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**COUNTY GROUND WATER STUDIES 11**

**Geology & Ground Water Resources**

of

**Renville and Ward Counties**

**Part 2—Ground Water Basic Data**

by

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United States Department of Interior



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in cooperation with the North Dakota State  
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This is one of a series of county reports published cooperatively by the North Dakota Geological Survey and the North Dakota State Water Commission. The reports are in three parts; Part I describes the geology, Part II presents ground water basic data, and Part III describes the ground water resources. Part I and III will be published later and will be distributed as soon as possible.

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GEOLOGY AND GROUND WATER RESOURCES OF RENVILLE AND WARD COUNTIES, NORTH DAKOTA  
PART II - GROUND WATER BASIC DATA

By

Wayne A. Pettyjohn

INTRODUCTION

Purpose and Scope

The purposes of the investigation of the geology and ground-water resources of Renville and Ward Counties, N. Dak., (fig. 1) were to determine the location and extent of the ground-water reservoirs (aquifers); to evaluate the occurrence and movement of ground water, including the sources of recharge and discharge; and to determine the chemical quality of the ground water. The investigation should provide sufficient information about the occurrence of ground water to plan its safe and intelligent development for irrigation, domestic, industrial, and municipal purposes.

The investigation was made cooperatively by the U.S. Geological Survey, North Dakota State Water Commission, North Dakota Geological Survey, Renville County Board of Commissioners, and Ward County Water Management District. The results of the investigation will be published in three separate parts of the bulletin series of the North Dakota Geological Survey and the county ground-water studies series of the North Dakota State Water Commission. Part I is an interpretive report describing the geology, Part II is a compilation of the ground-water basic data, and Part III is an interpretive report describing the ground-water resources. Part II makes available the hydrologic data collected during the investigation of the counties and functions as a reference for Parts I and III.

The information in this report consists of the following: (1) data on 1,373 wells and test holes; (2) water-level measurements in 81 observation wells; (3) logs of 242 test holes and selected wells; and (4) chemical analyses of 416 water samples.

The data in this report are useful for predicting geologic and ground-water conditions in Renville and Ward Counties. For example, a person considering the construction of a new well can locate the proposed site on plate 1 (in pocket). The characteristics of nearby wells may be determined from tables 1 and 2, and the water-level fluctuations in the area may be determined from table 3. The type of material encountered in nearby wells may be determined from table 4 and the chemical quality of water in adjacent wells may be determined from tables 5 and 6. However, such extrapolations should be made conservatively because of the irregular distribution of the water-bearing rocks.

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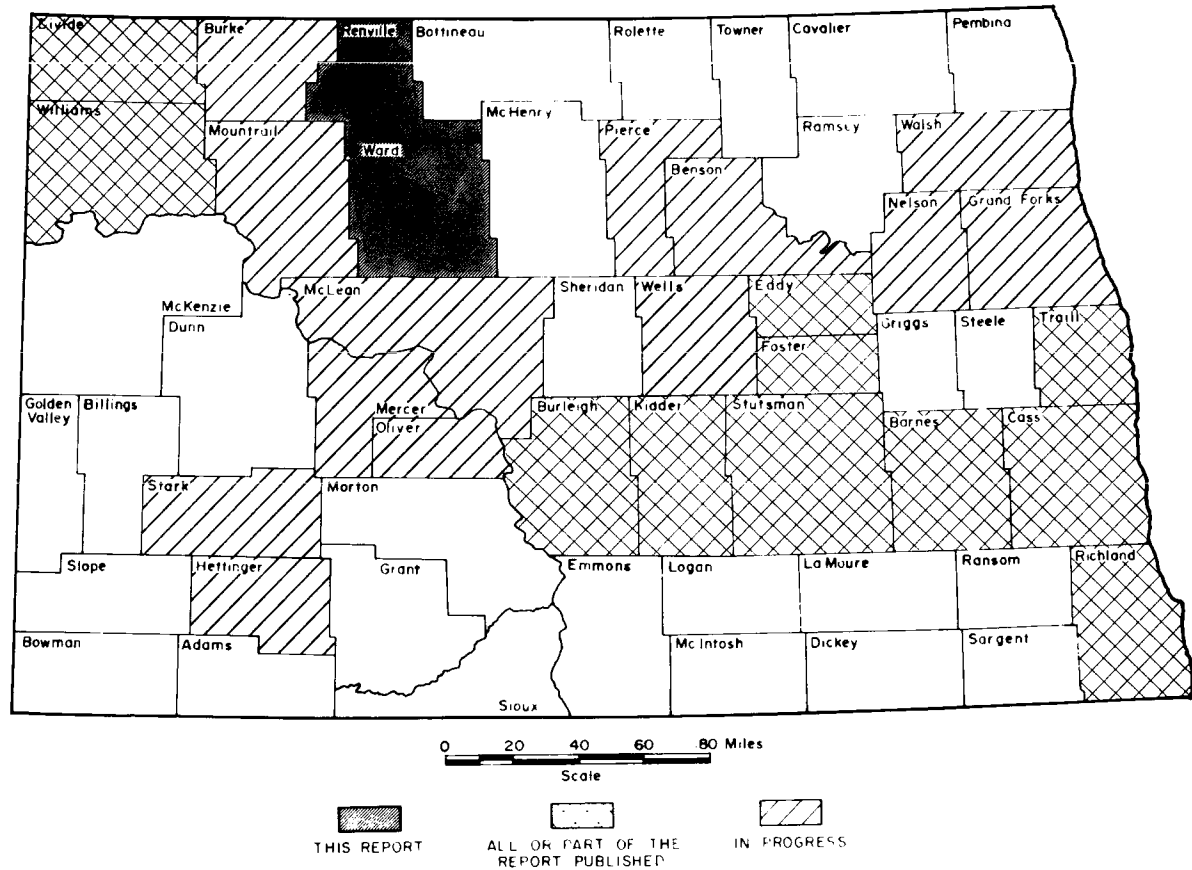


FIGURE 1—Location of county ground-water studies.

### Well-Numbering System

The wells and test holes in the tables are numbered according to a system based on the location in the public land classification of the United States Bureau of Land Management. It 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 sections, quarter-quarter sections, and quarter-quarter-quarter sections (10-acre tract). For example, well 153-87-15ada is in the NE<sup>1</sup>SE<sup>1</sup>NE<sup>1</sup> sec. 15, T. 153 N., R. 87 W. Consecutive terminal numerals are added if more than one well is recorded within a 10-acre tract. The location of each well and test hole listed in the tables is shown on plate 1.

### Acknowledgments

Many of the test holes were drilled by the North Dakota State Water Commission. The cooperation of the residents of the counties, municipal and county officials, and well drillers who supplied general and specific information on farm, domestic, and municipal well installations is gratefully acknowledged.

### EXPLANATION OF TABLES

The logs in table 4, except those furnished by commercial drilling companies, are composites of the well-site geologists' and drillers' descriptions, sample analyses, and electric logs (where available). Visual methods (megascopic and microscopic) were used to describe the composition and texture of the subsurface rock samples. Color descriptions were determined by comparing the sample with the Geological Society of America's rock-color chart (1963). Grain size determinations used in the logs refer to the Wentworth (1922) size scale.

The terminology in the commercial logs, except for the term "till," is that of the driller and only the order of description has been changed so as to present the principal lithology first.

The term "till" indicates an unsorted, unstratified, cohesive, agglomeration of rock particles ranging from clay to boulders. Generally clay is the predominant particle size. If a particle size other than clay is dominant, that particle size is used as a modifying term. Consequently, terms such as silty, sandy, or gravelly are textural terms used to indicate that the material described contains an appreciable, but not a dominant amount of the modifying material.

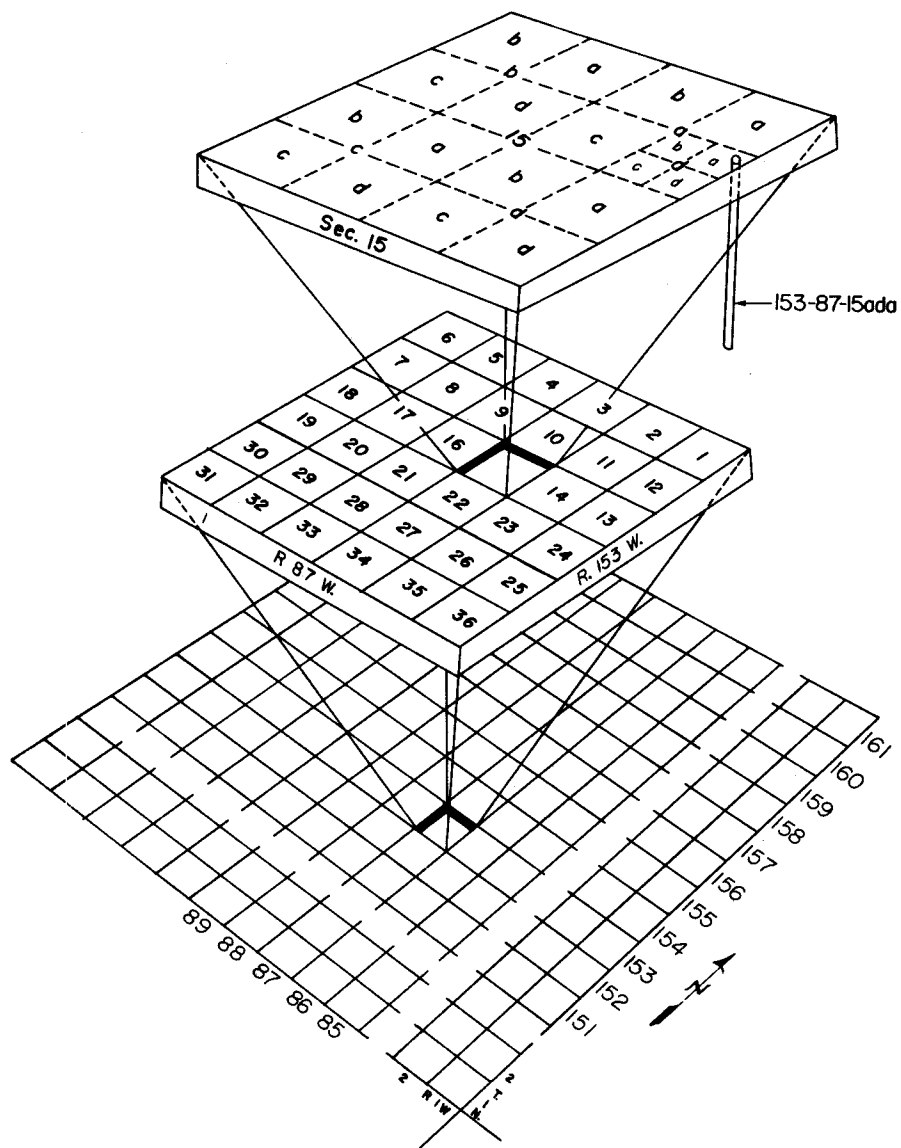


FIGURE 2 - System of numbering wells and test holes.

Observation wells were constructed in selected test holes. Casings for these wells consist for the most part of 1½-inch plastic pipe, slotted in the lower 10 or 20 feet or screened in the lower 2 feet. The observation wells were pumped for a few hours and a water sample was collected for chemical analysis (tables 5 and 6).

The stratigraphic nomenclature used in this report is that of the North Dakota Geological Survey and, in some instances, differs from that of the U.S. Geological Survey.

#### WATER-QUALITY DATA

All natural water contains dissolved mineral matter. Water in contact with soil or rock, even for only a few hours, will dissolve some mineral matter. The quantity of dissolved minerals in natural water depends primarily on the type of rock or soil with which the water has been in contact and the length of time of contact. Ground water is generally more highly mineralized than surface water because it remains in contact with rock and soil for much longer periods.

The mineral constituents and physical properties of natural water reported in the table of analyses include those that have a practical bearing on the value of the water for most purposes. The analyses generally include determinations of silica, iron, calcium, magnesium, sodium, potassium (or sodium and potassium together calculated as sodium), alkalinity as carbonate and bicarbonate, sulfate, chloride, fluoride, nitrate, boron, dissolved solids, pH, and specific conductance. The source and significance of the different constituents and properties of natural water are discussed in the following paragraphs.

#### Mineral Constituents in Solution

##### Silica (SiO<sub>2</sub>)

Silica is dissolved from practically all rocks. Some natural waters contain less than 5 ppm (parts per million) of silica and few contain more than 50 ppm, but the more common range is from 10 to 30 ppm. Silica affects the usefulness of water because it contributes to the formation of scale in pipes, water heaters, and boilers.

##### Iron (Fe)

Iron is dissolved from many rocks and soils. On exposure to air, normal basic water that contains more than 1 ppm of iron soon becomes turbid with the insoluble reddish ferric oxide produced by oxidation. Surface water, therefore, seldom contains as much as 1 ppm of dissolved iron, although some acid water carries large quantities of iron in solution. Ground water commonly contains up to 10 ppm. Rarely, concentrations over 50 ppm may occur in water with a pH of 5 to 8 (Hem, 1959). Iron causes reddish-brown stains on porcelain or



enameled ware and fixtures and on fabrics washed in the water. The U.S. Public Health Service (1962) recommends an upper limit of 0.3 ppm of iron in drinking water.

#### Calcium (Ca)

Calcium is dissolved from almost all rocks and soils. Calcium and magnesium cause hard water and are largely responsible for the formation of scale in pipes, water heaters, and boilers. Water associated with granite or silicious sand may contain less than 10 ppm of calcium, whereas water associated with dolomite and limestone, which are common in aquifers in Renville and Ward Counties, may contain from 30 to 100 ppm. Water that has been in contact with deposits of gypsum may contain several hundred parts per million of calcium.

#### Magnesium (Mg)

Magnesium is dissolved from many rocks, particularly from dolomitic rocks. Its effect in water is similar to that of calcium. The magnesium in soft water may amount to only 1 or 2 ppm, but water in areas that contain large quantities of dolomite or other magnesium-bearing rocks may contain from 20 to more than 100 ppm of magnesium.

#### Sodium and potassium (Na and K)

Sodium and potassium are dissolved from practically all rocks. Sodium is the predominant cation in some of the more highly mineralized water found in the western United States. Natural water that contains only 3 or 4 ppm of the two together is likely to carry almost as much potassium as sodium. As the total quantity of these constituents increases, the proportion of sodium becomes much greater. The potassium concentration in water commonly does not exceed 50 ppm. Moderate quantities of sodium and potassium have little effect on the usefulness of the water for most purposes, but water that contains more than 50 to 100 ppm of the two may require careful operation of steam boilers to prevent foaming. More highly mineralized water that contains a large proportion of sodium salts may be unsatisfactory for irrigation. The presence of several hundred parts per million of sodium in water makes it unsuitable for use in sodium-restricted diets used as therapy for cardiovascular diseases.

#### Bicarbonate and carbonate ( $\text{HCO}_3$ and $\text{CO}_3$ )

Bicarbonate and carbonate are commonly reported as alkalinity. Since the major causes of alkalinity in most natural water are carbonate and bicarbonate ions dissolved from carbonate rocks, the results are usually reported in terms of these constituents. Although alkalinity is primarily due to the presence of carbonate and bicarbonate, other ions also contribute to alkalinity such as silicates, phosphates, borates, possibly fluoride, and certain organic anions which may occur in colored waters. The significance of alkalinity

to the domestic, agricultural, and industrial user is usually dependent upon the nature of the cations (Ca, Mg, Na, K) associated with it. However, moderate amounts of alkalinity do not adversely affect most use.

#### Sulfate ( $SO_4$ )

Sulfate is dissolved from many rocks and soils--in especially large quantities from gypsum and shale. It is formed also by the oxidation of sulfides of iron (pyrite) and may therefore be present in considerable quantities in mine water. The concentration of sulfate in water is generally limited to about 1,500 ppm by the solubility of calcium sulfate (gypsum). Sulfate in water that contains much calcium and magnesium causes the formation of hard scale in steam boilers and may increase the cost of softening the water. Large concentrations of sulfate also cause a "soda" or "alkali" taste that is undesirable. The U.S. Public Health Service (1962) recommends that 250 ppm of sulfate should be the upper limit for drinking water.

#### Chloride (Cl)

Chlorides are generally very soluble compounds and are found in most rocks so that chlorides are found in all natural water. Large quantities of chloride may affect the industrial use of water by increasing the corrosiveness of water that contains large quantities of calcium and magnesium. Large concentrations of chloride also may give water a salty taste. The U.S. Public Health Service (1962) recommends an upper limit of 250 ppm of chloride for drinking water.

#### Fluoride (F)

Fluoride has been reported as being present in igneous and some sedimentary rocks to about the same extent as chloride. However, most fluorides, unlike the chlorides, are low in solubility so that the quantity of fluoride in natural water is ordinarily very small compared to that of chloride. Hem (1959) reported that fluoride concentrations in excess of 10 ppm are rare. Investigations have proved that fluoride concentrations of about 0.6 to 1.7 ppm reduce the incidence of dental caries, and that concentrations greater than 1.7 ppm also protect teeth from cavities but cause an undesirable black stain (Durfor and Becker, 1964). The U.S. Public Health Service (1962, p. 8) states, "When fluoride is naturally present in drinking water, the concentration should not average more than the appropriate upper control limit (0.6 to 1.7 ppm). Presence of fluoride in average concentrations greater than two times the optimum value shall constitute grounds for rejection of the supply." Concentrations higher than the stated limits may cause mottled enamel in teeth.

#### Nitrate (NO<sub>3</sub>)

Nitrate in water is considered a final oxidation product of nitrogenous material and may indicate contamination by sewage or other organic matter. The U.S. Public Health Service (1962) sets 45 ppm as the upper limit for nitrate. Ingestion of excessive quantities of nitrate may result in infantile methemoglobinemia. If the concentration is sufficiently great, both man and animals can be poisoned by nitrate.

#### Boron (B)

Boron in small quantities has been found essential for plant growth, but irrigation water containing more than 1 ppm of boron is detrimental to navy beans and other boron-sensitive crops.

#### Dissolved solids

The reported quantity of dissolved solids--the residue on evaporation--consists mainly of the dissolved mineral constituents in the water. It may also contain some organic matter and water of crystallization. Water with less than 500 ppm of dissolved solids is usually satisfactory for domestic and some industrial uses. Water containing several thousand parts per million of dissolved solids is commonly successfully used for irrigation where practices permit the removal of soluble salts through the application of large volumes of water on well-drained lands; but, generally water containing more than about 2,000 ppm is considered to be unsuitable for long-term irrigation under average conditions.

### Properties and Characteristics of Water

#### Temperature

Temperature is an important factor in properly determining the quality of water. This is very evident for such a direct use as an industrial coolant. Temperature is also important, but perhaps not so evident, for its indirect influence upon concentrations of dissolved gases and distribution of chemical solutes in ground water. Normally, the temperature of ground water within 60 feet of the surface approximates the mean annual air temperature and increases 1°F for each 60 to 100 feet of increase in depth.

#### Hardness

Hardness is the characteristic of water that receives the most attention in industrial and domestic use. It is commonly recognized by the increased quantity of soap required to produce lather. The use of hard water is also objectionable because it contributes to the formation of scale in boilers, water heaters, radiators, and pipes, with a resultant

decrease in rate of heat transfer, possibility of water heater or boiler failure, and decrease of flow.

Hardness is caused almost entirely by compounds of calcium and magnesium. Other constituents--such as iron, manganese, aluminum, barium, strontium, and free acid--also cause hardness, although they usually are not present in quantities large enough to have any appreciable effect.

Generally, bicarbonate and carbonate determine the proportions of "carbonate" hardness of water. Carbonate hardness is the amount of hardness chemically equivalent to the amount of bicarbonate and carbonate in solution. Carbonate hardness is approximately equal to the amount of hardness that is removed from water by boiling and is termed temporary hardness.

Noncarbonate hardness is the difference between the hardness calculated from the total amount of calcium and magnesium in solution and the carbonate hardness. If the carbonate hardness (expressed as calcium carbonate) equals the amount of calcium and magnesium hardness (also expressed as calcium carbonate) there is no noncarbonate hardness. Noncarbonate hardness is about equal to the amount of hardness remaining after water is boiled. The scale formed at high temperatures by the evaporation of water containing noncarbonate hardness commonly is tough, heat resistant, and difficult to remove.

Although many people talk about soft water and hard water, there has been no firm line of demarcation. Water that seems hard to an easterner may seem soft to a westerner. The Geological Survey has adopted the following classification:

<u>Hardness range (calcium carbonate in ppm)</u>	<u>Hardness description</u>
0-60	Soft
61-120	Moderately hard
121-180	Hard
more than 180	Very hard

For public use, water with hardness of about 200 ppm generally requires softening treatment (Durfur and Becker, 1964).

#### Sodium-adsorption ratio (SAR)

The term "sodium-adsorption ratio (SAR)" was introduced by the U.S. Salinity Laboratory Staff (1954). It is a ratio expressing the relative activity of sodium ions in exchange reaction with soil and is an index of the sodium or alkali hazard to the 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 (or equivalents per million for most irrigation water).

Water is divided into four classes with respect to sodium or alkali hazard: low, medium, high, and very high, depending upon the SAR and specific conductance. At a conductance of 100 micromhos per centimeter the dividing points are at SAR values of 10, 18, and 26; but at 5,000 micromhos the corresponding dividing points are SAR values of approximately 2.5, 6.5, and 11. Water ranges in respect to sodium hazard from that which can be used for irrigation on almost all soils to that which is generally unsatisfactory for irrigation.

Specific conductance (micromhos per centimeter at 25°C)

Specific conductance is a convenient, rapid determination used to estimate the amount of dissolved solids in water. It is a measure of the ability of water to conduct an electrical current. Commonly, the amount of dissolved solids (in parts per million) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from well to well and it may even vary in the same source with changes in the composition of the water (Durfor and Becker, 1964).

Specific conductance of most water in the eastern United States is less than 1,000 micromhos, but in the arid and semiarid western parts of the country, a specific conductance of more than 1,000 micromhos is common.

Hydrogen-ion concentration (pH)

Hydrogen-ion concentration is expressed in terms of pH units. The values of pH commonly are used as a measure of the solvent power of water or as an indicator of the chemical behavior certain solutions may have toward rock minerals.

The degree of acidity or alkalinity of water, as indicated by the hydrogen-ion concentration, expressed as pH, is related to the corrosive properties of water and is useful in determining the proper treatment for coagulation that may be necessary at water-treatment plants. A pH of 7.0 indicates that the water is neither acid nor alkaline. Readings progressively lower than 7.0 denote increasing acidity and those progressively higher than 7.0 denote increasing alkalinity. The pH of most ground water ranges between 5.5 and slightly more than 8.

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TABLE 1.--Records of wells and test holes, Renville County

<u>Method drilled</u>	<u>Depth to water below land surface</u>	<u>Specific conductance (micromhos per centimeter at 25°C)</u>
B, bored or augered	F, flows	1, 51-150
C, cable tool		2, 151-300
D, dug	<u>Use of water</u>	3, 301-500
H, hydraulic rotary	H, domestic	4, 501-1,000
J, jetted	I, irrigation	5, 1,001-2,000
R, reverse rotary	K, domestic and stock	6, 2,001-5,000
V, driven	N, industrial	7, 5,001-10,000
T, trenching	P, public supply	8, 10,001-20,000
Z, other	S, stock watering	
	U, unused	<u>Remarks</u>
<u>Aquifer</u>	<u>Lift and power</u>	(1) yield in gallons per minute
K3, Upper Cretaceous	Lift	(2) log available
OC, Fort Union Group		D, drillers log
OD, Tongue River Formation	C, centrifugal	E, electric log
OE, Cannonball Formation	J, jet	G, geologist log or sample log
OG, Tongue River and Ludlow Formations undifferentiated	L, multiple (centrifugal)	(3) temperature of water in degrees F
PC, Fox Hills Formation	M, multiple (turbine)	(4) frequency of water-level measurement
QC, Quaternary, Pleistocene	N, none	M, monthly
TL, Tertiary, Paleocene	P, piston	N, none
31, outwash	S, submersible	O, original (inventory) measurement only
41, till	T, turbine	
51, buried glaciofluvial deposits	Z, other	
52, buried channel deposits		
<u>Lithology</u>	Power	
4, coarse grained	1, hand	
6, clayey	3, gasoline engine	
7, silty	5, electric motor	
8, sandy	6, windmill	
B, sedimentary rock unclassified	F, gasoline engine through 5 horsepower	
F, shale	S, electric motor through 1 horsepower	
G, gravel	T, electric motor > 1 to 5 horsepower	
O, organic	V, electric motor > 15 to 100 horsepower	
P, clay		
Q, silt or loess		
R, sand and gravel		
S, sand		
T, till		
V, sandstone		
X, silty sand		
Z1, coal		

Table 1 - Schedule of wells and test holes, 1960-1966, in county

LOCATION NUMBER	OWNER OF NAME	DEPTH OF WELL (FEET)	DIAM. OF WELL (INCHES)	METHOD OF DRILL-ED	DATE DRILL-ED	AQUIFER	LITHOLOGY	DEPTH TO SURFACE (FEET)	DATE OF MEASUREMENT	USE OF WATER	LIFT AND POWER	SPECIFIC CONDUCTANCE	ELEVATION OF SURFACE	REMARKS
1580021010A	C. COFFEE, MASS. PK.	200	2	H	1912	TLOC		15	6-64	K	P S	7		
1580021010B	F. SCODANSON	250	4	F	1906	TLOC		6	6-64	K	P S			
1580021010C	H. ST. VINS	314	4	H	1969	TLOC	F	6	6-64	S	P S	1517		
1580021010D	L. THOMPSON	314	4	H	1962	TLOC	F	9	6-64	K	P S	1515		
1580021010E	M. ROLLS	200	4	H	1910	TLOC	G	7	12-65	U	N	1514		
1580021010F	U. S. S.	113	1	H	1965	0631	G	7	12-65	U	N	1514		
1580021010G	U. S. S.	140	4	H	1965	TLOC		12	6-64	K	P S	1530		
1580021010H	L. WACKES	220	2	H	1920	TLOC		12	6-64	K	P S	1530		
1580021010I	U. S. S.	36	1	H	1964	0652	R	12	12-65	U	N	1530		
1580021010J	U. S. S.	192	1	H	1965	0651	R	15	12-65	U	N	1525		
1580021010K	U. S. S.	192	1	H	1965	0651	R	15	12-65	U	N	1525		
1580021010L	U. S. S.	192	1	H	1965	0651	R	15	12-65	U	N	1525		
1580021010M	D. M. J. LINDY	150	4	D	1914	0651	D	8	6-64	P	T T	1540		
1580021010N	M. L. BURN	32	4	D	1914	0651	D	8	6-64	P	T T	1540		
1580021010O	N. D. W. C.	226	4	H	1961	TLOC		86	6-64	U	N	1565		
1580021010P	M. L. BURN	300	3	C	1963	TLOC		86	6-64	U	N	1565		
1580021010Q	U. S. S.	186	4	H	1947	TLOC			6-64	H	N	1579		
1580021010R	L. ARMSSTRONG	200	5	H	1920	TLOC		50	6-64	K	P S	1570		
1580021010S	H. KASHALL	275	4	H	1965	0651	S	5	12-65	U	N	1570		
1580021010T	U. S. S.	140	4	H	1965	0651	S	5	12-65	U	N	1570		
1580021010U	M. S. G. WATERS	365	4	H	1920	TLOC		80	6-64	U	N	1611		
1580021010V	U. S. S.	200	4	H	1965	0651	G	33	12-65	U	N	1593		
1580021010W	U. S. S.	165	1	H	1965	TLOC		80	6-64	K	P S	1600		
1580021010X	U. S. S.	180	4	H	1965	TLOC		80	6-64	K	P S	1595		
1580021010Y	C. V. O'NEALTY	300	6	D	1915	0631	S	4	5-66	H	J S	1595		
1580021010Z	L. PHILLIPS	15	6	D	1910	TLOC		60	6-64	U	N	1595		
1580021010A1	L. PHILLIPS	400	2	H	1965	TLOC		108	6-64	K	P S	1638		
1580021010B1	F. L. HANSEN	60	4	H	1964	TLOC		80	6-64	K	P S	1632		
1580021010C1	F. L. HANSEN	320	2	H	1964	TLOC		80	6-64	K	P S	1632		
1580021010D1	F. L. HANSEN	320	2	H	1964	TLOC		80	6-64	K	P S	1632		
1580021010E1	W. HANSEN	12	36	C	1944	0631	G	6	6-66	S	P S	1635		
1580021010F1	D. SMITH	15	36	D	1939	0631	R	12	6-66	H	P T	1678		
1580021010G1	H. J. HANSEN	518	4	H	1922	TLOC		60	6-64	K	P S	1619		
1580021010H1	F. EARLY	165	4	H	1947	TLOC		20	6-64	U	N	1610		
1580021010I1	U. S. S.	225	4	H	1947	TLOC		20	6-64	H	P S	1695		
1580021010J1	J. JOHNSON	56	12	R	1915	0651	S	100	6-64	K	J S	1705		
1580021010K1	J. JOHNSON	515	4	R	1926	TLOC		20	6-66	K	J S	1657		
1580021010L1	J. JOHNSON	129	24	B	1936	0651	G	20	6-66	K	J S	1655		
1580021010M1	J. JOHNSON	129	24	B	1936	0651	G	20	6-66	K	J S	1655		
1580021010N1	R. ECKERT	140	24	B	1950	0651	G	15	6-64	S	P S	1655		
1580021010O1	R. ECKERT	142	24	B	1941	TLOC		15	6-64	S	P S	1655		
1580021010P1	B. L. HANSEN	74	24	B	1955	0651	S	30	6-64	H	P S	1742		
1580021010Q1	F. EARLY	265	6	B	1958	TLOC		180	6-64	H	P S	1742		
1580021010R1	F. EARLY	60	24	R	1941	0651	G	70	6-64	H	P S	1742		
1580021010S1	F. EARLY	30	24	B	1957	0651	G	15	6-66	H	P S	1822		
1580021010T1	F. EARLY	400	4	B	1946	TLOC		80	6-64	H	P S	1812		
1580021010U1	F. EARLY	400	4	B	1946	TLOC		80	6-64	H	P S	1812		
1580021010V1	M. HANSEN	450	4	B	1939	TLOC		75	6-64	K	P S	1817		
1580021010W1	C. ANDERSON	450	4	B	1939	TLOC		75	6-64	K	P S	1817		
1580021010X1	L. JAMILLON	80	24	B	1940	0651	R	20	6-64	K	P S	1869		
1580021010Y1	U. S. S.	60	1	H	1946	0651	R	13	9-86	S	M	1937		



159N086W01D0C	F. JOHNSON	405	3	1930	TLOC	S	120	6-64	K	P	S	1452
159N086W01B01	H. MILLER	19	22	1958	Q651		11	6-64	H	P	S	1909
159N086W08B8B2	H. MILLER	200	4	1920	TLOC	ZI	60	9-64	K	P	S	1903
159N085W11B8	U. S. G. S.	245	4	1947	TLOC							6
159N086W13CDD	M. VANDERSTROM	670	3	1908	Q641		100	6-64	K	P	S	1862
159N086W14CC	U. S. A. F.	100	4	1961	3C41	6T	15	5-61	U	N		6
159N086W20AAA	U. S. G. S.	200	4	1947	Q651	S	10	6-64	H	P	S	1916
159N086W21CEA1	C. ERICKSON	25	24	1930	Q651	G	180	6-64	K	P	S	1907
159N086W21CBA2	C. ERICKSON	200	4	1920	TLOC	R	8	6-64	K	P	S	1923
159N086W30ADD	U. S. G. S.	25	4	1966	TLOC							EG
159N086W30CCD	J. FINE	25	4	1966	TLOC							
159N086W32CCD	J. FINE	214	4	1961	TLOC							
159N086W35CCG1	A. RODGENBUCK	40	24	1950	Q651	S	60	6-64	K	P	S	6
159N086W35CCG2	A. RODGENBUCK	40	24	1952	Q651	S	15	6-64	K	P	S	1750
159N087M02CCD1	M. ANDERSON	300	4	1920	TLOC							EG
159N087M02CCD2	M. ANDERSON	4	48	1920	Q651	S	3	7-65	U	N		M
159N084W06B8B	U. S. G. S.	20	1	1964	Q641	6T	14	12-65	U	N		1729
159N084W17AAD	E. EAMON	7	36	1956	Q651	G	5	6-66	H	J	S	1920
159N084W17B8B	M. HEDDERF	60	18	1920	Q651	G	16	6-64	K	P	S	1700
159N084W21BAA	T. SANDOLPH	400	4	1965	TLOC	S	100	6-64	U	N		EG
159N084W21BAA	T. SANDOLPH	200	4	1965	TLOC							
159N084W250DD	J. WINDLIN	400	6	1920	TLOC							
159N084W27DAA	H. MILKEY	508	4	1930	TLOC							
159N084W34B8A	D. LIMKE	593	4	1946	TLOC							
159N085W01B8A	M. VENDESL	440	3	1911	TLOC							
159N085W01CC	U. S. A. F.	100	3	1961	Q641	6T	10	6-61	U	N		9
159N085W04DCC	C. HEDBERG	618	3	1912	TLOC							6
159N085W10ACC	U. S. G. S.	105	5	1947	TLOC							G
159N085W18AB8	L. ELBERG	648	5	1947	TLOC							1812
159N085W20CCC	M. ELBERG	540	4	1947	TLOC							1812
159N085W20CCC	M. ELBERG	540	4	1947	TLOC							1812
159N085W30BCC	O. BUELG	50	24	1920	TLOC							1734
159N085W31B8C	C. WARD	651	4	1905	Q651	R	30	6-64	K	P	S	1830
159N085W34AD8	ANDERSON BROS	26	21	1926	TLOC							1830
159N086W04DCC	G. POPPINGA	230	4	1902	Q651	G	20	6-64	S	P	S	1773
159N086W05CC	U. S. A. F.	100	3	1915	TLOC							1840
159N086W14B8B	R. BRUMES	465	3	1961	Q641	6T	13	5-61	U	N		6
159N086W17ADD	D. STARK	470	2	1920	TLOC							1830
159N086W19CC	U. S. A. F.	100	3	1961	Q651	6T	90	6-64	K	P	S	6
159N086W30DAD	R. PATTERSON	200	3	1917	TLOC							1852
159N086W34DCC	L. STEINBERGER	250	4	1920	TLOC	ZI	68	6-64	K	P	S	1893
160N084W033AA	R. MAY	400	3	1920	TLOC							1895
160N084W05CCD	U. S. G. S.	50	5	1948	Q641							1867
160N084W05CCD	U. S. G. S.	249	5	1948	TLOC	BP						6
160N084W07AAA	U. S. G. S.	50	5	1948	Q641	BP						6
160N084W07B8A	U. S. G. S.	50	5	1948	Q641	7P						6
160N084W07CC	MURRAY BROS	375	3	1948	TLOC							6
160N084W08AC	BECKER	16	84	1955	Q651	G	3	11-47	H			0
160N084W08ACB	G. GILSETH	16	8	1955	Q651	G						220
160N084W09AAA	U. S. G. S.	40	6	1968	Q641	7P	10	6-64	U	S	T	6
160N084W09AAA	U. S. G. S.	100	3	1961	Q651	R	15	5-61	U	N		6
160N084W09B8	B. MILLER	280	3	1961	Q651	R	6	47	U	S		8
160N084W09CCD	A. IVERSON	301	3	1961	TLOC	S	70	6-64	S	P	S	6
160N084W10BCC	G. MAY	300	3	1961	Q651	S	30	9-47	S			6





Table 1. CONTINUED.

LOCATION NUMBER	OWNER NAME	DIAM. OF WELL (INCHES)	METHOD OF DRILL-ED	DATE DRILL-ED	AQUIFER	DEPTH TO WATER BE			LIFT AND CONDUCT-ANCE	ELEVATION OF LAND SURFACE	REMARKS
						LITHO-LOGY	LOW SURFACE (FEET)	LAND SURFACE (FEET)			
162N054W52R4	A. KEMP	358	3	1948	TLOC	F	36	6-47	7	1662	O
162N054W53C0	A. TRUTHA	400	3	1948	TLOC	F	36	6-47	8	1659	O
162N054W53C1	U. S. S.	60	5	1948	Q641	7P	7	6-66	4	1615	O
162N054W53C2	R. HALVORSSEN	16	60	1948	Q631	S	7	6-66	5	1631	O
162N054W53C3	R. HALVORSSEN	16	60	1948	Q631	S	7	6-66	2	1601	O
162N054W53C4	U. S. S.	50	4	1948	TLOC	P	7P	6-64	6	1607	O
162N054W53C5	U. S. S.	250	5	1948	Q641	TP	6	6-64	6	1682	O
162N054W53C6	U. S. S.	50	5	1948	Q641	TP	6	6-64	6	1753	O
162N054W53C7	U. S. S.	20	3	1915	TLOC	6	12	6-64	5	1715	O
162N054W53C8	U. S. S.	25	24	1910	Q651	S	75	6-64	6	1695	O
162N054W53C9	J. ARMSTRONG	665	3	1957	TLOC	S	56	6-64	6	1711	O
162N054W54C0	R. LARSEN	493	3	1915	TLOC	S	100	6-64	6	1747	O
162N054W54C1	C. BRONEN	25	24	1959	Q651	G	75	6-64	5	1694	O
162N054W54C2	N. HAMMELY	410	3	1961	Q641	6T	12	6-64	6	1684	O
162N054W54C3	F. N. ZEBERLINSKI	250	3	1916	Q651	S	18	6-64	3	1751	O
162N054W54C4	G. KELLEY	100	36	1916	TLOC	S	60	6-64	2	1702	O
162N054W54C5	J. LUDWIGSEN	520	3	1966	TLOC	S	42	6-64	5	1600	O
162N054W54C6	J. W. HARTMAN	360	4	1962	TLOC	S	70	6-64	5	1757	O
162N054W54C7	U. S. S.	200	4	1900	TLOC	S	100	6-64	5	1770	O
162N054W54C8	T. M. BRETT	400	4	1920	TLOC	S	35	6-64	6	1769	O
162N054W54C9	G. THORNTON	317	4	1920	TLOC	S	150	6-64	7	1772	O
162N054W55C0	W. JOGEL	400	3	1929	TLOC	S	61	5-47	6	1768	O
162N054W55C1	L. HASKINSON	675	3	1940	Q651	6T	13	5-47	6	1799	O
162N054W55C2	U. S. S.	182	3	1966	Q651	S	30	5-47	5	1829	O
162N054W55C3	U. S. S.	140	4	1966	Q651	S	17	5-47	1	1851	O
162N054W55C4	U. S. S.	58	54	1966	Q651	S	20	5-47	6	1851	O
162N054W55C5	L. ZIMMEL	70	24	1966	Q651	S	20	5-47	6	1851	O
162N054W55C6	G. MELM	50	48	1966	TLOC	F	50	6-64	6	1851	O
162N054W55C7	H. LARSEN	390	4	1940	Q651	S	75	6-64	6	1851	O
162N054W55C8	K. LARSEN	70	30	1940	Q651	G	90	6-64	6	1851	O
162N054W55C9	A. MELBY	10	4	1920	Q651	S	8	5-51	6	1849	O
162N054W56C0	J. LEE	37	10	1920	Q651	S	8	5-51	6	1849	O
162N054W56C1	G. KNUTSON	360	4	1920	Q651	S	15	5-51	6	1849	O
162N054W56C2	T. KNUTSON	26	39	1920	Q651	S	90	6-64	6	1849	O
162N054W56C3	L. G. KROGER	400	4	1966	TLOC	S	80	6-64	6	1849	O
162N054W56C4	T. JENSEN	600	3	1966	TLOC	R	100	6-64	6	1849	O
162N054W56C5	U. S. S.	610	3	1966	Q652	S	37	8-66	6	1850	O
162N054W56C6	J. H. JOHNSEN	340	1	1966	TLOC	S	100	6-64	6	1850	O
162N054W56C7	K. YUBAAS	710	3	1966	TLOC	S	61	6-64	6	1850	O
162N054W56C8	H. JOHNSEN	450	3	1966	TLOC	S	61	6-64	6	1850	O
162N054W56C9	U. JOHNSEN	465	3	1966	TLOC	S	61	6-64	6	1850	O
162N054W57C0	U. JOHNSEN	650	4	1912	TLOC	S	61	6-64	6	1850	O
162N054W57C1	R. KNUTSON	555	5	1912	TLOC	S	61	6-64	6	1850	O
162N054W57C2	M. JENSEN	550	5	1912	TLOC	S	61	6-64	6	1850	O
162N054W57C3	D. JENSEN	550	3	1912	TLOC	S	61	6-64	6	1850	O

162N087M260C	J BAKHUIS	555	3	H	1965	TLOC		5-47	S	U	N	6	6	1847
162N087M260A	U S G S	609	4	H	1965	TLOC		5-47	S	U	N	6	6	1844
162N087M270A	T LARSON	264	3	H	1965	TLOC	47	5-47	U	N	6	6	1842	
162N087M270D	U S G S	640	4	H	1965	TLOC		5-47	U	N	6	6	1842	
162N087M270D	N JENSEN	320	4	H	1965	TLOC		5-47	K	6	6	1838		
162N087M280D	S JOHNSON	480	3		1928	TLOC		5-47	K	6	6	1838		
162N087M310D		638	4			TLOC	Z1	5-47	S	6	6	1866		
162N087M32RA	R RFL SMY		4			TLOC		5-47	S	6	6	1872		
162N087M32DD91	U S G S	51	1	H	1964	GG41	6G	5-47	U	N	6	5	1870	
162N087M32DD92	U S G S	173	1	H	1964	GG51	R	12-65	U	N	4	4	1870	
162N087M32DD93	F BELMANN	673	1	H	1964	TLOC		5-47	U	N	6	6	1847	
162N087M340A	F BELMANN	96	18	D		TLOC		5-47	H	5	1	1846		
163N084M02DDA1	S SANDERSON	300	3		1954	TLOC		5-47	H	5	1	1846		
163N084M02DDA2	S SANDERSON	80	4		1954	GG51	S	6-64	H	5	5	1612		
163N084M03HD	H SMENSON	314	3		1947	TLOC	F	8-47	U	N	6	6	1826	
163N084M05HAA	U S G S	245	4	H	1947	TLOC		8-47	U	N	6	6	1817	
163N084M05CCC	C HULTER	400	3		1916	TLOC	F	8-47	S	7	7	1628		
163N084M06DDU	H SORENSON	405	4		1916	TLOC		6-64	S	P	5	7	1632	
163N084M07CCC	U S G S	20	1	H	1964	GG51	G	12-65	U	N	6	6	1635	
163N084M08DCC	E SANDOZ	256	4			TLOC		8-47	U	N	6	6	1625	
163N084M10BA	S SANDERSON	300	3			TLOC		6-64	U	N	1	7	1615	
163N084M138A	DAK HULIMAN ESI		4			TLOC		8-47	S	7	7	1612		
163N084M148B	C SANDERSON	370	2			TLOC	F	8-47	S	7	7	1607		
163N084M158B	EDE N VALLEY SC	11	48	D	1928	GG31		3-47	H	5	5	1596		
163N084M1788B	L NEHOUSSI	275	3		1928	TLOC		6-64	S	P	5	6	1630	
163N084M1788B	L BELKEDJAPL	356	3			TLOC		8-47	S	6	7	1635		
163N084M210C	W THOMPSON	280	3			TLOC	F	7-47	S	6	7	1622		
163N084M23CC	MRS SHONG	325	3		1918	TLOC	F	8-47	S	6	7	1607		
163N084M24AAA	E RAUSSE	450	2			TLOC		6-64	S	P	6	7	1607	
163N084M26CC	P BEFLOR	280	3			TLOC		7-47	H	1	1	1624		
163N084M278B	D WALEY	17	48	D		GG31		7-47	H	1	1	1620		
163N084M290D	E WILLES	325	3		1916	TLOC	F	7-47	S	6	6	1623		
163N084M340B6	C WUTTS	340	4			TLOC		6-64	K	P	6	1646		
163N085M01B8	N NELSON	400	3	D		GG51		8-47	K	P	6	7	1656	
163N085M01CU	F MCCURRY	17	36	D		GG31	G	6-64	K	P	5	7	1680	
163N085M03DAJ	W HANSON	425	3		1947	TLOC		8-47	U	N	1	6	1689	
163N085M04DC	U S G S	445	5	H	1947	TLOC		8-47	U	N	1	6	1673	
163N085M058A	J DONAGHAN	376	3			TLOC		8-47	S	6	6	1704		
163N085M072A	F ELTZ	376	3			TLOC		8-47	S	6	7	1708		
163N085M088B	M WALSH	20	36	D		GG51		8-47	S	6	7	1704		
163N085M088B8	M WALSH	378	4		1900	TLOC		6-64	S	P	6	7	1668	
163N085M10BA	G CHAPLAIN	375	3			TLOC		7-47	S	6	7	1652		
163N085M149A	A DESLAURIERES	12	30	D		GG31		8-47	S	5	5	1681		
163N085M15CD	M HASKINS	350	3			TLOC		8-47	S	6	6	1726		
163N085M19LD	J AVO	12	40	J		GG31		9-47	K	6	6	1655		
163N085M23DD	F HAZELTON	16	40	J	1918	GG51		6-64	U	N	5	5	1669	
163N085M249HA	F WILLES	351	4	H	1947	TLOC		8-47	U	N	5	5	1685	
163N085M258B	U S G S	310	6	V	1915	GG51	S	6-64	H	J	5	5	1680	
163N085M26CC	M DANN	20	40	D		GG51		6-64	H	J	5	5	1680	
163N085M29CAD	G LARFELD	20	40	D	1944	TLOC		6-64	S	P	5	5	1729	
163N085M29CAD	L SMITH	465	4			TLOC		6-64	S	P	5	5	1729	

TABLE 1. CONTINUED.

