1905	10.00	--	H,S	124GVSB	--	--	--
136-096-15ADD1	KOLLER, C.	--	180	--	6	1916	5.00	--	U	125SNLB	--	--	--
136-096-15ADD2	KOLLER, C.	--	220	205	6	1959	12.00	--	--	--	--	14.0	--
136-096-18ACA	WEHNER, F.	--	48	--	12	--	200.00	11/13/1974	S	--	2940	--	2740
136-096-19DDD	HERBERHOLZ, M.	--	132	30	4	1961	22.00	11/ /1967	S	125SNLB	--	--	2700
136-096-20BBC1	BOEHM, S.	--	65	--	--	1919	8.00	11/ /1967	U	125SNLB	--	--	2770
136-096-20BBC2	BOEHM, S.	--	85	--	6	--	85.00	--	H,S	125SNLB	--	--	2770
136-096-20CDD	STAGL, T.	--	52	40	4	1950	160.00	--	S	125SBTR	--	--	--
							21.00	11/ /1967	U	125SNLB	--	--	2870
							35.00	--	S	125SNLB	864	--	2698
							--	--	H,S	125SBTR	--	--	2785
							25.00	--	H,S	125SNLB	--	--	2590
							26.00	--	H,S	125SNLB	--	--	--

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136-096-24AAA	3719, NDSWC	300	144	138	1	1969	107.00	07/ /1969	U	125SNLB	--	--	2713
136-096-28ABB	STAGL, T.	--	140	--	4	--	--	--	U	125SBTR	--	--	--
136-096-28CCC	GRUNDHAUSER, J.	--	300	300	6	--	200.00	--	S	125SBTR	--	--	--
136-096-30AAC	HERBERHOLZ, M.	--	45	--	18	1964	25.00	--	S	125SNLB	--	--	--
136-096-30AAD1	HERBERHOLZ, M.	--	50	--	18	1949	--	--	H,S	125SNLB	--	--	2680
136-096-30AAD2	HERBERHOLZ, M.	--	50	--	18	--	--	--	S	125SNLB	--	--	2704
136-096-30AAD3	HERBERHOLZ, M.	150	69	24	4	1960	35.00	--	H	125SNLB	--	--	2700
136-096-32BAA1	RATTINGER, N.	--	131	--	4	1961	50.00	--	H	125SNLB	--	--	2704
136-096-32BAA2	RATTINGER, N.	--	325	--	6	1962	--	--	S	125SBTR	--	--	2652
136-097-02ACA	DONGEL, J.	--	213	--	5	1930	86.00	09/ /1967	U	125SNLB	--	--	2652
136-097-03BAD	STEIER, V.	--	200	0	--	1961	--	--	U	BEDROCK	--	--	2820
136-097-03CAD	STEIER, V.	--	413	0	--	--	--	--	U	BEDROCK	--	--	2807
136-097-03CDD1	STEIER, V.	--	50	50	24	--	25.00	--	S	125SNLB	--	--	2829
136-097-03CDD2	STEIER, V.	--	25	--	24	--	--	--	H	125SNLB	--	--	--
136-097-04BAD	KIPP, J.	--	15	--	--	--	8.00	09/ /1967	U	125SNLB	--	--	--
136-097-08BDD	LENHARDT, P.	--	260	230	4	1961	10.00	--	S	125SNLB	--	--	2890
136-097-08CAA1	LENHARDT, P.	--	232	--	4	1912	10.00	--	S	125SNLB	--	--	2800
136-097-08CAA2	LENHARDT, P.	--	27	17	4	1967	14.00	--	H	125SNLB	--	--	2799
136-097-08CAA3	LENHARDT, P.	--	260	240	4	1967	118.00	--	H	125SNLB	--	--	2799
136-097-09AUD1	BETCHNER, N.	--	34	--	24	1948	--	--	S	124GVSB	--	--	2799
136-097-09ADD2	BETCHNER, N.	--	87	81	6	1956	71.00	--	H	125SNLB	--	8.2	--
136-097-10DCD	NICKLUS, N.	--	68	0	24	1910	28.00	09/ /1967	U	124GVSB	--	--	2820
136-097-12AAC	WAHNER, F.	--	275	--	6	1928	60.00	--	H,S	125SNLB	--	--	2804
136-097-12BAB	GARTNER, M.	--	16	0	36	--	7.00	09/ /1967	U	125SNLB	--	9.3	2790
136-097-12CAC	SIMON, A.	--	315	--	4	1924	100.00	--	H,S	125SBTR	--	--	2782
136-097-13BBB	DUBISAR, F.	--	300	--	6	1915	200.00	--	S	125SBTR	--	--	--
136-097-14AAA	DUBISAR, F.	--	13	0	48	--	8.00	09/ /1967	S	125SNLB	--	--	--
136-097-14CBC1	WERT, M.	--	255	--	6	1958	150.00	--	H,S	125SNLB	--	10.5	2895
136-097-14CBC2	WERT, MARVIN	298	263	223	4.50	08/19/1975	188.00	08/19/1975	H	--	1410	--	2790
136-097-14DAC	STEPHAN, F.	--	52	--	24	1907	10.00	--	H	125SNLB	--	13.0	--
136-097-15CDD	MADLER, DAVID	48	48	--	24	10/06/1975	25.00	10/06/1975	S	--	2500	10.0	--
136-097-15DAD	3533, NDSWC	320	201	198	1	1967	132.00	10/ /1967	U	125SNLB	1520	7.0	2758
136-097-16CCC	JIRGES, A.	--	40	40	18	1948	28.00	--	H,S	125SNLB	--	--	--
136-097-17ADA1	HEISER, J.	--	34	34	6	--	9.00	09/ /1967	U	125SNLB	--	--	2741
136-097-17ADA2	HEISER, J.	--	189	--	6	1914	125.00	09/ /1967	U	125SNLB	--	--	2745
136-097-18DDA	JIRGES, F.	--	127	--	6	1916	74.00	09/ /1967	U	125SNLB	--	--	2764
136-097-22CCD	URLACHER, JOHN	120	120	--	5	02/01/1973	70.00	02/01/1973	H	--	2890	16.0	--
136-097-22DDC	MADLER, CARL	121	120	--	5	04/22/1972	35.00	04/22/1972	H	--	1170	16.0	--
136-097-25CCD1	STAGL, F.	--	280	--	6	1928	100.00	--	S	125SBTR	--	--	--
136-097-25CCD2	STAGL, F.	--	85	85	6	--	--	--	H	125SNLB	--	--	--

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
136-097-26BCC1	MADLER, JUSEPH	135	63	53	5	08/14/1975	23.00		08/14/1975	U	--	--	--	--
136-097-26BCC2	MADLER, JOSEPH	920	890	850	2	11/02/1978	210.00		11/02/1978	H	--	2340	16.0	--
136-097-29ACA	KREBS, J.	--	240	--	5	--	70.00		--	H,S	125SBTR	--	10.0	--
136-097-31DDD	EHLIS, RONALD	110	92	--	49	04/04/1979	51.00		04/04/1979	H	--	1830	13.5	--
136-097-32CBB	ENGLAND, NEW	--	170	140	4	1967	3.00		--	H	125SNLB	1860	7.5	2586
136-097-32DAB	FITTERER, A.	--	76	--	6	1965	46.00		--	S	125SNLB	--	9.5	2610
136-097-32DBA	FITTERER, A.	--	67	6	24	1945	60.00		--	H	125SNLB	--	--	--
136-097-33DCC	ENGLAND S, NEW	--	104	--	6	--	70.00		--	P	125SNLB	1910	8.9	2600
136-097-34ADB	BOHLMAN, J.	--	135	135	6	1926	--		--	H,S	125SNLB	--	11.0	--
136-097-34CCB	KREBS, J.	--	190	101	5	--	75.00		--	H,S	125SNLB	--	--	2612
136-097-34DDD	EST., PLETAN	--	69	--	4	1946	59.00		--	S	125SNLB	--	--	2621
136-098-01BAA	USGS	280	220	208	2	08/11/1976	134.53	R	11/09/1976	U	125SNLB	1550	9.0	2765
136-098-02CDC1	EHLIS, GEORGE	180	180	150	5	03/18/1975	83.00		03/18/1975	H,S	--	1780	17.0	--
136-098-02CDC2	EHLIS, GEORGE	160	160	130	4	01/08/1981	98.00		01/08/1981	S	--	--	--	--
136-098-05AAA	USGS	220	207	195	2	08/11/1976	120.72	R	08/11/1976	U	125TGRV	3500	9.0	2715
136-098-15AAA	USGS	180	151	145	2	08/10/1976	77.85	R	11/09/1976	U	125TGRV	1800	10.0	2670
136-098-15CBB	NDSWC 4948	120	--	--	--	08/10/1976	--		--	--	--	--	--	2610
136-098-23AAB	ZENKER, WILMER	202	202	164	4	11/05/1970	60.00		11/05/1970	S	125TRVL	1600	11.0	2460
136-098-26CDC	O'CONNELL, MAURICE	140	140	98	5	09/11/1972	63.00		09/11/1972	S,H	125TRVL	3000	8.5	2625
136-098-27BCC	OLSON, CLIFFORD	155	155	--	4	06/22/1975	--		--	U	--	--	--	--
136-098-33CCD	RANDICH, JOHN	120	120	75	4	05/24/1973	63.00		05/24/1973	S	125SNLB	2390	11.0	--

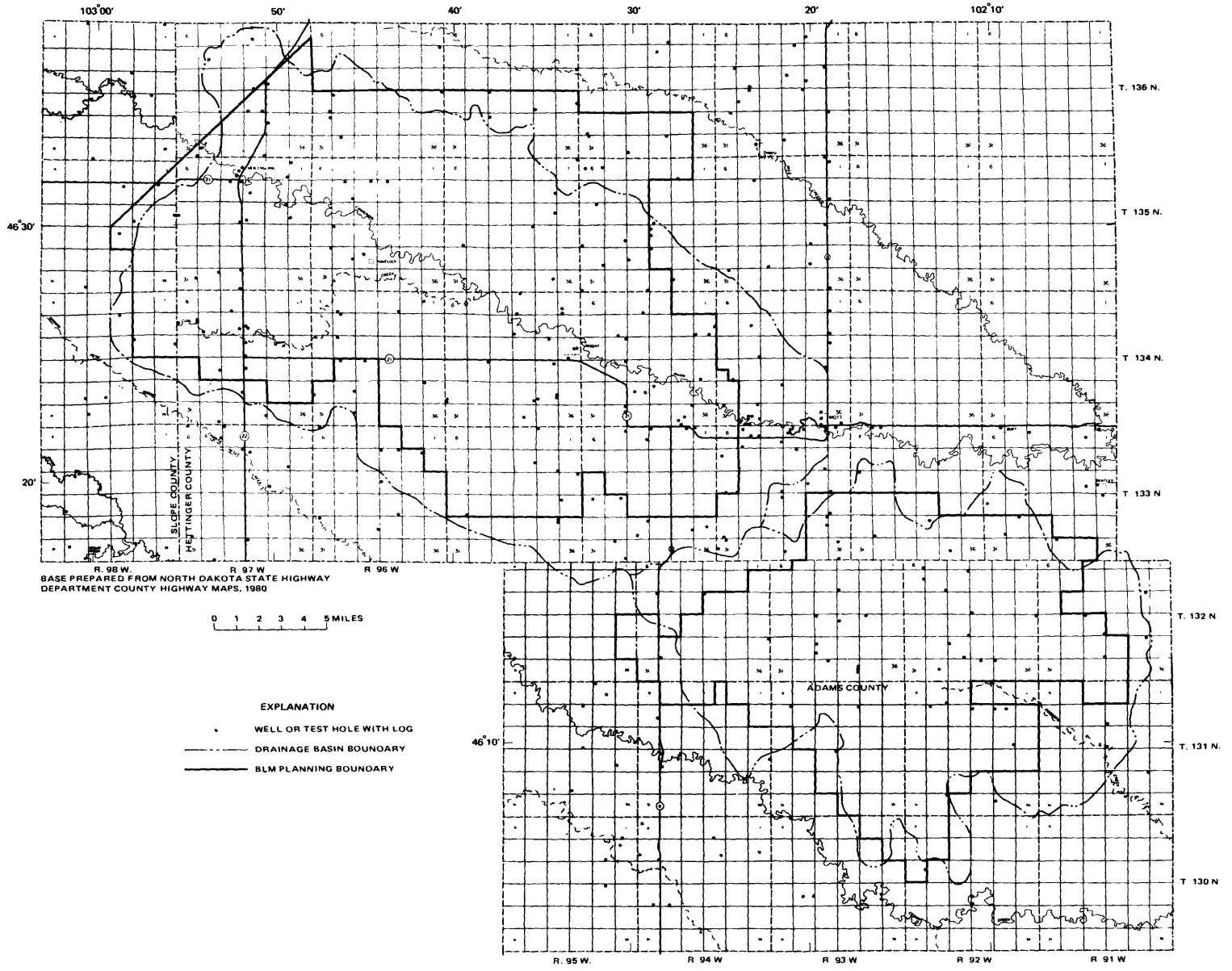

FIGURE 7.—Location of wells or test holes with logs in the New England-Mott coal area.

TABLE 5.--Logs of wells and test holes in the New England-Mott coal area.

131-092-05DDD
NDSWC 4970
Date drilled: 08/20/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, moderate-yellowish-brown to brown, very silty	15	15
Clay, medium-light-gray to medium-dark-gray, very silty, moderately cohesive, brittle, carbonaceous	38	53
Lignite, black to reddish-black, hard, brittle; with shale partings; dry	8	61
Clay, chocolate-brown to medium-dark-gray, very silty, brittle, carbonaceous, slightly bentonitic	45	106
Lignite, black, hard, brittle	3	109
Sand, medium-gray to greenish-gray, silty, very fine to fine, rounded, well-sorted	20	129
Clay, very silty, sandy; poor sample returns	11	140

131-092-14DDA
(Log modified from Knutson Well Drilling)
Date drilled: 01/02/73

Clay	6	6
Clay, sandy	19	25
Coal	7	32
Clay	4	36

131-092-32AAA2
(Log modified from Ellison Drilling)
Date drilled: 08/21/75

Sand, red	10	10
Sand, white	6	16
Black jack	6	22
Rock	1	23
Shale, white	5	28
Sand, white	15	43
Shale	7	50
Rock	1	51
Coal	2	53
Shale	17	70
Sand; water	48	118
Rock	1	119
Sand	19	138

132-092-08DDD
NDSWC 4968
Date drilled: 08/19/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, moderate-yellowish-brown to medium-brown, silty, moderately cohesive, oxidized	7	7
Lignite, black, hard, brittle; moist	3	10
Clay, medium-light-gray to medium-gray, very silty, moderately cohesive, brittle; dry	7	17
Sand, medium-gray, very fine, very silty, rounded, well-sorted	4	21
Clay, medium-light-gray to medium-dark-gray, very silty, moderately cohesive; lignite layers at 23, 27, and 38 feet.	25	46
Lignite, black, hard, brittle; dry	4	50
Clay, medium-light-gray to medium-dark-gray, very silty, moderately cohesive; with lignite from 54 to 55, 65 to 68 and 72 to 73 feet;	34	84
Sand, medium-gray to bluish-gray, very fine to fine, rounded, well-sorted; sandstone ledge from 90 to 92 feet	62	146
Clay, medium-light-gray to medium-dark-gray, very silty, moderately cohesive	14	160

132-092-28BCB
NDSWC 4969
Date drilled: 08/20/76

Gravel, fine to coarse, angular to subrounded, clayey	3	3
Clay, moderate-yellowish-brown to medium-brown, very silty, slightly sandy, cohesive, sticky, oxidized	4	7
Lignite, black to reddish-black, hard, brittle; dry	7	14
Clay, medium-light-gray to medium-dark-gray, very silty, cohesive, slightly plastic to brittle, slightly carbonaceous	29	43
Sand, medium-gray to bluish-gray, very fine to fine, rounded, well-sorted, silty	21	64
Clay, medium-gray to medium-dark-gray, very silty, cohesive, brittle, bentonitic, slightly carbonaceous	16	80

132-092-34BAA2
(Log modified From Gil's Pump Service)
Date drilled: 07/11/75

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Sand, yellow	30	31
Sand, blue; water	26	57
Clay, gray	3	60
Lignite	18	78
Clay	2	80

132-092-35BBB
(Log modified from Knutson Well Drilling)
Date drilled: 05/29/80

Topsoil	2	2
Sandy	39	41
Coal	3	44
Clay	2	46

132-093-10CCC1
NDSWC 4965
Date drilled: 08/19/76

Sand, very fine to fine, predominantly fine, rounded, well-sorted, oxidized	30	30
Lignite, black, hard, brittle; making about 10 gallons per minute	8	38
Clay, medium-light-gray to medium-gray, very silty, cohesive, brittle, bentonitic, carbonaceous	31	69
Sand, medium-gray to bluish-gray, very fine, silty, rounded, well-sorted; making lots of water	48	117
Lignite, black, hard, brittle; saturated	3	120
Sand, medium-gray to bluish-gray, very fine, silty, rounded, well-sorted; with clayey section at 130 feet	23	143
Clay, medium-gray to medium-dark-gray, silty, sandy	17	160

131-092-35BCB
(Log modified from Main and Ellison)
Date drilled: 12/ /73

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, brown	30	30
Coal	4	34
Shale, white	21	55
Coal	4	59
Shale	59	118
Sand; water	25	143

132-091-21BBB
(Log modified from B and M Drilling)
Date drilled: 12/13/73

Topsoil	2	2
Sand, red	12	14
Sand, brown	26	40
Sandstone, medium hard	3	43
Sand, brown	35	78

132-091-26AAB
(Log modified from Moe Well Drilling)
Date drilled: 08/07/74

Sand, yellow	13	13
Coal	2	15
Clay, gray	10	25
Coal	1	26
Clay, gray	4	30
Coal	5	35
Clay, gray	43	78
Rock	3	81
Clay, gray	3	84
Sand, gray, chunky	56	140

132-092-06DDD3
(Log modified from B and M Drilling)
Dated drilled: 08/12/72

Topsoil	2	2
Sand, yellow	2	4
Clay, gray	10	14
Sand, gray	4	18
Lignite	7	25
Clay, brown	14	39
Clay, gray	93	132
Clay; with lignite streaks	38	170
Sand, gray, fine	20	190

132-093-21BBB
NDSWC 4966
Date drilled: 08/19/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, moderate-yellowish-brown to medium-brown, silty, slighty sandy, oxidized	4	4
Lignite, black	3	7
Clay, medium-light-gray to medium-gray, very silty, moderately cohesive, brittle, bentonitic; small lignite seam at 15 feet	12	19
Lignite, black, soft; rather sticky; making water	4	23
Clay, medium-light-gray to bluish-gray, very silty, bentonitic	24	47
Sandstone, indurated	1	48
Sand, medium-gray to greenish-gray, very fine to fine, rounded, well-sorted	12	60

132-093-22BCB2
(Log modified from Moe Well Drilling)
Date drilled: 10/17/75

Clay, yellow, sandy	5	5
Coal, soft	5	10
Clay, gray	26	36
Sand	42	78

132-093-33ABB
(Log modified from B and M Drilling)
Date drilled: 05/26/73

Clay, yellow	10	10
Sand, yellow	4	14
Clay, light-gray	10	24
Clay, brown	7	31
Clay, gray	2	33
Clay, brown	25	58
Sand, brown	10	68
Silt, gray	21	89
Clay, gray	4	93
Sand, brown, tight	12	105
Silt, gray	12	117
Lignite	2	119
Clay, gray	7	126
Lignite	2	128
Clay, brown	17	145
Clay, gray	26	171
Clay, green	2	173
Clay, gray	9	182
Sand, gray	39	221

132-093-34DAA2
(Log modified from Moe Well Drilling)
Date drilled: 05/04/72

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, yellow, sandy	17	17
Clay, gray	11	28
Coal	10	38
Clay, gray	1	39
Coal; dry	1	40
Rock, gray, soft	1	41
Clay, gray	29	70
Clay, green	3	73
Clay, gray	7	80
Coal	3	83
Sand, gray, medium coarse	28	111

132-094-25AAA
NDSWC 4967
Date drilled: 08/19/76

Clay, moderate-yellowish-brown to brownish-gray, very silty, slightly sandy, sticky	11	11
Lignite, black, hard, brittle; saturated	5	16
Clay, medium-gray to medium-dark-gray, very silty, moderately cohesive, very carbonaceous	6	22
Lignite, black, hard, brittle; saturated	11	33
Clay, medium-gray to brownish-gray, very silty, brittle, carbonaceous	7	40

133-092-29CCC2
NDSWC 4964
Date drilled: 08/18/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, medium-brown to yellowish-brown, very silty, moderately cohesive, brittle, oxidized; very sandy 0 to 3 feet----------	22	22
Clay, medium-gray to medium-dark-gray, silty, slightly cohesive, brittle, carbonaceous; sandstone ledge at 31 feet--	28	50
Lignite, black, hard, brittle; dry----------	6	56
Clay, medium-gray to medium-dark-gray, very silty, slightly cohesive, brittle, carbonaceous----------	58	114
Lignite, black, hard, brittle; dry----------	6	120
Clay, medium-gray to greenish-gray, silty, brittle, bentonitic----------	17	137
Sand, very fine to medium, silty, rounded, well-sorted----------	25	162
Clay, medium-gray to medium-dark-gray, silty, cohesive, brittle, bentonitic, carbonaseous; lignite seam at 185 feet----	41	203
Sand, medium-light-gray to medium-gray, silty, very fine to fine,----------	37	240

133-093-05ADD2
(Log modified from Moe Well Drilling)
Date drilled: 07/23/73

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, yellow	36	36
Rock, gray	6	42
Sand, yellow	41	83
Clay, black	3	86
Coal	1	87
Clay, light-gray, silty	10	97
Coal	1	98
Clay, gray, silty	9	107
Coal	3	110
Clay, gray	12	122
Sand, light-green, chunky	49	171
Clay, gray	32	203
Sand, gray, chunky	12	215
Coal	5	220
Sand, gray	41	261
Clay, gray, silty	32	293
Rock, gray, hard	2	295
Sand, gray, silty	30	325
Clay, gray	71	396
Sand, silty	6	402
Clay, green, sandy	48	450
Rock, light-green, medium hard	2	452
Sand, light-green, medium	26	478
Clay, light-brown	5	483

133-093-10ABB3
(Log modified from B and M Drilling)
Date drilled: 05/27/73

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand and gravel	25	25
Clay, gray	29	54
Lignite	1	55
Clay, gray	16	71
Rock, medium hard	1	72
Clay, gray	14	86
Sand, brown	6	92
Clay, brown	19	111
Lignite	6	117
Clay, gray	8	125
Clay; with lignite streaks	18	143
Sand, brown	31	174
Sand, green	19	193
Clay, gray	134	327
Sand, dark-green, tight	18	345
Clay, gray	31	376
Sand, silty	2	378
Rock, very hard	4	382
Sand, green	52	434
Sandstone	2	436
Sand, green	7	443

133-093-14CBB2
(Log modified from Gilbert Mehrer)
Date drilled: 07/16/74

Topsoil	1	1
Clay, gray	9	10
Clay, yellow	6	16
Lignite	1	17
Clay, gray	3	20
Sand; dry	4	24
Clay, gray	10	34
Lignite	3	37
Clay, brown	1	38
Clay, gray	50	88
Lignite	1	89
Clay, gray	48	137
Sandstone, hard	1	138
Sand, brown	20	158

133-093-16DDD
(Log modified from B and M Drilling)
Date drilled: 08/08/72

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	2	2
Clay	23	25
Lignite	7	32
Clay, brown	10	42
Rock, medium hard	1	43
Clay, gray	15	58
Sand, gray, fine	11	69
Lignite	2	71
Clay, gray	3	74
Sand, gray	24	98

133-093-18DDD
(Log modified from B and M Drilling)
Date drilled: 04/30/73

Topsoil	4	4
Sand and gravel	12	16
Rock, yellow	2	18
Sand, coarse	24	42
Silt	10	52
Lignite, hard	6	58
Clay, gray	18	76
Clay, blue	3	79
Clay, gray	18	97
Clay, green	13	110
Clay, gray	42	152
Lignite	1	153
Clay, brown	6	159
Clay, gray	10	169
Rock, very hard	1	170
Sand, light-gray, medium coarse	46	216

133-093-26ADD
(Log modified from Moe Well Drilling)
Date drilled: 04/25/74

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, yellow	21	21
Clay, gray	10	31
Coal	1	32
Sand, gray	5	37
Clay, gray	44	81
Coal	2	83
Clay, light-gray	38	121
Clay, green	5	126
Sand, gray, medium fine	45	171
Rock, gray	2	173
Sand, light-gray, chunky	39	212
Clay, light-gray	13	225
Coal	3	228
Clay, light-brown, silty	73	301
Sand, light-gray	7	308
Rock, yellow	1	309
Clay, light-gray	94	403
Sand, dark-green, chunky	7	410
Rock, gray, hard	2	412
Clay, light-gray	5	417
Rock, light-green, medium hard	1	418
Clay, light-green, silty	10	428
Rock, light-green	1	429
Sand, green, medium coarse	15	444
Rock, green, medium hard	1	445
Sand, gray, chunky	17	462

133-094-04DAA3
(Log modified from Moe Well Drilling)
Date drilled: 08/07/76

Clay, yellow	36	36
Coal	4	40
Clay	46	86
Coal	8	94
Sand	40	134
Clay	19	153
Coal	9	162
Sand	133	295
Clay, light-brown	2	297
Sand	63	360
Clay, silty	172	532
Sand, gray, medium to fine	68	600

133-094-05AAD
(Log modified from Moe Well Drilling)
Date drilled: 10/28/74

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Old well	120	120
Clay, gray	21	141
Clay, gray, sandy	13	154
Coal, medium hard	7	161
Clay, gray	4	165
Silt, light-gray	14	179
Clay, light-gray	53	232
Clay, dark-gray	124	356
Clay, gray, sandy	6	362
Clay, gray	34	396
Clay, gray, sandy	40	436
Rock	2	438
Sand, gray, medium fine	21	459
Rock	1	460
Sand, green	5	465
Sand, gray	10	475

133-094-32BAA
(Log modified from Roth Excavation)
Date drilled: 04/30/74

Clay, yellow	8	8
Coal slack	2	10
Clay, gray	16	26
Silt, gray	10	36
Clay, gray	10	46
Clay, brown	2	48
Lignite	4	52
Clay, gray	8	60
Lignite	2	62
Clay, brown	2	64
Silt, gray	6	70
Sand, gray, fine	11	81
Sand, gray, medium coarse	39	120

133-095-26AAA
(Log modified from Moe Well Drilling)
Date drilled: 06/15/74

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, yellow	42	42
Sandstone, yellow	1	43
Sand, yellow	14	57
Sand, gray, very fine, chunky	6	63
Sandstone, gray	1	64
Sand, gray, chunky	71	135
Sand, gray, medium fine	14	149
Coal	5	154
Clay, gray	7	161

134-094-12CCC
(Log modified from Moe Well Drilling)
Date drilled: 08/06/74

Clay, yellow, sandy	22	22
Clay, gray	9	31
Clay, green	7	38
Clay, gray	17	55
Coal	2	57
Clay, gray	2	59
Clay, gray, sandy	18	77
Clay, gray	4	81
Coal	3	84
Clay, gray	1	85
Coal	2	87
Clay, gray	2	89
Coal	1	90
Clay, gray	1	91
Coal	6	97
Clay, green	3	100
Clay, gray	29	129
Sand, gray, medium fine	130	259
Clay, light-gray, silty	19	278
Sand, gray	42	320
Clay, light-gray	44	364
Sand, grayish-white	16	380
Clay, white, silty	60	440
Sand, light-gray green	55	495
Clay, light-brown, silty	162	657
Sand, light-gray,	8	665
Rock, gray, medium hard	3	668
Sand, light-gray, medium	32	700

134-094-20AAA
(Log modified from B and M Drilling)
Date drilled: 04/22/73

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Sand, yellow	2	3
Gravel	11	14
Sand, brown	8	22
Rock	1	23
Sand, brown	7	30
Sand, gray	14	44
Clay, gray	10	54
Lignite	2	56
Clay, gray	5	61
Silt, clayey	11	72
Clay, gray	23	95
Silt, clayey	19	114
Sandstone	2	116
Clay, gray	6	122
Sand, brown	12	134
Clay, brown	4	138
Lignite	3	141
Clay, light-gray	16	157
Sand, gray	24	181
Clay	1	182
Lignite	2	184

134-094-32ADA
(Log modified from Gilbert Mehrer)
Date drilled: 07/25/74

Sand, yellow	14	14
Clay, yellow	22	36
Lignite	1	37
Clay, gray, silty	27	64
Clay, gray	26	90
Rock	1	91
Clay, gray	33	124
Clay, green	6	130
Clay, gray, silty	7	137
Lignite	4	141
Clay, gray to green	7	148
Clay, brown and gray mixed	34	182
Lignite	6	188
Clay, gray	31	219
Lignite	9	228
Clay, gray	4	232
Clay, green	12	244
Sand, brown, fine	56	300
Clay, brown	20	320

134-094-35AAA
(Log modified from Moe Well Drilling)
Date drilled: 06/19/72

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand and gravel	15	15
Clay, yellow	1	16
Coal slack	3	19
Clay, gray	9	28
Coal	1	29
Clay, gray	16	45
Rock, yellow, soft	1	46
Clay, gray	10	56
Coal	2	58
Clay, gray	27	85
Coal	2	87
Clay, gray	44	131
Coal	1	132
Clay, brown	3	135
Coal	8	143
Clay, gray	36	179
Sand, light-gray, very fine	39	218
Clay, gray	8	226
Sand, white, coarse	29	255
Clay, gray	5	260

134-094-35CDD
(Log modified from Moe Well Drilling)
Date drilled: 06/27/74

Clay, yellow	35	35
Clay, gray	49	84
Coal	8	92
Clay, gray, sandy	34	126
Sand, gray, very tight	31	157
Clay, gray	7	164
Coal	9	173
Clay, gray, sandy	24	197
Clay, gray	6	203
Coal	6	209
Clay, gray	49	258
Rock, gray, medium hard	1	259
Clay, gray, silty	26	285
Clay, green	7	292
Sand, light-grayish-brown	23	315
Coal	2	317
Sand, light-grayish-brown	3	320

134-095-13ADC
(Log modified from Frederickson's Inc.)
Date drilled: 08/15/72

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	2	2
Clay, blue	18	20
Coal	8	28
Clay	4	32
Coal	3	35
Clay	177	212
Coal and clay	5	217
Clay	233	450
Limestone and clay	80	530
Sand	10	540
Shale	100	640
Clay to sandy clay	30	670
Sand, clayey	31	701
Shale, clayey; with trace of coal	119	820
Sand	2	822
Shale, clayey; with trace of coal	208	1030
Sand	36	1066
Sand and clay	60	1126
Sand	24	1150
Shale, blue	7	1157

134-095-26CBC2
(Log modified from Moe Well Drilling)
Date drilled: 02/11/74

Clay, yellow, silty	22	22
Sand, gray, chunky	7	29
Clay, gray	28	57
Coal	1	58
Clay, gray	20	78
Clay, gray, silty	13	91
Clay, light-gray	38	129
Coal	2	131
Clay, gray	9	140
Sand, gray, chunky	8	148
Coal	24	172
Clay	6	178

134-095-26DAA
(Log modified from Moe Well Drilling)
Date drilled: 07/10/72

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Old well	410	410
Clay, gray, very tight	74	484
Sandstone, gray	2	486
Clay, gray, silty	43	529
Sandstone, gray	2	531
Clay, gray, silty	10	541
Sand, gray, medium to coarse	14	555
Sandstone	3	558
Sand, gray	26	584
Clay, gray	8	592

134-095-27DDA
(Log modified from Moe Well Drilling)
Date drilled: 10/13/75

Clay, light-brown, sandy	15	15
Coal slack	1	16
Clay, gray	7	23
Rock, soft	1	24
Clay, gray	12	36
Coal	1	37
Clay, gray	28	65
Coal	2	67
Clay, brown	14	81
Clay, gray	3	84
Coal	1	85
Clay, gray	18	103
Sand, gray	3	106
Clay, gray	19	125
Rock, medium hard	1	126
Clay, gray	17	143
Rock, medium soft	2	145
Sand, gray	2	147
Clay, gray	16	163
Coal, hard	18	181
Clay, brown	19	200

134-095-30CCB
(Log modified from Gregory Drilling Co.)
Date drilled: 06/13/79

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, gray	10	10
Rock	1	11
Clay, brown	4	15
Coal	2	17
Clay, gray	8	25
Clay, brown, sandy	12	37
Clay, gray	15	52
Coal	3	55
Clay, gray	80	135
Clay, olive-green	6	141
Clay, gray, silty, sandy	20	161
Sand, silty, fine	34	195
Sandstone	1	196
Sand, gray, fine, very clear	25	221
Clay, gray	9	230

134-096-01BCC
NDSWC 4960
Date drilled: 08/17/76

Sand, very fine to fine, rounded, well-sorted, clayey, predominantly quartz, highly oxidized	15	15
Clay, moderate-yellowish-brown, very silty, slightly sandy, oxidized	8	23
Sandstone ledge, highly indurated and cemented	3	26
Sand, very fine to fine, rounded, well-sorted; turned medium-gray at 30 feet	16	42
Clay, medium-gray to medium-dark-gray, very silty, brittle, slightly carbonaceous	17	59
Lignite, black, hard, brittle	11	70
Clay, medium-gray to medium-dark-gray, very silty, brittle, carbonaceous; ledge from 88 to 89 feet	30	100

134-096-08BAB
NDSWC 4961
Date drilled: 08/17/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, moderate-yellowish-brown to olive-gray, silty, cohesive, brittle, oxidized	12	12
Lignite, black to reddish-black, moderately hard, brittle; dry	8	20
Clay, moderate-yellowish-brown to olive-gray, very silty, cohesive, bentonitic	2	22
Clay, medium-light-gray to olive-gray, silty, slightly sandy, moderately cohesive, bentonitic, micaceous	48	70
Clay, greenish-gray, silty, slightly sandy, moderately cohesive, bentonitic, micaceous	58	128
Sand, medium-gray to greenish-gray, very fine, clayey, rounded, well-sorted	32	160

134-096-17BBA
(Log modified from Mann Drilling Co.)
Date drilled: 01/17/73

Silt, tan	30	30
Lignite	2	32
Clay	32	64
Lignite	4	68
Clay	4	72
Lignite	5	77
Clay	144	221
Lignite	19	240
Clay	32	272
Sand	28	300

134-096-20BAB
(Log modified from Kruger Drilling Co.)
Date drilled: 01/27/73

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay	72	72
Sand	8	80
Clay	35	115
Coal; 3 gallons per minute	2	117
Clay	26	143
Coal; 3 gallons per minute	4	147
Clay, sandy	36	183
Rock	3	186
Clay	57	243
Rock	2	245
Clay	65	310
Clay, sandy	10	320
Sand	3	323

134-096-21BAA2
(Log modified from Moe Well Drilling)
Date drilled: 03/14/74

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, yellow	25	25
Rock	1	26
Coal and clay layers	16	42
Coal	2	44
Clay, light-gray	8	52
Clay, gray	16	68
Coal	4	72
Clay, gray	30	102
Clay, light-green	67	169
Rock, gray, hard	2	171
Clay, gray	7	178
Rock, gray, medium hard	5	183
Sand, gray, very fine	40	223
Clay, gray, very silty	25	248
Rock, medium soft	8	256
Sand, gray, silty	82	338
Rock	5	343
Sand, gray	5	348
Rock, gray	5	353
Clay, gray, silty	87	440
Clay, brown	23	463
Clay, brown, silty	120	583
Clay, gray, silty	30	613
Clay, gray	12	625
Clay, gray, silty	20	645
Sand, white	30	675
Rock, gray	1	676
Clay, gray	92	768
Clay, gray, silty	29	797
Coal	2	799
Sand, light-gray	21	820
Rock	1	821
Sand, light-green	79	900
Rock, gray, very hard	3	903
Clay, gray, very silty	79	982
Sand, light-gray; brown water	30	1012
Clay, light-brown	63	1075
Sand, light-gray, medium to fine	8	1083
Clay, light-gray	15	1098
Sand, gray	61	1159
Sand, light-gray, silty	13	1172
Sand, gray	4	1176
Clay, light-gray	12	1188
Clay, gray, silty	9	1197
Coal	1	1198
Clay, light-brown	32	1230
Sand, gray, very fine	4	1234
Clay, gray	16	1250

134-096-29ADD2
(Log modified from Moe Well Drilling)
Date drilled: 05/21/75

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, yellow, sandy	22	22
Rock, soft	1	23
Clay, gray	21	44
Coal	4	48
Clay, gray, sandy	3	51
Clay, gray	26	77
Coal	2	79
Sand, gray	13	92
Rock, medium hard	2	94
Sand, gray	15	109
Coal	2	111
Clay, gray	31	142
Coal	5	147
Clay, gray	23	170
Rock, very hard	2	172
Clay, gray	40	212
Coal	2	214
Clay, gray	68	282
Clay, green	9	291
Clay, gray	26	317
Sand and very thin clay layers	30	347
Coal	4	351
Clay, gray	54	405
Rock	1	406
Clay, gray	59	465
Clay, gray, sandy	20	485
Rock, gray, soft	6	491
Sand, light-gray, chunky	10	501
Rock, gray, medium hard	1	502
Sand, light-gray, chunky	7	509
Clay, gray	27	536
Rock	1	537
Sand, gray	15	552
Clay, gray, silty	95	647
Rock	1	648
Clay, gray	19	667
Rock, very hard	1	668
Clay, gray	23	691
Clay, light-gray	103	794
Clay, brownish-gray, sandy	18	812
Rock	2	814
Clay, gray, sandy	2	816
Clay, gray	2	818

134-096-29ADD2-Cont.
(Log modified from Moe Well Drilling)
Date drilled: 05/21/75

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, light-gray, very fine	106	924
Rock	4	928
Sand, gray, chunky	10	938
Rock	1	939
Sand, light-gray, chunky	3	942
Clay, gray	42	984
Sand, very light-gray; almost white	13	997
Clay, gray	6	1003
Clay, gray, silty	52	1055
Rock, gray, medium hard	1	1056
Sand, gray, medium fine	10	1066
Rock, gray-green, medium hard	4	1070
Sand, light-gray, very fine	8	1078
Sand, light-gray	9	1087
Clay, gray	60	1147
Sand, light-gray; dry	31	1178
Clay, light-gray, silty	4	1182
Sand, light-gray	4	1186
Clay, light-brown	14	1200
Sand, blue-green	30	1230
Clay, light-brown	5	1235
Sand, blue-green	8	1243
Rock, soft	4	1247
Sand, blue-green	7	1254
Rock	2	1256
Sand, blue-green, medium coarse	11	1267
Clay, gray	13	1280

134-096-30CBB
(Log modified from Mann Drilling Co.)
Date drilled: 01/31/73

Clay, tan, sandy	19	19
Sandstone	2	21
Clay, gray	83	104
Coal	12	116
Clay, gray	64	180
Sandstone	2	182
Sand	18	200

134-097-04CDD
(Log modified from Russell Drilling Co.)
Date drilled: 07/21/81

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, oxidized	8	8
Shale, gray	48	56
Shale, brown and coal	17	73
Shale, gray	37	110
Sand, gray, silty	23	133
Limestone	2	135
Sand, gray, silty	12	147
Coal	15	162
Shale, gray	53	215
Shale, gray, silty	57	272
Coal	5	277
Sand, light-gray, silty	23	300
Limestone	2	302
Silt, light-gray	28	330
Coal	13	343
Silt, gray	12	355
Sand, gray	87	442

134-097-10CBB
(Log modified from B and M Drilling)
Date drilled: 01/19/73

Topsoil	2	2
Clay, yellow	3	5
Sandstone	2	7
Sand, yellow-gray	6	13
Clay, gray	8	21
Lignite, hard; dry	13	34
Clay, brown	1	35
Clay, gray	70	105
Sand	12	117

135-094-06BCD2
(Log modified from B and M Drilling)
Date drilled: 03/03/73

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Clay	24	25
Lignite slack	1	26
Clay, gray	30	56
Rock	3	59
Clay, gray	12	71
Lignite	2	73
Clay	23	96
Lignite	7	103
Clay, gray	10	113
Lignite	3	116
Clay, gray	10	126
Lignite	3	129
Clay, gray	6	135
Lignite	3	138
Clay, gray	3	141
Lignite	3	144
Clay, gray	24	168
Rock	1	169
Clay, green	13	182
Sand, fine	18	200
Rock, very hard	2	202
Sand, green	28	230

135-094-15CCD
(Log modified from Gregory Drilling Co.)
Date drilled: 09/29/81

Sand, brown	28	28
Shale, brown	2	30
Sand, brown	27	57
Sand, blue	18	75
Coal	10	85
Shale, gray	43	128
Coal	2	130
Shale, gray	50	180
Sand, blue	69	249
Sandstone	1	250
Shale, gray	5	255

135-094-18ABA
(Log modified from Gilbert Mehrer)
Date drilled: 05/01/74

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand	8	8
Clay, brownish-gray	10	18
Lignite	4	22
Clay, brown	6	28
Lignite	3	31
Clay, brown	2	33
Clay, gray	1	34
Lignite	2	36
Clay, brown	1	37
Lignite	1	38
Clay, gray	3	41
Sand, gray, fine	8	49
Clay, brown	2	51
Clay, gray	5	56
Sand, silty; dry	16	72
Lignite	8	80

135-094-22BBC
(Log modified from Gregory Drilling Co.)
Date drilled: 01/06/78

Clay, brown, sandy	2	2
Clay, yellow and brown	36	38
Clay, brown; with coal layers	10	48
Clay, blue	10	58
Clay, gray	19	77
Clay, brown	8	85
Clay, gray	43	128
Coal	3	131
Clay, gray	19	150
Clay, blue	6	156
Sand, blue and gray, medium coarse; with very fine layers of soft sandstone	49	205
Clay, gray	10	215

135-094-22BCC2
(Log modified from Gregory Drilling Co.)
Date drilled: 01/02/78

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, brown, sandy	2	2
Clay, brown	7	9
Rock	1	10
Clay, yellow and brown	20	30
Clay, gray	39	69
Coal	6	75
Clay, gray	5	80
Clay, blue	10	90
Clay, blue; sandy streaks	10	100
Sand, blue, clayey	21	121
Clay, gray	14	135

135-094-35BCC
(Log modified from Gregory Drilling Co.)
Date drilled: 09/23/81

Shale	21	21
Coal	2	23
Shale	31	54
Coal	1	55
Shale	70	125
Coal	5	130
Shale	2	132
Coal	1	133
Shale	9	142
Sand, blue	30	172
Sandstone	3	175
Sand, blue	45	220

135-096-09ABA
NDSWC 4959
Date drilled: 08/17/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Silt, light-yellowish-gray, clayey, oxidized; dry	5	5
Clay, moderate-yellowish-brown, silty, slightly sandy, pebbly, cohesive, oxidized	12	17
Clay, medium-dark-gray to greenish-gray, silty, brittle	24	41
Lignite, black, hard, brittle; dry	3	44
Clay, chocolate-brown to greenish-gray, silty, brittle	16	60
Clay, medium-gray to medium-dark-gray, very silty, sticky, brittle; highly indurated sandstone ledge from 75 to 77 feet, sandy from 80 to 85 feet	74	134
Lignite, black, hard, brittle; saturated	11	144
Clay, medium-light-gray to medium-dark-gray, very silty, brittle, bentonitic	16	160

135-096-30AAA
NDSWC 4962
Date drilled: 08/18/76

Sand, yellowish-brown to 18 feet than medium-gray to greenish-gray, fine, rounded, well-sorted; saturated	27	27
Clay, medium-gray	11	38
Lignite, black, hard, brittle; saturated	11	49
Clay, medium-light-gray to medium-gray, silty, cohesive, brittle	11	60

135-097-02DDA
(Log modified from Kruger Drilling Co.)
Date drilled: 06/30/75

Clay	40	40
Clay, sandy	20	60
Sandy	10	70

135-097-04DAB
(Log modified from Moe Well Drilling)
Date drilled: 08/04/73

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, yellow	36	36
Sand, gray, medium coarse	7	43
Sandstone, gray	4	47
Sand, gray; with black specks	13	60
Coal	--	60

135-097-09AAA
(Log modified from Kruger Drilling Co.)
Date drilled: 04/01/74

Clay	20	20
Clay, sandy	10	30
Clay	40	70
Clay, sandy	10	80
Sand	10	90

135-097-09BAA
(Log modified from Moe Well Drilling)
Date drilled: 08/31/73

Sand, yellow	58	58
Sand, blue	42	100
Coal	4	104
Clay, gray	13	117
Coal	9	126
Sand, gray, chunky	12	138
Rock	1	139
Clay, gray, silty	19	158
Coal	2	160
Clay, light-gray	33	193
Sand, gray, very fine, silty	14	207
Sandstone, gray	4	211
Sand, gray, medium	45	256
Clay, light-gray, silty	4	260

135-097-14AAA
NDSWC 4958
Date drilled: 08/16/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, yellowish-brown, very fine to fine, rounded, well-sorted, predominantely quartz; some gravel at 3 feet	30	30
Clay, moderate-yellowish-brown, silty, moderately cohesive, oxidized	2	32
Clay, moderate-yellowish-brown, medium-light-gray to medium-gray, silty, moderately cohesive, bentonitic	60	92
Lignite, black, hard, brittle; water at 95 feet	12	104
Clay, medium-light-gray to medium-gray, silty, moderately cohesive, bentonitic	16	120

135-097-16DDD
(Log modified from Moe Well Drilling)
Date drilled: 09/03/73

Sand and gravel	16	16
Clay, light-gray	25	41
Coal	6	47
Clay, gray, silty	23	70
Coal	5	75
Clay	1	76
Clay, gray, silty	5	81

135-097-18CBB3
(Log modified from Knutson Well Drilling)
Date drilled: 03/17/81

Clay, sandy	15	15
Sandy	45	60
Clay	6	66
Coal	4	70
Clay	22	92
Coal	3	95
Clay	20	115
Sandy	45	160

135-097-31ADD3
(Log modified from Sander Drilling)
Date drilled: 10/06/74

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand and gravel	5	5
Clay, gray	20	25
Coal	15	40
Clay, gray	5	45
Coal	10	55
Rock, gray	13	68
Clay, gray	14	82
Rock, gray	2	84
Coal	8	92
Clay, gray	22	114
Coal	4	118
Rock and sand	10	128
Clay, sandy	10	138
Sand	32	170

135-097-33DDC
NDSWC 4963
Date drilled: 08/18/76

Clay, moderate-yellowish-brown to dark-brown, very silty, cohesive, brittle, oxidized	30	30
Clay, medium-gray to medium-dark-gray, very silty, cohesive, brittle, bentonitic, chocolate-brown and carbonaceous from 50 to 60 feet	33	63
Lignite, black, hard, brittle; dry	4	67
Clay, medium-light-gray to bluish-gray, very silty, moderately cohesive, brittle, slightly carbonaceous	10	77
Lignite, black, hard, brittle; dry	2	79
Clay, medium-light-gray to bluish-gray, very silty, moderately cohesive, brittle, slighty carbonaceous, small ledge at 99 feet, lignite from 114 to 116 feet	53	132
Lignite, black, hard, brittle; saturated	13	145
Clay, medium-gray to medium-dark-gray, very silty, moderately cohesive, brittle	15	160

135-098-10ABC
(Log modified from Kruger Drilling Co.)
Date drilled: 10/26/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay	50	50
Clay, sandy	10	60
Clay	30	90
Coal	10	100
Clay	20	120
Sandy	20	140

135-098-12BBA
(Log modified from Moe Well Drilling Co.)
Date drilled: 10/05/74

Clay, gray	58	58
Coal	1	59
Clay, gray	28	87
Coal	1	88
Clay, gray	29	117
Sand, gray	10	127
Rock, soft	1	128
Sand, gray	13	141
Coal	4	145
Clay, gray, sandy	5	150

136-095-23CCB2
(Log modified from B and M Drilling)
Date drilled: 08/01/75

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Clay, white	9	10
Rock	1	11
Sand, gray, silty	3	14
Silt, brown	2	16
Clay, gray	12	28
Lignite	7	35
Clay, gray	15	50
Silt, gray, clayey	9	59
Clay, green	13	72
Silt, gray-green	9	81
Silt, sandy	17	98
Lignite	7	105
Clay, brown	19	124
Lignite	1	125
Clay, gray	39	164
Clay, green	6	170
Clay, brown	6	176
Lignite	2	178
Clay, brown	7	185
Clay, gray; with lignite streaks	80	265
Clay, gray	161	426
Lignite	1	427
Clay, brown	9	436
Lignite, hard	4	440
Clay, gray	17	457
Rock, hard	1	458
Clay, gray	12	470
Clay, dark-gray	16	486
Rock	3	489
Clay, gray	3	492
Lignite	2	494
Clay, gray	74	568
Rock, very hard	3	571
Clay, gray; with lignite streaks	149	720
Silt	10	730
Sand; water	51	781
Clay, gray	19	800

136-095-23CCB3
(Log modified from Gregory Drilling Co.)
Date drilled: 05/17/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, brown, sandy	1	1
Clay, yellow and brown, sandy	5	6
Clay	8	14
Clay, gray	5	19
Coal	5	24
Clay, gray	37	61
Coal	2	63
Clay, gray	14	77
Rock	2	79
Clay, blue, sandy	13	92
Clay, gray	2	94
Coal	8	102
Clay, gray	32	134
Coal	3	137
Clay, gray	12	149
Clay, blue	4	153
Clay, gray	24	177
Sand, gray	6	183
Clay, brown	18	201
Coal	3	204
Clay, gray	35	239
Coal	3	242
Clay, gray	21	263
Coal	2	265
Clay, brown	2	267
Coal; with layers of clay	7	274
Clay, gray	9	283
Clay, blue, sandy	25	308
Coal	1	309
Clay, dark-brown	54	363
Coal	6	369
Clay, gray	4	373
Clay, blue	17	390
Clay, gray, sandy	6	396
Clay, blue	18	414
Clay, gray	15	429
Coal	8	437
Clay, gray	20	457

136-095-23CCB3-Cont.
(Log modified from Gregory Drilling Co.)
Date drilled: 05/17/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Coal	2	459
Clay, gray	45	504
Rock	1	505
Clay, gray	3	508
Coal	2	510
Clay, gray	54	564
Coal	2	566
Clay, blue	8	574
Clay, gray	28	602
Coal	7	609
Clay, dark-brown	3	612
Clay, gray	27	639
Coal	3	642
Clay, dark-brown	2	644
Clay, gray	6	650
Clay, gray; with coal layers	25	675
Coal	2	677
Clay, gray	4	681
Clay, gray; with coal layers	10	691
Coal	3	694
Coal; with clay layers	8	702
Coal	1	703
Clay; with coal layers	7	710
Coal	1	711
Clay; with coal layers	6	717
Silt	12	729
Sand, blue and gray, very fine	17	746
Sand, gray, very fine	17	763
Clay, blue and gray, sandy; with coal chips	9	772
Clay, gray	3	775

136-095-24DAA2
(Log modified from B and M Drilling)
Date drilled: 08/15/73

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	1	1
Sand, yellow	7	8
Sand, gray	6	14
Clay, yellow	15	29
Clay, gray	14	43
Lignite	1	44
Clay, gray	20	64
Lignite	7	71
Clay, gray	4	75
Clay, green	14	89
Lignite, hard	1	90
Clay, gray	10	100
Lignite	3	103
Clay, gray	20	123
Rock	2	125
Clay, gray	45	170
Lignite	2	172
Clay, gray	17	189
Lignite	3	192
Clay, gray	9	201
Clay, green	21	222
Lignite	2	224
Clay, gray	25	249
Lignite	2	251
Clay, gray	20	271
Lignite	1	272
Silt	9	281
Clay, gray	28	309
Rock	2	311
Sand, gray, fine; water	31	342
Clay	18	360

136-095-28BBC2
(Log modified from Gregory Drilling Co.)
Date drilled: 04/30/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, brown, sandy	5	5
Coal	1	6
Clay, yellow and brown	7	13
Coal	1	14
Clay, yellow and brown	3	17
Clay, gray	2	19
Clay, yellow and brown	6	25
Clay, gray	6	31
Coal	2	33
Clay, gray	8	41
Coal	1	42
Clay, dark-brown	2	44
Clay, gray	6	50
Sand, gray, fine	25	75
Clay, gray, sandy	5	80

136-096-12AAB3
(Log modified from H & H Service Co.)
Date drilled: 11/13/74

Surface to clay	30	30
Lignite	2	32
Clay to sandy clay	30	62
Rock ledge	1	63
Silt, gray	17	80
Silt	40	120
Rock ledge	2	122
Clay; with rock ledges	111	233
Sand, fine	12	245
Clay; with rock and coal ledges	367	612
Sandstone	1	613
Sandstone, very fine to fine	7	620
Sandstone	46	666
Lignite, firm	4	670
Sandstone	10	680
Clay, soft	20	700

136-097-14CBC2
(Log modified from Gregory Drilling Co.)
Date drilled: 08/19/75

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, brown	2	2
Clay, light-brown	5	7
Sand, brown, medium coarse	3	10
Clay, light-brown	5	15
Rock, hard	3	18
Clay, yellow and brown	6	24
Clay, gray	8	32
Coal; lost circulation	7	39
Clay, gray, sandy	6	45
Clay, brown, sandy	18	63
Rock, soft	1	64
Clay, gray	31	95
Clay, brown	6	101
Clay, gray; with seams of coal	49	150
Sand, medium coarse; tested at 1.5 gallon per minute	10	160
Rock	3	163
Clay, gray	14	177
Clay; with layers of coal	6	183
Clay, blue, sandy	2	185
Clay, gray, silty	23	208
Shale, brown; with coal	7	215
Clay, gray, silty	5	220
Sand, gray, fine to medium coarse; with clay layers	49	269
Rock, hard	1	270
Sand, gray, medium coarse; with layers of clay	25	295
Clay, gray	3	298

136-097-15CDD
(Log modified from Opp Well Drilling)
Date drilled: 10/06/75

Sand, dark	2	2
Clay, brown, sandy	18	20
Clay, gray	3	23
Coal; with water	7	30
Clay, blue	10	40
Coal	1	41
Clay, blue	7	48

136-097-22CCD
(Log modified from Mann Drilling Co.)
Date drilled: 02/01/73

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay	18	18
Lignite, soft	5	23
Clay	84	107
Sandstone	2	109
Sand	11	120

136-097-22DDC
(Log modified from K.D. Thompson)
Date drilled: 04/22/72

Gravel	18	18
Clay, blue	37	55
Sand, fine	3	58
Shale	22	80
Clay, sandy	5	85
Shale, blue	15	100
Sand; dry	19	119
Coal	2	121

136-097-26BCC1
(Log modified from Gregory Drilling Co.)
Date drilled: 08/14/75

Clay, brown, sandy	10	10
Clay, gray	8	18
Clay, brown; with coal	7	25
Clay, blue	25	50
Clay, gray	7	57
Shale, brown, fractured	3	60
Coal	3	63
Clay, gray	32	95
Coal	5	100
Clay, gray	17	117
Coal	2	119
Clay, gray	16	135

136-097-26BCC2
(Log modified from Gregory Drilling Co.)
Date drilled: 11/02/78

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Gravel	3	3
Clay, brown, sandy	7	10
Coal	3	13
Clay, yellow and brown	17	30
Clay, gray	33	63
Coal	2	65
Clay, gray	45	110
Clay, blue	15	125
Clay, gray	91	216
Rock	1	217
Clay, blue, sandy	3	220
Clay, gray	45	265
Clay; with coal layers	25	290
Clay, gray	70	360
Sandstone	5	365
Clay, gray	60	425
Clay, gray, sandy	45	470
Clay, brown	5	475
Coal	10	485
Clay, brown	45	530
Clay, brown, sandy	10	540
Sand, gray and brown	35	575
Clay	239	814
Sandstone	1	815
Clay, gray	20	835
Sandstone	2	837
Clay, gray, sandy	8	845
Sand, gray, fine	45	890
Clay, gray	30	920

136-097-31DDD
(Log modified from Gregory Drilling Co.)
Date drilled: 04/04/79

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, brown, sandy	3	3
Sand, brown	7	10
Clay, sandy	4	14
Sand, brown	6	20
Sandstone	2	22
Sand, brown	13	35
Sandstone	2	37
Sand, brown	8	45
Sandstone	4	49
Sand, brown	18	67
Sand, blue and gray	24	91
Coal	7	98
Clay, brown	2	100
Clay, gray	10	110

136-098-01BAA
NDSWC 4950
Date drilled: 08/11/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, moderate-yellowish-brown to light-brownish-gray, silty, slightly sandy, cohesive, brittle, oxidized	15	15
Sand, rusty-brown, fine, rounded, well-sorted, slightly clayey, oxidized	7	22
Clay, medium-light-gray to olive-gray, very silty, brittle; sandy in various places	32	54
Lignite, black, hard, brittle; dry	6	60
Clay, medium-gray, silty, brittle, slightly carbonaceous, bentonitic; sandy from 75 to 80 feet	36	96
Lignite, black to reddish-black, hard, brittle; dry	8	104
Sand, medium-light-gray, very fine, rounded, silty	10	114
Clay, medium-light-gray to bluish-gray, very silty	46	160
Sand, very fine, rounded	62	222
Clay, medium-light-gray to green, very silty	25	247
Lignite, black, hard, brittle	3	250
Clay, medium-gray to brownish-gray, silty, cohesive, brittle, carbonaceous	6	256
Lignite, black, hard, brittle	6	262
Clay, medium-dark-gray to brownish-gray, silty, cohesive, brittle, carbonaceous	18	280

136-098-05AAA
NDSWC 4951
Date drilled: 08/11/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, medium-light-gray to medium-gray, very silty, brittle	5	5
Clay, moderate-yellowish-brown to reddish-brown, silty, moderately cohesive, oxidized	7	12
Sand, yellowish-brown, clayey, very fine, rounded	4	16
Clay, yellowish-brown to medium-light-gray, silty, cohesive, brittle, oxidized to 35 feet	26	42
Lignite, black to reddish-black; dry	3	45
Clay, medium-gray to medium-dark-gray, very silty, cohesive, brittle	35	80
Clay, medium-gray to chocolate-brown, very silty, cohesive, brittle, carbonaceous; lignite at 82 feet	25	105
Lignite, black, hard, brittle; dry	8	113
Clay, medium-gray to dark-gray, silty, brittle, slightly carbonaceous	43	156
Sand, medium-gray to greenish-gray, very fine to fine, subrounded to rounded, well-sorted	47	203
Lignite, black, hard, brittle	4	207
Clay, green to medium-gray, silty, cohesive, brittle	13	220

136-098-15AAA
NDSWC 4949
Date drilled: 08/10/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, dark-reddish-brown, very silty, slightly sandy, oxidized	5	5
Clay, yellowish-brown to medium-gray, silty, cohesive, brittle	5	10
Clay, greenish-yellow, silty, slightly sandy, cohesive, brittle	7	17
Silt, light-brown to medium-brown, slightly sandy; sandstone from 31 to 33 feet	17	54
Clay, medium-dark-gray, very silty, moderately cohesive, brittle	34	68
Lignite, black, hard, brittle; making water	8	76
Clay, medium-light-gray to medium-gray, silty, slightly sandy, cohesive, brittle, carbonaceous, bentonitic after 130 feet	70	146
Lignite, black, hard, brittle; saturated, clay parting from 151 to 155 feet	11	157
Clay, medium-gray to greenish-gray, silty, sandy, cohesive, brittle; sandstone from 167 to 170 feet	23	180

136-098-15CBB
NDSWC 4948
Date drilled: 08/10/76

Clay, moderate-brown, silty, sandy, oxidized	15	15
Clay, medium-gray, silty, sandy; moist	6	21
Lignite, black to reddish-black, hard, brittle; dry	3	24
Sand, medium-light-gray to medium-gray, very fine, rounded, clayey; dry, lignite at 57 feet making water	34	58
Clay, medium-gray to medium-dark-gray, silty, cohesive, brittle; sandstone from 65 to 67 feet	20	78
Sand, medium-gray, very fine to fine, rounded, well-sorted; saturated	22	100
Lignite, black, hard, brittle; saturated	5	105
Clay, medium-gray, very silty, brittle; sandstone from 114 to 116 feet	11	116
Sand, medium-gray to greenish-gray, very fine to fine, rounded, well-sorted	4	120

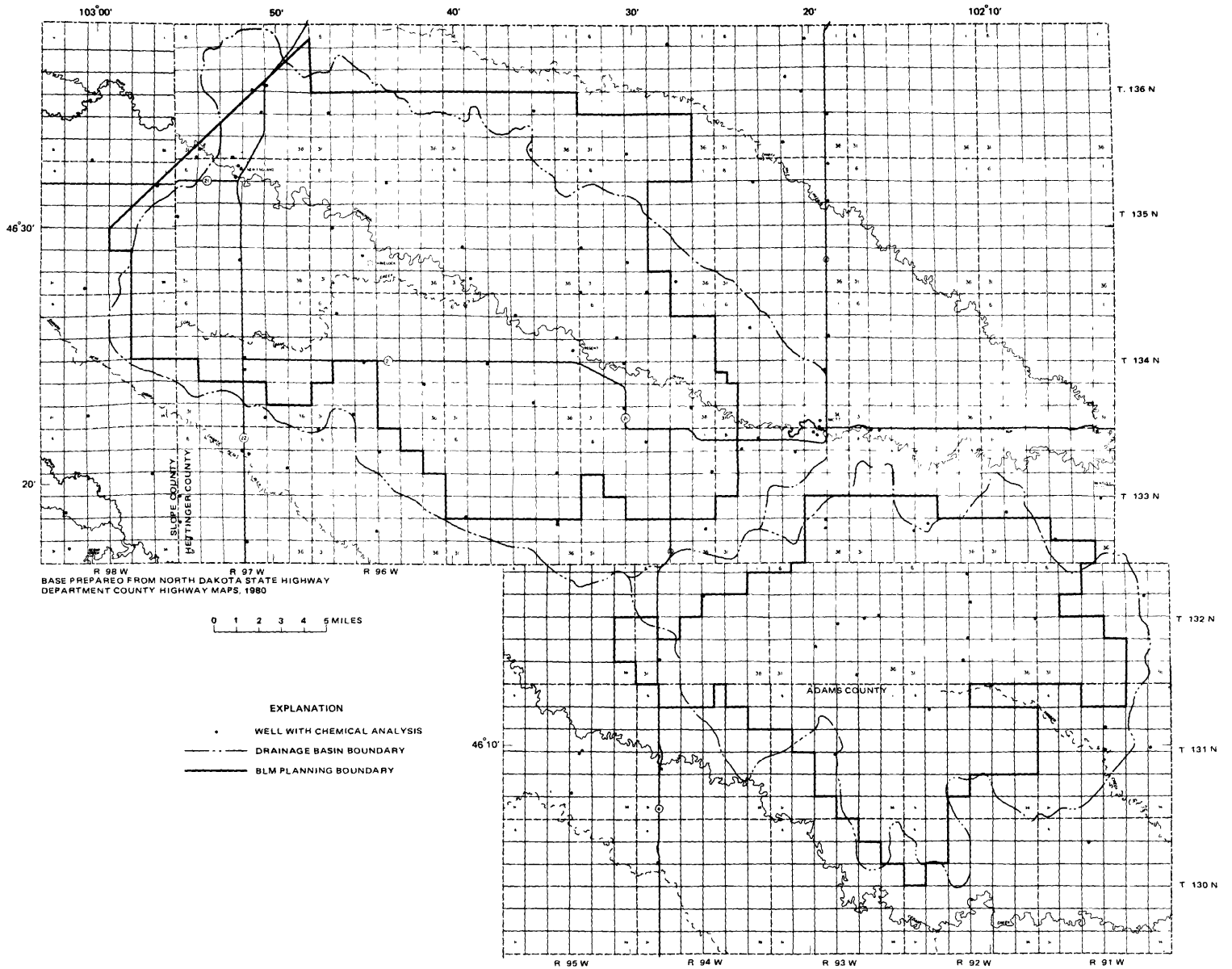

FIGURE 8.—Location of wells with chemical analyses in the New England-Mott coal area.

TABLE 6.--Chemical analysis of selected wells in the New England-Mott coal area.

Principal aquifer

125, Paleocene
211, Upper Cretaceous

CNBL, Cannonball Member of Fort Union Formation
FXHL, Fox Hills Sandstone
HCFH, Hell Creek Formation-Fox Hills Sandstone
LDLW, Ludlow Members of Fort Union Formation
LHCK, Lulow Formation-Hell Creek Members of Fort Union Formation
SBTR, Sentinel Butte-Tongue River Members of Fort Union Formation
SNLB, Sentinel Butte Member of Fort Union Formation
TGRV, Tongue River Member of Fort Union Formation
TRVL, Tongue River-Ludlow Members of Fort Union Formation

Specific conductance

Value shown is the field specific conductance measured at the well at the time of inventory.

LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (UMHO/CM AT 25°C)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
130-091-09BAB	125LHCK	340	71-04-14	1890	8.2	--	18	0	4.6	1.6	480	98	50	2.2	1180	0	49	48	4.8	9.8	1110	--	830	280	10
130-092-22CBB	125CNBL	31	71-06-29	1780	8.2	9.5	17	0	4.2	1.6	460	98	48	2.1	924	0	210	7.3	7.2	8.2	1170	--	1500	1700	10
130-094-07DDD1	125TRVL	390	72-06-15	1670	8.2	11.5	62	0	10	9.0	430	93	24	2.9	1120	0	12	23	6.5	8.9	1080	--	1400	160	40
130-094-07DDD2	125TRVL	253	72-06-15	2100	8.6	--	93	0	18	12	480	91	22	3.8	884	40	360	10	6.3	7.3	1400	--	1300	0	60
131-091-10CCC	125LDLW	408	71-09-22	1780	8.5	10.0	19	0	3.8	2.3	470	98	47	1.8	1130	25	33	50	2.1	9.4	1170	--	1600	320	10
131-091-13CCB	125LDLW	345	70-08-07	1870	8.3	13.0	17	0	3.4	2.1	470	98	50	2.2	1150	12	42	50	2.7	10	1120	--	1300	160	20
131-001-15CCC	125LHCK	537	72-06-09	1860	8.3	10.5	19	0	5.0	1.6	490	98	49	2.3	1170	10	99	.6	3.2	9.2	1250	--	1400	80	30
131-092-08BBA	125TRVL	202	70-08-07	3080	7.9	11.0	56	0	.3	13	710	96	41	3.9	462	0	1200	6.6	1.4	7.7	2150	--	640	200	20
131-093-21AAA1	125LDLW	334	72-06-13	1600	8.2	11.5	40	0	10	3.6	410	95	28	2.3	1030	0	23	20	5.3	9.0	1030	--	1400	40	30
131-093-21AAA2	125LDLW	253	72-06-14	1630	8.3	10.5	32	0	6.6	3.8	410	96	31	3.6	960	15	62	17	5.5	7.3	1040	--	1100	440	40
131-093-21AAA3	125TRVL	143	72-06-12	3500	7.7	11.0	140	0	28	17	770	02	29	6.4	495	0	1400	1.8	.8	8.0	2510	--	390	0	40
131-094-20CBC1	211HCFM	1045	71-07-22	1930	7.8	19.0	25	0	6.2	2.3	500	97	44	3.0	888	0	44	240	3.6	9.7	1330	--	1600	260	50
131-094-20CBC2	125LHCK	537	71-10-14	2020	8.4	9.5	50	0	8.0	7.3	520	06	32	1.6	1250	26	9.5	65	3.4	18	1340	--	1400	680	10
131-094-20CBC3	125LDLW	224	71-10-12	1590	8.4	9.5	64	0	20	3.4	400	93	22	2.2	970	21	44	16	7.2	8.2	1020	--	2300	0	20
131-095-15DCC	125TRVL	63	71-07-07	1140	8.1	9.0	180	0	21	31	200	69	6.5	9.3	366	0	300	2.7	.1	5.0	692	--	210	0	10
131-095-22BAA	125TRVL	31	71-07-07	2160	7.8	--	840	430	150	110	170	31	2.6	12	499	0	370	67	.3	9.3	1610	--	140	0	30
131-095-27CCB	125TRVL	125	70-08-07	1640	8.0	12.0	680	300	140	84	130	28	2.1	9.3	465	0	570	2.0	.5	10	1270	--	180	180	470
132-091-14AAB	125TGRV	282	67-08-08	1460	8.3	9.0	35	0	10	2.4	340	95	24	3.8	541	7	320	4.9	.4	8.1	951	.00	0	130	--
132-092-09AAA	125TGRV	225	67-08-11	1520	8.3	9.0	160	0	39	15	300	79	10	11	522	5	370	4.3	.1	10	1010	.68	0	360	--
132-092-15BCB	125TGRV	125	54-11-23	876	7.9	--	340	47	--	--	--	39	2.1	--	353	--	150	.0	--	--	493	--	1	420	--
132-092-21DDD2	125TGRV	70	69-06-13	924	7.9	7.5	240	0	58	24	120	51	3.4	4.7	348	0	220	1.6	.1	13	647	.56	0	040	--
132-092-24AAA	125TGRV	174	69-05-08	1610	8.1	7.0	35	0	9.8	2.6	380	95	28	7.1	632	0	330	1.0	.0	8.3	1040	.23	1	12000	--
132N092W28DCD1	125SBTR	--	45-12-03	3700	--	--	49	--	--	--	--	--	--	--	376	20	1400	.0	--	--	2380	--	--	--	--
132-093-14DDD	125TGRV	180	56-11-13	--	7.5	--	1300	980	--	--	--	--	--	--	424	0	1800	54	--	--	2710	--	--	0	--
132-093-23BAB2	125TGRV	82	67-08-03	4330	8.1	10.0	806	300	170	94	820	69	13	9.1	615	0	2000	10	.5	7.7	3520	2.70	1	80	--
132-093-28BCB2	125TGRV	162	69-04-05	1490	8.2	--	20	0	5.6	1.5	340	97	33	2.0	530	0	350	13	1.5	8.4	955	.00	1	400	--
132-093-34DAA2	--	111	82-08-11	1390	8.2	12.0	24	--	5.5	2.4	340	96	33	3.8	--	--	240	10	.6	9.3	890	--	760	120	30
132-094-15BBB1	125TGRV	143	69-06-17	569	7.9	8.5	200	0	36	16	74	50	2.6	5.6	370	0	28	.0	.2	13	321	.56	0	720	--
132-094-29CCC	125TGRV	204	69-05-13	1490	8.5	10.5	26	0	4.8	3.4	350	96	30	2.4	608	13	270	.0	1.1	8.6	965	.56	0	200	--
133N091W01BBD	125TGRV	121	67-07-26	500	0.1	10.6	89	0	20	9.5	83	--	3.8	5.8	294	0	30	1.1	.4	11	292	--	100	180	--
133N091W20CBC	125TGRV	124	47-09-25	1900	--	--	69	--	--	--	--	--	--	--	334	--	450	.0	--	--	1110	--	--	700	--
133N091W24BAB	125TGRV	201	67-07-25	2110	8.2	10.6	20	0	5.0	1.8	500	--	49	2.9	588	0	600	4.7	.9	7.7	1320	--	580	80	--
133N091W27CCD	125TGRV	90	48-05-01	2880	--	8.9	140	--	--	--	--	--	--	--	332	0	450	.0	--	--	1580	--	--	400	--
133N092W05BAA2	125TGRV	310	67-08-24	1720	8.4	11.7	10	--	2.5	1.0	450	--	62	1.8	1090	24	17	27	3.4	8.6	1080	--	1200	340	--
133N092W05BBB1	125TGRV	306	54-08-02	--	--	--	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
133N092W27ABC	125TGRV	243	69-06-03	2560	7.9	15.0	37	0	9.2	3.4	590	--	42	3.0	542	0	860	2.5	2.5	8.5	1720	--	670	500	--
133N092W28DAA2	125SBTR	60	59-07-23	1140	7.5	--	430	--	96	47	.0	--	--	--	258	0	210	9.8	--	--	--	--	--	9700	--
133N093W02AAB	125TGRV	402	67-07-26	1910	8.5	13.3	14	0	4.0	1.0	500	--	58	1.8	1220	37	2.1	24	5.9	7.0	1200	--	1300	220	--
133N093W02ACB	125TGRV	140	60-01-21	--	--	--	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
133N093W02BAD	--	25	66-06-02	4560	7.5	--	1200	490	250	140	730	--	9.1	--	886	0	1900	51	--	--	3650	--	--	800	--
133N093W05ADD1	125TGRV	90	65-07-13	1360	7.6	--	220	0	--	--	270	--	7.9	--	528	0	350	6.0	--	--	888	--	--	330	--
133N093W05CCD	125TGRV	207	67-08-29	1630	8.4	10.0	17	0	4.3	1.6	400	--	42	1.4	731	13	240	10	.6	--	1040	--	1900	220	--
133-093-10ABB3	--	405	82-08-12	1880	8.2	15.0	10	--	2.3	.9	490	99	75	1.8	--	--	10	54	5.1	8.7	1190	--	2000	85	2
133N093W26AAA	125TGRV	128	67-12-01	1390	7.9	8.5	66	0	15	6.9	310	--	17	5.4	542	0	290	4.5	.1	--	947	--	880	4600	--
133-093-26ADD	--	462	82-08-17	760	7.4	17.0	340	--	77	36	24	13	.6	5.3	--	--	110	8.6	.1	12	474	--	170	7	10
133-094-04DAA3	--	540	82-08-12	2100	8.3	13.0	19	--	5.4	1.3	520	98	52	2.1	--	--	13	23	3.4	9.0	1310	--	1500	90	10
133N094W12DDC	125TGRV	456	67-08-25	2000	8.5	12.2	14	0	3.2	1.5	550	--	20	1.9	1310	36	7.6	24	3.9	9.3	1290	--	1400	130	--
133N094W25ACC	125TGRV	70	69-06-17	1820	7.8	8.5	640	290	150	64	190	--	3.2	13	426	0	690	6.1	.2	10	1430	--	440	1700	--
133N095W11DDD2	125TGRV	192	69-03-11	2360	8.2	9.5	54	0	16	3.4	570	--	34	4.7	937	0	520	8.0	1.1	7.3	1570	--	480	2800	--
133N095W19DDD	125TGRV	214	69-05-14	1350	8.4	10.5	56	0	8.0	8.8	320	--	19	4.0	682	12	150	10	5.5	11	1210	--	1500	780	--
133-095-26AAA	--	161	82-88-18	2350	7.6	17.0	110	--	24	11	560	91	24	6.6	--	--	530	5.0	.6	9.9	1610	--	950	220	40
133N095W26AAD2	125TGRV	161	69-03-11	1380	8.2	8.5	21	0	6.4	1.2	330	--	32	2.4	659	0	180	3.0	1.3	8.4	869	--	560	280	--
133N096W06BAB	125TGRV	212	67-11-12	2170	8.0	--	40	--	--	--	540	--	37	--	971	0	390	2.9	--	--	1420	--	--	1400	--
133N096W10BBB	125TGRV	141	67-08-17	2910	8.3	7.8	140	0	36	12	660	--	24	6.6	791	16	890	9.5	.4	7.5	1810	--	880	900	--
133N096W28DAA2	125TGRV	71	69-03-11	2310	7.6	8.5	1000	600	260	96	180	--	2.4	13	548	0	780	49	.3	15	1900	--	700	0	--
133-097-09AAA1	125TGRV	81	67-11-01	934	8.2	8.5	65	0	17	5.5	200	86	11	4.2	476	0	110	4.6	.5	10	566	.00	1	980	--
133-097-09AAA2	125TGRV	81	71-09-28	904	8.3	8.0	77	0	16	9.0	190	83	9.4	3.8	462	4	110	2.7	.7	9.7	524	.23	530	0	10
133N097W10BBD2	125TGRV	221	67-12-05	1140	8.2	7.0	44	0	8.8	5.4	270	92	17	3.0	584	0	130	4.4	.6	10	704	.23	1	1600	--
133N097W11DDA2	125TGRV	221	71-09-28	1140	8.5	10.0	35	0	8.3	3.5	260	93	19	4.0	547	18	140	3.5	.9	9.4	749	.23	1000	240	30
133N097W19BBB	125TGRV	75	68-12-24	910	--	--	40	--	--	--	240	--	--	--	--	--	--	--	--	--	--	--	--	450	--
133N097W30BBC	125TGRV	102	68-05-01	1310	8.4	10.0	24	0	5.7	2.4	320	--	28	2.8	600	5	210	5.5	.5	8.4	885	--	880	3500	--
133N097W32DCC3	125TGRV	135	69-03-31	2330	--	--	300	--	--	--	400	--	--	--	--	--	--	--	--	--	--	--	--	200	--
133N097W34BBB	125TGRV	60	69-08-08	1550	--	--	800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	300	--
133-098-14AAA	125TGRV	95	67-08-18	2310	7.9	10.0	750	450	190	68	280	--	4.5	9.0	371	0	1000	15	.1	19	1840	--	1100	4000	--
133-098-20CBC	125LDLW	674	68-10-25	2420	9.7	8.5	4	0	1.0	.4	600	--	130	2.6	765	--	91	14	3.8	.6	1500	--	1400	0	--
133-098-32BCA	--	674	68-11-08	2040	8.9	7.5	12	--	2.3	1.6	540	--	68	2.2	1200	82	23	14	4.5	2.7	1300	--	1400	70	--
134N093W08DBB	125LHCK	860	75-07-22	2280	8.6	16.0	13	0	3.7	1.0	590	99	70	2.1	1450	48	8.6	13	10	10	1430	.20	1600	190	<10
134N093W12CCC2	125TRVL	91	75-07-01	1870	8.7	14.0	6	0	2.1	.2	460	99	81	1.9	877	41	130	79	5.1	8.8	1180	.23	1500	1100	<10
134N093W23ADD	125TRVL	106	75-87-01	2800	0.2	11.0	80	0	19	7.9	660	94	32	4.4	754	0	910	6.5	1.2	5.6	1990	.23	790	370	60
134N093W35DBD	125TGRV	61	69-06-03	3170	7.8	9.0	340	0	82	34	640	--	15	10	696	0	1200	3.3	1.3	8.3	2230	--	590	0	--
134N093W35DCD	125TGRV	60	69-03-07	2830	7.8	--	1200	680	290	120	310	--	3.9	15	632	0	1300	6.9	1.2	13	2400	--	810	3100	--
134N094W08DCC	125TGRV	263	69-06-11	1550	8.3	9.5	74	0	13	10	380	--	10	2.1	854	10	130	12	6.8	11	1040	--	300	110	--
134-094-12CCC	125TGRV	421	67-07-28	1890	8.5	--	13	0	4.8	.2	500	--	60	1.8	1220	29	2.2	24	5.0	7.1	1210	--	1300	240	--
134-094-20AAA	125TGRV	378	67-07-26	1920	8.4	11.1	14	0	4.4	.7	510	--	59	1.8	1250	24	5.0	24	4.9	7.2	1230	--	1300	180	--
134N094W32AAA1	125TGRV	223	68-09-27	1380	8.2	9.0	37	0	9.8	3.0	350	--	25	5.9	856	0	67	9.2	2.0	7.4	1030	--	390	2300	--
	125TGRV	223	69-05-16	1470	8.4	50.0	48	0	7.4	7.2	360	--	22	2.8	967	12	18	7.1	5.3	6.7	997	--	300	150	--
	--	672	82-08-17	2320	8.3	17.5	12	--	2.7	1.3	600	99	75	2.7	--	--	21	33	1.5	9.9	1480	--	1300	80	<10
	--	180	82-08-17	1320	8.4	13.5	18	--	5.0	1.2	330	97	36	2.5	--	--	46	17	3.2	7.1	866	--	740	220	30
	125TGRV	390	67-09-01	1810	8.5	11.7	12	0	2.2	1.6	470	--	19	1.9	1150	29	32	15	1.7	8.9	1150	--	660	90	--
	125TGRV	390	69-05-16	--	--	10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

LOCAL IDENT-I-FIER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	SPE-CIFIC CON-DUCT-ANCE (UMHO/CM AT 25°C)	PH (UNITS)	TEMPER-ATURE (DEG C)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	BORON, DIS-SOLVED (UG/L AS B)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)
134-094-35AAA	--	220	82-08-12	1440	8.5	11.5	11	--	2.8	1.0	370	98	52	1.7	--	--	64	16	3.7	7.3	957	--	1000	240	9
134N095W03CCD	125TGRV	118	67-08-31	1670	8.6	9.4	22	0	5.4	2.1	410	--	38	1.9	833	23	190	3.2	.3	--	1050	--	930	220	--
134-095-13ACD	125CNBL	546	82-08-18	2150	8.3	12.0	9	--	2.5	.7	540	99	78	1.7	--	--	7.0	100	2.6	12	1320	--	1900	10	<10
134N095W20AAA	125TGRV	161	67-09-13	906	8.4	10.0	18	0	5.2	1.2	210	--	22	1.6	481	5	81	2.6	.2	--	595	--	630	20	--
134-095-27DDA	--	180	82-08-17	1550	8.3	11.5	17	--	4.0	1.7	370	98	43	2.3	--	--	44	11	3.5	7.3	980	--	650	220	16
134N096W05CCD2	125TGRV	160	69-03-11	1580	8.6	--	52	0	7.5	8.1	360	--	22	1.8	623	12	300	2.9	2.9	7.6	1010	--	200	70	--
134N096W25BBB2	125TGRV	324	69-05-28	1610	8.3	10.5	72	0	5.1	14	380	--	19	1.8	929	7	120	9.9	6.8	8.2	1100	--	200	250	--
134N096W32ADD2	125TGRV	240	67-08-23	1790	8.4	11.1	22	0	5.0	2.3	430	--	40	1.9	808	13	270	5.1	.2	--	1170	--	980	0	--
134N097W15CCC2	125TGRV	81	67-10-31	2260	8.3	11.0	150	0	24	21	490	--	18	4.0	768	6	570	5.3	.6	7.8	1540	--	780	3400	--
134N097W22BCC2	125TGRV	207	67-08-10	1470	8.5	--	26	0	7.0	2.1	350	--	30	1.9	603	14	270	5.2	.8	1.7	950	--	520	220	--
134N097W34DAA3	125TGRV	189	66-11-17	1180	8.0	--	120	0	--	--	250	--	10	--	634	0	140	3.0	--	--	751	--	--	690	--
134-098-33BCC	125TRVL	200	75-06-04	2190	8.4	10.0	28	0	8.1	1.9	510	97	42	2.2	651	9	560	13	.9	5.5	1510	.77	1000	360	40
135N093W01BCB2	125TGRV	252	67-87-26	1440	8.2	11.0	70	0	18	6.1	330	--	17	2.6	643	0	250	3.2	1.9	7.0	959	--	610	1100	--
135N093W08ABA	125SNLB	01	69-86-03	1300	7.9	9.0	220	0	51	24	230	--	6.6	7.7	521	0	280	1.1	.4	17	820	--	300	0	--
135N093W12CCC	125TGRV	201	67-11-30	2160	8.1	9.0	98	0	25	8.6	480	--	21	4.8	539	0	680	8.3	1.0	11	1530	--	640	1400	--
135N094W19CCC2	125BNLB	01	67-09-12	920	8.0	9.4	200	0	38	26	140	--	4.1	5.6	369	0	180	5.7	.4	14	570	--	110	130	--
135N094W20CBB2	125SNLB	60	69-86-04	1810	6.4	8.5	850	760	180	97	91	--	1.4	9.7	107	0	910	21	.1	13	1530	--	440	100	--
135N094W31CCC	125SNLB	81	69-85-15	628	7.7	9.5	120	0	25	14	100	--	4.1	3.3	353	0	51	.0	.1	15	388	--	70	6800	--
135N094W33DDD	125SNLB	162	69-06-09	2920	8.3	--	850	--	500	--	270	--	--	--	--	40	--	--	--	--	--	--	--	--	--
135N094W35BCD	125SNLB	100	58-03-31	3000	8.2	--	73	--	--	--	--	--	--	--	636	48	860	.0	--	--	1880	--	--	480	--
135N095W19DDC2	125TGRV	01	69-06-05	1670	7.9	7.0	440	0	90	54	250	--	5.2	4.0	663	0	430	2.9	.3	12	1190	--	300	1100	--
135N095W32BCA	125TGRV	175	65-11-12	1300	8.8	--	80	--	--	--	270	--	--	--	--	--	--	--	--	--	--	--	--	--	--
135N096W10BAA	125TGRV	318	69-04-02	1680	8.5	11.0	57	0	5.3	11	380	--	22	1.4	578	10	370	8.1	6.5	8.1	1090	--	200	150	--
135N096W20BBB2	125SBTR	60	69-06-05	2410	7.9	7.5	220	0	55	20	520	--	15	5.4	771	0	700	16	1.1	8.7	1810	--	480	400	--
135N096W28BDA	125TGRV	196	69-04-02	1480	9.6	11.0	18	0	5.4	1.1	340	--	35	2.1	339	--	300	13	1.3	2.1	943	--	630	740	--
135N097W04ADB2	125SNLB	84	50-11-07	1350	7.9	8.3	170	0	38	18	300	--	--	3.0	558	0	230	26	1.4	13	911	--	--	570	100
135N097W04ADD1	125BNLB	105	67-06-20	1450	7.9	8.9	270	0	58	30	250	--	6.7	4.4	546	0	330	8.8	.6	12	975	--	350	180	--
135N097W04DCA	211FXHL	1360	68-00-04	1980	8.4	9.5	47	0	13	3.5	450	--	29	2.0	591	8	530	3.2	.8	7.9	1310	--	830	1200	--
	211FXHL	1360	68-09-09	2200	8.5	21.0	17	0	4.8	1.2	550	--	58	2.0	1050	22	91	150	4.5	13	1350	--	1900	740	--
	211FXHL	1360	68-09-19	2290	8.5	14.0	16	0	3.8	1.6	570	--	62	2.4	1080	21	46	190	4.4	12	1380	--	2100	4000	--
135-097-18CBB3	--	160	02-08-18	1700	--	19.0	17	--	4.7	1.3	390	98	44	2.6	--	--	340	4.3	1.1	9.4	1080	--	820	48	15
135-097-20DAA	125TGRV	350	63-07-01	2040	8.2	--	20	0	--	--	--	--	--	--	528	40	450	7.0	--	--	1110	.00	--	--	--
135-098-12BBA	--	150	82-08-11	3700	7.5	13.0	120	--	27	13	880	94	35	6.0	--	--	1300	5.9	.5	12	2690	--	720	70	40
135-098-32ADD1	125BNLB	62	75-07-82	4010	7.4	8.0	3200	2700	420	520	62	4	.5	5.5	574	0	2700	16	.5	11	4210	7.90	1300	80	<10
136N093W02CBC	125DNLB	202	69-06-04	2450	8.0	9.5	230	0	59	20	520	--	15	7.7	840	0	650	1.7	1.1	12	1670	--	440	1000	--
136N093W15BCD	125SNLB	230	67-08-03	2130	7.9	10.0	450	1	110	41	350	--	7.2	9.0	548	0	750	3.6	.4	10	1560	--	510	420	--
136N093W22AAA2	125SNLB	122	69-03-87	4080	7.5	9.0	1800	1300	410	200	450	--	4.5	14	632	0	2000	61	.4	11	3730	--	560	0	--
136N093W25BBB	125TGRV	201	67-10-26	2360	8.0	9.5	230	0	31	38	500	--	14	3.0	684	0	670	6.5	2.3	--	1640	--	1300	5200	--
136-093-34BCB2	125SNLB	180	69-06-01	888	7.5	--	350	69	91	33	63	27	1.4	4.5	361	0	210	2.5	.2	24	646	.23	0	--	--
136N094W03DDD	125SNLB	224	68-11-23	1990	7.9	8.5	190	0	47	18	390	--	12	6.4	414	0	640	26	.7	7.7	1350	--	310	720	--
136N094W33CBC	125SNLB	50	67-00-21	10000	7.3	10.6	6000	5900	480	1200	100	--	6.4	21	123	0	8000	23	.0	--	11700	--	930	52000	--
136N095W23CCB1	125BNLB	100	69-09-09	1080	--	11.0	20	--	--	--	320	--	--	--	--	--	--	--	--	--	--	--	--	650	--
136N095W34DAA1	125BNLB	180	82-08-19	1650	8.7	12.5	12	--	2.6	1.3	410	98	57	2.1	--	--	180	25	3.7	15	1160	--	1400	1200	20
136N096W19DDD	125DNLB	48	56-03-20	1960	--	--	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1300	--	--
	125SNLB	132	67-08-25	864	7.8	--	420	200	120	30	33	--	.7	3.8	269	0	260	2.5	.2	9.1	600	--	40	2800	--
136-097-14CBC2	--	263	82-00-19	1420	8.2	13.0	15	--	3.7	1.5	340	98	41	2.3	--	--	180	5.8	3.5	7.8	940	--	580	66	9
136-097-15CDD	--	48	82-08-19	2500	6.7	10.0	1400	--	360	120	29	4	.3	5.1	--	--	450	170	.2	13	1880	--	90	1300	70
136N097W15DAD	125BNLB	201	67-12-06	1520	8.2	7.0	38	0	9.6	3.4	350	--	25	3.6	539	0	330	12	1.5	7.3	1000	--	340	1100	--
136-897-22DDC	--	120	02-08-19	1170	7.7	16.0	51	--	11	5.7	240	90	16	5.7	--	--	300	1.9	.2	10	764	--	570	890	56
136-097-31DDD	--	92	82-80-19	1840	7.4	13.5	160	--	38	15	380	84	14	5.1	--	--	500	4.5	.5	11	1270	--	1100	1500	160
136N097W32CBB	125SNLB	170	67-12-05	1860	8.5	7.5	24	0	6.2	2.1	440	--	39	2.0	627	10	440	4.3	.2	--	1220	--	880	1700	--
136N097W33DCC	125SNLB	104	67-06-20	1910	7.9	8.9	120	0	29	15	430	--	17	4.3	667	0	470	6.5	1.1	11	1290	--	620	200	--
136-098-33CCD	125SNLD	120	75-07-02	2390	7.8	11.0	130	0	36	9.7	580	90	22	5.1	954	0	580	4.0	1.5	9.2	1660	.23	630	730	160

147 (OVERSIZE FIGURE)

TABLE 7.--Records of wells and test holes in the Dickinson coal area.