WELL NUMBER	OWNER'S NAME	DEPTH (FEET)	DIAMETER (INCHES)	METHOD OF DEVELOPMENT	DATE DEVELOPED	AQUIFER	LITHOLOGY	DEPTH TO WATER (FEET)	RATE OF RECOVERY (%)	USE OF WATER	LIFT AND POWER	SPECIFIC CONDUCTANCE	ELEVATION AND SURFACE	REMARKS
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
163N058242C	L SMITH	500	3			TLOC			8-47	S	6	8	1721	
163N058243C	C KITTER	350	3			TLOC			8-47	S	6	7	1746	
163N058244C	J ROLAND	500	3			TLOC		100	8-47	S	6	7	1751	
163N058245C	C CHRISTIANSON	400	3			TLOC		48	8-43	S	6	7	1719	
163N058246C	S TRITTS	412	2			Q531		7	6-47	S	6	7	1724	
163N058247C	W MCDERMOTT	403	4	D	1920	TLOC		75	6-64	S	N S	6	1776	D
163N058248C	U S G S	340	4	H	1965	TLOC		84	6-47	S	6	7	1773	FG
163N058249C	L WELSH	480	3	D		TLOC			8-47	S	6	7	1747	
163N058250C	L DESLAURIS	500	3	D		QG		6	8-47	S	1	1741	D	
163N058251C	E KITTER	700	4	D	1916	TLOC		30	6-64	S	P S	1741		
163N058252C	W AABY	716	3 1/2	D	1920	TLOC		140	6-64	K	P S	1777	D	
163N058253C	R JOSS	596	4	D		TLOC		44	6-47	S	1	1800	D	
163N058254C	H HULSTIN	497	3	D		TLOC		64	6-47	S	1	1792	D	
163N058255C	U S G S	20	1	H	1944	Q641	61	5	12-65	U	N	6	1747	FG
163N058256C	A RALTO	375	3			TLOC		60	8-47	K	6	1753	M	
163N058257C	HALVANDY	382	3			TLOC			8-47	K	6	1766		
163N058258C	C JOHNSON	378	3		1900	TLOC		75	8-47	S	6	1771		
163N058259C	A FOSS	280	3	D	1959	Q651	G	50	6-64	K	P S	1770		
163N058260C	H RAPP	34	2 1/2	D		TLOC		9	6-64	H	P S	1620		
163N058261C	U AABOYS	365	3		1920	TLOC		100	8-47	K	P S	1776		
163N058262C	R EMEL	400	4	D		TLOC		45	8-64	K	P F	1808		
163N058263C	A EMEL	11	40	D		Q631		5	5-47	S	P 1	1811	D	
163N058264C	A EMEL	70	36	D		Q651		3	5-47	S	P 1	1811	D	
163N058265C	U S G S	19	1	H	1944	Q631	S	7	12-65	U	N	5	1823	FG
163N058266C	U S G S	40	1	H	1964	Q631	61	8	5-47	S	N	4.4	1823	FG
163N058267C	D NESS	10	3.6	D		Q631		7	11-50	U	P 1	1806	D	
163N058268C	J SHAWER	7	8	D		Q631		5	8-47	U	P 1	1804	D	
163N058269C	C HADJE	24	40	D		Q651		11	5-47	U	P 1	1699	D	
163N058270C	H EMEL	46	24	D		Q651	65	24	5-47	H	P 1	1803	D	
163N058271C	H EMEL	48	24	D	1961	Q651	R	4	5-47	U	P 1	1844	D	
163N058272C	J ASSELS	35	1 1/2	D		Q651		18	6-64	H	J S	1605	D	
163N058273C	M JOHNSON	47	48	D		Q651		13	5-47	H	P 1	1801	D	
163N058274C	U S G S	60	18	D		Q651	65	20	5-47	U	P 1	1845	D	
163N058275C	L ST CROIX	40	18	D	1947	TLOC		17	5-47	U	N	6	1856	D
163N058276C	J ST CROIX	400	3	H	1945	TLOC	R	7	5-47	U	N	5	1853	G
163N058277C	R LINDBLAD	500	3		1920	TLOC		40	6-64	K	P S	1867		
163N058278C	H LINDBLAD	600	3			TLOC		100	6-47	S	P 6	1826		
163N058279C	A HARKNESS	500	3			TLOC		80	6-64	S	P 6	1833		
163N058280C	C HUKDELRIK	12	36	D	1917	Q631	G	6	8-47	H	P 1	1617	D	
163N058281C	E HUKDELRIK	12	24	D		Q6		8	8-47	H	P 1	1626	D	
163N058282C	F HUKDELRIK	24	22	D	1968	Q631	4R	14	6-64	P	T T	1615	D	
163N058283C	SHERWOOD	12	40	D		Q631		9	8-47	S	1	1675	D	
163N058284C	FERGUSTIN	8	48	D		Q631		6	8-47	S	1	1669	D	
163N058285C		4	48	D		Q631		4	7-46	S	6	1635	D	

164N055W36BB	D STOLL	20	40	D		QG51		10	8-47	S	6		1645	0
164N066W31AC	C LINDEMOOD	450	4			TL00		44	5-47	K	6	6	1776	0
164N066W31ADC	C LINDEMOOD	407	3		1935	TL00	S	20	6-64	S	P	5	1775	0
164N066W33BC		400	3					70	6-47	U		6	1764	0
164N066W34DD		20		J		QG51			8-47	K		1	1745	0
164N066W35CD			40	D		QG		6	8-47	S			1741	0
164N067W32CC	D GILBERTSON		48	D		QG		2	5-47	S	N		1799	0
164N067W32CD	D GILBERTSON	25	40			QG51		8	5-47	H		1	1807	0
164N067W35DC	C BELKDAHL	12	40	U		QG31		8	8-47	U		1	1651	0

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TABLE 2.--Records of wells and test holes, Ward County

(See headnotes for table 1, page 12.)

LOCATION NUMBER	OWNER OR NAME	DEPTH OF WELL (FEET)	DIAM. OF WELL (INCHES)	METHOD OF DRILL-DRILL-ED	DATE OF DRILL-ED	AQUIFER	LITHOLOGY	DEPTH TO WATER BELOW LAND SURFACE (FEET)	DATE OF MEASUREMENT	USE OF WATER	LIFT AND POWER	SPECIFIC CONDUCTANCE	ELEVATION OF LAND SURFACE	REMARKS			
														(1)	(2)	(3)	(4)
151N081W01AD	P IVES	20	2			TLOC	Z1	F	50	K	N		1943			44	C
151N081W01CD			2			TLOC	Z1			K	P 6		2030				
151N081W02AA	THAUX TRAEER	56	6	B		TLOC	Z1	30	50	U	N		1950				
151N081W03CB	L KASSNER	130	12	B		Q651	R	110	9-50	K	P 6		2130				
151N081W06AB	C HOHLENDER	250	2			TLOC	Z1	175	9-50	S	P 6		2125				
151N081W06BB	C HOHLENDER	150	2			TLOC	Z1	100	9-50	K	P 6		2133				
151N081W06CB	D ROTELINK	310	5			TLOC	Z1	198	9-50	K	P 5		2143				
151N081W08BB		13	48	D		Q631	R	4	9-50	H	P 6		2146				
151N081W105B	C ANHORN		48	D		Q631	R	2	50	H	P 1		2145				
151N081W108BB	C ANHORN	265	4		1956	TLOC	Z1	235	5-64	K	P T	6	2145	2		58	
151N081W12AB	P IVES	126	12	B		TLOC	Z1	29	50	U	P 6		2061				
151N081W18DA	E BERG	285	2			TLOC	Z1	86	9-50	U	N		2145				
151N081W18DA A1	E BERG	315	3		1942	TLOC	Z1	20	5-64	K	P T	6	2145			52	
151N081W18DA A2	E BERG	298	4		1962	TLOC	Z1	90	5-64	S	P 6		2145				
151N081W19AD 1	U S A F	100	3	H	1961	Q641	6T			U	N		2156				
151N081W19AD 2	B VIOLFTS	300	2			TLOC	Z1	80	9-50	K	P 6		2155				
151N081W20CB	A BERG	290				TLOC	Z1			K	P 5		2155				
151N081W20CB B	A BERG	300	5		1955	TLOC	Z1	100	5-64	K	P 5	5	2155			53	
151N081W21AD 1	T MARTINSON	54				Q631	R	6	9-50	H	P 1		2133				
151N081W21AD 2	T MARTINSON		3			TLOC	Z1			K	P 6		2135				
151N081W22DC	F MARTINSON	54	30	D		Q651	R	6	9-50	H	N		2123				
151N081W24DC	J SCHMERE	10	48	D		Q631	R	2	9-50	U	P 1		2137				
151N081W25BB	H VANDERBERG	13	48	D		Q631	R	9	9-50	U	P 1		2145				
151N081W26BC	A SCHUENBERG	4	48	D		Q631	R	2	9-50	U	N		2140				
151N081W27BA	A SCHUENBERG	11	30	D		Q631	R	6	9-50	H	N		2125				
151N081W27BB	A SCHUENBERG	268	4		1960	TLOC	Z1	60	5-64	K	S S	4	2129				
151N081W28BC	C MUSENG	13	36	D		Q631	R	5	9-50	H	N		2129				
151N081W28CB	C MUSENG					TLOC	Z1	99	9-50	S	P 6		2129				
151N081W29AA	S SCHUENBERG	300	5			TLOC	Z1	131	9-50	K	P 6		2161				
151N081W30AD	E VIOLFT	300	3			TLOC	Z1			K	P 5		2140				
151N081W32CA	J CATULLA	218	4			TLOC	Z1	150	9-50	K	P 6		2145				
151N081W33CC	U S G S	175	4	H	1965					U	N		2177				
151N081W33DA	E RYAN	190	4	H		TLOC	Z1	170	9-50	U	N		2162				
151N081W35AD	H VANDERBERG	11	48	D		Q631	R	4	9-50	H	P 1		2110				
151N081W36CB	U S G S	55	4	H	1965					J	N		2075				
151N082W01CC	H HAUF	250	2			TLOC	Z1	145	50	U	P 6		2092				
151N082W01DA 1	R BAIKE	200	2			TLOC	Z1			K	P 6		2118				
151N082W01DA 2	R BAIKE	18	36	D		Q631	R	8	50	H	N		2114				
151N082W01DA 3	R HAUF	250	4			TLOC	Z1	250	5-64	U	N S		2114				
151N082W02AB	D KUGER		2			TLOC	Z1			U	P 6		2062				
151N082W02BA	U KUGER		2			TLOC	Z1			K	P 6		2050				
151N082W02CB	M SCHUENWALD		2			TLOC	Z1			U	P 6		2066				
151N082W03AD	H POLSEUT		3			TLOC	Z1			U	P 6		2045				
151N082W04AA1	F SCHUENWALD	307	4	V	1950	TLOC	Z1	127	5-64	K	P 5	6	2055			43	
151N082W04AA2	E SCHUENWALD	325	2			TLOC	Z1	70	50	K	P 6		2065				
151N082W05CC	M SCHUENWALD	71	3			Q651	S	29	50	K	P 5		2113				
151N082W06BA	D HANKEL	297	2			TLOC	Z1	235	50	U	P 6		2119				
151N082W07CD	S HONCHROV	15	36	D		Q631	R	9	50	H	N		2155				
151N082W08CA	H BAUER	354	4			TLOC	S	200	50	K	P 5		2137				
151N082W09AD	A KOTCHIAN	290	5			TLOC	Z1	100	50	K	P 6		2133				
151N082W09DA	D KNUTSON	9	24	D		Q631	R	5	50	H	P 1		2105				
151N082W10CB	A KOTCHIAN	20	8			Q631	R	9	50	U	N		2090				
151N082W10CB	M SCHUENWALD	290	5			TLOC	Z1	156	50	S	P 5		2135				





TABLE 2. CONTINUED.

LOCATION NUMBER	OWNER OR NAME	DIAM. OF WELL (INCHES)	METH. OF DRILL-ED	DATE ACQUIFER TESTED	LITHO-LOGY	DEPTH TO SURFACE (FEET)	DATE OF MEASUREMENT	USI WATER METER	SPECFIC GRAVITY	ELEVATION OF LAND SURFACE	REMARKS
151N084420AD	G. JOHNSON	11	B	1963	Q631	8	3-64	H	1.5		
151N084420AD	G. JOHNSON	46	H	1963	Q631	11	3-64	J	1.5		
151N084420AD	U. S. G.	80	H	1966	Q631	5		J	1.5		
151N084420AD	H. HANER	50	H	1963	Q631	25	62	K	1.5		
151N084420AD	E. SAMBOR	251	3	1953	TLOC	79	63	K	1.5		
151N084420AD	E. SAMBOR	240	4	1955	TLOC	73		K	1.5		
151N084420AD	H. HANER	65	18		Q651	49	3-64	J	1.5		
151N084420AD	C. TALBOTT	120	4	1941	Q651	40	3-64	S	1.5		
151N084420AD	C. TALBOTT	45	4	1941	Q651	40	3-64	H	1.5		
151N084420AD	C. TALBOTT	90	24	1943	Q651	30	3-64	H	1.5		
151N084420AD	U. S. G.	28	1	1965	Q631	18	12-65	J	1.5		
151N084420AD	D. MCKAY	12	24	1919	Q631	8	3-64	J	1.5		EC
151N084431B8C1	A. ANDERSON	100	4	1955	TLOC	20	60	K	1.5		
151N084431B8C2	A. ANDERSON	100	6		TLOC	30	3-64	J	1.5		
151N084431B8C3	U. S. F.	100	3	1961	Q651	5	5-61	J	1.5		4 G
151N084434B4	U. S. F.	99	3	1961	Q651	5	5-61	U	1.5		44 G
151N084434B5	U. S. F.	140	24	1944	Q631	8	3-64	K	1.5		44 G
151N084434B6	L. OLSEN	165	18	1959	Q631	17	3-64	S	1.5		10 G
151N084434B7	L. OLSEN	165	18	1959	Q631	17	3-64	S	1.5		
151N084434B8	E. HANSEN	32	24	1939	Q631	6	3-64	K	1.5		
151N084434B9	E. HANSEN	140	4		TLOC	7	5-66	K	1.5		
151N084434B10	P. BLUMH	150	4	1958	TLOC	50	3-64	K	1.5		8
151N084434B11	T. JOHNSON	150	24	1930	Q651	5	5-66	J	1.5		
151N084434B12	F. KRAMER	165	4	1953	TLOC	5	3-64	K	1.5		
151N084434B13	E. WILSON	80	4		TLOC	5	5-66	K	1.5		
151N084434B14	J. BULLOCK	60	24	1949	Q631	5	3-64	K	1.5		
151N084434B15	M. STINKE	220	4	1961	TLOC	35	3-64	K	1.5		
151N084434B16	A. BRANT	60	4	1965	Q651	30	6-66	J	1.5		
151N084434B17	R. SEVERSON	37	36	1960	Q631	5	4-6	J	1.5		
151N084434B18	U. S. G.	27	2	1962	Q631	65	12-65	U	1.5		
151N084434B19	N. D. S. W. C.	31	4	1963	Q631	8	5-62	U	1.5		
151N084434B20	CITY OF RYDER	18	96		Q631	5	63	P	1.5		33
151N084434B21	E. ERB	16			Q631	5		P	1.5		
151N084434B22	N. D. S. W. C.	52		1962	Q651	0	5-62	J	1.5		2101
151N084434B23	R. WAHL	14			TLOC	3	4-62	J	1.5		
151N084434B24	L. BRADLEY	300	1	1966	TLOC	27	8-66	U	1.5		
151N084434B25	L. BRADLEY	170	0	1951	Q631	5	63	U	1.5		EC
151N084434B26	J. JOHNSON	170	6		Q651	5		S	1.5		
151N084434B27	E. FREDSEN	24			Q651	6		S	1.5		
151N084434B28	D. OLNESS	21			Q651	1			1.5		
151N084434B29	RYDER SCHOOL	25			Q651	1			1.5		
151N084434B30	RYDER SCHOOL	16			Q631	16			1.5		
151N084434B31	A. ANDERSON	29			Q651	1			1.5		
151N084434B32	MOTOR INN	48			Q651	1			1.5		
151N084434B33	CREAMERY WELL	304			TLOC		4-62		1.5		
151N084434B34	CREAMERY WELL	304			TLOC		37		1.5		
151N084434B35	CREAMERY WELL	27			Q651	1	64		1.5		
151N084434B36	E. OLSON	60	24	1957	Q651	6R	4-64	S	1.5		
151N084434B37	E. OLSON	60	24	1957	Q651	6R	4-64	S	1.5		
151N084434B38	U. S. F.	100	3	1961	TLOC	F	4-61	J	1.5		6 G 44 D

151N080615AA	E OLSDY	70	24	1955	Q651	S	10	4-64	U	N	3	
151N080619ADU	F JURISUN	150	4		TLOC	S	6	4-64	H	P	5	
151N080621CB	P HANSON	183			TLOC			3-62	K	P	5	
151N080624ADU	E MILSON	166	5		TLOC			5-66	H	P	5	
151N080623UD	P HANSON	29	48	B	Q631	G	7	4-64	K	P	5	
151N080636AA1	A BRANDT	100	24		TLOC	S	20	4-64	K	P	5	
151N080636AA2	A BRANDT	36	24		TLOC	S	30	4-64	K	P	5	
151N080636UD8	U BRANDT	34	30		TLOC	S	150	2-66	H	P	5	
151N080703ADU	J WILLE	110	5		TLOC			5-61	U	N	6	
151N080703UD8	A SAKSAR	101	6		Q651	61	32	5-61	U	N	6	2126
151N080712BAA	R LAKSON	89	24	A	Q651	S	50	5-66	S	P	5	
151N080713CCC	O HEISE	183	5		TLOC	S	50	63	S	P	5	
151N080715AAA	U S G S	210	4	H					U	N	3	
151N080715CCD	U S S	160	4	H					U	N	3	
151N080719CCC	G WARNER	11	24	D	Q631	G	6	5-66	K	P	5	
151N080720AAC	A ENDCKSTN	180	6		TLOC			4-64	K	P	5	
151N080725CCD	H WOLFS	280	5		TLOC			5-64	S	P	5	
151N080725DRA	U S A F	180	4	H	Q651	S	18	5-66	S	P	5	
151N080730LJA	A LIRKUD	103	3		TLOC	RF	6	6-61	U	N	6	2130
152N08081023C	J HEIZELMAN	50	12	B	TLOC	R	60	9-50	U	N	6	1692
152N0808103DA	A VIX	23	18	C	Q631	R	8	9-50	U	P	1	1710
152N08081045B	L SCHLVE	200	2	B	Q631	R	8	9-50	H	P	1	1762
152N0808105AB	E VIX	200	2	B	TLOC	S	1	9-50	U	P	6	1746
152N0808105AB	M HJERTAA	24	12	B	TLOC	Z1	3	9-50	K	P	5	1752
152N081006CC1	M HEIZELMAN	100	4	B	Q631	R	8	9-50	H	P	1	1780
152N081006CC2	M HEIZELMAN	100	4	B	Q631	R	8	5-64	S	P	5	1790
152N081006CC3	P SCHMIDT	100	2		TLOC	S	F	5-64	K	N	5	1790
152N081006R8D	L FEE	250	2		TLOC	S	27	9-50	K	P	5	1755
152N081006RCA	G FAUL	100	12	B	TLOC	Z1	35	9-50	K	P	5	1765
152N081010CCD	J WAGNER	60	12	B	TLOC	Z1	6	9-50	K	P	5	1700
152N081011CCD	P WJAHN	137	3		TLOC	Z1	100	9-50	K	P	6	1745
152N081012R8B	M ARNESIN	54	12	B	TLOC	S	55	9-50	K	P	6	1744
152N081012LJA	J WJAHN	61	12	B	TLOC	Z1	26	9-50	K	P	6	1730
152N0810130A	H WJAHN	39	12	B	TLOC	Z1	29	9-50	U	P	6	1720
152N0810130C	G MILLS	108	13	H	TLOC	Z1	13	9-50	U	P	6	1720
152N0810130D	G KNERN	89	12	H	Q651	61	14	8-61	U	P	6	1750
152N0810130E	A SCHMIDT	93	12	B	TLOC	S	2	1760	U	N	6	1760
152N081019A0	H VARDENBURG	68	12	B	TLOC	Z1	88	9-50	U	N	6	1845
152N081019D0	A KNORR	49	12	B	TLOC	Z1	30	9-50	K	P	5	1855
152N081020B8	A KNORR	106	12	B	TLOC	Z1	10	9-50	K	P	1	1810
152N081020BDD	A KNORR	200	12	B	TLOC	Z1	99	9-50	K	P	1	1890
152N081021BR	L AUCK	120	12	B	TLOC	Z1	76	5-64	U	N	6	1850
152N081021CC	K PULSFUT	76	12	B	Q651	R	30	9-50	K	P	5	1891
152N081023AA	C HEIZELMAN	80	12	B	TLOC	Z1	47	9-50	K	P	5	1882
152N081023AC	O HANNA	43	12	B	TLOC	Z1	18	9-50	K	P	5	1766
152N081023AC	H HODGER	43	18	B	TLOC	Z1	25	9-50	H	P	5	1765
152N081026B8		365	2		TLOC	Z1	25	9-50	S	P	6	1805
152N081029C3		102	2	H	TLOC	TS	36	6-61	K	P	5	1830
152N081030A4		30	18		Q651	R	12	9-50	H	P	1	1862

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TABLE 2. CONTINUED.

LOCATION NUMBER	OWNER OR NAME	DEPTH OF WELL (FEET)	DIAM. OF WELL (INCHES)	METHOD OF DRILLING	DATE	AQUIFER	LITHOLOGY	DEPTH TO LOW LAND SURFACE (FEET)	DATE OF MEASUREMENT	USE OF WATER	LIFT AND POWER	SPECIFIC GRAVITY	ELEVATION OF LAND SURFACE	REMARKS
					ED				FEAT	WATER	POWER	ANAL.	FT	(1) (2) (3) (4)
153N081W15AA	F. FULLE	200	2			TLOC	Z1	100	50	K	P 6		1705	
153N081W15CB	F. J. JOHNSON	205	3			TLOC	Z1	100	50	K	P 6		1703	
153N081W15CC	E. KEMFORD	205	2		1939	TLOC	Z1	100	5-64	K	P 5	5	1703	64
153N081W210B	J. SUTTE	300	2			TLOC	Z1	100	50	K	P 5		1725	
153N081W210D	D. BECK	44	12	B		Q651	R	10	50	K	P 5		1729	
153N081W210DD	D. BECK	340	4		1 42	TLOC	Z1	175	5-64	K	P 5	5	1622	53
153N081W22AB	E. BICK	27	12	B		Q651	P	13	50	K	P 3		1729	
153N081W22CB	C. HEDAH	55	12	B		Q651	P	32	50	H	P 1		1733	
153N081W22CD	C. HEDAH	12	24	D		Q631	R	8	9-51	U	N		1717	
153N081W220B	D. BICK	81	12	B		TLOC	Z1	74	50	K	P 5		1732	
153N081W24AC	N. LEBELT	343	3	B		Q60C	S	31	50	K	P 5		1595	
153N081W24AD	N. LEBELT	352	3	B		Q60C	S	31	50	K	P 5		1595	
153N081W24CD	T. LEBELT	55	12	B		Q651	S	32	50	K	P 5		1722	
153N081W27AA	K. NEUMAY	180	6	B	1909	TLOC	Z1	100	50	K	P 6		1742	53
153N081W290D	R. BUNKE	205	2	B		TLOC	Z1	100	50	K	P 6		1763	
153N081W30AD	J. JOHNSON	382	2	B		TLOC	Z1	100	50	K	P 6		1765	
153N081W31BA	S. LANG	395	2	B		TLOC	Z1	60	50	U	P 1		1794	
153N081W32AB	C. BECKLER	350	3		1910	TLOC	Z1	100	50	K	P 6	6	1773	
153N081W33BB	R. WRELY	209	4			TLOC	Z1	118	50	K	P 6		1732	
153N082W02AD	C. KLIMPEL	129	72	B		TLOC	Z1	118	50	K	P 5		1732	
153N082W03CC	E. KLEMPER	112	12	B		Q631	R	10	50	K	P 4		1613	
153N082W060A	F. KLEMPER	140	24	B		TLOC	Z1	74	50	S	P 6		1905	
153N082W07CC	J. NICKELSON	197	18	B		Q651	R	13	50	K	P 6		1854	
153N082W08CB	C. DRAWZ	105	18	B		Q651	R	16	50	K	P 6		1813	
153N082W10AC	G. PUTNLY	36	18	B		TLOC	Z1	25	50	K	P 6		1773	
153N082W11AA	B. MUREY	200	6	B		TLOC	Z1	50	50	K	P 5	6	1749	
153N082W15AAA	M. KLIMPEL	134	4	C	1944	TLOC	S	100	5-64	K	P 5		1765	
153N082W17CD	N. BARKEN	120	4	C	1941	TLOC	S	13	6-64	K	P 5		1595	
153N082W20CD	D. BLUMS	125	12	B		TLOC	Z1	98	50	K	P 5		1803	
153N082W21CC	E. KRUDER	120	12	B		TLOC	Z1	60	50	K	P 6		1794	
153N082W25DA	M. SAASTAD	120	2	B		TLOC	Z1	76	9-50	K	P 6		1769	
153N082W27AA	R. NEWMAN	180	2	B		TLOC	Z1	120	9-50	K	P 6	6	1979	
153N082W310A	R. SDUM	178	2	D		TLOC	Z1	118	9-50	K	P 6		1943	
153N082W310A	R. SDUM	8	36	D		Q631	P	4	50	S	P 1		1943	
153N082W32AD	F. MCCUBBEN	190	2	B	1910	TLOC	Z1	120	5-64	K	P 5	6	1922	
153N082W33CC	B. BUECHLER	185	2	B		TLOC	Z1	120	9-50	K	P 5		1941	
153N082W35CB	M. REILLY	120	2	B		TLOC	Z1	65	9-50	K	P 6		1865	
153N082W36AD	N. E. NOWOODIST	120	2	B		TLOC	Z1	95	9-50	K	P 5		1938	
153N083W060A	N. E. NOWOODIST	305	2	B		TLOC	V	100	4-66	H	P 5		2005	
153N083W06CD3	J. NOVAK	365	4	C	1905	TLOC	Z1	100	4-66	H	P 5		2005	1
153N083W08AA	J. NOVAK	19	24	B	1960	Q631	S	2	8-50	K	P 1		1935	2
153N083W09DD	C. FOSTER	220	6	B		TLOC	Z1	28	8-50	K	P 6		1949	
153N083W10CC	S. MIKELSON	31	24	B		Q651	S	7	8-50	K	P 1		1923	
153N083W11DB	M. FELD	395	5	B		TLOC	Z1	50	8-50	S	P 6		1905	
153N083W12AB	E. ANDERSON	394	4	D		TLOC	Z1	23	8-50	K	P 6		1845	
153N083W12BC	J. KRUPSKY	22	36	D		Q651	P	14	9-51	K	P 1		1522	
153N083W13BB	U. S. S	84	4	H		TLOC	Z1	28	8-50	H	P 1		1863	
153N083W14AA	A. FELD	97	4	H	1965	Q651	Z1	53	12-50	U	P 5		1893	FE
153N083W14AA	A. FELD	97	4	H		TLOC	Z1	53	12-50	U	P 5		1896	

153N03861702N	F JYLEN	3	<00	ZI	TLOC	ZI	20	R-50	S	P	6	1948
153N03861703N	E RISTICH	2	492	ZI	TLOC	ZI	108	4-64	S	P	6	2028
153N03861704N	CAMPRELL ERYS	12	400	R	TLOC		50	M-50	K	P	6	2049
153N03862006B	CAMPSELLA GARDY	4	250		TLOC		112	8-50	U	N		2085
153N03862007C	U S G S	4	260	H	1965				U	N		2105
153N03862008C	L CARLSON JN	4	614		TLOC	ZI	200	4-64	J	P	5	2062
153N03862009C	L CARLSON JN	4	614	C	1915	F	150	4-64	K	P	5	1975
153N03862010C	K JELTO	4	198		TLOC	ZI	145	5-60	K	P	5	2030
153N03862011C	A MIKELSON	4	18	D	1959			9-50	K	P	1	2076
153N03862012C	S BUELLAJO	9	48		0631		5	8-50	K	P	1	2135
153N03862013C	S GALUSKA	18	180	D	1900		6	8-50	K	P	1	2115
153N03862014C	B BUECHLER	4	180	C	1948	ZI	160	5-66	S	P	5	2140
153N03862015C	R FREDA	3	350	C	1940	ZI	80	5-66	K	P	6	2100
153N03862016A	A MIKELSON	3	260	H	1965	TLOC	70	4-64	K	P	5	1967
153N03862017C	A COERSON JR	4	300	H	1927			12-64	U	N		2020
153N03862018C	U S G S	1	210	H	1965	TLOC	250	12-64	K	N		2062
153N03862019C	U S G S	1	210	H	1965	G	38	12-65	U	N		
153N03862020C	F CARLSON	4	275	H	1959	0652	40	4-64	K	P	5	
153N03862021C	H PETERSON	4	250	H	1959	TLOC	76	4-64	K	P	5	2142
153N03862022C	V LOHSE	18	290	H	1965	0631	5	4-64	K	P	5	2130
153N03862023C	H MIKELSON	4	210	H	1962	TLOC	160	5-66	U	N		2142
153N03862024C	L WASWICK	19	24	H	1940	0631	5	5-66	K	S	4	
153N03862025C	D OPLANN	3	336	D	1936	TLOC	125	4-64	K	P	5	
153N03862026C	G ROBELKE	36	376	D	1935	0651	100	4-64	K	P	1	
153N03862027C	U S G S	4	215	H	1965	TLOC	100		U	N		
153N03862028C	U S G S	4	215	H	1965				H	J	5	
153N03862029C	U S G S	20	48	D	1922	0631	5	66	U	N		
153N03862030C	N LEIFSON	20	48	D	1951	0631	5	5-66	K	S	5	
153N03862031C	U S G S	24	57	B	1949	0651	5	5-66	K	S	5	
153N03862032C	U S G S	4	200	H	1965				U	N		
153N03862033C	U S G S	180	180	H	1965				U	N		
153N03862034C	K UNDERDAHL	96	96	H	1958	0651	60	4-64	K	P	5	
153N03862035C	A BJORDAHL	18	18	D	1965	0651	18	5-66	K	P	5	
153N03862036C	F ZBLITNEY	90	90	D	1950	TLOC	40	4-64	S	P	5	
153N03862037C	B CHAPIN	40	39	D	1940	0631	28	5-66	H	P	5	
153N03862038C	U S A F	101	33	H	1961	0641	61	5-66	U	N		
153N03862039C	E ELLWEIN	65	4	H	1965	0651	15	4-64	K	P	5	
153N03862040C	U S G S	38	1	H	1965	0652	3	12-65	U	N		
153N03862041C	P MAXTRENKO	6	49	D	1965	0652	2	12-65	U	N		
153N03862042C	I HANSON	200	6	D	1944	TLOC	80	4-64	S	P	1	
153N03862043C	E DYER	33	24	B	1965	0631	26	5-66	S	P	5	
153N03862044C	M PELDAHL	115	24	B	1923	TLOC	50	4-64	S	P	5	
153N03862045C	M KILLEN	128	6	B	1934	TLOC	27	4-64	S	P	5	
153N03862046C	H SANDSTROM	109	5	B	1940	TLOC	7	4-64	U	P	1	
153N03862047C	E WELTINOL	80	24	B	1940	0651	5	5-66	K	P	5	
153N03862048C	F SPALLA	120	24	H	1921	0631	10	5-66	S	P	1	
153N03862049C	U S A F	100	3	H	1961	0641	61	5-61	U	N		

16 6 40 0

TABLE 2. CONTINUED.

LOCATION NUMBER	OWNER OR NAME	DEPTH (OF WELL (FFFT))	DIAM. OF WELL (INCRPS)	MTHD-DRILL-ED	DATE	ACQUIFER	LITHO LOSY	DEPTH TO WATER (FT)	MEASURE- OF WATER	DATE OF USE	LEFT AND POWER	SPECIFIC CONDUCT- ARQ.	U-VAIT-N OF LEAD SUB-FAC-	REMARKS		
													(1)	(2)	(3)	(4)
153N08728881	U S G S	30	1	H	1965	0651	G	5		12-65	U N					
153N08728882	U S G S	65	1	H	1965	0651	G	6		12-65	U N					
153N08741888	E SWESTAD	65	24	B	1916	0651	G			5-66	U P 1	6				
153N08743300	C ERICKSON	40	48	D		0651				5-66	U P 1	4				
154N081402AA	K KLEIN	50	18	B		0651	S	14		3-47	S P S		1.41			
154N081404CC	K KLEIN	269	14	B	1950	TLOC		100		9-67	U P S		1.53			
154N081405DD	K KLEIN	85	17	B		0651		20		6-47	U		1.624			
154N081406CC	J KIDDER	60	18	B		0651		20		6-47	U					
154N081408CC	A STRAND	65	18	B		0651		40		6-47	S P S		1.641			
154N081411BA	M KLEIN	250	4	B	1940	TLOC		150		5-64	K P S	6	1.578		7	
154N081418CC	R WHITTED	20	12	B		0651		10		6-47	K P S		1.538			
154N081422AA	V WALDREF	70	4	V		TLOC		12		11-63	K P S	5	1.535		10	
154N081424AA	K ABRAHAMSON	305	4	TLOC				150		6-47	K P S		1.632			
154N081424CC	H HINEY	60	36	D	1922	TLOC		35		6-47	U P 1		1.643			
154N081426CC	H HINEY	175	4	D	1965	TLOC		F		11-63	U P S		1.610			
154N081426CC	A JIMENEZ	225	4	B	1965	TLOC		60		9-67	K P S	6	1.618			
154N081427DD	E KLEIN	365	12	B	1965	TLOC		275		5-64	K P S		1.583			
154N081427DD	E KLEIN	365	12	B	1957	TLOC		275		5-64	K P S	6	1.583			
154N0814308B	G FORRES	35	18	B		0651		22		8-50	H P 1	6	1.532			
154N0814308B	E FORRES	50	18	B	1940	0651		24		8-50	H P 1	6	1.534			
154N081431AC	A SWENSON	44	24	B		0651		25		8-50	K P 4		1.550			
154N0824018A	O REINHARTS	30	3	B		0651		7		6-47	U P 1		1.641			
154N0824028B	O REINHARTS	150	4	TLOC				100		6-47	S P 6		1.634			
154N082403CC	U S G S	94	1	H	1965	0652	R	11		8-65	U P 3		1.527		EG	M
154N082403CC	U S G S	96	1	H	1965	0652	R	13		8-65	U P 3		1.527		EG	M
154N082403CC	U S G S	96	1	H	1967	0652	R	14		8-65	U P 3		1.527		EG	M
154N082403CB1	U S G S STATE	80	13	H	1967	0652	R	14		8-65	U P 4	5	1.527		EG	M
154N082403CB1	U S G S STATE	80	13	H	1965	0652	R	14		8-65	U P 4		1.527		EG	M
154N082403CB2	U S G S	80	1	H	1965	0652	R	14		8-65	U P 4		1.527		EG	M
154N082403CB	A GRANDJE	23	1	D		0651		16		8-50	A P 1		1.525			
154N082404AD	U S G S	233	1	H	1963	0651	R	14		5-66	U N		1.647			
154N082404BA	U S G S	120	1	H	1963	0651	R	17		5-66	U N		1.617			
154N082404CC	A BELTER	54	24	B		0651		45		8-50	K P 5		1.697			
154N082405CD	E MAHONEY	8	36	D		0631		4		8-50	K P 1		1.735			
154N082406CC	J PEARSON	200	4	B		TLOC		45		8-50	K P 1		1.620			
154N082407AA	M GRADTHE	20	8	B		0651		16		8-50	K P 1		1.735			
154N0824106B	U S G S	120	1	H	1966	0651		32		8-60	S P 6		1.735			
154N0824106B	U S G S	120	1	H	1966	0651		32		8-60	S P 6		1.735			
154N0824108B	A MOSTAD	39	24	B		0651		26		8-50	K P 5		1.649		EG	M
154N082413AD	J CAMDREN	29	48	D		0651		20		5-51	U P 1		1.572			
154N082413DC	M SAUGSTAD	41	24	B		0651		11		8-50	K P 5		1.555			
154N0824140A	H HANSON	23	48	D		0651		15		8-50	K P 5		1.532			
154N082418AA	F JOHNSON	130	4	D		0651		14		8-50	H P 2		1.675			
154N082418CC	B IVERSON	146	3	D		0651		40		50	S P 6		1.755			
154N082418CC	B IVERSON	20	12	B		0651		18		6-64	H P 1		1.774			
154N082418CC	E MELTON	70	26	B	1930	0651		7		8-50	H P 1		1.776			
154N082418CC1	E FOLEY	70	26	B	1930	0651		20		6-64	K P F		1.530			
154N0824218B2	E FOLEY	43	24	B		0651		12		8-50	U P 1		1.717			
154N082423CC	L BEETER	48	18	B		0651		12		8-50	U P 1		1.534			
154N082424AB	O FRIEFEN	28	18	B		0651		11		5-66	U P 1		1.545			
154N082424BA	H ROSENBERG	40	1	H	1963	0651		20		8-50	K P 1		1.704			
154N082424BA	H ROSENBERG	40	1	H	1963	0651		20		8-50	K P 1		1.445			
154N082426DD	E MOSTAD	200	4	B		TLOC		5		8-50	S P 6		1.704			
154N082427BA	F JOHNSON	15	24	B		0631		7		8-50	K		1.422			







155N08214009	N. U. S. A. C.	34	5	H	1963	TLOC	S	10	4-63	U		1605	GE	O
155N08214010	N. U. S. A. C.	40	5	H	1955	TLOC	S	10	4-63	U		1612	G	N
155N08214011	U. S. A. C.	40	5	H	1955	TLOC	S	10	4-63	U		1602	G	N
155N08214012	J. WALD	255	6		1941	TLOC		70	7-64	K	P. S	1602	G	N
155N08214013	U. S. A. C.	40	5		1955	TLOC				U		1564	G	N
155N08214014	U. S. A. C.	40	5		1955	TLOC				U		1564	G	N
155N08214015	U. S. A. C.	200	6		1914	TLOC	S	150	6-47	U	P. 6	1576	G	N
155N08214016	L. OHV. BROOKS	130	5		1914	TLOC	S	30	7-64	K	P. 5	1563	G	N
155N08214017	F. K. AFT	200	6		1944	TLOC	S	150	4-47	K	P. 5	1580	G	N
155N08214018	F. K. AFT	165	18		1944	TLOC	S	20	6-47	K	P. 5	1582	G	N
155N08214019	F. BLAUFMAN	55	18		1944	TLOC	S	12	8-46	U	P. 1	1596	G	N
155N08214020	F. BLAUFMAN	80	15		1944	TLOC	S	20	6-63	U	P. 1	1601	G	N
155N08214021	N. U. S. A. C.	80	15		1944	TLOC	S	20	6-63	U	P. 1	1601	G	N
155N08214022	J. THOMPSON	96	4		1963	TLOC	S	71	6-47	K	P. 6	1631	G	N
155N08214023	T. ANDERSON	40	20		1963	TLOC	S	14	6-47	K	P. 6	1631	G	N
155N08214024	G. FUHMAN	39	24		1963	TLOC	S	17	5-47	K	P. 6	1609	G	N
155N08214025	K. TRIPP	72	14		1963	TLOC	S	22	6-47	K	P. 6	1629	G	N
155N08214026	B. NYAK	45	24		1943	TLOC	S	15	4-64	K	P. 5	1635	G	N
155N08214027	H. PARSE	60	16		1963	TLOC	S	20	8-47	U	P. 6	1605	G	N
155N08214028	C. FURTS	25	36		1963	TLOC	S	20	8-47	U	P. 6	1612	G	N
155N08214029	N. U. S. A. C.	25	36		1963	TLOC	S	20	8-47	U	P. 6	1612	G	N
155N08214030	M. SMANSON	63	19		1963	TLOC	S	10	6-63	U	P. 1	1590	GE	O
155N08214031	N. U. S. A. C.	250	3		1963	TLOC	S	80	4-47	K	P. 6	1632	G	N
155N08214032	N. U. S. A. C.	47	5		1963	TLOC	S	6	4-63	U	P. 5	1575	G	N
155N08214033	L. ELSEHAY	28	18		1954	TLOC	S	20	6-47	U	P. 5	1616	G	N
155N08214034	D. L. TEST	7300	11		1954	TLOC	S	6	4-63	U	P. 5	1632	G	N
155N08214035	N. U. S. W. C.	184	5		1963	TLOC	S	39	8-51	U	N	1633	G	N
155N08214036	J. HALERUP	120	4		1958	TLOC	BP	29	6-47	U	N	1643	G	N
155N08214037	U. S. G. S.	95	18		1947	TLOC				S	P. 1	1611	G	N
155N08214038	O. PETERSON	105	18		1947	TLOC				U	N	1595	G	N
155N08214039	G. E. A. V. NURTHERR	180	4		1947	TLOC				U	N	1595	G	N
155N08214040	U. S. U. S.	107	4		1963	TLOC	R	33	66	U	N	1548	EG	M
155N08214041	CITY OF WINDOT	128	4		1952	TLOC				U	N	1553	D	N
155N08214042	CITY OF WINDOT	270	4		1952	TLOC				U	N	1560	D	N
155N08214043	CITY OF WINDOT	142	4		1952	TLOC				U	N	1549	D	N
155N08214044	G. RANDALL	35	18		1955	TLOC	Z1	11	6-47	U	P. 5	1650	D	N
155N08214045	T. NORDBY	65	4		1955	TLOC	Z1	11	6-47	U	P. 5	1650	D	N
155N08214046	L. ENGER	33	36		1958	TLOC	Z1	20	6-47	H	J. S	1591	G	N
155N08214047	N. U. S. G.	195	5		1958	TLOC	BP	63	4-63	U	N	1628	G	N
155N08214048	G. R. R. TEST 2	410	12		1955	TLOC		7		U		1629	GE	O
155N08214049	G. R. R. TEST 1	390	8		1954	TLOC				U		1640	GE	O
155N08214050	E. EHR	32	21		1954	TLOC	S	19	8-50	U	P. 5	1628	G	N
155N08214051	D. KAUFFMAN	120	3		1963	TLOC	S	28	6-47	K	P. 5	1636	G	N
155N08214052	E. MARTIN	90	6		1963	TLOC	R	24	7-46	K	P. 5	1631	G	N
155N08214053	U. S. U. S.	105	1		1963	TLOC	S	48	5-66	U	N	1545	EG	M
155N08214054	L. SCHMIDT	50	24		1963	TLOC	S	12	8-50	K	P. 5	1605	G	N
155N08214055	T. ANDERSON	40	24		1963	TLOC	S	30	8-50	U	P. 5	1606	G	N
155N08214056	F. EHR	75	2		1963	TLOC	S	30	8-50	K	P. 6	1709	G	N
155N08214057	E. KENNEDY	40	24		1963	TLOC	S	31	8-50	K	P. 6	1560	G	N
155N08214058	J. WOLF	10	36		1963	TLOC	R	1	8-50	K	P. 1	1548	G	N



155N0844070DC1	H DORSON	516	4	1920	TLOC	ZI	90	7-64	K	S S	
155N0844070DC2	H DORSON	316	4	1920	TLOC	ZI	90	7-64	K	P S	
155N0844090CC	E BEHM	300	5	1933	TLOC		15	7-64	K	U S	
155N0844100AD	D DAVY	27	24	1933	Q651	S	19	7-64	K	U S	4
155N0844118DD	K JOHNSON	640	5	1960	TLOC	ZI	137	7-64	K	P S	
155N0844198BA	E DIRK	329	4	1912	TLOC	ZI	90	7-64	K	P S	
155N085402CCC	B WUTTK	220	4	1919	TLOC	ZI	30	7-64	K	S S	
155N0854060AA	H RESHEM	200	4	1919	TLOC	ZI	21	7-64	K	S S	
155N0854084DA	C HANNE SSV	217	4	1965	TLOC		15	7-64	K	P S	
155N0854110DD	U S G S	220	4	1965	TLOC	ZI	F		K	P S	L
155N0854150DD	C STEWICK	400	4	1915	TLOC	ZI	25	7-64	K	P S	
155N0854184AA	H ROBERTS	146	4	1915	TLOC	ZI	30	7-64	K	P S	
155N0854187CA	N JEFFERY	145	5	1915	TLOC	ZI	30	7-64	K	P S	
155N0854198AA	F BROWN	230	4	1925	TLOC	ZI	F		K	S S	5
155N0854260AD	F MCCURMAK	130	4	1925	TLOC	ZI	F		K	P S	6
155N085436AAD	C DAVY	130	4	1925	TLOC	ZI	60	7-64	K	S S	
155N086401AAA	L MANN	230	4	1954	TLOC	ZI	65	7-64	K	P S	5
155N086409AAA	U S G S	189	5	1954	TLOC	ZI	50	7-64	K	P S	
155N0864110DU	E KILLENE	245	5	1952	TLOC	ZI	180	7-64	K	P S	
155N0864128AA	L MANN	358	5	1952	TLOC	ZI	180	7-64	K	P S	
155N0864140AA	H RANNT	520	4	1964	TLOC	ZI	17	5-66	K	P S	
155N0864146AA	J S GULLS	40	24	1964	TLOC	ZI	17	5-66	K	P S	
155N086421AAA	U S G S	178	5	1958	TLOC	S	6	12-65	K	P S	
155N0864248BB	U S G S	50	1	1965	Q651	R	100	7-64	K	P S	4
155N0864280CC	C BERG	275	4	1942	Q651	S	110	5-66	K	P S	5
155N087404DD4	M RUMVIG	180	4	1964	TLOC	ZI	110	5-66	K	P S	3
155N087410BDD1	M RUMVIG	260	4	1957	TLOC	ZI	19	12-65	K	P S	5
155N087410BDD2	H BIRDSALL	100	4	1965	Q651	S	12	12-65	K	P S	5
155N087417ABA	U S G S	38	1	1965	Q651	S	19	12-65	K	P S	5
155N087417B81	U S G S	100	1	1965	Q651	S	12	12-65	K	P S	5
155N087417B82	U S G S	100	1	1965	Q651	R			K	P S	5
155N087417B83	U S G S	120	4	1965	Q651	R			K	P S	5
155N0874280CC	U S G S	120	4	1965	TLOC				K	P S	5
155N0884280CC	D HATLEY	165	5	1965	TLOC				K	P S	5
156N081402CC	SIMONSON RFD5	290	4		TLOC				K	P S	6
156N081402DD	H HATLEY	140	4		TLOC				K	P S	1
156N081403AAA	F HANLON	176	6		TLOC				K	P S	6
156N0814048A	A BEATON	380	4		TLOC				K	P S	6
156N0814094CB	T FRANK	275	5		TLOC				K	P S	6
156N081409DBB	U S G S	140	4		TLOC				K	P S	6
156N081409DBA	C HANLON	140	4		TLOC				K	P S	6
156N0814110CC	E LERIG	238	5		TLOC				K	P S	6
156N0814111AC	SIMONSON RFD5	235	5		TLOC				K	P S	6
156N0814120C	W BURTZFIELD	200	48		Q651	G	9	6-47	K	P S	6
156N081415AA	C MATTHEW	226	6		TLOC				K	P S	6
156N081417CC	EMBERTSON B-P3	226	6		TLOC				K	P S	6
156N081417CCC	U S G S	138	4		TLOC				K	P S	6
156N081422BB	G RONNIE	40	24		Q651		35	6-47	K	P S	6
156N081423BC	U S G S	40	24		Q651		9	5-47	K	P S	6
156N081425AA	J KUPFER	250	4		TLOC				K	P S	6
156N081426CD	H BURSCH	327	5		TLOC	G	10	6-47	K	P S	6
156N081430AA	H BURSCH	327	5		TLOC		14	6-47	K	P S	6
156N081430AD	L ARSON	327	5		TLOC		14	6-47	K	P S	6
156N081435AD	C MAURER	11	36		Q651		7	7-47	K	P S	6
156N082402ACA	M REARICK	5	36		Q651	G	2	7-65	K	P S	6

TABLE 2. CONTINUED.