Owner

Brusich, 1, Oil and gas test holes are included that may provide data for the understanding of shallow aquifer systems. Logs are available from the North Dakota Geological Survey

LMGA, Little Missouri Grazing Association

NDSHD, North Dakota State Highway Department

NDSWC 3628, North Dakota State Water Commission, test hole number 3628

USBR, United States Bureau of Reclamation

USFS, United States Forest Service

USGS, United States Geological Survey

Water level (feet)

Water level, in feet below or above (+) land surface

P, pumping
R, recently pumped

Use of water

C, commercial
H, domestic
I, irrigation
N, industrial
P, public supply
S, stock supply
T, test hole
U, unused

Principal aquifer

111, Holocene
123, Oligocene
124, Eocene
125, Paleocene
211, Upper Cretaceous

ALVM, Alluvium
CBLD, Cannonball-Ludlow Members of Fort Union Formation
CNBL, Cannonball Member of Fort Union Formation
FRUN, Fort Union Formation
FXHL, Fox Hills Sandstone
GLDV, Golden Valley Formation
GVSB, Golden Valley Formation Sentinel Butte Member of Fort Union Formation
HCFH, Hell Creek Formation-Fox Hills Sandstone
LHCK, Ludlow Member of Fort Union Formation-Hell Creek Formation
SBLG, Sentinel Butte lignite aquifer
SBTR, Sentinel Butte-Tongue River Members of Fort Union Formation
SNLB, Sentinel Butte Member of Fort Union Formation
TGRV, Tongue River Member of Fort Union Formation
TRVL, Tongue River-Ludlow Members of Fort Union Formation
WRVR, White River Formation

Specific conductance

Value shown is the field specific conductance measured at the well at the time of inventory.

Altitude of land surface (feet)

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlanic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
135-096-05DDA	HELLEKSON, E.	--	230	212	6	1957	140.00		--	S	125SBTR	--	9.5	2610
135-096-08ABB	HELLEKSON, E.	--	140	75	6	1959	115.00		--	S	125SNLB	--	9.5	2577
135-096-08DDA	HELLEKSON, E.	--	100	83	--	--	12.00		--	S	125SNLB	--	--	2544
135-096-09ABA	USGS	160	146	134	2	08/17/1976	60.04	R	11/09/1976	U	125TGRV	1480	8.0	2570
135-096-20BBB1	MESLING, P.	--	31	--	24	--	30.00		06/ /1968	U	125SNLB	--	--	2558
135-096-20BBB2	MESLING, P.	--	60	42	6	1948	30.00		--	S	125SBTR	2410	7.5	2557
135-096-20CUC	NESJA, A.	--	100	18	5	1958	30.00		--	H,S	125TGRV	--	10.5	2575
135-096-20DDB	AUSTIN, G.	--	178	--	6	1915	44.00		04/ /1967	U	125TGRV	--	--	2561
135-096-21CCA1	DUBISAR, R.	--	42	--	4	--	23.00		06/ /1968	U	125TGRV	--	--	2540
135-096-21CCA2	DUBISAR, R.	--	48	--	16	--	--		--	H	125TGRV	--	--	2550
135-096-28ABA1	AUSTIN, O.	--	105	--	5	--	97.00		--	H,S	125TGRV	--	--	2510
135-096-28ABA2	AUSTIN, O.	--	13	--	2	08/18/1976	10.00		--	H	125TGRV	--	--	2510
135-096-30AAA	USGS	60	48	42	4	1959	23.12	R	11/09/1976	U	125TGRV	875	8.0	2550
135-097-01BBC	SCHORSCH, E.	--	80	50	6	--	40.00		--	H	125SNLB	--	--	2596
135-097-02BBC1	REBEL, J.	--	78	78	6	1919	20.00		--	H	125SNLB	--	--	--
135-097-02BBC2	REBEL, J.	--	100	--	6	06/30/1975	--		--	S	125SNLB	--	9.0	--
135-097-02DDA	REBEL, JOSEPH	70	70	60	5	--	--		--	S	--	575	11.0	--
135-097-04ADB1	ENGLAND 4, NEW	--	73	73	24	1955	47.00		09/ /1966	U	125SNL8	--	--	2595
135-097-04ADB2	ENGLAND 6, NEW	128	84	84	8	--	42.00		--	P	125SNLB	1350	8.3	2595
135-097-04ADC	SCHATZ, F.	--	59	--	12	1955	49.00		09/ /1966	U	125SNL8	--	--	2592
135-097-04ADD1	ENGLAND 7, NEW	--	105	105	8	1968	63.00		--	P	125SNLB	1450	8.9	2593
135-097-04ADD2	ENGLAND 8, NEW	--	105	77	10	08/04/1973	49.00		--	P	125SNLB	--	--	2593
135-097-04DAB	SCHATZ, DALE	60	60	40	5	1940	17.00		08/04/1973	H	--	2310	11.0	--
135-097-04DBA1	ENGLAND 1, NEW	--	101	--	12	1940	57.00		--	P	125SNLB	--	--	2593
135-097-04DBA2	ENGLAND 2, NEW	--	79	--	--	--	57.00		--	U	125SNLB	--	--	2593
135-097-04DBA3	ENGLAND 3, NEW	--	100	100	8	1944	48.00		--	P	125SNLB	--	--	2593
135-097-04DCA	NDSWC 3628	1790	1360	1320	4	09/03/1968	143.06		11/08/1971	U	211FXHL	1980	9.5	2567
135-097-05ABD1	KOHL, J.	--	28	28	6	1930	21.00		--	S	125SNLB	--	9.0	--
135-097-05ABD2	KUHL, J.	--	23	23	4	1947	19.00		--	H	125SNLB	--	--	2600
135-097-06ABA	BISBERG, A.	--	120	--	4	1967	--		--	H,S	125SNLB	--	--	--
135-097-07ABA	HANSON, H.	--	200	200	6	1963	100.00		--	H	125SNLB	--	--	2690
135-097-08BCC	NIELSON, K.	--	170	--	6	--	100.00		--	H,S	125SNLB	--	--	--
135-097-09AAA	NDSHD	90	90	75	4	04/01/1974	52.00		04/01/1974	H	--	1430	17.0	--
135-097-09BAA	ZAHN JR, HENRY	260	260	220	4	08/31/1973	21.00		08/31/1973	S	--	1860	12.0	--
135-097-10BBB	ROISENAUER, A.	--	49	0	18	--	23.00		--	H,S	125SNLB	--	--	--
135-097-10CAB	KELLER, W.	--	67	53	--	1956	35.00		--	S	125SNLB	--	--	2606
135-097-10CBA	KELLER, W.	--	230	222	--	1949	--		--	H	125TGRV	--	--	2350
135-097-11BDA	KOLANG, M.	--	60	--	6	1963	10.00		--	H,S	125SBTR	--	--	2565
135-097-13CBC	FRANK, J.	--	88	49	4	08/16/1976	64.00		--	H,S	125SNLB	--	--	2601
135-097-14AAA	USGS	120	104	92	2	--	28.66	R	11/09/1976	U	125TGRV	1180	10.0	--

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135-097-15CCA	JOHNSON, R.	--	108	100	6	1951	68.00	--	H	125SNLB	--	--	2616
135-097-16DDD	ZAHN JR, HENRY	81	80	40	4	09/03/1973	--	--	S	--	2910	15.0	--
135-097-18CBB1	ERICKSON, J.	--	97	97	6	1944	35.00	--	H	125SNLB	--	--	--
135-097-18CBB2	ERICKSON, J.	--	135	135	6	1960	35.00	--	S	125SNLB	--	8.0	--
135-097-18CBB3	ERICKSON, JAMES	160	160	135	4	03/17/1981	45.00	03/17/1981	H	--	1700	19.0	--
135-097-24BAA	SCHOBINGER, R.	--	35	0	24	1919	25.00	--	H,S	125SBTR	--	5.0	2570
135-097-26ABB	GARDNER JR, P.	--	40	0	24	--	30.00	02/ /1968	U	125SBTR	--	5.5	2610
135-097-26BBB	KOPPINGER, N.	--	85	--	6	--	65.00	--	H,S	125SBTR	--	8.0	2640
135-098-02DD	KIRSCHMAN, 1	8499	--	--	--	08/08/1971	--	--	--	--	--	--	2643
135-098-04CC	BRUSICH, 1	8665	--	--	--	10/17/1970	--	--	--	--	--	--	2700
135-098-08DD	BRUSICH, 1	11522	--	--	--	12/19/1952	--	--	--	--	--	--	2792
135-098-10ABC	NIELSON, ERNEST	140	140	120	5	10/26/1976	70.00	10/26/1976	S	--	2160	13.9	--
135-098-12BBA	SCHMITT, CORNELIUS	150	150	130	4	10/05/1974	61.00	10/05/1974	H	--	3700	13.0	--
135-098-13ADD	ERICKSON, JAY	201	201	161	4	05/24/1972	48.00	05/24/1972	S,H	125SNLB	1700	12.0	--
135-098-14CBC	MAIXNER, WILLIAM	140	140	110	4	09/01/1972	68.00	--	H	125TRVL	1410	16.0	2765
135-098-20AC	BENZ, 1	8974	--	--	--	11/01/1953	--	--	--	--	--	--	--
135-098-22BDA	MAIXNER, RICHARD	141	141	125	4	02/20/1970	115.00	--	H	125SNLB	2000	20.0	2798
135-099-01DDD1	LENHARDT, NICK	430	430	418	4	05/23/1972	--	--	S	125TRVL	2400	15.0	2820
135-099-01DDD2	LENHARDT, NICK	1104	902	837	4	02/28/1973	395.00	02/28/1973	S	125TRVL	2390	--	2820
135-099-07CC	GATZKE, 1-36	5530	--	--	--	09/22/1968	--	--	--	--	--	--	2733
135-099-13DDB	BENZ, BENEDICT	140	140	125	4	10/ /1976	82.00	10/ /1976	S	--	450	12.0	--
135-099-14DAD	BOCK, RICHARD	110	110	80	4	07/18/1973	40.00	07/18/1973	S	125SNLB	1800	10.0	2915
135-099-15CDA	HOFFAKER, HENRY	554	546	--	4	11/04/1968	192.00	11/04/1968	U	--	--	--	2810
135-100-12AAD	ROTERING, ROBERT	160	160	150	4	10/12/1976	100.00	10/12/1976	H	--	2160	14.0	--
135-100-16CC	BISMARCK, 1-A	9024	--	--	--	08/11/1957	--	--	--	--	--	--	2796
135-101-09DD	HAMANN ESTATE, 1	8763	--	--	--	01/09/1961	--	--	--	--	--	--	--
135-101-15ACC	JJJ RANCH	300	298	208	4.50	07/28/1972	120.00	07/28/1972	S	--	--	--	2782
135-101-16CBA	JJJ RANCH	180	167	98	4.50	07/26/1972	80.00	07/26/1972	S	125SNLB	--	--	--
136-096-09ADA	SCHIFF, J.	--	42	--	16	--	30.00	--	H	125SNLB	2050	11.0	--
136-096-18ACA	WEHNER, F.	--	48	--	12	--	21.00	11/ /1967	U	125SNLB	--	11.0	--
136-096-19DDD	HERBERHOLZ, M.	--	132	30	4	1961	35.00	--	S	125SNLB	864	--	2870
136-096-20BBC1	BOEHM, S.	--	65	--	--	1919	--	--	H,S	125SBTR	--	--	2698
136-096-20BBC2	BOEHM, S.	--	85	--	6	--	25.00	--	H,S	125SNLB	--	--	2785
136-096-20CDD	STAGL, T.	--	52	40	4	1950	26.00	--	H,S	125SNLB	--	--	2590
136-096-28ABB	STAGL, T.	--	140	--	4	--	--	--	U	125SBTR	--	--	--
136-096-28CCC	GRUNDHAUSER, J.	--	300	300	6	--	200.00	--	S	125SBTR	--	--	--
136-096-30AAC	HERBERHOLZ, M.	--	45	--	18	1964	25.00	--	S	125SNLB	--	--	2680
136-096-30AAD1	HERBERHOLZ, M.	--	50	--	18	1949	--	--	H,S	125SNLB	--	--	2704
136-096-30AAD2	HERBERHOLZ, M.	--	50	--	18	--	--	--	S	125SNLB	--	--	2700
136-096-30AAD3	HERBERHOLZ, M.	150	69	24	4	1960	35.00	--	H	125SNLB	--	--	2704

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136-096-32BAA1	RATTINGER, N.	--	131	--	4	1961	50.00	--	H	125SNLB	--	--	2652
136-096-32BAA2	RATTINGER, N.	--	325	--	6	1962	--	--	S	125SBTR	--	--	2652
136-097-02ACA	DONGEL, J.	--	213	--	5	1930	86.00	09/ /1967	U	125SNLB	--	--	2820
136-097-03BAD	STEIER, V.	--	200	0	--	1961	--	--	U	BEDROCK	--	--	2807
136-097-03CAD	STEIER, V.	--	413	0	--	--	--	--	U	BEDROCK	--	--	2829
136-097-03CDD1	STEIER, V.	--	50	50	24	--	25.00	--	S	125SNLB	--	--	--
136-097-03CDD2	STEIER, V.	--	25	--	24	--	--	--	H	125SNLB	--	--	--
136-097-04BAD	KIPP, J.	--	15	--	--	--	8.00	09/ /1967	U	125SNLB	--	--	2890
136-097-08BDD	LENHARDT, P.	--	260	230	4	1961	10.00	--	S	125SNLB	--	--	2800
136-097-08CAA1	LENHARDT, P.	--	232	--	4	1912	10.00	--	S	125SNLB	--	--	2799
136-097-08CAA2	LENHARDT, P.	--	27	17	4	1967	14.00	--	H	125SNLB	--	--	2799
136-097-08CAA3	LENHARDT, P.	--	260	240	4	1967	118.00	--	H	125SNLB	--	--	2799
136-097-09ADD1	BETCHNER, N.	--	34	--	24	1948	--	--	S	124GVSB	--	8.2	--
136-097-09ADD2	BETCHNER, N.	--	87	81	6	1956	71.00	--	H	125SNLB	--	--	2820
136-097-10DCD	NICKLOS, N.	--	68	0	24	1910	28.00	09/ /1967	U	124GVSB	--	--	2804
136-097-12AAC	WAHNER, F.	--	275	--	6	1928	60.00	--	H,S	125SNLB	--	9.3	2790
136-097-12BAB	GARTNER, M.	--	16	0	36	--	7.00	09/ /1967	U	125SNLB	--	--	2782
136-097-12CAC	SIMON, A.	--	315	--	4	1924	100.00	--	H,S	125SBTR	--	--	--
136-097-13BBB	DUBISAR, F.	--	300	--	6	1915	200.00	--	S	125SBTR	--	--	--
136-097-14AAA	DUBISAR, F.	--	13	0	48	--	8.00	09/ /1967	S	125SNLB	--	10.5	2895
136-097-14CBC1	WERT, M.	--	255	--	6	1958	150.00	--	H,S	125SNLB	--	--	2790
136-097-14CBC2	WERT, MARVIN	298	263	223	4.50	08/19/1975	188.00	08/19/1975	H	--	1410	13.0	--
136-097-14DAC	STEPHAN, F.	--	52	--	24	1907	10.00	--	H	125SNLB	--	--	--
136-097-15CDD	MADLER, DAVID	48	48	--	24	10/06/1975	25.00	10/06/1975	S	--	2500	10.0	--
136-097-15DAD	3533, NDSWC	320	201	198	1	1967	132.00	10/ /1967	U	125SNLB	1520	7.0	2758
136-097-16CCC	JIRGES, A.	--	40	40	18	1948	28.00	--	H,S	125SNLB	--	--	--
136-097-17ADA1	HEISER, J.	--	34	34	6	--	9.00	09/ /1967	U	125SNLB	--	--	2741
136-097-17ADA2	HEISER, J.	--	189	--	6	1914	125.00	09/ /1967	U	125SNLB	--	--	2745
136-097-18DDA	JIRGES, F.	--	127	--	6	1916	74.00	09/ /1967	U	125SNLB	--	--	2764
136-097-22CCD	URLACHER, JOHN	120	120	--	5	02/01/1973	70.00	02/01/1973	H	--	2890	16.0	--
136-097-22DDC	MADLER, CARL	121	120	--	5	04/22/1972	35.00	04/22/1972	H	--	1170	16.0	--
136-097-25CCD1	STAGL, F.	--	280	--	6	1928	100.00	--	S	125SBTR	--	--	--
136-097-25CCD2	STAGL, F.	--	85	85	6	--	--	--	H	125SNLB	--	--	--
136-097-26BCC1	MADLER, JOSEPH	135	63	53	5	08/14/1975	23.00	08/14/1975	U	--	2340	16.0	--
136-097-26BCC2	MADLER, JOSEPH	920	890	850	2	11/02/1978	210.00	11/02/1978	H	--	--	--	--
136-097-29ACA	KREBS, J.	--	240	--	5	--	70.00	--	H,S	125SBTR	--	10.0	--
136-097-31DDD	EHLIS, RONALD	110	92	--	49	04/04/1979	51.00	04/04/1979	H	--	1830	13.5	--
136-097-32CBB	ENGLAND, NEW	--	170	140	4	1967	3.00	--	H	125SNLB	1860	7.5	2586
136-097-32DAB	FITTERER, A.	--	76	--	6	1965	46.00	--	S	125SNLB	--	9.5	2610
136-097-32DBA	FITTERER, A.	--	67	6	24	1945	60.00	--	H	125SNLB	--	--	--

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136-097-33DCC	ENGLAND S, NEW	--	104	--	6	--	70.00		--	P	125SNLB	1910	8.9	2600
136-097-34A0B	BOHLMAN, J.	--	135	135	6	1926	--		--	H,S	125SNLB	--	11.0	--
136-097-34CCB	KREBS, J.	--	190	101	5	--	75.00		--	H,S	125SNLB	--	--	2612
136-097-34DDD	EST., PLETAN	--	69	--	4	1946	59.00		--	S	125SNLB	--	--	2621
136-098-018AA	USGS	280	220	208	2	08/11/1976	134.53	R	11/09/1976	U	125SNLB	1550	9.0	2765
136-098-02CDC1	EMLIS, GEORGE	180	180	150	5	03/18/1975	83.00		03/18/1975	H,S	--	1780	17.0	--
136-098-02CDC2	EMLIS, GEORGE	160	160	130	4	01/08/1981	98.00		01/08/1981	S	--	--	--	--
136-098-05AAA	USGS	220	207	195	2	08/11/1976	120.72	R	08/11/1976	U	125TGRV	3500	9.0	2715
136-098-15AAA	USGS	180	151	145	2	08/10/1976	77.85	R	11/09/1976	U	125TGRV	1800	10.0	2670
136-098-15CBB	NDSWC 4948	120	--	--	--	08/10/1976	--		--	--	--	--	--	2610
136-098-23AAB	ZENKER, WILMER	202	202	164	4	11/05/1970	60.00		11/05/1970	S	125TRVL	1600	11.0	2460
136-098-26CDC	O'CONNELL, MAURICE	140	140	98	5	09/11/1972	63.00		09/11/1972	S,H	125TRVL	3000	8.5	2625
136-098-27BCC	OLSON, CLIFFORD	155	155	--	4	06/22/1975	--		--	U	--	--	--	--
136-098-31ABB	HEICK, JOSEPH	--	960	--	--	--	63.00		05/24/1973	S,H	125LHCK	2070	14.0	--
136-098-33CCD	RANDICH, JOHN	120	120	75	4	05/24/1973				S	125SNLB	2390	11.0	--
136-099-05AAD	GOV'T, 41-5	8044	--	--	--	10/22/1970	--		--	--	--	--	--	2706
136-099-07BC	SCHAEFFER-HECK, 1	8030	--	--	--	01/15/1973	--		--	--	--	--	--	2772
136-099-08ABB	SCHATZ, 8-2	7910	--	--	--	03/19/1973	--		--	--	--	--	--	2700
136-099-08CCA	SCHATZ, WILFRED	65	65	50	5	10/28/1976	35.00		10/28/1976	U	--	--	--	--
136-099-09AA	GARDNER, 41-9	7981	--	--	--	01/12/1970	--		--	--	--	--	--	2709
136-099-15ADD	USGS	180	88	82	2	08/12/1976	40.03	R	11/09/1976	U	125SNLB	3600	10.0	2700
136-099-18BA	GOV'T, 21-18	7966	--	--	--	12/15/1969	--		--	--	--	--	--	2700
136-099-20DDD	USGS	160	116	110	2	08/12/1976	42.28	R	11/09/1976	U	125TGRV	1580	9.0	2700
136-099-25AA	J P HEICK, 1	5338	--	--	--	08/07/1968	--		--	--	--	--	--	2667
136-099-26DAD	NDSWC 4945	600	534	523	2	08/05/1976	135.20		01/13/1977	U	125TRVL	2000	12.0	2640
136-099-31BCC	USGS	160	135	129	2	08/13/1976	46.69	R	11/09/1976	U	125TGRV	3850	9.0	2760
136-099-33DAA	NDSWC 4955	200	--	--	--	08/13/1976	--		--	--	--	--	--	2705
136-099-36CCC	USGS	160	144	138	2	08/16/1976	57.30	R	11/09/1976	U	125TGRV	1500	10.0	2705
136-100-02BB	MOWIE, 11X-2	8130	--	--	--	11/13/1970	--		--	--	--	--	--	2800
136-100-09CAD	--	415	--	--	--	--	--		--	--	--	--	--	--
136-100-12BB	SCHATZ, 1	7975	--	--	--	03/09/1972	--		--	--	--	--	--	2765
136-100-12DAC	LMGA	80	80	70	4	09/09/1974	60.00		09/09/1974	S	--	--	--	--
136-100-13AA	PETERSON, 41-13	7998	--	--	--	10/02/1970	--		--	--	--	--	--	2707
136-100-17AAA	PETERSON, HOWARD	85	85	60	4	12/18/1972	43.00		12/18/1972	S	125SNLB	--	--	--
136-100-20CDC	USFS	80	80	55	4	09/16/1972	32.00		09/16/1972	S	125SNLB	1000	8.0	--
136-100-25DAA	MILLER, JULIUS	55	55	43	4	1980	20.00		1980	U	--	--	--	--
136-100-26BCB	SCHAEFFER, JOSEPH	1500	1394	1330	2	04/08/1971	230.00		06/06/1975	U	211HCFH	1110	9.0	2820
136-100-28BAB	ERICKSON, CHARLES	54	54	44	5	12/19/1977	25.00		--	U	--	1920	21.0	--
136-100-31DDC1	NDSWC 4811	1725	1725	1388	4	07/22/1975	299.51		04/09/1976	S	211HCFH	2950	10.0	2870
136-100-31DDC2	NDSWC 4811A	650	642	630	2	07/11/1977	--		--	U	125LHCK			2870

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136-100-35BBB	SCHAEFFER, ALBERT	120	120	--	4	12/05/1980	60.00	12/05/1980	U	--	--	--	--
136-101-02ABC	PETRI, ROBERT	--	600	--	--	01/01/1969	18.50	07/02/1969	U	125TRVL	--	12.5	--
136-101-09CAD	USFS	415	415	410	5	03/20/1972	325.00	03/20/1972	S	125TRVL	1680	12.5	--
136-101-25ACC	AUSTIN, WILLIAM	515	515	512	4	02/18/1965	--	--	S	125TRVL	1550	13.5	--
137-096-01CBC	KUNTZ, F.	--	175	175	6	1952	--	--	U	125SNLB	--	--	--
137-096-03CCD	BIEL, A.	--	115	115	4	1966	2.00	--	H	125SNLB	--	--	2585
137-096-03DCC	WEBER, A.	--	150	--	6	1954	0.00	--	S	125SNLB	--	8.8	2580
137-096-04ADA	LUTZ	155	155	147	5	10/04/1978	71.00	10/04/1978	S	--	2000	8.0	--
137-096-04BAA1	DUKART, P.	--	100	--	18	1900	20.00	--	H,S	125SNLB	--	8.2	--
137-096-04BAA2	LADUKE, JAMES	138	137	134	5	04/23/1972	47.00	04/23/1972	H	125FRUN	1100	9.0	--
137-096-06AAB1	KRANK, M.	--	34	0	48	--	12.00	--	S	125SNLB	--	7.7	--
137-096-06AAB2	KRANK, M.	--	46	46	18	1954	26.00	--	S	125SNLB	--	6.6	--
137-096-06DBA	KRANK, F.	--	150	150	6	1964	45.00	--	H,S	125SNLB	--	11.0	--
137-096-08DCD1	CIHA, A.	--	236	236	6	1926	180.00	--	U	125SNLB	--	--	2680
137-096-08DCD2	CIHA, A.	--	1155	1155	6	1960	250.00	--	H,S	211HLCK	--	--	2680
137-096-10BAB	BIEL, A.	--	12	0	48	--	7.00	05/ /1967	U	125SNLB	--	--	2580
137-096-10CCB1	DUKART, P.	--	18	18	18	--	8.00	--	H	125SNLB	--	--	2595
137-096-10CCB2	DUKART, P.	--	18	18	18	1957	8.00	--	S	125SNLB	--	6.6	2595
137-096-10CCB3	DUKART, P.	--	27	27	18	--	12.00	--	S	125SNLB	--	--	--
137-096-12CCC	KUNTZ, I.	--	92	0	12	1910	37.00	05/ /1967	U	125SNLB	--	--	2620
137-096-13BDB	LEFOR, J.	--	20	0	48	--	2.00	05/ /1967	U	125SNLB	--	9.3	2630
137-096-14BBB	BIEL, A.	--	71	--	12	--	23.00	05/ /1967	U	125SNLB	--	8.8	2610
137-096-14DBA1	KUNTZ, C.	--	18	0	48	--	12.00	--	H	--	--	--	--
137-096-14DBA2	KUNTZ, C.	--	18	0	48	1905	12.00	--	H,S	--	--	--	2619
137-096-15CB	PETROLEUM, LADD	--	5644	223	9	1969	--	--	U	--	--	--	--
137-096-16AAB1	DUKART, F.	--	37	0	48	--	--	--	S	125SNLB	--	--	--
137-096-16AAB2	DUKART, F.	--	25	0	48	--	--	--	S	--	--	--	--
137-096-16AAB3	DUKART, F.	--	35	0	48	--	--	--	S	125SNLB	--	--	--
137-096-16AAB4	DUKART, F.	--	80	80	6	1951	--	--	H	125SNLB	--	--	--
137-096-16CDB1	STICKA, O.	--	48	48	18	1958	--	--	S	125SNLB	--	8.2	--
137-096-16CDB2	STICKA, O.	--	56	36	6	1966	10.00	--	H	125SNLB	--	--	2610
137-096-18DDD1	STICKA, L.	--	28	28	6	--	6.00	--	H	125SNLB	--	--	--
137-096-18DDD2	STICKA, L.	--	35	35	18	--	--	--	S	125SNLB	--	--	--
137-096-19CBC1	WEILER, J.	--	15	0	48	--	--	--	H	125SNLB	--	--	--
137-096-19CBC2	WEILER, J.	--	228	228	4	1965	--	--	S	125SNLB	--	--	--
137-096-19CBC3	WEILER, J.	--	1100	--	3	1969	--	--	H,S	125LHCK	--	--	2678
137-096-20DBB	WANNER, M.	--	30	30	18	1957	--	--	H,S	125SNLB	--	--	--
137-096-21ADB1	DUKART, J.	--	33	--	48	1933	--	--	S	125SNLB	--	--	--
137-096-21ADB2	DUKART, J.	--	42	--	18	1948	13.00	--	H	125SNLB	--	--	--
137-096-228CC	FRANK, V.	--	40	--	18	--	18.00	--	H,S	125SNLB	--	7.7	--

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137-096-22CCC1	NDSWC3534	--	800	0	5	1967	--	--	U	--	--	--	2640
137-096-22CCC2	NDSWC 3534A	800	41	38	1.25	09/15/1967	14.00	10/26/1967	U	125SNLB	1010	9.0	2640
137-096-24CCC1	FRANK, F.	--	20	0	48	1905	--	--	S	125SNLB	--	--	--
137-096-24CCC2	FRANK, F.	--	22	22	12	--	--	--	H	125SNLB	--	--	--
137-096-26BBB1	FRANK, A.	--	20	0	48	1923	14.00	--	H,S	125SNLB	--	--	--
137-096-26BBB2	FRANK, A.	--	18	18	18	1959	12.00	--	S	125SNLB	--	7.7	--
137-096-26CBB	WANNER, P.	--	21	0	48	1899	12.00	05/ /1967	U	125SNLB	--	7.1	--
137-096-26DAA1	FRANK, N.	--	35	35	18	--	27.00	--	H	125SNLB	--	--	2680
137-096-26DAA2	FRANK, N.	--	40	0	48	1905	30.00	--	S	125SNLB	--	--	--
137-096-27BAB1	STEIER, J.	--	22	0	48	1909	10.00	--	S	125SNLB	--	8.8	--
137-096-27BAB2	STEIER, J.	--	20	20	6	--	18.00	--	H	125SNLB	--	--	--
137-096-28BAA	WEILER, F.	--	30	0	48	1907	24.00	--	H,S	125SNLB	--	--	--
137-096-28CDA1	WEILER, F.	--	19	0	110	1903	17.00	--	S	125SNLB	--	7.7	--
137-096-28CDA2	WEILER, F.	--	56	0	18	--	20.00	--	H	125SNLB	--	--	--
137-096-28CDA3	WEILER, F.	--	40	0	48	--	--	--	U	125SNLB	--	--	--
137-096-28CDA4	WEILER, F.	--	96	96	6	1961	--	--	S	125SNLB	--	--	--
137-096-30CCD	HUCK, J.	--	70	70	4	--	18.00	--	H,S	124GVSB	--	--	--
137-096-31BCC1	HUCK, G.	--	70	0	18	1941	55.00	--	S	125SNLB	--	--	2800
137-096-31BCC2	HUCK, G.	--	90	90	4	1964	60.00	--	H	125SNLB	--	--	2790
137-096-31CBB	HUCK, CLARENCE	98	98	88	4	05/26/1978	55.00	05/26/1978	S,H	--	2060	11.5	--
137-096-32BDD1	DENGEL, J.	--	22	22	18	1938	14.00	--	H	125SNLB	--	7.7	2800
137-096-32BDD2	DENGEL, J.	--	30	18	18	1965	14.00	--	S	125SNLB	--	8.2	2800
137-096-33DCB	STEIER, R.	--	20	0	48	1913	13.00	05/ /1967	U	125SNLB	--	--	2760
137-096-34BBB1	BRINGMEYER, H.	--	50	0	18	1937	41.00	--	H	125SNLB	--	--	--
137-096-34BBB2	BRINGMEYER, H.	--	60	60	4	1966	41.00	--	S	125SNLB	--	--	2715
137-096-34BBB3	BRINGMEYER, H.	1400	1400	0	4	1966	--	--	U	--	--	--	--
137-096-34DAB1	KATHREIN, J.	--	25	0	48	1933	15.00	--	S	125SNLB	--	--	2720
137-096-34DAB2	KATHREIN, J.	--	140	140	4	1956	80.00	--	H,S	125SNLB	--	--	2755
137-096-34DAB3	KATHREIN, J.	--	140	--	4	1966	80.00	--	S	125SNLB	--	6.6	2755
137-097-01ACD	KOSTELECKY, C.	--	66	0	18	1936	--	--	H,S	125SNLB	--	--	2755
137-097-02AA	OLHEISER, N.	--	36	--	--	--	--	--	H	125SNLB	--	--	--
137-097-02DAC1	OLHEISER, N.	--	22	20	48	1908	--	--	S	125SNLB	--	8.2	--
137-097-02DAC2	OLHEISER, N.	--	36	36	18	--	--	--	S	125SNLB	--	--	--
137-097-03DBB1	MEDUNA, C.	--	24	0	24	--	8.00	--	H,S	125SNLB	--	--	--
137-097-03DBB2	MEDUNA, CLEMENT	50	50	30	5	08/05/1981	10.00	08/05/1981	H	--	2700	10.5	--
137-097-08BBA1	JILEK, S.	--	200	--	6	1959	140.00	--	H	125SNLB	--	--	--
137-097-08BBA2	JILEK, S.	--	212	--	6	1962	152.00	--	S	125SNLB	--	8.2	--
137-097-08BCA	JILEK, STEVE	200	146	118	4	04/25/1980	57.00	04/25/1980	S,H	--	1650	11.0	--
137-097-09BB	PROD., SOUTHERN	--	9302	--	--	1955	--	--	U	--	--	--	2678
137-097-10AAA	WANNER, F.	--	44	44	18	1935	34.00	11/ /1966	U	125SNLB	--	--	2690

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137-097-10CBA	WANNER, M.	--	26	0	60	1908	6.00	--	H	125SNLB	--	--	--
137-097-13CCC1	BINSTOCK, J.	--	48	0	18	1935	28.00	--	S	125SNLB	--	--	--
137-097-13CCC2	BINSTOCK, J.	--	68	0	18	1945	18.00	--	S	125SNLB	--	9.3	--
137-097-13CCC3	BINSTOCK, J.	--	70	70	18	1961	20.00	--	H	125SNLB	--	--	--
137-097-13DDB	WEILER, J.	--	170	170	6	1936	--	--	H	125SNLB	--	--	--
137-097-14DCC	BINSTOCK, P.	--	70	70	18	--	--	--	H,S	125SNLB	--	--	--
137-097-18ABA	FITTERER, L.	--	35	35	10	--	--	--	H	123WRVR	--	--	--
137-097-18CCD	KASBERG, J.	--	34	--	12	--	24.00	11/ /1968	S	124GLDV	--	--	2800
137-097-20AAA	BRAUN, T.	--	50	50	18	1913	--	--	H,S	124GLDV	--	--	--
137-097-20DCA	KASBERG, H.	--	52	0	60	1908	40.00	--	H,S	125SNLB	--	--	--
137-097-20DCD	KASBERG, H.	--	32	0	60	1915	10.00	--	S	125SNLB	--	--	--
137-097-21AAA	EMMIL, WILLIAM	130	130	--	5	12/01/1980	70.00	12/01/1980	S	125FRUN	1020	13.0	--
137-097-21CCC	SCHOCK, CALLEN	154	154	146	5	12/21/1979	100.00	12/21/1979	H	--	2200	9.0	--
137-097-22AAB1	WANDLER, J.	--	40	--	18	1946	15.00	--	S	125SNLB	--	8.2	--
137-097-22AAB2	WANDLER, J.	--	60	--	18	1960	40.00	--	H	125SNLB	--	--	--
137-097-22DAD1	BINSTOCK, P.	--	18	--	18	1941	--	--	H	125SNLB	--	--	--
137-097-22DAD2	BINSTOCK, P.	--	68	0	12	1950	--	--	S	125SNLB	--	7.7	--
137-097-22DAD3	BINSTOCK, P.	--	135	--	6	1954	--	--	H	125SNLB	2590	--	--
137-097-22DAD4	BINSTOCK, P.	--	80	80	18	1961	--	--	S	125SNLB	--	8.2	--
137-097-23CCC	3678, NDSWC	--	200	0	--	1968	--	--	U	BEDROCK	--	--	2684
137-097-24BCB1	HERAUF, V.	--	40	40	18	--	--	--	S	125SNLB	--	7.7	--
137-097-24BCB2	HERAUF, V.	--	68	69	18	--	--	--	H	125SNLB	--	--	--
137-097-25ADC1	STOLZ, F.	--	58	58	18	1959	--	--	H	125SNLB	--	--	--
137-097-25ADC2	STOLZ, F.	--	82	--	6	1962	41.00	--	S	125SNLB	--	--	--
137-097-25ADC3	STOLZ, F.	--	230	--	6	1966	--	--	H	125SNLB	--	--	--
137-097-26DCD	ROLLER, L.	--	20	0	48	1921	11.00	11/ /1966	U	125SNLB	--	--	2790
137-097-28AAA	SCHOCH, J.	--	30	30	18	1916	--	--	S	125SNLB	--	--	--
137-097-28AAB	SCHOCK, IVO	445	440	410	2	03/31/1978	150.00	03/31/1978	H	--	1670	11.0	--
137-097-28BDA1	SCHUCH, J.	--	14	0	60	1915	10.00	--	S	125SNLB	--	--	--
137-097-28BDA2	SCHUCH, J.	--	127	127	18	1945	67.00	--	H	125SNLB	--	--	--
137-097-29DBC1	FRIEDT, F.	--	50	50	18	1948	30.00	--	S	125SNLB	--	--	--
137-097-29DBC2	FRIEDT, F.	--	190	--	4	1957	--	--	H	125SNLB	--	--	--
137-097-29DBC3	FRIEDT, F.	--	68	68	18	1958	12.00	--	S	125SNLB	--	--	--
137-097-30BBA	KIVIMAGI, R.	--	125	125	6	1961	--	--	H,S	125SNLB	--	--	--
137-097-31BDD	EHLIS, G.	--	255	255	4	1965	--	--	S	125SNLB	1340	9.4	2755
137-097-34AAC1	SCHOCH, R.	--	30	30	18	1918	--	--	S	125SNLB	--	--	--
137-097-34AAC2	SCHOCH, R.	--	24	24	24	1960	12.00	--	S	125SNLB	--	--	--
137-097-34AAC3	SCHOCH, R.	--	24	24	24	1961	12.00	--	H	125SNLB	--	--	--
137-097-34AAD1	FITTERER, PAUL	700	--	--	--	06/27/1979	--	--	--	--	--	--	--
137-097-34AAD2	FITTERER, PAUL	30	25	20	5	06/28/1979	10.00	06/28/1979	H	--	4590	12.0	--

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137-097-34BDD	WANDLER, J.	--	75	75	18	1944	60.00	--	U	125SNLB	--	--	--
137-097-34DDD	ROLLER, R.	--	39	--	12	--	12.00	11/ /1966	U	125SNLB	--	7.7	2790
137-098-02BAB	FISCHER, J.	--	76	0	24	--	--	--	S	125SNLB	--	--	2720
137-098-02CBB1	DECKER, J.	--	60	0	18	--	--	--	S	125SNLB	--	--	2737
137-098-02CBB2	DECKER, J.	--	80	80	4	1964	--	--	H,S	125SNLB	--	--	2738
137-098-02CCC	OLSON, E.	--	60	60	18	--	30.00	--	H,S	125SNLB	--	--	2753
137-098-02DAD	FISCHER, F.	--	72	72	18	1961	15.00	--	H	125SNLB	--	--	2746
137-098-02DDA1	FISCHER, F.	--	20	0	72	1904	30.00	--	S	125SNLB	--	--	2740
137-098-02DDA2	FISCHER, F.	--	165	165	4	1953	30.00	--	S	125SNLB	--	--	2743
137-098-03DAA1	KNOPIK, H.	--	65	60	18	1923	--	--	H,S	125SNLB	--	--	2745
137-098-03DAA2	KNOPIK, H.	--	54	54	18	1963	12.00	--	S	125SNLB	--	--	2740
137-098-04ADA	FISCHER, J.	--	76	0	48	1910	6.00	--	H,S	125SNLB	--	--	2760
137-098-04BAC	LANTZ, B.	--	120	100	4	1963	50.00	--	H,S	125SNLB	890	8.8	2768
137-098-06DDC	SCHMIDT	--	61	--	--	--	45.00	10/ /1966	U	125SNLB	--	--	2792
137-098-07CBA1	BINSTOCK, C.	--	19	0	24	--	10.00	10/ /1966	U	125SNLB	--	8.2	2764
137-098-07CBA2	BINSTOCK, C.	--	30	--	18	--	12.00	10/ /1966	U	125SNLB	--	11.0	2766
137-098-10BBB1	EMMIL, C.	--	60	60	18	--	10.00	--	U	125SNLB	--	--	2743
137-098-10BBB2	EMMIL, C.	--	120	--	4	1959	80.00	--	H,S	125SNLB	--	--	2746
137-098-10CDB	KNOPIK, H.	--	43	--	18	--	16.00	10/ /1966	U	125SNLB	--	--	2766
137-098-11AC	OIL, PLYMOUTH	--	10470	--	9	1953	--	--	U	--	--	--	2785
137-098-12BBB	3693, NDSWC	800	740	734	2	1969	277.00	05/ /1969	U	125CNBL	1590	13.5	2744
137-098-14AAA	KUNTZ, V.	--	110	90	4	1960	--	--	H,S	125SNLB	--	--	2783
137-098-17CCC1	BURWICK, H.	--	50	50	18	1948	38.00	--	S	125SNLB	--	8.2	2810
137-098-17CCC2	BURWICK, H.	--	117	117	4	1954	--	--	H	125SNLB	--	--	2810
137-098-21CBC1	HOLM, J.	--	78	0	18	1916	30.00	--	S	125SNLB	--	--	2765
137-098-21CBC2	HOLM, J.	--	80	80	4	--	--	--	H,S	125SNLB	--	5.0	2762
137-098-22AAA	PETERSON, G.	--	70	--	18	1952	--	--	H,S	125SNLB	--	--	2835
137-098-22CDD	PETERSON, G.	--	200	--	6	1923	75.00	--	H	125SNLB	--	--	2755
137-098-22DDD1	PETERSON, G.	--	200	--	6	1923	--	--	H,S	125SNLB	--	--	2758
137-098-22DDD2	PETERSON, G.	--	70	--	--	1946	--	--	H	125SNLB	--	--	2755
137-098-24ABA	EHLIS, RONALD	340	313	273	4	01/10/1979	226.00	01/10/1979	H	--	--	--	--
137-098-24ABB1	EHLIS, G.	--	200	200	6	--	--	--	S	125SNLB	--	--	2830
137-098-24ABB2	EHLIS, G.	--	300	--	5	1961	170.00	--	H,S	125SNLB	--	--	2750
137-098-26CAB	BURWICK, S.	--	130	--	18	--	--	--	H	125SNLB	--	--	2730
137-098-28BAD	JACOBSON, H.	--	98	98	24	1956	33.00	--	H	125SNLB	--	8.8	--
137-098-30BDB	BURWICK, H.	--	91	--	12	--	37.00	10/ /1966	U	125SNLB	--	--	2722
137-098-30DAA	WENDLING, E.	--	52	52	18	1925	25.00	--	U	125SNLB	--	--	2700
137-098-30DAB	WENDLING, E.	--	75	75	18	1940	35.00	--	U	125SNLB	--	--	2710
137-098-31AAD	NICHOLS, W.	--	62	0	18	1940	20.00	--	H,S	125SNLB	--	9.3	2740
137-098-31ADA	NICHOLS, DERROLD	72	70	--	4	07/24/1978	35.00	07/24/1978	S	125FRUN	3280	11.0	--

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137-098-32CCC	SANDVIK, E.	--	260	--	6	1963	100.00		--	H,S	125SBTR	--	--	2730
137-098-34BBC	MORRIS, W.	--	40	40	18	--	22.00		--	H,S	125SNLB	--	--	2690
137-098-35DAA	STOLZ, S.	--	63	--	18	1915	28.00		10/ /1966	U	125SNLB	--	--	2725
137-099-02ADD1	REISENAUER, F.	--	40	40	18	1964	8.00		--	H	125SNLB	--	--	2707
137-099-02ADD2	REISENAUER, F.	--	40	40	18	1965	8.00		--	S	125SNLB	--	--	2685
137-099-02DAD	DECKER, TED	50	50	25	6	07/17/1978	21.00	P	07/17/1978	H	125FRUN	1330	8.0	--
137-099-02DDA1	DECKER, T.	--	30	30	18	--	--		--	U	125SNLB	--	--	2700
137-099-02DDA2	DECKER, T.	--	25	25	18	1964	9.00		--	H,S	125SNLB	--	--	2700
137-099-03DBB	DECKER, T.	--	50	--	18	1926	15.00		--	S	125SNLB	--	11.0	2667
137-099-05DCD	BRINSTER, L.	--	--	--	--	--	--		--	S	125SBTR	--	--	2710
	ESTATE, M.FALLON													
137-099-06CCC1	SCHWARTZ, W.	--	40	--	18	1937	34.00		--	U	125SNLB	--	--	2723
137-099-06CCC2	SCHWARTZ, W.	--	80	--	6	1957	30.00		--	H	125SNLB	--	--	2725
137-099-06CCC3	SCHWARTZ, W.	--	52	52	18	1966	34.00		09/ /1966	S	125SNLB	--	--	2723
137-099-07AAA	DECKER, J.	--	25	0	12	--	11.00		09/ /1966	U	125SNLB	--	--	2717
137-099-09ABA	OE, N.	--	55	55	18	--	0.00		--	S	125SNLB	1800	9.0	2677
137-099-09BBB	3537, NDSWC	--	200	0	5	1967	--		--	U	BEDROCK	--	--	2724
137-099-10BCA	OE, N.	--	80	80	18	1927	3.00		--	S	125SNLB	--	--	2690
137-099-10BCB1	OE, N.	--	233	233	6	1946	--		--	H	125SNLB	--	--	2685
137-099-10BCB2	OE, N.	--	80	80	6	1965	0.00		--	S	125SNLB	--	--	2682
137-099-10DBD	BRAUN, C.	--	90	0	--	1943	--		--	H	125SNLB	--	--	2700
137-099-12ABB	FUGERE, G.	--	88	--	18	--	24.00		10/ /1966	S	125SNLB	--	10.0	2728
137-099-12BBA	REISENAUER, LARRY	40	40	20	5	10/09/1981	17.00		10/09/1981	H	--	2360	11.0	--
137-099-12CBB	UNDERLAND, A.	--	--	--	18	1912	--		--	S	125SBTR	--	10.0	2720
137-099-14AAA1	OUTETTE, A.	--	75	75	18	1946	--		--	S	125SNLB	--	--	2762
137-099-14AAA2	OUTETTE, A.	--	70	70	18	1959	--		--	H	125SNLB	--	--	2763
137-099-15BB	BRAUN, NO. PUMP	--	9446	633	11	1957	--		--	U	--	--	--	2719
137-099-20CCD	SMITH, P.	--	71	--	6	1965	25.00		--	H,S	125SNLB	--	8.8	2750
137-099-21BCB	BRINSTER, R.	--	82	82	18	--	--		--	H,S	125SNLB	--	--	2753
137-099-22CCC1	HECK, D.	--	93	0	18	1941	40.00		--	H,S	125SNLB	--	--	2750
137-099-22CCC2	HECK, D.	--	27	--	6	1962	14.00		--	H	125SNLB	--	--	2750
137-099-22DDC	HEIDT, A.	--	58	--	18	1947	--		--	H,S	125SNLB	--	--	2710
137-099-24BCB	HECK, A.	--	75	0	--	1948	--		--	H,S	125SNLB	--	9.3	2745
137-099-24DDD	3679, NDSWC	300	224	218	1	1968	113.00		12/ /1968	U	125SNLB	2540	10.5	2722
137-099-25BAA	SMITH, M.	--	--	--	--	--	--		--	S	125SBTR	--	9.3	2760
137-099-26ABB	HANSON, A.	--	19	--	--	--	11.00		09/ /1966	U	125SNLB	--	--	2722
137-099-26DDC	CHASKA, M.	--	70	--	6	--	37.00		10/ /1966	S	125SNLB	--	10.5	2712
137-099-28CBC	HECKER, J.	--	34	--	18	--	8.00		09/ /1966	U	125SNLB	--	--	2738
137-099-32ABB	HENSON, H.	--	38	--	--	--	10.00		09/ /1966	U	125SNLB	--	--	2750
137-099-33BCB	HECKER, B.	--	65	65	16	1953	--		--	H,S	125SNLB	--	9.3	2740
137-099-34AAA1	CHASKA, M.	--	18	18	--	--	--		--	H	125SNLB	--	--	2695

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137-099-34AAA2	CHASKA, M.	--	45	--	--	--	--	--	H	125SNLB	--	--	2692
137-099-34AAA3	CHASKA, M.	--	56	--	--	--	--	--	S	125SNLB	--	--	2692
137-099-34AAA4	CHASKA, M.	--	57	--	--	--	--	--	H,S	125SNLB	--	--	2695
137-100-08ADD	GEARY, CECIL	--	35	--	18	01/01/1945	24.00	--	S,H	125SNLB	850	7.5	--
137-100-09DD	GOV'T-MCCAULEY, 2	8282	--	--	--	01/08/1962	--	--	--	--	--	--	2914
137-100-10CD	GOV'T-MCCAULEY, 1	8243	--	--	--	11/04/1961	--	--	--	--	--	--	2884
137-100-14CB	E.A.SMITH, 1	6362	--	--	--	03/12/1957	--	--	--	--	--	--	2621
137-100-15AB	LUCY FRITZ, 5	8215	--	--	--	07/18/1961	--	--	--	--	--	--	2882
137-100-15AD	FRITZ, 7	8150	--	--	--	09/23/1965	--	--	--	--	--	--	2841
137-100-15BB	LUCY FRITZ, 4	8278	--	--	--	06/27/1961	--	--	--	--	--	--	2897
137-100-15BD	FRITZ, 3	8275	--	--	--	12/26/1957	--	--	--	--	--	--	2900
137-100-15CB1	E.A.SMITH, 1	6363	--	--	--	03/12/1957	--	--	--	--	--	--	2821
137-100-15CB2	FRITZ, 6	8410	--	--	--	02/20/1963	--	--	--	--	--	--	2907
137-100-15DB	FRITZ, 2	8178	--	--	--	09/23/1957	--	--	--	--	--	--	2648
137-100-15DD	FRITZ, 1	9382	--	--	--	01/01/1957	--	--	--	--	--	--	2841
137-100-16AD	STATE, 1	8300	--	--	--	02/01/1958	--	--	--	--	--	--	2886
137-100-22AB	FRITZ, 1	8189	--	--	--	04/15/1958	--	--	--	--	--	--	2841
137-100-22AD	FRITZ, 2-4222	8250	--	--	--	09/15/1965	--	--	--	--	--	--	2843
137-100-22CCC1	NDSWC 5141	342	--	--	--	07/07/1977	--	--	--	--	--	--	2945
137-100-22CCC2	NDSWC 5141A	302	302	296	2	07/07/1977	289.49	09/17/1977	U	125TRVL	--	--	2945
137-100-22CD	GOV'T-MCCAULEY, 1	8258	--	--	--	11/18/1958	--	--	--	--	--	--	2894
137-100-22DD	FRITZ, 3-4422	8312	--	--	--	06/21/1967	--	--	--	--	--	--	2682
137-100-23BB	GUST WOG, 1	8379	--	--	--	09/29/1957	--	--	--	--	--	--	2838
137-100-25DC	GUST WOG, 34-25	8170	--	--	--	11/18/1969	--	--	--	--	--	--	2824
137-100-27AB	AM LUTH CHURCH, 2-27	8250	--	--	--	04/07/1971	--	--	--	--	--	--	2897
137-100-35AA	AM LUTH CHURCH, 1-4135	8315	--	--	--	05/26/1970	--	--	--	--	--	--	2839
137-100-36AAC	STATE, 41X-36	8155	--	--	--	10/19/1969	--	--	--	--	--	--	2822
137-100-36BA	STATE, 21-36	8233	--	--	--	02/28/1970	--	--	--	--	--	--	2814
138-096-02BBB1	FISHER, N.	--	40	40	18	1947	20.00	--	S	125SNLB	--	--	2514
138-096-02BBB2	FISHER, N.	--	20	20	6	1947	10.00	--	H	125SNLB	--	8.8	2513
138-096-02BBC	FISHER, N.	--	30	0	48	--	15.00	--	S	125SNLB	--	--	2505
138-096-02CBB	HATZENBUHLER, F.	--	86	86	18	--	63.00	--	H,S	125SNLB	--	--	2498
138-096-02DCC	HATZENBUHLER, F.	--	152	--	6	1967	45.00	05/ /1967	U	125SNLB	--	--	2516
138-096-02DDD	HATZENBUHLER, F.	--	40	0	48	--	32.00	05/ /1968	U	125SNLB	--	--	2470
138-096-03BBB1	VOGEL, J.	--	150	150	6	1948	--	--	U	125SNLB	--	--	2585
138-096-03BBB2	VOGEL, J.	--	220	220	4	1960	150.00	--	H,S	125SNLB	--	--	2585
138-096-04ABB	DICKINSON	--	200	200	6	1951	--	--	C	125SNLB	--	--	2593
138-096-05BBB1	KOSTELECKY, L.	--	80	80	18	1947	65.00	--	U	124GVSB	--	--	2537
138-096-05BBB2	KOSTELECKY, L.	--	215	215	6	1962	70.00	--	H,S	125SNLB	--	--	2539
138-096-06BCB1	DVORAK, V.	--	105	0	16	--	0.00	--	H,S	124GVSB	--	6.0	2529

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138-096-06BCB2	DVORAK, V.	--	19	0	6	1957	16.00	--	U	124GLDV	--	5.5	2528
138-096-07CDD	GRESSER, D.	--	48	48	18	1945	24.00	--	S	124GVSB	--	--	2565
138-096-07DCC1	HONDL, G.	--	60	60	18	1957	30.00	--	S	124GVSB	--	--	2558
138-096-07DCC2	HONDL, GEORGE	46	46	--	24	09/28/1972	24.00	09/28/1972	S	--	465	8.0	--
138-096-08CDD1	ALLEN, H.	--	55	--	--	--	47.00	--	S	124GVSB	--	5.0	2536
138-096-08CDD2	ALLEN, H.	--	296	296	6	1965	116.00	--	H,S	125SNLB	--	--	2534
138-096-09DAD	KUHN, A.	--	140	120	4	1966	40.00	--	H,S	125SNLB	--	--	2504
138-096-10BCC	LIVESTOCK, CENTRAL	140	140	120	5	03/19/1975	65.00	03/19/1975	S,H	--	2140	12.0	--
138-096-10DAD	STOLTZ, G.	--	80	80	18	--	20.00	--	H,S	125SNLB	--	--	2490
138-096-11DDA	BERGER, L.	--	60	0	18	1923	--	--	S	125SNLB	--	7.5	2467
138-096-11DDB1	BERGER, L.	--	42	42	18	1945	--	--	H	125SNLB	--	--	2460
138-096-11DDB2	BERGER, L.	--	22	22	36	1964	10.00	--	S	125SNLB	--	--	2464
138-096-14AAA	FRENZEL, J.	--	25	0	48	1907	18.00	05/ /1967	U	125SNLB	--	--	2452
138-096-14BAB1	DECKER, J.	--	21	0	48	1902	18.00	--	H,S	125SNLB	--	--	2450
138-096-14BAB2	DECKER, J.	--	20	0	48	--	1.00	--	H	125SNLB	--	--	2453
138-096-14DDD1	FRENZEL, R.	--	30	0	48	1895	24.00	--	S	125SNLB	--	6.6	2462
138-096-14DDD2	FRENZEL, R.	--	55	55	4	1964	--	--	H	125SNLB	--	--	--
138-096-15BBB1	DULAJAK, M.	--	65	65	6	--	22.00	--	H	125SNLB	--	--	2483
138-096-15BBB2	DULAJAK, M.	--	65	65	6	1963	22.00	--	H	125SNLB	--	--	2490
138-096-15BBB3	DULAJAK, M.	--	60	60	6	1963	22.00	--	H	125SNLB	--	--	2487
138-096-15BBB4	DULAJAK, M.	--	65	65	6	1963	22.00	--	S	125SNLB	--	--	2490
138-096-16ADA	3536, NUSWC	170	55	52	1	1967	33.00	10/ /1967	U	125SNLB	1050	9.5	2508
138-096-16CDC	MAUS, J.	--	26	0	26	1916	--	--	H,S	125SNLB	--	6.6	2525
138-096-17AAA1	DULAJAK, F.	--	20	0	48	1900	14.00	--	S	125SNLB	--	4.3	2522
138-096-17AAA2	DULAJAK, F.	--	40	40	18	1948	--	--	U	125SNLB	--	7.1	2524
138-096-17AAA3	DULAJAK, F.	--	180	180	6	1952	--	--	H	125SNLB	--	--	2522
138-096-17AAA4	DULAJAK, F.	--	130	130	6	1962	--	--	S	125SNLB	--	7.7	2522
138-096-17AAA5	KUHN, JEFF	200	200	186	5	10/05/1981	105.00	10/05/1981	H	--	1340	10.5	--
138-096-18ABB1	HONDL, G.	--	30	0	60	1916	15.00	--	H	124GLDV	--	--	2557
138-096-18ABB2	HONDL, G.	--	60	60	18	1963	40.00	--	S	124GVSB	--	7.7	2558
138-096-18BAA1	GRESSER, D.	--	28	0	72	1901	11.00	--	H,S	124GLDV	--	--	2563
138-096-18BAA2	GRESSER, D.	--	28	0	72	1937	14.00	--	H	124GLDV	--	--	2562
138-096-20AAD1	STOCKERT, L.	--	14	0	48	1896	4.00	--	S	124GLDV	--	--	2531
138-096-20AAD2	STOCKERT, L.	--	28	28	18	--	--	--	S	124GVSB	--	7.7	2530
138-096-20AAD3	STOCKERT, L.	--	18	--	18	1958	--	--	H	124GLDV	--	--	2532
138-096-20AAD4	STOCKERT, L.	--	16	16	18	1964	--	--	S	124GLDV	--	--	2532
138-096-20AAD5	STOCKERT, L.	--	30	30	6	1966	--	--	S	124GVSB	--	--	2530
138-096-21ADA1	DOLAJAK, J.	--	160	--	4	1907	40.00	--	H	125SNLB	--	--	2592
138-096-21ADA2	DOLAJAK, J.	--	80	80	6	1966	--	--	U	125SNLB	--	--	--
138-096-21ADA3	WEINSCHROTT, FRANK	185	179	148	5	03/31/1976	136.00	03/31/1976	H	--	2550	13.0	--

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138-096-21DDD1	DULAJAK, V.	--	160	160	6	1950	80.00	--	H,S	125SNLB	--	--	2584
138-096-21DDD2	3535, NDSWC	400	201	198	--	1967	109.00	12/ /1967	U	125SNLB	--	--	2607
138-096-22DAA	DECKER, J.	--	40	40	18	1962	15.00	--	S	125SNLB	--	--	2512
138-096-23DBB1	OLHEISER, P.	--	23	0	48	1919	--	--	S	125SNLB	--	--	2475
138-096-23DBB2	OLHEISER, P.	--	40	40	18	1963	--	--	S	125SNLB	--	--	2475
138-096-23DBB3	OLHEISER, P.	--	30	30	6	1963	--	--	H	125SNLB	--	--	2475
138-096-25BAC1	FRENZEL, M.	--	35	35	18	1929	20.00	--	H	125SNLB	--	--	--
138-096-25BAC2	FRENZEL, M.	--	35	35	18	1945	20.00	--	S	125SNLB	--	--	--
138-096-25BAC3	FRENZEL, M.	--	35	35	18	1950	20.00	--	S	125SNLB	--	--	--
138-096-26AAC1	FRENZEL, M.	--	100	100	4	1949	40.00	--	S	125SNLB	--	8.8	--
138-096-26AAC2	FRENZEL, M.	--	100	100	4	1965	40.00	--	H	125SNLB	--	--	--
138-096-27CCD	FRITZ, N.	--	60	60	6	1966	--	--	H,S	125SNLB	--	--	--
138-096-27DDD	BINSTOCK, L.	--	55	55	18	1964	--	--	H	124GVSB	--	--	--
138-096-28AAA	3535A, NDSWC	220	192	189	1	1969	87.00	05/ /1969	U	125SNLB	1410	--	--
138-096-30BAB	WALBAUM, J.	--	61	61	18	1949	41.00	--	S	125SNLB	--	9.0	2594
138-096-32BDA	OLHEISER, J.	--	180	180	6	1947	80.00	--	H,S	125SNLB	--	--	2690
138-096-32DDB1	SCHANK, J.	--	33	0	48	1906	20.00	--	H	125SNLB	--	8.2	--
138-096-32DDB2	SCHANK, J.	--	30	30	18	--	12.00	--	S	125SNLB	--	--	--
138-096-33AUD1	STICKA, M.	--	64	--	--	1949	--	--	U	125SNLB	--	--	--
138-096-33ADD2	STICKA, M.	--	92	80	4	1949	35.00	--	H,S	125SNLB	--	--	--
138-096-33DCC	MARTHALLER, LARRY	175	160	130	4.50	12/04/1980	53.00	12/04/1980	H	--	--	--	2570
138-096-33DDA	3720, NDSWC	--	200	--	--	1969	--	--	H	BEDROCK	--	--	--
138-096-34CBA1	FILIPI, S.	--	25	0	48	--	10.00	--	U	125SNLB	--	--	2528
138-096-34CBA2	FILIPI, S.	--	36	36	18	1952	10.00	--	S	125SNLB	--	6.6	--
138-096-34CBA3	FILIPI, S.	--	40	40	18	1962	10.00	--	S	125SNLB	--	--	--
138-096-35ACC1	DOLECHEK, V.	--	60	60	18	1928	--	--	H	125SNLB	--	--	--
138-096-35ACC2	DOLECHEK, V.	--	65	65	18	1957	40.00	--	H	125SNLB	--	--	--
138-096-35BAA	DOLECHEK, V.	--	50	50	18	1960	35.00	--	S	125SNLB	--	9.5	--
138-097-02ADD1	DUKROP, F.	--	32	0	60	1918	20.00	--	H	125SNLB	--	--	--
138-097-02ADD2	DUKROP, F.	--	132	--	4	1963	30.00	07/ /1967	U	125SNLB	--	--	--
138-097-02ADD3	DUKROP, F.	--	150	120	4	1964	--	--	H	125SNLB	1110	8.9	2564
138-097-02BCB	DECKER, P.	--	165	165	4	1965	--	--	S	125SNLB	--	8.2	2575
138-097-02CCC1	HONDL, M.	--	19	0	60	1936	--	--	H,S	125SNLB	--	--	2560
138-097-02CCC2	HONDL, M.	--	32	32	18	1946	5.00	--	H	124GLDV	--	5.5	2545
138-097-03DDD	HONDL, M.	--	32	--	18	1946	--	--	S	124GVSB	--	7.7	2590
138-097-04BCC1	PRIVRATSKY, A.	--	22	0	18	--	--	--	S	124GVSB	--	--	2590
138-097-04BCC2	PRIVRATSKY, A.	--	22	22	18	1963	6.00	--	S	124GLDV	--	7.7	--
138-097-04CCC	DVORAK, A.	--	110	0	18	1925	6.00	--	H	124GLDV	--	--	--
138-097-07CBC1	JR., E.EBERTS	--	35	35	18	1945	98.00	--	H,S	125SNLB	--	7.7	--
138-097-07CBC2	JR., E.EBERTS	--	30	30	18	1945	15.00	--	S	123WRVR	--	--	2670
							15.00	--	H	123WRVR	--	--	--

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
138-097-07DDD	21-748, NDSWC	--	360	0	--	1962	--	--	U	BEDROCK	--	--	2647
138-097-08BBB	VEVERKA, V.	--	12	12	36	1962	2.00	--	H,S	--	--	7.7	--
138-097-10AAA	DECKER, A.	--	30	30	18	1961	--	--	H,S	125SNLB	--	9.3	2590
138-097-10DCC1	MATZENBUHLER, A.	--	15	0	60	1913	8.00	--	H	--	--	5.5	--
138-097-10DCC2	MATZENBUHLER, A.	--	60	60	18	1961	28.00	--	S	124GVSB	--	8.2	2600
138-097-11BBB	DECKER, L.	--	30	30	18	1956	--	--	S	124GLDV	--	--	--
138-097-12DDC	HONDL, G.	--	90	90	18	1934	54.00	12/ /1966	S	124GVSB	--	7.1	2694
138-097-14ADA1	FISHER, M.	--	32	32	6	1947	12.00	--	H	123WRVR	--	--	2670
138-097-14ADA2	FISHER, M.	--	165	150	2	1956	85.00	--	S	124GLDV	--	--	2670
138-097-14BDA1	KOSTELECKY, F.	--	14	0	--	--	9.00	--	H	123WRVR	--	--	--
138-097-14BDA2	KOSTELECKY, F.	--	42	42	18	1962	8.00	--	S	123WRVR	--	--	2690
138-097-18ACC1	EBERTS, A.	--	80	80	6	--	30.00	--	S	123WRVR	--	--	2765
138-097-18ACC2	EBERTS, A.	--	65	65	18	1945	35.00	--	H,S	123WRVR	--	--	--
138-097-18DD	EBERTS, ATLANTIC	--	9096	--	--	1959	--	--	U	--	--	--	2716
138-097-20BDD1	HERAUF, E.	--	86	86	18	193B	20.00	--	S	125SNLB	--	--	2656
138-097-20BDD2	HERAUF, E.	--	100	--	18	1954	20.00	--	H	125SNLB	--	--	2656
138-097-20BDD3	HERAUF, E.	--	85	--	5	1967	--	--	S	125SNLB	--	--	2656
138-097-22CAB1	SIMEK, J.	--	12	0	60	1900	4.00	--	H	124GLDV	--	--	2700
138-097-22CAB2	SIMEK, J.	--	24	18	18	1948	14.00	--	S	124GLDV	--	--	2700
138-097-22CAB3	SIMEK, J.	--	140	140	4	1960	100.00	--	H,S	124GLDV	--	--	--
138-097-22CDC	FROEHLICH, W.	--	125	--	18	1945	--	--	U	125SNLB	--	--	--
138-097-24ACC1	HEIDT, R.	--	60	60	18	1938	--	--	S	124GVSB	--	--	2610
138-097-24ACC2	HEIDT, R.	--	34	34	18	1946	--	--	H	124GLDV	--	--	2610
138-097-24ACC3	HEIDT, R.	--	73	73	18	1956	--	--	S	124GVSB	--	--	2600
138-097-24BDD	HEIDT, R.	--	24	0	72	1938	8.00	--	H,S	124GLDV	--	--	2603
138-097-24CAA1	WOLBAUM, J.	--	30	0	60	1910	26.00	--	H,S	124GLDV	--	--	2609
138-097-24CAA2	WOLBAUM, J.	--	30	30	18	--	16.00	--	S	124GLDV	--	--	2602
138-097-24CAA3	WOLBAUM, J.	--	40	--	18	1950	24.00	--	S	124GLDV	--	--	2600
138-097-26ABB	DECKER, M.	--	48	--	18	--	13.00	12/ /1966	U	124GLDV	--	--	2690
138-097-27BBB	FROEHLICH, W.	--	30	30	18	--	--	--	U	124GLDV	--	--	2685
138-097-28AAA	DECKER, M.	--	30	30	18	--	--	--	S	123WRVR	--	--	--
138-097-28AAB	DECKER, M.	--	30	30	18	--	--	--	S	123WRVR	--	--	--
138-097-28AAD1	DECKER, M.	--	30	30	18	--	--	--	S	123WRVR	--	--	--
138-097-28AAD2	DECKER, M.	--	30	30	18	--	--	--	S	123WRVR	--	--	--
138-097-28AAD3	DECKER, M.	--	30	30	18	--	--	--	H	123WRVR	--	--	--
138-097-28BDD1	OBRITSCH, A.	--	60	0	18	1950	30.00	--	S	--	--	--	2800
138-097-28BDD2	OBRITSCH, A.	--	50	50	18	1957	35.00	--	H	123WRVR	--	--	--
138-097-31CDA	KOSTENKO, JOSEPH	180	172	147	5	09/24/1976	12.00	09/24/1976	H	--	1550	10.0	--
138-097-32CBC	PALASMA, E.	--	9	0	12	--	6.00	12/ /1966	U	124GLDV	--	--	2680
138-097-32DCD	BEZDICEK, F.	--	20	--	18	--	12.00	12/ /1966	U	124GLDV	--	6.6	2690

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138-097-34BDB	FROEHLICH, THOMAS	52	52	38	5	07/30/1980	27.00	07/30/1980	S	--	410	10.0	--
138-098-01BBB1	EBERTS, A.	--	60	--	18	--	30.00	--	U	125SNLB	--	--	2600
138-098-01BBB2	EBERTS, A.	--	300	300	6	1945	150.00	--	S	125SNLB	--	--	2600
138-098-01DBC	EBERTS, A.	--	80	80	6	1963	40.00	--	S	124GLDV	--	--	--
138-098-02ADD	KUDRNA, A.	--	32	32	12	--	12.00	09/ /1966	U	125SNLB	--	--	2600
138-098-02BCC1	LUPTAK, E.	--	72	72	18	1940	62.00	--	S	125SNLB	--	9.3	2616
138-098-02BCC2	LUPTAK, E.	--	130	--	4	1949	110.00	--	H	125SNLB	--	--	2606
138-098-03ADD	LUPTAK, E.	--	46	46	18	--	20.00	09/ /1966	S	125SNLB	--	--	2612
138-098-03CCC	N.P. DX360-22	--	140	--	--	1962	--	--	U	BEDROCK	--	--	2590
138-098-04ADA	PRAUS, V.	--	72	72	18	1929	35.00	--	S	125SNLB	--	--	2623
138-098-04DDD1	PRAUS, V.	--	30	30	18	1954	15.00	--	U	124GVSB	--	--	2610
138-098-04DDD2	PRAUS, V.	--	57	--	5	1960	--	--	H	125SNLB	--	--	2612
138-098-05BBB	HURT, F.	--	67	67	18	1949	16.00	--	H,S	125SNLB	--	--	2578
138-098-07BBD1	WAGNER, A.	--	78	--	5	1952	30.00	--	H,S	125SNLB	--	--	2585
138-098-07BBD2	WAGNER, A.	--	52	--	18	1952	17.00	--	S	125SNLB	--	12.1	2582
138-098-07BCA	WAGNER, A.	--	48	48	18	1950	31.00	--	S	125SNLB	--	10.5	2583
138-098-07BCB	WAGNER, A.	--	36	36	18	--	16.00	--	H	125SNLB	--	--	2575
138-098-08ACD1	METZ, S.	--	--	--	--	--	15.00	--	H,S	125SNLB	--	11.0	2590
138-098-08ACD2	METZ, S.	--	28	--	18	--	14.00	09/ /1966	U	125SNLB	--	--	2590
138-098-10AAA	HUSCHKA, N.	--	60	--	12	1910	--	--	H	125SNLB	--	--	2610
138-098-10AAC	HUSCHKA, N.	--	204	204	6	1952	--	--	S	125SNLB	--	15.0	2602
138-098-12AAA1	FISHER, A.	--	14	0	60	--	--	--	H	123MRVR	--	12.1	--
138-098-12AAA2	FISHER, A.	--	14	0	60	--	--	--	S	123MRVR	--	--	--
138-098-15AAA	PRIVRATSKY, ALBERT	80	80	72	4.50	02/25/1981	40.00	02/25/1981	H	125FRUN	2420	13.0	--
138-098-15AAD1	PRIVRATSKY, A.	--	75	--	18	1933	--	--	U	125SNLB	--	--	2642
138-098-15AAD2	PRIVRATSKY, A.	--	160	--	4	1952	10.00	--	H	125SNLB	--	--	--
138-098-15BB	PRIVRATSKY, HUNT	--	12204	--	--	1955	--	--	U	--	--	--	2642
138-098-18CCD	SCHMITZ, ED	220	220	183	5	04/09/1973	90.00	04/09/1973	H,S	--	1470	--	2641
138-098-19BCC1	SCHMIDT, J.	--	93	93	36	1955	60.00	--	S	125SNLB	--	10.0	--
138-098-19BCC 2	SCHMIDT, J.	--	30	30	36	1961	14.00	--	H	125SNLB	--	8.8	2634
138-098-20CBB	SCHMIDT, J.	--	32	--	12	1963	14.00	09/ /1966	S	125SNLB	--	10.5	2653
138-098-22DAC	KOVASH, A.	--	37	37	48	1928	--	--	U	124GVSB	--	--	2672
138-098-24DAA1	OBRITSCHKEWISCH	--	30	--	18	1952	20.00	--	S	123WRVR	--	--	2697
138-098-24DAA2	OBRITSCHKEWISCH	--	180	180	6	1960	120.00	--	H,S	124GVSB	--	12.1	2790
138-098-24DDD1	HUSCHKA, A.	--	206	--	6	1949	--	--	U	125SNLB	--	--	2790
138-098-24DDD2	HUSCHKA, A.	--	251	--	6	1961	50.00	--	H,S	125SNLB	--	12.1	2790
138-098-26DCD1	PRIVRATSKY, F.	--	85	61	18	1942	60.00	--	H,S	124GVSB	--	--	2750
138-098-26DCD2	PRIVRATSKY, F.	--	213	--	4	1950	60.00	--	H,S	125SNLB	--	--	2750
138-098-27ADD1	BINSTOCK, R.	--	80	0	18	1936	--	--	H	124GVSB	--	--	2740
138-098-27ADD2	BINSTOCK, R.	--	190	190	6	1958	60.00	--	S	125SNLB	--	--	2742

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138-098-29DAC1	MEDUNA, P.	--	35	35	18	--	4.00	--	H,S	124GLDV	--	--	2765
138-098-29DAC2	MEDUNA, P.	--	35	0	18	--	6.00	--	S	124GLDV	--	--	2765
138-098-30AAD	MEDUNA, P.	--	90	--	6	1951	15.00	--	S	125SNLB	--	--	2745
138-098-31DCC1	BAHLEY, R.	--	28	0	24	1933	18.00	--	U	124GLDV	--	--	2755
138-098-31DCC2	BAHLEY, R.	--	50	50	18	1940	25.00	--	S	125SNLB	--	--	2755
138-098-31DCC3	BAHLEY, R.	--	290	--	6	1960	170.00	--	H	125SNLB	--	--	2755
138-098-33AAA	BINSTOCK, F.	--	78	78	18	--	30.00	--	H,S	124GLDV	--	--	2760
138-098-33AAC	BINSTOCK, F.	--	190	190	6	1962	90.00	--	S	125SNLB	--	--	2755
138-098-34BAA	BINSTOCK, C.	--	72	72	18	--	--	--	H,S	124GVSB	--	11.6	2735
138-098-36ACC1	HONDL, L.	--	72	72	18	1952	55.00	--	H	124GVSB	--	--	2720
138-098-36ACC2	HONDL, L.	--	82	82	18	1959	--	--	S	124GVSB	--	10.5	2720
138-099-01CBC	FISCHER, N.	--	255	255	4	1965	--	--	H	125SNLB	--	--	2570
138-099-02DBA1	WOLF, E.	--	45	45	12	1946	--	--	H	125SNLB	--	--	2587
138-099-02DBA2	WOLF, E.	--	60	60	18	--	--	--	S	125SNLB	--	8.8	2575
138-099-04DCB1	KUNTZ, R.	--	50	0	48	1900	10.00	--	S	125SNLB	--	--	2614
138-099-04DCB2	KUNTZ, R.	--	50	0	18	1944	15.00	--	S	125SNLB	--	8.8	2617
138-099-04DCB3	KUNTZ, R.	--	60	--	18	1953	45.00	--	H	125SNLB	--	--	2614
138-099-05AA	TESSIER, TOMAS	400	380	355	4	07/21/1977	219.00	07/21/1977	S	--	1650	10.0	--
138-099-05DDD	TESSIER, DUANE	700	695	665	5	09/23/1980	277.00	09/23/1980	H	--	1550	14.0	--
138-099-06ADA1	KUNTZ, R.& S.	--	58	33	18	1951	27.00	--	H	125SNLB	--	--	2652
138-099-06ADA2	KUNTZ, R. & S.	--	59	--	18	1964	50.00	--	S	125SNLB	--	10.0	2653
138-099-06ADA3	KUNTZ, R. & S.	--	59	--	18	1964	12.00	--	H,S	125SNLB	--	--	2647
138-099-07DAC	FUGERE, N.	--	38	0	18	1960	16.00	--	S	125SNLB	--	--	2645
138-099-08ADD1	KUNTZ, C.	--	185	185	6	1962	--	--	S	125SNLB	--	9.3	2642
138-099-08ADD2	FROELICH, RALPH	835	800	770	4	11/30/1977	250.00	11/30/1977	S	--	1600	8.0	--
138-099-08CBB1	FUGERE, D.	--	22	22	6	1942	18.00	--	S	125SNLB	--	--	2643
138-099-08CBB2	FUGERE, D.	--	40	0	18	1956	16.00	--	S	125SNLB	--	8.2	2640
138-099-08DAD	TESSIER, H.	--	200	--	6	1958	--	--	H	125SNLB	--	--	2630
138-099-08DDA	TESSIER, H.	--	80	0	24	--	--	--	S	125SNLB	8010	7.5	2633
138-099-09CB	1,SUN,BEAUDOIN	--	9562	--	--	1954	--	--	U	--	--	--	2630
138-099-12CCB1	KESSLER, S.	--	45	45	16	--	--	--	H	125SNLB	--	--	2593
138-099-12CCB2	KESSLER, S.	--	65	--	4	1960	--	--	S	125SNLB	--	10.5	2593
138-099-12CCC	MEYER, IVAN	680	680	610	5	11/29/1972	200.00	11/29/1972	H,S	--	1600	11.0	--
138-099-14BAA	KESSLER, CHARLES	120	105	75	5	04/12/1976	48.00	04/12/1976	H	--	1910	13.0	--
138-099-14DDD1	DORVAL, A.	--	62	62	18	1961	40.00	--	S	125SNLB	--	--	2620
138-099-14DDD2	DORVAL, A.	--	47	47	18	1965	27.00	--	H	125SNLB	--	--	2632
138-099-17AAA	3538, NDSWC	--	200	0	5	1967	0.00	--	U	BEDROCK	--	--	2665
138-099-17BAA	FALLON, M.	--	12	--	6	--	4.00	09/ /1966	U	125SNLB	--	--	2642
138-099-19BDA1	MILLER, M.	--	68	68	24	1956	--	--	S	125SNLB	--	--	2700
138-099-19BDA2	MILLER, M.	--	72	--	8	1961	27.00	--	H	125SNLB	--	10.5	2700

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138-099-20ABA	BRAATEN, H.	--	60	--	5	1961	12.00	--	H,S	125SNLB	--	8.8	2675
138-099-23AAA	KUBISCHTA, V.	--	52	52	24	1933	27.00	--	H,S	125SNLB	--	10.0	2682
138-099-24BCB	MEYER, IVAN	135	130	100	4	09/14/1976	33.00	09/14/1976	S	--	--	--	--
138-099-24CCC	NDSWC 3690	840	833	756	2	12/03/1968	12.00	12/10/1968	U	125CBLD	984	11.5	2620
138-099-24DAA	WEIGUM, V.	--	30	30	6	--	--	--	H,S	124GVSB	--	10.5	2673
138-099-25BD	1,SKELLY,WEIGUM	--	9402	--	--	--	--	--	U	--	--	--	--
138-099-26AAB1	RIDL, H.	--	28	0	18	1957	15.00	--	H	--	--	--	2632
138-099-26AAB2	RIDL, H.	--	58	58	18	1934	--	--	S	125SNLB	--	--	2623
138-099-27CBB1	EMIL, H.	--	65	65	18	1954	45.00	--	H	125SNLB	--	--	2623
138-099-27CBB2	EMIL, H.	--	70	70	18	1948	25.00	--	S	125SNLB	--	--	2662
138-099-28ABB1	HERAUF, F.	--	80	80	18	1963	60.00	--	S	125SNLB	--	9.3	2660
138-099-28ABB2	HERAUF, F.	--	80	80	18	1945	60.00	--	S	125SNLB	--	10.0	2688
138-099-28ABB3	HERAUF, F.	--	60	60	18	1946	52.00	--	H	125SNLB	--	--	2686
138-099-28ABB4	RICHARDS, RAYMOND	412	392	362	4	1950	218.00	07/26/1977	H	--	1560	--	2692
138-099-29DAD	HATZENBILER, P.	--	55	0	18	07/26/1977	--	--	H	125SNLB	--	13.0	--
138-099-29DDA	HATZENBILER, P.	--	70	--	18	1946	12.00	--	H	125SNLB	--	10.5	2695
138-099-32AAC	MOLM, C.	--	48	0	12	1951	38.00	09/ /1966	U	125SNLB	--	--	2696
138-099-32DDD	MOLM, C.	--	215	215	5	--	155.00	--	H,S	125SNLB	--	--	2700
138-099-33CDC	HUTZENBILER, J.	--	240	--	4	1965	100.00	--	H	125SNLB	--	9.3	2697
138-099-33CDD	HUTZENBILER, J.	--	120	--	3	1964	35.00	--	S	125SNLB	--	--	2689
138-099-34DBC	HUTZENBILER, L.	--	40	0	12	1955	--	--	U	125SNLB	--	12.1	2687
138-099-34DCB1	HUTZENBILER, L.	--	40	0	12	1955	15.00	--	S	125SNLB	--	--	2649
138-099-34DCB2	HUTZENBILER, L.	--	40	0	12	1946	10.00	--	U	125SNLB	--	10.5	2640
138-099-35AAC	DECKER, J.	--	60	60	18	1947	--	--	H,S	125SNLB	--	--	2648
138-099-35BCA1	DECKER, P.	--	40	0	18	--	--	--	S	125SNLB	--	10.5	2643
138-099-35BCA2	DECKER, P.	--	36	--	18	1934	10.00	--	I	125SNLB	--	--	2643
138-099-35BCA3	DECKER, P.	--	25	25	18	1938	11.00	--	H	125SNLB	--	--	2643
138-099-35BCA4	DECKER, P.	--	50	50	18	1963	20.00	--	U	125SNLB	--	--	2645
138-100-03ABB	SHYPKOSKI, WILLIAM	520	470	--	4	1963	310.00	01/18/1974	S,H	125TRVL	1600	14.5	2710
138-100-06CAA	BARNHART, RALPH	--	160	--	4	01/18/1974	17.00	--	S	125SNLB	7000	7.5	--
138-100-07AAA1	NDSWC 4921	1100	980	960	2	01/01/1970	141.70	01/13/1977	U	125LMCK	2250	13.0	2610
138-100-07AAA2	NDSWC 4921A	240	240	234	1.25	07/08/1976	176.22	11/16/1977	U	125TRVL	2080	10.0	2610
138-100-10CC	KEVIN-FEDERAL, 1	12272	--	--	--	07/18/1977	--	--	--	--	--	--	2801
138-100-28AAB	PAASCH, 1	9300	--	--	--	02/04/1965	--	--	--	--	1500	--	2724
138-100-28ADD	FRITZ, JAMES	--	310	--	4	01/22/1971	--	--	S,H	125SNLB	--	17.0	--
138-100-31DA	USA BLAYLOCK, 1	9300	--	--	--	01/01/1960	--	--	--	--	--	--	2852
138-100-34DD	SCHWARTZ, 1	9410	--	--	--	11/19/1971	--	--	--	--	--	--	2818
138-101-11DAB	USFS	105	105	--	--	06/12/1955	--	--	--	--	8000	10.5	--
138-101-24AB	FEDERAL, 1-24	9210	--	--	4	06/02/1963	--	--	S	125TRVL	--	--	2661
139-096-01BDB	ENCO	687	615	--	--	12/05/1964	--	--	--	--	--	--	2420
					4	1968	280.00	--	C	125TGRV	--		

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
139-096-02CC	KALISCH, J.	--	140	--	5	--	--	--	--	125SNLB	--	--	2450
139-096-02DAA	16-748, NDSWC	--	231	--	--	1962	--	--	U	BEDROCK	--	--	2440
139-096-03B 1	DICKINSON	--	202	--	6	--	--	--	U	125SNLB	1400	--	2430
139-096-03B 2	DICKINSON	--	185	--	8	--	--	--	U	125SNLB	1370	--	2430
139-096-03BBC1	DICKINSON	--	196	--	10	--	--	--	U	125SNLB	--	--	2437
139-096-03BBC2	DICKINSON	--	182	--	8	1950	123.00	04/ /1944	P	125SNLB	--	--	2442
139-096-03BBC3	DICKINSON	--	191	--	8	--	128.00	04/ /1944	P	125SNLB	--	--	2441
139-096-03BBD1	DICKINSON	--	191	--	12	1930	128.00	04/ /1944	U	125SNLB	--	--	2433
139-096-03BBD2	DICKINSON	--	170	--	8	--	106.00	04/ /1944	U	125SNLB	--	--	2430
139-096-03BCB	DICKINSON	--	160	130	8	--	97.00	04/ /1944	P	125SNLB	--	--	2455
139-096-03BDD	OTT, J.	--	190	115	4	1966	52.00	08/ /1958	U	125SNLB	--	--	2440
139-096-03CCC	N.P. RWY	--	1793	--	--	1897	--	--	H	125SNLB	--	--	2414
139-096-03CDA	CMY., CLOVERDALE	200	95	80	4	1965	--	--	U	BEDROCK	--	--	2420
139-096-03DC	CLARKE, G.	--	40	--	24	--	--	--	N	125SNLB	--	--	2415
139-096-04ACA	DICKINSON	--	154	--	12	1937	42.00	--	--	111ALVM	--	--	2441
139-096-04ACB1	DICKINSON	--	135	--	12	1939	--	--	P	125SNLB	2260	--	--
139-096-04ACB2	DICKINSON	--	140	--	12	1939	91.00	04/ /1944	P	125SNLB	--	--	2341
139-096-04CA	MEDUNA, V.	--	60	--	18	--	48.00	05/ /1944	P	125SNLB	--	--	2445
139-096-04DCA	ICE, DICKINSON	--	130	--	--	1916	51.00	05/ /1944	P	125SNLB	--	--	--
139-096-05DCB	10-748, NDSWC	--	147	--	--	1962	--	--	--	125SNLB	1460	--	2417
139-096-06CDD	SHJEFLO, A.	--	87	--	12	--	--	--	U	125SNLB	--	--	2460
139-096-07ADA	DICKINSON, CITY OF	1962	1962	1715	5	07/03/1981	--	--	U	BEDROCK	--	--	--
139-096-08AC	N.P. RWY	--	16	--	--	1962	32.00	--	H,S	125SNLB	--	--	2475
139-096-08ACB	9-748, NDSWC	--	84	--	--	1945	143.00	07/20/1981	U	211FXHL	2120	--	--
139-096-08BCB	USBR	--	32	--	--	--	--	--	H	--	--	--	--
139-096-08BCD	USBR	--	62	--	--	1945	--	--	U	BEDROCK	--	--	2420
139-096-08BD	SWETT, R.	--	20	--	24	--	18.00	11/ /1945	U	125SNLB	--	--	2419
139-096-08CAB	USBR	--	52	--	--	1946	--	--	--	--	--	--	--
139-096-08CBA	USBR	--	68	--	--	1945	4.00	11/ /1945	U	125SNLB	--	--	2392
139-096-08CDD	KESTING, W.	--	131	--	5	--	--	--	H	111ALVM	--	--	2408
139-096-08DBB1	FITZLOFF, S.	--	20	--	24	--	0.00	01/ /1946	U	125SNLB	--	--	2389
139-096-08DBB2	HALSTAD, D.	--	67	--	4	1965	5.00	12/ /1945	U	125SNLB	--	--	2400
139-096-08DBD	WOLFE, E.	--	115	--	4	1965	--	--	H	125SNLB	--	--	2450
139-096-08DCA	GAYDA, A.	--	34	--	24	--	--	--	H	111ALVM	--	--	2403
139-096-08DDC	8-748, NDSWC	--	357	--	--	1962	20.00	--	H	125SNLB	--	--	2400
139-096-09BA	POLANSKI, C.	--	--	--	--	--	--	--	H	125SNLB	--	--	2400
139-096-09BBB	7-748, NDSWC	--	189	--	--	1962	--	--	H	111ALVM	--	--	2398
139-096-09BBD	OSBORNE, L.	630	620	620	4	1965	--	--	U	125SNLB	--	--	2395
139-096-09DA	HUTZENBILER, C.	--	30	--	18	--	0.00	--	H,S	111ALVM	--	--	--
139-096-10BAC	BADINGER, F.	--	57	--	4	1965	--	--	U	BEDROCK	--	--	2428
							--	--	C	125TGRV	1710	13.3	2410
							15.00	--	H	111ALVM	--	--	--
							--	--	H	125SNLB	--	--	2380