LOCATION NUMBER	OWNER OR NAME	DEPTH OF WELL (FEET)	DIAM. OF WELL (INCHES)	METHOD OF DRILL-ED	DATE	AQUIFER	LITHO-LOGY	DEPTH TO WATER RE-SURFACE (FEET)	DATE OF MEASURE-MENT	USE OF WATER	LIFT AND POWER	SPECIFIC CONDUCT-ANCE	ELEVATION OF LAND SURFACE	REMARKS
														(1) (2) (3) (4)
156N082M04AA	U. S. G.	158	4	H	1958	OG51		8	50	U	N		1615	G
156N082M04AB	U. S. G.	132	4	D		TL0E		80	6-47	K	P	5	1612	N
156N082M04AC	D. LIVINGSTON	132	4	D		OG51		13	6-47	K	P	5	1631	N
156N082M04AD	M. MILLER	330	4	B		TL0E		130	6-47	U	P	5	1615	N
156N082M04AE	G. MILLER	330	4	B		TL0E		130	6-47	U	P	5	1604	N
156N082M04AF	T. ANDERSON	350	4	B		TL0E		12	6-47	K	P	5	1601	N
156N082M04AG	G. SOLBERG	41	32	B	1958	OG51			6-47	U	N		1611	G
156N082M04AH	U. S. G.	158	4	H	1958	TL0E		50	6-47	U	P	6	1625	G
156N082M04AI	U. S. G.	137	4	H	1958	TL0E		200	6-47	U	P	6	1621	N
156N082M04AJ	C. KALKER	250	4	B		TL0D		10	6-47	K	P	6	1638	N
156N082M04AK	E. KOTASEK	300	4	B		TL0D		10	6-47	K	P	6	1631	N
156N082M04AL	M. HAMBECK	401	4	B		TL0D		100	6-47	K	P	6	1627	N
156N082M04AM	M. FINBERG	35	24	B	1928	OG51	G	29	4-64	H	P	5	1605	N
156N082M04AN	C. HAMBECK	350	4	D		TL0N		100	6-47	K	P	5	1602	N
156N082M04AO	S. LASKOWSKI	25	48	D		OG51		50	50	K	P	5	1635	N
156N082M04AP	S. LASKOWSKI	300	3	H	1958	TL0C		100	6-47	K	P	5	1623	N
156N082M04AQ	E. LARSON	189	4	H	1958	OG51	G	25	6-47	U	P	6	1641	N
156N082M04AR	C. KEMAL	26	18	B		OG51		10	6-47	U	P	6	1636	N
156N082M04AS	H. HAMILTON	45	18	B		OG51		27	6-47	U	P	6	1623	N
156N082M04AT	U. S. G.	116	4	H	1958	TL0C		80	4-64	U	N		1625	G
156N082M04AU	U. S. G.	220	5	H	1947	TL0F		80	6-47	K	P	5	1610	G
156N082M04AV	M. KORDEL	300	4	V		TL0C		80	6-47	K	P	5	1611	G
156N082M04AW	A. SOLEBERG	325	4	H	1958	TL0C		80	6-47	J	N		1626	G
156N082M04AX	U. S. G.	195	4	H	1958	OG51	G	20	4-64	U	P	1	1756	G
156N082M04AY	U. S. G.	179	4	H	1958	TL0C		100	4-64	U	P	1	1755	G
156N082M04AZ	E. WERNER	52	12	B	1942	TL0C		10	4-64	S	P	5	1690	N
156N082M04BA	N. LIVINGSTON	40	24	B	1944	OG51	G	10	4-64	S	P	5	1653	N
156N082M04BB	N. LIVINGSTON	40	24	B	1944	OG51	G	10	4-64	S	P	5	1653	N
156N082M04BC	E. REID	30	18	B	1982	OG51	G	18	4-64	S	P	5	1620	N
156N082M04BD	A. KORDEL	52	24	B	1952	OG51	G	27	4-64	S	P	5	1621	N
156N082M04BE	L. AUGUST	24	18	B	1953	OG51	G	10	4-64	H	J	5	1608	N
156N082M04BF	N. LIVINGSTON	43	24	H	1958	OG51	G	38	4-64	H	J	5	1623	N
156N082M04BG	U. S. G.	82	4	H	1965	OG51	R	8	12-65	U	N		1623	N
156N082M04BH	U. S. G.	82	4	H	1965	OG51	R	8	12-65	U	N		1623	N
156N082M04BI	SUNSET MEM GAR	80	4	H	1954	OG51	G			U	N		1623	N
156N082M04BJ	C. LINNERTZ	90	4	H	1954	OG51	G			U	N		1750	N
156N082M04BK	C. LINNERTZ	707	4	H	1932	TL0D	71			S	P	5	1741	N
156N082M04BL	U. S. G.	300	4	H	1966	TL0D		200	8-66	U	N	5	1753	N
156N082M04BM	R. LINNERTZ	320	3	C	1963	OG52	R	10	63	K	S	5	1735	N
156N082M04BN	T. WILSON	193	4	H	1959	TL0C	S	10		U	N		1572	N
156N082M04BO	U. S. G.	147	4	H	1959	TL0C	S	10		U	N		1742	N
156N082M04BP	U. S. G.	42	4	H	1959	TL0D		20	62	U	N	5	1583	N
156N082M04BQ	U. S. G.	63	4	H	1959	TL0D		20	62	U	N	5	1583	N
156N082M04BR	R. PATTSCHET	150	2	H	1962	OG51	G		63	H	P	5	1583	N
156N082M04BS	R. PATTSCHET	150	2	H	1962	OG51	G		63	H	P	5	1583	N
156N082M04BT	L. MYKARD	30	36	H	1963	OG51	S		63	S	P	1	1542	N

1565036421BDA1	E	WORLD	4	1966	TLOC	S	20	5-66	K	S	6	1600
1565036421BDA2	C	AMSLCI	36	1936	0651	S	23	03	H	P	6	1800
1565036421BDA3	D	KRYES	26	1949	0651	S			U	P	6	1322
1565036421BDA4	H	USGS	116	1959					U	N	6	1578
1565036421BDA5	H	USGS	126	1959					U	N	6	1568
1565036421BDA6	H	USGS	173	1958					U	N	6	1572
1565036421BDA7	H	KARKNES	56	1960	TLOD	Z1	34	63	U	N	6	1610
1565036421BDA8	D	DISCRET	13	1961	0631	S			H	J	4	1793
1565036421BDA9	D	DISCRET	13	1965	0631	R	10	5-66	H	J	4	1793
1565036421BDA10	H	USGS	103	1965					U	N	6	1650
1565036421BDA11	H	USGS	103	1965					U	N	6	1650
1565036421BDA12	H	USGS	163	1963					U	N	6	1552
1565036421BDA13	H	USGS	34	1963					U	N	6	1552
1565036421BDA14	D	DISCRET	260	1909	0651	R	120	5-66	H	P	6	1600
1565036421BDA15	H	JMESHAM	233	1914	TLOC		7		K	P	6	1600
1565036421BDA16	H	USGS	270	1965					U	N	6	1600
1565036421BDA17	J	JANSTAP	30	1939	0651	S			H	P	6	1600
1565036421BDA18	L	RESLJ	48	1965	0631	G	6	5-66	U	P	6	1600
1565036421BDA19	L	USGS	210	1953	TLOC	S			U	P	6	1600
1565036421BDA20	H	USGS	160	1958					K	U	6	1600
1565036421BDA21	H	USGS	117	1951	TLOC	RP	12		U	U	6	1600
1565036421BDA22	H	JALLSHOUSE	24	1951	0651	BP	18	5-61	U	N	6	2149
1565036421BDA23	H	USGS	178	1958	TLOC	BP	18		U	N	6	2149
1565036421BDA24	H	USGS	101	1961	0641	6T	18		U	N	6	2149
1565036421BDA25	H	USGS	210	1958	TLOC	7P	90		U	P	6	2149
1565036421BDA26	H	USGS	277	1927					U	P	6	2149
1565036421BDA27	H	USGS	287	1918	TLOC	7P			U	U	6	2149
1565036421BDA28	H	USGS	210	1958	TLOC	7P	112		U	U	6	2149
1565036421BDA29	H	USGS	220	1958	TLOC	6P			U	P	6	2149
1565036421BDA30	H	USGS	210	1958	TLOC	7S			U	N	6	2149
1565036421BDA31	H	USGS	210	1958	TLOC	7P			U	N	6	2149
1565036421BDA32	H	USGS	200	1958	TLOC	7P			U	U	6	2149
1565036421BDA33	H	USGS	172	1958	TLOC	80			U	U	6	2149
1565036421BDA34	H	USGS	105	1958	0641	6T			U	U	6	2149
1565036421BDA35	H	USGS	189	1958	TLOC	8P			U	U	6	2149
1565036421BDA36	H	USGS	400	1965	TLOC	S	300	5-66	H	S	6	2149
1565036421BDA37	H	USGS	513	1949	TLOC	Z1	230	5-66	H	S	6	2149
1565036421BDA38	H	USGS	170	1961	0631	S	10	5-66	H	P	4	2231
1565036421BDA39	H	USGS	176	1961	0651	6T	5	5-61	U	N	6	2231
1565036421BDA40	H	USGS	137	1916	0651	S	60	15-66	K	P	5	2231
1565036421BDA41	H	USGS	189	1958	TLOC	7P	5	5-66	U	P	5	2231
1565036421BDA42	H	USGS	21	1958	0600	6T			U	U	6	2231
1565036421BDA43	H	FLAHERTY	80	1958	0651	6T			K	P	5	2231
1565036421BDA44	H	USGS	302	1958	0641	6T			U	U	6	2231
1565036421BDA45	H	USGS	63	1958	0641	6T			U	U	6	2231
1565036421BDA46	H	GULLWEK	260	1962	TLOC	S	200	5-66	U	P	6	2231
1565036421BDA47	H	USGS	200	1965					U	P	6	2231
1565036421BDA48	H	USGS	36	1965	0631	G	3	7-65	K	N	1	1642
1565036421BDA49	H	USGS	143	1930					K	N	1	1642
1565036421BDA50	H	USGS	170	1930	TLOC		35	6-64	K	P	6	1642
1565036421BDA51	H	USGS	260	1949	TLOC		40	6-64	K	P	6	1642
1565036421BDA52	H	USGS	320	1949	TLOC		80	7-65	K	P	6	1642
1565036421BDA53	H	USGS	250	1910	TLOC		60	6-64	S	P	7	1572

TABLE 2. CONTINUED.

LOCATION NUMBER	WATER NAME	DEPTH OF WELL (FEET)	DIA. OF WELL (INCHES)	METHD. OF DRILL-ED	DATE DRILL-ED	AQUIFER	LITHOLOGY	DEPTH TO WATER		DATE OF MEASUREMENT	USE OF WATER	LIFT AND POWER	SPECIFIC CONDUCT-ANCE	ELEVATION OF LAND SURFACE	REMARKS
								WATER SURFACE (FEET)	WATER TABLE (FEET)						
157N031471ADA?	UNIDENTIFIED	443	4	C	1958	TLOC		75	6-64		S	P S	1572		
157N031466LLO	W. K. H. H. H.	394	5	C	1914	TLOC		90	6-64		K	P S	1560		
157N031464AA1	J. H. H. H.	400	4	C	1920	TLOC		50	6-64		K	P S	1588		
157N031463AA2	J. H. H. H.	450	4	B	1916	TLOC		35	7-65		K	P S	1598		
157N031461LLO	W. K. H. H.	30	12	H	1965	Q651	G	10	12-65		U	P T	1590		
157N031460LLO	W. K. H. H.	38	4	H	1965	Q651	R	40	7-65		U	N	1611	D	
157N031459LLO	W. K. H. H.	48	4	H	1910	TLOC		60	7-64		K	P S	1615		
157N031458LLO	W. K. H. H.	400	4	H	1910	TLOC		120	7-64		K	P S	1622		
157N031457LLO	W. K. H. H.	180	6	H	1915	TLOC		50	7-65		K	P S	1622		
157N031456LLO	W. K. H. H.	200	6	H	1915	TLOC		120	7-65		K	P S	1622		
157N031455LLO	W. K. H. H.	71	1	H	1965	Q651	R	6	12-65		U	N S	1602	EG	
157N031454LLO	W. K. H. H.	525	4	H	1957	TLOC		6	7-64		U	N S	1605	M	
157N031453LLO	W. K. H. H.	210	4	H	1947	TLOC		80	7-64		U	N S	1619	G	
157N031452LLO	W. K. H. H.	200	4	H	1954	TLOC		80	7-64		U	N S	1645	G	
157N031451LLO	W. K. H. H.	405	3	H	1929	TLOC		3	7-65		U	N S	1622	D	
157N031450LLO	W. K. H. H.	710	4	H	1965	Q651	S	3	7-65		K	P S	1710	EG	
157N031449LLO	W. K. H. H.	110	4	H	1930	Q651	S	6	7-65		K	P S	1685	EG	
157N031448LLO	W. K. H. H.	32	4	H	1963	Q651	S	6	7-65		K	P S	1687	EG	
157N031447LLO	W. K. H. H.	410	4	H	1947	TLOC		300	7-65		U	N S	1696	G	
157N031446LLO	W. K. H. H.	300	4	H	1960	TLOC		150	7-65		U	N S	1715	G	
157N031445LLO	W. K. H. H.	405	4	H	1947	TLOC		76	7-65		U	N S	1770	G	
157N031444LLO	W. K. H. H.	255	4	H	1921	TLOC		77	5-66		K	P T	1770		
157N031443LLO	W. K. H. H.	500	4	C	1916	Q651	S	150	7-65		K	P T	1740		
157N031442LLO	W. K. H. H.	200	4	H	1963	TLOC		90	7-65		K	P T	1690	5	
157N031441LLO	W. K. H. H.	476	4	H	1959	TLOC		17	7-65		K	P T	1750		
157N031440LLO	W. K. H. H.	35	4	H	1965	Q651	G	15	7-65		K	P T	1759		
157N031439LLO	W. K. H. H.	30	4	H	1965	TLOC		13	7-65		K	P T	1772		
157N031438LLO	W. K. H. H.	208	5	H	1963	Q651	S	30	7-65		K	P T	1759		
157N031437LLO	W. K. H. H.	44	24	H	1943	Q651	S	15	63		K	P T	1772		
157N031436LLO	W. K. H. H.	25	30	H	1943	Q651	S	15	63		K	P T	1596		
157N031435LLO	W. K. H. H.	104	4	H	1947	Q641	S	17	5-61		U	N S	1730		
157N031434LLO	W. K. H. H.	400	4	H	1961	Q641	S	17	5-61		U	N S	1990		
157N031433LLO	W. K. H. H.	200	4	J	1952	TLOC		145	5-66		K	P S	2194	5 G 44 0	
157N031432LLO	W. K. H. H.	250	4	C	1916	TLOC		50	5-66		K	P S	2093		
157N031431LLO	W. K. H. H.	200	4	C	1959	TLOC		60	5-66		K	P S			
157N031430LLO	W. K. H. H.	350	3	C	1949	TLOC		50	5-66		K	P S			
157N031429LLO	W. K. H. H.	101	3	H	1961	Q641	S	10	5-61		U	N S			
157N031428LLO	W. K. H. H.	216	3	C	1932	TLOC		160	5-66		K	P S			
157N031427LLO	W. K. H. H.	195	6	C	1917	TLOC		165	11-62		K	P S			
157N031426LLO	W. K. H. H.	200	4	C	1916	TLOC		10	5-66		U	N S			
157N031425LLO	W. K. H. H.	102	3	C	1954	Q651	S	16	5-61		U	N S	2207		
157N031424LLO	W. K. H. H.	112	3	C	1901	Q651	S	5	5-66		K	P S			
157N031423LLO	W. K. H. H.	116	4	C	1906	Q651	S	31	6-66		K	P S			
157N031422LLO	W. K. H. H.	175	4	C	1916	TLOC		22	6-61		U	N S	2042		
157N031421LLO	W. K. H. H.	252	4	C	1961	Q641	S	22	6-61		U	N S	2029		
157N031420LLO	W. K. H. H.	100	3	H	1961	Q641	S	33	6-61		U	N S			
157N031419LLO	W. K. H. H.	33	18	H	1960	Q651	S	5	6-66		U	N S			



1580374726CLB	4	1956	TLOC	651	ZI	45	6-66	P S	6	
1590374735CLC	4	1920	TLOC	651		180	6-66	K		
1590374736CLD	4	1916	TLOC	651		40	6-66	S		
1590374737CLF	3	1961	TLOC	651		11	5-61	U N	G	43 0
1590374738CLG	3		TLOC	651		10	7-65	K		
1590374739CLH	3		TLOC	651		75	7-65	S		
1590374740CLJ	3		TLOC	651		100	7-65	S		
1590374741CLK	3		TLOC	651		87	7-61	U N	G	43 0
1590374742CLL	3		TLOC	651		91	7-61	U N		
1590374743CLM	3		TLOC	651		95	6-66	K		
1590374744CLN	3		TLOC	651		97	6-66	K		
1590374745CLO	3		TLOC	651		99	6-66	K		
1590374746CLP	3		TLOC	651		25	5-61	U N	G	42 0
1590374747CLQ	3		TLOC	651		20	6-66	K		
1590374748CLR	3		TLOC	651		30	6-61	U N	G	44
1590374749CLS	3		TLOC	651		30	6-66	H		
1590374750CLT	3		TLOC	651		30	7-65	K		
1590374751CLU	3		TLOC	651		17	6-66	H		
1590374752CLV	3		TLOC	651		14	7-65	K		
1590374753CLW	3		TLOC	651		7	7-65	H		
1590374754CLX	3		TLOC	651		13	5-61	U N	G	43 0
1590374755CLY	3		TLOC	651		17	7-65	S		
1590374756CLZ	3		TLOC	651		75	7-65	S		
1590374757CL1	3		TLOC	651		80	7-65	K		
1590374758CL2	3		TLOC	651		35	12-65	K		
1590374759CL3	3		TLOC	651		25	7-65	K		
1590374760CL4	3		TLOC	651		14	6-61	U N	G	43 0
1590374761CL5	3		TLOC	651		12	7-65	K		
1590374762CL6	3		TLOC	651		60	7-65	S		
1590374763CL7	3		TLOC	651		60	6-66	K		
1590374764CL8	3		TLOC	651		80	7-65	K		
1590374765CL9	3		TLOC	651		13	5-61	U N	G	
1590374766CL0	3		TLOC	651		10	6-66	H		
1590374767CL1	3		TLOC	651		8	6-66	H		
1590374768CL2	3		TLOC	651		120	7-65	S		
1590374769CL3	3		TLOC	651		21	9-66	U N	G	44 0
1590374770CL4	3		TLOC	651		48	9-66	U N	G	
1590374771CL5	3		TLOC	651		34	5-66	U N	G	
1590374772CL6	3		TLOC	651		10	7-65	U N	G	600
1590374773CL7	3		TLOC	651		10	7-65	U N	G	
1590374774CL8	3		TLOC	651		30	7-65	K		
1590374775CL9	3		TLOC	651		30	7-65	K		
1590374776CL0	3		TLOC	651		16	6-66	S		
1590374777CL1	3		TLOC	651		10	5-62	U N	G	
1590374778CL2	3		TLOC	651		26	5-61	U N	G	

LOCATION	NUMBER	OWNER OR NAME	DEPTH	DIA. OF WELL	METHOD	DATE	LITHO	ADQUIFER	LOSS	DEPTH TO WATER BE-LOW LAND SURFACE (FEET)	DATE OF MEASURE-MENT	USF OR WATER METER	LIFT SPECIFIC AND CONDUCT-ANCE	FLUATIGN (FEET)	MARKS
160N09W15AAA	33	B PUMARLO	33	24	R	1950	S	21	5	6-66	U	P 1	7	2011	N
160N09W17BBB	60	U S G S	60	4	H	1965	U			6-66	U				N
160N09W20AAA	140	W RINNFELD	140	3	C	1942	Z1	50	130	6-66	H	P 3	5		N
160N09W20AAA	140	L BAUER	410	3	C	1950	T10C			6-66	K	P 5	6		N
160N09W250DD	70	U S G S	70	4	H	1966	U			6-66	U				N
160N09W30DD	A	THELEN			C	1910	T10C	21	90	6-66	K	P 5	5	2014	N
160N09W31BBB	G	JONSON	650	3	C	1910	T10C			6-66	U	P 6			N
160N09W31BBB	C	MELSON	14	24	H	1952	G	4	4	7-65	K	P 1			N
161N088W05AAA	110	U S G S	110	5	H	1952					U				G
161N088W05BAA	250	U S G S	250		H	1952					U				G
161N088W05BBB	340	U S G S	340	5	H	1952					U				G
161N088W10BBB	150	U S G S	150		H	1965					U				G
161N088W20BAA	A	HANSON	23	8	R	1921	R	27	18	12-65	U	N	4	1907	H
161N088W20BAA	103	U S A F	103	3	H	1961	6T	14	14	8-61	U	M		1923	D
161N088W22BBB	215	D BARD	215		H	1965					U				D
161N088W31DDA	131	U S B R	131			1949					U				G

(1) (2) (3) (4)

TABLE 2, CONTINUED.

TABLE 3.--Water levels in selected wells

Water levels are referred to land surface datum (lsd). MP means measuring point.

151-83-26bab. Test hole. Artesian observation well in glaciofluvial material; diam  $1\frac{1}{4}$  in, depth 90 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 19, 1965	8.69	Dec. 30, 1965	9.98	May 11, 1966	10.90
Sept. 13	8.83	Jan. 31, 1966	10.45	June 6	10.82
Oct. 23	9.00	Mar. 14	11.06	Aug. 3	11.10
Nov. 23	9.66				

151-83-35cdc. Test hole. Artesian observation well in glaciofluvial material; diam  $1\frac{1}{2}$  in, depth 111 ft, plastic casing. MP - top of plastic pipe 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 6, 1966	92.00	July 7, 1966	92.13	Aug. 3, 1966	92.18

151-84-6ddc. Test hole. Water-table observation well in glaciofluvial material; diam  $1\frac{1}{4}$  in, depth 75 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	2.00	Nov. 23, 1965	2.01	May 11, 1966	2.10
Aug. 19	2.00	Dec. 30	2.87	June 6	2.31
Sept. 13	2.11	Jan. 31, 1966	Frozen	Aug. 3	2.96
Oct. 23	2.25	Mar. 14	Frozen		

151-84-29ddd. Test hole. Water-table observation well in glaciofluvial material; diam  $1\frac{1}{4}$  in, depth 28 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	19.55	Nov. 23, 1965	19.53	May 11, 1966	19.98
Aug. 4	18.02	Dec. 30	19.96	June 6	20.50
Aug. 19	19.97	Jan. 31, 1966	19.83	Aug. 3	20.79
Sept. 13	19.75	Mar. 14	Frozen	Aug. 10	20.17
Oct. 23	19.68				

151-86-5cbb. Test hole. Artesian observation well in glaciofluvial material; diam  $1\frac{1}{4}$  in, depth 90 ft, plastic casing. MP - top of plastic casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 9, 1966	20.75	Sept. 14, 1966	27.31	Oct. 12, 1966	27.25

152-85-2bc. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 100 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	46.01	Nov. 23, 1965	45.15	May 11, 1966	45.08
Aug. 19	45.22	Dec. 30	45.25	June 6	44.50
Sept. 13	45.20	Jan. 31, 1966	45.08	Aug. 3	45.10
Oct. 23	45.25	Mar. 14	45.05	Oct. 4	45.29

152-85-35ddal. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 65 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	7.90	Oct. 23, 1965	6.63	Mar. 14, 1966	6.36
Aug. 11	6.17	Nov. 23	7.32	May 11	6.25
Aug. 19	6.36	Dec. 30	7.59	June 6	6.30
Sept. 13	6.31	Jan. 31, 1966	Frozen	Aug. 3	6.92

152-85-35dda2. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 108 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	8.29	Nov. 23, 1965	6.32	May 11, 1966	4.05
Aug. 11	7.22	Dec. 30	6.76	June 6	5.68
Aug. 19	7.36	Jan. 31, 1966	Frozen	Aug. 3	6.00
Sept. 13	7.38	Mar. 14	5.45		

152-87-16aaa. Test hole. Water-table observation well in glaciofluvial material;  
diam 1½ in, depth 17 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
July 26, 1966	9.06	Aug. 4, 1966	9.13	Oct. 5, 1966	10.00

152-87-17ccc. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 117 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	40.40	Nov. 23, 1965	36.59	May 11, 1966	36.50
Aug. 19	37.12	Dec. 30	36.73	June 6	36.39
Sept. 13	36.98	Jan. 31, 1966	36.62	Aug. 3	39.52
Oct. 23	36.68	Mar. 14	36.76		

152-87-28add. Test hole. Artesian observation well in glaciofluvial material;  
dian 1½ in, depth 150 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	29.02	Nov. 23, 1965	25.75	May 11, 1966	25.40
Aug. 19	26.22	Dec. 30	26.40	June 6	25.35
Sept. 13	26.10	Jan. 31, 1966	25.66	Aug. 3	26.57
Oct. 23	26.00	Mar. 14	25.69		

153-81-3cbc. Test hole. Artesian observation well in glaciofluvial material;  
dian 1½ in, depth 54 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 9, 1966	10.38	Sept. 14, 1966	10.47	Oct. 12, 1966	10.35

153-83-13bbb. Test hole. Artesian observation well in glaciofluvial material;  
dian 1½ in, depth 96 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	59.93	Nov. 23, 1965	59.06	May 11, 1966	59.31
Aug. 19	59.35	Dec. 30	59.13	June 6	59.28
Sept. 14	59.27	Jan. 31, 1966	59.16	Aug. 3	59.38
Oct. 28	59.15	Mar. 14	59.20		

153-84-7abal. Test hole. Artesian observation well in glaciofluvial material;  
dian 1½ in, depth 40 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	6.15	Nov. 23, 1965	6.23	May 24, 1966	5.10
Aug. 19	6.73	Dec. 30	6.31	June 6	6.01
Sept. 14	6.25	Jan. 31, 1966	7.25	Aug. 3	6.84
Oct. 23	6.16	Mar. 14	7.84		

153-84-7aba2. Test hole. Artesian observation well in glaciofluvial material;  
dian 1½ in, depth 210 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	36.39	Nov. 23, 1965	33.53	May 24, 1966	35.24
Aug. 19	33.99	Dec. 30	35.56	June 6	35.31
Sept. 14	33.37	Jan. 31, 1966	35.35	Aug. 11	35.29
Oct. 23	33.50	Mar. 14	35.26		

153-85-24dcd. Test hole. Water-table observation well in glaciofluvial material;  
diam 1½ in, depth 13 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 3, 1966	4.03	Sept. 14, 1966	5.31	Oct. 4, 1966	6.15

153-86-34cdd1. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 38 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	2.19	Nov. 23, 1965	2.68	May 11, 1966	0.77
Aug. 19	2.78	Dec. 30	2.72	June 6	1.17
Sept. 13	2.75	Jan. 31, 1966	Frozen	Aug. 3	2.21
Oct. 23	2.58	Mar. 14	Frozen		

153-86-34cdd2. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 193 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	+2	Nov. 23, 1965	+2	May 11, 1966	+2
Aug. 19	+2	Dec. 30	+2	June 6	+2
Sept. 13	+2	Jan. 31, 1966	+2	Aug. 3	+2
Oct. 23	+2	Mar. 14	+2		

153-87-23bbb1. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 30 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	2.29	Nov. 23, 1965	4.92	May 11, 1966	6.19
Aug. 19	3.62	Dec. 30	4.99	June 6	4.43
Sept. 13	3.92	Jan. 31, 1966	6.28	Aug. 3	4.09
Oct. 23	4.00	Mar. 14	7.10		

153-87-28bbb2. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 65 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	6.26	Nov. 23, 1965	6.11	May 11, 1966	6.39
Aug. 19	5.66	Dec. 30	6.13	June 6	4.52
Sept. 13	6.06	Jan. 31, 1966	8.08	Aug. 3	5.30
Oct. 23	6.02	Mar. 14	8.99		

154-82-3cac. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 84 ft, plastic casing. MP - top of plastic casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Sept. 15, 1965	11.01	Dec. 30, 1965	11.09	May 5, 1966	11.12
Oct. 6	11.20	Jan. 31, 1966	11.13	June 6	11.21
Nov. 23	11.18	Mar. 15	11.09	Aug. 3	11.19

154-82-3c6a. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 96 ft, plastic casing. MP - top of plastic casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Sept. 15, 1965	11.75	Dec. 30, 1965	11.71	May 5, 1966	11.59
Oct. 6	11.65	Jan. 31, 1966	11.62	June 6	11.64
Nov. 23	11.65	Mar. 15	11.73	Aug. 3	11.71

154-82-3cdb1. Test hole. Artesian observation well in glaciofluvial material;  
diam 3 in, depth 30 ft, plastic casing. MP - top of concrete base at lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
1965	14.08	Dec. 30, 1965	13.37	May 5, 1966	12.47
Sept. 15, 1965	14.10	Jan. 31, 1966	11.93	June 6	12.31
Oct. 6	13.78	Mar. 15	10.65	Aug. 3	13.23
Nov. 23	13.31				

154-82-3cdb2. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 30 ft, plastic casing. MP - top of plastic casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Sept. 15, 1965	13.44	Dec. 30, 1965	13.53	May 5, 1966	13.58
Oct. 6	13.64	Jan. 31, 1966	13.60	June 6	13.83
Nov. 23	13.61	Mar. 15	13.65	Aug. 3	13.71

154-82-4aad. Test hole. Water-table observation well in glaciofluvial material;  
diam 1½ in, depth 233 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Nov. 19, 1963	15.80	Sept. 14, 1964	15.50	May 12, 1965	14.94
Jan. 8, 1964	15.65	Oct. 9	15.40	June 17	14.41
Mar. 4	16.58	Nov. 6	15.38	Aug. 11	14.37
Apr. 7	16.67	Dec. 10	15.32	Sept. 15	14.53
May 5	16.47	Jan. 11, 1965	15.48	Nov. 22	14.63
June 12	14.87	Feb. 17	15.42	Jan. 31, 1966	14.69
July 2	15.48	Mar. 16	15.27	Mar. 15	14.56
Aug. 5	15.33	Apr. 12	15.16	May 5	14.30

154-82-4aba. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 120 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Nov. 15, 1963	13.27	Sept. 14, 1964	13.79	June 17, 1965	12.20
Jan. 9, 1964	13.67	Oct. 9	13.72	Aug. 11	12.74
Feb. 4	13.67	Nov. 6	13.62	Sept. 15	12.57
Mar. 4	15.65	Dec. 6	13.45	Nov. 22	12.63
Apr. 7	14.93	Jan. 11, 1965	13.79	Jan. 31, 1966	12.74
May 5	13.98	Feb. 17	13.64	Mar. 15	12.48
June 12	13.36	Mar. 16	13.49	May 5	12.05
July 2	13.20	Apr. 12	13.19		
Aug. 5	13.58	May 12	13.06		

154-82-10bbb. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 120 ft, plastic casing. MP - top of plastic casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 6, 1966	17.01	Aug. 3, 1966	17.51	Sept. 4, 1966	Well destroyed
July 13	17.34				

154-82-24aba. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 40 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 9, 1964	13.44	Nov. 6, 1964	12.37	Sept. 15, 1965	11.67
Feb. 4	13.40	Dec. 10	12.27	Oct. 22	11.53
Mar. 4	13.69	Jan. 11, 1965	12.34	Nov. 23	11.50
May 5	12.94	Feb. 17	12.36	Dec. 30	11.46
June 12	12.90	Mar. 16	12.23	Jan. 31, 1966	11.48
July 2	12.63	Apr. 12	11.72	Mar. 15	11.14
Aug. 5	12.07	May 12	11.47	May 5	10.93
Sept. 14	12.53	June 17	10.84		
Oct. 9	12.46	Aug. 11	12.47		

154-86-28ada. Test hole. Water-table observation well in glaciofluvial material;  
diam 1½ in, depth 27 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 19, 1965	8.01	Dec. 30, 1965	8.28	May 11, 1966	8.13
Sept. 13	8.11	Jan. 31, 1966	8.31	June 6	7.98
Oct. 23	8.03	Mar. 14	8.29	Aug. 3	8.13
Nov. 23	8.21				

154-87-14ddd. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 80 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	50.61	Nov. 23, 1965	44.70	May 11, 1966	45.61
Aug. 19	43.48	Dec. 30	44.75	June 6	45.41
Sept. 13	44.35	Jan. 31, 1966	45.80	Aug. 3	45.12
Oct. 23	44.52	Mar. 14	45.92		

155-82-19dbd. Test hole. Artesian observation well in glaciofluvial material;  
diam 4½ in, depth 107 ft, plastic casing. MP - top of plastic casing 1.40 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Nov. 21, 1963	34.16	Sept. 14, 1964	38.34	Sept. 15, 1965	35.94
Jan. 8, 1964	37.75	Oct. 9	37.91	Nov. 22	35.48
Feb. 3	38.00	Jan. 11, 1965	38.03	Feb. 1, 1966	32.86
Mar. 4	38.28	Feb. 17	38.02	Mar. 15	32.21
Apr. 7	39.56	Mar. 16	37.72	May 5	31.78
May 5	38.20	Apr. 12	37.26	Oct. 5	32.51
June 12	38.44	May 12	37.30		
July 2	38.62	June 17	36.84		
Aug. 5	39.20	Aug. 11	36.82		



155-82-29bcb. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 105 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Nov. 19, 1963	27.58	Sept. 14, 1964	28.40	May 12, 1965	27.61
Jan. 9, 1964	27.85	Oct. 9	28.15	June 17	27.13
Feb. 3	28.15	Nov. 6	28.02	Aug. 11	27.22
Mar. 4	28.53	Dec. 10	27.87	Sept. 15	26.48
Apr. 7	28.72	Jan. 11, 1965	27.99	Nov. 22	25.96
May 5	28.43	Feb. 17	28.19	Jan. 31, 1966	24.90
June 12	28.05	Mar. 16	27.98	Mar. 15	24.35
July 2	28.17	Apr. 12	27.65	May 5	24.12
Aug. 5	29.22				

155-83-lccc. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 30 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 13, 1965	8.29	Nov. 22, 1965	2.90	May 12, 1966	4.13
Aug. 19	3.30	Dec. 30	2.98	June 6	4.24
Sept. 15	3.42	Jan. 31, 1966	3.05	Aug. 3	4.76
Oct. 27	2.63	Mar. 14	3.78	Oct. 5	4.91

155-83-4aaa. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 420 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1966	219.48	Sept. 15, 1966	218.46	Oct. 5, 1966	217.82
Aug. 4	219.53				

155-83-9aaa1. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 50 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Sept. 15, 1965	5.68	Dec. 30, 1965	6.43	May 12, 1966	7.62
Oct. 6	6.12	Jan. 31, 1966	7.12	June 6	7.13
Nov. 23	5.97	Mar. 15	7.43	Aug. 3	6.73

155-83-9aaa2. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 260 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Sept. 15, 1965	219.63	Dec. 30, 1965	218.48	May 12, 1966	31.82
Oct. 6	219.64	Jan. 31, 1966	218.31		
Nov. 23	219.04	Mar. 15	218.25		

155-83-12ccc1. Test hole. Artesian observation well in glaciofluvial material; diam 4½ in, depth 80 ft, plastic casing. MP - top of plastic casing 0.65 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 9, 1964	37.04	Sept. 12, 1964	36.22	May 12, 1965	36.53
Mar. 4	37.20	Oct. 9	35.95	June 16	36.72
Apr. 7	37.25	Nov. 6	35.92	Aug. 19	36.05
May 5	36.90	Dec. 10	35.67	Oct. 27	35.57
June 12	37.13	Jan. 11, 1965	36.02	Nov. 22	35.35
July 2	37.15	Feb. 17	36.26	Jan. 31, 1966	36.29
July 22	36.55	Mar. 16	36.36	Mar. 15	35.72
Aug. 5	36.05	Apr. 12	36.52	May 6	35.86

155-83-12ccc2. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 326 ft, plastic casing. MP - top of plastic casing 1.30 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Feb. 14, 1964	217.50	Sept. 14, 1964	218.21	May 12, 1965	217.81
Mar. 4	215.54	Nov. 6	217.75	June 16	218.20
Apr. 7	215.45	Dec. 10	217.16	Aug. 19	213.95
May 5	207.70	Jan. 11, 1965	217.52	Oct. 28	217.86
June 12	214.90	Feb. 17	217.67	Jan. 31, 1966	217.64
July 2	216.03	Mar. 16	217.85	Mar. 15	217.13
Aug. 5	216.70	Apr. 12	217.33	May 6	216.87

155-83-14cda. Minot municipal well 10. Artesian production well in glaciofluvial material; diam 12 in, depth 139 ft, steel casing. MP - center of air-line gage 4.29 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 30, 1963	57.0	June 1, 1964	62.0	Aug. 2, 1965	59.5
Mar. 30	56.5	July 1	65.0	Sept. 1	60.5
May 1	42.5	Sept. 1	60.5	Oct. 1	58.5
June 1	57.5	Oct. 1	60.5	Nov. 1	58.5
July 1	56.5	Nov. 1	58.5	Dec. 1	58.5
July 29	58.5	Dec. 1	58.5	Jan. 1, 1966	56.5
Aug. 30	58.5	Jan. 1, 1965	58.5	Feb. 1	58.5
Sept. 30	58.5	Feb. 2	60.5	Feb. 28	55.5
Oct. 30	58.5	Mar. 1	58.5	Apr. 1	55.5
Jan. 2, 1964	60.5	Apr. 1	58.5	May 1	54.5
Feb. 1	62.5	May 1	60.5	June 1	50.5
Mar. 2	62.5	June 1	60.5	July 1	50.5
Apr. 1	62.0	July 1	59.5	Aug. 1	52.5
May 1	62.0				

155-83-14dca. Minot municipal well 9. Artesian production well in glaciofluvial material; diam 12 in, depth 152 ft, steel casing. MP - center of air-line gage 4.30 ft above lsd. Measurements from air-line gage reported to nearest ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 30, 1963	56	July 1, 1964	66	Oct. 1, 1965	60
May 1	53	Sept. 1	64	Nov. 1	58
June 1	58	Oct. 1	62	Dec. 1	58
July 1	58	Nov. 1	62	Jan. 1, 1966	56
July 29	61	Dec. 1	62	Feb. 1	56
Aug. 30	63	Jan. 1, 1965	63	Feb. 28	54
Sept. 30	62	Feb. 2	66	Apr. 1	54
Oct. 30	60	Mar. 1	62	May 1	53
Jan. 2, 1964	62	Apr. 1	62	June 1	49
Feb. 1	64	May 1	62	July 1	50
Mar. 2	63	June 1	62	Aug. 1	52
Apr. 1	64	July 1	59		
May 1	64	Aug. 1	59		
June 1	64	Sept. 1	60		

155-83-14dcc. Minot municipal well 4. Artesian production well in glaciofluvial material; diam 14 in, depth 155 ft, steel casing. MP - center of air-line gage 4.60 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 27, 1963	65.0	Nov. 2, 1964	72.0	Oct. 1, 1965	65.5
Oct. 30	68.5	Dec. 1	70.0	Dec. 1	65.0
Jan. 2, 1964	70.0	Jan. 1, 1965	70.0	Jan. 1, 1966	63.0
Feb. 3	71.0	Feb. 2	71.0	Feb. 28	63.0
Mar. 7	70.5	Mar. 1	70.0	Apr. 1	62.0
May 1	71.0	Apr. 1	70.0	May 1	61.0
June 1	72.0	June 1	70.0	June 1	58.0
July 1	70.0	Aug. 1	67.0	July 1	57.0
Sept. 1	72.0	Sept. 1	66.5	Aug. 1	60.0
Oct. 1	71.0				

155-83-14ddd1. Minot municipal well 5. Artesian production well in glaciofluvial material; diam 12 in, depth 147 ft, steel casing. MP - center of air-line gage 4.65 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 30, 1963	58.0	June 1, 1964	65.0	Aug. 2, 1965	60.0
Mar. 31	58.0	July 1	63.5	Sept. 1	60.0
May 1	59.0	July 31	64.5	Oct. 1	62.5
June 1	59.5	Sept. 1	64.5	Nov. 1	61.5
July 1	59.5	Oct. 1	64.5	Dec. 1	61.0
July 29	61.5	Nov. 2	63.5	Dec. 29	59.0
Aug. 30	62.5	Dec. 1	62.0	Jan. 1, 1966	58.0
Sept. 30	62.5	Jan. 1, 1965	62.0	Feb. 28	58.0
Oct. 30	62.5	Feb. 2	64.5	Apr. 1	59.0
Jan. 2, 1964	62.0	Mar. 1	63.5	May 1	57.0
Feb. 1	64.0	Apr. 1	63.5	June 1	54.0
Mar. 2	64.5	May 1	63.5	July 1	53.0
Apr. 1	64.5	June 1	62.5	Aug. 1	56.5
May 1	64.5	July 1	62.0		

155-83-14ddd2. Minot municipal well 6. Artesian production well in glaciofluvial material; diam 16 in, depth 139 ft, steel casing. MP - center of air-line gage 5.15 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 30, 1963	53.0	June 1, 1964	65.0	Aug. 2, 1965	60.0
Mar. 31	58.5	July 1	64.0	Sept. 1	61.0
May 1	57.5	July 31	65.0	Oct. 1	60.0
June 1	59.0	Sept. 1	64.0	Nov. 1	60.0
July 1	59.0	Oct. 1	64.0	Dec. 1	59.0
July 29	61.0	Nov. 2	64.0	Dec. 29	57.0
Aug. 30	62.0	Dec. 1	63.0	Feb. 1, 1966	56.0
Sept. 30	62.0	Jan. 1, 1965	63.0	Feb. 28	56.0
Oct. 30	62.0	Feb. 2	65.0	Apr. 1	56.0
Jan. 2, 1964	63.0	Mar. 1	64.0	May 1	55.0
Feb. 1	64.5	Apr. 1	63.0	June 1	52.0
Mar. 2	64.5	May 1	63.0	July 1	51.0
Apr. 1	64.0	June 1	62.0	Aug. 1	54.5
May 1	64.0	July 1	61.0		

155-83-21daa. Minot municipal well 18. Artesian production well in glaciofluvial material; diam 12 in, depth 99 ft, steel casing. MP - center of air-line gage 5.03 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Nov. 30, 1961	43.0	Aug. 30, 1963	62.5	May 1, 1964	63.0
Jan. 30, 1963	57.0	Sept. 30	63.5	June 1	63.5
Mar. 30	59.0	Oct. 30	64.0	July 1	63.5
May 1	58.0	Jan. 2, 1964	64.0	July 31	63.0
June 1	60.5	Feb. 1	63.0	Sept. 1	64.0
July 1	62.0	Mar. 2	62.5		Well destroyed
July 29	62.0	Apr. 1	63.0		

155-83-22abc. Minot municipal well 15. Water-table production well in glaciofluvial material; diam 12 in, depth 115 ft, steel casing. MP - center of air-line gage 4.74 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 30, 1961	43.0	June 1, 1964	69.0	Aug. 2, 1965	62.5
Jan. 30, 1963	59.0	July 1	69.0	Sept. 1	64.0
Mar. 30	59.0	July 31	70.0	Oct. 1	63.5
June 1	61.5	Sept. 1	69.0	Nov. 1	64.0
July 1	62.0	Oct. 1	69.0	Dec. 1	61.0
July 29	64.5	Nov. 2	69.0	Jan. 1, 1966	57.0
Aug. 30	65.0	Dec. 1	68.0	Feb. 1	54.0
Sept. 30	66.0	Jan. 1, 1965	67.0	Feb. 28	53.0
Oct. 30	66.5	Feb. 2	67.0	Apr. 1	51.0
Jan. 2, 1964	65.5	Mar. 1	68.0	May 1	50.0
Feb. 1	64.5	Apr. 1	68.0	June 1	51.0
Mar. 2	66.0	May 1	68.0	July 1	53.0
Apr. 1	66.0	June 1	65.0	Aug. 1	55.0
May 1	67.0	July 1	63.0		

155-83-22acc. Minot municipal well 14. Artesian production well in glaciofluvial material; diam 12 in, depth 105 ft, steel casing. MP - center of air-line gage 4.83 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 30, 1961	44.0	May 1, 1964	65.0	July 1, 1965	60.0
Jan. 30, 1963	57.5	June 1	66.0	Aug. 2	60.0
Mar. 30	58.5	July 1	66.0	Sept. 1	61.5
May 1	58.5	July 31	66.0	Oct. 1	62.0
June 1	59.5	Sept. 1	67.0	Nov. 1	62.0
July 1	61.5	Oct. 1	66.5	Dec. 1	57.0
July 29	63.5	Nov. 1	66.0	Jan. 1, 1966	52.0
Aug. 30	64.5	Dec. 1	66.0	Feb. 1	50.0
Sept. 30	65.0	Jan. 1, 1965	65.0	Feb. 28	49.0
Oct. 30	64.5	Feb. 2	65.0	Apr. 1	48.0
Jan. 2, 1964	65.0	Mar. 1	66.0	May 1	47.0
Feb. 1	64.0	Apr. 1	66.0	June 1	48.0
Mar. 2	64.0	May 1	66.0	July 1	50.0
Apr. 1	65.0	June 1	62.0	Aug. 1	53.0

155-83-22ada. Minot municipal well 12. Artesian production well in glaciofluvial material; diam 12 in, depth 120 ft, steel casing. MP - center of air-line gage 5.20 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Nov. 30, 1961	49.0	May 1, 1964	69.0	July 1, 1965	65.0
Jan. 30, 1963	59.0	June 1	71.0	Aug. 2	65.5
Mar. 30	60.0	July 1	70.0	Sept. 1	65.0
May 1	60.0	July 31	72.0	Oct. 1	64.0
June 1	62.5	Sept. 1	71.0	Nov. 1	64.0
July 1	62.5	Oct. 1	70.5	Dec. 1	63.0
Aug. 1	63.0	Nov. 2	68.5	Jan. 1, 1966	60.0
Aug. 30	67.0	Dec. 1	67.0	Feb. 1	56.5
Sept. 30	67.5	Jan. 1, 1965	67.0	Feb. 28	55.0
Oct. 30	68.5	Feb. 2	68.5	Apr. 1	53.5
Jan. 2, 1964	67.5	Mar. 1	68.0	May 1	53.0
Feb. 1	68.0	Apr. 1	68.0	June 1	53.0
Mar. 2	68.0	May 1	69.5	July 1	54.0
Apr. 1	68.0	June 1	68.0	Aug. 1	55.5