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139-096-10BAD	FICEK, L.	--	55	--	4		12.00	--	H	125SNLB	--	--	2380
139-096-10DDB	KRANK, J.	--	45	--	24	1965	25.00	09/ /1946	U	125SNLB	--	--	2465
139-096-11CBB1	CITY PKG., QUEEN	--	70	--	3	--	--	--	H	111ALVM	--	--	2387
139-096-11CBB2	CITY PKG., QUEEN	--	--	--	48	--	--	--	N	111ALVM	--	--	--
139-096-11CCA	BRAUN, F.	--	40	--	18	--	--	--	H	111ALVM	--	--	--
139-096-12BBB	STRUCK, H.	--	52	--	24	1946	50.00	12/ /1967	U	125SNLB	4150	--	2410
139-096-14ABA	JOHNSON, W.	--	81	--	12	--	68.00	10/ /1966	U	125SNLB	--	--	2432
139-096-14BBA	GRESS, G.	--	--	--	24	--	47.00	09/ /1946	S	125SNLB	--	--	2415
139-096-15DBB	MEYER, P&R	--	--	--	--	--	--	--	H	125SNLB	--	--	--
139-096-16AAA	PRIVRATSKY, P.	--	--	--	--	--	--	--	--	125SNLB	--	--	--
139-096-16BBB	DICKINSON	--	30	--	18	--	--	--	U	125SNLB	--	--	2450
139-096-16DDD1	CH.FRN., STEFFES	--	120	--	4	--	30.00	--	H	125SNLB	--	--	2476
139-096-16DDD2	3695, NDSWC	--	400	--	--	--	--	--	U	BEDROCK	--	--	2485
139-096-17AD	KESTING, A.	--	--	--	48	1969	--	--	H	125SNLB	--	--	--
139-096-17CDD	ZASTOUPIL, J.	--	91	--	4	--	36.00	--	H	125SNLB	--	--	2470
139-096-17DDD	MEYER, F.	--	95	--	6	1957	75.00	--	H,S	125SNLB	--	--	2483
139-096-19ADA	USBR	--	16	--	--	1957	16.00	03/ /1957	U	BEDROCK	--	--	2478
139-096-19DDA	PRIVRATSKY, A.	--	120	--	6	--	77.00	--	H,S	125SNLB	--	--	2497
139-096-20ADB	USBR	--	25	--	--	1957	25.00	--	U	BEDROCK	--	--	2490
139-096-20ADD	HANDL, S.	--	60	--	--	--	50.00	--	H,S	125SNLB	--	--	--
139-096-21BCB	USBR	--	24	--	--	1957	24.00	--	U	BEDROCK	--	--	2516
139-096-22BCC1	USBR	--	25	0	--	1957	25.00	--	U	BEDROCK	--	--	2452
139-096-22BCC2	WOSPKA, A.	220	101	--	4	--	70.00	--	H,S	125SNLB	--	--	2452
139-096-23BCC	3696, NDSWC	--	194	188	1	1969	81.00	06/ /1969	U	125SNLB	1780	10.5	2485
139-096-25CBB	FISHER, C.		50	--	--	--	--	--	U	125SNLB	--	--	2515
139-096-26DAA1	SCHMIDT, N.	--	140	--	4	--	100.00	--	H	125SNLB	--	--	2515
139-096-26DAA2	SCHMIDT, N.	--	182	--	4	1963	60.00	--	H	125SNLB	--	--	2518
139-096-26DAD	SCHMIDT, N.	--	50	--	18	--	30.00	--	S	125SNLB	--	--	2510
139-096-26DBC1	FRENZEL, J.	--	140	--	6	--	90.00	--	H	125SNLB	--	--	2643
139-096-26DBC2	FRENZEL, J.	--	40	--	18	--	30.00	--	S	124GVSB	--	--	2643
139-096-27BCD	KRANK, L.	--	130	--	6	--	110.00	--	H,S	125SNLB	--	--	2513
139-096-28CBD	KOSTELECKY, L.	--	135	--	4	1930	107.00	--	H,S	125SNLB	--	--	2523
139-096-28DAC	KRANK, J.	--	160	--	5	--	130.00	--	H,S	125SNLB	--	--	2542
139-096-28DDD	18-748, NDSWC	--	210	0	--	1962	--	--	U	BEDROCK	--	--	2560
139-096-30CDA1	MONDL, A.	--	89	--	18	--	--	--	U	124GVSB	--	--	2542
139-096-30CDA2	MONDL, A.	--	140	--	6	--	--	--				--	2543
139-096-32BBA	KOSTELECKY, R.	--	146	--	4	--	129.00	--	H,S	125SNLB	--	--	2560
139-096-32DCA	KOSTELECKY, A.	--	130	--	4	--	100.00	--	H,S	125SNLB	--	--	2553
139-096-32DCD	PRAUS, ERVIN	220	220	200	4	--	102.00	05/07/1972	H	--	1210	13.0	--
139-096-33ABA	KOSTELECKY, E.	--	140	--	4	05/07/1972	--	--	H,S	125SNLB	--	--	2553
						--							

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139-096-34ACD	STOLZ, G.	--	42	--	18	--	28.00	--	S	125SNLB	--	--	2536
139-096-34DBA1	SCHMIDT, W.	--	65	--	24	1900	35.00	--	H,S	125SNLB	--	--	2518
139-096-34DBA2	SCHMIDT, W.	--	40	0	48	--	30.00	--	U	125SNLB	--	--	2518
139-097-01DDA	KUBISCHTA, J.	--	50	--	30	--	34.00	09/ /1946	H,S	125SNLB	890	--	2473
139-097-01DDD	17-748, NDSWC	--	231	--	5	1962	--	--	U	BEDROCK	--	--	2456
139-097-02CAD	STEFFAN, C.	--	60	--	18	--	--	--	H,S	125SNLB	--	--	--
139-097-02DBB	JAEGER, M.	--	48	--	24	1924	--	--	H,S	--	--	--	--
139-097-03AAD	PAZOUREK, R.	--	135	--	5	--	22.00	--	H,S	125SNLB	--	--	--
139-097-04DAA	BURVICK, MILO	245	243	200	4	06/25/1976	20.00	06/25/1976	H	--	1150	13.5	--
139-097-04DCC	JUNOT, GARY	154	150	120	5	02/11/1976	138.00	02/11/1976	H	--	1030	13.5	--
139-097-05DDB1	KOSTELECKY, E.	--	82	82	18	--	116.00	--	--	--	--	--	--
139-097-05DDB2	KOSTELECKY, E.	--	120	120	6	1964	52.00	--	S	125SNLB	--	--	--
139-097-06BCB	MULARCHEK, P.	--	24	24	24	1945	40.00	--	H	125SNLB	--	--	--
139-097-07ABD	KOSTELECKY, LARRY	149	145	100	5	10/06/1976	15.00	--	H	125SNLB	--	--	--
139-097-07CCC	USGS	38	37	25	2	07/06/1976	13.00	10/06/1976	S	--	--	--	--
139-097-08BCD1	KOSTELECKY, I.	--	55	55	18	1946	14.19	11/13/1981	U	125SBLG	2600	9.0	2480
139-097-08BCD2	KOSTELECKY, I.	--	52	52	4	1959	--	--	H	125SNLB	--	--	--
139-097-08BCD3	KOSTELECKY, I.	--	75	75	4	1961	30.00	--	S	125SNLB	--	--	2495
139-097-10ACD	RIDL, W.	--	60	--	18	--	0.00	--	S	125SNLB	--	--	--
139-097-10BAB	HELLMAN, M.	--	52	--	24	--	35.00	--	S	125SNLB	--	--	--
139-097-10BBB	STEFFAN, ALVIN	165	165	125	4.50	12/30/1980	25.00	--	H,S	125SNLB	--	--	--
139-097-10BBD	RIDL, E.	--	50	--	18	--	23.00	--	H,S	125SNLB	--	--	--
139-097-10DDD	RIDL, E.	--	40	--	36	--	90.00	12/30/1980	H	--	1710	12.0	--
139-097-12ADD	PRIVATSKY, W.	--	40	--	24	--	25.00	--	S	125SNLB	--	--	--
139-097-13BB	U.S.A.	--	34	--	24	1921	35.00	09/ /1946	S	125SNLB	2320	--	2435
139-097-14DAB	U.S.A.	--	30	--	5	--	26.00	09/ /1946	S	125SNLB	--	--	2445
139-097-15AD	PRIVATSKY, W.	--	40	--	24	--	30.00	--	U	125SNLB	741	--	--
139-097-17DAA1	DVORAK, H.	--	260	260	4	--	24.00	09/ /1946	U	111ALVM	2950	--	2420
139-097-17DAA2	DVORAK, H.	--	115	115	4	1963	25.00	09/ /1946	H,S	111ALVM	--	--	2430
139-097-17DAA3	KOSTELECKY, BENEDICT	705	700	654	4	12/31/1975	20.00	--	H	125SNLB	--	--	2490
139-097-18BBB	ADAMSKI, J.	--	65	65	18	--	0.00	--	S	125SNLB	--	--	2490
139-097-19BBB	ADAMSKI, J.	--	19	18	18	--	230.00	12/31/1975	H	--	1530	13.0	--
139-097-20BC	1,HUNT,KUDRNA	--	9523	252	9	1954	--	--	H,S	125SNLB	--	--	2570
139-097-20CAC	UNION KUDRNA	--	12180	1090	10	1957	13.00	01/ /1967	U	125SNLB	--	--	2577
139-097-20CDC1	KUDRNA, V.	--	104	104	6	1928	--	--	U	--	--	--	2547
139-097-20CDC2	KUDRNA, V.	--	16	0	72	--	--	--	U	--	--	--	--
139-097-20DAD	3694, NDSWC	--	400	--	--	1969	44.00	--	H,S	125SNLB	--	--	--
139-097-21DDD	23-748, NDSWC	--	315	0	5	1962	--	--	H	125SNLB	--	--	2504
139-097-22AAA1	STRANSKY, J. & E.	--	65	--	24	1928	8.00	--	U	BEDROCK	--	--	2509
139-097-22AAA2	STRANSKY, J. & E.	--	98	83	4	1963	--	--	U	BEDROCK	--	--	2468
							--	--	U	125SNLB	--	--	2468
							61.00	--	H	125SNLB	1070	--	--
							58.00	--					

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139-097-22BBD	KREMLICK, A.	--	24	--	36	1908	22.00	09/ /1946	H,S	125SNLB	--	--	2490
139-097-22CAC1	WEILER, G.	--	12	--	40	--	10.00	--	S	125SNLB	--	--	--
139-097-22CAC2	WEILER, G.	--	15	--	8	--	10.00	--	H	125SNLB	--	--	--
139-097-23BBB	KELLER, A.	--	63	--	18	--	--	--	H	125SNLB	--	10.0	--
139-097-23BCC2	KLEIN, F.	--	18	--	48	--	0.00	--	S	125SNLB	--	--	--
139-097-23CDD	ZASTOUPIL, L.	--	60	--	18	--	--	--	H,S	125SNLB	--	--	--
139-097-24ADB	USBR	--	24	0	--	1957	5.00	08/ /1957	U	125SNLB	--	--	--
139-097-24BCB	USBR	--	16	--	12	1957	16.00	--	U	BEDROCK	--	--	2423
139-097-24CCC	4-748, NDSWC	--	336	--	5	1962	--	--	U	BEDROCK	--	--	2449
139-097-26DDD	ZASTOUPIL, J.	--	18	--	36	--	15.00	--	H,S	124GVSB	--	--	2475
139-097-27AAA	LUCKET, ROBERT	95	95	--	24	10/03/1972	76.00	10/03/1978	H	--	930	13.5	2478
139-097-27ADD	KUNTZ, LEO	76	76	--	18	05/08/1972	--	--	S	--	--	--	--
139-097-28AAA1	PRAUS, T.	--	28	28	18	--	23.00	--	H	125SNLB	--	--	--
139-097-28AAA2	PRAUS, T.	--	20	20	18	--	5.00	--	S	125SNLB	--	--	--
139-097-28DAA	PRAUS, T.	--	65	65	6	1961	--	--	S	125SNLB	--	--	--
139-097-29AAD	PRIVATSKY, RODGER	240	210	--	4	06/24/1973	137.00	06/24/1973	S	--	--	--	--
139-097-30AAB1	PERZINSKI, J.	--	35	35	18	1935	--	--	S	125SNLB	--	--	--
139-097-30AAB2	PERZINSKI, J.	--	45	45	18	1935	--	--	H,S	125SNLB	--	--	--
139-097-30CAD	KUDRNA, A.	--	200	200	6	1955	--	--	H,S	125SNLB	--	--	--
139-097-33DDD	22-748, NDSWC	--	360	0	5	1962	--	--	U	BEDROCK	--	--	2675
139-097-34ACA1	CLARYS, J.	--	15	--	24	--	13.00	--	H	124GLDV	--	--	2529
139-097-34ACA2	CLARYS, J.	--	18	--	12	--	15.00	--	H	124GLDV	--	--	--
139-097-34ADC	CLARYS, J.	--	34	--	18	--	22.00	--	S	124GVSB	--	12.7	--
139-098-02CDB	STRIETZ, A.	--	85	85	12	1935	50.00	--	H,S	125SNLB	--	--	--
139-098-02DDD	HERAUF, P.	--	60	60	4	--	20.00	--	H,S	125SNLB	--	10.5	2550
139-098-03AD	JORDAN, T. N.P.1	--	8214	0	--	1965	--	--	U	--	--	--	2490
139-098-03CDD	WAGNER, JERRY	472	462	442	4	09/28/1981	203.00	09/28/1981	H	--	--	--	2538
139-098-03DAA	N.P.DX360-27	--	125	0	--	1962	--	--	U	BEDROCK	1610	15.5	--
139-098-04ADD	WAGNER, GORDON	420	395	365	4	03/10/1980	114.00	03/10/1980	H	--	--	--	2545
139-098-05DD	CARDINAL,16-SNP	8176	8167	8028	6	1968	--	--	U	--	1640	20.0	--
139-098-06ACC	ZARAK, W.	--	50	--	4	1962	30.00	--	S	125SNLB	--	--	2513
139-098-06ADD	ZARAK, W.	--	25	25	24	1947	15.00	--	H	125SNLB	--	--	--
139-098-06BCC	ZARAK, W.	--	50	50	4	1964	20.00	--	S	125SNLB	--	--	2522
139-098-06CDA	ZARAK, G.	--	89	70	4	1965	29.00	--	H	125SNLB	--	--	2510
139-098-07AAD	SANDERS, T.	--	16	16	24	1912	10.00	--	H,S	--	--	--	2500
139-098-08AAA1	ZARAK, W.	--	135	135	4	1962	20.00	--	H	125SNLB	--	--	2515
139-098-08AAA2	ZARAK JR, WILLIAM	130	130	115	4	07/09/1979	25.00	07/09/1979	H	--	1820	--	2525
139-098-08ADC	ZARAK, W.	--	110	90	4	1967	--	--	S	125SNLB	--	12.0	2520
139-098-08ADD	ZARAK, W.	--	36	--	12	--	28.00	08/ /1966	U	125SNLB	--	--	--
139-098-09ABB1	MEDUNA, L.	--	70	70	6	--	--	--	H	125SNLB	--	10.5	2520
												--	2505

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
139-098-09ABB2	MEDUNA, L.	--	60	60	6	--	--	--	S	125SNLB	--	--	2495
139-098-10ADC1	MEDUNA, L.	--	60	60	18	1956	--	--	H	125SNLB	--	--	2512
139-098-10ADC2	MEDUNA, L.	--	56	56	18	1957	--	--	S	125SNLB	--	9.3	2500
139-098-10AB1	WAGNER, L.	--	70	70	18	1949	--	--	S	125SNLB	--	9.3	2520
139-098-10AB2	WAGNER, L.	--	150	150	6	1956	10.00	--	H,S	125SNLB	--	--	2520
139-098-10DBA	MEDUNA, L.	--	32	32	18	1960	--	--	U	125SNLB	--	--	2520
139-098-10DD	MEDUNA, SCHELL	--	9200	--	--	1967	--	--	U	--	--	--	2502
139-098-12CAC	SCHOOL, SU.HEART	--	72	72	18	--	38.00	--	T	125SNLB	--	--	--
139-098-12CCA1	HOFFMAN, G.	--	57	--	16	1931	22.00	--	H	125SNLB	--	--	--
139-098-12CCA2	KASSIAN, J.	--	65	65	12	--	56.00	--	H	125SNLB	--	12.1	--
139-098-12CCA3	KUNTZ, P.	--	49	49	18	1952	19.00	--	H	125SNLB	--	--	--
139-098-12CCA4	PACHL, A.	--	49	49	6	1961	--	--	H	125SNLB	--	--	--
139-098-12CDA1	--	--	60	60	4	1949	24.00	--	H	125SNLB	--	--	--
139-098-12CDA2	--	--	60	60	6	1962	--	--	H	125SNLB	--	13.8	--
139-098-12CDB1	SCHWARTZNBURGER KUDRNA, C.	--	60	--	6	--	30.00	--	H	125SNLB	--	--	--
139-098-12CDB2	BINSTOCK, L.	--	53	53	18	--	18.00	--	H	125SNLB	--	--	--
139-098-12CDB3	RAMBOUSEK, H.	--	50	50	18	1955	17.00	--	H	125SNLB	--	--	--
139-098-12CDB4	KUDRNA, D.	--	50	50	5	1960	25.00	--	H	125SNLB	--	--	2490
139-098-12CDB5	HECKEK, G.	--	60	60	4	1963	35.00	--	H	125SNLB	--	--	--
139-098-12CDC	ADAMSKI, M.	--	65	65	8	--	--	--	H	125SNLB	--	--	--
139-098-12CDD	UNION, FARMERS	--	50	50	5	1963	20.00	--	C	125SNLB	--	--	2490
139-098-12DCC1	N.P.RWY	424	0	--	--	1905	--	--	U	--	--	--	2488
139-098-12DCC2	N.P.RWY	40	0	0	34	1929	--	--	U	125SNLB	--	--	2488
139-098-12DCC3	N.P.RWY	--	66	62	6	1955	20.00	--	H	125SNLB	2080	6.1	--
139-098-13BAA1	WENDEL, W.	--	65	65	4	1953	22.00	--	H	125SNLB	--	--	--
139-098-13BAA2	METZ, J.	--	50	50	6	1963	0.00	--	H	125SNLB	--	--	2480
139-098-13BAA3	ADAMSKI, L.	--	54	49	4	1965	18.00	--	H	125SNLB	--	--	--
139-098-13BAB1	HEIDT, E.	--	60	60	4	--	--	--	H	125SNLB	--	--	--
139-098-13BAB2	CHURCH, CATHOLIC	--	100	6	6	1948	30.00	--	H	125SNLB	--	--	--
139-098-13BAB3	PRAUS, J.	--	60	60	4	1960	30.00	--	H	125SNLB	--	--	--
139-098-13BBB1	RIDL, S.	--	70	--	6	1952	30.00	--	H	125SNLB	--	--	--
139-098-13BBB2	RIDL, S.	--	65	--	6	1964	30.00	--	S	125SNLB	--	11.0	--
139-098-13CCC	PERZINSKI, T.	--	45	45	4	1964	--	--	H,S	125SNLB	--	--	--
139-098-13DDD	3540, NDSWC	900	431	428	1	1967	65.00	12/ /1967	U	125T&RV	1520	11.0	2517
139-098-14BBB	PAVEL, J.	--	--	--	--	--	--	--	U	125SNLB	--	11.6	2510
139-098-15BBB	USGS	67	53	47	2	06/09/1976	42.90	11/13/1981	U	125SBLG	6400	8.0	2515
139-098-15DDD	PERDAEMS, J.	--	76	76	6	1960	54.00	--	H	125SNLB	--	--	2510
139-098-16CDC	KUVLEN	--	128	128	6	1964	25.00	--	S	125SNLB	--	--	2560
139-098-17CCD	USGS	200	164	158	2	05/20/1976	102.26	11/13/1981	U	125SNLB	2300	12.0	2615
139-098-18BCC	WOLF, A.	--	100	100	18	1952	--	--	H,S	125SNLB	--	--	2627

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
139-098-19AAA	MDU	605	602	557	2	03/17/1981	300.00	03/17/1981	H	--	1610	15.0	--
139-098-19CBB1	3692, NDSWC	--	320	--	--	1969	--	--	U	BEDROCK	--	--	2625
139-098-19CBB2	3692A, NDSWC	--	80	74	1	1969	70.00	05/ /1969	U	125SNLB	--	--	2625
139-098-19CDD	ANDERSON, L.	--	65	65	18	1911	50.00	--	U	125SNLB	--	--	2610
139-098-19DDC	N.P.DX360-19	--	180	0	--	1962	--	--	U	BEDROCK	--	--	2660
139-098-20BBA	N.P.DX360-16	--	201	0	--	1962	--	--	U	BEDROCK	--	--	2620
139-098-21AAA	USGS	76	66	60	2	06/09/1976	50.83	11/13/1981	U	125SBLG	2650	--	2625
139-098-21AAD	USBR	--	24	0	--	1957	24.00	03/ /1957	U	BEDROCK	--	18.0	2540
139-098-21ADD	N.P.DX360-17	--	160	0	--	1962	--	--	U	BEDROCK	--	--	2562
139-098-21BAB	KUYLEN, J.	--	96	--	6	1952	30.00	--	H	125SNLB	--	--	2562
139-098-21CCD	N.P.DX360-18	--	140	0	--	1962	--	--	U	BEDROCK	--	--	2585
139-098-22AAD	USBR	--	56	0	--	1957	18.00	03/ /1957	U	125SNLB	--	--	2496
139-098-22BBB1	PERDAEMS, J.	--	72	72	18	1931	32.00	--	S	125SNLB	--	--	2502
139-098-22BBB2	PERDAEMS, J.	--	86	86	18	1936	40.00	--	H	125SNLB	--	--	2508
139-098-22DDA1	PERDAEMS, J.	--	70	70	6	1964	20.00	--	H	125SNLB	--	--	2500
139-098-22DDA2	PERDAEMS, J.	--	48	48	4	1965	--	--	U	125SNLB	--	--	2504
139-098-22DDA3	PERDAEMS, JERRY	90	84	--	5	04/22/1976	49.00	04/22/1976	H	--	--	22.0	--
139-098-23BBC	PERDAEMS, J.	--	28	28	18	1956	8.00	--	S	111ALVM	--	--	2500
139-098-24BCB	N.P.DX360-25	--	140	0	--	1962	--	--	U	BEDROCK	--	--	2570
139-098-24DDB	KUDRNA, L.	--	120	120	6	1963	--	--	H,S	125SNLB	--	--	--
139-098-25CDB	EBERTS, E.	--	11	0	18	--	8.00	08/ /1966	U	125SNLB	--	--	2590
139-098-26BBC	WAGNER, P.	--	92	92	4	1964	--	--	H,S	125SNLB	--	--	2568
139-098-27BBB	USGS	72	59	53	2	06/09/1976	42.08	11/13/1981	U	125SBLG	2900	--	2535
139-098-27BCD1	KUYLEN, A.	--	27	--	18	1938	15.00	--	H	111ALVM	--	22.0	2580
139-098-27BCD2	KUYLEN, A.	--	180	--	6	1955	80.00	--	S	125SNLB	--	--	2585
139-098-29CCC1	KOOREN, R.	--	36	0	18	1946	28.00	--	H	125SNLB	--	9.3	2552
139-098-29CCC2	KOOREN, R.	--	36	0	18	1946	14.00	--	S	125SNLB	--	9.3	2550
139-098-30BAB	LUND, C.	--	100	--	18	1915	50.00	--	U	125SNLB	--	--	2610
139-098-30BCC	BINSTOCK, V.	--	64	0	18	--	44.00	--	H,S	125SNLB	--	--	2590
139-098-31BBB	N.P.DX360-20	--	80	0	--	1962	--	--	U	BEDROCK	--	--	2600
139-098-31CCC	N.P.DX360-33	--	130	0	--	1962	--	--	U	BEDROCK	--	--	2578
139-098-32AAA1	EMMIL, P.	--	40	23	18	1941	18.00	--	S	125SNLB	--	--	2560
139-098-32AAA2	EMMIL, P.	--	40	--	6	1958	13.00	--	H	125SNLB	--	--	2558
139-098-33AAD	N.P. DX360-21	--	250	--	--	1962	--	--	U	BEDROCK	--	--	2640
139-098-33CCB	N.P. DX360-26	--	170	--	--	1962	--	--	U	BEDROCK	--	--	2610
139-098-35ABA	N.P. DX360-24	--	160	--	--	1962	--	--	U	BEDROCK	--	--	2580
139-098-35BBC1	BLOOD, J.	--	90	--	18	1945	60.00	--	S	125SNLB	--	--	2555
139-098-35BBC2	BLOOD, J.	--	100	100	4	1949	58.00	--	H,S	125SNLB	--	11.0	2560
139-099-01ADC	HIBL, A.	--	120	120	6	1962	--	--	H,S	125SNLB	--	--	2520
139-099-02BBD	BOLTZ, R.	--	63	63	5	1960	13.00	--	H,S	125SNLB	--	--	2554

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	SPECIFIC CONDUCTANCE (UMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
139-099-03CCB1	NEWTON, R.	--	49	49	18	--	--	--	H	125SNLB	--	--	2558
139-099-03CCB2	NEWTON, R.	--	39	--	16	1960	25.00	--	S	125SNLB	--	9.3	2556
139-099-03DDD	KADRMAS, FRANK	75	51	51	5	09/15/1976	24.00	09/15/1976	S	--	2130	11.0	--
139-099-04BDC	BELFIELD	--	81	--	8	1959	--	--	U	125SNLB	--	--	2575
139-099-04CAC	CARBIDE, UNION	--	75	75	6	1964	--	--	N	125SNLB	--	--	2567
139-099-04CBB	HLEBECHUK, ALBERT	296	261	236	4	02/12/1977	147.00	02/12/1977	H	--	1750	12.0	--
139-099-04CCB	CENEX	60	60	45	6	05/09/1980	31.00	05/09/1980	H	--	6450	10.0	--
139-099-04DBC1	BELFIELD	--	81	--	8	1955	47.00	06/ /1968	U	125SNLB	--	--	2563
139-099-04DBC2	BELFIELD	--	44	--	8	1957	40.00	--	U	125SNLB	--	--	2563
139-099-05ABC	1, BELFIELD	720	680	--	6	1961	280.00	--	P	125TGRV	--	12.0	2575
139-099-05ABD	BELFIELD, CITY OF	1898	1747	1570	8	04/20/1977	185.00	04/20/1977	P	--	--	--	--
139-099-05ADC	2, BELFIELD	695	661	640	6	1962	--	--	P	125TGRV	--	16.6	2575
139-099-06AAD1	HOFFMAN, M.	--	38	--	12	--	14.00	08/ /1966	U	125SNLB	--	--	2625
139-099-06AAD2	HOFFMAN, M.	--	85	--	24	1913	50.00	--	S	125SNLB	--	9.3	--
139-099-06CAD	LOWENSTEIN, J.	--	80	--	12	--	11.00	08/ /1966	U	125SNLB	--	--	2653
139-099-07AAA1	NEWTON, R.	--	112	--	4	1950	60.00	--	H,S	125SNLB	--	--	2655
139-099-07AAA2	NEWTON, RODGER	120	120	110	5	08/20/1979	47.00	08/20/1979	H	125SNLB	3820	10.0	--
139-099-09BBD1	FROELICH, N.	--	50	50	24	1943	14.00	--	S	125SNLB	--	11.0	2600
139-099-09BBD2	FRUELICH, N.	--	100	85	6	1961	14.00	--	H	125SNLB	--	--	2590
139-099-10AAB1	KADRMAS, F.	--	45	45	16	1955	30.00	--	H	125SNLB	--	--	2550
139-099-10AAB2	KADRMAS, F.	--	60	52	16	--	30.00	--	S	125SNLB	--	--	2540
139-099-11AAA	SAVAGEAU, T.	--	38	--	4	--	14.00	--	H,S	125SNLB	--	--	2522
139-099-11BBB1	BUCKMAN, J.	--	30	0	18	1918	24.00	--	U	125SNLB	--	--	2544
139-099-11BBB2	BUCKMAN, J.	--	60	--	4	1949	25.00	--	H,S	125SNLB	--	--	2546
139-099-11BBB3	BUCKMAN, ED	40	40	30	6	10/ /1979	30.00	10/ /1979	U	--	--	--	--
139-099-12BBA	RIDL, J.	--	78	78	4	1965	28.00	--	S	125SNLB	--	10.5	2543
139-099-12BBB	RIDL, J.	--	78	78	4	1951	28.00	--	U	125SNLB	--	--	2543
139-099-14CAA1	RICHARD, W.	--	65	65	18	1908	--	--	S	125SNLB	--	12.1	2555
139-099-14CAA2	RICHARD, W.	--	65	--	18	1948	45.00	--	H	125SNLB	--	--	2558
139-099-15CAC	RICHARD, W.	--	60	60	24	1918	--	--	S	125SNLB	--	--	2570
139-099-15DAB1	RICHARD, W.	--	70	0	24	1926	20.00	--	H,S	125SNLB	--	10.5	2563
139-099-15DAB2	RICHARD, W.	--	80	--	24	1962	20.00	--	S	125SNLB	--	--	2563
139-099-15DAB3	RICHARDS, WALTER	540	--	--	--	04/18/1974	--	--	U	--	--	--	--
139-099-16BB	TENN. GAS	--	9609	--	9	1959	--	--	U	--	--	--	2631
139-099-17CuB	DIETZ, J.	--	38	38	18	1963	--	--	S	125SNLB	--	--	2625
139-099-17DAC1	KESSEL, P.	--	18	18	18	1928	26.00	--	U	125SNLB	--	--	2605
139-099-17DAC2	KESSEL, P.	--	420	--	5	1962	18.00	--	H	125SBTR	--	--	2630
139-099-18CCC1	DULETSKY, C.	--	40	40	18	1916	200.00	--	U	125SNLB	--	--	2632
139-099-18CCC2	DULETSKY, C.	--	20	0	96	1937	--	--	H,S	125SNLB	--	11.6	2630
139-099-18CCC3	DULETSKY, CASMIR	410	390	--	4	01/23/1974	200.00	01/23/1974	H,S	--	1750	14.0	--

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
139-099-20ABD	KOLEDEJCHUK, M.	--	21	0	48	--	11.00	08/ /1966	U	125SNLB	--	9.3	2582
139-099-20BDB1	DIETZ, J.	--	30	0	18	1945	15.00	--	S	125SNLB	--	12.7	2602
139-099-20BDB2	DIETZ, J.	--	29	29	18	1948	14.00	--	H	125SNLB	--	--	2605
139-099-20CBC	USBR	--	24	--	--	1957	24.00	--	U	BEDROCK	--	--	2611
139-099-20DAC	USBR	--	50	0	--	1957	30.00	08/ /1957	U	BEDROCK	--	--	2604
139-099-21CBC	USBR	--	24	0	--	1957	24.00	03/ /1957	U	BEDROCK	--	--	2611
139-099-21CCC	NDSWC 3539	950	361	358	1.25	09/20/1967	192.00	12/19/1967	U	125TGRV	1620	11.0	2620
139-099-21DAD	USBR	--	16	0	--	1957	16.00	03/ /1957	U	BEDROCK	--	--	2702
139-099-23DAD	USBR	--	25	0	--	1957	25.00	--	U	BEDROCK	--	--	2647
139-099-24ABB1	CINDER, E.	--	--	--	--	--	--	--	S	125SBTR	--	11.0	2611
139-099-24ABB2	WOLF, TONY	117	117	102	4	08/15/1972	87.00	08/15/1972	H	--	--	--	--
139-099-24DCC	HANEL, M.	--	65	0	12	--	11.00	09/ /1966	U	125SNLB	--	--	2609
139-099-30DAA	BINSTOCK, V.	--	250	250	4	1956	--	--	H	125SBTR	--	--	2651
139-099-32DDC	BILLMAN, A.	--	--	--	--	--	--	--	M	125SBTR	--	--	2670
139-099-33CCB1	ZASTOUPIL, M.	--	85	0	12	--	75.00	--	S	125SNLB	--	10.0	2683
139-099-33CCB2	ZASTOUPIL, M.	--	85	85	18	1955	75.00	--	H	125SNLB	--	9.3	--
139-099-34AAA	KNOPIK, M.	--	74	0	18	--	40.00	--	H,S	125SNLB	--	--	--
139-099-35ACB1	FROELICH, A.	--	25	0	48	1933	20.00	--	M	125SNLB	--	--	2632
139-099-35ACB2	FROELICH, A.	--	50	50	18	--	25.00	--	S	125SNLB	--	--	2602
139-099-35AC83	FROEHLICH, ANTON	50	50	30	6	1947	24.00	1976	H	--	2000	--	2600
139-100-02AB	KNOPIK-REIS, 1	8384	--	--	--	1976	--	--	--	--	--	15.0	--
139-100-04CD	LOGAN, 1	9455	--	--	--	10/04/1959	--	--	--	--	--	--	2658
139-100-04DD	JOUBERT, 1	9422	--	--	--	10/09/1953	--	--	--	--	--	--	2775
139-100-05DC	AMERADA-NPRR, 1L	--	--	--	--	05/11/1954	--	--	--	--	--	--	2761
139-100-06BB	GAWRYLUK UNIT, 1	--	--	--	--	02/07/1964	--	--	--	--	--	--	2839
139-100-07DB	LOGAN, 1	8310	--	--	--	01/09/1966	--	--	--	--	--	--	2747
139-100-08BB	LOGAN EATON, 1	8369	--	--	--	06/02/1959	--	--	--	--	--	--	2706
139-100-08DB	AMERADA EATON, 1	8433	--	--	--	10/25/1963	--	--	--	--	--	--	2775
139-100-09AB	MAY, 1	13333	--	--	--	11/02/1959	--	--	--	--	--	--	2816
139-100-09DB	MAY, 3	9435	--	--	--	09/14/1953	--	--	--	--	--	--	2761
139-100-10CB	FRANCHUK, 1	9407	--	--	--	04/14/1955	--	--	--	--	--	--	2778
139-100-12AD	DULETSKI, 1	8328	--	--	--	12/17/1953	--	--	--	--	--	--	2747
139-100-13BAA	WALTER, JOSEPH	--	40	--	--	02/12/1967	--	--	--	--	--	1e.0	2665
139-100-14CCC	NDSWC 5145	522	504	492	2	--	298.55	09/22/1977	H,S	125SNLB	3500	--	--
139-100-15CB	SYMINOW, 1A	9356	--	--	--	07/19/1977	--	--	U	125TRVL	--	--	2695
139-100-16AB	MATTESON, 2	9393	--	--	--	11/24/1954	--	--	--	--	--	--	2732
139-100-16ABB	FRYBURG SCHOOL	--	480	--	--	03/05/1955	--	--	--	--	--	--	2742
139-100-20ABB	HURD, FLOYD	--	48	--	7	01/01/1954	--	--	--	--	--	--	2750
139-100-22BBA	SYMINOW, 1	9476	--	--	18	01/01/1972	280.00	--	T	125TRVL	2000	23.0	2740
					--	03/15/1965	32.00	--	H,S	125SNLB	3050	8.0	2755
							--	--	--	--	--	--	

173 (OVERSIZE FIGURE)

TABLE 8.-- Logs of wells and test holes in the Dickinson coal area.

135-099-13DDB
(Log modified from Kruger Drilling Co.)
Date drilled: 10/ /76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay	60	60
Clay, sandy	10	70
Clay	20	90
Clay, sandy	20	110
Sandy	30	140

135-100-12AAD
(Log modified from Kruger Drilling Co.)
Date drilled: 10/12/76

Clay	80	80
Clay, sandy	20	100
Clay	40	140
Sandy	20	160

136-098-01BAA
NDSWC 4950
Date drilled: 08/11/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, moderate-yellowish-brown to light-brownish-gray, silty, slightly sandy, cohesive, brittle, oxidized	15	15
Sand, rusty-brown, fine, rounded, well-sorted, slightly clayey, oxidized	7	22
Clay, medium-light-gray to olive-gray, very silty, brittle; sandy in various places	32	54
Lignite, black, hard, brittle; dry	6	60
Clay, medium-gray, silty, brittle, slightly carbonaceous, bentonitic; sandy at 75 to 80 feet	36	96
Lignite, black to reddish-black, hard, brittle; dry	8	104
Sand, medium-light-gray, very fine, rounded, silty	10	114
Clay, medium-light-gray to bluish-gray, very silty	46	160
Sand, very fine, rounded	62	222
Clay, medium-light-gray to green, very silty-	25	247
Lignite, black, hard, brittle	3	250
Clay, medium-gray to brownish-gray, silty, cohesive, brittle, carbonaceous	6	256
Lignite, black, hard, brittle	6	262
Clay, medium-dark-gray to brownish-gray, silty, cohesive, brittle, carbonaceous	18	280

136-098-02CDC1
(Log modified from Kruger Drilling Co.)
Date drilled: 03/18/75

Clay	83	83
Coal	3	86
Clay	54	140
Clay, sandy	10	150
Sand	30	180

136-098-02CDC2
(Log modified from Gregory Drilling Co.)
Date drilled: 01/08/81

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, brown	6	6
Shale, brown, sandy	10	16
Shale, gray	4	20
Coal	1	21
Shale, brown	2	23
Shale, gray	2	25
Shale, gray, sandy	9	34
Sandstone	1	35
Shale, gray	14	49
Coal; with layers of brown shale	3	52
Shale, gray	36	88
Shale, brown	19	107
Coal	8	115
Shale, gray	11	126
Sand, blue and gray	34	160

136-098-05AAA
NDSWC 4951
Date drilled: 08/11/76

Clay, medium-light-gray to medium-gray, very silty, brittle	5	5
Clay, moderate-yellowish-brown to reddish-brown, silty, moderately cohesive, oxidized	7	12
Sand, yellowish-brown, clayey, very fine, rounded	4	16
Clay, yellowish-brown to medium-light-gray, silty, cohesive, brittle, oxidized to 35 feet	26	42
Lignite, black to reddish-black; dry	3	45
Clay, medium-gray to medium-dark-gray, very silty, cohesive, brittle	35	80
Clay, medium-gray to chocolate-brown, very silty, cohesive, brittle, carbonaceous; lignite at 82 feet	25	105
Lignite, black, hard, brittle; dry	8	113
Clay, medium-gray to dark-gray, silty, brittle, slightly carbonaceous	43	156
Sand, medium-gray to greenish-gray, very fine to fine, subrounded to rounded, well-sorted	47	203
Lignite, black, hard, brittle	4	207
Clay, green to medium-gray, silty, cohesive, brittle	13	220

136-098-15AAA
NDSWC 4949
Date drilled: 08/10/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, dark-reddish-brown, very silty, slightly sandy, oxidized	5	5
Clay, yellowish-brown to medium-gray, silty, cohesive, brittle	5	10
Clay, greenish-yellow, silty, slightly sandy, cohesive, brittle	7	17
Silt, light-brown to medium-brown, slightly sandy; sandstone at 31 to 33 feet	17	34
Clay, medium-dark-gray, very silty, moderately cohesive, brittle	34	68
Lignite, black, hard, brittle; making water	8	76
Clay, medium-light-gray to medium-gray, silty, slightly sandy, cohesive, brittle, carbonaceous, bentonitic after 130 feet	70	146
Lignite, black, hard, brittle; saturated, clay parting at 151 to 155 feet	11	157
Clay, medium-gray to greenish-gray, silty, sandy, cohesive, brittle; sandstone at 167 to 170 feet	23	180

136-098-15CBB
NDSWC 4948
Date drilled: 08/10/76

Clay, moderate-brown, silty, sandy, oxidized	15	15
Clay, medium-gray, silty, sandy; moist	6	21
Lignite, black to reddish-black, hard, brittle; dry	3	24
Sand, medium-light-gray to medium-gray, very fine, rounded, clayey; dry, lignite at 57 feet making water	34	58
Clay, medium-gray to medium-dark-gray, silty, cohesive, brittle, sandstone at 65 to 67 feet	20	78
Sand, medium-gray, very fine to fine, rounded, well-sorted; saturated	22	100
Lignite, black, hard, brittle; saturated	5	105
Clay, medium-gray, very silty, brittle; sandstone at 114 to 116 feet	11	116
Sand, medium-gray to greenish-gray, very fine to fine, rounded, well-sorted	4	120

136-098-27BCC
(Log modified from Kruger Drilling Co.)
Date drilled: 06/22/75

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay	80	80
Clay, sandy	20	100
Sand, clayey	20	120
Clay, sandy	20	140
Sand	15	155

136-099-08CCA
(Log modified from Kruger Drilling Co.)
Date drilled: 10/28/76

Clay	40	40
Clay, sandy	10	50
Sandy	15	65

136-099-15ADD
NDSWC 4952
Date drilled: 08/12/76

Clay, moderate-yellowish-brown to reddish-brown, silty, slightly sandy, cohesive, oxidized	26	26
Clay, medium-light-gray to medium-dark-gray, silty, moderately cohesive, brittle, slightly bentonitic	7	33
Lignite, black to reddish-black, hard, brittle; dry	3	36
Clay, medium-light-gray to medium-gray, silty, moderately cohesive, brittle, slightly bentonitic	8	44
Lignite, black, hard, brittle; making water	2	46
Clay, medium-gray to chocolate-brown, silty, moderately cohesive, brittle, carbonaceous; sandy from 65 to 70 feet, lignite at 76 feet	36	82
Lignite, black, hard, brittle, saturated	6	88
Clay, medium-gray to medium-dark-gray, very silty, brittle, slightly carbonaceous	24	112
Clay, medium-gray to brownish-gray, sandy, silty, friable to brittle	24	136
Clay, medium-gray to medium-dark-gray, silty, brittle; sandstone at 150 feet	20	156
Sand, very fine, rounded	11	167
Lignite, black, hard, brittle	8	175
Clay, olive-green, silty, brittle	5	180

136-099-20DDD
NDSWC 4953
Date drilled: 08/12/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, fine, rounded; oxidized to about 20 feet; started making water at 18 feet------	35	35
Clay, medium-light-gray to light-bluish-gray, very silty, moderately cohesive, brittle---	6	41
Lignite, black, hard, brittel; saturated-----	5	46
Clay, medium-light-gray to light-bluish-gray, very silty, moderately cohesive, brittle---	62	108
Lignite, black, hard, brittle----------	8	116
Clay, medium-gray to bluish-gray, very silty to slightly sandy, cohesive, brittle; sandstone at 140 feet----------	44	160

136-099-31BCC
NDSWC 4956
Date drilled: 08/13/76

Sand, fine to medium, subrounded to rounded, well-sorted; oxidized to 35 feet; turned gray at 35 feet; started making water at 37 feet----------	72	72
Lignite, black, hard, brittle; saturated-----	5	77
Clay, medium-light-gray to medium-gray, very silty, cohesive, brittle----------	5	128
Lignite, black, hard, brittle; saturated-----	7	135
Clay, medium-light-gray to medium-gray, very silty, cohesive, brittle, slightly carbonaceous; sandstone at 148 feet--------	25	160

136-099-33DAA
NDSWC 4955
Date drilled: 08/13/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, very fine, rounded, very silty, oxidized; dry	5	5
Clay, moderate-yellowish-brown, very silty, slightly sandy, cohesive, brittle, oxidized	12	17
Clay, medium-gray, very silty, slightly sandy, cohesive, brittle	4	21
Sand, medium-gray, very fine, rounded, silty; dry	15	36
Clay, medium-light-gray to medium-dark-gray, very silty, cohesive, brittle, carbonaceous	11	47
Lignite, black, hard, brittle; dry	8	55
Clay, medium-light-gray to medium-dark-gray, very silty, cohesive, brittle, carbonaceous	59	114
Lignite, black to reddish-black, hard, brittle; dry	5	119
Clay, medium-light-gray to medium-gray, very silty, brittle; lignite at 175 feet	81	200

136-099-36CCC
NDSWC 4957
Date drilled: 08/16/76

Clay, moderate-yellowish-brown, silty, cohesive, oxidized	7	7
Clay, medium-light-gray to medium-gray, silty, moderately cohesive, brittle, slightly bentonitic; about 6 inches of lignite at 30 feet	44	51
Lignite, black, hard, brittle; dry	4	55
Clay, medium-light-gray to medium-gray, silty, moderately cohesive, brittle, bentonitic, slightly carbonaceous	18	73
Sand, medium-gray to greenish-gray, very fine, rounded; clay at 130 feet	65	138
Lignite, black, hard, brittle; saturated	7	145
Clay, medium-light-gray to medium-gray, silty, cohesive, brittle, bentonitic, slightly carbonaceous	15	160

136-100-12DAC
(Log modified from Kruger Drilling Co.)
Date drilled: 09/09/74

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sandy	20	20
Clay	40	60
Clay, sandy	10	70
Sandy	10	80

136-100-25DAA
(Log modified from Kruger Drilling Co.)
Date drilled: / /80

Clay	40	40
Sandy	15	55

136-100-28BAB
(Log modified from Kruger Drilling Co.)
Date drilled: 12/19/77

Clay	20	20
Clay, sandy	10	30
Sandy	10	40
Sand	14	54

136-100-35BBB
(Log modified from Kruger Drilling Co.)
Date drilled: 12/05/80

Clay	40	40
Coal and clay	10	50
Clay, sandy	20	70
Clay	20	90
Sandy	30	120

137-096-04ADA
(Log modified from Kruger Drilling Co.)
Date drilled: 10/04/78

Clay	102	102
Coal	14	116
Clay	19	135
Coal	10	145
Sand	10	155

137-096-04BAA2
(Log modified from Kruger Drilling Co.)
Date drilled: 04/23/72

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay	42	42
Coal	2	44
Clay	81	125
Sandy	9	134
Sand	2	136
Coal	2	138

137-096-31CBB
(Log modified from Kruger Drilling Co.)
Date drilled: 05/26/78

Clay	20	20
Sandstone	40	60
Sand, gray	20	80
Sand	18	98

137-097-03DBB2
(Log modified from Trident Service Inc.)
Date drilled: 08/05/81

Shale, tan, sandy	12	12
Sand, light-brown	6	18
Gravel	3	21
Shale, blue-gray	29	50

137-097-08BCA
(Log modified from Gregory Drilling Co.)
Date drilled: 04/25/80

Shale, brown, sandy	2	2
Sand, brown	16	18
Shale, light-gray	9	27
Sand, brown	41	68
Shale, gray	45	113
Sandstone	1	114
Shale, gray	6	120
Sand, gray, very fine	80	200

137-097-21AAA
(Log modified from Kruger Drilling Co.)
Date drilled: 12/01/80

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay	65	65
Coal	5	70
Sandy	20	90
Clay, sandy	10	100
Clay	10	110
Coal	10	120
Sandy	10	130

137-097-21CCC
(Log modified from Wock Drilling)
Date drilled: 12/21/79

Topsoil	4	4
Clay	26	30
Lignite	9	39
Clay; with intermittent rock	11	50
Clay	22	72
Lignite	6	78
Clay, sandy	69	147
Sand, clayey	7	154

137-097-28AAB
(Log modified from Gregory Drilling Co.)
Date drilled: 03/31/78

Clay, brown, sandy	5	5
Rock	2	7
Clay, yellow and brown	16	23
Coal slack	1	24
Clay, gray	1	25
Coal	3	28
Clay, gray	12	40
Clay, blue	6	46
Rock	2	48
Clay, gray	25	73
Clay, brown; with coal layers	8	81
Clay, gray	8	89
Rock	2	91
Clay, gray	144	235
Rock	3	238
Clay, gray	52	290
Clay, gray, sandy	15	305
Clay, gray	80	385
Sandstone	1	386
Sand, silty, very fine; with sandstone layers	54	440
Clay, gray, sandy	5	445

137-097-34AAD1
(Log modified from Gregory Drilling Co.)
Date drilled: 06/27/79

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, brown	2	2
Clay, yellow	19	21
Coal	2	23
Clay, blue	11	34
Rock	1	35
Clay, gray	23	58
Rock	1	59
Clay, gray	3	62
Coal and clay layers	10	72
Clay, gray	35	107
Coal and clay layers	8	115
Clay, gray	57	172
Rock	1	173
Clay, gray	62	235
Coal	15	250
Clay, gray	72	322
Coal	8	330
Clay, gray, sandy	12	342
Coal	20	362
Rock	2	364
Clay, gray	32	396
Coal	16	412
Rock	1	413
Coal	4	417
Rock	1	418
Clay, gray	16	434
Coal	5	439
Clay, gray	3	442
Rock	1	443
Clay, gray	19	462
Clay, sandy and coal	11	473
Clay, gray	36	509
Rock	2	511
Clay, gray	14	525
Clay, blue, sandy	35	560
Coal	7	567
Clay, gray	8	575
Coal	10	585
Clay, gray, silty	30	615
Clay, brown	15	630
Coal	5	635
Clay, gray	25	660
Clay, brown	5	665
Clay, gray	35	700

137-097-34AAD2
(Log modified from Gregory Drilling Co.)
Date drilled: 06/28/79

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, brown	2	2
Clay, gray	19	21
Coal	2	23
Clay, blue	7	30

137-098-24ABA
(Log modified from Gregory Drilling Co.)
Date drilled: 01/10/79

Clay, brown, sandy	2	2
Clay, yellow and brown	43	45
Clay, gray	5	50
Clay, yellow and brown	4	54
Coal	1	55
Clay, brown; with coal layers	15	70
Clay, gray, sandy	85	155
Rock	5	160
Clay, gray	10	170
Clay, gray; with coal layers	10	180
Clay, blue	70	250
Clay, blue, sandy	9	259
Rock	2	261
Sand, dirty and some clay streaks	19	280
Sandy, blue-gray, fine, silty; some clay streaks	30	310
Clay, sandy	30	340

137-098-31ADA
(Log modified from Leonard P. Makowski)
Date drilled: 07/24/78

Sand, yellow	9	9
Gravel	1	10
Sand, dark	14	24
Clay, dark	1	25
Clay, blue	1	26
Clay, dark	1	27
Coal	1.5	28.5
Clay, blue	11.5	40
Clay, white and sand	6	46
Sand, blue	8	54
Clay, dark	5	59
Coal	2	61
Sand, brown	2	63
Sand, coarse	7	70
Coal	2	72

137-099-02DAD
(Log modified from Leonard P. Makowski)
Date drilled: 07/17/78

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand, reddish-brown	4	4
Sand, rocky	5	9
Sandstone	3	12
Sand, brown	2	14
Gravel	1	15
Clay, brown	2	17
Clay, dark	4	21
Coal	3	24
Clay, blue	8	32
Coal	3	35
Clay, dark	13	48
Coal	2	50

137-099-12BBA
(Log modified from Leonard P. Makowski)
Date drilled: 10/09/81

Sand and gravel	6	6
Clay	11	17
Sand, brown	6	23
Sand, blue	17	40

138-096-07DCC2
(Log modified from Heiser Well Drilling)
Date drilled: 09/28/72

Topsoil	1	1
Sand	17	18
Clay	14	32
Coal	2	34
Clay	12	46
Rock at 46 feet	--	46

138-096-10BCC
(Log modified from Kruger Drilling Co.)
Date drilled: 03/19/75

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Bentonite	40	40
Clay, sandy	25	65
Coal and clay	15	80
Clay	20	100
Sandy	20	120
Sand	20	140

138-096-17AAA5
(Log modified from Wallace Beaudoin)
Date drilled: 10/05/81

Topsoil	1	1
Clay, yellow, sandy	14	15
Clay, yellow	19	34
Coal slack	1	35
Clay, gray	28	63
Clay, gray, sandy	7	70
Sand, gray	31	101
Coal	1	102
Clay, gray	58	160
Clay, gray, sandy	10	170
Sand, gray	30	200

138-096-21ADA3
(Log modified from Gregory Drilling Co.)
Date drilled: 03/31/76

Sand and clay, brown	2	2
Sand, yellow and brown	2	4
Clay, yellow and brown	21	25
Coal	2	27
Sand and clay, light-gray	57	84
Clay, blue	22	106
Coal	2	108
Clay, gray	11	119
Coal	3	122
Clay, gray	23	145
Clay, blue, sandy	3	148
Sand, blue, medium-fine to fine	30	178
Clay, gray	7	185

138-096-33DCC
(Log modified from Gregory Drilling Co.)
Date drilled: 12/04/80

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Shale, brown, sandy	4	4
Shale, brown	37	41
Sand, blue	9	50
Shale, gray	14	64
Sandstone	1	65
Shale, gray	34	99
Coal	3	102
Shale, gray	2	104
Coal	1	105
Shale, gray	15	120
Sand, clayey; cleaner at bottom	19	139
Sand; drilled tight 160 to 170 feet	31	170
Shale, gray	5	175

138-097-31CDA
(Log modified from from Gregory Drilling Co.)
Date drilled: 09/24/76

Fill	5	5
Sand, brown	4	9
Clay, brown	4	13
Sand and sandy clay	12	25
Clay, blue, sandy	6	31
Clay, brown	21	52
Clay, blue, sandy	21	73
Clay, brown	8	81
Clay, gray and coal	3	84
Clay, gray	3	87
Clay, blue	8	95
Coal	2	97
Clay, gray	23	120
Sand, white	4	124
Clay, gray	24	148
Sand, fine to medium-coarse; light-gray to white, layers of bentonite	24	172
Clay, brown	8	180

138-097-34BDB
(Log modified from Wock Drilling)
Date drilled: 07/30/80

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Topsoil	2	2
Clay	4	6
Rock	8	14
Clay	4	18
Rock	10	28
Clay, sandy	14	42
Clay	2	44
Clay, sandy	4	48
Clay	4	52

138-098-15AAA
(Log modified from Gregory Drilling Co.)
Date drilled: 02/25/81

Sand, brown	31	31
Shale, gray	11	42
Coal	1	43
Shale, gray	5	48
Coal	1	49
Shale, gray	7	56
Sandstone	1	57
Shale, gray	13	70
Coal	7	77
Shale, gray; with coal layers	3	80

138-098-18CCD
(Log modified from Goodale Well Drilling)
Date drilled: 04/09/73

Sandfill	4	4
Shale	9	13
Coal	9	22
Shale	31	53
Rock	2	55
Shale	20	75
Coal	8	83
Sand; dark water	37	120
Shale	25	145
Coal	20	165
Shale	22	187
Sand	33	220

138-099-05DAA
(Log modified from Gregory Drilling Co.)
Date drilled: 07/21/77

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, brown, sandy	2	2
Clay, brown	17	19
Scoria	1	20
Clay, gray	19	39
Sand, brown	2	41
Clay, blue	5	46
Clay, gray	15	61
Clay, brown	9	70
Clay, blue, sandy	15	85
Coal	13	98
Clay, gray	8	106
Clay, gray, sandy	15	121
Clay, gray	34	155
Clay, blue	9	164
Clay, gray	131	295
Rock	2	297
Clay, gray	33	330
Coal	9	339
Clay, gray	13	352
Sandstone	1	353
Sand, gray, silty	27	380
Clay, gray	20	400

138-099-05DDD
(Log modified from Mann Drilling Co.)
Date drilled: 09/23/80

Clay	62	62
Sand, fine, silty	18	80
Clay	25	105
Lignite	11	116
Clay	544	660
Sandstone	5	665
Sand	35	700

138-099-08ADD2
(Log modified from Gregory Drilling Co.)
Date drilled: 11/30/77

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, brown, sandy	2	2
Clay, yellow and brown	13	15
Rock	2	17
Clay, yellow and brown	5	22
Clay, gray	7	29
Coal slack	6	35
Clay, gray	21	56
Clay, blue	4	60
Clay, blue, sandy	18	78
Clay, gray	11	89
Coal; with clay layers	14	103
Clay, gray	85	188
Rock	2	190
Clay, gray	30	220
Clay, blue, sandy	19	239
Rock	1	240
Clay, gray, sandy	10	250
Clay, gray	105	355
Clay, blue	15	370
Clay, gray	40	410
Clay, gray, sandy	5	415
Sand, gray	5	420
Clay, gray, sandy	17	437
Rock	1	438
Clay, gray	32	470
Clay, blue	35	505
Rock	1	506
Coal; with clay layers	14	520
Clay, gray	35	555
Clay, blue	40	595
Clay, gray	75	670
Clay, gray, sandy	31	701
Rock	1	702
Clay, gray, sandy	20	722
Rock	1	723
Clay, gray, sandy	40	763
Sandstone	1	764
Sand, gray, fine	36	800
Clay, gray	35	835

138-099-12CCC
(Log modified from Goodale Well Drilling)
Date drilled: 11/29/72

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Fill	10	10
Shale	20	30
Sand, gravel and coal	10	40
Shale	22	62
Coal	18	80
Shale	120	200
Rock	35	235
Shale	65	300
Coal	10	310
Shale	80	390
Coal	15	405
Shale	35	440
Sand; dark water	50	490
Coal	20	510
Shale	30	540
Coal	10	550
Shale	60	610
Rock	3	613
Sand	67	680

138-099-14BAA
(Log modified from Gregory Drilling Co.)
Date drilled: 04/12/76

Clay, brown, sandy	2	2
Sand, yellow and brown	9	11
Clay, yellow and brown	12	23
Clay, gray	10	33
Coal	1	34
Clay, gray	19	53
Coal	14	67
Clay, gray	8	75
Sand, blue, medium to fine; slightly clayey-	30	105
Clay, blue-gray, sandy	15	120

138-099-24BCB
(Log modified from Gregory Drilling Co.)
Date drilled: 09/14/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, brown, sandy	3	3
Clay, brown	10	13
Sand, yellow and brown	11	24
Clay, yellow and brown	11	35
Sand, gray	10	45
Clay, gray	15	60
Clay, sandy	38	98
Rock	2	100
Sand, blue	30	130
Clay, brown	2	132
Clay, gray	3	135

138-099-28ABB4
(Log modified from Gregory Drilling Co.)
Date drilled: 07/26/77

Clay, brown, sandy	2	2
Clay, yellow and brown	18	20
Clay, gray	8	28
Rock	1	29
Clay, gray	4	33
Coal	6	39
Clay, gray	57	96
Coal	9	105
Clay, gray	37	142
Rock	3	145
Clay, gray	5	150
Clay, blue	20	170
Clay, gray	55	225
Rock	5	230
Clay, blue, sandy	64	294
Coal	1	295
Clay, gray	16	311
Rock	4	315
Clay, gray	14	329
Coal	11	340
Clay, gray	10	350
Clay, blue	10	360
Sandstone	1	361
Sand, gray, very fine, silty	44	405
Clay, gray	7	412

139-096-32DCD
(Log modified from Mann Drilling Co.)
Date drilled: 05/07/72

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, tan	16	16
Clay, gray	26	42
Lignite	3	45
Clay	37	82
Sand	53	135
Lignite	3	138
Clay	42	180
Sand	40	220

139-097-04DAA
(Log modified from Kruger Drilling Co.)
Date drilled: 06/25/76

Sand, yellow	45	45
Clay	135	180
Sand	65	245

139-097-04DCC
(Log modified from Gregory Drilling Co.)
Date drilled: 02/11/76

Sand, brown, clayey	4	4
Coal	2	6
Clay, yellow and brown	32	38
Clay, gray	39	77
Coal	8	85
Clay, blue	5	90
Clay, gray	15	105
Clay, gray, sandy	15	120
Sand, gray, fine to slightly-coarse	30	150
Clay, blue	4	154

139-097-07ABD
(Log modified from Gregory Drilling Co.)
Date drilled: 10/06/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, brown, sandy	4	4
Clay, brown and yellow	9	13
Clay, gray	10	23
Rock	1	24
Clay, blue	15	39
Clay, blue, sandy	12	51
Clay, gray	4	55
Rock	1	56
Clay, gray	31	87
Sandstone	8	95
Clay, gray, sandy	5	100
Sand, gray, fine to very fine; some clay layers	44	144
Clay, gray	5	149

139-097-10BBB
(Log modified from Gregory Drilling Co.)
Date drilled: 12/30/80

Shale, brown	4	4
Coal	2	6
Shale, brown	13	19
Shale, gray	3	22
Coal	1	23
Shale, gray	32	55
Shale, brown	5	60
Sand, blue	15	75
Shale, sandy	5	80
Shale, gray	5	85
Coal	9	94
Shale, gray	16	110
Sand, silty, dirty	16	126
Sand, blue and gray, fine	36	162
Coal	1	163
Shale, gray	2	165

139-097-17DAA3
(Log modified from Gregory Drilling Co.)
Date drilled: 12/31/75

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, brown, sandy	2	2
Clay, yellow and brown	9	11
Coal	2	13
Clay, gray	40	53
Clay, blue	8	61
Clay, gray	83	144
Coal	5	149
Clay, gray	11	160
Clay, gray, sandy	18	178
Coal	9	187
Clay, gray	178	365
Sandstone, hard	2	367
Clay, gray	3	370
Shale, gray	4	374
Clay, gray	36	410
Sandstone, hard	1	411
Sand, blue, medium coarse to fine; 2 gallons per minute	41	452
Coal	2	454
Clay, gray, sandy	9	463
Coal	4	467
Clay, gray	68	535
Coal	7	542
Clay, gray	83	625
Sandstone, soft	3	628
Clay, gray	26	654
Sandstone, soft	1	655
Sand, gray, fine to very fine	10	665
Sandstone, very soft	3	668
Sand, gray, fine to very fine	11	679
Sand, gray, very fine	21	700
Clay, gray	5	705

139-097-27AAA
(Log modified from Opp Well Drilling)
Date drilled: 10/03/72

Topsoil	1	1
Clay, dark	4	5
Sand, gray	71	76
Sand, blue-gray	14	90
Sand, blue	5	95

139-097-27ADD
(Log modified from Ouellette Water Well Drilling)
Date drilled: 05/08/72

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, sandy	1	1
Sand, yellow	49	50
Sand, gray	10	60
Sand, blue	16	76

139-097-29AAD
(Log modified from Mann Drilling Co.)
Date drilled: 06/24/73

Sand, tan	16	16
Sandstone	1	17
Clay, sandy	15	32
Lignite, soft	4	36
Clay	4	40
Lignite	1	41
Clay	24	65
Clay, sandy	14	79
Clay	131	210
Lignite	5	215
Clay	25	240

139-098-03CDD
(Log modified from Gregory Drilling Co.)
Date drilled: 09/28/81

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Shale	32	32
Coal	7	39
Shale, gray	51	90
Sandstone	2	92
Shale, gray, sandy	21	113
Coal	14	127
Shale, gray, sandy	12	139
Coal	6	145
Shale, gray	74	219
Sandstone	1	220
Shale, gray	27	247
Coal	7	254
Shale, gray, sandy	12	266
Coal	8	274
Shale, gray, sandy	5	279
Sandstone	1	280
Shale, gray	25	305
Coal	3	308
Shale, gray	6	314
Sandstone	1	315
Shale, gray	54	369
Sandstone	2	371
Shale, gray, silty	23	394
Coal	3	397
Shale, gray	8	405
Sandstone	1	406
Shale, blue, sandy	17	423
Shale, gray	21	444
Sand, gray, fine	17	461
Coal	1	462
Shale, gray	10	472

139-098-04ADD
(Log modified from Gregory Drilling Co.)
Date drilled: 03/10/80

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Shale, brown	41	41
Coal	9	50
Shale, gray	21	71
Sandstone	1	72
Shale, sandy	12	84
Coal	4	88
Shale, gray	14	102
Coal	14	116
Shale, gray	11	127
Coal	3	130
Shale, gray	25	155
Shale, sandy	13	168
Shale, gray	60	228
Coal	3	231
Shale, gray	24	255
Coal	5	260
Shale, gray	15	275
Coal	3	278
Shale, gray	87	365
Sand, gray, very fine	30	395
Shale, gray	25	420

139-098-08AAA2
(Log modified from Mann Drilling Co.)
Date drilled: 07/09/79

Topsoil	2	2
Sand	10	12
Clay, sandy	9	21
Clay	14	35
Lignite	15	50
Clay	45	95
Sandstone	3	98
Clay	9	107
Sandstone	2	109
Sand, fine	6	115
Sandstone	3	118
Sand	12	130

139-098-19AAA
(Log modified from Gregory Drilling Co.)
Date drilled: 03/17/81

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Shale, brown	14	14
Coal slack	3	17
Shale, gray	27	44
Coal	4	48
Shale, gray	42	90
Shale, sandy	10	100
Sand, gray, dirty	20	120
Sand, gray	35	155
Shale, gray	3	158
Coal	18	176
Shale, gray	54	230
Sandstone	5	235
Shale, sandy	4	239
Sandstone	5	244
Shale, sandy	16	260
Shale, gray	67	327
Coal	8	335
Shale, gray	33	368
Sandstone	1	369
Shale, gray	96	465
Shale, silty, sandy	12	477
Coal	4	481
Shale, gray	79	560
Sand, gray, fine	25	585
Shale, gray	12	597
Coal	3	600
Shale, gray	5	605

139-098-22DDA3
(Log modified from Mann Drilling Co.)
Date drilled: 04/22/76

Clay, tan, sand	18	18
Clay	19	37
Lignite	2	39
Clay	45	84
Lignite	6	90

139-099-03DDD
(Log modified from Gregrory Drilling Co.)
Date drilled: 09/15/76

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, brown, sandy	4	4
Clay, yellow and brown	12	16
Clay, brown	3	19
Clay, yellow and brown	4	23
Clay, gray	9	32
Sand, yellow and brown	2	34
Clay, sandy	17	51
Rock	1	52
Coal	19	71
Clay	4	75

139-099-04CBB
(Log modified from Gregory Drilling Co.)
Date drilled: 02/12/77

Clay, brown, sandy	3	3
Clay, brown	3	6
Gravel	3	9
Clay, yellow and brown	15	24
Rock	2	26
Sand, yellow and brown	12	38
Clay, blue	12	50
Coal	13	63
Clay, gray	38	101
Clay, gray, silty to sandy; some layers of fine sand	22	123
Clay, gray	46	169
Coal	8	177
Clay, gray	23	200
Sandstone	1	201
Sand, gray, silty to sandy, clay layers	35	236
Sandstone	1	237
Sand, gray, silty to sandy, very fine	31	268
Sandstone	1	269
Sand, silty to sandy, very fine; some clay layers	27	296

139-099-04CCB
(Log modified from Leonard P. Makowski)
Date drilled: 05/09/80

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay	3	3
Coal slack	3	6
Clay	4	10
Clay, sandy	6	16
Sand, brown	6	22
Sand, gray	3	25
Clay	15	40
Sand, fine	1	41
Clay	7	48
Coal	4	52
Clay	8	60

139-099-05ABD
(Log modified from Russell Drilling Co.)
Date drilled: 04/20/77

Topsoil	1	1
Clay, yellow	19	20
Sand, yellow	10	30
Lignite	17	47
Clay, gray	29	76
Sandstone	3	79
Clay, gray	7	86
Limestone	1	87
Clay, green	34	121
Lignite	3	124
Clay, gray	25	149
Lignite	8	157
Sand, blue-green	113	270
Clay, gray	39	309
Lignite	2	311
Clay, green	7	318
Lignite	2	320
Clay, gray, sandy	38	358
Lignite	2	360
Clay, gray	60	420
Lignite	30	450
Clay, gray	15	465
Lignite	13	478
Clay, gray	27	505
Limestone	1	506
Clay, gray	9	515

139-099-05ABD-Cont.
(Log modified from Russell Drilling Co.)
Date drilled: 04/20/77

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay, green; with lignite	5	520
Clay; with lignite	97	617
Limestone	2	619
Sand	41	660
Lignite	10	670
Sand	11	681
Lignite	11	692
Clay, gray; with lignite	28	720
Sand	10	730
Clay, sandy	30	760
Sand	20	780
Sandstone	18	798
Sand	42	840
Clay, green; with lignite	40	880
Clay, sandy	18	898
Clay	30	928
Limestone	2	930
Clay; with lignite streaks	80	1010
Limestone	6	1016
Sand and silty clay	24	1040
Clay, gray to brown	60	1100
Clay, brown	10	1110
Clay, white	12	1122
Limestone	2	1124
Clay, gray to brown	11	1135
Lignite	1	1136
Clay, gray	4	1140
Clay, gray; with lignite	26	1166
Limestone	1	1167
Clay, gray; with lignite streaks	58	1225
Lignite	7	1232
Limestone	4	1236
Clay, gray	4	1240
Sandstone, very hard	5	1245
Clay, gray to dark-gray	25	1270
Sand	20	1290
Limestone	2	1292
Clay, dark-gray	48	1340
Lignite	3	1343
Limestone	2	1345
Clay, gray	21	1366
Limestone	2	1368
Lignite	5	1373

139-099-05ABD-Cont.
(Log modified from Russell Drilling Co.)
Date drilled: 04/20/77

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay and lignite	19	1392
Limestone	3	1395
Clay, gray to dark-gray	20	1415
Limestone	3	1418
Clay, gray to dark-green	38	1456
Limestone	1	1457
Clay, brown, sticky; with lignite	56	1513
Limestone	1	1514
Clay, brown	40	1554
Sand, fine	15	1569
Sandstone	4	1573
Sand	17	1590
Sand and clay	45	1635
Limestone	2	1637
Clay, gray	62	1699
Sand, medium to fine	46	1745
Clay, sandy	7	1752
Sandstone	6	1758
Clay, sandy	22	1780
Clay; with sand streaks	72	1852
Limestone	3	1855
Clay	43	1898

139-099-07AAA2
(Log modified from Kruger Drilling Co.)
Date drilled: 08/20/79

Clay	44	44
Coal	5	49
Clay	56	105
Sand	10	115
Sand and coal	5	120

139-099-11BBB3
(Log modified from Leonard P. Makowski)
Date drilled: 10/07/79

Topsoil	1	1
Clay	15	16
Sand, coarse, clayey	16	32
Sand, blue, fine	6	38
Clay	2	40

139-099-15DAB3
(Log modified from Kruger Drilling Co.)
Date drilled: 04/18/74

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand and gravel	40	40
Clay	60	100
Sand	30	130
Clay	80	210
Clay, sandy	15	225
Sand; driller reports darkest water he has seen	25	250
Clay	10	260
Coal	10	270
Clay	110	380
Clay and coal	40	420
Clay and coal streaks	80	500
Sand, white, fine	40	540

139-099-18CCC3
(Log modified from Mann Drilling Co.)
Date drilled: 01/23/74

Clay, tan, sandy	28	28
Lignite	4	32
Clay, gray	58	90
Lignite	6	96
Clay	294	390
Sand	20	410

139-099-24ABB2
(Log modified from Wallace Beaudoin)
Date drilled: 08/15/72

Topsoil	1	1
Clay, brown	14	15
Clay, gray	85	100
Coal	17	117

139-099-35ACB3
(Log modified from Leonard P. Makowski)
Date drilled: / /76

Clay, yellow	3	3
Sand, brown, clayey	21	24
Sand, gray; water	14	38
Sand, blue, fine; water	4	42
Clay, blue	8	50

206 (OVERSIZE FIGURE)

TABLE 9.--Chemical analysis of selected wells in the Dickinson coal area.

Principal aquifer

111, Holocene
125, Palocene
211, Upper Cretaceous

ALVM, alluvium
CBLD, Cannonball-Ludlow Members of Fort Union Formation
CNBL, Cannonball Member of Fort Union Formation
FRUN, Fort Union Formation
FXHL, Fox Hills Sandstone
HCFH, Hell Creek Formation-Fox Hills Sandstone
LHCK, Ludlow Member of Fort Union Formation-Hell Creek Formation
SBTR, Sentinel Butte-Tongue River Members of Fort Union Formation
SNLB, Sentinel Butte Member of Fort Union Formation
TGRV, Tongue River Member of Fort Union Formation
TRVL, Tongue River-Ludlow Members of Fort Union Formation

Specific conductance

Value shown is the field specific conductance measured at the well at the time of inventory.

LOCAL IDENTIFIER	GEOLOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (UMHO/CM AT 25°C)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
135N096W20BBB2	125SBTR	60	69-06-05	2410	7.9	7.5	220	0	55	20	560	--	15	5.4	771	0	700	16	1.1	8.7	1810	--	480	400	--
135N097W04AD62	125SNLB	84	58-11-07	1350	7.9	8.3	170	0	38	18	300	--	--	3.4	558	0	230	26	1.4	15	911	--	--	570	100
135N097W04AD01	125SNLB	105	67-06-20	1450	7.9	8.9	270	0	58	30	250	--	6.7	4.4	546	0	330	8.8	.6	12	975	--	350	180	--
135N097W04DCA	211FXML	1360	68-08-04	1980	8.4	9.5	47	0	13	3.5	450	--	29	2.0	591	8	530	5.2	.8	7.9	1310	--	830	1200	--
	211FXML	1360	68-09-09	2200	8.5	21.0	17	0	4.8	1.2	550	--	58	2.0	1050	22	91	150	4.5	13	1350	--	1900	740	--
135-099-01UDU2	211FXML	1360	68-09-19	2290	8.5	14.0	16	0	3.8	1.6	570	--	62												
136N096W19UDU	125TKVL	902	78-08-29	2390	8.4	--	20	0	2.7	3.3	650	98	63	2.4	1080	21	46	190	4.4	12	1380	--	2100	4000	--
136N097W15UAD	--	132	67-06-25	864	7.8	--	420	200	120	30	33	--	.7	1.9	1600	26	19	12	4.6	8.1	1550	.23	1300	410	40
136N097W32CBB	125SNLB	201	67-12-06	1520	8.2	7.0	38	0	9.6	3.4	350	--	25	3.8	269	0	260	2.5	.2	9.1	800	--	40	2800	--
	125SNLB	170	67-12-05	1860	8.5	7.5	24	0	6.2	2.1	440	--	39	3.6	539	0	330	12	1.5	7.5	1000	--	340	1100	--
136N097W33UCL	125SNLB	104	67-06-20	1910	7.9	8.9	120	0	29	15	430	--	17	2.0	627	10	440	4.3	.2	--	1220	--	880	1700	--
136-098-31ABB	125LMCK	980	75-07-22	2070	8.5	14.0	19	0	2.7	3.0	540	98	54	4.3	867	0	470	6.5	1.1	11	1290	--	620	200	--
136-100-28BAB	--	54	82-08-12	1120	7.0	9.0	330	--	67	40	140	47	3.7	2.1	1390	25	6.2	14	1.5	5.9	1330	.90	1500	400	<10
136-100-31UDC1	211HCFM	1725	75-10-03	1920	9.1	21.0	14	0	4.7	.6	470	98	54	5.6	--	--	220	9.2	.5	19	741	--	120	80	110
136-100-31UDC2	125LMCK	642	77-09-15	2950	8.6	10.0	78	0	6.4	15	670	94	33	3.5	742	87	220	57	2.3	13	1230	--	1300	60	<10
136-101-02ABC	125TKVL	600	69-07-02	--	8.5	12.5	11	0	2.4	1.2	400	99	53	8.7	553	0	1060	22	1.4	.2	1990	.23	50	100	40
136-101-25ACC	125TRVL	515	75-06-06	1550	8.8	13.5	14	0	2.1	2.2	390	98	45	1.8	980	38	28	1.5	4.7	10	--	--	--	--	--
137-096-22CCC2	125SNLB	41	67-11-15	1010	7.6	9.0	320	200	76	31	100	5	41	2.7	680	38	230	13	2.9	5.5	1020	.23	1000	630	20
	125SNLB	41	71-09-28	1100	7.9	8.0	370	190	88	37	100	37	2.3	4.9	197	0	370	2.8	.7	16	708	.00	0	2900	--
137-097-21AAA	125FRUH	130	82-06-24	1020	7.4	13.0	280	--	64	23	130	52	3.8	4.2	225	0	400	1.5	.7	16	709	.23	490	2800	870
137N097W22DAD3	125SNLB	135	69-05-06	2590	8.1	--	120	0	34	9.5	600	--	23	6.6	--	--	210	4.0	.2	13	860	--	430	340	180
137N097W31BDD	125SNLB	255	67-07-17	1340	8.2	9.4	21	0	5.6	1.7	330	--	31	7.2	807	0	760	4.0	2.6	7.4	1820	--	0	2200	--
137N098W04BAC	125SNLB	120	69-05-05	890	7.8	--	220	0	62	17	110	--	3.2	2.7	619	0	230	1.5	3.1	5.5	876	--	590	2500	--
137N098W12BBB	125CMBL	740	69-06-02	1590	8.5	13.5	13	0	4.0	.7	410	--	50	7.5	284	0	210	8.1	.3	17	584	--	40	300	--
137-098-31ADA	125FRUH	70	82-06-28	3280	7.9	11.0	74	--	15	8.8	750	95	38	2.4	1010	24	37	5.3	5.6	9.8	995	--	670	10000	--
137-099-02UAD	125FRUH	50	82-06-28	1340	7.3	8.0	380	--	78	46	150	46	3.7	5.7	--	--	1000	8.8	1.2	7.4	2210	--	750	100	30
137N099W09ABA	125SNLB	55	69-03-05	1800	8.6	9.0	36	0	5.6	5.4	430	--	31	2.7	--	--	390	11	1.4	14	921	--	250	40	130
137N099W24DDD	125SNLB	224	69-06-09	2540	8.4	10.5	160	0	8.0	35	570	--	19	1.4	711	35	310	1.0	4.8	7.4	1190	--	200	230	--
138N096W16ADA	125SNLB	55	67-11-16	1050	7.9	9.5	100	0	24	10	200	--	8.7	2.5	727	17	710	6.1	0.7	7.7	1670	--	220	510	--
138N096W21DDD1	--	160	68-01-25	--	--	--	--	--	--	--	--	--	27	5.5	346	0	250	5.0	.0	11	721	--	240	360	--
138N096W28AAA	125SNLB	192	69-05-01	1410	8.7	9.0	--	--	16	4.4	320	--	--	--	--	--	--	--	--	--	--	--	--	--	--
138N097W02ADD2	125SNLB	192	69-05-22	--	--	--	28	0	--	--	--	--	--	7.1	627	20	210	8.9	--	8.7	--	--	--	--	--
138-098-15AAA	125SNLB	132	67-07-13	1110	8.2	8.9	36	0	9.2	3.2	240	--	--	--	--	--	--	--	.4	--	893	--	300	1000	--
138N099W08UDA	125FRUH	80	82-06-29	2420	7.9	13.0	85	--	16	11	530	93	18	4.4	403	0	200	19	.9	8.6	670	--	160	40	--
	125SNLB	80	69-03-06	8010	8.0	7.5	1300	260	190	200	1710	--	21	5.4	--	--	950	3.0	.6	11	1630	--	700	90	40
138N099W24CCC	125C8LO	833	69-04-07	984	8.9	11.5	16	0	4.7	1.1	230	--	17	1290	0	2800	--	5.5	19	6720	--	1000	7400	--
138-100-07AAA1	125LMCK	980	78-08-26	2250	8.8	13.0	10	0	2.1	1.2	540	--	25	2.8	376	44	130	5.0	2.4	7.1	672	--	410	1800	--
139N096W03B 1	125SNLB	202	21-06-25	1400	--	--	330	--	46	52	--	99	74	1.8	1300	64	.8	11	2.9	11	1290	.23	1300	770	40
139N096W03B 2	125SNLB	185	21-06-25	1370	--	--	280	--	47	40	--	--	--	--	508	0	320	2.0	--	20	--	--	--	50	--
139N096W04ACA	125SNLB	154	47-07-18	2260	8.4	--	51	0	9.0	7.0	570	--	--	--	503	0	300	3.0	--	16	--	--	--	1800	--
139N096W04DCA	125SNLB	130	21-06-25	1460	--	--	290	--	49	40	--	--	--	0.4	911	--	530	7.0	.2	12	--	--	--	0	--
139N096W09BBD	1257GRV	620	67-07-14	1710	8.6	13.3	7	0	2.0	.5	440	--	--	--	505	0	350	4.0	--	16	--	--	--	50	--
139N096W12DBB	125SNLB	52	46-10-06	4150	7.8	--	410	0	82	49	--	--	73	1.6	1030	28	33	8.2	5.9	8.6	1080	--	740	200	--
139N096W23BCC	125SNLB	194	69-05-28	1780	8.3	10.5	30	0	7.5	2.6	420	--	--	--	878	--	1660	9.6	.8	--	--	--	--	770	--
139N097W01UDA	125SNLB	50	47-07-18	890	7.1	--	350	10	64	46	66	--	33	2.2	725	90	340	1.5	2.1	9.5	1160	--	520	300	--
139-097-10BBB	--	165	82-07-29	1710	7.1	12.0	300	--	62	36	300	68	8.4	7.8	--	--	380	14	.7	14	--	--	--	50	--
139N097W10DDD	125SNLB	40	47-07-18	2320	7.1	--	1300	820	320	110	180	--	--	7.0	554	--	1100	3.5	.7	11	1130	--	600	1100	--
139N097W13DB	125SNLB	34	47-07-18	741	7.4	--	241	0	57	24	89	--	--	7.6	392	--	710	12	.1	13	--	--	--	770	140
139N097W14UAB	111ALVM	30	47-07-18	2950	7.3	--	1200	840	310	97	130	--	--	11	413	--	970	6.0	.4	16	--	--	--	50	--
139-097-17DAA3	--	700	82-07-29	1530	8.3	13.0	12	--	2.8	1.3	400	98	50	1.5	--	--	130	8.4	4.9	6.6	984	--	920	470	10
139N097W22AAA2	125SNLB	98	67-07-17	1070	7.9	--	74	0	1.5	.5	436	99	79	1.5	--	--	--	4.5	.5	11	699	--	120	100	--
139-098-04AAD	--	395	80-04-10	1640	--	20.0	6	--	7.6	4.1	500	--	36	4.3	758	0	490	--	--	--	1255	--	--	0	--
139N098W12CCC3	125SNLB	66	67-07-17	2080	8.2	6.1	36	0	3.9	1.1	393	--	46	1.2	790	12	150	3.1	.4	17	1370	--	710	3300	--
139N098W13DDD	125TGRV	431	67-10-05	1520	8.4	11.0	14	0	3.9	1.1	393	--	46	1.2	790	12	150	7.6	.4	--	949	--	980	20	--
139-098-22UDA3	--	80	82-07-28	--	6.6	22.0	250	--	41	35	500	81	14	6.0	--	--	730	19	.8	19	1720	--	1400	2000	--
139-099-03DDD	--	51	82-07-28	2130	6.8	11.0	308	--	55	39	420	75	11	5.4	--	--	590	6.9	.7	11	1470	--	450	130	130
139-099-04CCB	--	60	80-05-21	--	--	--	180	--	35	23	2032	96	66	9.6	--	--	--	--	--	--	3600	--	--	0	170
139-099-07AAA2	--	60	82-07-27	6450	7.5	10.0	150	--	19	24	1600	96	58	7.7	--	--	2400	5.8	1.8	8.4	4900	--	750	200	60
139N099W21CCC	125SNLB	120	82-07-28	3820	8.1	10.0	40	--	6.7	5.6	990	98	68	4.5	--	--	1800	9.1	3.5	7.6	2720	--	510	270	30
	125TGRV	361	67-10-03	1620	8.7	11.0	10	0	2.1	1.2	424	--	58	1.1	1030	34	12	6.4	.7	--	1020	--	1100	360	--
139-096-07ADA[a]	--	319	81-06-08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	211FXHL[b]	1962	81-07-20	2120	8.5	--	26	0	5.5	3.0	497	98	42	3.9	715	37	420	4.0	4.6	--	1320	--	--	--	--
	211FXHL[b]	1962	81-07-21	2200	8.5	--	7	--	2.0	.5	560	99	92	1.8	1090	26	4	180	4.8	--	1300	--	--	--	--
	211FXHL[b]	1962	81-07-22	2190	8.5	--	6	--	1.5	.5	606	100	104	1.6	--	--	--	--	--	--	1760	2	--	0	0
												100	109	1.8	1090	24	4	180	4.7	--	1350	2	--	0	0

[a] Sample taken from an open hole.
[b] Sample taken from a completed well.

209 (OVERSIZE FIGURE)

TABLE 10.--Records of wells and test holes in the Bowman-Gascoyne coal area.

Owner

NDGS, North Dakota Geological Survey

NDSWC 4383, North Dakota State Water Commission, test hole number 4383

USGS LM-38, United States Geological Survey auger hole number LM-38

Wegner, 1-32, Oil and gas test holes are included that may provide data for the understanding of shallow aquifer systems. Logs are available from the North Dakota Geological Survey

Water level (feet)

Water level, in feet below or above (+) land surface

D, dry
F, well flows
O, obstruction
R, recently pumped
Z, other

Use of water

H, domestic
N, industrial
P, public supply
S, stock supply
U, unused

Principal aquifer

125, Paleocene
211, Upper Cretaceous

CNBL, Cannonball Member of Fort Union Formation
FRUN, Fort Union Formation
HCFH, Hell Creek Formation-Fox Hills Sandstone
HRMN, Harmon lignite aquifer
LDLW, Ludlow Member of Fort Union Formation
LHCK, Ludlow Member of Fort Union Formation-Hell Creek Formation
SNLB, Sentinel Butte Member of Fort Union Formation
TGRVL, Tongue River Member of the lower Fort Union Formation
TGRV, Tongue River Member of Fort Union Formation
TRVL, Tongue River-Ludlow Members of Fort Union Formation

Specific conductance

Value shown is the field specific conductance measured at the well at the time of inventory.