155-83-22adc. Minot municipal well 13. Artesian production well in glaciofluvial material; diam 12 in, depth 115 ft, steel casing. MP - center of air-line gage 4.50 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 30, 1961	45.5	May 1, 1964	68.0	July 1, 1965	63.5
Jan. 30, 1963	58.5	June 1	69.0	Aug. 2	64.5
Mar. 30	59.5	July 1	69.5	Sept. 1	64.0
May 1	59.5	July 31	69.5	Oct. 1	64.5
June 1	61.5	Sept. 1	70.0	Nov. 1	65.5
July 1	62.5	Oct. 1	69.5	Dec. 1	61.5
July 29	64.5	Nov. 2	68.5	Jan. 1, 1966	58.5
Aug. 30	67.0	Dec. 1	67.5	Feb. 1	56.5
Sept. 30	68.0	Jan. 1, 1965	66.5	Feb. 28	56.5
Oct. 30	68.0	Feb. 2	67.5	Apr. 1	52.5
Nov. 30	67.0	Mar. 1	67.5	May 1	52.5
Jan. 2, 1964	66.5	Apr. 1	67.5	June 1	51.5
Feb. 1	66.5	May 1	68.0	July 1	54.5
Mar. 2	67.0	June 1	66.5	Aug. 1	55.5
Apr. 1	67.5				

155-33-22bcd. Minot municipal well 17. Artesian production well in glaciofluvial material; diam 12 in, depth 87 ft, steel casing. MP - center of air-line gage 4.75 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 30, 1961	41.0	Sept. 30, 1963	63.0	July 1, 1964	63.5
Jan. 30, 1963	56.0	Oct. 30	63.0	July 31	63.0
Mar. 30	57.0	Jan. 2, 1964	63.0	Sept. 1	63.5
May 1	57.0	Feb. 3	62.5	Oct. 1	64.0
June 1	60.0	Mar. 2	62.5	Nov. 2	63.5
July 1	60.0	Apr. 1	62.5	Dec. 1	64.0
July 29	61.0	May 1	63.0		
Aug. 30	62.0	June 1	63.5		

155-33-22bcd. Minot municipal well 16. Artesian production well in glaciofluvial material; diam 12 in, depth 111 ft, steel casing. MP - center of air-line gage 4.71 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 30, 1961	42.0	Oct. 30, 1963	66.5	Sept. 1, 1964	67.0
Jan. 30, 1963	58.5	Jan. 2, 1964	65.0	Jan. 1, 1966	56.0
Mar. 30	62.0	Feb. 1	64.5	Feb. 1	48.0
May 1	59.0	Mar. 2	64.5	Feb. 26	48.0
June 1	58.5	Apr. 1	65.5	Apr. 1	43.0
July 1	62.0	May 1	65.5	May 1	47.0
July 29	65.0	June 1	66.5	June 1	50.0
Aug. 30	65.0	July 1	66.5	July 1	51.0
Sept. 30	66.0	July 31	66.5	Aug. 1	54.0

155-33-23bab. Minot municipal well 3. Artesian production well in glaciofluvial material; diam 16 in, depth 132.5 ft, steel casing. MP - center of air-line gage 5.46 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 30, 1963	58.5	May 1, 1964	67.0	July 1, 1965	63.0
Mar. 31	64.5	June 1	69.0	Aug. 2	62.0
May 1	64.5	July 1	66.5	Sept. 1	64.5
June 1	60.0	July 31	68.5	Oct. 1	62.5
July 1	61.0	Sept. 1	68.5	Nov. 1	62.5
Aug. 1	61.5	Oct. 1	67.5	Dec. 1	61.5
Aug. 30	63.5	Nov. 2	67.5	Dec. 29	60.5
Sept. 30	64.5	Dec. 1	65.5	Feb. 1, 1966	58.5
Oct. 30	65.5	Jan. 1, 1965	65.5	Feb. 28	58.5
Nov. 30	65.5	Feb. 2	67.5	Apr. 1	56.5
Jan. 2, 1964	65.5	Mar. 1	66.5	May 1	56.5
Feb. 1	67.0	Apr. 1	65.5	June 1	52.5
Mar. 2	67.0	May 1	66.0	July 1	52.5
Apr. 1	67.0	June 1	65.0	Aug. 1	54.5

155-83-23bbd. Minot municipal well 11. Artesian production well in glaciofluvial material; diam 12 in, depth 130 ft, steel casing. MP - center of air-line gage 4.75 ft above lsd. Measurements from air-line gage reported to nearest 0.5 ft.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Jan. 30, 1961	48.0	Mar. 2, 1964	63.0	Sept. 1, 1965	62.0
Jan. 30, 1963	55.0	Apr. 1	63.0	Oct. 1	62.0
Mar. 30	57.0	May 1	63.0	Nov. 1	62.0
May 1	56.0	June 1	66.0	Dec. 1	60.0
June 1	56.0	July 1	a/71.05	Jan. 1, 1966	57.0
July 1	57.0	Aug. 1	a/72.25	Feb. 1	55.0
July 29	57.0	Mar. 1, 1965	64.0	Feb. 28	54.0
Aug. 30	60.0	Apr. 1	62.5	Apr. 1	53.0
Sept. 30	62.0	May 1	62.5	May 1	53.0
Oct. 30	62.5	June 1	62.0	June 1	50.0
Jan. 2, 1964	62.0	July 1	62.5	July 1	50.0
Feb. 1	62.5	Aug. 2	55.5	Aug. 1	52.0

155-86-24bbb. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 50 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 19, 1965	6.49	Dec. 30, 1965	6.13	May 5, 1966	8.63
Oct. 28	6.03	Jan. 31, 1966	3.78	June 6	8.51
Nov. 22	6.07	Mar. 14	8.87	Aug. 3	8.61

155-87-17bab1. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 38 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 19, 1965	18.83	Dec. 30, 1965	19.25	May 5, 1966	19.15
Oct. 27	19.06	Jan. 31, 1966	Frozen	June 6	19.06
Nov. 23	19.19	Mar. 14	Frozen	Aug. 3	18.97

155-87-17bab2. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 100 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 19, 1965	12.20	Dec. 30, 1965	12.20	May 5, 1966	12.13
Sept. 27	12.06	Jan. 31, 1966	Frozen	June 6	12.28
Oct. 23	12.07	Mar. 14	Frozen	Aug. 3	12.31
Nov. 23	12.07				

156-83-25bbc. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 82 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Sept. 15, 1965	7.47	Dec. 30, 1965	7.79	May 12, 1966	8.48
Oct. 27	7.40	Feb. 1, 1966	8.53	June 6	8.42
Nov. 24	7.66	Mar. 15	9.34	Aug. 3	8.49

a/ Measured with steel tape

156-87-15cdd. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 70 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 17, 1965	6.77	Dec. 30, 1965	5.12	May 5, 1966	5.09
Aug. 19	6.12	Jan. 31, 1966	5.26	June 6	5.13
Oct. 23	5.12	Mar. 14	5.17	Aug. 3	5.12
Nov. 23	5.09				

157-82-14bbb. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 71 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 20, 1965	4.39	Dec. 30, 1965	5.51	May 12, 1966	4.22
Sept. 15	4.46	Feb. 1, 1966	8.11	June 6	5.01
Oct. 27	5.01	Mar. 15	9.31	Aug. 3	5.31
Nov. 24	5.47				

158-81-36bbb. Test hole. Water-table observation well in glaciofluvial material;  
diam 1½ in, depth 13 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 20, 1965	7.89	Dec. 30, 1965	7.15	May 12, 1966	7.23
Sept. 15	7.09	Feb. 1, 1966	7.90	June 6	7.15
Oct. 27	6.87	Mar. 15	7.80	Aug. 3	7.23
Nov. 24	6.97				

158-82-10aad1. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 34 ft, plastic casing. MP - top of plastic casing 2.3 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Oct. 23, 1964	13.30	May 12, 1965	12.93	Feb. 1, 1966	11.39
Dec. 11	14.09	June 13	11.79	Mar. 15	9.11
Jan. 12, 1965	14.76	Aug. 18	11.57	May 12	7.74
Feb. 18	15.13	Sept. 14	12.02	June 6	7.68
Mar. 17	15.58	Oct. 27	11.37	Aug. 3	8.21
Apr. 13	15.65	Dec. 30	11.72		

158-82-10aad2. Test hole. Artesian observation well in glaciofluvial material;  
diam 1½ in, depth 240 ft, plastic casing. MP - top of plastic casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Oct. 23, 1964	15.64	May 12, 1965	15.20	Feb. 1, 1966	15.19
Dec. 11	15.44	June 16	15.23	Mar. 15	15.13
Jan. 12, 1965	15.46	Aug. 18	15.45	May 12	15.19
Feb. 18	15.41	Sept. 14	15.39	June 6	15.23
Mar. 17	15.44	Oct. 27	15.36	Aug. 3	15.32
Apr. 13	15.32	Dec. 30	15.42		



158-82-26ccc. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 40 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 20, 1965	5.43	Dec. 30, 1965	5.30	May 12, 1966	2.96
Sept. 15	5.32	Feb. 1, 1966	6.73	June 6	4.06
Oct. 27	5.06	Mar. 15	7.60	Aug. 3	5.13
Nov. 24	5.23				

158-82-34ccd. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 165 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Aug. 20, 1965	33.52	Dec. 30, 1965	33.0	May 12, 1966	32.15
Sept. 15	37.16	Feb. 1, 1966	Frozen	June 6	32.98
Oct. 27	30.02	Mar. 15	Frozen	Aug. 3	33.65
Nov. 24	32.03				

158-86-1aaa. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 60 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 6, 1966	13.25	Aug. 3, 1966	13.31	Sept. 15, 1966	13.30

158-86-30add. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 25 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 6, 1966	8.05	Sept. 15, 1966	7.98	Oct. 5, 1966	8.00
Aug. 3	7.97				

159-84-6bbb. Test hole. Water-table observation well in glacial drift; diam 1½ in, depth 20 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Dec. 11, 1964	14.17	Aug. 20, 1965	14.01	Feb. 1, 1966	12.29
Mar. 17, 1965	14.26	Sept. 15	13.16	Mar. 15	12.30
Apr. 13	14.22	Oct. 27	12.67	May 5	12.49
May 12	14.26	Nov. 23	13.29	June 6	12.33
June 16	14.16	Dec. 30	13.82	Aug. 3	13.15

160-87-17ddd. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 220 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Oct. 28, 1965	33.03	Feb. 1, 1966	32.93	June 6, 1966	32.71
Nov. 23	33.00	Mar. 15	32.75	Aug. 3	32.78
Dec. 30	33.07	May 5	32.68		

160-33-19add. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 330 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 6, 1966	20.93	Sept. 15, 1966	21.03	Oct. 5, 1966	20.98
Aug. 3	20.91				

160-33-20caa. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 340 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 6, 1966	47.52	Sept. 15, 1966	47.61	Oct. 5, 1966	47.57
Aug. 3	47.53				

160-33-20dcc. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 310 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 6, 1966	19.98	Sept. 15, 1966	19.30	Oct. 5, 1966	21.65
Aug. 3	19.39				

161-35-14add. Test hole. Water-table observation well in glacial drift; diam 1½ in, depth 40 ft, plastic casing. MP - top of plastic casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Dec. 11, 1964	10.52	Apr. 13, 1965	Frozen	Aug. 13, 1965	8.02
Jan. 20, 1965	10.99	May 12	5.64	Oct. 27	8.62
Feb. 13	11.51	June 16	3.39		Well destroyed
Mar. 17	Frozen				

161-36-33abb. Test hole. Water-table observation well in glacial drift; diam 1½ in, depth 20 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Dec. 11, 1964	9.13	Sept. 15, 1965	4.63	Mar. 15, 1966	7.62
Apr. 13, 1965	3.63	Sept. 27	1.59	May 12	3.11
May 13	1.60	Nov. 23	1.78	June 6	2.01
June 16	1.07	Dec. 30	1.91	Aug. 3	3.39
Aug. 13	4.61	Feb. 1, 1966	6.78		

161-37-21bbb. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 34 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Dec. 11, 1964	7.33	Aug. 18, 1965	5.52	Feb. 1, 1966	7.43
Jan. 20, 1965	8.36	Sept. 15	5.56	Mar. 15	8.50
Feb. 13	9.22	Oct. 27	5.50	May 12	3.60
Mar. 17	9.46	Nov. 23	5.52	June 6	4.98
Apr. 13	9.52	Dec. 30	5.53	Aug. 3	6.23
May 13	Plugged				

161-33-11bbb. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 150 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Oct. 23, 1955	26.53	Feb. 1, 1966	26.12	June 6, 1966	25.93
Nov. 25	26.77	Mar. 15	26.00	Aug. 3	26.03
Dec. 30	26.86	May 12	25.98		

162-34-3ddc. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 76 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Dec. 11, 1964	3.19	May 12, 1965	4.51	Nov. 23, 1965	2.93
Jan. 20, 1965	4.93	June 16	4.78	Dec. 30	3.13
Feb. 18	4.53	Aug. 20	3.79	Feb. 1, 1966	5.23
Mar. 17	4.53	Sept. 15	3.13	Mar. 5	5.20
Apr. 13	5.05	Oct. 27	2.45	May 12	0.03

162-37-22aaa. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 340 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
June 6, 1965	36.87	Aug. 3, 1965	37.01	Oct. 5, 1965	36.12

162-37-32ddd1. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 51 ft, plastic casing. MP - top of plastic casing 1.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Dec. 11, 1964	3.13	Aug. 18, 1965	2.37	Feb. 1, 1966	5.17
Jan. 20, 1965	Frozen	Sept. 15	2.29	Mar. 15	5.11
Mar. 16	Frozen	Sept. 27	2.20	May 15	4.01
Apr. 13	Frozen	Nov. 23	2.30	June 6	4.23
May 13	1.45	Dec. 30	3.02	Aug. 3	4.84
June 16	1.42				

162-37-32ddd2. Test hole. Artesian observation well in glaciofluvial material; diam 1½ in, depth 73 ft, plastic casing. MP - top of plastic casing 1.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Dec. 11, 1964	4.26	Aug. 18, 1965	4.47	Feb. 1, 1966	5.24
Jan. 20, 1965	Frozen	Sept. 15	4.59	Mar. 15	5.13
Mar. 16	Frozen	Sept. 27	4.65	May 15	3.26
Apr. 13	Frozen	Nov. 23	4.72	June 6	3.41
May 13	2.61	Dec. 30	4.75	Aug. 3	4.06
June 16	2.54				

163-34-7ccc. Test hole. Artesian observation well in glaciofluvial material;  
 diam  $1\frac{1}{2}$  in, depth 20 ft, plastic casing. MP - top of metal casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Dec. 11, 1964	7.93	June 16, 1965	4.37	Feb. 1, 1966	6.36
Jan. 20, 1965	8.59	Aug. 20	5.69	Mar. 15	7.27
Feb. 13	9.17	Sept. 15	5.30	May 12	5.85
Mar. 17	9.59	Oct. 27	4.36	June 6	5.41
Apr. 13	9.65	Dec. 30	5.01	Aug. 3	5.98
May 12	8.49				

163-37-7aaa1. Test hole. Artesian observation well in glaciofluvial material;  
 diam  $1\frac{1}{2}$  in, depth 19 ft, plastic casing. MP - top of plastic casing 2.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Dec. 11, 1964	8.34	Aug. 18, 1965	6.65	Feb. 1, 1966	7.85
Jan. 20, 1965	8.99	Sept. 15	7.21	Mar. 15	6.79
Mar. 17	9.87	Sept. 27	7.57	May 12	7.01
Apr. 13	8.53	Nov. 23	7.78	June 6	5.03
May 13	7.93	Dec. 30	7.02	Aug. 3	6.71
June 16	3.60				

163-37-7aaa2. Test hole. Artesian observation well in glaciofluvial material;  
 diam  $1\frac{1}{2}$  in, depth 40 ft, plastic casing. MP - top of plastic casing 1.00 ft above lsd.

<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>	<u>Date</u>	<u>Water level</u>
Dec. 11, 1964	9.10	Aug. 18, 1965	7.40	Feb. 1, 1966	8.84
Jan. 20, 1965	9.75	Sept. 15	7.79	Mar. 15	7.71
Mar. 17	10.07	Sept. 27	8.17	May 12	6.03
Apr. 13	9.28	Nov. 23	8.25	June 6	6.61
May 13	8.68	Dec. 30	8.31	Aug. 3	7.13
June 16	4.39				

LOCATION: Ward County  
151-81-19ad  
ELEVATION: 2,156 feet  
above sea level

TEST HOLE  
U.S. Air Force

DATE DRILLED: 1961  
DEPTH: 100 feet

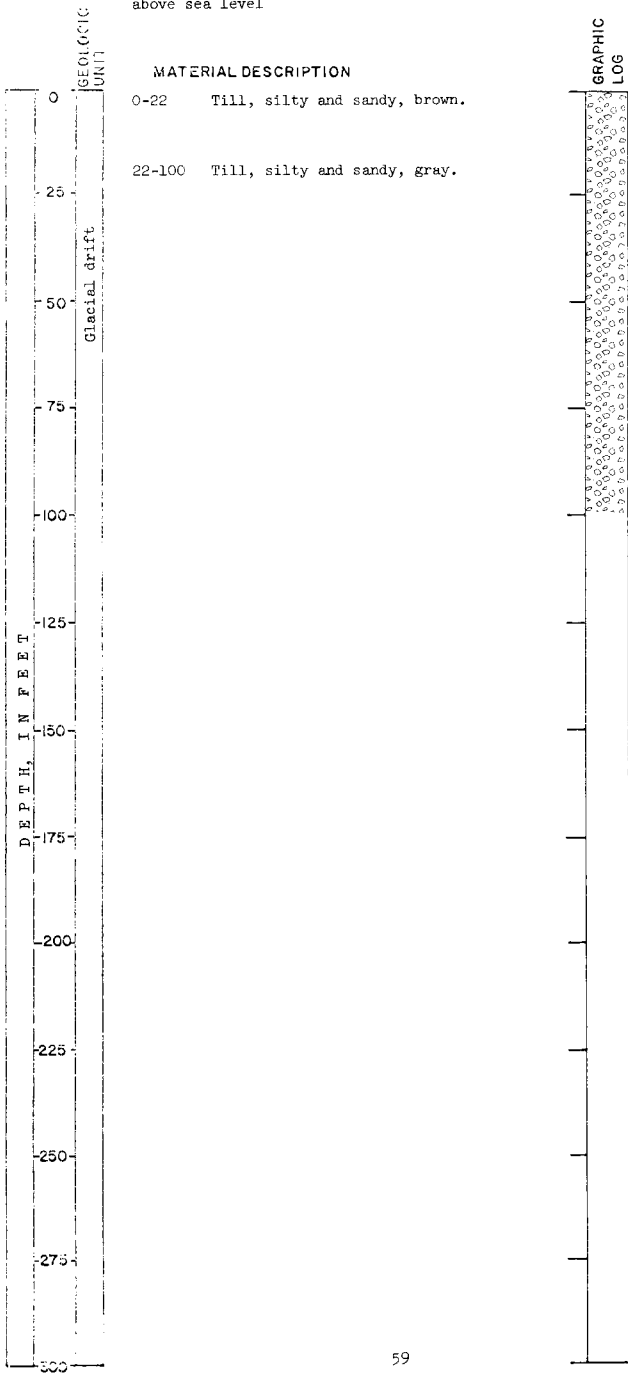


TABLE 4.--Logs of selected test holes and wells

Explanation of lithologic symbols

Sand



Till



Gravel



Boulders



Silt



Shale



Clay



Lignite



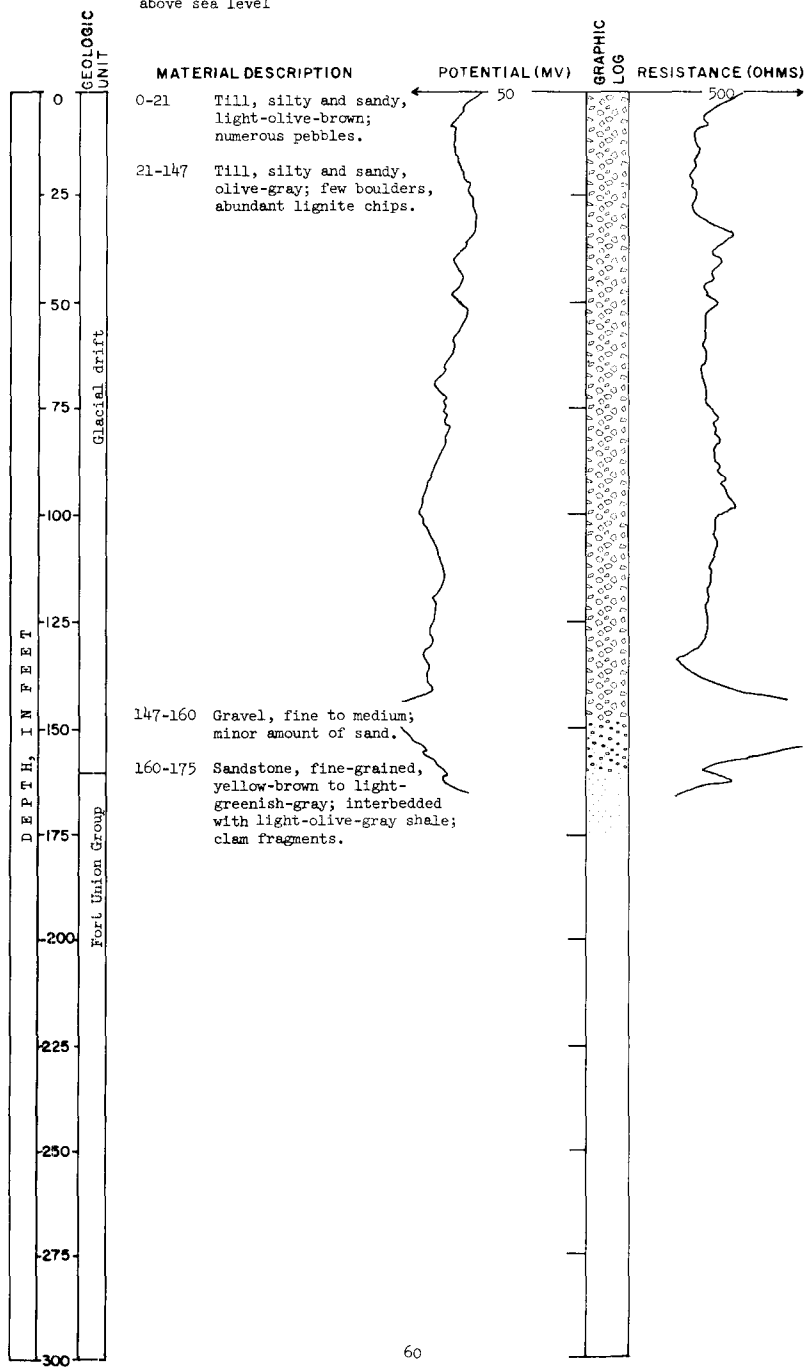
LOCATION: Ward County  
151-81-33ccc

ELEVATION: 2,133 feet  
above sea level

TEST HOLE 3190

DATE DRILLED: May 11, 1965

DEPTH: 175 feet



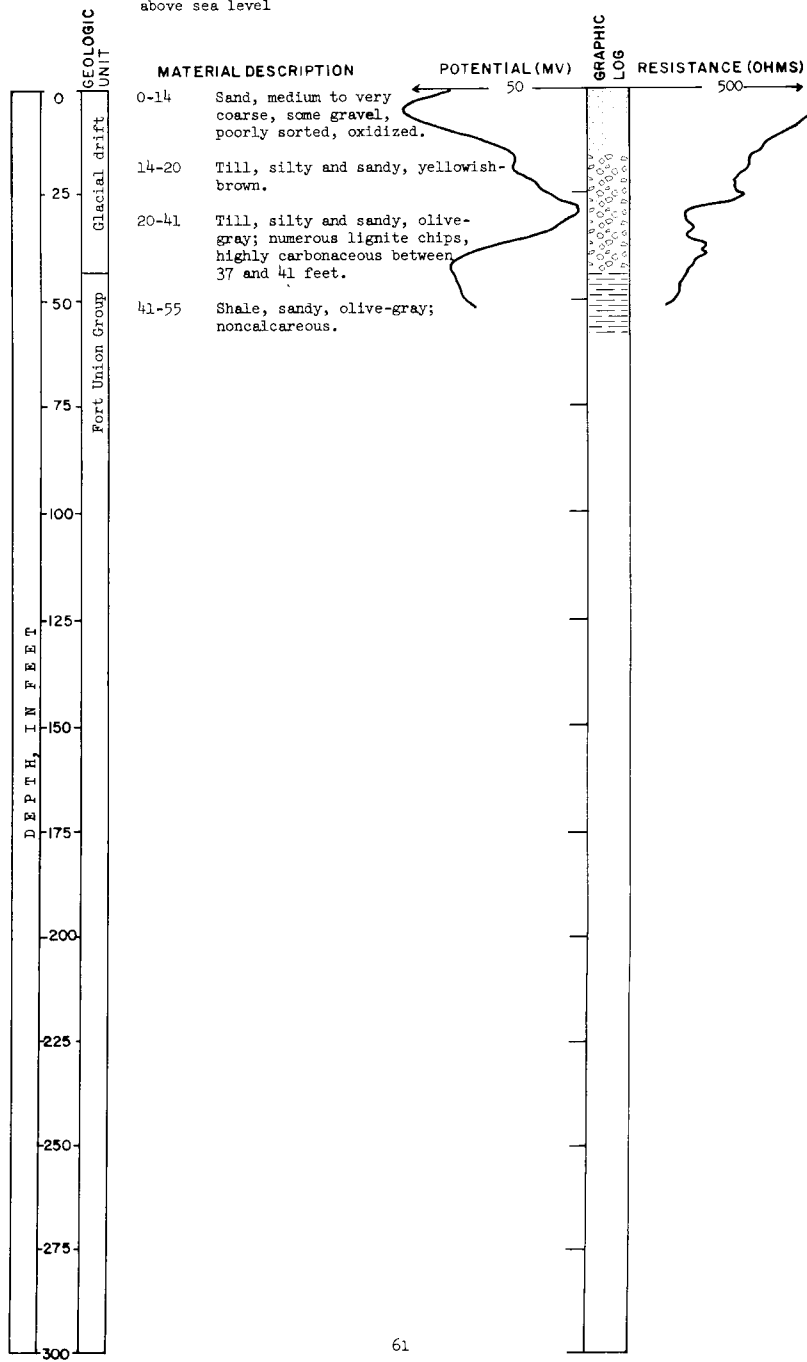
LOCATION: Ward County  
151-81-36cbb

ELEVATION: 2,100 feet  
above sea level

TEST HOLE 3189

DATE DRILLED: May 11, 1965

DEPTH: 55 feet





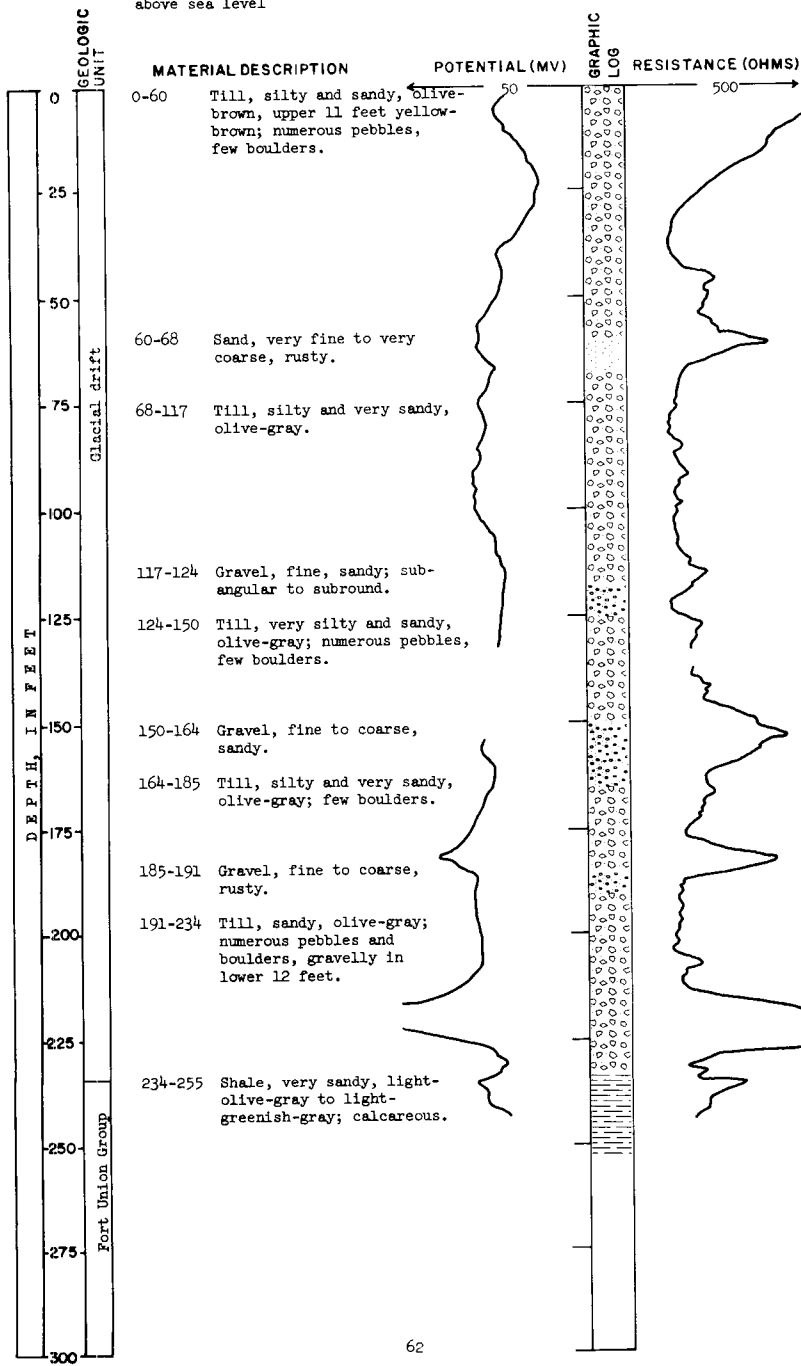
LOCATION: Ward County  
151-82-15ddd

ELEVATION: 2,097 feet  
above sea level

TEST HOLE 3191

DATE DRILLED: May 11, 1965

DEPTH: 255 feet



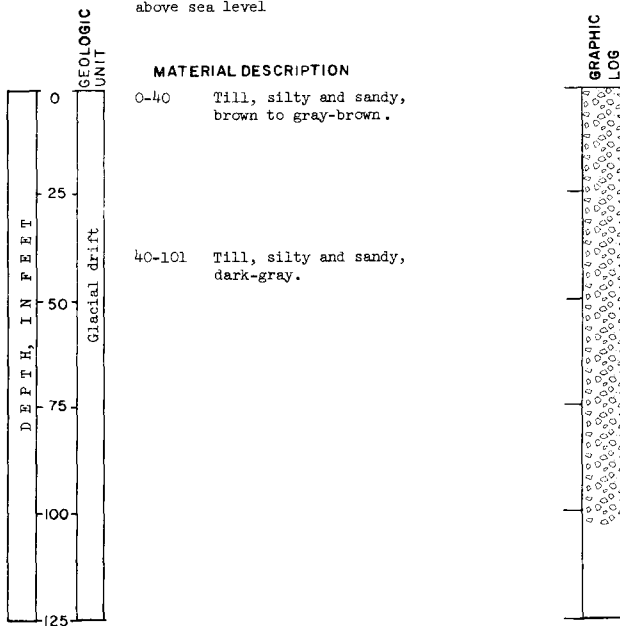
LOCATION: Ward County  
151-82-30aa

TEST HOLE  
U.S. Air Force

ELEVATION: 2,165 feet  
above sea level

DATE DRILLED: 1961

DEPTH: 101 feet



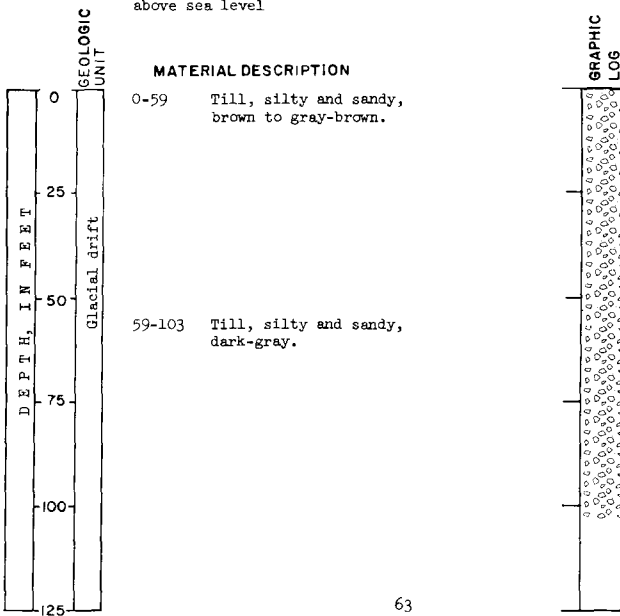
LOCATION: Ward County  
151-83-9ad

TEST HOLE  
U.S. Air Force

ELEVATION: 2,232 feet  
above sea level

DATE DRILLED: 1961

DEPTH: 103 feet



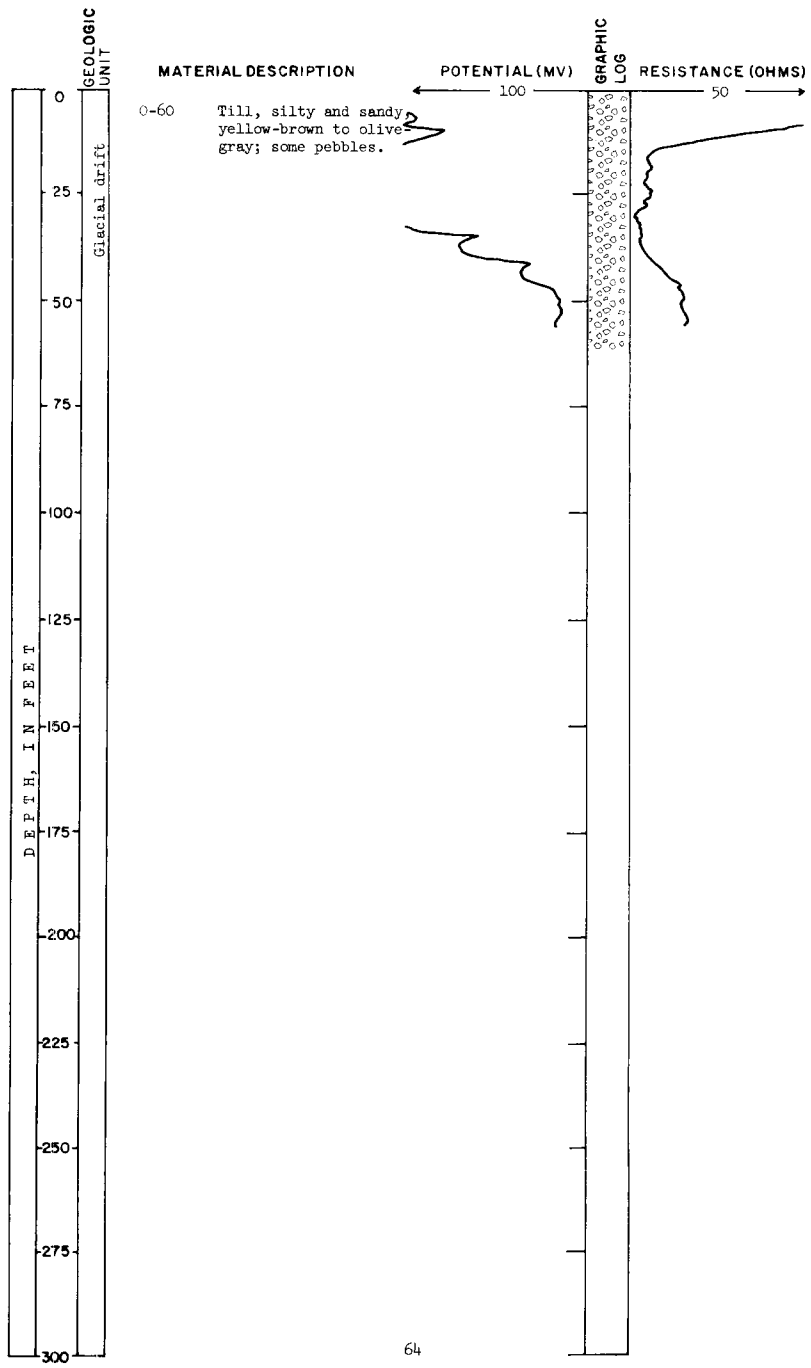
LOCATION: Ward County  
151-83-10aaa

TEST HOLE 3324

DATE DRILLED: May 27, 1966

ELEVATION:

DEPTH: 60 feet

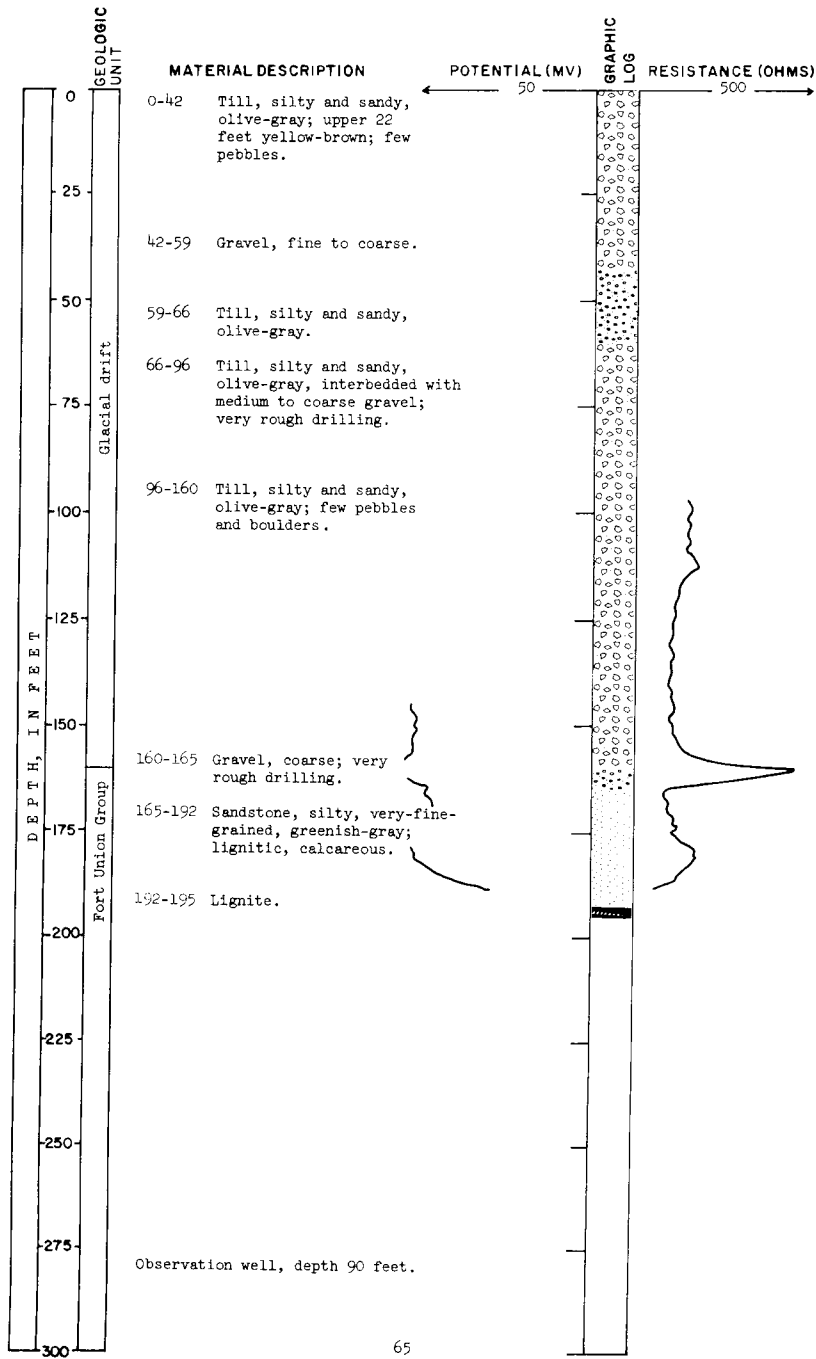


LOCATION: Ward County  
151-83-26bab

TEST HOLE 3192

DATE DRILLED: May 12, 1965

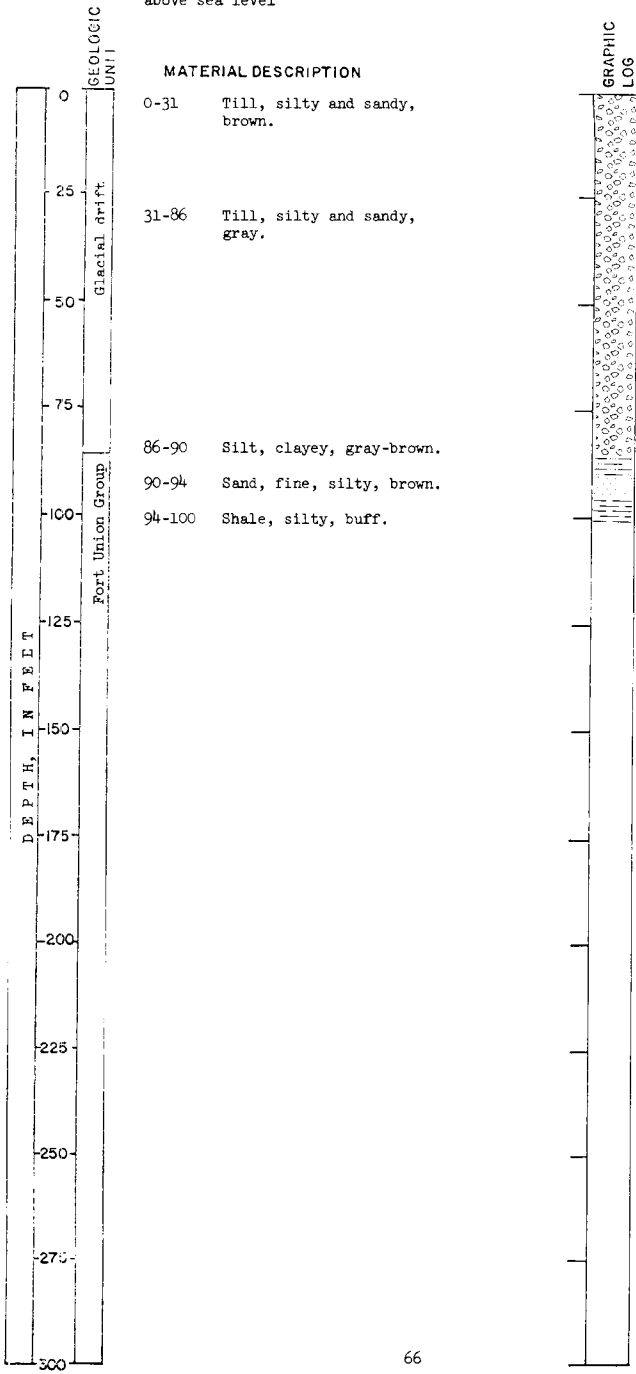
DEPTH: 195 feet



LOCATION: Ward County  
 151-83-30cd  
 ELEVATION: 2,141 feet  
 above sea level

TEST HOLE  
 U.S. Air Force

DATE DRILLED: 1961  
 DEPTH: 100 feet



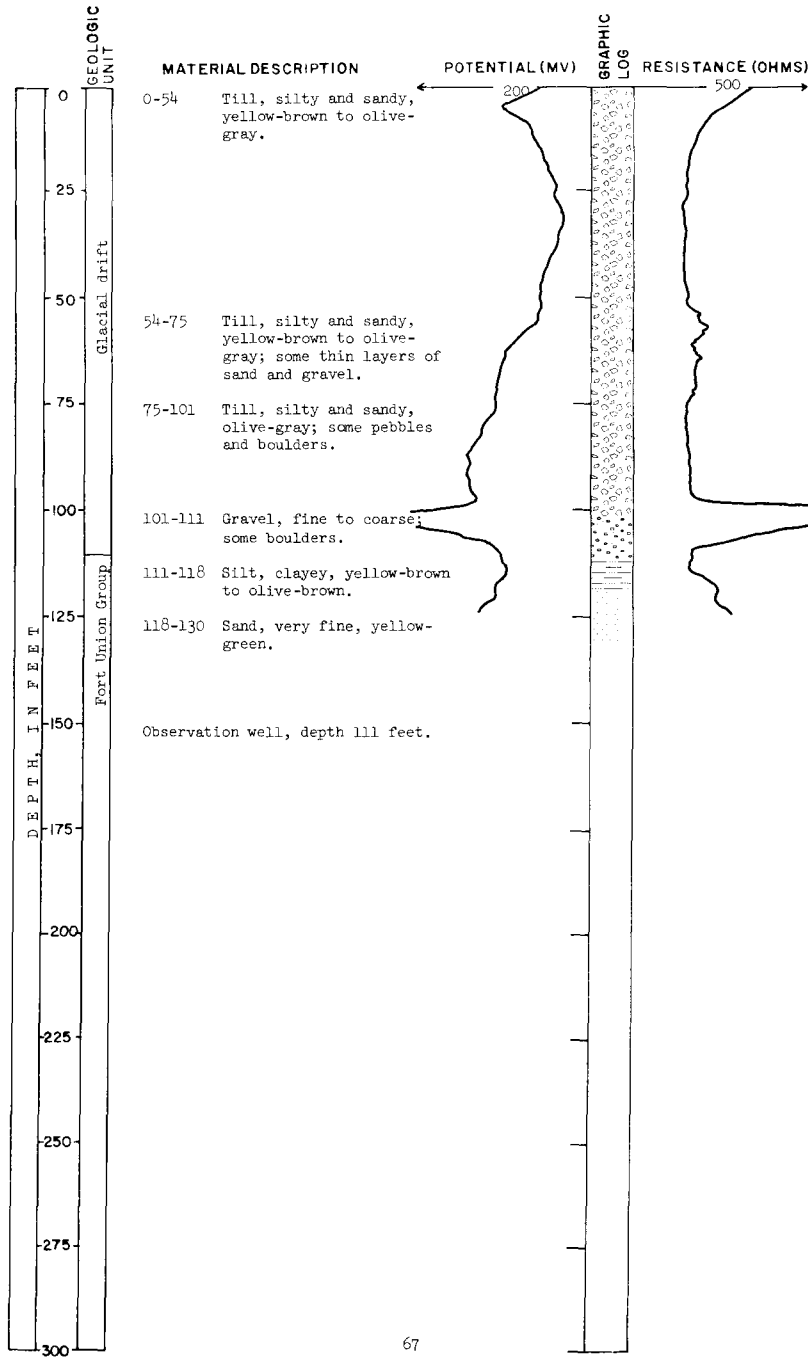
LOCATION: Ward County  
151-83-35cdc

TEST HOLE 3323

DATE DRILLED: May 26, 1966

ELEVATION:

DEPTH: 130 feet



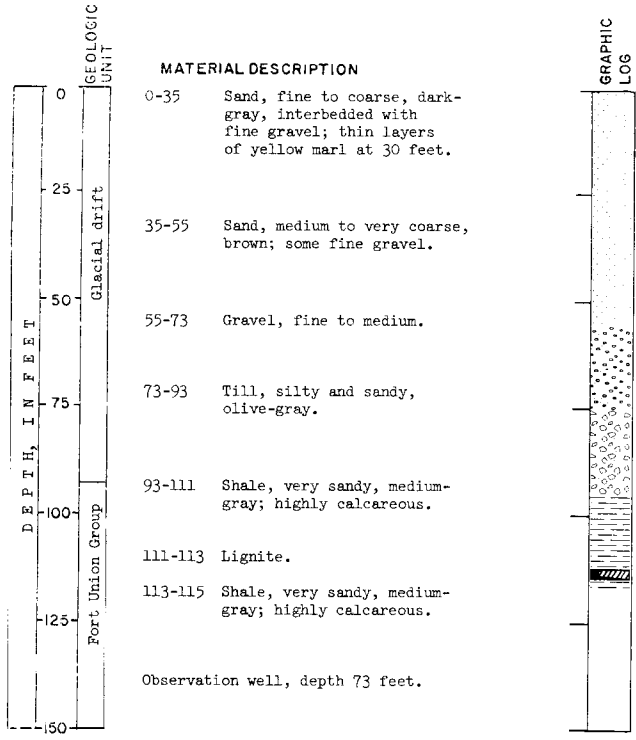
LOCATION: Ward County  
151-84-6ddc

ELEVATION:

TEST HOLE 3202

DATE DRILLED: May 19, 1965

DEPTH: 115 feet



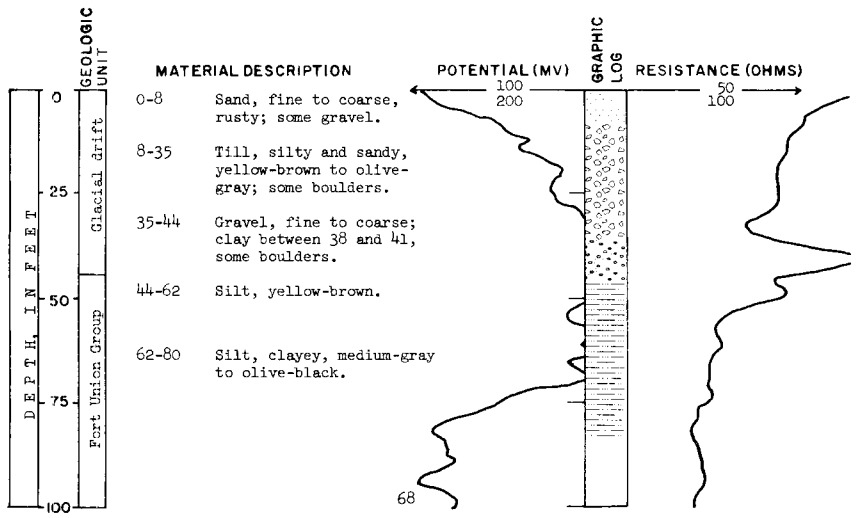
LOCATION: Ward County  
151-84-22bbb

ELEVATION:

TEST HOLE 3322

DATE DRILLED: May 26, 1966

DEPTH: 80 feet



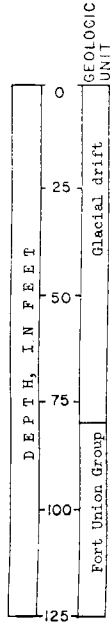
LOCATION: Ward County  
151-84-29cdd

ELEVATION:

TEST HOLE 3194

DATE DRILLED: May 13, 1965

DEPTH: 95 feet



**MATERIAL DESCRIPTION**

0-10 Sand, fine to coarse, rusty; some gravel.