Altitude of land surface (feet)

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
130-098-01CDD	WOTHE, V	--	115	--	4	1950	--	--	H,S	--	700	--	2865
130-098-03DAD1	KENITZER, A	179	179	--	4	1962	--	--	H	--	1130	--	--
130-098-03DAD2	KENITZER, J	--	170	--	--	1962	--	--	H,S	--	1400	--	2898
130-098-04CBB	DUNNEK, L	95	95	--	4	1970	--	--	H	125TRVL	1140	--	--
130-098-04DBB	REEDER	1340	1274	1204	8	1971	306.00	09/ /1971	P	211MCFH	1730	22.0	2850
130-098-04DCC	REEDER	--	1200	--	--	1950	--	--	P	211MCFH	1760	19.5	2825
130-098-07BDD	ANDERSON, V	70	--	--	4	1959	60.00	--	S	--	--	--	--
130-098-14DBB	ANDERSON, A	250	250	--	4	1959	--	--	S	--	1400	9.5	--
130-098-17DAA	WOTHE, R	296	296	265	4	1963	--	--	S	125LDLM	1940	10.2	--
130-098-19CDD	BOHNE, R	--	90	80	4	1948	7.00	--	H	125TRVL	2400	--	2690
130-098-21CCC1	4389, NDSWC	660	411	399	2	1971	131.00	11/ /1971	U	125LHCK	1760	10.0	2750
130-098-21CCC2	4389A, NDSWC	--	196	190	1	1971	107.00	11/ /1971	U	125LDLM	1590	8.5	2750
130-098-24ACA	ANDERSON, A	--	87	--	6	1948	45.00	--	H,S	--	700	--	2820
130-098-26BAC	BUGNER, D	232	232	--	4	1962	--	--	H	125LDLM	1580	--	--
130-098-27ADD	SANFORD, G	--	189	--	5	1920	0.00	1980	H,S	125LDLM	1200	--	2740
130-098-28BBD	BOHNE, R	167	167	--	4	1961	55.00	06/ /1971	S	125LDLM	--	--	2700
130-098-34BBA	BOHNE, R	168	168	--	4	1963	--	--	S	--	--	--	--
130-098-35DDA	SOLSETH, C	--	60	--	4	--	15.00	--	H,S	--	1400	--	2760
130-099-02ADD	PERKINS, ROBERT W	44	44	34	--	06/13/1981	4.53	09/23/1981	U	125TGRVL	2250	6.9	2752
130-099-02DDD	PERKINS, ROBERT W	58	58	48	--	06/16/1981	--	--	U	125TGRVL	--	--	2766
130-099-03ABC	PERKINS, R.	63	56	44	4	1972	18.00	--	S	--	--	--	--
130-099-03CDD	MIN., DRESSER	--	125	--	--	1964	--	--	H	--	1400	--	--
130-099-04AAA	NDGS	70	65	55	--	06/12/1981	33.40	10/06/1981	U	125TGRVL	5350	8.6	2786
130-099-04BAA	NDSWC	47	47	35	2	09/13/1976	--	--	U	125TRVL	4500	15.0	2765
130-099-04BBB	WOLF, M.	63	56	56	4	1962	--	--	H	--	3500	--	--
130-099-12ADD	PAGE, LEONARD	500	490	448	4.50	03/11/1974	160.00	03/11/1974	S	--	1910	11.0	--
130-099-12CCB	HIRSCH, R	--	163	35	5	1953	--	--	H,S	--	2600	--	2760
130-099-15BCC	CZYWCZYNSKI, C.	--	--	--	--	--	2.00	--	S	--	712	11.0	2750
130-099-17AAA1	4454, NDSWC	410	346	334	2	1972	87.00	09/ /1972	U	125LHCK	1610	11.0	2775
130-099-17AAA2	NDSWC 4454A	200	198	192	1	1972	43.00	08/ /1972	U	125LDLM	2280	--	2775
130-099-18ADA	PAPKA, C.	--	150	--	--	1930	--	--	H	--	1550	--	2790
130-099-19AAA	PAPKA, C.	387	296	296	4	1960	125.00	--	S	--	--	--	2800
130-099-20ADD	PETERSON, D.	42	31	31	4	--	14.00	05/ /1971	H	--	--	--	--
130-099-21DBD	PETERSON, D.	84	40	40	4	1967	21.00	05/ /1971	S	--	--	--	--
130-099-23AAD	KUBISTA, L	--	28	--	18	1950	12.00	--	H,S	--	3100	--	--
130-099-25BCC	KROMAREK, L.	412	412	--	--	1962	--	--	U	--	--	--	2770
130-099-28BBA	PETERSON, L.	--	50	6	6	1958	45.00	--	S	--	1100	--	2845
130-100-02AAA	4455, NDSWC	600	418	406	2	1972	112.00	02/ /1973	U	125LHCK	1580	11.5	2805
130-100-02BCC	ENSIGN, C.	105	76	--	4	1969	42.00	--	H	--	1480	--	--

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
130-100-02DDA1	BROWN, O.	107	107	--	6	1958	--	--	U	--	--	--	--
130-100-02DDA2	BROWN, O.	135	129	100	6	1970	0.00	--	H,S	125TRVL	2810	10.0	--
150-100-06DAA	MAURUD, N.	--	85	--	6	1945	30.00	--	H,S	--	530	10.0	--
130-100-10BDD	ENSIGN, C.	103	60	--	4	1969	36.00	--	H	--	--	--	--
130-100-13CBC	BROWN, DON	200	200	--	4.50	10/13/1980	60.00	10/13/1980	S	--	1800	10.0	--
130-100-21DAA	MAYCHRZAK, F.	--	120	20	5	1940	27.00	--	H,S	--	3100	9.0	--
130-100-23ABA	TURPEN, J.	--	180	100	5	1941	60.00	--	H,S	--	--	--	--
130-100-24DAB	TURPEN, J.	270	270	200	4	1959	10.00	--	S	125LDLW	960	9.0	2820
130-100-29DDD	BLISS, I.	--	147	40	5	1944	20.00	--	H,S	--	2000	10.0	--
131-098-01BCC1	HAGEN, P	112	112	--	6	1951	--	--	H	125TRVL	900	--	--
131-098-01BCC2	HAGEN, P	110	110	--	--	1968	--	--					
131-098-01BCC3	HAGEN, P	190	151	90	4	1970	14.00	06/ /1971	U	125TRVL	--	--	--
131-098-01BCC4	HAGEN, P	89	81	69	4	1970	50.00	--	U	125TRVL	--	--	--
131-098-07BCC	HUFLAND, D	387	352	--	4	1963	180.00	1964	H	125TRVL	1580	--	--
131-098-08CDD	BAUMAN, F	--	170	--	4	1910	154.00	1911	S	125CNBL	1440	--	--
131-098-11ACC	HAGEN, P	95	95	22	4	1963	--	--	H,S	125TRVL	2030	9.5	2959
131-098-12BCC	HAGEN, A	--	75	--	6	1955	--	--	S	125TRVL	930	--	--
131-098-23CCC	HONEYMAN, O	--	140	140	6	--	--	--	H,S	125TRVL	2100	9.0	--
131-098-23DAD1	8352, NDSWC	500	356	344	2	1972	123.00	07/ /1972	H,S	--	1850	20.0	--
131-098-23DAD2	8352A, NDSWC	250	248	242	1	1972	108.00	07/ /1972	U	125CNBL	1760	--	--
131-098-26CCD	CONRAD, M	--	100	90	6	1960	76.00	--	U	125TRVL	1610	10.5	2882
131-098-31DDA	WANEK, M	--	60	60	6	1959	45.00	--	S	125TRVL	500	9.5	2882
131-098-36DAA	HAGEN, P	76	38	--	4	1964	18.00	--	H,S	--	2150	--	--
131-099-02AAA	--	120	--	--	--	--	25.72	--	S	--	--	--	--
131-099-04DAA	SCHUMACHER, D.	--	390	--	6	1961	--	10/22/1981	U	125TGRVL	1780	--	--
131-099-07BBC	SCHUMACHER, D.	51	33	--	4	1972	--	--	H,S	125TRVL	1450	6.8	2771
131-099-10CCC	PECINOVSKY, E.	--	80	--	4	1910	15.00	--	S	--	1450	--	2955
131-099-12BCB	DEUTSCHER, D.	--	60	45	4	1947	60.00	--	H,S	--	1600	--	--
131-099-13ABB1	EIEN, ELMER	315	310	300	--	08/14/1981	40.00	--	H	--	1200	--	2935
131-099-13ABB2	EIEN, ELMER	264	260	254	--	08/14/1981	188.35	09/21/1981	U	125TGRVL	--	--	2880
131-099-17ADD	REIMER, C	200	190	180	--	08/17/1981	181.51	09/21/1981	U	125HRMN	--	--	2952
131-099-18AAA	HENDERSON, M.	--	375	315	--	1950	78.64	08/17/1981	U	125TGRVL	--	--	2952
131-099-20CDC1	PETERSON, VERNON	35	35	--	--	08/12/1980	80.00	--	H	--	1500	--	2845
131-099-20CDC2	FISCHBEIN, DELORES	120	94	84	--	08/04/1981	--	--	U,Z	125HRMN	--	--	2845
131-099-22CCC1	WEBER, J.	112	112	--	--	--	24.11	09/20/1981	U	125HRMN	--	--	2765
131-099-22CCC2	WEBER, J.	390	336	--	4	--	50.00	--	S	125TRVL	2260	--	2768
131-099-22DCC1	USGS	76	76	64	2	09/14/1976	--	--	H	--	1880	10.0	2845
131-099-22DCC2	FLORY, EVELYN	73	--	--	--	06/25/1981	39.71	12/20/1976	U	125TRVL	--	13.0	2845
131-099-22DCC3	FLORY, EVELYN	120	118	108	--	08/13/1981	Z	--	U	--	--	--	2809
131-099-23ABD1	STEINER, LEONARD	212	212	202	--	08/12/1981	22.00	09/21/1981	U	125TGRVL	--	--	2812
							192.80	09/23/1981	U	125TGRVL	--	--	2812
												--	2975

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	SPECIFIC CONDUCTANCE (UMHO/CM AT 25°C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
131-099-23ABD2	STEINER, LEONARD	5	5	--	--	08/12/1981	--		--	U	--	--	--	2975
131-099-23ABD3	STEINER, LEONARD	10	10	--	--	08/12/1981	--		--	U	--	--	--	2975
131-099-23ABD4	STEINER, LEONARD	20	20	--	--	08/12/1981	--		--	U	--	--	--	2975
131-099-23ABD5	STEINER, LEONARD	40	40	--	--	08/12/1981	--		--	U	--	--	--	2975
131-099-23ABD6	STEINER, LEONARD	60	60	--	--	08/12/1981	--		--	U	--	--	--	2975
131-099-23ABD7	STEINER, LEONARD	80	80	--	--	08/12/1981	--		--	U	--	--	--	2975
131-099-23ABD8	STEINER, LEONARD	100	100	--	--	08/12/1981	--		--	U	--	--	--	2837
131-099-23DDC1	STEINER, LEONARD	210	210	200	--	08/04/1981	108.00		09/20/1981	U	125TGRVL	--	--	2837
131-099-23DDC2	STEINER, LEONARD	135	135	120	--	08/04/1981	86.51		08/24/1981	U	125HRMN	--	--	2803
131-099-25CCB	RATH, EMIL	76	76	--	--	08/11/1980	--		--	U,Z	125TGRV	--	--	
131-099-26ADA	USGS	127	120	108	2	09/25/1975	59.05		12/10/1975	U	125TRVL	2900	5.0	2840
131-099-26DDD	USGS	78	76	64	2	09/24/1975	38.59		12/11/1975	U	125TRVL	1500	5.0	2812
131-099-27ADD	KNIFE RIVER	114	112	100	--	08/13/1981	60.00		10/14/1981	U	125TGRVL	1560	7.7	2792
131-099-27BBC1	WEBER, IDA	86	86	76	--	06/27/1981	47.56		10/14/1981	U	125TGRVL	7500	5.4	2784
131-099-27BBC2	WEBER, IDA	130	--	--	--	08/19/1981	--		--	U	--	--	--	2784
131-099-27BBC3	WEBER, IDA	160	160	150	--	08/19/1981	--		--	U	125TGRVL	--	--	2784
131-099-27BBC4	WEBER, IDA	5	5	--	--	08/19/1981	--		--	U	--	--	--	2784
131-099-27BBC5	WEBER, IDA	10	10	--	--	08/19/1981	--		--	U	--	--	--	2784
131-099-27BBC6	WEBER, IDA	20	20	--	--	08/19/1981	--		--	U	--	--	--	2784
131-099-27BBC7	WEBER, IDA	30	30	--	--	08/19/1981	--		--	U	--	--	--	2784
131-099-27BBC8	WEBER, IDA	40	40	--	--	08/19/1981	--		--	U	--	--	--	2784
131-099-27DDD1	USGS	115	112	100	2	05/28/1976	43.45		06/29/1976	U	125TRVL	1580	7.5	2782
131-099-27DDD2	USGS	60	60	58	2	05/28/1976	--		--	U	125TRVL	4600	8.0	2782
131-099-29ADD1	USGS	142	118	100	2	09/23/1975	46.48		12/10/1975	U	125TRVL	2000	4.0	2796
131-099-29ADD2	USGS	80	80	68	2	09/23/1975	46.90		01/20/1976	U	125TRVL	--	--	2796
131-099-29ADD3	USGS	80	80	78	2	05/26/1976	--		--	U	125TRVL	1520	8.0	2796
131-099-29ADD4	REIMER, C	--	--	--	--	08/12/1980	--		--	U,Z	125TGRV	--	--	2796
131-099-29BCC	REIMER, DUANE C	53	53	43	--	06/23/1981	12.48		10/06/1981	U	125TGRVL	1920	8.1	2752
131-099-29CDB1	REIMER, DUANE C	41	41	31	--	06/24/1981	19.06		09/16/1981	U	125HRMN	--	--	2752
131-099-29CDB2	REIMER, DUANE C	63	61	51	--	06/24/1981	18.76		10/06/1981	U	125TGRVL	1950	7.9	2752
131-099-29CDD	REIMER, DUANE C	33	32	22	--	06/23/1981	16.78	Z	10/01/1981	U	125HRMN	10000	6.2	2774
131-099-31BAA	USGS	42	39	33	2	09/23/1975	4.20		01/20/1976	U	125TRVL	3050	6.0	2759
131-099-32BBC1	BATES, GIPSON	120	114	104	--	08/13/1981	5.57		10/14/1981	U	125TGRVL	2510	8.6	2751
131-099-32BBC2	BATES, GIPSON	60	60	53	--	08/13/1981	7.28		10/14/1981	U	125HRMN	2630	7.6	2751
131-099-32DBC	USGS	42	30	24	2	09/23/1975	10.14		12/10/1975	U	125TRVL	2800	5.5	2760
131-099-32DCA	--	65	65	55	--	08/12/1980	--		--	U	125TGRVL	--	--	2756
131-099-33ADA1	PERKINS, ROBERT W	5	--	--	--	06/27/1981	--		--	--	--	--	--	2752
131-099-33ADA2	PERKINS, ROBERT W	43	38	28	--	06/29/1981	--		--	U	125TGRVL	--	--	2752
131-099-33ADA3	PERKINS, ROBERT W	80	76	68	--	08/18/1981	--		--	U	125TGRVL	--	--	2752
131-099-33ADD	PERKINS, ROBERT W	39	38	25	--	06/26/1981	--		--	U	125TGRVL	--	--	2752

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
131-099-33BAA1	USGS	153	150	138	2	09/24/1975	40.77		12/10/1975	U	125TRVL	1850	6.0	2788
131-099-33BAA2	USGS	90	90	78	2	09/24/1975	39.99		12/10/1975	U	125TRVL	3950	6.0	2788
131-099-33BBC	FLATZ, RONALD	170	168	158	--	08/05/1981	75.00		09/24/1981	U	125TGRVL	--	--	2810
131-099-33CCC	NDSWC 4629	100	58	52	1.25	04/24/1974	20.90		06/04/1974	U	125TRVL	3800	7.0	2763
131-099-33DAA	USGS	110	104	92	2	09/24/1975	7.47		12/10/1975	U	125TRVL	5200	4.5	2760
131-099-33DAD	USGS	88	82	70	2	09/24/1975	5.88		12/10/1975	U	125TRVL	8000	5.0	2760
131-099-33DDA	USGS	100	94	88	1.25	10/14/1974	15.40		11/29/1974	U	125TRVL	--	--	2760
131-099-33DDD1	KNIFE RIVER	3	--	--	--	06/26/1981		U	--	--	--	--	--	2786
131-099-33DDD2	KNIFE RIVER	28	--	--	--	06/26/1981		U	--	--	--	--	--	2786
131-099-33DDD3	KNIFE RIVER	3	--	--	--	06/26/1981		U	--	--	--	--	--	2786
131-099-33DDD4	KNIFE RIVER	53	52	42	--	06/26/1981	--		--	U	125TGRVL	--	--	2786
131-099-33DDD5	KNIFE RIVER	35	--	--	--	08/03/1981		G	--	U	--	--	--	2788
131-099-33DDD6	KNIFE RIVER	68	65	55	--	08/03/1981	28.60		08/03/1981	U	125TGRVL	--	--	2789
131-099-33DDD7	KNIFE RIVER	20	20	--	--	08/03/1981	--		--	U	125TGRVL	--	--	2790
131-099-33DDD8	KNIFE RIVER	10	10	--	--	08/03/1981	--		--	U	125TGRVL	--	--	2790
131-099-33DDD9	KNIFE RIVER	5	5	--	--	08/03/1981	--		--	U	125TGRVL	--	--	2790
131-099-34ACB	KNIFE RIVER	120	114	104	--	08/18/1981	12.73		10/07/1981	U	125TGRVL	3070	7.8	2752
131-099-34ACC1	USGS	120	114	108	1.25	10/14/1974	11.75		11/29/1974	U	125TRVL	3100	7.0	2752
131-099-34ACC2	USGS	40	40	38	2	05/28/1976	--		--	U	125TRVL	3800	7.0	2752
131-099-34ADD1	KNIFE RIVER	100	100	90	--	08/18/1981	15.00		10/07/1981	U	125TGRVL	2100	7.0	2751
131-099-34ADD2	KNIFE RIVER	280	260	250	--	08/19/1981	63.72		10/08/1981	U	125TGRVL	--	7.8	2751
131-099-34BA	USGS	35	35	33	2	05/28/1976	--		--	U	125TRVL	2400	9.0	--
131-099-34BCA	USGS	100	98	92	1.25	10/14/1974	23.13		11/29/1974	U	125TRVL	--	5.0	2762
131-099-34DAA	MDU	1363	1254	--	4	1973	166.00		--	N	--	--	--	2760
131-099-35DCC1	KNOLL, WYNONAH	30	--	--	--	06/16/1981		D	--	Z	125HRMN	--	--	2792
131-099-35DCC2	KNOLL, WYNUNAH	170	165	155	--	08/05/1981	53.00		08/05/1981	U	125TGRVL	--	--	2792
131-100-09CCD	FREITAG, A.	1068	1068	--	4	1964	235.00		--	H	211HCFH	1730	14.0	2845
131-100-12BBB	FREYMILLER, D.	--	90	--	6	--	--		--	S	--	2350	--	--
131-100-17BAB	FISHER, WILLIAM	60	45	25	4.50	02/01/1973	5.50		02/01/1973	S	--	--	--	--
131-100-17DDD1	KROMAREK, PETER	140	140	120	4	04/29/1973	90.00		04/29/1973	H	--	--	--	--
131-100-17DDD2	KROMAREK, PETER	980	980	930	2.50	06/30/1978	205.00		06/30/1978	H	--	1750	13.0	--
131-100-22DDA	FISHER, K.	--	160	--	4	--	20.00		--	S	--	1400	--	2800
131-100-23DAD	PAULSON, F.	123	--	--	4	1966	30.00		--	H	--	--	--	--
131-100-23DBA	SCRANTON	--	1180	--	--	1936	--		--	P	211HCFH	1660	19.5	--
131-100-23DBB	REIGER, R.	124	--	--	4	1960	--		--	U	--	--	--	--
131-100-24ABA	CARON, JEROME	106	106	86	4	10/25/1977	60.00		10/25/1977	S	125FRUN	2590	9.5	--
131-100-24ABB	CARON, J.	100	71	--	4	1958	50.00		--	H,S	125TRVL	1050	--	--
131-100-26ABA	SCRANTON	1205	1193	1030	--	1969	--		--	P	211HCFH	1870	6.1	2774
131-100-29AAA	STEINER, L.	193	176	--	4	1972	40.00		--	H,S	--	1650	--	--
131-100-29BBB1	4459, NDSWC	440	376	364	2	1972	128.00		08/ /1972	U	125LDLW	1680	11.0	2950

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	SPECIFIC CONDUCTANCE (UMHO/CM AT 25 C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
131-100-29BBB2	4459A, NDSWC	230	228	222	1	1972	18.00	08/ /1972	U	--	2030	10.0	2950
131-100-29BBD	STEINER, LARRY	40	32	32	5	06/12/1979	3.00	06/12/1979	S	--	--	--	--
131-100-31BBB	BROWN, G.	--	550	45	4	1947	125.00	--	H,S	125LDLW	922	8.0	2940
131-102-01DBB	ROEN, L.	903	865	--	4	1972	323.00	--	S	--	1650	--	3005
131-102-02DDA	BOWMAN, ND	1075	1067	965	8	1961	359.00	05/ /1971	P	211HCFH	1710	19.0	3023
132-100-09BBB1	DEMUTTE, F.	--	50	--	4	1912	--	--	H,S	--	1200	--	--
132-100-09BBB2	DE MOTTE, FRANK	82	70	50	5	12/19/1979	15.00	12/19/1979	U	--	--	--	--
132-100-09BBB3	DE MOTT, FRANK	100	100	96	10.75	04/13/1981	16.00	04/13/1981	H	--	1090	10.5	--
132-100-10CDD	PIERCE, O.	--	130	--	6	1952	60.00	--	H	--	2300	--	--
132-100-14ADB	PIERCE, R.	60	51	--	4	1958	20.00	--	S	125TRVL	2280	9.0	--
132-100-18DDC	MOOK, M.	--	83	73	6	1948	40.00	--	H	--	2300	--	--
132-100-22CBB1	PIERCE, K.	--	30	--	--	--	--	--	S	--	4000	--	--
132-100-22CBB2	PIERCE, K.	--	90	--	--	--	10.00	--	H	--	1810	--	--
132-100-32CCD	FREYMILLER, M.	--	67	--	6	1960	--	--	H,S	--	1800	--	2880
132-100-35DDD	FREITAG, K.	--	1200	1050	--	1955	281.00	09/ /1970	H	211HCFH	1810	12.0	2904
132-101-08CAA	SCHOBER, P.	44	44	44	18	1940	36.00	--	S	--	1800	9.0	--
132-101-10DDD	4460, NDSWC	360	264	252	2	1972	74.00	08/ /1972	U	125TRVL	1750	10.0	2925
132-101-12BB	WEGNER, 1-32	5450	--	--	--	1968	--	--	U	--	--	--	2932
132-101-14CCC	4392, NDSWC	600	411	399	2	1971	53.00	10/ /1971	U	125LDLW	1450	10.5	2886
132-101-12DDD	WEGNER, G.	45	45	44	16	1951	--	--	H	--	2200	12.0	--
132-101-14AAA	DINGFELDER, C.	--	30	30	12	1968	--	--	H	--	1900	7.0	--
132-101-15DA	FREITAG, M.	--	36	36	12	1951	--	--	S	--	1700	--	--
132-101-18ABB	USGS	170	165	159	2	05/18/1976	138.75	09/07/1976	U	--	--	--	3055
132-101-18BAA	STURER, VERA	200	200	--	5	06/25/1974	18.00	06/25/1974	S	--	2640	15.0	--
132-101-21CBB	STEBBINS, EMERY	385	385	345	5	1978	115.00	--	S	--	2340	10.5	--
132-101-27CCC	BREWER, WILBUR	1145	1145	1125	4.50	09/25/1974	--	--	S	--	1920	15.0	--
132-101-28BDC	SILHA, R.	240	230	220	5	1970	103.00	05/ /1971	H	125LDLW	2200	--	2951
132-101-30DDD	ROEN, R.	--	280	280	5	1967	145.00	05/ /1971	H	125LDLW	1760	10.0	2995
132-101-31BBB	ROEN, ROBERT	80	34	34	4.50	05/24/1973	--	--	S	--	--	--	--
132-101-32BB	1-48, L.RUEN	--	--	--	--	1968	--	--	U	--	--	--	2950
132-101-35AA	1-9-9, BREWER	5297	--	--	--	1968	--	--	U	--	--	--	2990
132-102-07BC	OIEN 1-1-2-X	5385	--	--	--	1968	24.00	--	U	--	--	--	2971
132-102-09AA	MOSBRUCKER, 1-47	--	--	--	--	1968	--	--	U	--	--	--	2935
132-102-09DDD1	OVERLAND, O.	--	300	300	6	1952	75.00	--	H	125LDLW	2080	--	2949
132-102-09DDD2	OVERLAND, O.	--	200	200	5	1954	75.00	--	S	--	1700	6.0	2949
132-102-10BBB	SCHABE, E.	--	425	--	4	1950	140.00	--	H	--	2600	--	2985
132-102-12AAA	ANDREWS, R.	60	42	50	--	1970	28.00	--	H	--	--	--	--
132-102-12CCC	KERR, E.	--	40	40	24	1942	28.00	--	S	125TRVL	4120	7.5	--
132-102-13CA	THUAX-TRAER 1	6188	--	--	--	1954	--	--	S	--	--	--	3061
132-102-13CDD	KERR, L.	150	150	146	4	1968	90.00	--	S	--	5300	10.0	--

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	SPECIFIC CONDUCTANCE (UMHO/CM AT 25°C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
132-102-18ADD	OVERLAND, A.	126	84	84	11	1961	70.00		--	S	--	--	--	--
132-102-18BAA	SCHADE, G.	332	261	261	5	1961	60.00		--	H	125LDLW	2450	--	2961
132-102-20BDD	SOREIDE, O.	230	160	160	6	1960	140.00		--	S	--	1550	--	--
132-102-21DAA	RUGGLES, W.	63	18	--	11	1960	11.00		--	S	--	2100	6.0	--
132-102-22CBB1	SCHADE, J.	61	46	--	--	--	--		--	U	--	--	--	--
132-102-22CBB2	BLOOMGREN, ERNEST	288	288	226	5	01/07/1977	85.00		01/07/1977	S,H	--	--	--	--
132-102-22DBB	SCHADE, D.	--	60	48	4	1970	55.00		--	H	--	1100	--	--
132-102-23AD	CONSOL.COAL 1	4875	--	--	--	1968	--		--	U	--	--	--	--
132-102-24BBB1	NDSWC 4461	580	565	553	2	1972	198.00		08/ /1972	U	125LDLW	1620	12.0	2984
132-102-24BBB2	NDSWC 4461A	380	376	364	2	--	196.00		08/01/1972	--	--	1650	12.0	3040
132-102-24BBB3	NDSWC 4461B	120	117	102	1	1972	80.00		08/ /1972	U	125TRVL	562	9.5	3040
132-102-26DDD	BURDETTE, R.	--	75	75	18	1961	25.00		--	S	--	750	7.0	--
132-102-28AAA	ELDRINGHUFF, D.	--	55	55	24	1946	20.00		--	S	125TRVL	1500	10.0	--
132-102-29CAA	SOREIDE, J.	315	--	274	6	1959	150.00		--	S	--	--	--	3031
132-102-32DBB	SOREIDE, J.	--	280	280	6	1948	110.00		--	S	125LDLW	1860	8.0	3000
132-102-34CCC	HYKE, P.	60	55	55	--	--	47.00		--	H	--	1700	--	--
132-102-34DCC	MOSEBRUCKER, P.	45	45	15	6	1955	20.00		--	H	--	750	--	--
132-103-15AD	BENNETT 1-41	--	--	--	--	1968	--		--	U	--	--	--	3037
132-103-22BDD	BEYER, D.	--	96	--	18	--	--		--	H	--	2300	--	--
132-103-25DD	1-10-17, SCHADE	3037	--	--	--	1968	--		--	U	--	--	--	3039
132-103-26DCC	SODERSTROM, E.	98	57	--	--	--	36.00		--	U	--	--	--	--
132-103-27BDD	ROLFSNESS, O.	--	30	30	18	1952	15.00		--	H	--	2700	--	--
132-103-35DCC	SODERSTROM, S.	412	--	--	--	1963	--		--	H	--	--	--	--
133-099-04BCB	MISTLEBERGER, LEO	95	--	--	--	01/01/1930	--		--	S	--	2290	10.5	3150
133-099-06CC	SWANSON, 1-54	5415	--	--	--	10/11/1968	--		--	--	125TRVL	--	--	--
133-099-19DD	DILSE, 1-45	5370	--	--	--	09/22/1968	--		--	U	--	--	--	--
133-099-20ADA	FLATZ, HAZEL	215	210	--	4	1963	91.00		1965	S,H	125TRVL	1830	--	2862
133-099-30CA	DILSE, 1-50	5360	--	--	--	10/13/1968	--		--	U	--	2510	13.0	2871
133-099-32BBA	DILSE, FRANK	1252	1252	--	--	06/30/1972	251.00		08/24/1974	S,H	211MDFH	--	--	3003
133-100-08ADA	OLSON, RUSSEL	103	74	--	4.50	09/ /1973	65.00		09/ /1973	S,H	125TRVL	1830	15.0	2970
133-100-19AD	BRAUN, 1-16-15	5479	--	--	--	08/03/1968	--		--	--	--	600	15.0	--
133-101-06DBB	BROOKS, WAYNE	1220	1220	1170	2.50	11/04/1978	--		--	S	--	510	9.0	2915
133-101-08CBA	BROOKS, EUGENE	80	45	25	4	1974	20.00		1974	S	125TRVL	--	14.0	2980
133-101-09CDD	USGS	82	64	--	--	06/04/1976	--		--	--	125TRVL	--	--	--
133-101-11DCC	NDSWC 4905	220	--	--	--	05/18/1976	--		--	--	--	--	--	2933
133-101-15BAA	USGS	112	--	--	--	06/04/1976	--		--	--	--	--	--	2920
133-101-15DCD	USGS	112	104	98	2	06/07/1976	44.66	R	11/09/1976	U	125TGRV	--	--	--
133-101-16BBC	BROOKS, HAROLD	105	94	72	4.50	06/01/1972	35.00		06/01/1972	S	125TRVL	2300	9.0	2897
133-101-17ABB	USGS	77	65	53	2	06/08/1976	25.84	R	11/09/1976	U	125TRVL	4000	13.0	2940
133-101-19DCC	USGS	112	101	--	--	06/03/1976	--		--	--	125TRVL			

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	SPECIFIC CONDUCTANCE (uMHO/CM AT 25° C)	TEMPERATURE (DEGREES C)	ALTITUDE OF LAND SURFACE (FEET)
133-101-20BCC	HANSON, MAURICE	1275	1100	1088	4.50	12/19/1979	--	--	H,S	--	1910	16.0	--
133-101-28ABB	USGS	77	--	--	--	06/03/1976	--	--	--	--	--	--	2925
133-101-28DDB	FOLSKE, ROBERT	--	--	100	--	08/02/1977	55.00	08/02/1977	S	--	--	--	--
133-101-29ABB	USGS	52	--	--	--	06/03/1976	--	--	--	--	--	--	2890
133-101-30BBB	FOLSKE, ROBERT	280	260	--	4	05/17/1973	90.00	05/17/1973	S	125TRVL	--	--	--
133-101-32AD	CONSOLIDATED, COAL 1-32	5425	--	--	--	09/03/1968	--	--	--	--	--	--	2961
133-101-34DAA	FREITAG, GERALD	420	407	365	1.25	01/29/1974	70.00	01/29/1974	H,S	125TRVL	2420	10.5	--
133-101-35DDB	FREITAG, GERALD	640	599	--	4.50	10/05/1972	190.00	10/05/1972	S	125LMCK	--	--	2965
133-102-10DDA	BURKE, DONALD	1260	1031	1031	4.50	02/02/1977	240.00	02/02/1977	S,H	--	1340	17.0	--
133-102-14BCC	BURKE, HENRY	146	146	136	5	09/28/1977	90.00	09/28/1977	S	--	2000	10.0	--
134-100-07AUD	NDSWC 5142A	313	304	298	--	07/08/1977	--	--	U	125TRVL	1900	10.0	2935
134-101-04DUD	NDSWC 4906	220	--	--	--	05/19/1976	--	--	--	--	--	--	2905
135-101-26BAA	KATHREIN, JACK	1280	1082	--	4	10/18/1966	342.00	10/18/1966	S,H	125LMCK	--	--	2929
135-101-32BAA	USGS	92	--	--	--	05/19/1976	--	--	--	--	--	--	2775
135-101-33CBC	USGS	97	--	--	--	06/07/1976	--	--	--	--	--	--	2780
135-101-15ACC	JJJ RANCH	300	298	208	4.50	07/28/1972	120.00	07/28/1972	S	--	--	--	--
135-101-16CBA	JJJ RANCH	180	167	98	4.50	07/26/1972	80.00	07/26/1972	S	125SNLB	2050	11.0	--

218 (OVERSIZE FIGURE)

TABLE 11.--Logs of wells and test holes in the Bowman-Gascoyne coal area.

130-099-12ADD
(Log modified from H & H Service Co.)
Date drilled: 03/11/74

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Surface	30	30
Ledge	1	31
Shale	2	33
Coal	2	35
Shale	267	302
Ledge and coal	3	305
Shale	91	396
Rock ledge, hard	2	398
Shale	72	470
Sand, gray, fine	22	492
Shale	8	500

130-100-13CBC
(Log modified from Knutson Well Drilling)
Date drilled: 10/13/80

Sandy	16	16
Clay	34	50
Coal and clay	14	64
Clay, sandy	13	77
Clay	45	122
Sand, fine, clayey	30	152
Clay	25	177
Sand, fine, clayey	23	200

131-100-17BAB
(Log modified from H & H Service Co.)
Date drilled: 02/01/73

Surface and sandstone ledge	3	3
Sand, yellow	42	45
Shale ledge, hard	1	46
Sand, blue	10	56
Shale, blue, sandy	4	60

131-100-17DDD1
(Log modified from Knutson Well Drilling)
Date drilled: 04/29/73

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Gravel	5	5
Clay, sandy	5	10
Coal, soft	4	14
Clay	46	60
Sandy	10	70
Coal	4	74
Clay	8	82
Sandy	5	87
Coal	6	93
Clay	27	120
Sandy	10	130
Coal	2	132
Clay, sandy	8	140

131-100-17DDD2
(Log modified from Knutson Well Drilling)
Date drilled: 06/30/78

Clay	31	31
Coal	2	33
Shale	48	81
Coal	5	86
Shale	39	125
Sandy	6	131
Coal	3	134
Clay and shale	22	156
Coal	2	158
Clay, sandy	42	200
Rock	2	202
Clay and sandy clay	115	317
Rock	1	318
Clay and sandy clay; with coal	93	411
Rock	1	412
Clay, sandy and shale	148	560
Clay and shale; with coal	215	775
Clay, sandy	11	786
Clay and shale	69	855
Clay, sandy	17	872
Shale and clay	13	885
Clay, sandy	45	930
Sand, coarse and sandy clay	50	980

131-100-24ABA
(Log modified from Knutson Well Drilling)
Date drilled: 10/25/77

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay	10	10
Sandy, yellow	20	30
Clay	3	33
Sandy	6	39
Clay	2	41
Sandy	6	47
Clay	36	83
Coal	20	103
Clay	3	106

131-100-29BBD
(Log modified from Water Supply Inc.)
Date drilled: 06/12/79

Sand, fine to medium	7	7
Clay, yellowish-brown, sandy to silty	12	19
Clay, olive-gray, sandy, silty	14	33
Sand, fine to medium, loose	7	40

132-100-09BBB2
(Log modified from H & H Service Co.)
Date drilled: 12/19/79

Sand, coarse	6	6
Gravel	2	8
Sand, coarse	10	18
Clay	28	46
Coal	1	47
Clay	35	82

132-100-09BBB3
(Log modified from H & H Service Co.)
Date drilled: 04/13/81

Sand, coarse	6	6
Gravel and sand	12	18
Clay	3	21
Clay, very sandy	46	67
Rock	2	69
Clay	31	100

132-101-18BAA
(Log modified from H & H Service Co.)
Date drilled: 06/25/74

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Clay to sand	26	26
Sand, blue	7	33
Shale	2	35
Coal	10	45
Shale	7	52
Sand, gray	6	58
Shale	11	69
Coal	2	71
Shale	8	79
Coal	3	82
Shale	28	110
Coal	9	119
Shale	26	145
Coal	21	166
Shale	24	190
Coal	10	200

132-101-21CBB
(Log modified from H & H Service Co.)
Date drilled: / /78

Topsoil	1	1
Clay, sandy	4	5
Coal	2	7
Clay	44	51
Rock	1	52
Silty	2	54
Rock	1	55
Sand, silty	15	70
Coal	1	71
Clay	3	74
Coal	11	85
Clay	5	90
Coal	1	91
Clay	31	122
Coal	1	123
Silty, soft	12	135
Coal	2	137
Clay	186	323
Sand	62	385

132-101-27CCC
(Log modified from H & H Service Co.)
Date drilled: 09/25/74

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Sand to shale	38	38
Coal	3	41
Shale to sandy shale	17	58
Coal	7	65
Shale	22	87
Sand, gray, fine	58	145
Shale	12	157
Sand	4	161
Shale	5	166
Sand	44	210
Shale to sandy shale	125	335
Sand, blue, fine	20	355
Shale, ledge	2	357
Sand, blue, fine	11	368
Shale	10	378
Sand, gray, fine	40	418
Shale; with occasional ledge	220	638
Sand, gray, fine	37	675
Sand	12	687
Shale	210	897
Sand, blue	30	927
Sand	6	933
Shale; with sand streaks	145	1078
Sand, blue; with ledge at 1092 feet	38	1116
Ledge	4	1120
Sand, blue, medium	20	1140
Shale	5	1145

132-101-31BBB
(Log modified from H & H Service Co.)
Date drilled: 05/24/73

Surface to sand	22	22
Sand, brown	10	32
Sandstone	2	34
Coal	1	35
Sand, blue	3	38
Coal	1	39
Sand, blue	9	48
Coal	1	49
Sand, blue	9	58
Coal	1	59
Sand	3	62
Coal	1	63
Shale	2	65
Ledge	2	67
Shale	13	80

132-102-22CBB2
(Log modified from Dependable Drilling Co.)
Date drilled: 01/07/77

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Surface	4	4
Clay, tan	19	23
Clay, gray; with coal	59	82
Clay, green, sandy	66	148
Rock ledge	1	149
Clay, gray	29	178
Sand, gray, fine	15	193
Clay, gray	31	224
Sand, fine	64	288

133-101-06DBB
(Log modified from Kruger Drilling Co.)
Date drilled: 11/04/78

Clay	435	435
Sand, fine	40	475
Clay	85	560
Sand	20	580
Clay	170	750
Sandy	10	760
Coal	20	780
Sand	20	800
Clay	115	915
Sand	25	940
Clay	90	1030
Sand	30	1060
Clay	10	1070
Sandy	40	1110
Clay	15	1125
Sandstone	5	1130
Clay	30	1160
Sand	60	1220

133-101-20BCC
(Log modified from H & H Service Co.)
Date drilled: 12/19/79

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Surface to coal to clay to sand----------	150	150
Clay, sandy to clay----------	50	200
Clay; with coal and rock stringers----------	382	582
Coal----------	12	594
Clay to sandy clay to coal stringers--------	406	1000
Sand to sandy clay to coal stringers--------	90	1090
Coal----------	4	1094
Shale to sandy shale----------	4	1098
Sand; with shale stringers----------	36	1134
Shale to sandy shale----------	18	1152
Sand to sandy shale----------	48	1200
Sand; with shale stringers----------	24	1224
Shale and sandy shale----------	6	1230
Sand; with shale stringers----------	20	1250
Sandy shale to tight shale----------	25	1275

133-101-28DDB
(Log modified from Kruger Drilling Co.)
Date drilled: 08/02/77

Clay----------	60	60
Clay, sandy----------	10	70
Clay----------	10	80
Coal----------	30	110

133-101-34DAA
(Log modified from H & H Service Co.)
Date drilled: 01/29/74

Surface----------	25	25
Coal----------	10	35
Shale----------	17	52
Coal----------	5	57
Shale to sandy shale----------	95	152
Sand, very fine----------	8	160
Shale to sandy shale; with occasional ledge-	200	360
Sand, fine----------	30	390
Shale----------	30	420

133-102-10DDA
(Log modified from H & H Service Co.)
Date drilled: 02/02/77

MATERIAL	THICKNESS (FEET)	DEPTH (FEET)
Surface	22	22
Coal	8	30
Clay; with rock and coal ledges	207	237
Sand, very fine to fine	65	302
Clay; with ledges	98	400
Shale, sandy, soft	69	469
Coal	1	470
Sand, very fine	59	529
Clay; with coal lenses	91	620
Sand, blue	50	670
Sand; with ledges and coal	57	727
Clay; with ledges and coal	136	863
Sand, blue	12	875
Clay; with sand stringers and rock ledges	156	1031
Sand, coarse	9	1040
Clay	2	1042
Sand	24	1066
Clay	12	1078
Clay; with sand and rock stringers	89	1167
Sand, gray, fine	23	1190
Clay; with rock ledges and sand stringers; very fine sand returns at T.D.	70	1260

133-102-14BCC
(Log modified from Kruger Drilling Co.)
Date drilled: 09/28/77

Sandy	3	3
Scoria	14	17
Clay	46	63
Coal	29	92
Clay	8	100
Sand	40	140
Coal	6	146

227 (OVERSIZE FIGURE)

TABLE 12.--Chemical analysis of selected wells in the Bowman-Gascoyne coal area.

Principal aquifer

125, Palocene
211, Upper Cretaceous

CNBL, Cannonball Member of Fort Union Formation
FRUN, Fort Union Formation
HCFH, Hell Creek Formation-Fox Hills Sandstone
LDLW, Ludlow Member of Fort Union Formation
LHCK, Ludlow Member of Fort Union Formation-Hell Creek Formation
TRVL, Tongue River-Ludlow Members of Fort Union Formation

Specific conductance

Value shown is the field specific conductance measured at the well at the time of inventory.

LOCAL IDENTIFIER	GEOLOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	SPECIFIC CONDUCTANCE (UMHO/CM AT 25°C)	PH (UNITS)	TEMPERATURE (DEG C)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	BORON, DISSOLVED (UG/L AS B)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)
130-098-04CBB	125TRVL	95	79-06-30	1140	7.7	--	270	0	59	31	160	54	4.2	11	411	0	270	4.5	.5	6.4	766	--	900	0	30
130-098-04DBB	211MCFM	1274	71-10-11	1730	8.2	24.0	15	0	3.4	1.6	420	98	47	1.9	897	0	11	129	4.8	12	1040	--	1500	0	10
130-098-04DCC	211MCFM	1200	70-07-23	1760	8.2	19.5	11	0	2.0	1.5	440	99	57	1.1	892	4	4.1	138	4.6	11	1050	--	1400	140	10
130-098-17DAA	125LDLW	296	71-06-30	1940	8.4	10.2	51	0	8.3	7.4	480	95	29	2.1	877	15	300	6.8	7.6	8.2	1140	--	1000	830	20
130-098-21CCC1	125LMCK	411	71-10-22	1760	8.6	10.0	13	0	4.1	.7	470	99	56	1.5	989	38	130	12	6.5	8.5	1160	--	1400	320	30
130-098-21CCC2	125LDLW	196	71-11-08	1590	8.6	8.5	29	0	4.5	4.4	400	96	33	2.3	952	31	66	17	8.4	4.6	992	--	1100	0	30
130-099-15BCC	--	--	70-07-13	712	7.9	11.0	150	0	31	18	100	58	3.6	5.3	362	0	79	3.5	1.6	11	455	--	30	120	10
130-099-17AAA1	125LMCK	546	72-06-29	1610	8.7	11.0	65	0	15	6.7	400	93	22	2.5	719	40	220	4.6	6.7	7.6	1020	--	710	220	10
130-100-02AAA	125LMCK	418	72-07-05	1580	8.8	11.5	64	0	11	8.4	400	93	22	1.7	696	41	250	4.4	5.3	5.8	1080	--	890	180	30
130-100-02DDA2	125TRVL	129	70-08-18	2810	8.2	10.0	74	0	18	7.1	650	95	33	3.6	722	0	870	11	5.8	7.9	1950	--	730	400	20
130-100-20DAB	125LDLW	270	70-08-18	960	8.3	9.0	250	0	45	35	120	51	3.3	4.0	462	6	110	17	1.6	9.2	587	--	190	60	10
131-098-01BCCA	125TRVL	81	71-06-15	1580	8.0	--	82	0	17	9.6	340	89	16	5.8	439	0	460	6.3	1.0	7.5	1040	--	1800	70	80
131-098-07BCC	125CNBL	352	71-06-15	1440	8.5	9.5	52	0	7.9	7.9	380	94	23	2.6	861	18	85	17	5.9	4.9	935	--	840	530	20
131-098-08CDD	125TRVL	170	71-06-15	2030	7.4	--	760	30	134	102	230	39	3.6	16	884	0	540	8.1	.1	15	1470	--	1900	--	--
131-098-23DAD1	125CNBL	356	72-06-21	1760	8.6	10.5	100	0	19	16	430	89	18	1.9	642	24	430	1.1	3.5	9.6	1260	--	680	40	20
131-099-04DAA	125TRVL	390	71-04-14	1450	8.3	--	37	0	6.8	4.9	360	95	26	1.5	767	12	150	6.3	3.4	9.2	953	--	1200	1700	30
131-099-22CCC1	125TRVL	112	70-06-12	2260	8.1	10.0	32	0	7.2	3.4	520	97	40	5.6	601	0	670	5.6	4.2	7.4	1470	--	770	1600	40
131-100-09CCD	211MCFM	1068	70-08-14	1730	8.2	14.0	12	0	2.1	1.7	420	99	52	1.0	783	0	210	44	6.2	13	1090	--	1000	240	10
131-100-23DBA	211MCFM	1180	70-07-20	1660	8.2	19.5	7	0	2.2	.2	420	99	68	1.0	789	3	180	35	3.8	12	997	--	1300	300	10
131-100-24ABA	125FRUN	106	82-06-15	2590	7.3	9.5	210	--	43	26	430	81	13	9.5	--	--	750	6.9	.5	9.1	1500	--	1000	150	110
131-100-24ABB	125TRVL	71	70-08-14	1050	8.2	--	120	0	25	15	200	76	7.7	7.0	454	0	190	2.7	2.5	9.4	643	--	630	100	50
131-100-26ABA	211MCFM	1195	72-02-24	1870	8.8	6.1	19	0	3.6	2.4	440	98	43	1.7	782	45	93	120	3.0	11	1080	--	2000	420	20
131-100-29BBB1	125LDLW	376	72-07-11	1680	8.4	11.0	39	0	9.0	3.9	420	96	30	1.9	767	17	280	5.0	6.8	13	1120	--	1100	620	30
131-100-29BBD	--	32	79-08-17	--	--	--	360	--	72	44	74	31	1.7	7.8	--	--	--	--	--	--	720	--	--	1	0
131-100-31BBB	125LDLW	550	71-06-04	922	8.0	--	14	0	3.1	1.6	220	97	26	1.3	509	0	83	1.9	.5	9.3	573	--	450	50	10
131-102-02DDA	211MCFM	1067	70-07-28	1710	8.4	19.0	3	0	1.2	.0	410	100	100	1.1	743	11	240	26	2.3	13	1080	--	600	80	10
132-100-14ADB	125TRVL	51	70-06-14	2280	8.3	9.0	120	0	32	11	500	89	20	4.9	634	6	670	3.6	2.3	7.5	1500	--	300	180	20
132-100-35DDD	211MCFM	1200	70-08-18	1810	8.2	--	15	0	4.1	1.2	450	98	50	1.3	908	0	180	37	4.0	12	1130	--	1100	0	10
132-101-10DDD	125TRVL	264	72-07-12	1750	8.3	10.0	51	0	9.0	6.9	430	94	26	5.0	629	7	430	9.2	2.5	8.0	1630	--	1100	1100	30
132-101-12CCC	125LDLW	411	71-11-16	1450	8.7	10.5	57	0	13	6.0	350	93	20	.6	559	35	260	14	1.3	9.0	935	--	750	440	20
132-101-28BDC	125LDLW	230	71-05-05	2200	7.6	--	210	0	53	20	460	82	14	4.2	772	0	580	3.5	.7	14	1420	--	730	4200	70
132-101-30DDD	125LDLW	280	71-05-06	1780	8.9	10.0	15	0	3.8	1.3	400	98	45	1.6	457	30	480	4.1	.6	7.9	1130	--	520	420	20
132-102-09DDD1	125LDLW	300	71-05-11	2080	8.5	--	23	0	5.4	2.3	480	98	14	1.5	538	8	630	3.4	.1	8.4	1350	--	420	440	20
132-102-12CCC	125TRVL	40	71-05-12	4120	6.6	7.5	2500	2100	570	259	230	67	2.0	6.0	419	0	2300	44	.2	19	4230	--	730	680	200
132-102-18BAA	125LDLW	261	71-05-10	2430	8.6	--	21	0	4.3	2.6	560	98	17	1.4	492	14	800	3.6	.4	8.5	1630	--	660	360	20
132-102-24BBB1	125LDLW	565	72-07-12	1620	8.4	12.0	76	0	11	12	430	92	21	1.9	1020	28	54	4.2	8.6	11	1060	--	1100	500	50
132-102-28AAA	125TRVL	55	73-06-05	1500	--	10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	125TRVL	55	73-06-05	1730	7.7	10.0	820	350	82	150	43	10	.7	14	580	0	130	88	.2	12	1140	--	360	50	--
132-102-32DBB	125LDLW	280	71-05-14	1860	8.8	8.0	13	0	3.7	1.0	450	98	16	2.0	457	28	500	4.4	.2	7.5	1230	--	450	1000	30
133-099-20ADA	125TRVL	210	75-06-04	2290	8.3	10.5	28	0	7.7	2.2	530	97	43	2.3	588	7	640	11	.4	7.6	1520	.23	340	1300	40
133-099-32BBA	211MCFM	1252	74-08-28	1830	8.7	--	16	0	2.3	2.6	450	98	48	1.2	830	30	180	64	3.2	9.3	1160	.59	1300	410	40
133-100-08ADA	125TRVL	74	75-06-03	2510	8.1	13.0	87	0	20	9.0	580	93	27	4.5	884	0	630	3.6	.2	16	1720	.23	430	80	60
133-101-06DBB	--	1220	82-08-11	1830	8.6	15.0	4	--	1.3	.1	450	99	105	1.3	--	--	270	20	2.4	13	1160	--	1100	60	200
133-101-08CBA	125TRVL	45	75-06-03	600	7.7	9.0	230	0	56	22	45	30	1.3	1.8	331	0	58	5.4	.2	9.8	379	.23	280	230	120
133-101-09CDD	125TRVL	64	76-06-30	510	7.5	14.0	220	0	61	16	40	28	1.2	2.6	351	0	24	1.4	.5	12	270	--	110	<10	150
133-101-17ABB	125TRVL	65	76-06-29	2300	7.4	9.0	490	0	110	52	440	66	8.7	6.8	624	0	850	7.7	.3	10	1810	--	620	<10	290
	125TRVL	65	79-07-19	2100	8.1	8.5	490	31	110	52	420	65	8.3	6.1	--	--	870	6.4	.2	9.4	--	--	550	20	240
	125TRVL	65	79-07-19	2280	7.4	11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	125TRVL	65	80-06-17	2500	8.1	8.5	490	31	110	52	420	65	8.3	6.5	--	--	850	5.6	.2	10	--	--	570	0	230
	125TRVL	65	80-06-17	2500	7.6	11.5	490	0	110	51	410	64	8.1	6.3	--	--	860	5.6	.2	9.9	--	--	590	30	220
	125TRVL	65	81-07-14	2500	8.2	9.0	420	--	85	51	420	68	8.9	5.2	--	--	840	6.5	.2	10	1760	--	530	30	210
	125TRVL	65	81-07-14	2450	7.7	12.0	440	--	87	53	420	67	8.8	5.1	--	--	890	6.7	.2	10	1750	--	610	40	210
133-101-19DCC	125TRVL	101	76-06-30	4000	7.6	13.0	200	0	40	25	1000	91	31	12	1100	0	1500	7.6	.4	16	3300	--	1300	20	130
	125TRVL	101	79-07-17	4200	8.8	13.0	310	0	63	36	930	92	23	13	--	--	1700	5.9	.1	17	--	--	1300	30	80
	125TRVL	101	79-07-19	4400	7.8	14.0	300	0	69	30	1100	88	28	14	--	--	1800	6.1	.2	17	--	--	1200	20	130
	125TRVL	101	80-06-17	4900	8.6	12.0	350	0	66	44	1000	86	23	15	--	--	1700	5.0	.2	17	--	--	1500	20	140
	125TRVL	101	80-06-17	4900	7.4	15.5	350	0	68	44	1000	85	23	15	--	--	1700	4.1	.2	17	--	--	1600	100	160
	125TRVL	101	81-07-14	5500	8.7	10.5	200	--	28	31	1200	92	37	12	--	--	1900	14	.1	16	3590	--	1300	70	110
	125TRVL	101	81-07-14	5500	8.5	12.0	200	--	29	32	1000	91	30	12	--	--	1700	8.0	.1	16	3420	--	1400	60	110
133-102-14BCC	--	--	82-08-11	2000	7.0	10.0	460	--	97	54	330	60	6.7	6.5	--	--	680	2.8	.2	13	1450	--	810	760	330
134-100-07ADD2	125TRVL	304	77-09-08	1900	8.6	10.0	39	0	7.8	4.7	460	96	32	1.1	572	9	530	4.4	.6	5.7	1320	.23	190	260	<10

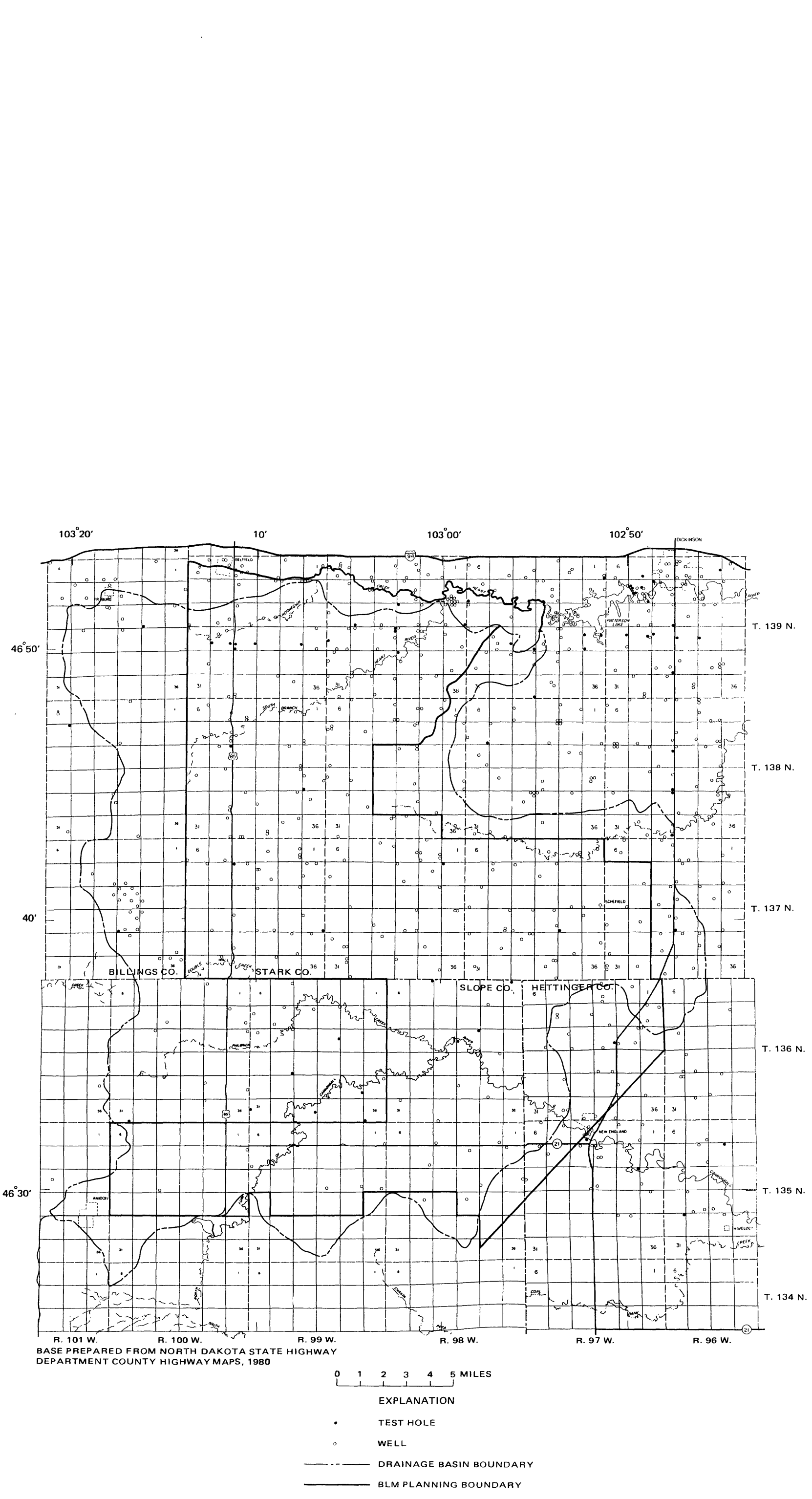


FIGURE 9.—Location of wells and test holes in the Dickinson coal area.

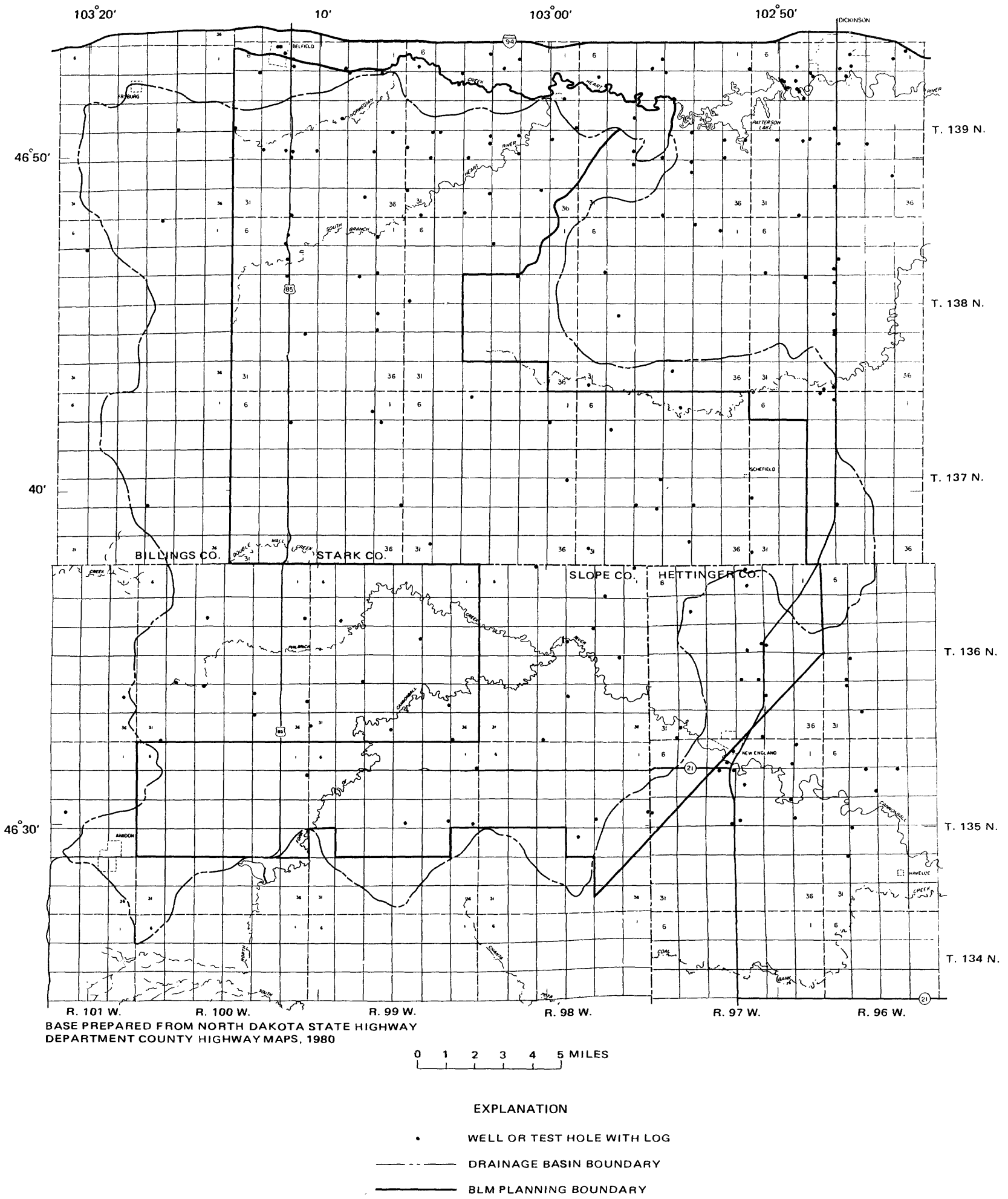


FIGURE 10.—Location of wells or test holes with logs in the Dickinson coal area.

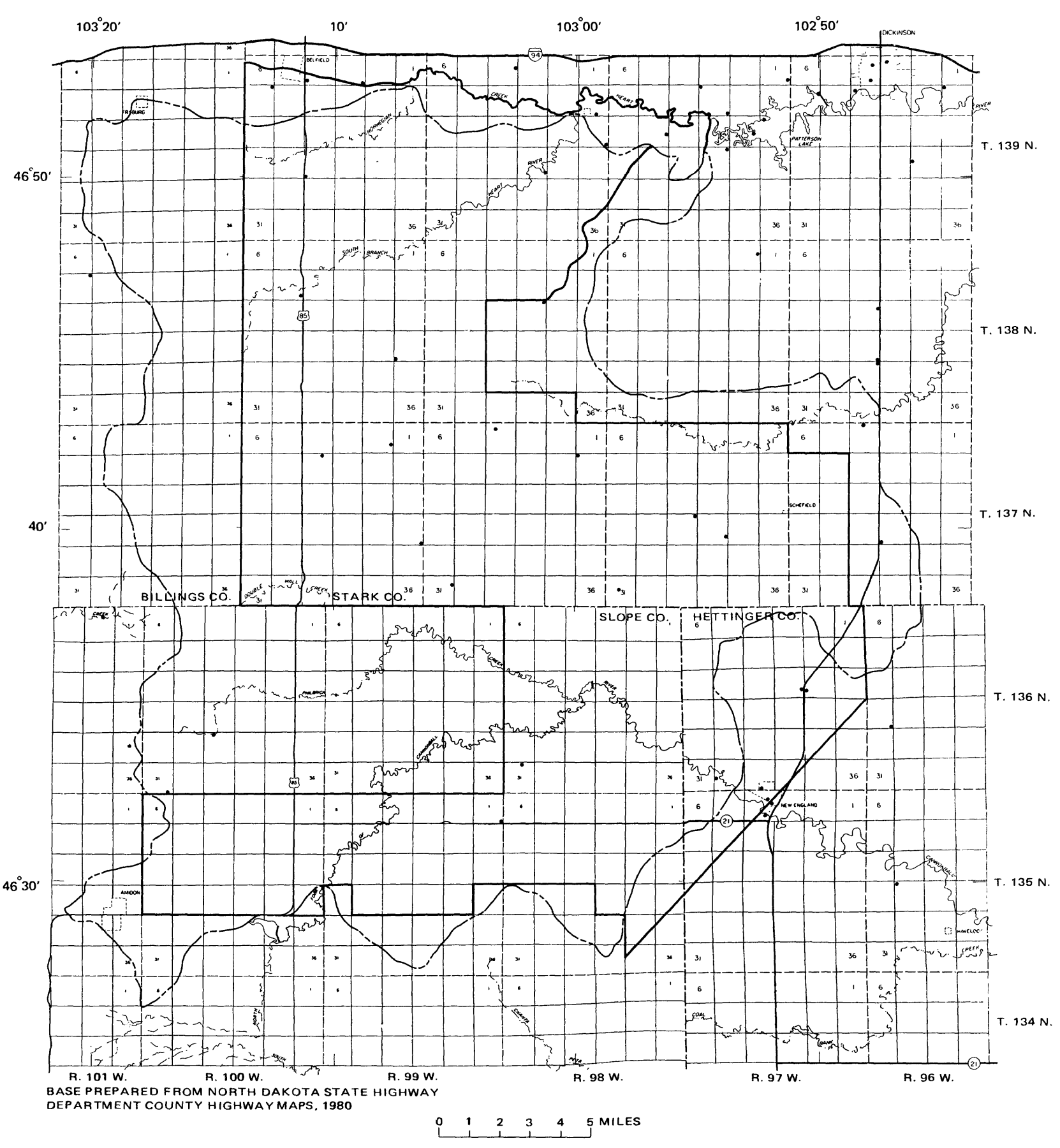


FIGURE 11.—Location of wells with chemical analyses in the Dickinson coal area.

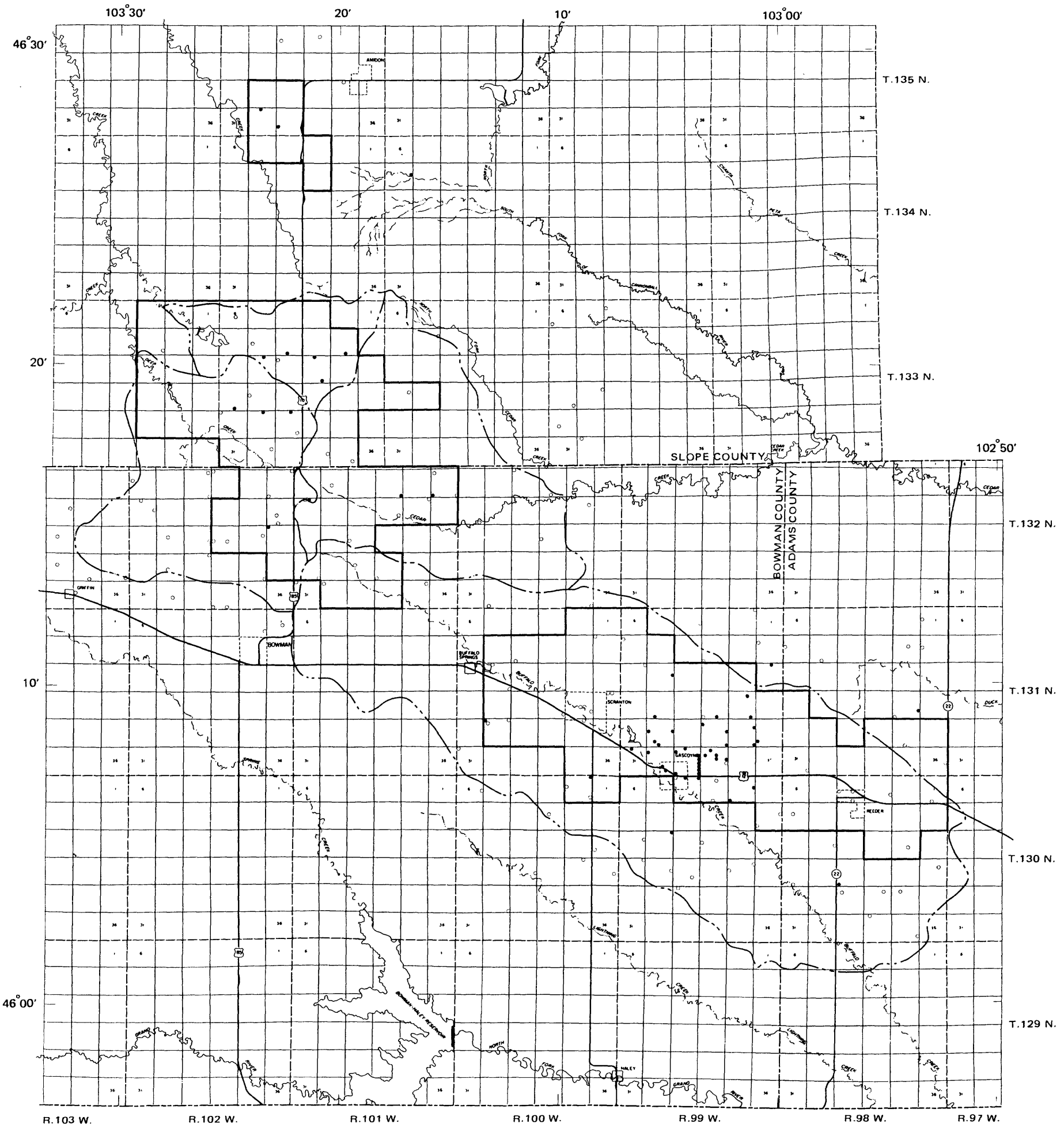
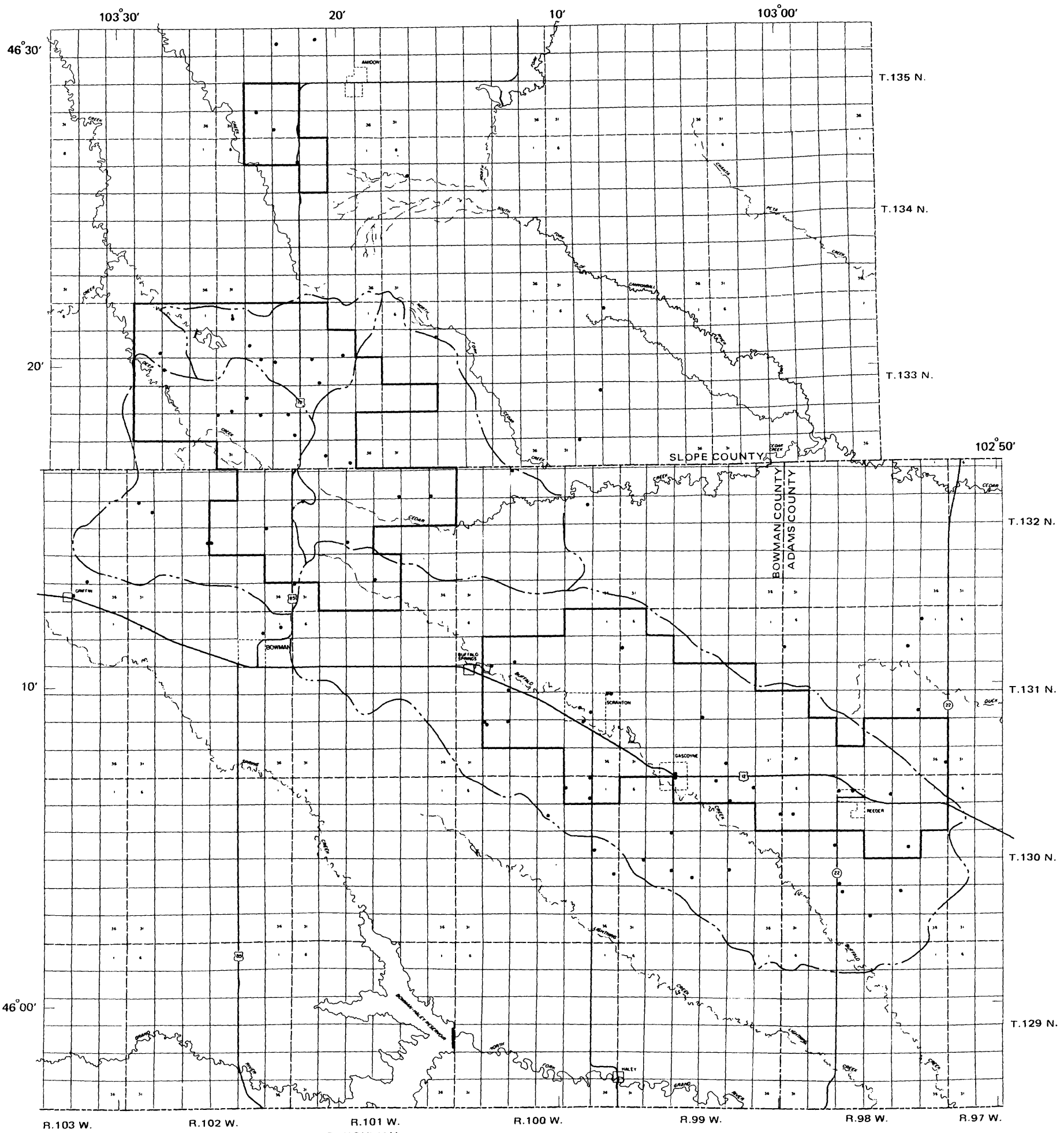
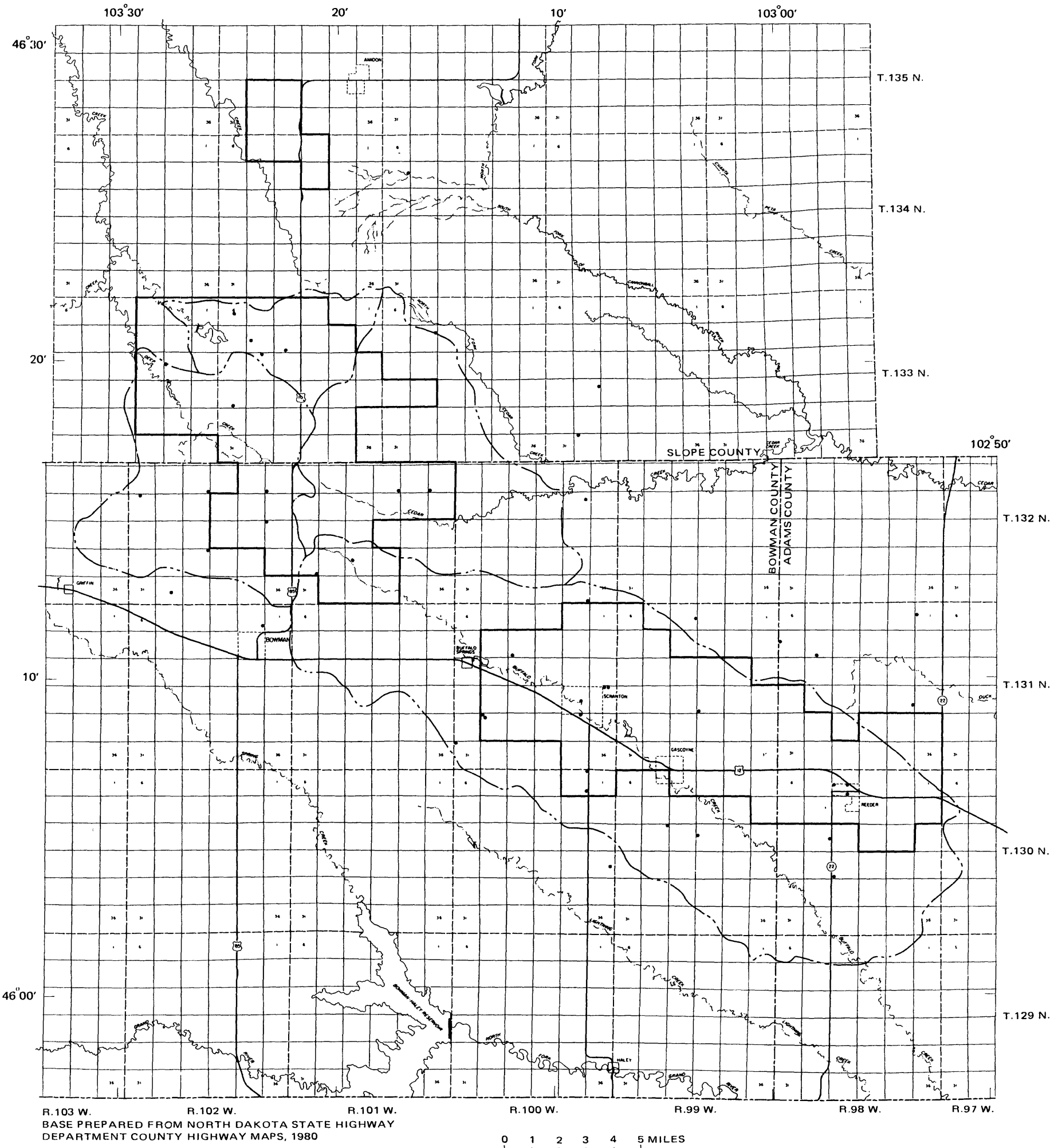


FIGURE 12.—Location of wells and test holes in the Bowman—Gascoyne coal area.



BASE PREPARED FROM NORTH DAKOTA STATE HIGHWAY DEPARTMENT COUNTY HIGHWAY MAPS, 1980

FIGURE 13.—Location of wells or test holes with logs in the Bowman—Gascoyne coal area.



BASE PREPARED FROM NORTH DAKOTA STATE HIGHWAY DEPARTMENT COUNTY HIGHWAY MAPS, 1980

0 1 2 3 4 5 MILES

EXPLANATION

- • WELL WITH CHEMICAL ANALYSIS
- —— - - —— DRAINAGE BASIN BOUNDARY
- ———— BLM PLANNING BOUNDARY

FIGURE 14.—Location of wells with chemical analyses in the Bowman—Gascoyne coal area.

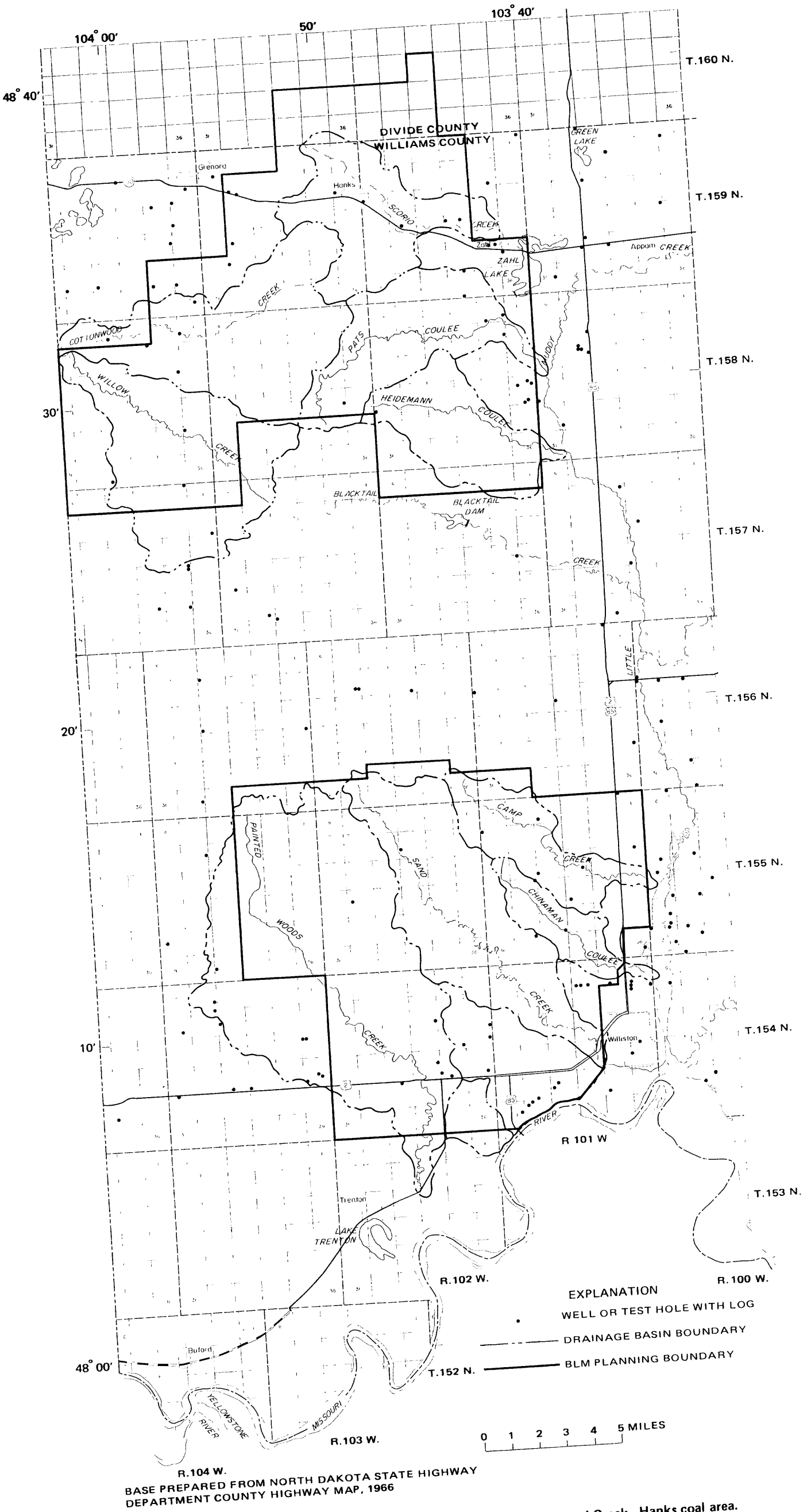


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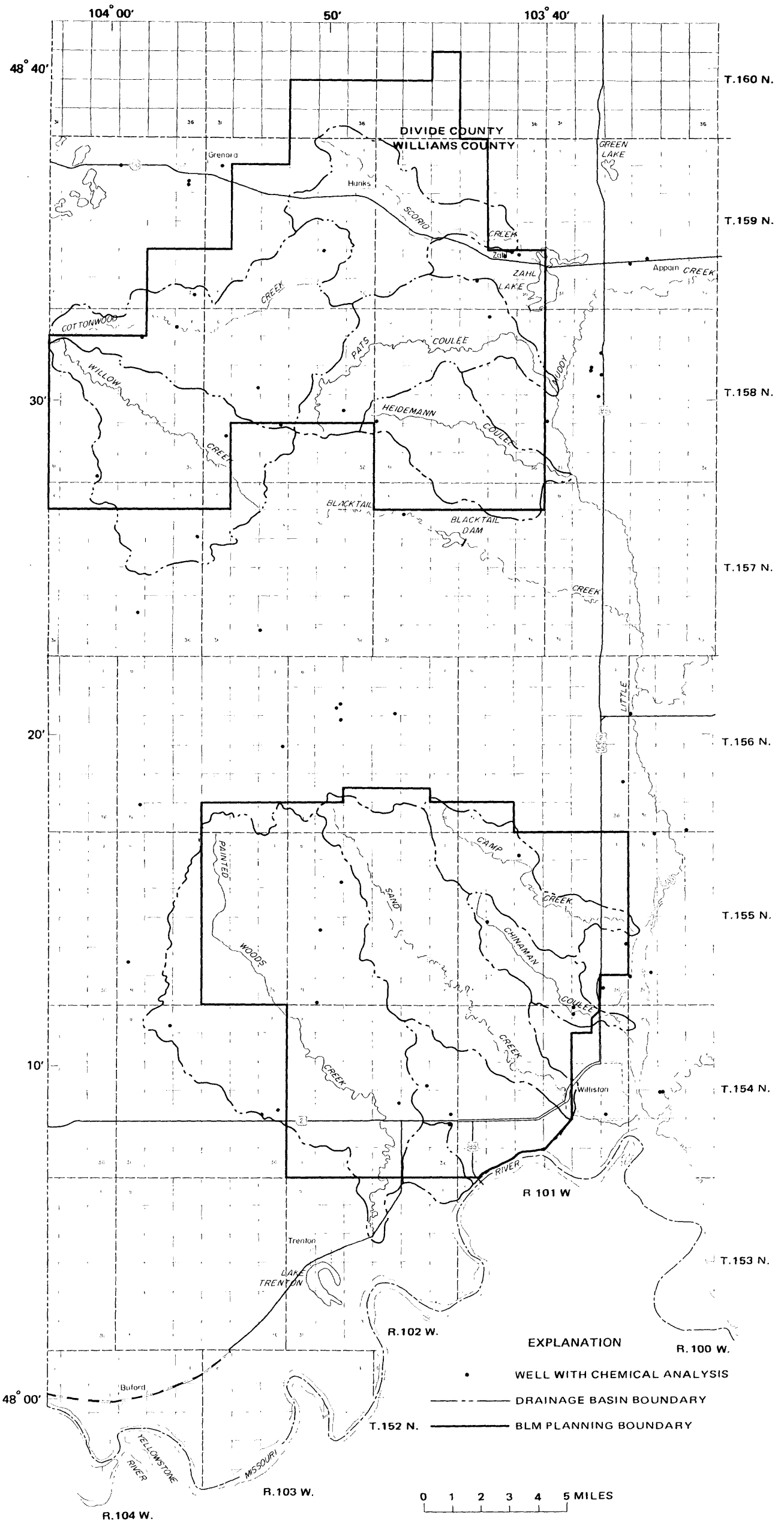
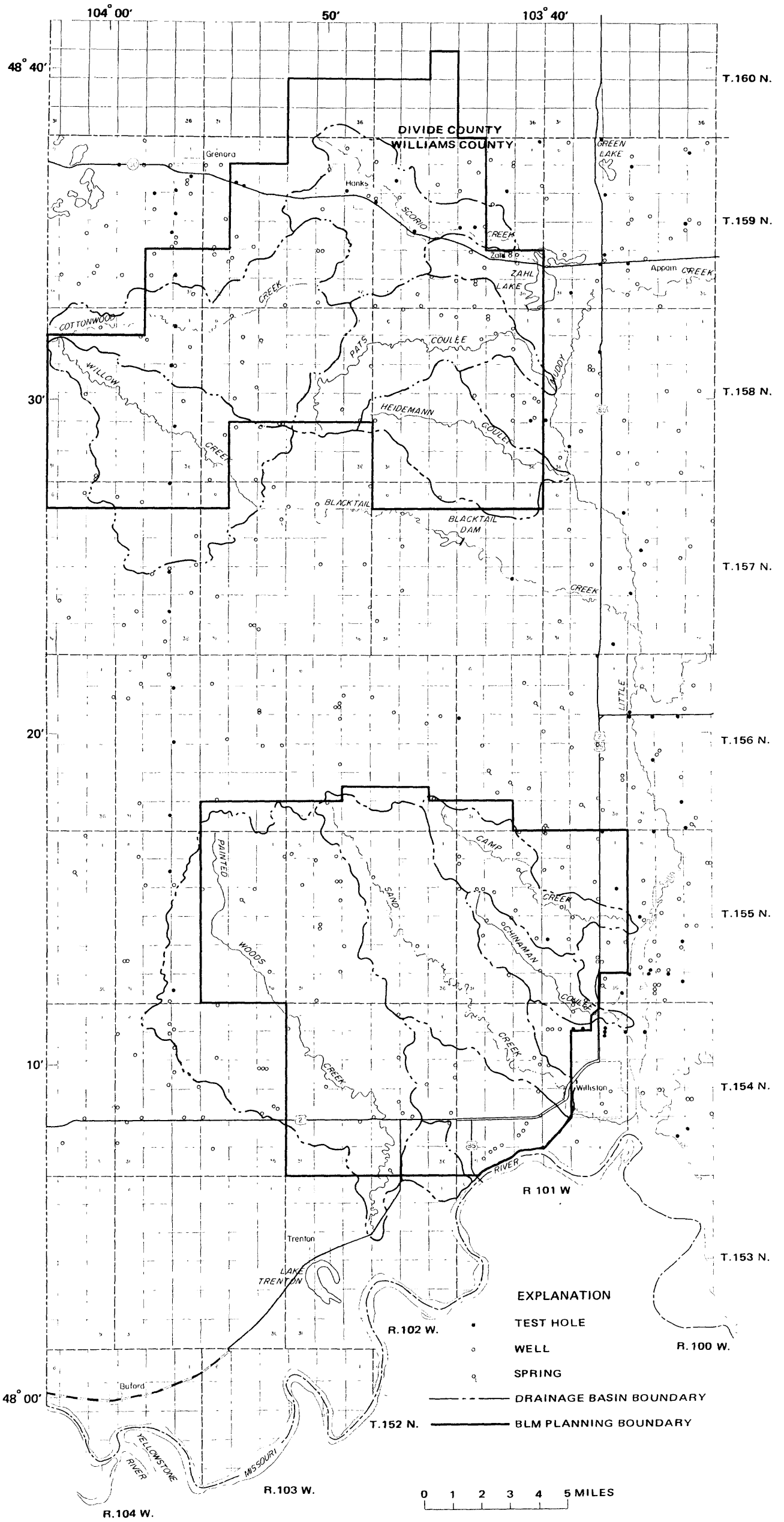
FIGURE 4.—Location of wells or test holes with logs in the Sand Creek—Hanks coal area.



BASE PREPARED FROM NORTH DAKOTA STATE HIGHWAY DEPARTMENT COUNTY HIGHWAY MAP, 1966

FIGURE 5.– Location of wells with chemical analyses in the Sand Creek–Hanks coal area.



BASE PREPARED FROM NORTH DAKOTA STATE HIGHWAY DEPARTMENT COUNTY HIGHWAY MAP, 1966

FIGURE 3.—Location of wells, springs, and test holes in the Sand Creek—Hanks coal area.