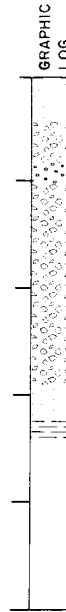
10-21 Till, silty, olive-gray.

21-25 Gravel, fine to medium.

25-73 Till, silty and sandy, olive-gray; few pebbles.

73-80 Sand, very fine to medium, gray.

80-95 Shale, dark gray.



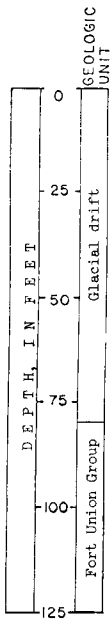
LOCATION: Ward County  
151-84-29ddd

ELEVATION:

TEST HOLE 3193

DATE DRILLED: May 13, 1965

DEPTH: 115 feet



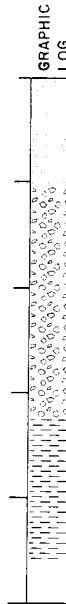
**MATERIAL DESCRIPTION**

0-25 Sand, medium to coarse, rusty; some gravel.

25-80 Till, silty and sandy, olive-gray; upper 15 feet yellow-brown.

80-115 Clay, light-greenish-gray; upper 10 feet yellow-brown.

Observation well, depth 30 feet.



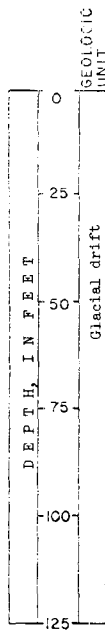


LOCATION: Ward County  
151-84-32bb

ELEVATION: 2,096 feet  
above sea level

TEST HOLE  
U.S. Air Force

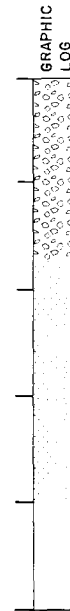
DATE DRILLED: 1961  
DEPTH: 100 feet



MATERIAL DESCRIPTION

0-43 Till, silty and sandy,  
gray-brown.

43-100 Sand, fine to medium.

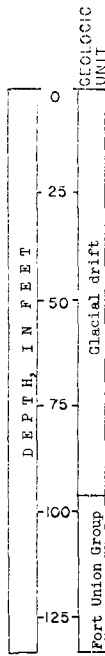


LOCATION: Ward County  
151-84-34ba

ELEVATION: 2,167 feet  
above sea level

TEST HOLE  
U.S. Air Force

DATE DRILLED: 1961  
DEPTH: 100 feet



MATERIAL DESCRIPTION

0-14 Till, silty and sandy, brown.

14-18 Sand, silty, gravelly.

18-28 Till, sandy and gravelly,  
brown.

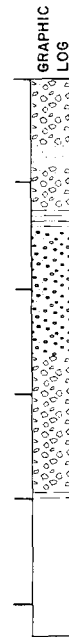
28-32 Silt, clayey, brown.

32-63 Sand and gravel.

63-87 Till, silty and sandy,  
dark-gray.

87-96 Till, silty and sandy,  
gray-brown.

96-100 Shale, yellow-brown.



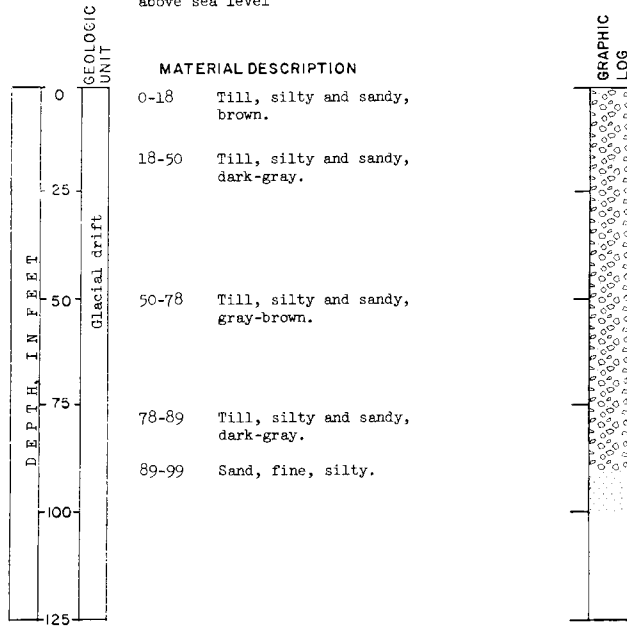
LOCATION: Ward County  
151-85-2cd

TEST HOLE  
U.S. Air Force

ELEVATION: 2,080 feet  
above sea level

DATE DRILLED: 1961

DEPTH: 99 feet



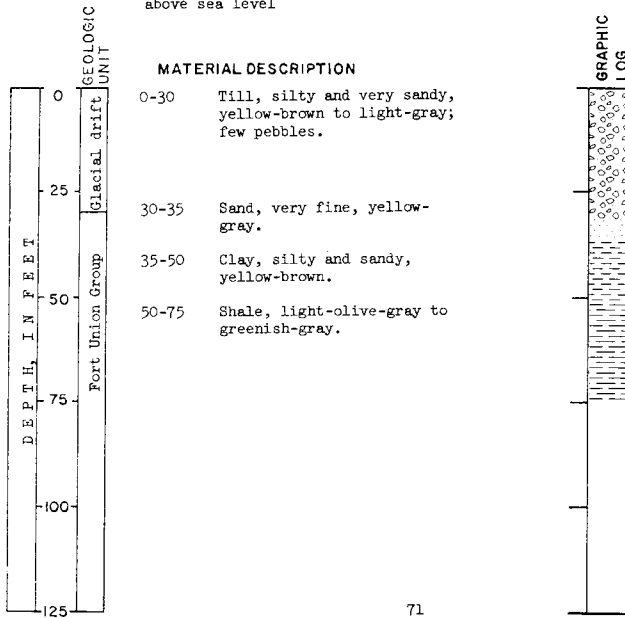
LOCATION: Ward County  
151-85-30ccd

TEST HOLE 3195

ELEVATION: 2,135 feet  
above sea level

DATE DRILLED: May 13, 1965

DEPTH: 75 feet

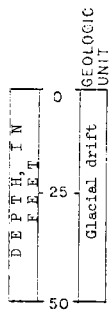


LOCATION: Ward County  
151-86-2ddd

TEST HOLE  
U.S. Geol. Survey

DATE DRILLED: October 16, 1965

DEPTH: 30 feet



MATERIAL DESCRIPTION

- 0-14 Sand, very fine to fine, yellow-brown.
  - 14-30 Till, very silty and sandy, yellow-brown; sandy layers between 21 and 27 feet.
- Observation well, depth 27 feet.

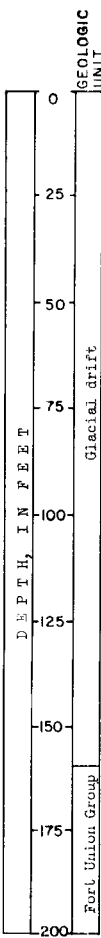


LOCATION: Ward County  
151-86-5cbb

TEST HOLE 3317

DATE DRILLED: May 24, 1966

DEPTH: 165 feet

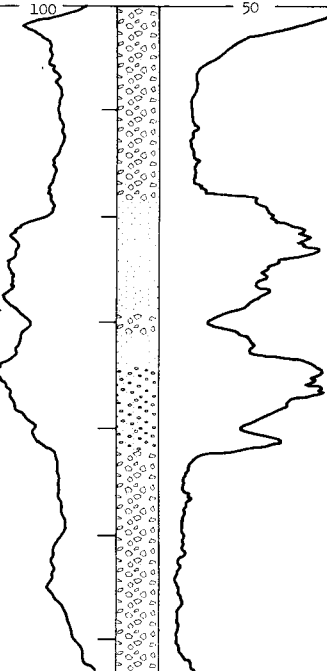


MATERIAL DESCRIPTION

- 0-46 Till, silty and sandy, yellow-brown to olive-gray; some pebbles.
  - 46-73 Sand, very fine to medium.
  - 73-78 Till, silty and sandy, olive-gray.
  - 78-85 Sand, very fine to fine.
  - 85-106 Gravel, fine, and coarse sand.
  - 106-159 Till, silty and very sandy, light-olive-gray; some pebbles and boulders.
  - 159-165 Sand, fine, light-greenish-gray, and black siltstone.
- Observation well, depth 90 feet.

POTENTIAL (MV)

RESISTANCE (OHMS)

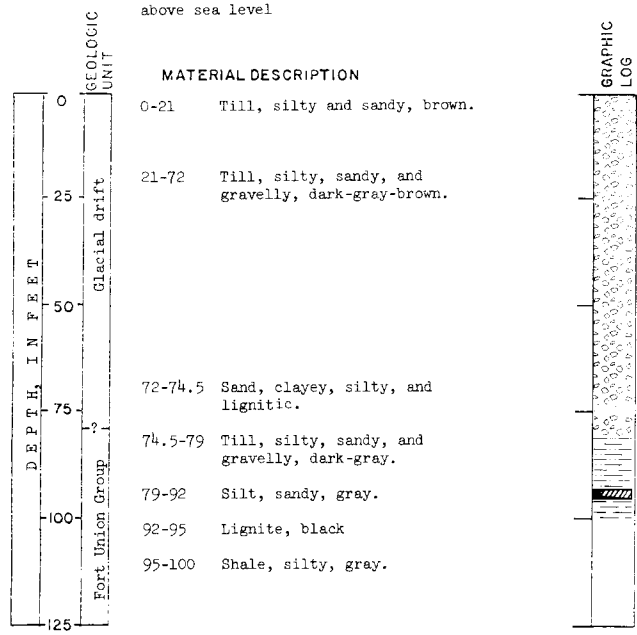


LOCATION: Ward County  
151-86-15cb

ELEVATION: 2,031 feet  
above sea level

TEST HOLE  
U.S. Air Force

DATE DRILLED: 1961  
DEPTH: 100 feet

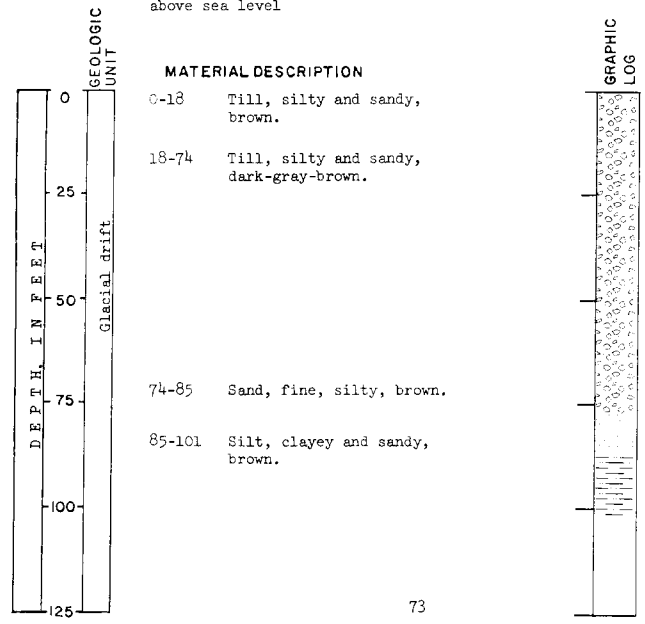


LOCATION: Ward County  
151-87-8bb

ELEVATION: 2,126 feet  
above sea level

TEST HOLE  
U.S. Air Force

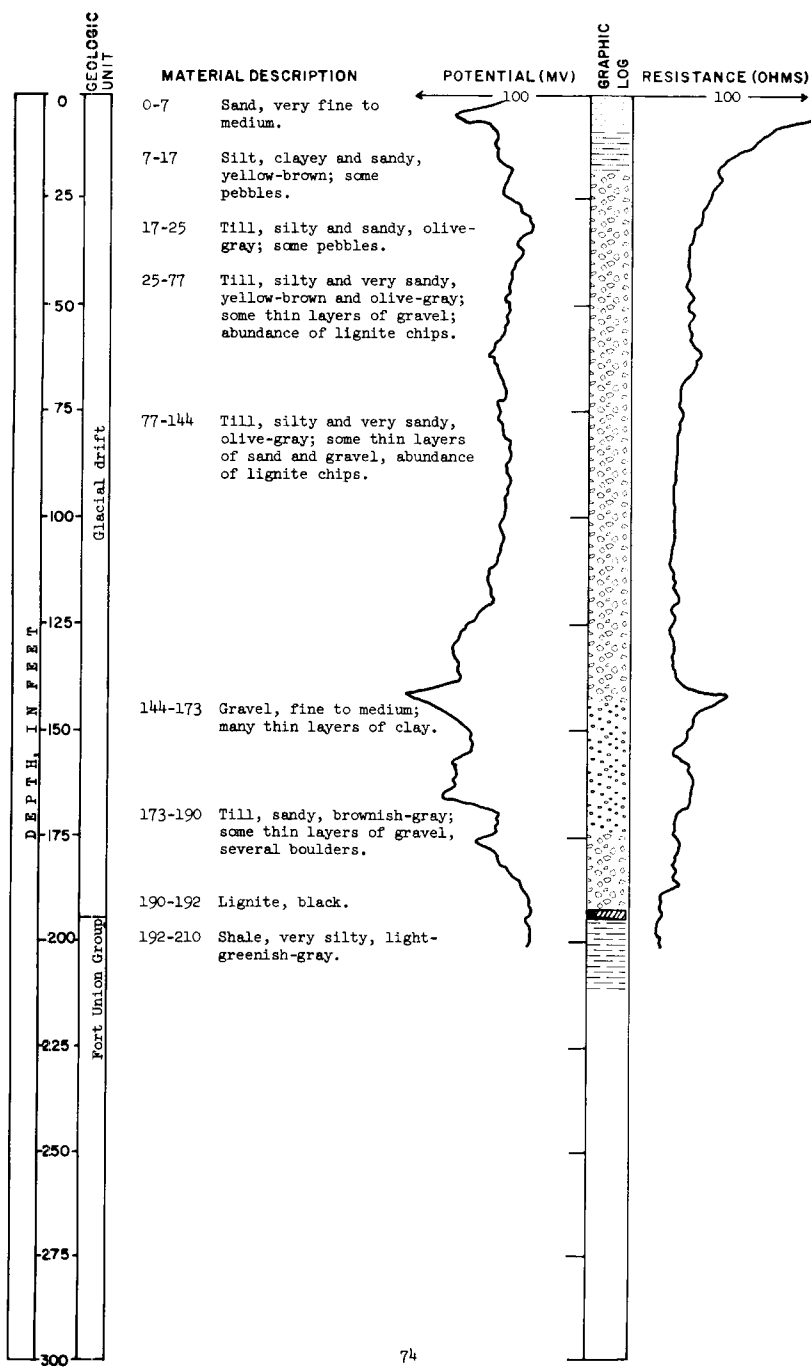
DATE DRILLED: 1961  
DEPTH: 101 feet



LOCATION: Ward County  
151-87-15baa

TEST HOLE 3314

DATE DRILLED: May 20, 1966  
DEPTH: 210 feet



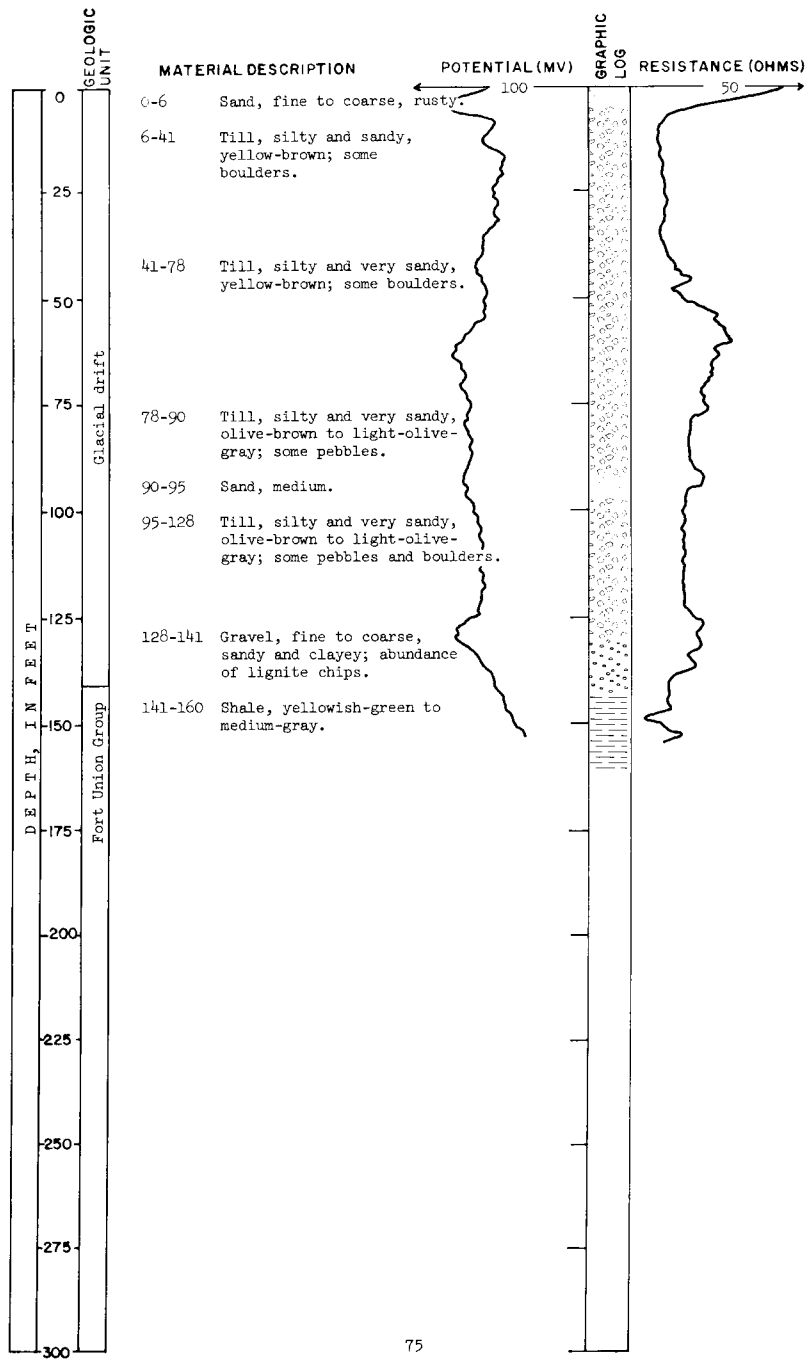
LOCATION: Ward County  
151-87-15cdd

TEST HOLE 3316

DATE DRILLED: May 23, 1966

ELEVATION:

DEPTH: 160 feet



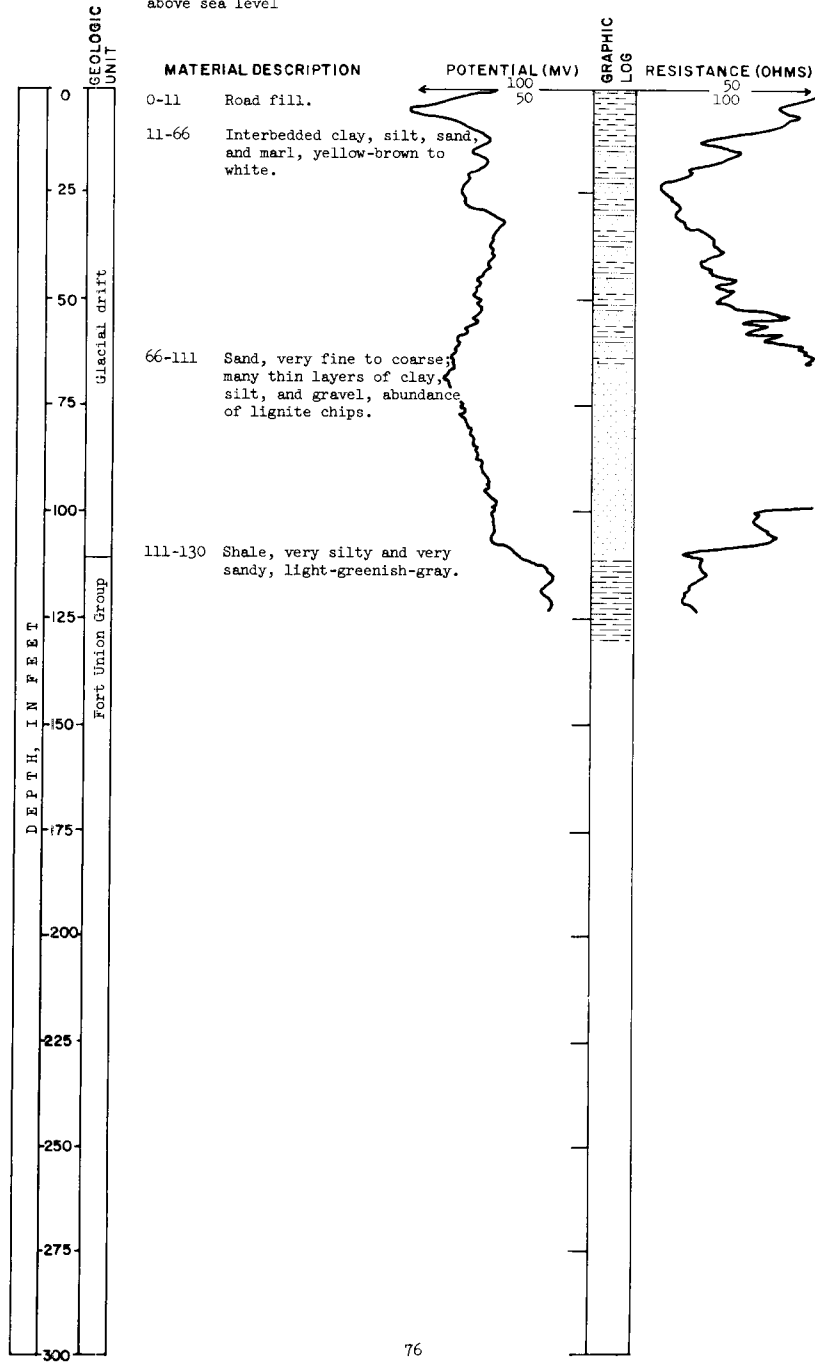
LOCATION: Ward County  
151-87-33aaa

ELEVATION: 2,130 feet  
above sea level

TEST HOLE 3315

DATE DRILLED: May 23, 1966

DEPTH: 130 feet

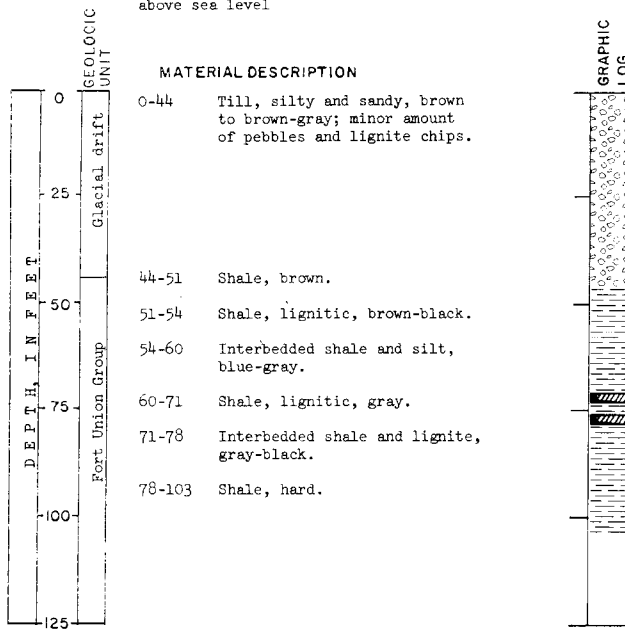


LOCATION: Ward County  
151-87-36bb

ELEVATION: 2,142 feet  
above sea level

TEST HOLE  
U.S. Air Force

DATE DRILLED: 1961  
DEPTH: 103 feet

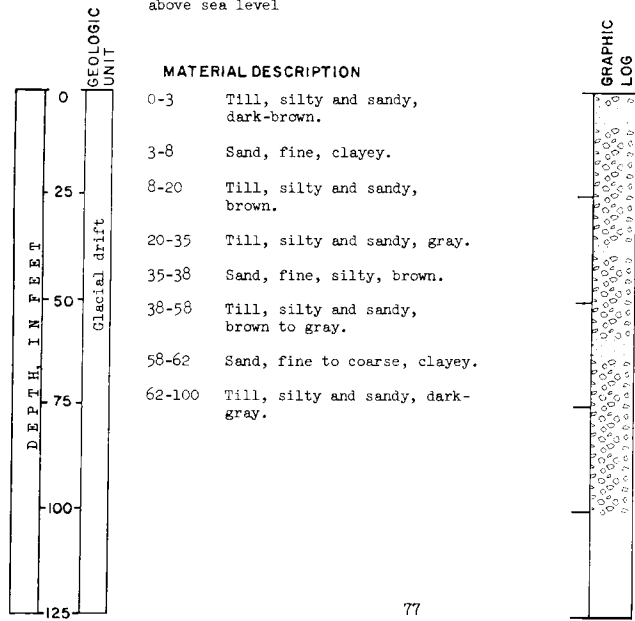


LOCATION: Ward County  
152-81-13dc

ELEVATION: 1,760 feet  
above sea level

TEST HOLE  
U.S. Air Force

DATE DRILLED: 1961  
DEPTH: 100 feet





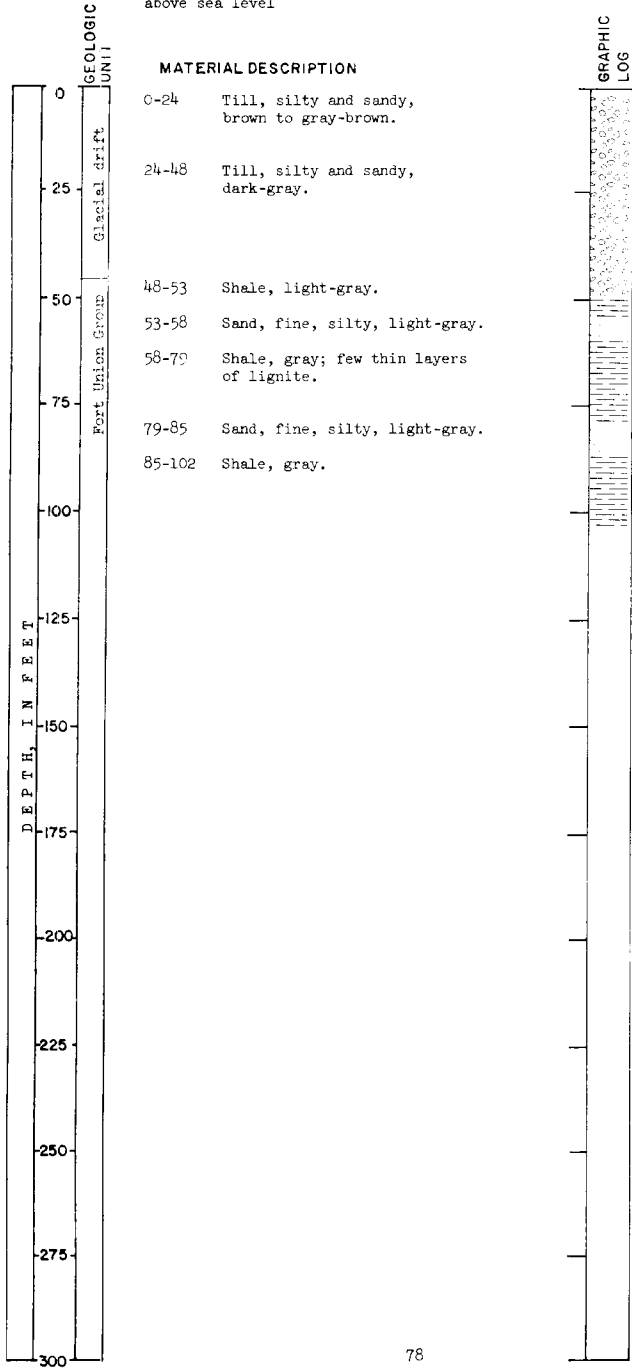
LOCATION: Ward County  
 152-81-29cd U.S. Air Force

ELEVATION: 1,964 feet  
 above sea level

TEST HOLE  
 U.S. Air Force

DATE DRILLED: 1961

DEPTH: 102 feet



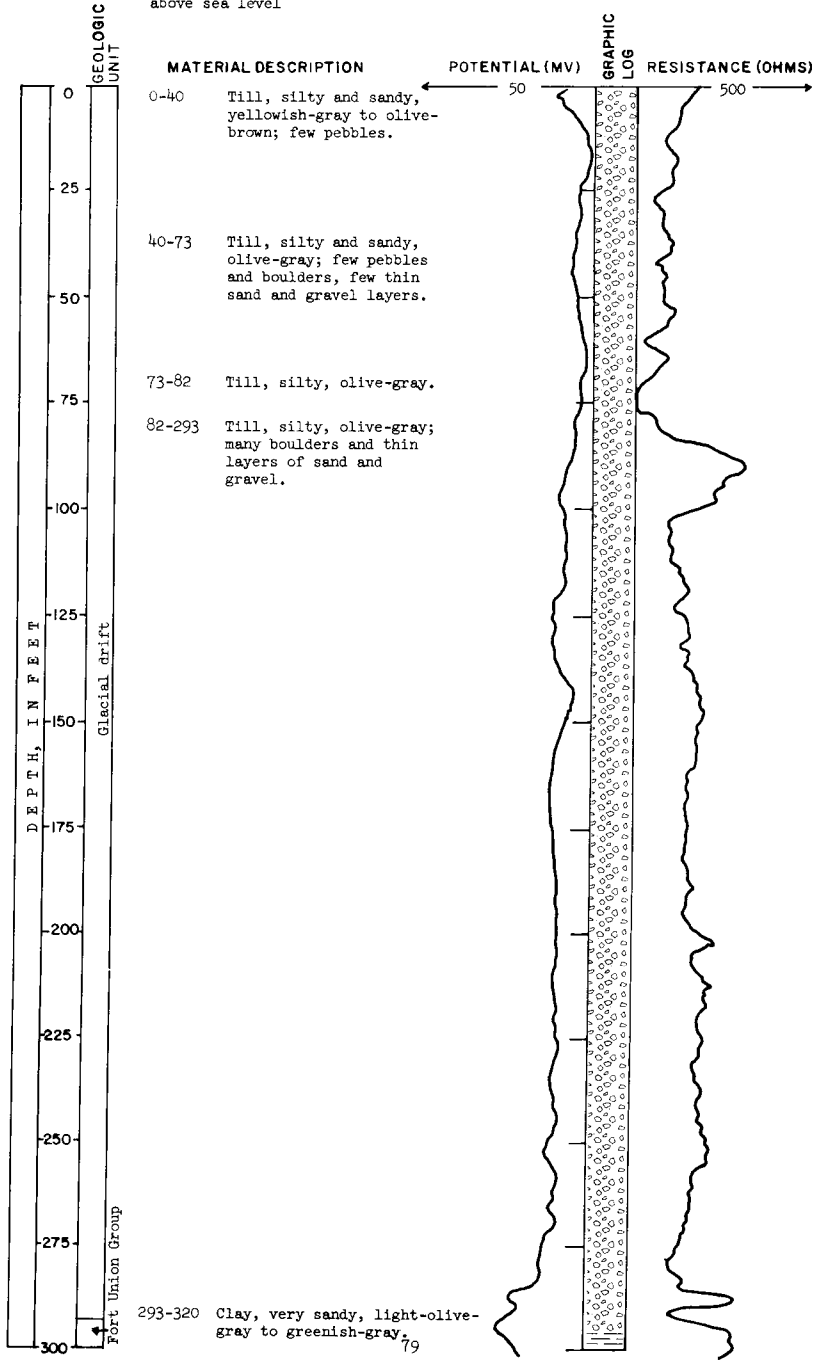
LOCATION: Ward County  
152-83-16ddd

ELEVATION: 2,154 feet  
above sea level

TEST HOLE 3216

DATE DRILLED: June 3, 1965

DEPTH: 320 feet



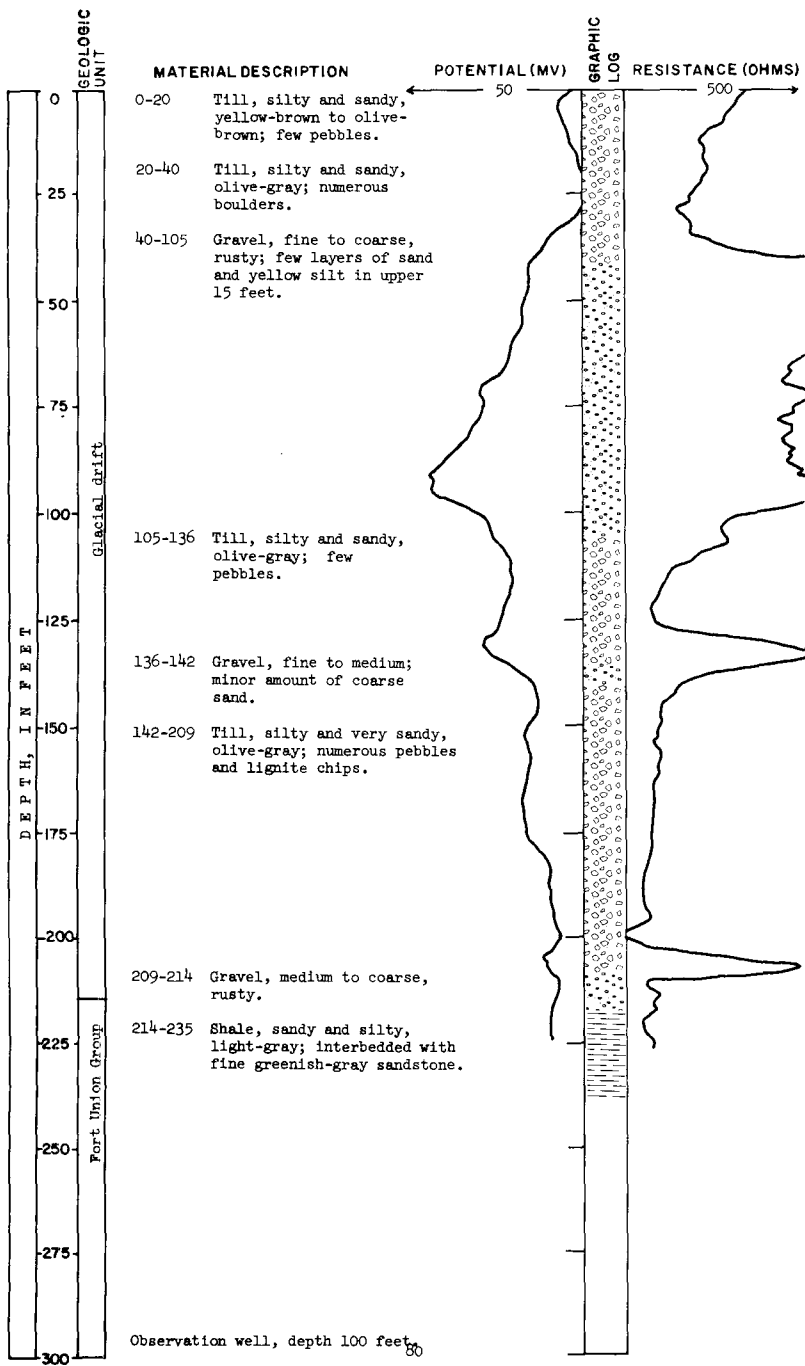
LOCATION: Ward County  
152-85-2bcb

TEST HOLE 3204

DATE DRILLED: May 20, 1965

ELEVATION:

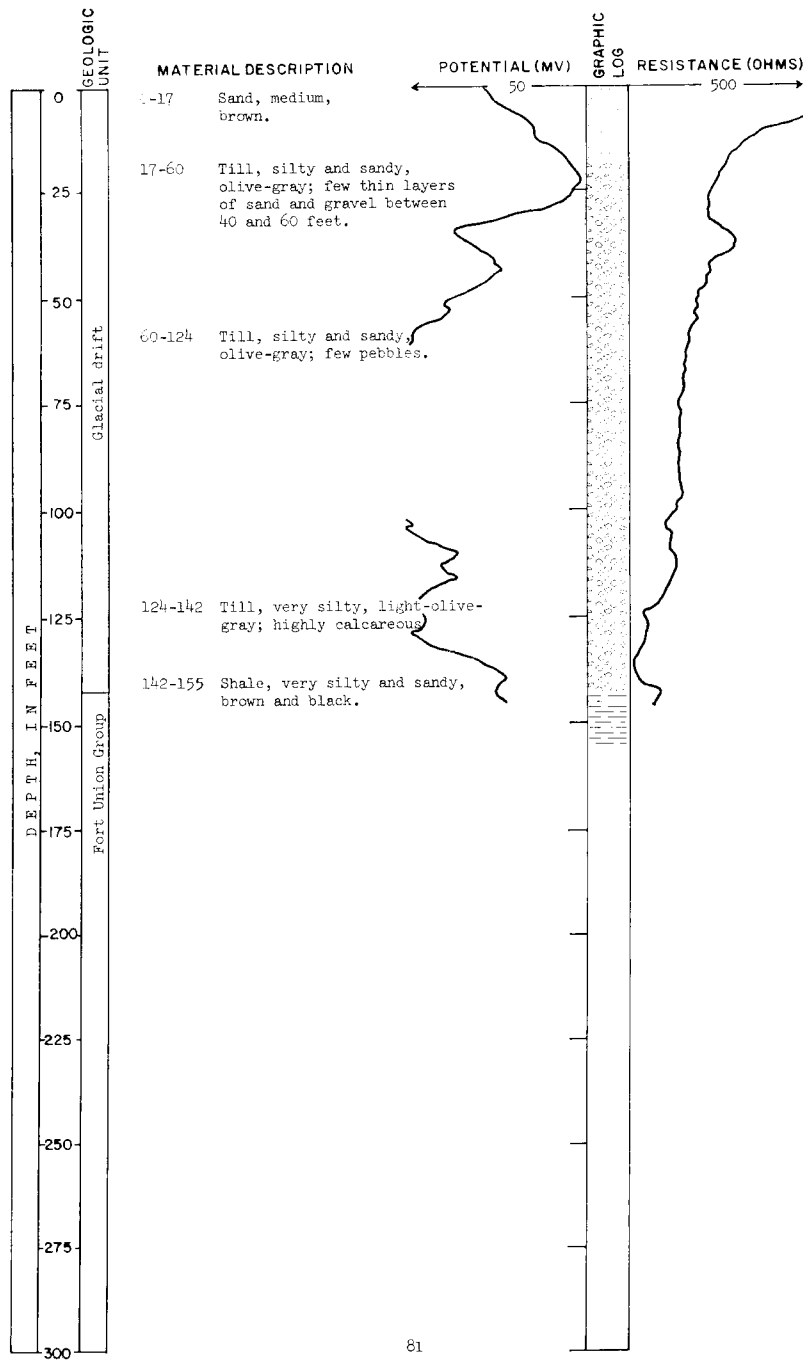
DEPTH: 235 feet



LOCATION: Ward County  
152-85-14bdc

TEST HOLE 3203

DATE DRILLED: May 20, 1965  
DEPTH: 155 feet



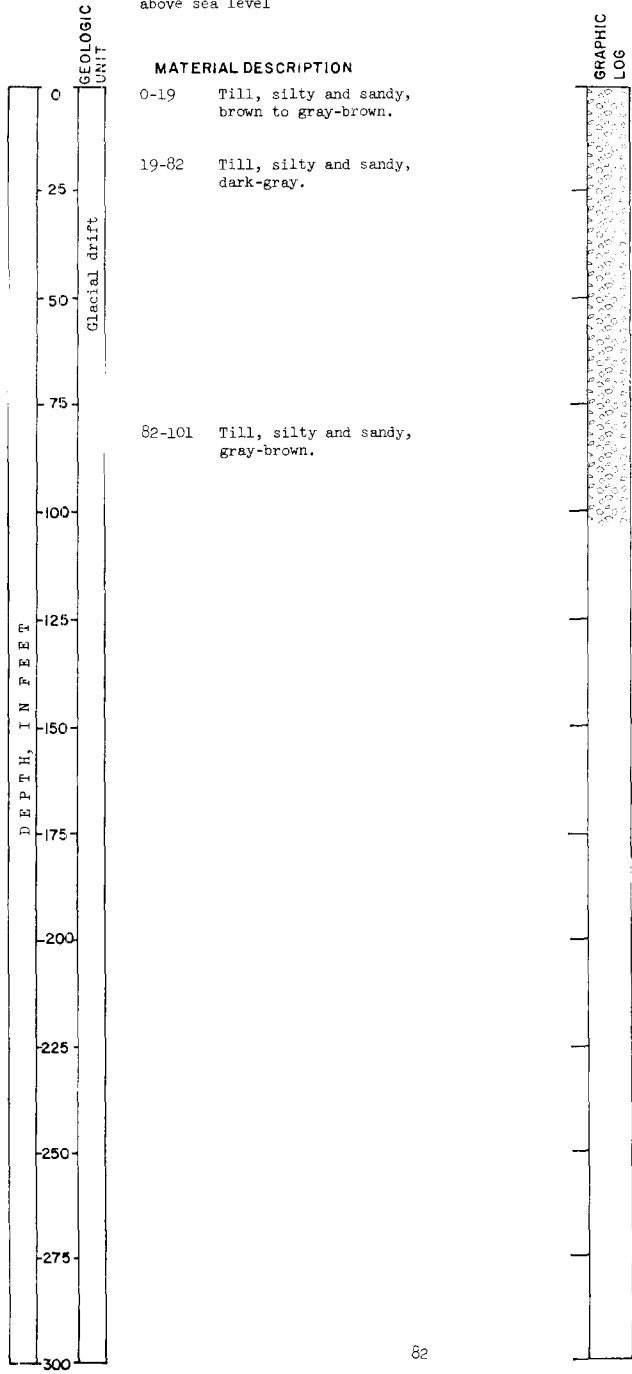
LOCATION: Ward County  
 152-85-17dd

TEST HOLE  
 U.S. Air Force

ELEVATION: 2,104 feet  
 above sea level

DATE DRILLED: 1961

DEPTH: 101 feet



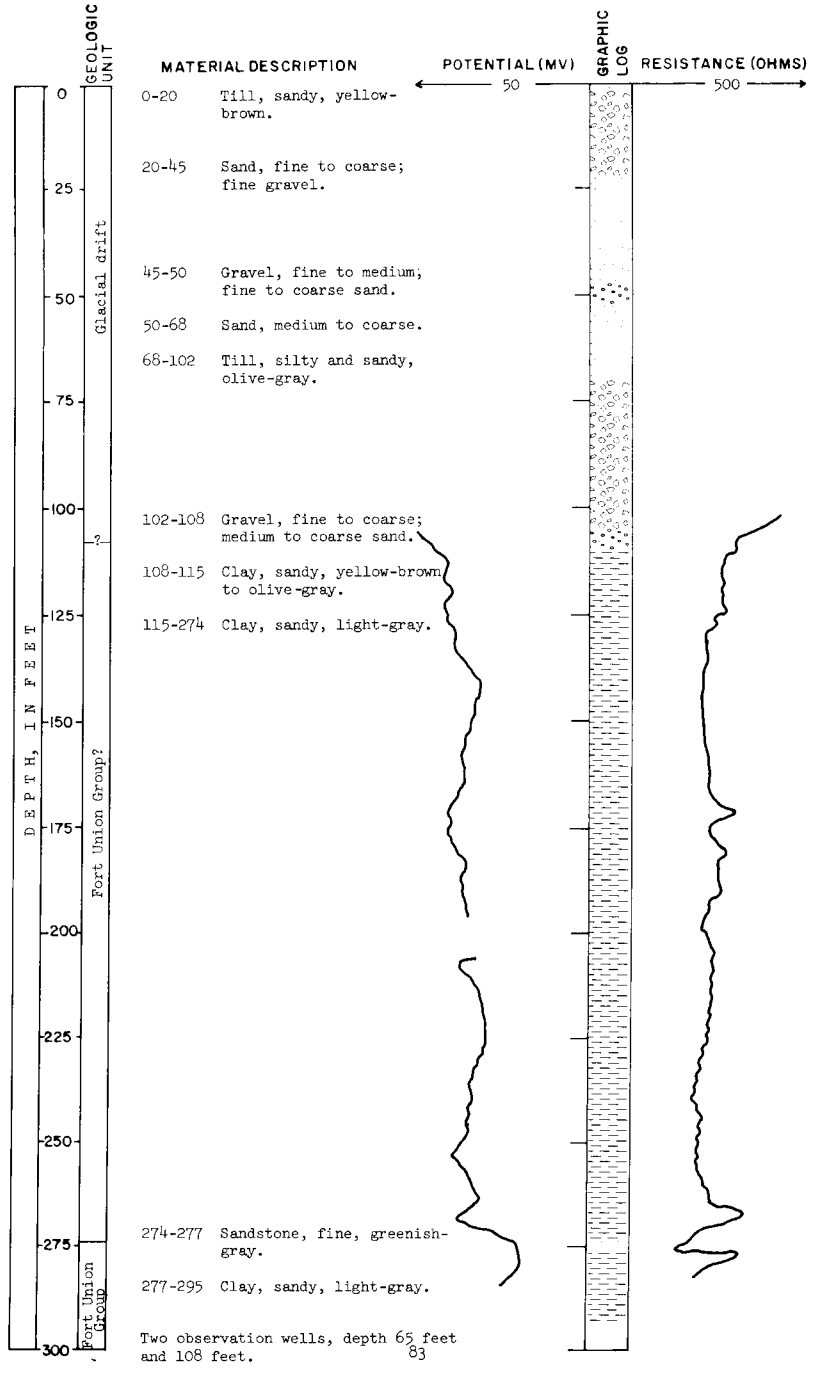
LOCATION: Ward County  
152-85-35ada

ELEVATION:

TEST HOLE 3201

DATE DRILLED: May 19, 1965

DEPTH: 295 feet

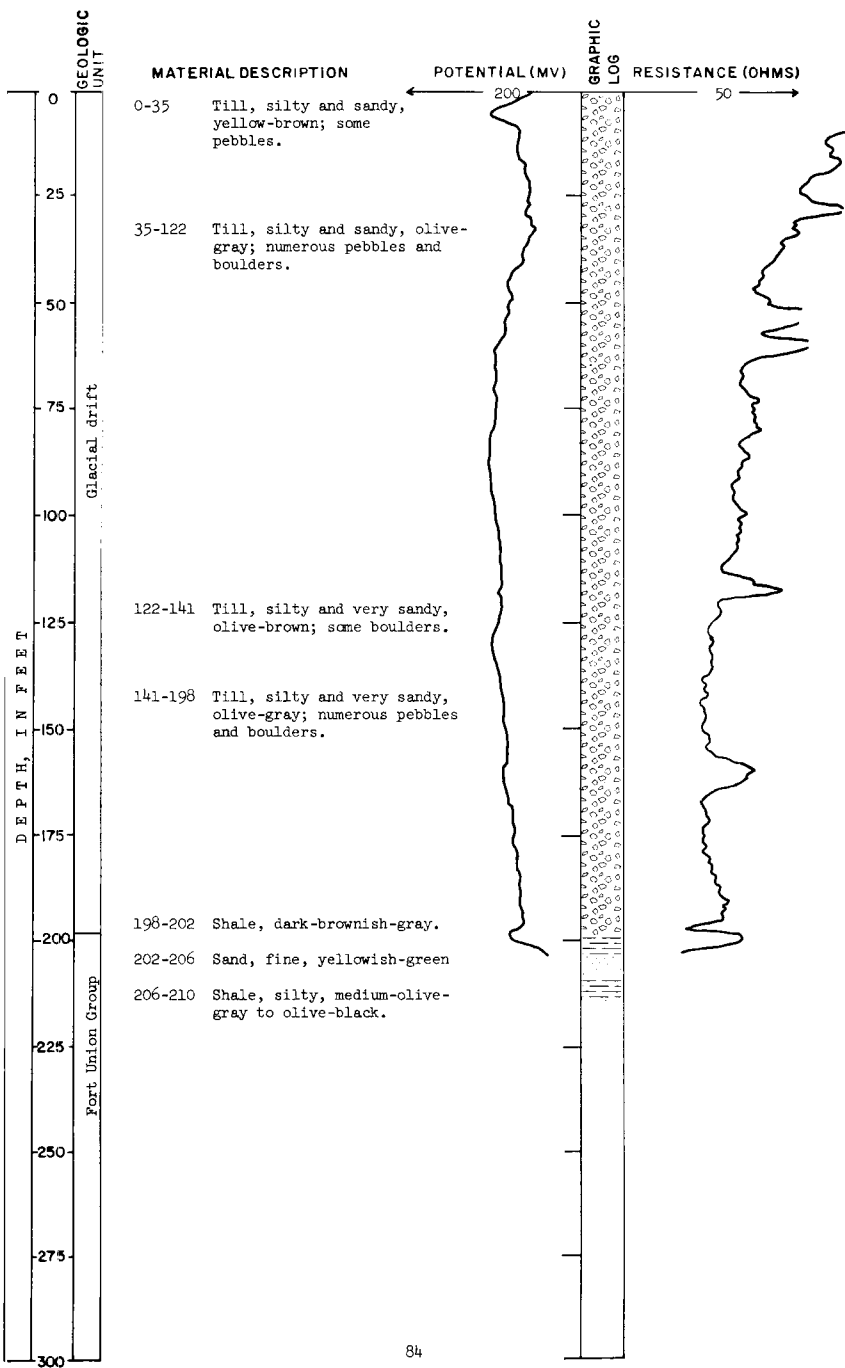


LOCATION: Ward County  
152-86-10bcb

TEST HOLE 3319

DATE DRILLED: May 24, 1966

DEPTH: 210 feet



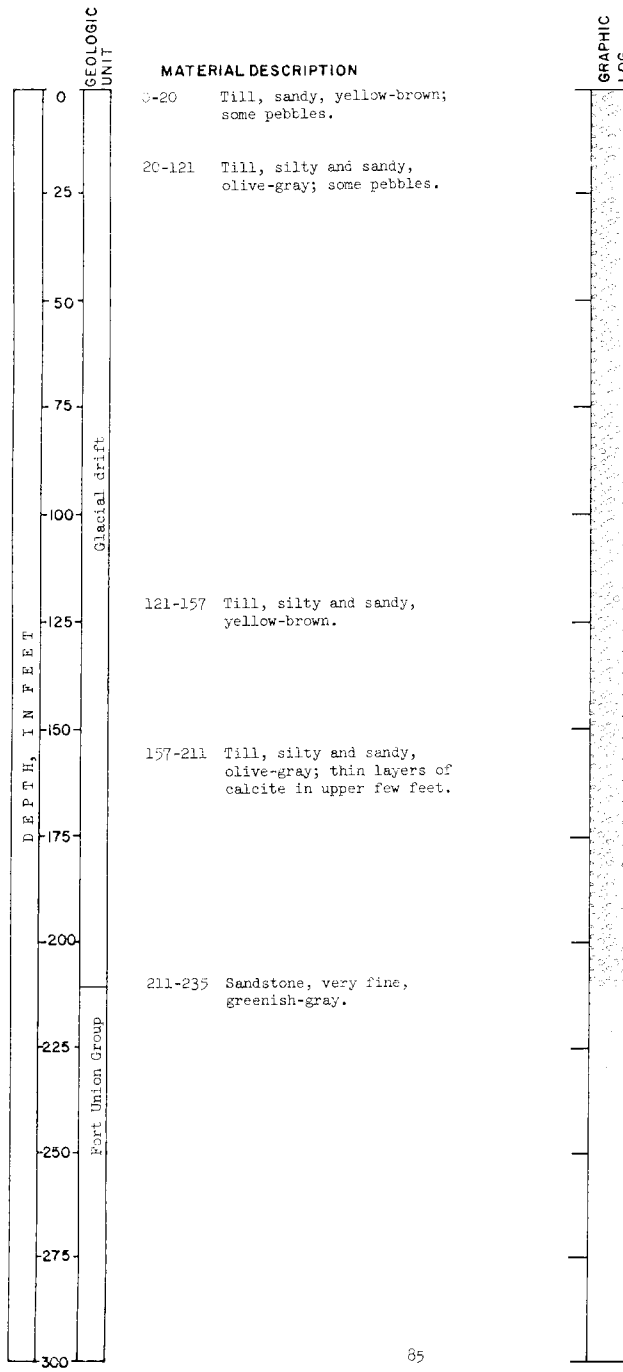
LOCATION: Ward County  
152-86-16add

ELEVATION:

TEST HOLE 3200

DATE DRILLED: May 18, 1965

DEPTH: 235 feet





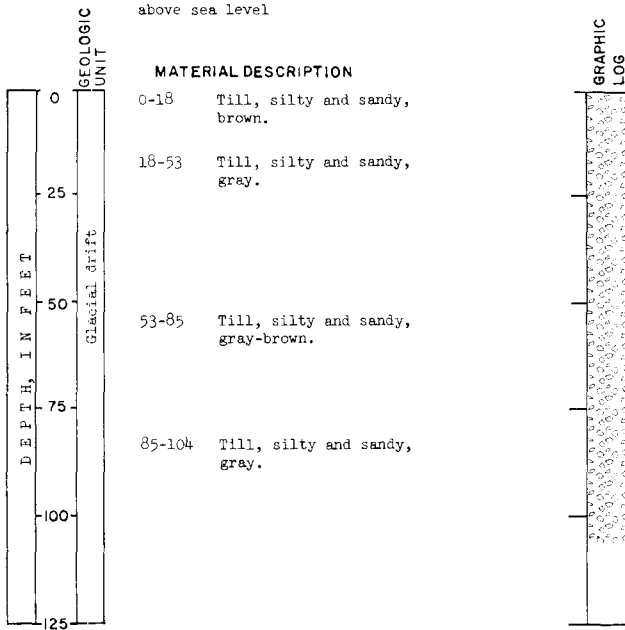
LOCATION: Ward County  
152-86-22cc

ELEVATION: 2,100 feet  
above sea level

TEST HOLE  
U.S. Air Force

DATE DRILLED: 1961

DEPTH: 104 feet



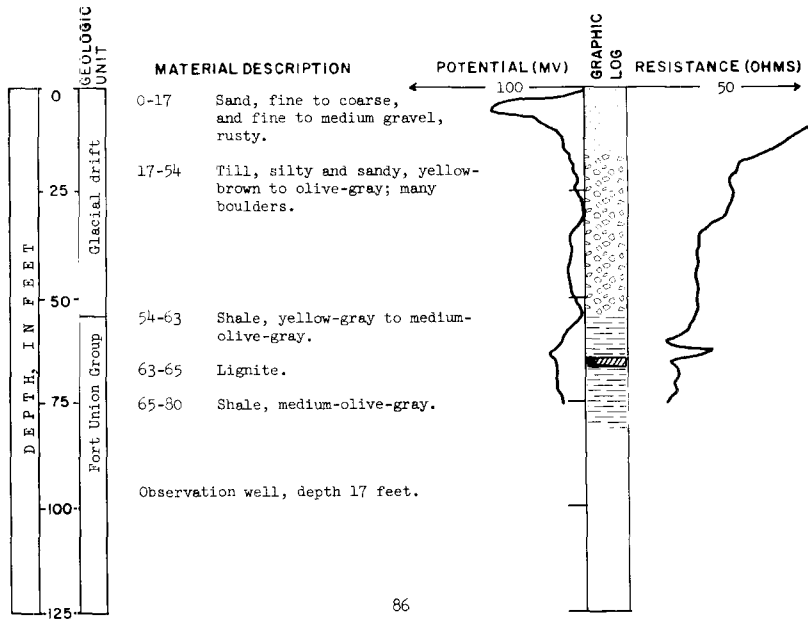
LOCATION: Ward County  
152-87-16aaa

ELEVATION:

TEST HOLE 3318

DATE DRILLED: May 24, 1966

DEPTH: 80 feet



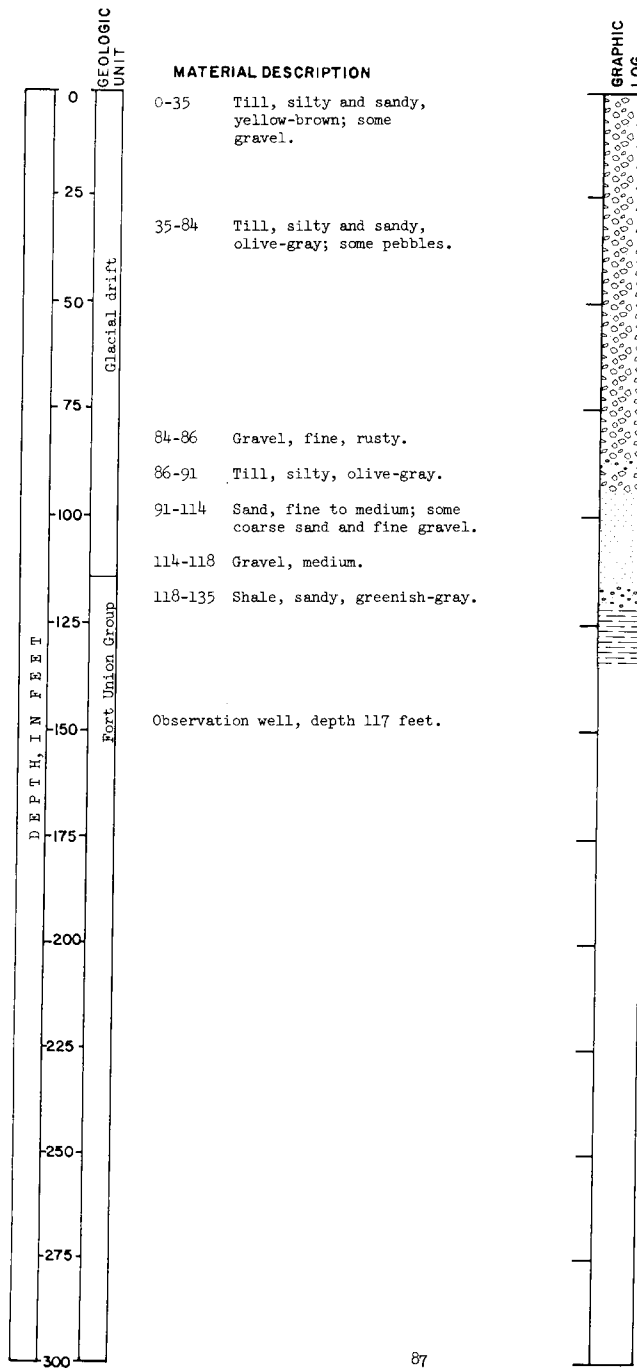
LOCATION: Ward County  
152-87-17ccc

TEST HOLE 3197

DATE DRILLED: May 13, 1965

ELEVATION:

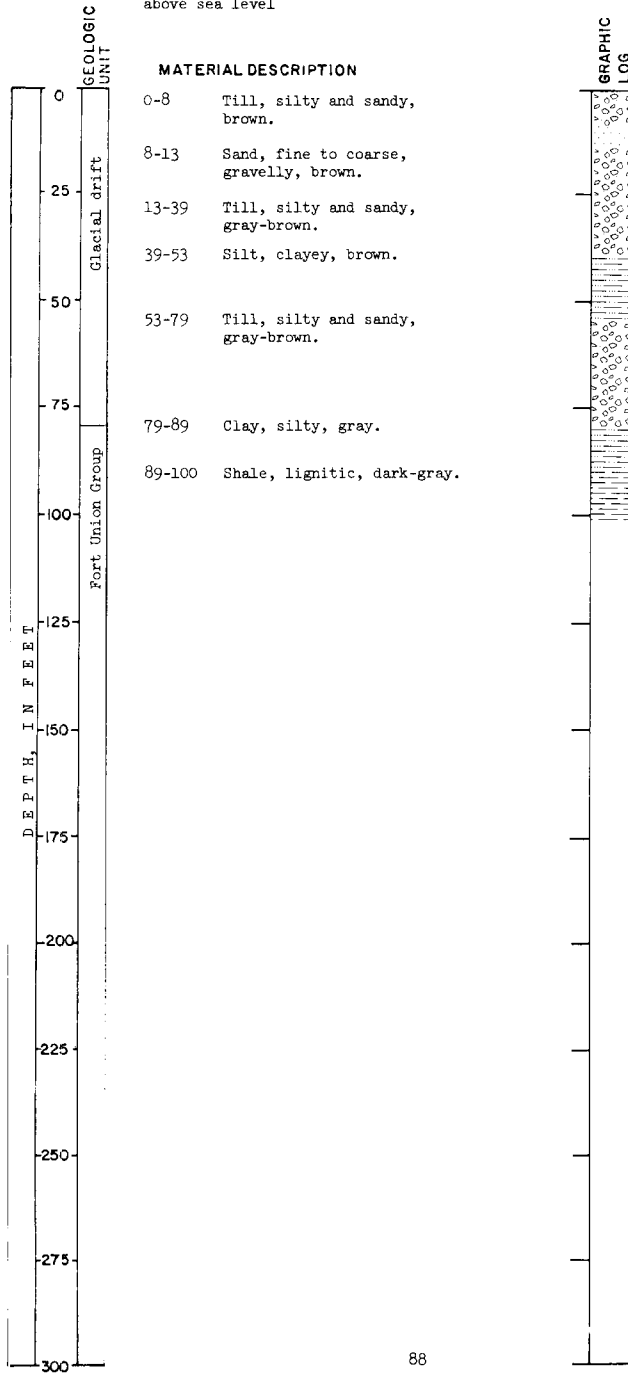
DEPTH: 135 feet



LOCATION: Ward County  
 152-87-23ab  
 ELEVATION: 2,077 feet  
 above sea level

TEST HOLE  
 U.S. Air Force

DATE DRILLED: 1961  
 DEPTH: 100 feet



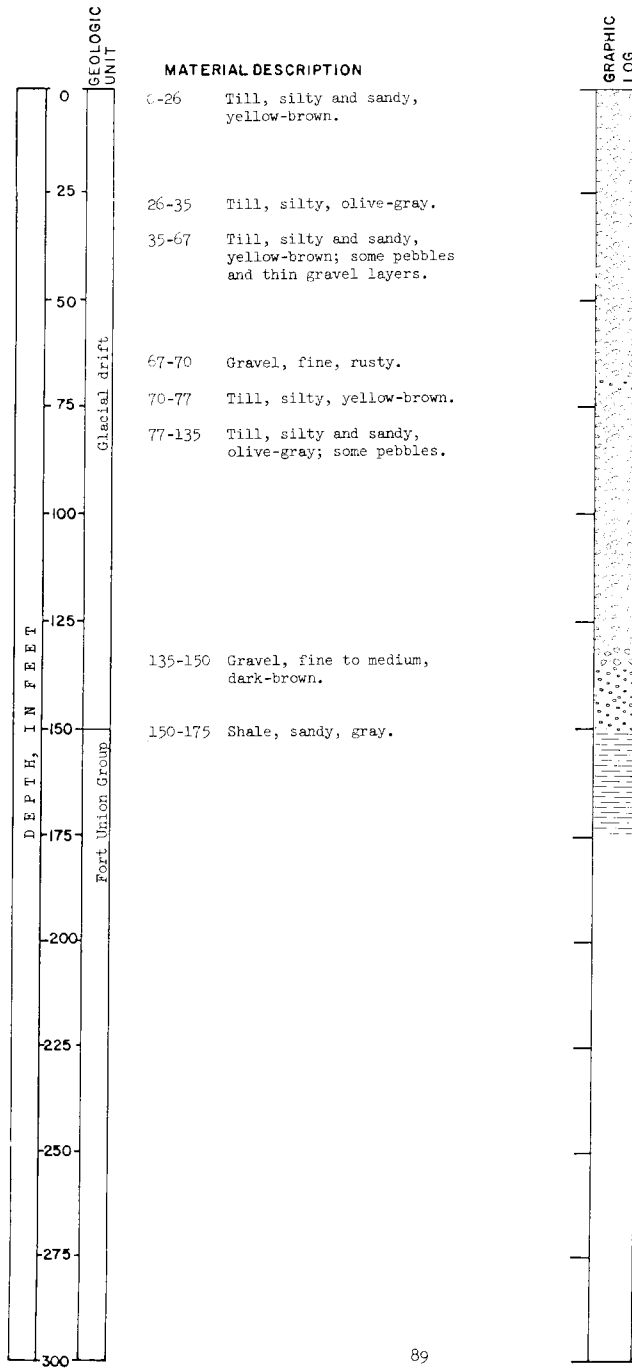
LOCATION: Ward County  
152-87-27bbc

TEST HOLE 3196A

DATE DRILLED: May 17, 1965

ELEVATION:

DEPTH: 175 feet



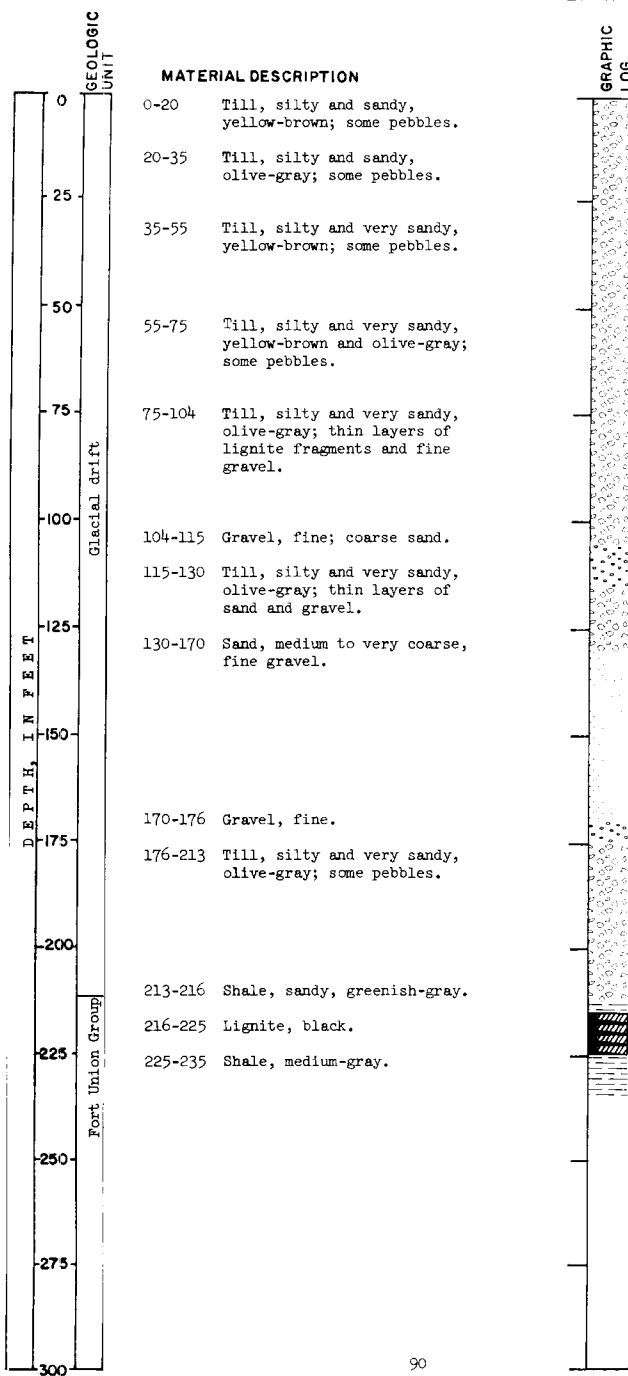
LOCATION: Ward County  
152-87-27cbb

ELEVATION:

TEST HOLE 3196

DATE DRILLED: May 13, 1965

DEPTH: 235 feet



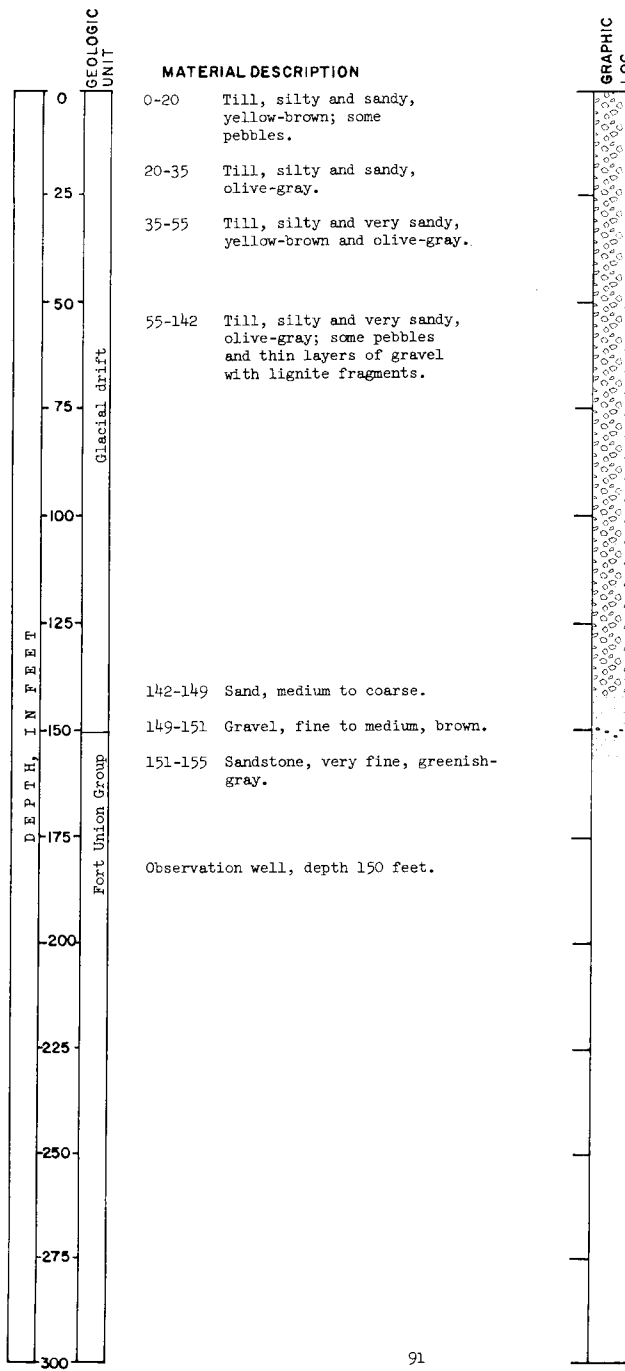
LOCATION: Ward County  
152-87-283aa

Makoti test hole

DATE DRILLED: May 18, 1965

ELEVATION:

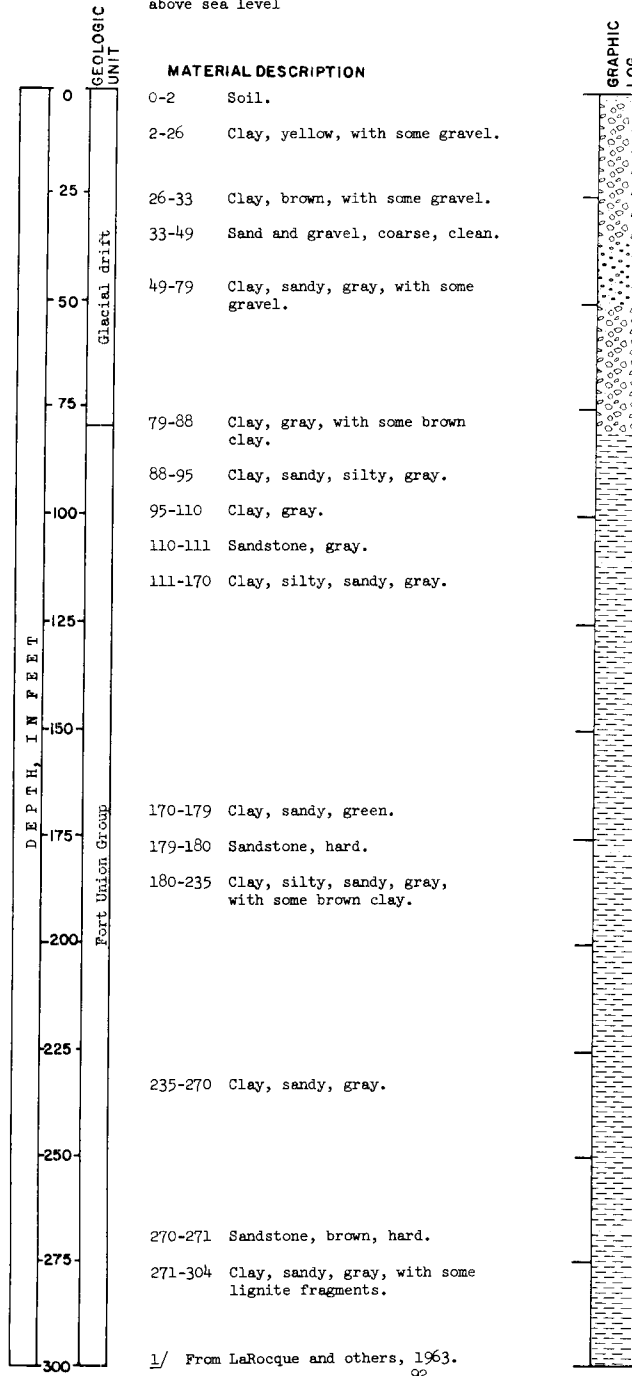
DEPTH: 155 feet



LOCATION: Ward County  
 153-81-1aaa U.S. Geol. Survey<sup>1/</sup>

ELEVATION: 1,613 feet  
 above sea level

TEST HOLE  
 DATE DRILLED: August 5, 1947  
 DEPTH: 304 feet



<sup>1/</sup> From LaRocque and others, 1963.

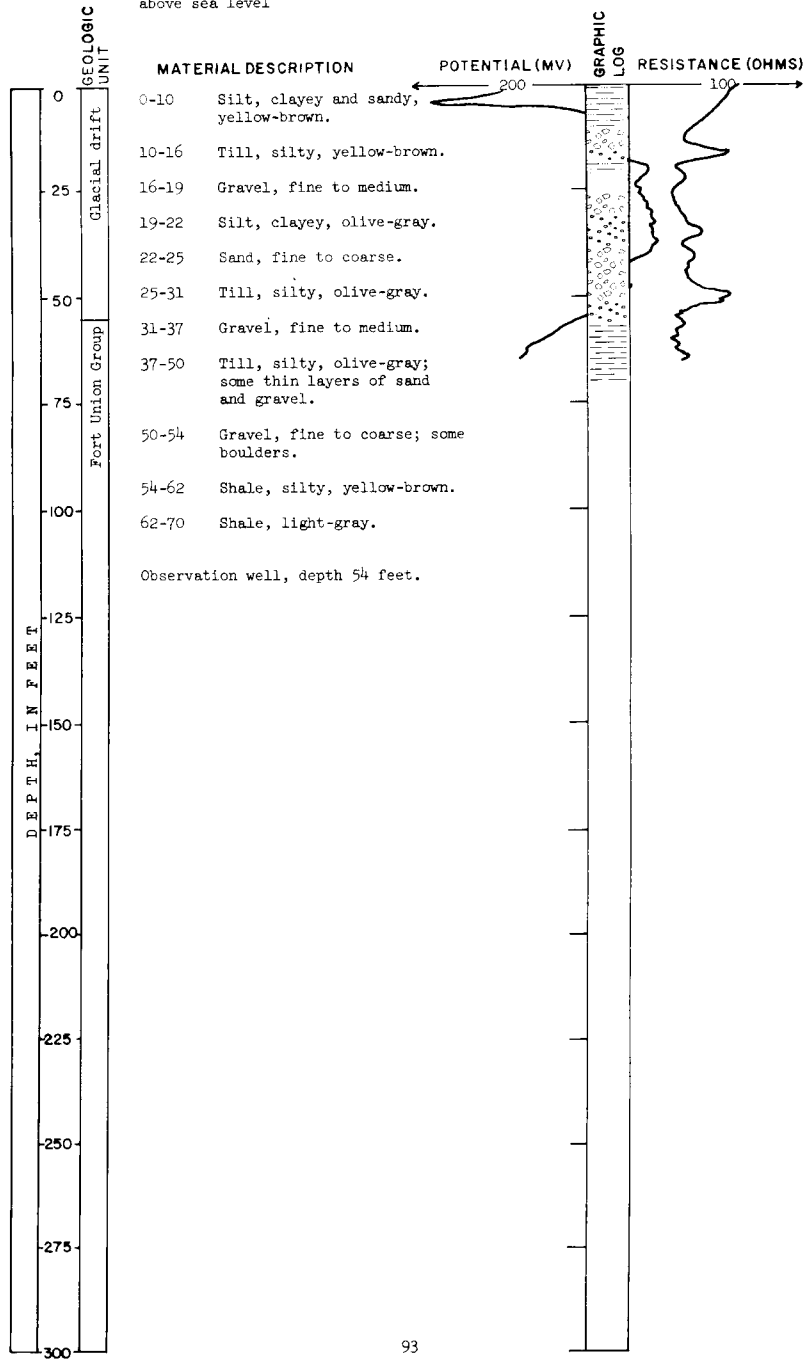
LOCATION: Ward County  
153-81-3cbc

ELEVATION: 1,527 feet  
above sea level

TEST HOLE 3325

DATE DRILLED: May 31, 1966

DEPTH: 70 feet





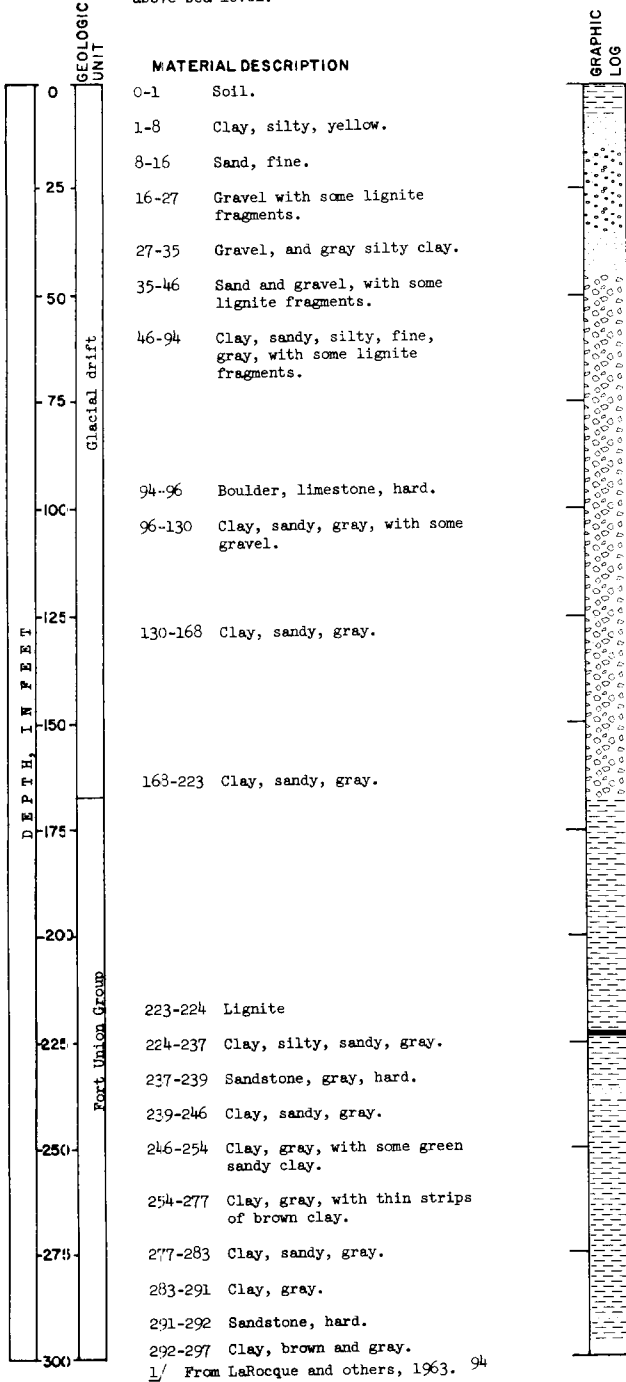
LOCATION: Ward County  
153-81-11baa

TEST HOLE  
U.S. Geol. Survey<sup>1/</sup>

DATE DRILLED: August 6, 1947

ELEVATION: 1,523 feet  
above sea level.

DEPTH: 297 feet



<sup>1/</sup> From LaRocque and others, 1963. <sup>94</sup>

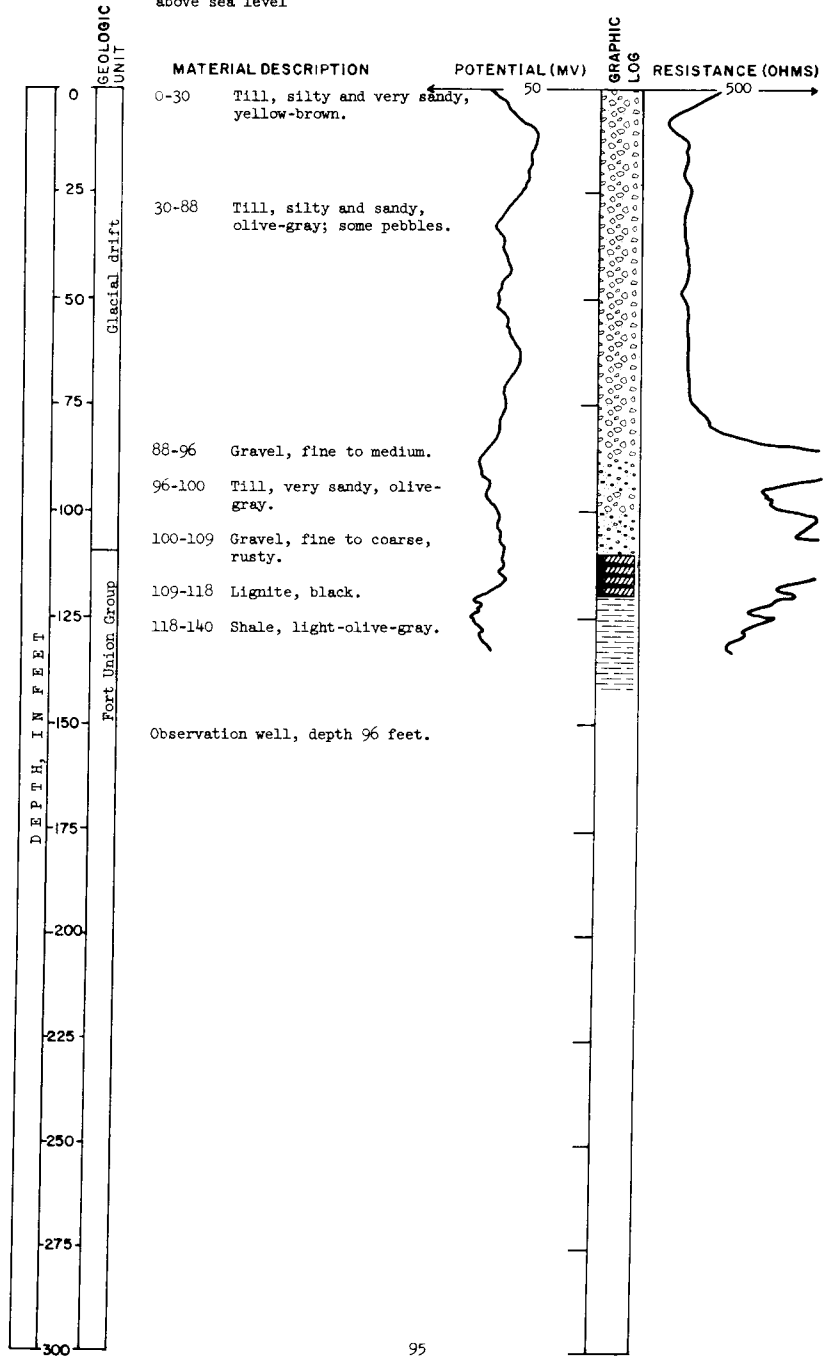
LOCATION: Ward County  
153-83-13bbb

ELEVATION: 1,883 feet  
above sea level

TEST HOLE 3217

DATE DRILLED: June 3, 1965

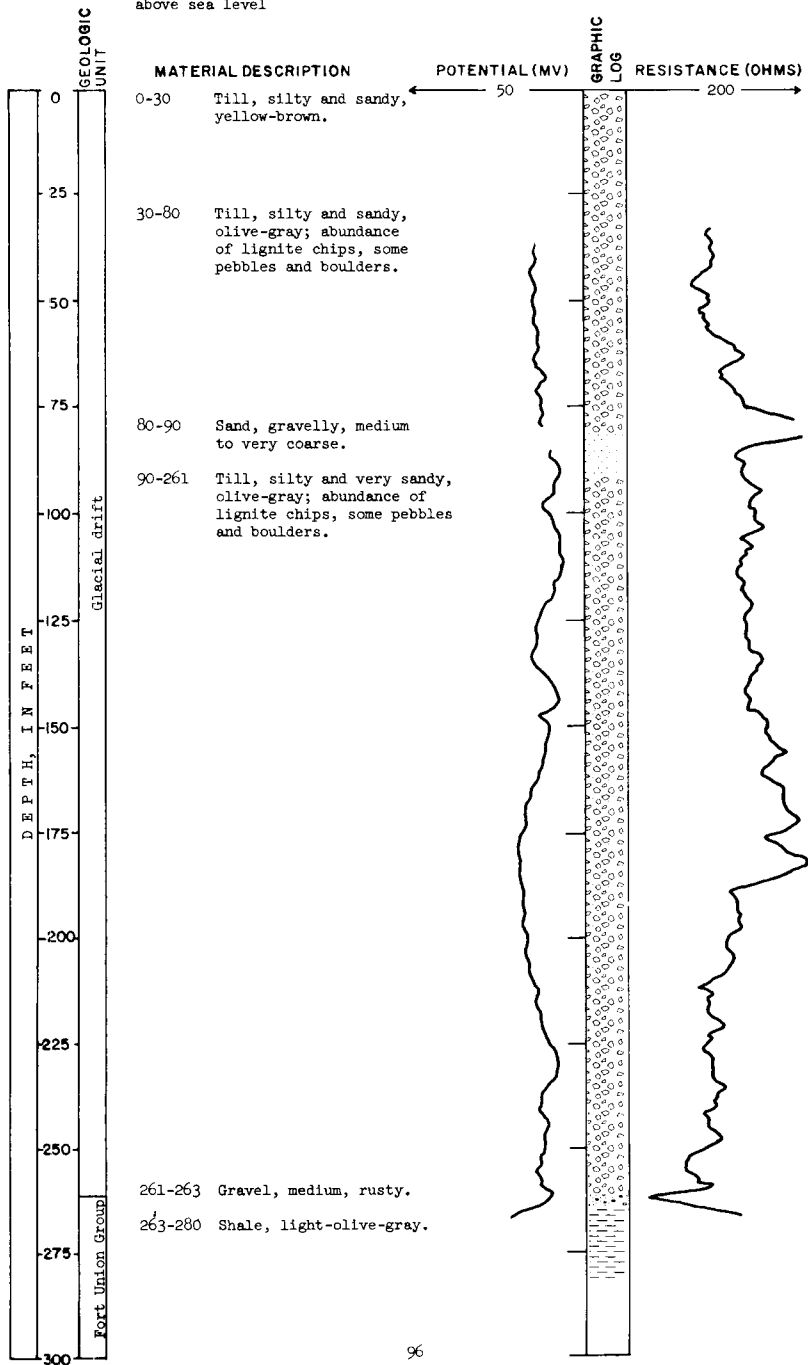
DEPTH: 140 feet



LOCATION: Ward County  
153-83-20cbe  
ELEVATION: 2,105 feet  
above sea level

TEST HOLE 3215

DATE DRILLED: June 3, 1965  
DEPTH: 280 feet



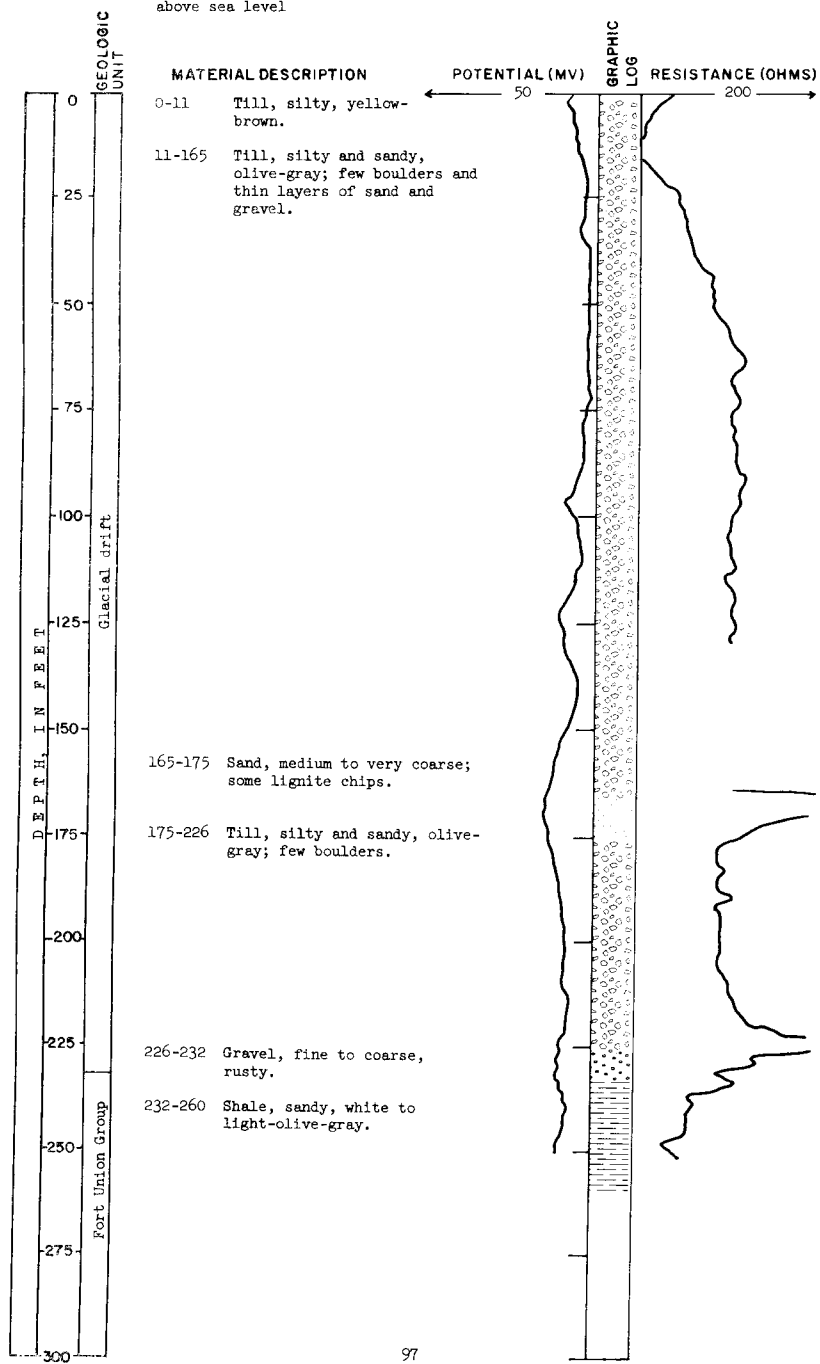
LOCATION: Ward County  
153-84-3bbb

ELEVATION: 2,020 feet  
above sea level

TEST HOLE 3214

DATE DRILLED: June 2, 1965

DEPTH: 260 feet



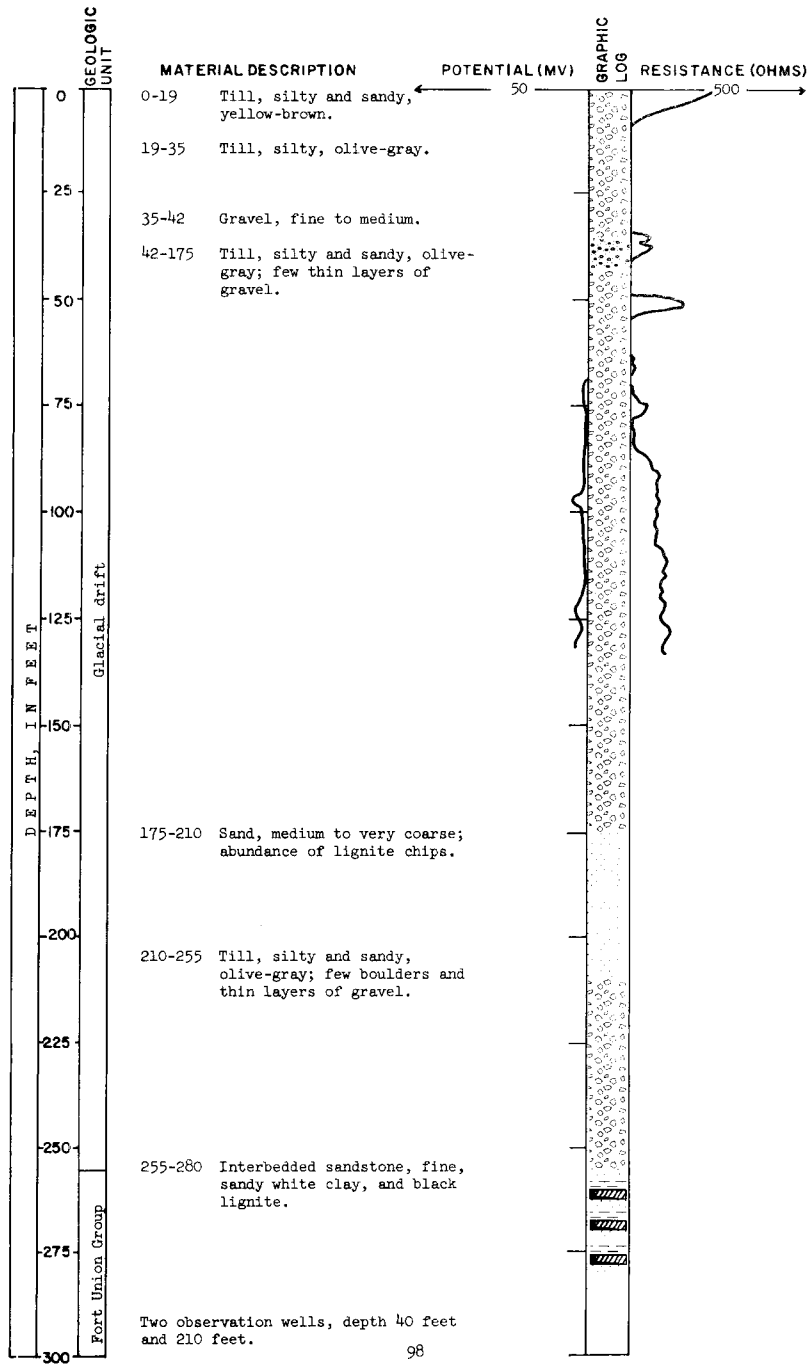
LOCATION: Ward County  
153-84-7aba

ELEVATION:

TEST HOLE 3213

DATE DRILLED: June 2, 1965

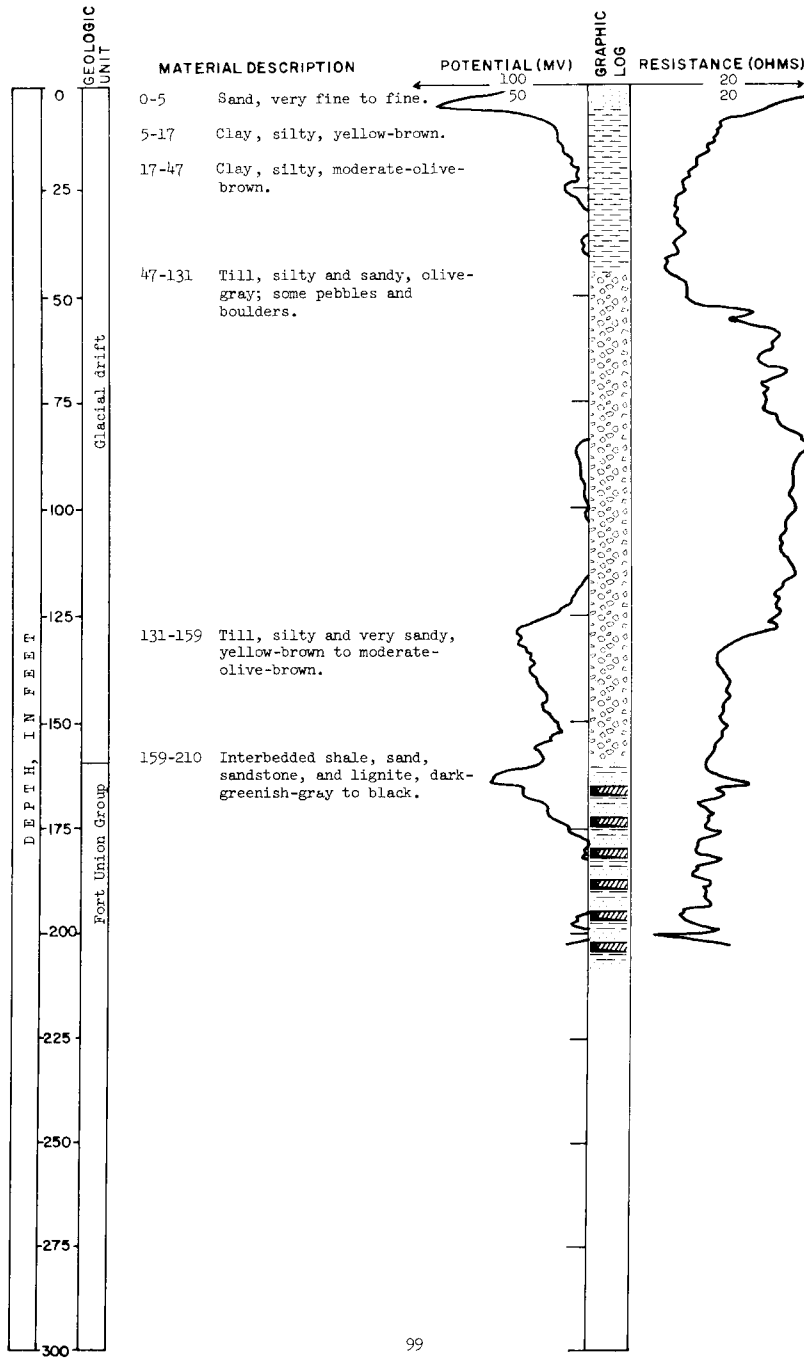
DEPTH: 280 feet



LOCATION: Ward County  
153-85-26bb  
ELEVATION:

TEST HOLE 3320

DATE DRILLED: May 25, 1966  
DEPTH: 210 feet

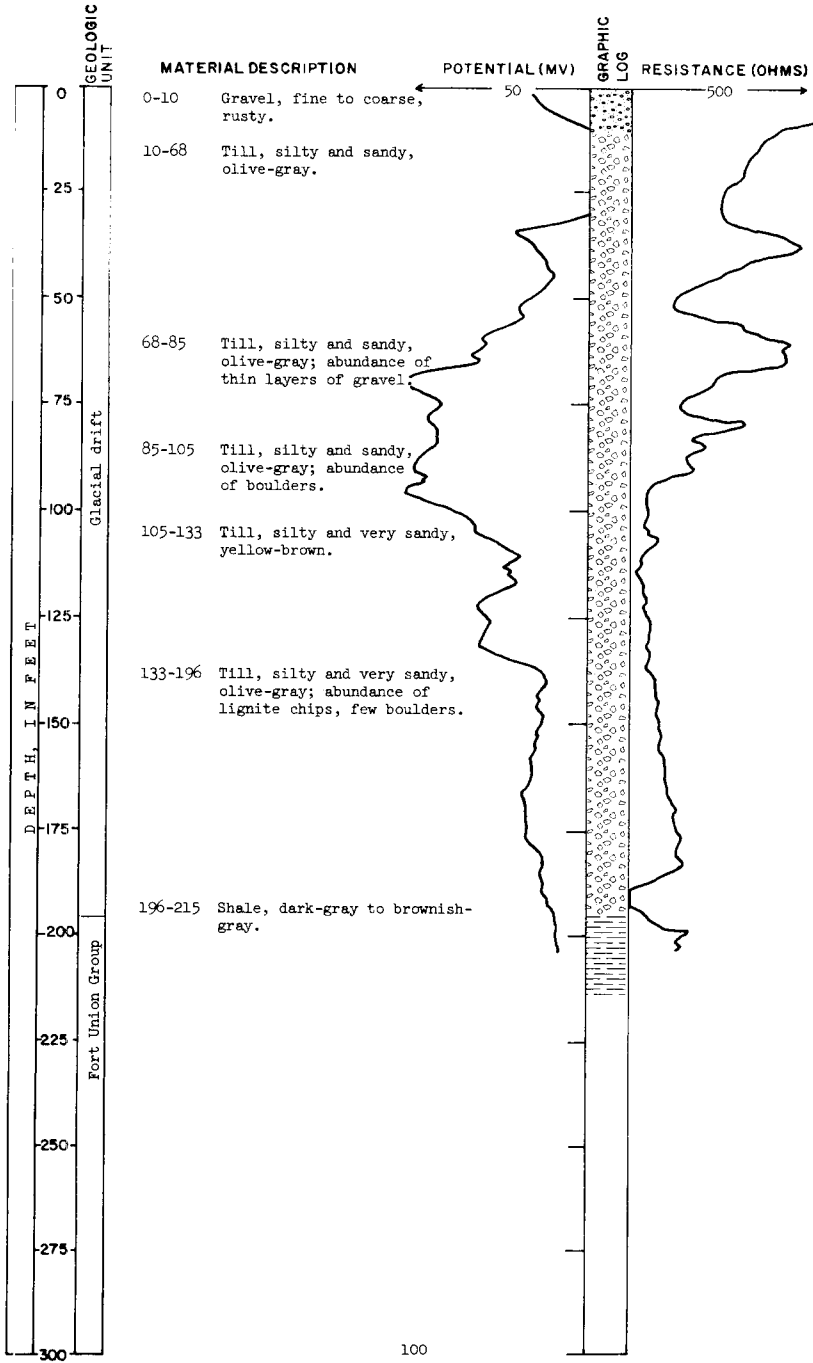


LOCATION: Ward County  
153-85-19ddb

TEST HOLE 3205

DATE DRILLED: May 20, 1965

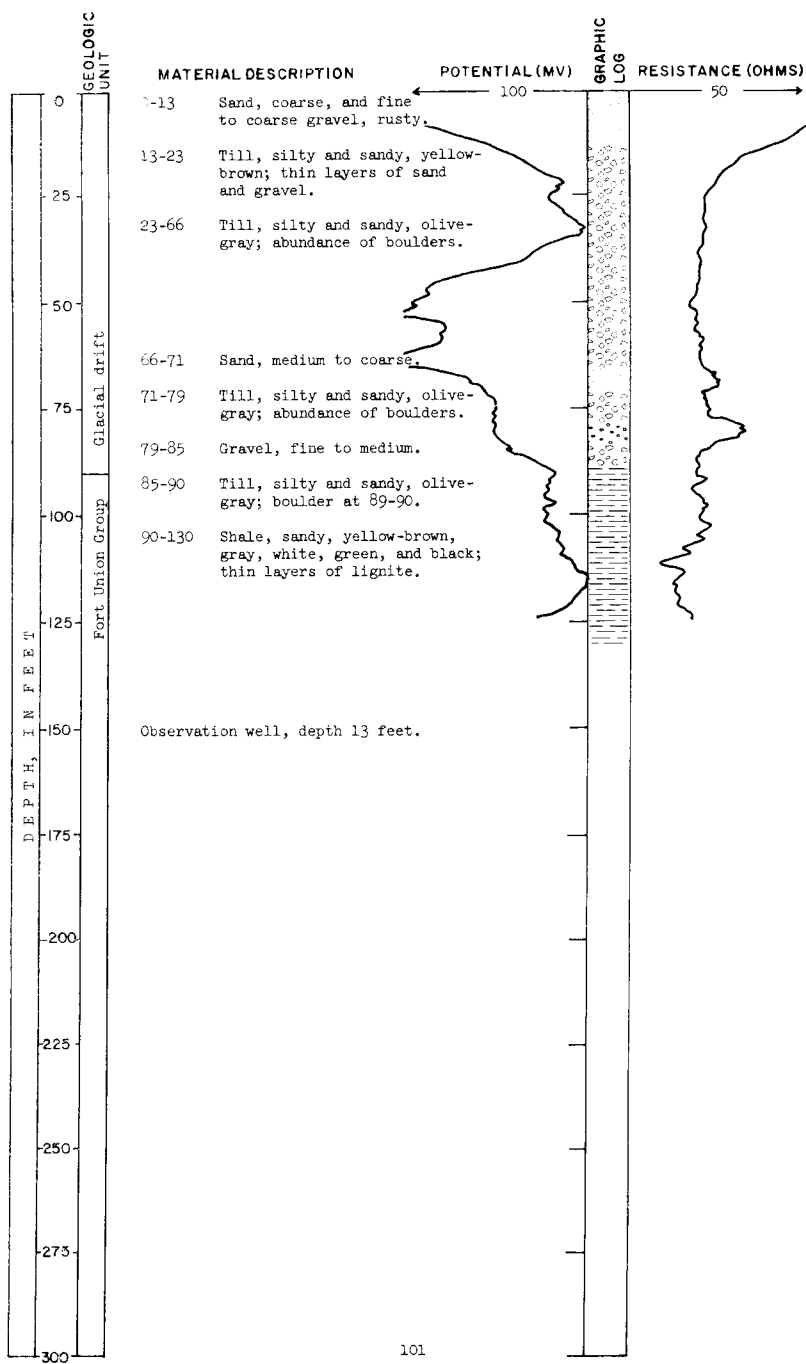
DEPTH: 215 feet



LOCATION: Ward County  
153-85-24ded  
ELEVATION:

TEST HOLE 3321

DATE DRILLED: May 25, 1966  
DEPTH: 130 feet





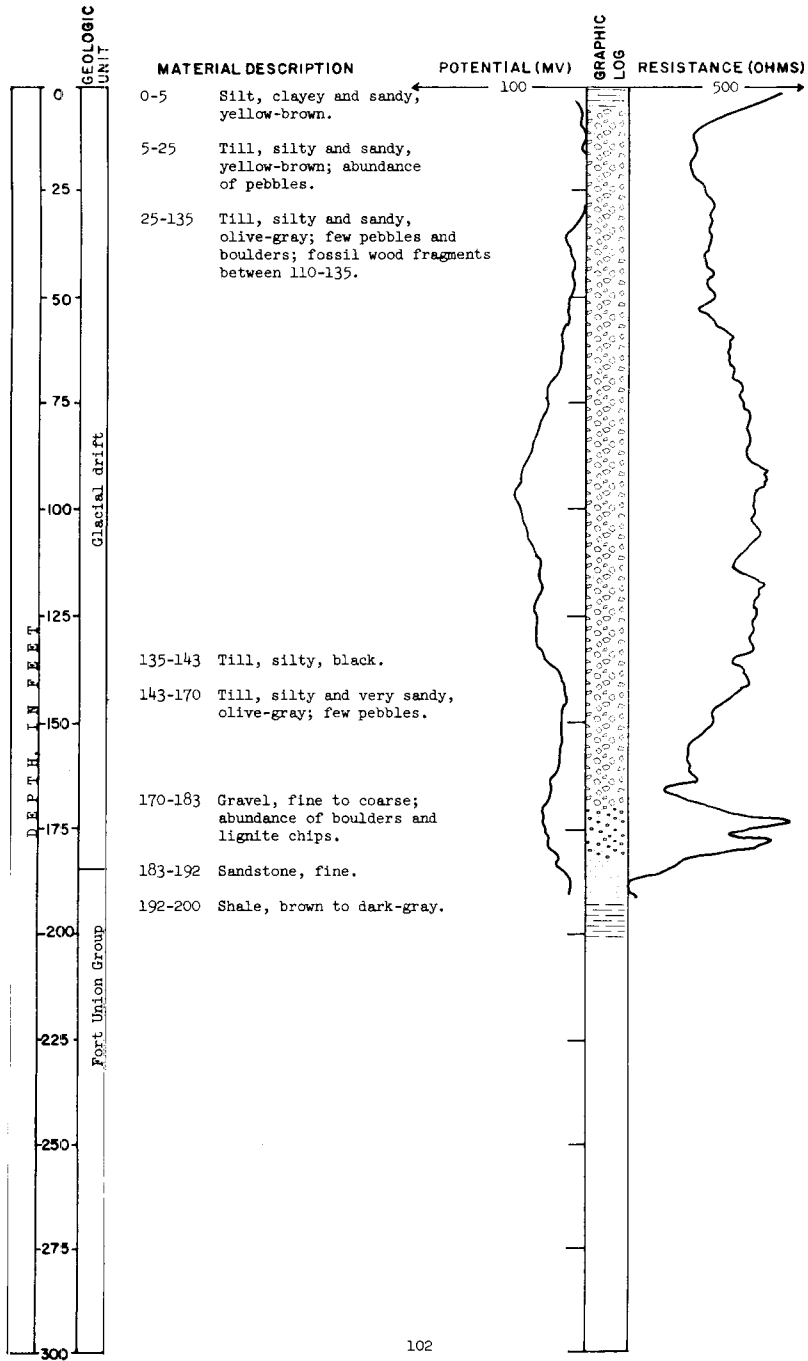
LOCATION: Ward County  
153-86-3dab

ELEVATION:

TEST HOLE 3206

DATE DRILLED: May 21, 1965

DEPTH: 200 feet



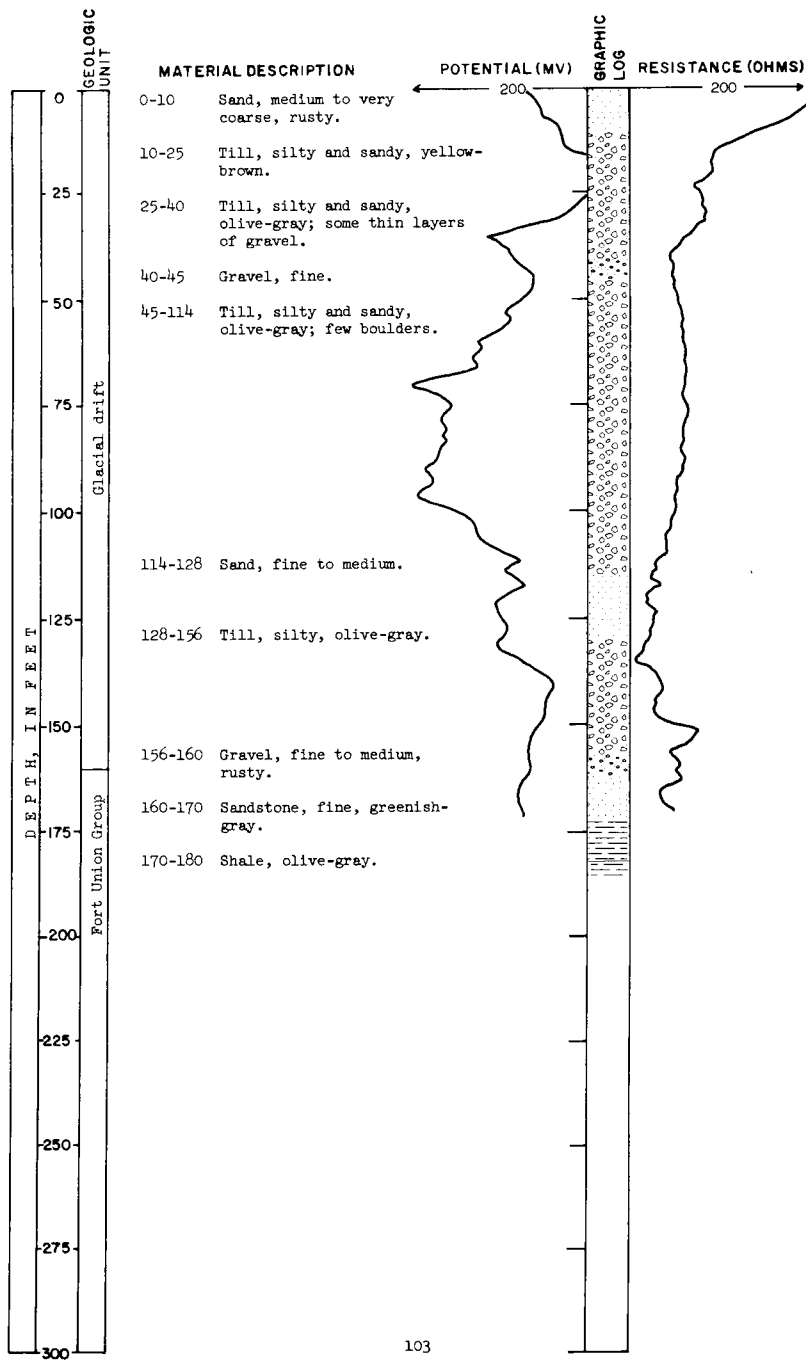
LOCATION: Ward County  
153-86-7bab

ELEVATION:

TEST HOLE 3207

DATE DRILLED: May 21, 1965

DEPTH: 180 feet

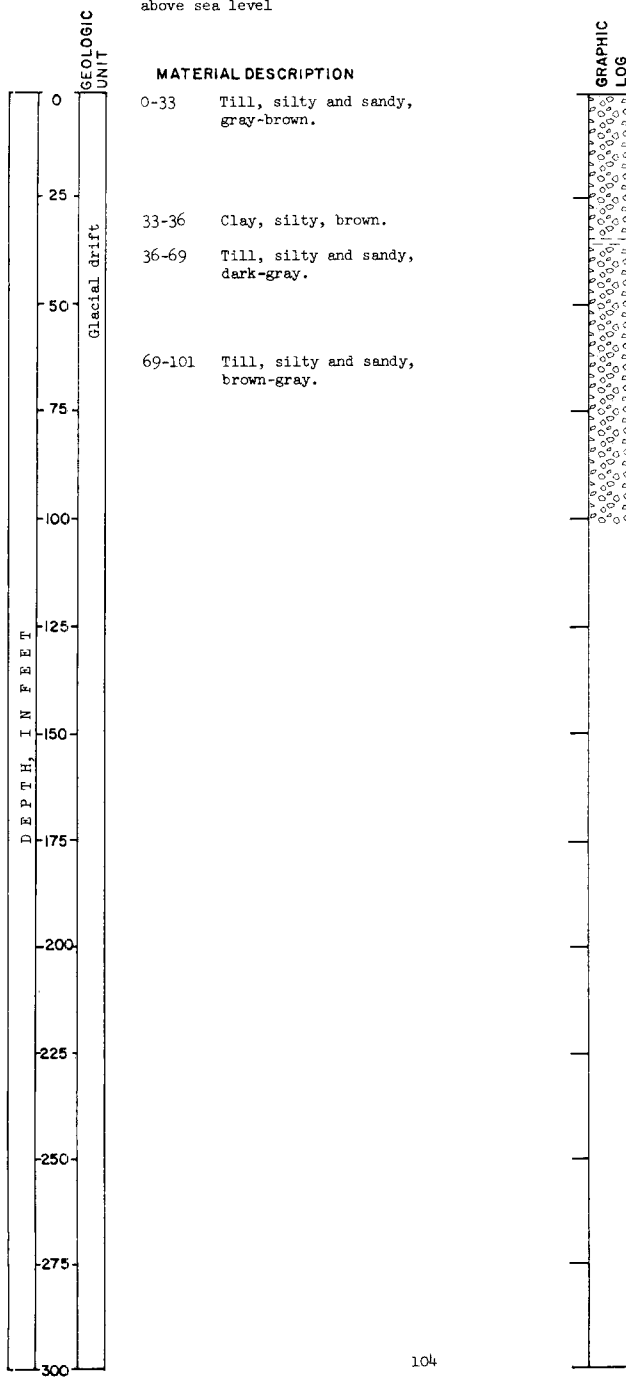


LOCATION: Ward County  
153-86-21cd  
ELEVATION: 2,093 feet  
above sea level

TEST HOLE  
U.S. Air Force

DATE DRILLED: 1961

DEPTH: 101 feet



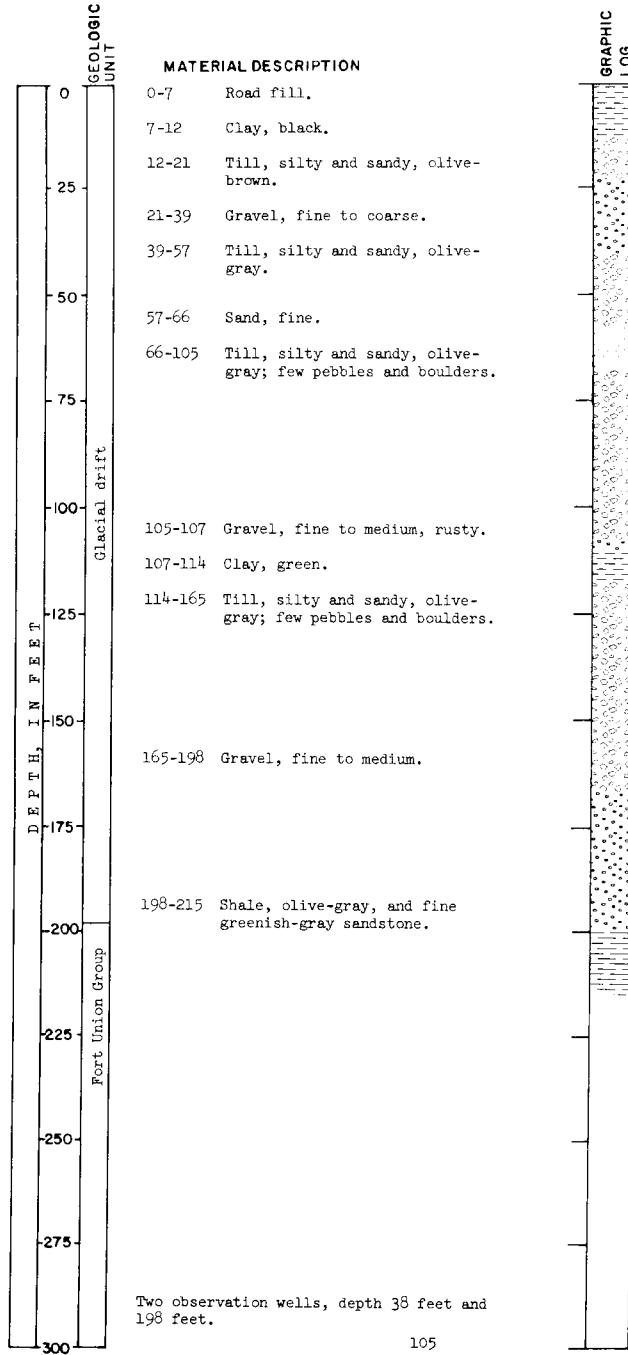
LOCATION: Ward County  
153-86-34cdd

ELEVATION:

TEST HOLE 3199

DATE DRILLED: May 18, 1965

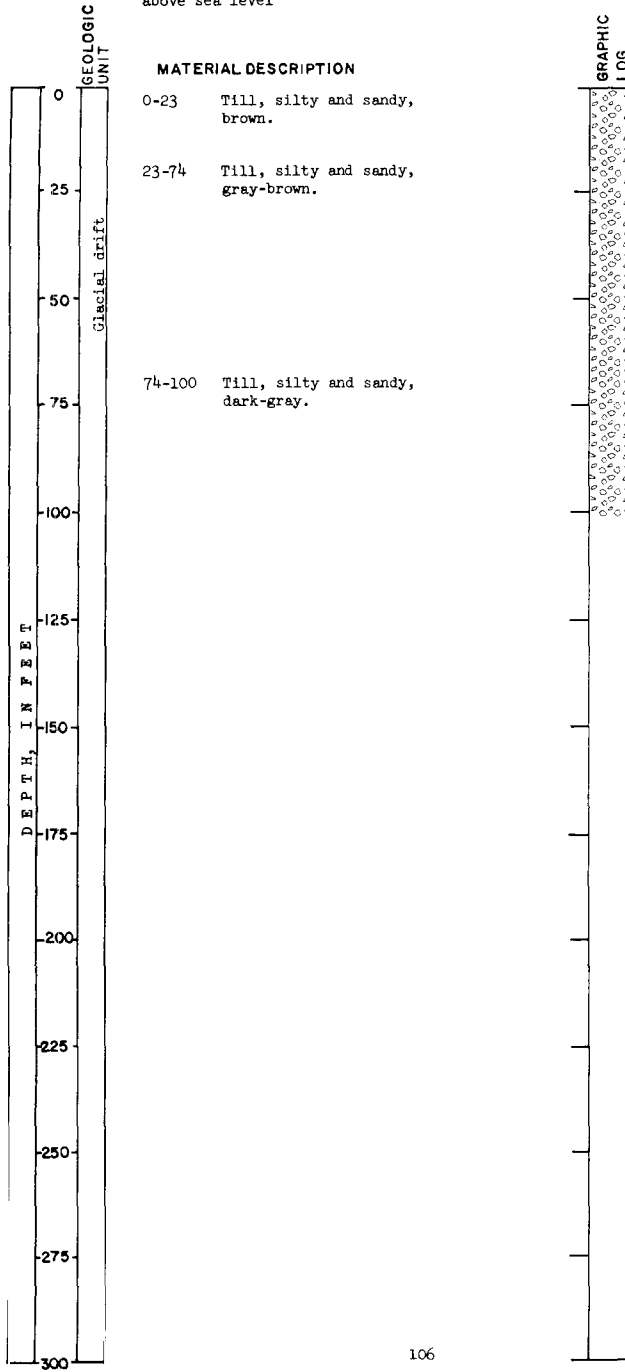
DEPTH: 215 feet



LOCATION: Ward County  
153-87-27bb  
ELEVATION: 2,089 feet  
above sea level

TEST HOLE  
U.S. Air Force

DATE DRILLED: 1961  
DEPTH: 100 feet

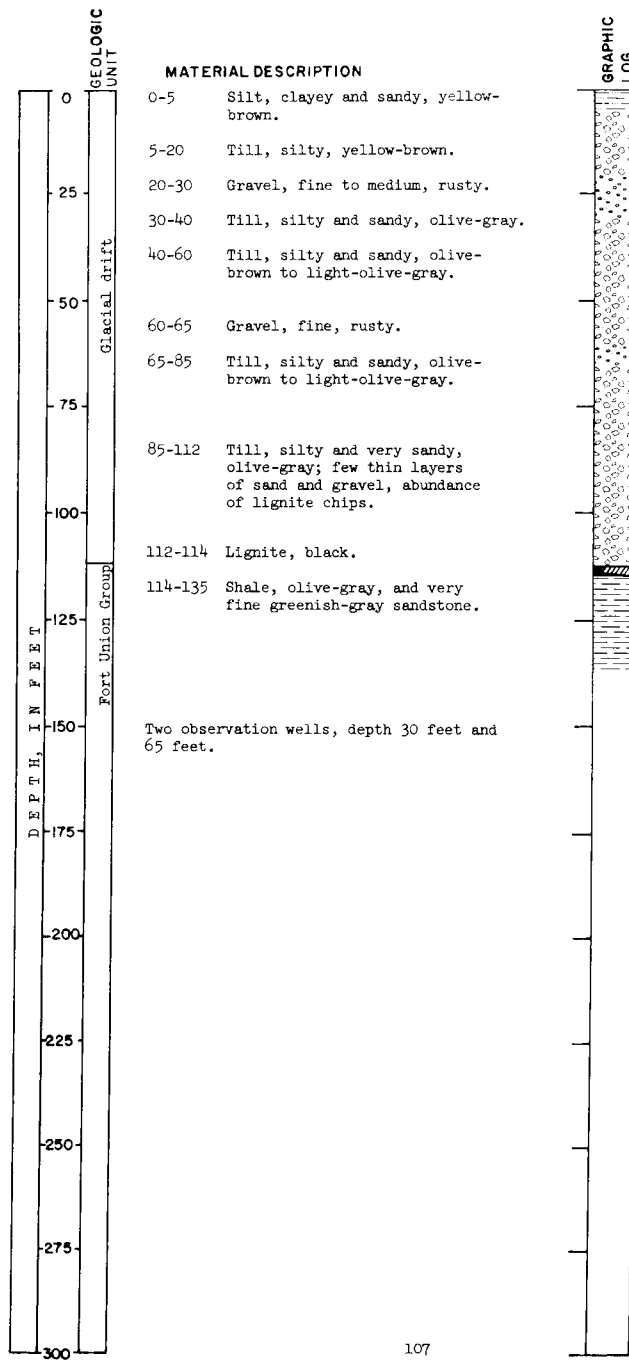


LOCATION: Ward County  
153-87-28bbb

TEST HOLE 3198

DATE DRILLED: May 17, 1965

DEPTH: 135 feet



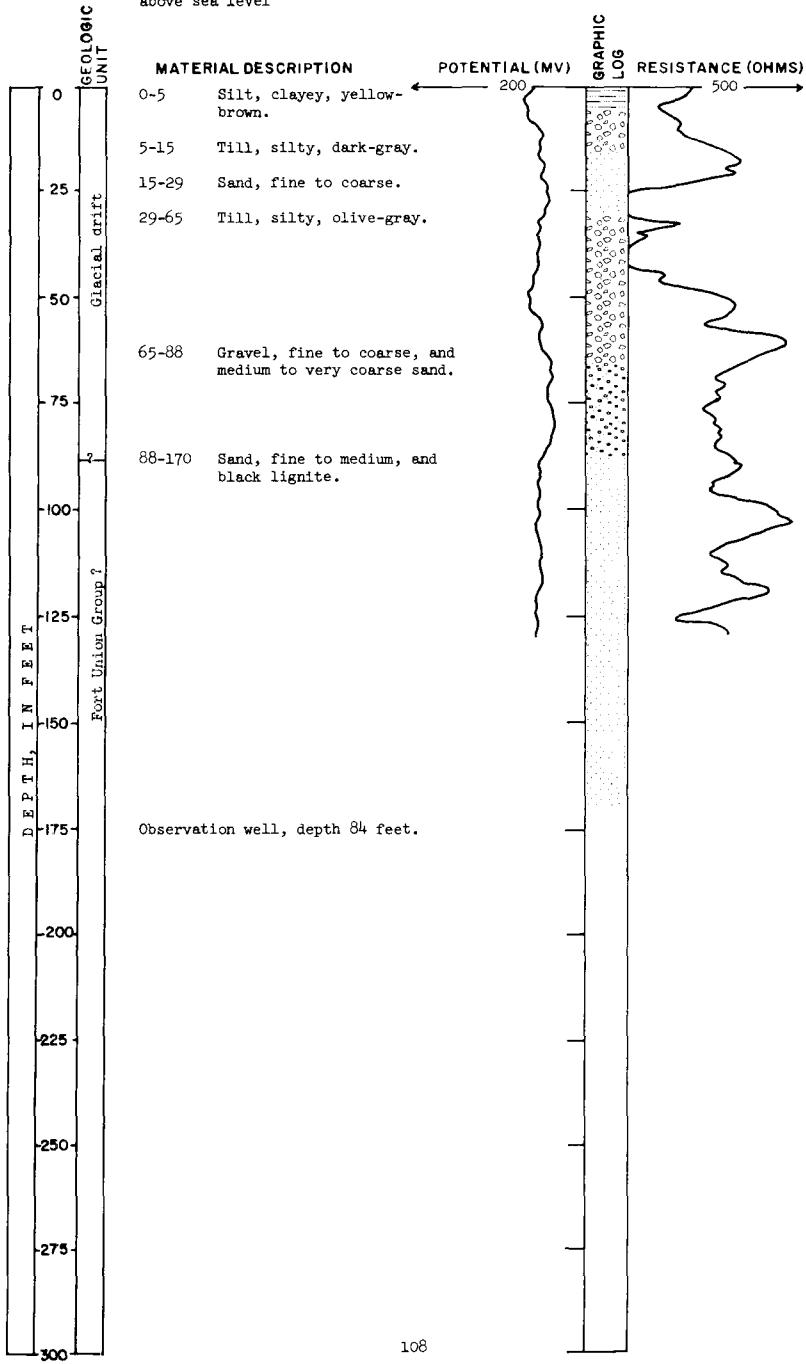
LOCATION: Ward County  
154-82-3cac

ELEVATION: 1,527 feet  
above sea level

TEST HOLE  
Bison Plant  
No. 3

DATE DRILLED: August 25, 1965

DEPTH: 170 feet



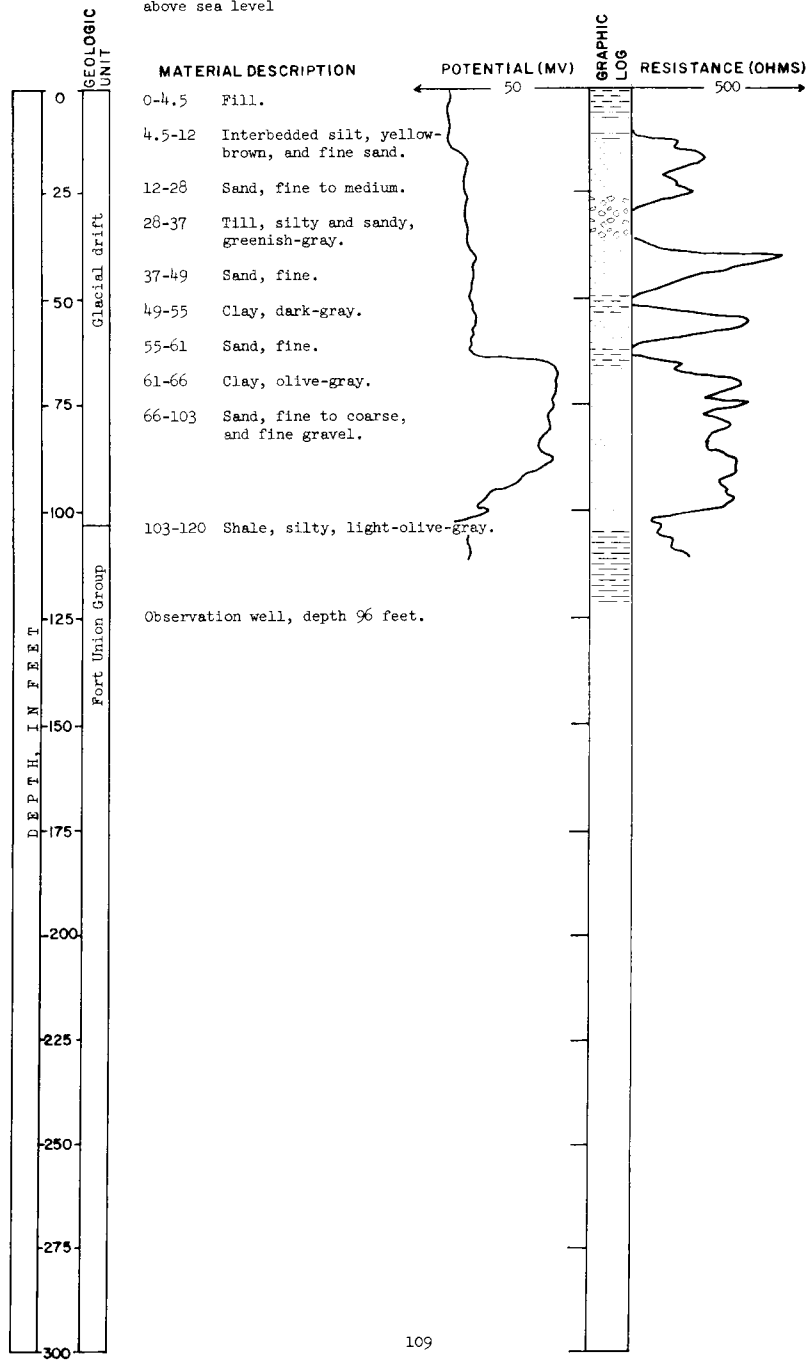
LOCATION: Ward County  
154-82-3cba

ELEVATION: 1,527 feet  
above sea level

TEST HOLE  
Bison Plant  
No. 4

DATE DRILLED: August 26, 1965

DEPTH: 120 feet





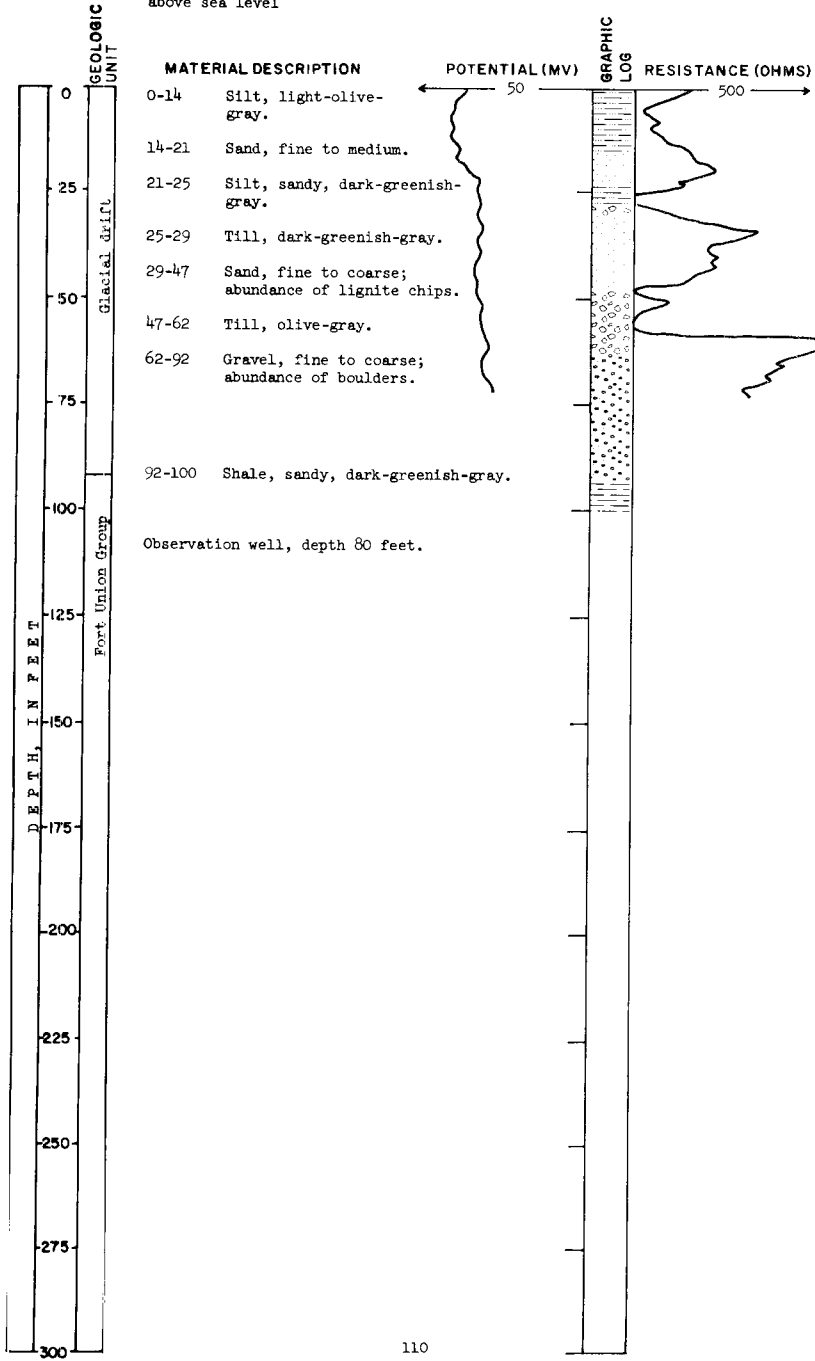
LOCATION: Ward County  
154-82-3cdbl

ELEVATION: 1,527 feet  
above sea level

TEST HOLE  
Bison Plant  
No. 1

DATE DRILLED: August 26, 1965

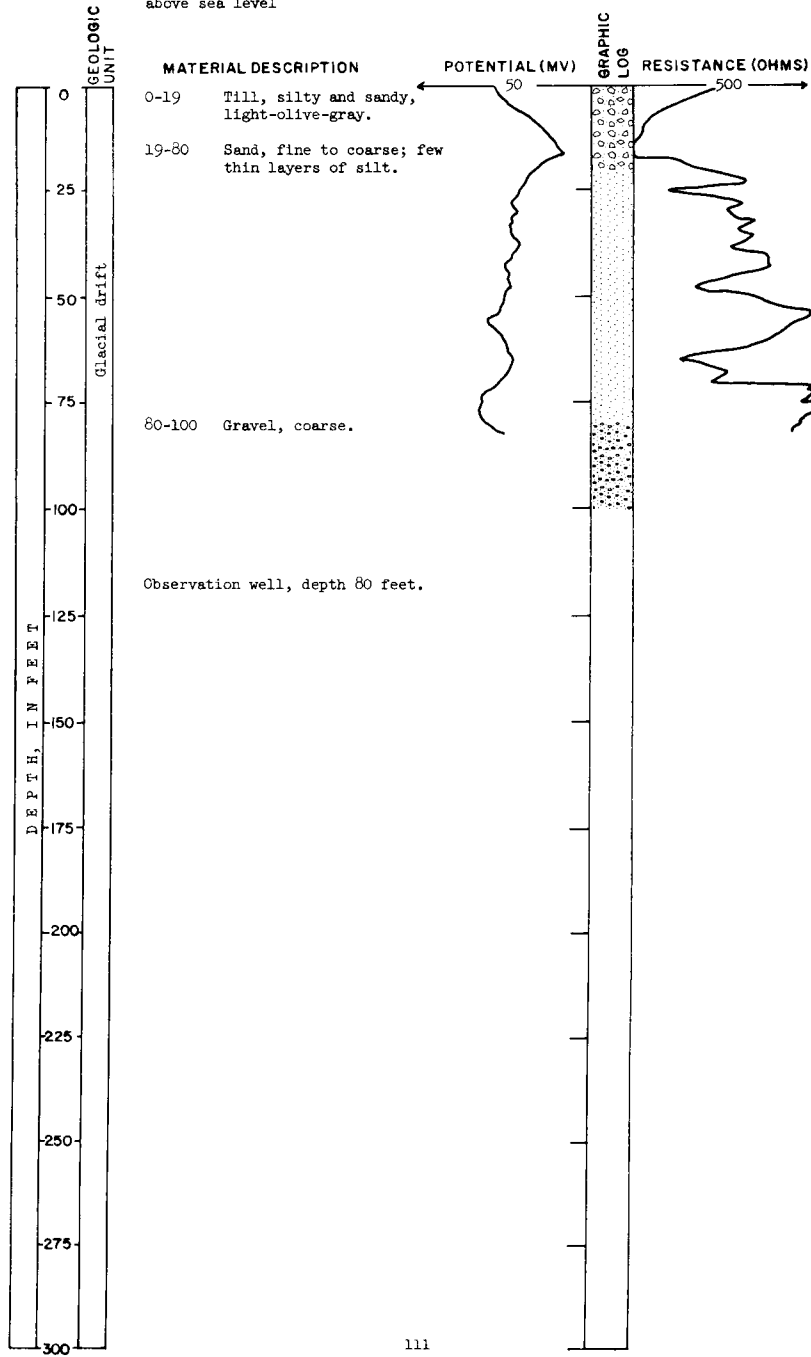
DEPTH: 100 feet



LOCATION: Ward County  
154-82-3cdb2  
ELEVATION: 1,527 feet  
above sea level

TEST HOLE  
Bison Plant  
No. 2

DATE DRILLED: July 25, 1965  
DEPTH: 100 feet



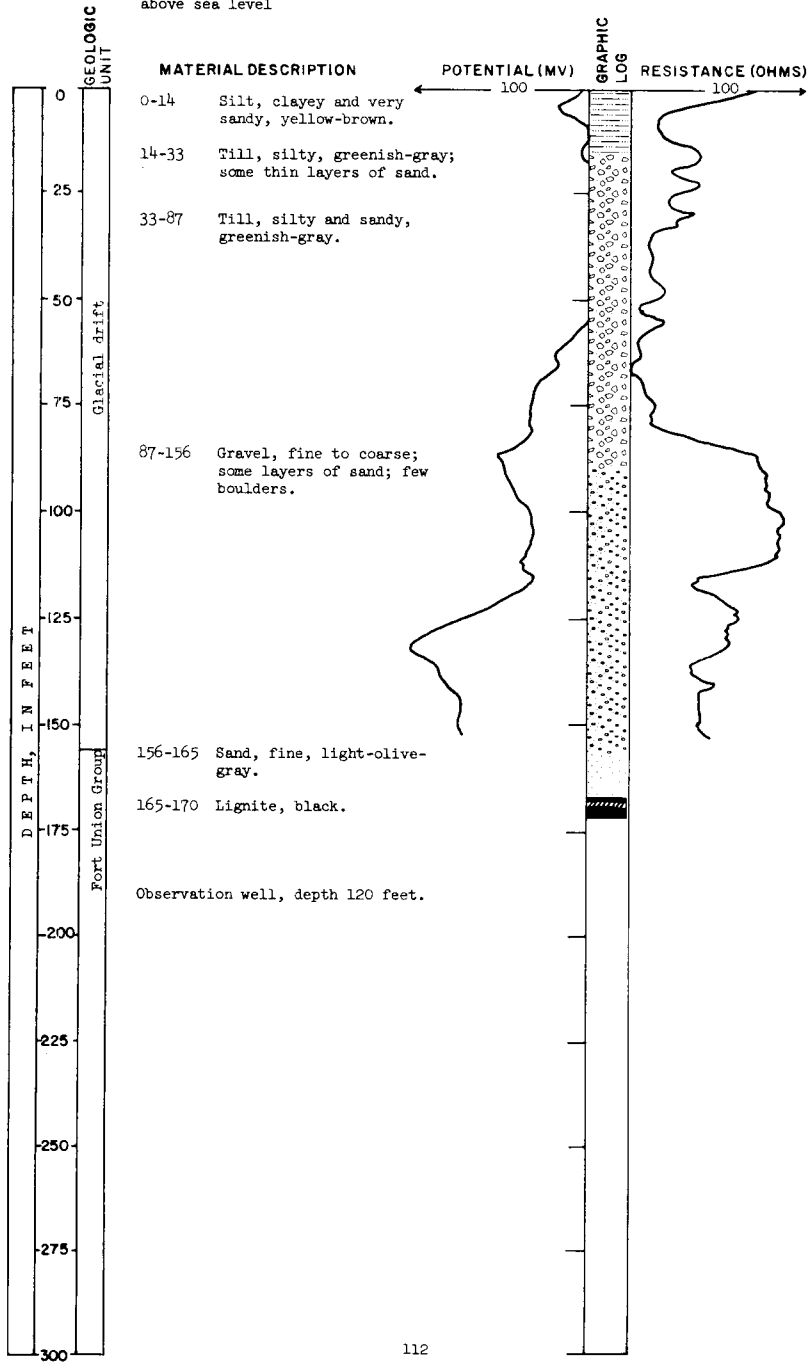
LOCATION: Ward County  
154-82-10bbb

ELEVATION: 1,543 feet  
above sea level

TEST HOLE 3326

DATE DRILLED: May 31, 1966

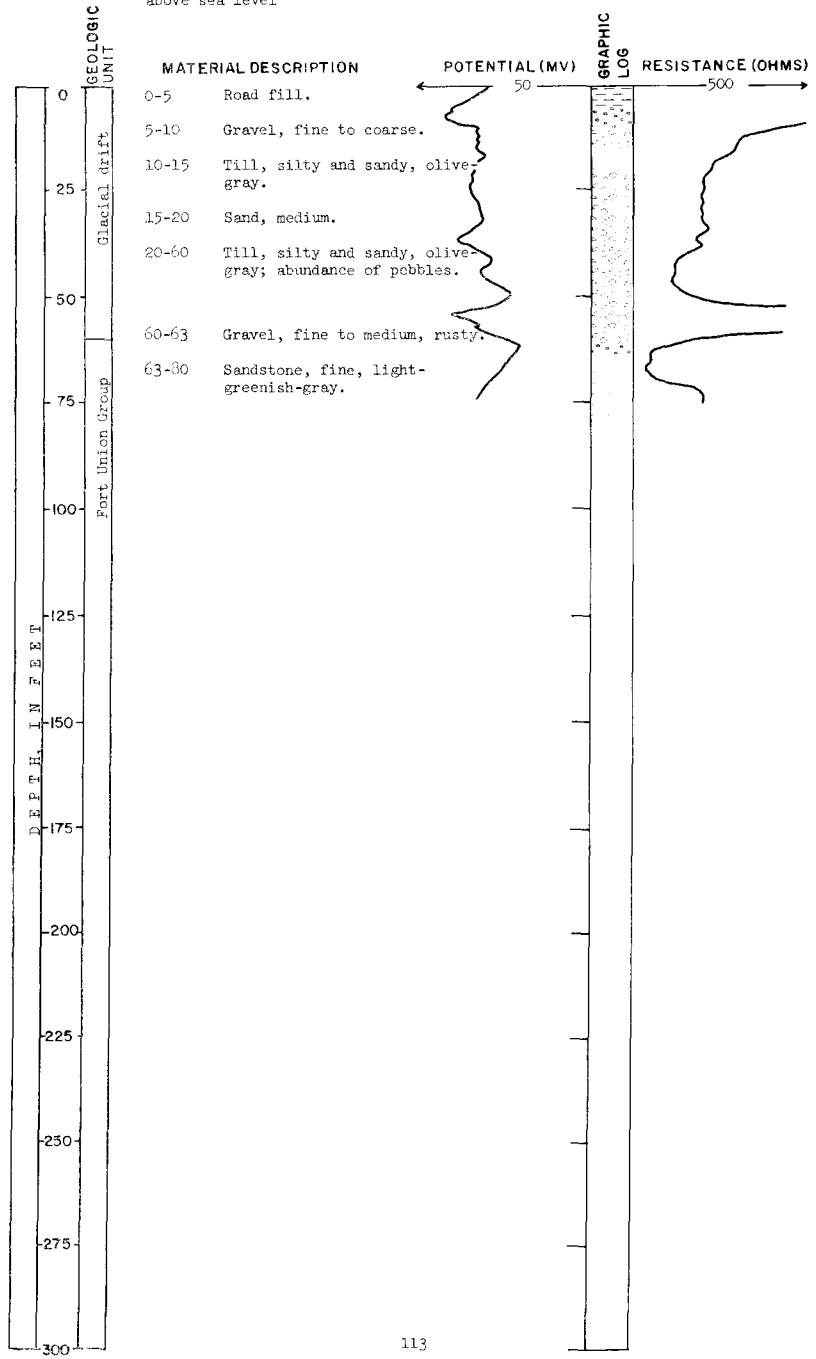
DEPTH: 170 feet



LOCATION: Ward County  
 154-83-2daa  
 ELEVATION: 1,680 feet  
 above sea level

TEST HOLE 3219

DATE DRILLED: June 4, 1965  
 DEPTH: 80 feet



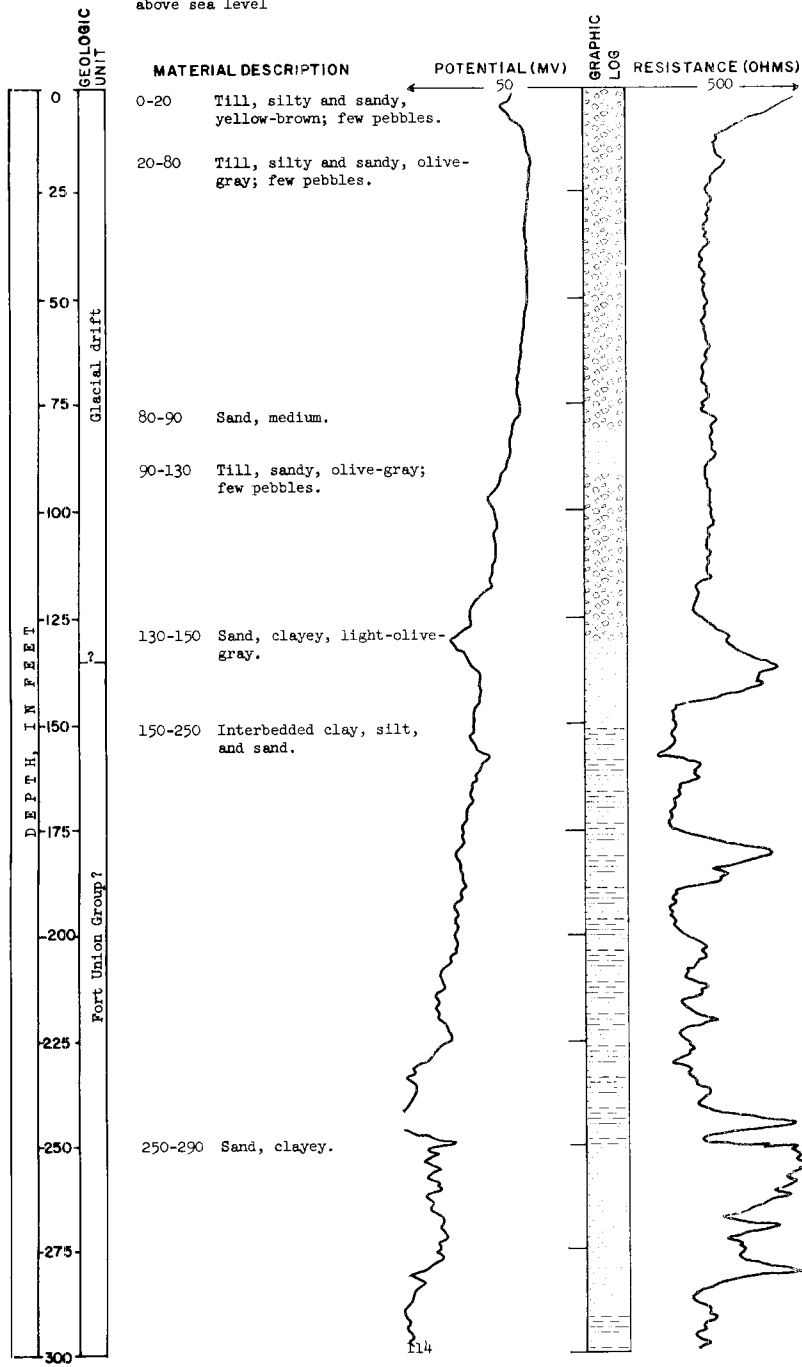
LOCATION: Ward County  
154-83-35add

ELEVATION: 1,780 feet  
above sea level

TEST HOLE 3218

DATE DRILLED: June 3, 1965

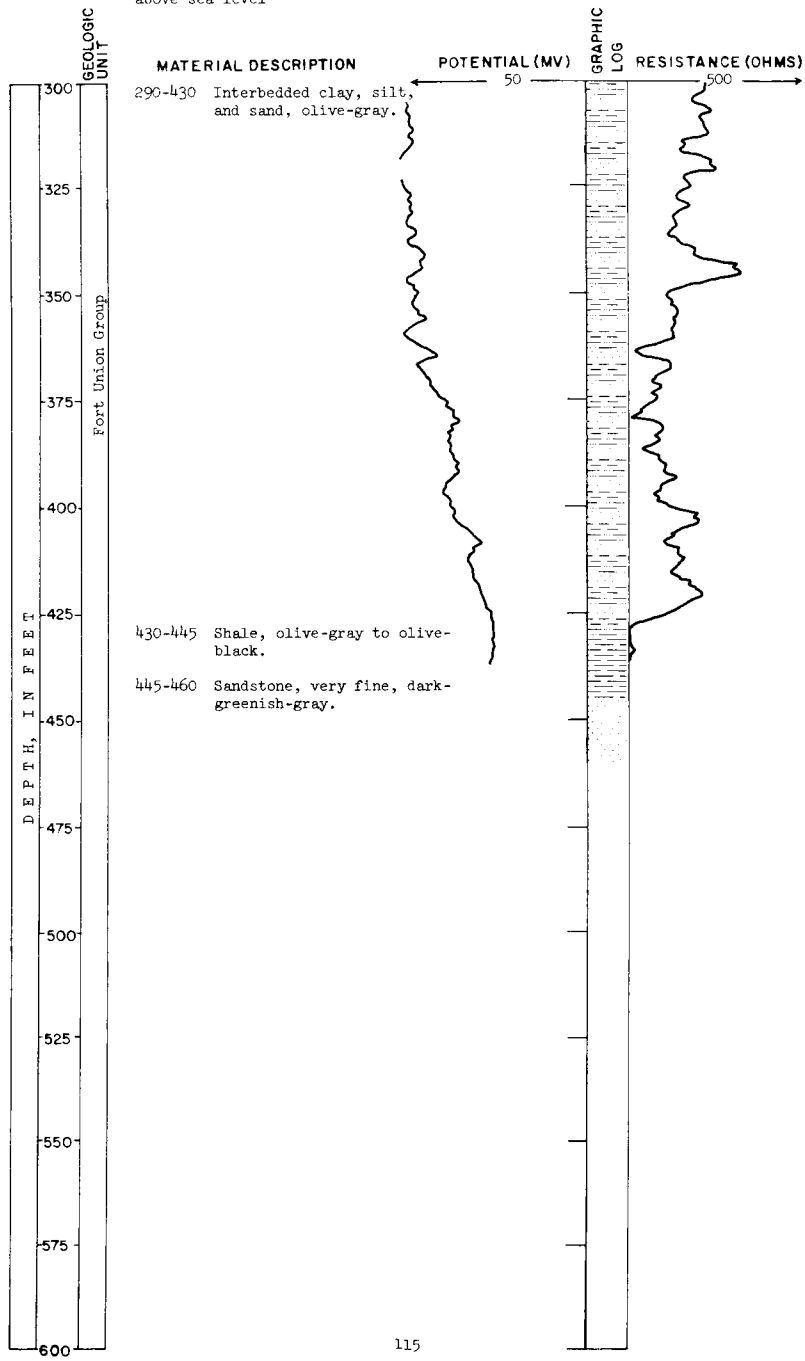
DEPTH: 460 feet



LOCATION: Ward County  
154-83-35add  
ELEVATION: 1,780 feet  
above sea level

TEST HOLE 3218  
(Continued)

DATE DRILLED: June 3, 1965  
DEPTH: 460 feet



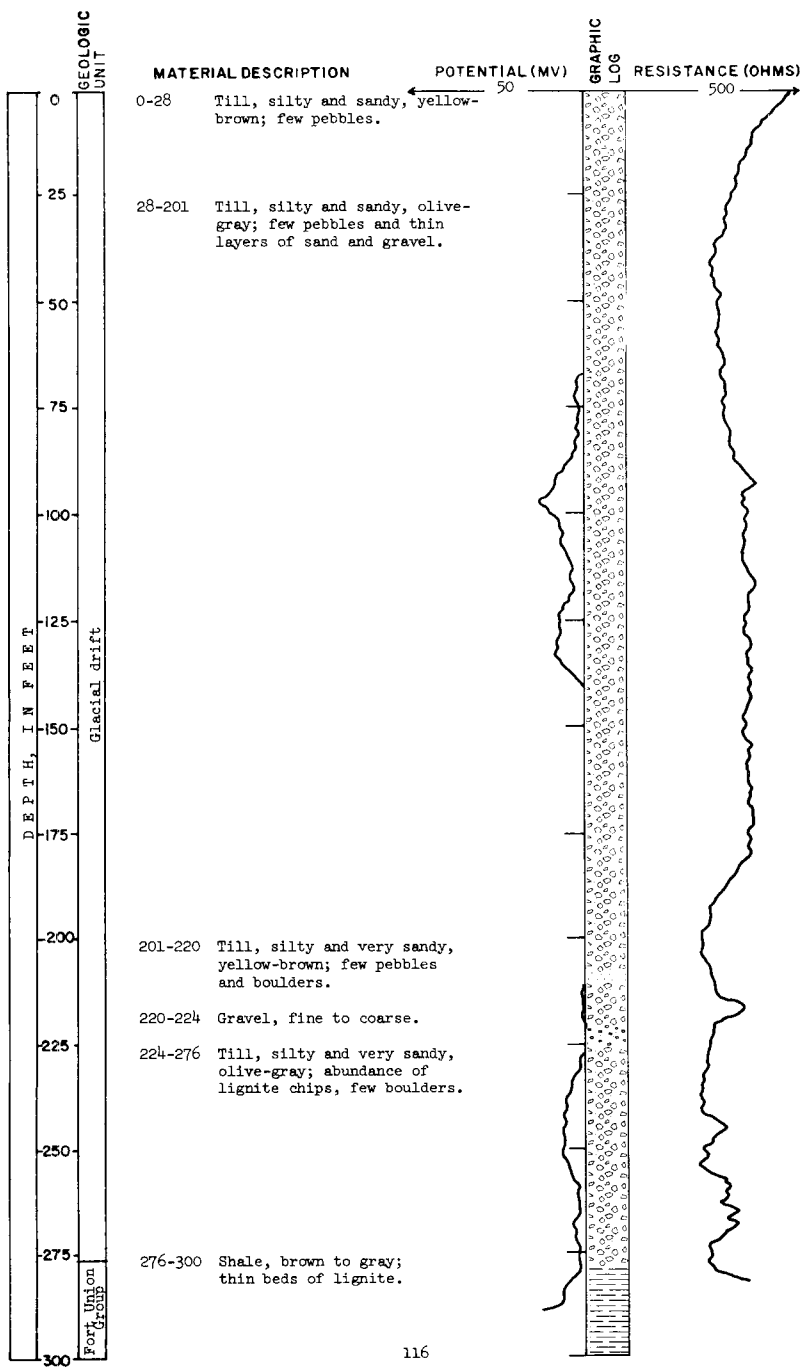
LOCATION: Ward County  
154-85-8bba

TEST HOLE 3210

DATE DRILLED: May 22, 1965

ELEVATION:

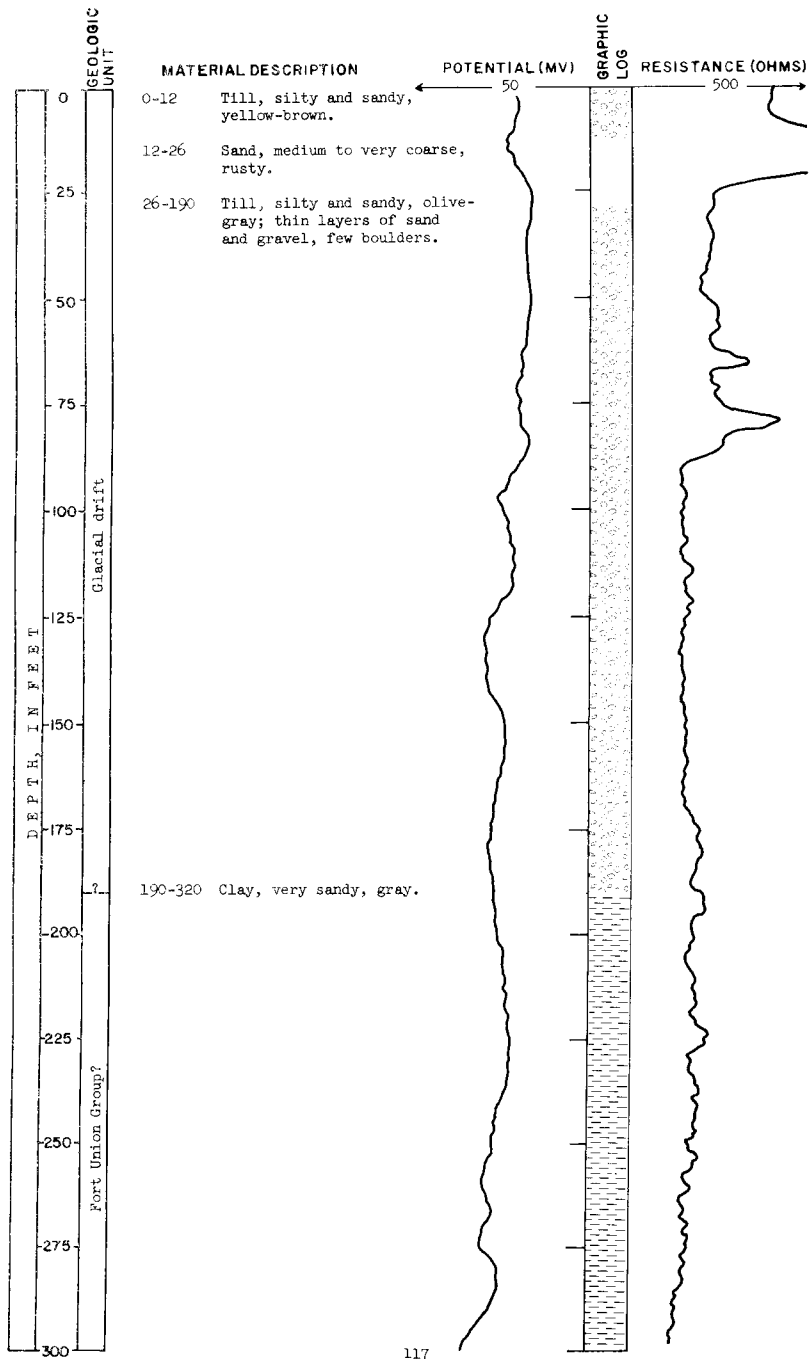
DEPTH: 300 feet



LOCATION: Ward County  
194-85-13cbe

TEST HOLE 3212

DATE DRILLED: June 1, 1965  
DEPTH: 360 feet

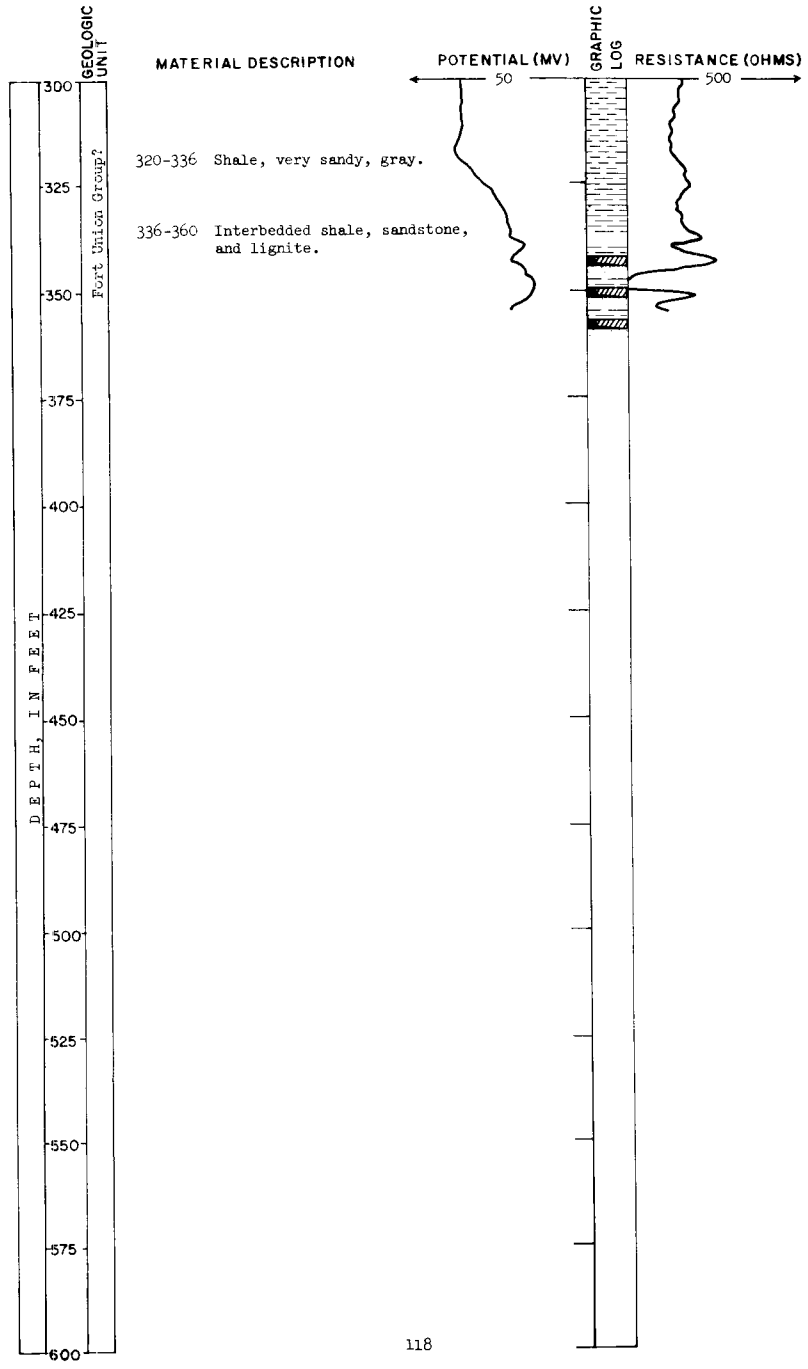




LOCATION: Ward County  
154-85-13cbe  
ELEVATION:

TEST HOLE 3212  
(Continued)

DATE DRILLED: June 1, 1965  
DEPTH: 360 feet

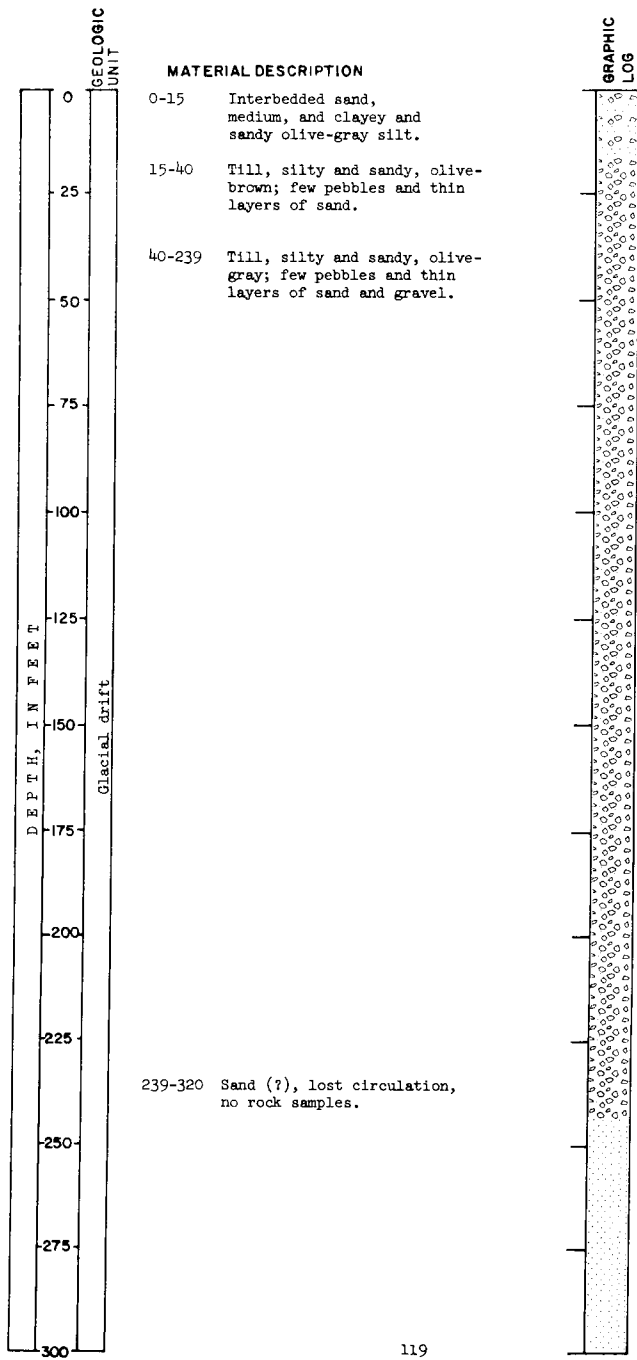


LOCATION: Ward County  
154-85-26bbd  
ELEVATION:

TEST HOLE 3211

DATE DRILLED: May 24, 1965

DEPTH: 320 feet



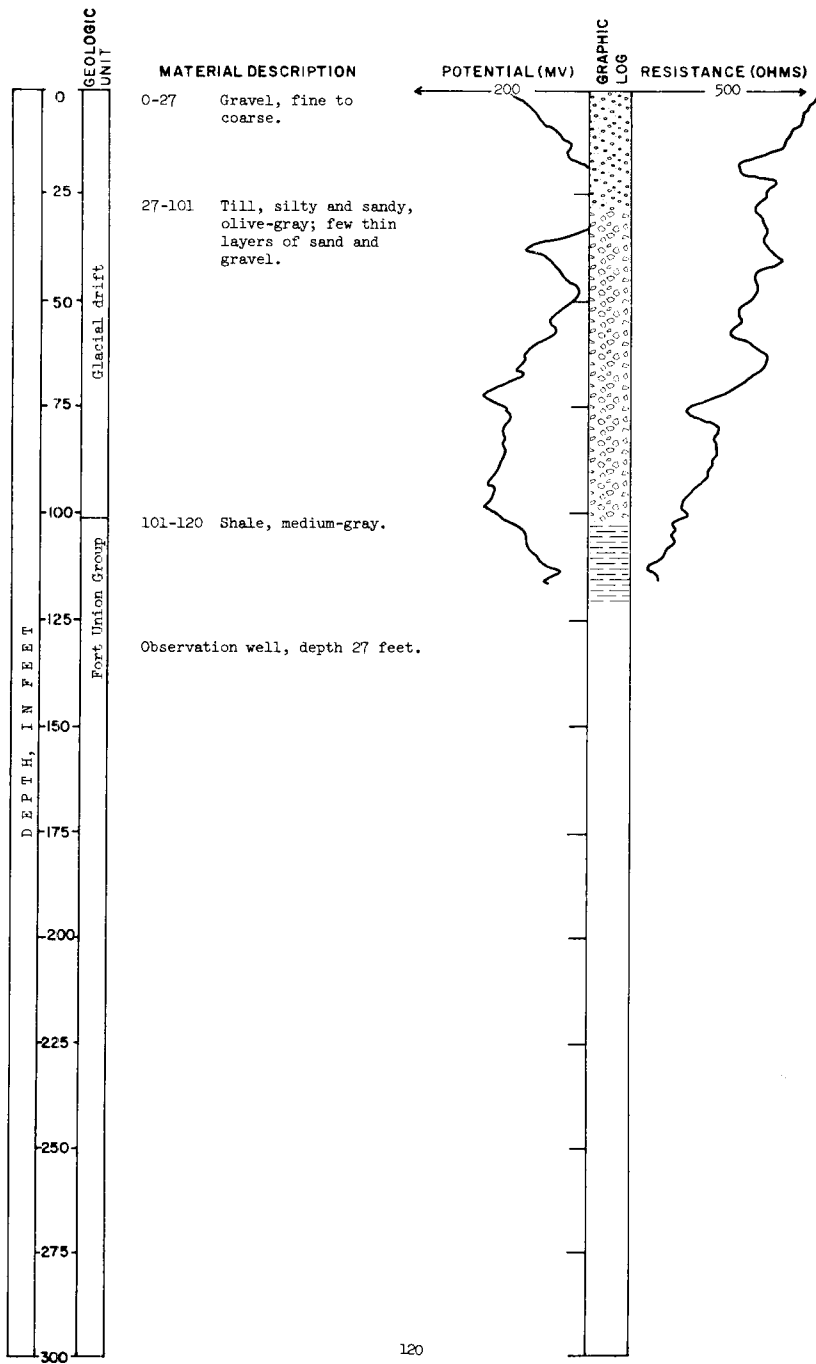
LOCATION: Ward County  
154-86-28ada

TEST HOLE 3208

DATE DRILLED: May 21, 1965

ELEVATION:

DEPTH: 120 feet



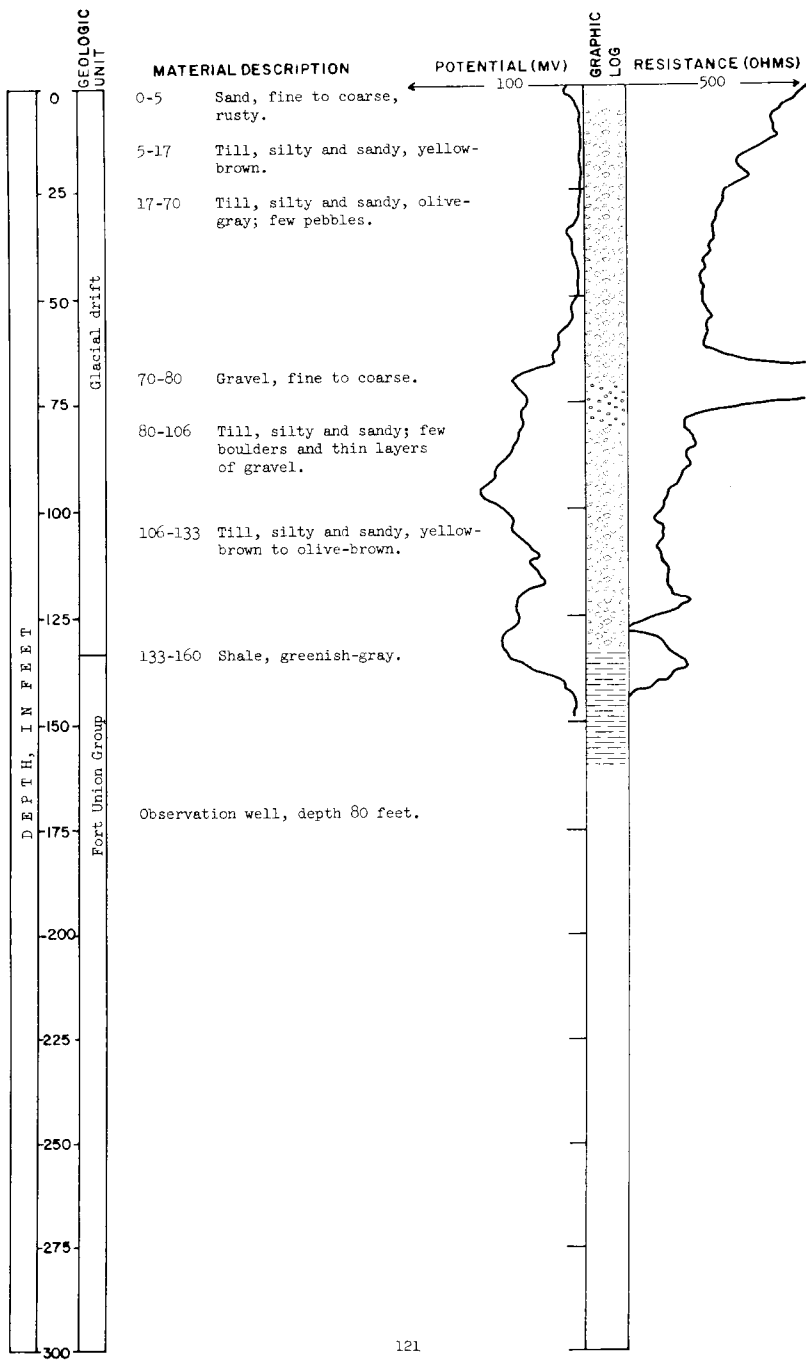
LOCATION: Ward County  
154-87-14ddd

TEST HOLE 3209

DATE DRILLED: May 22, 1965

ELEVATION:

DEPTH: 160 feet



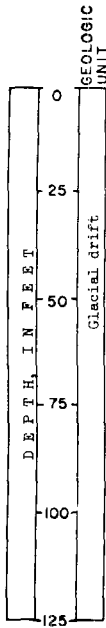
LOCATION: Ward County  
154-87-33ad

TEST HOLE  
U.S. Air Force

ELEVATION: 2,116 feet  
above sea level

DATE DRILLED: 1961

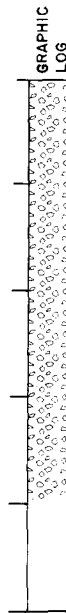
DEPTH: 100 feet



**MATERIAL DESCRIPTION**

0-19 Till, silty and sandy, brown-gray.

19-100 Till, silty and sandy, dark-gray.



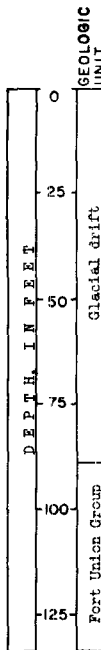
LOCATION: Ward County  
155-81-13aaa

TEST HOLE  
U.S. Geol. Survey<sup>1/</sup>

ELEVATION: 1,574 feet  
above sea level

DATE DRILLED: August 2, 1947

DEPTH: 106 feet



**MATERIAL DESCRIPTION**

0-1 Soil.

1-6 Silt, fine, and sandy clay.

6-27 Clay, yellow, with some gravel.

27-36 Sand and gravel.

36-43 Clay, sandy, gray.

43-87 Sand, coarse, and gravel, coarse.

87-89 Boulder, granite.

89-106 Clay, gray.

<sup>1/</sup> From LaRocque and others, 1963.

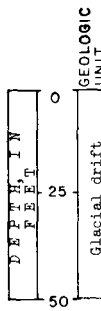


LOCATION: Ward County U.S. Bureau of Reclamation  
155-81-15ddc test hole

DATE DRILLED: August 29, 1955

ELEVATION: 1,580 feet  
above sea level

DEPTH: 40 feet



**MATERIAL DESCRIPTION**

0-20	Clay, sandy, brown.
20-40	Clay, sandy, gray.

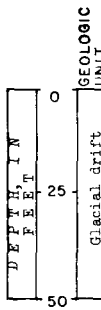


LOCATION: Ward County U.S. Bureau of Reclamation  
155-81-22aaa test hole

DATE DRILLED: August 29, 1955

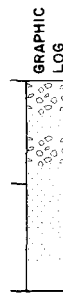
ELEVATION: 1,573 feet  
above sea level

DEPTH: 40 feet



**MATERIAL DESCRIPTION**

0-6.5	Clay, silty and sandy, brown.
6.5-12	Sand, coarse, gravelly and clayey.
12-19	Clay, sandy, gray.
19-40	Sand, fine, silty.

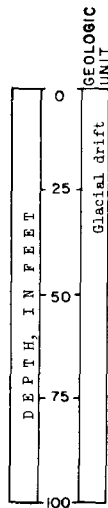


LOCATION: Ward County U.S. Bureau of Reclamation  
155-81-23daa test hole

DATE DRILLED: August 26, 1955

ELEVATION: 1,564 feet  
above sea level

DEPTH: 40 feet



**MATERIAL DESCRIPTION**

0-11	Sand, coarse, gravelly and clayey.
11-40	Clay, sandy, gray.

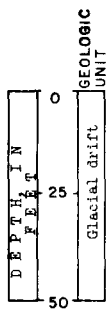


LOCATION: Ward County U.S. Bureau of Reclamation  
 155-81-23dad test hole

ELEVATION: 1,564 feet  
 above sea level

DATE DRILLED: August 25, 1955

DEPTH: 40 feet



**MATERIAL DESCRIPTION**

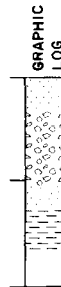
0-8 Sand, very fine to coarse.

8-17 Clay, sandy and gravelly, brown.

17-26 Clay, sandy and gravelly, gray.

26-30 Sand, coarse.

30-40 Clay, silty, gray.

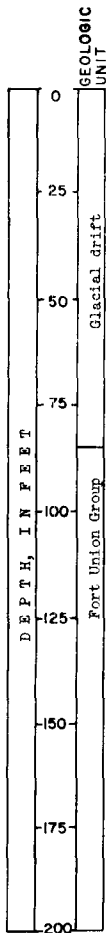


LOCATION: Ward County TEST HOLE 1394  
 155-82-15bbb

ELEVATION: 1,643 feet  
 above sea level

DATE DRILLED: 1958

DEPTH: 94.5 feet



**MATERIAL DESCRIPTION**

0-22 Till, yellow-brown; fine pebbles.

22-32 Till, sandy, dark-gray.

32-85 Till, sandy and gravelly, gray.

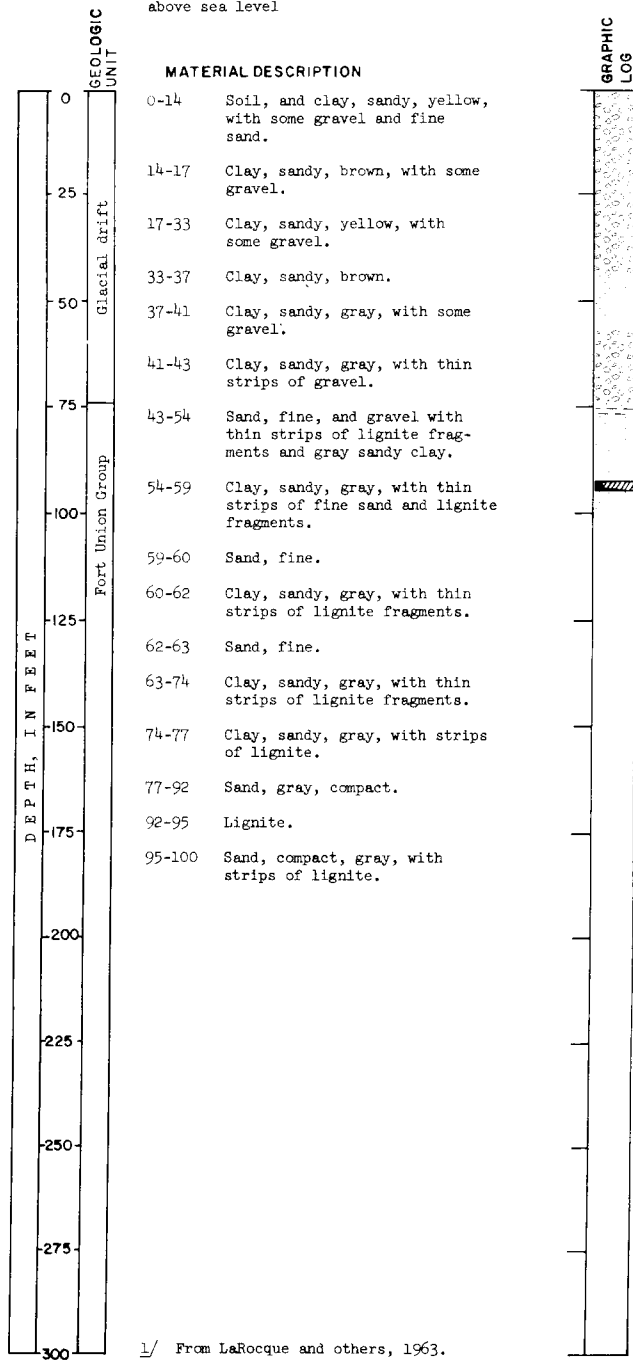
85-94.5 Clay, sandy, gray.



LOCATION: Ward County  
 155-82-19aaa  
 ELEVATION: 1,636 feet  
 above sea level

TEST HOLE  
 U.S. Geol. Survey<sup>1/</sup>

DATE DRILLED: August 2, 1947  
 DEPTH: 100 feet



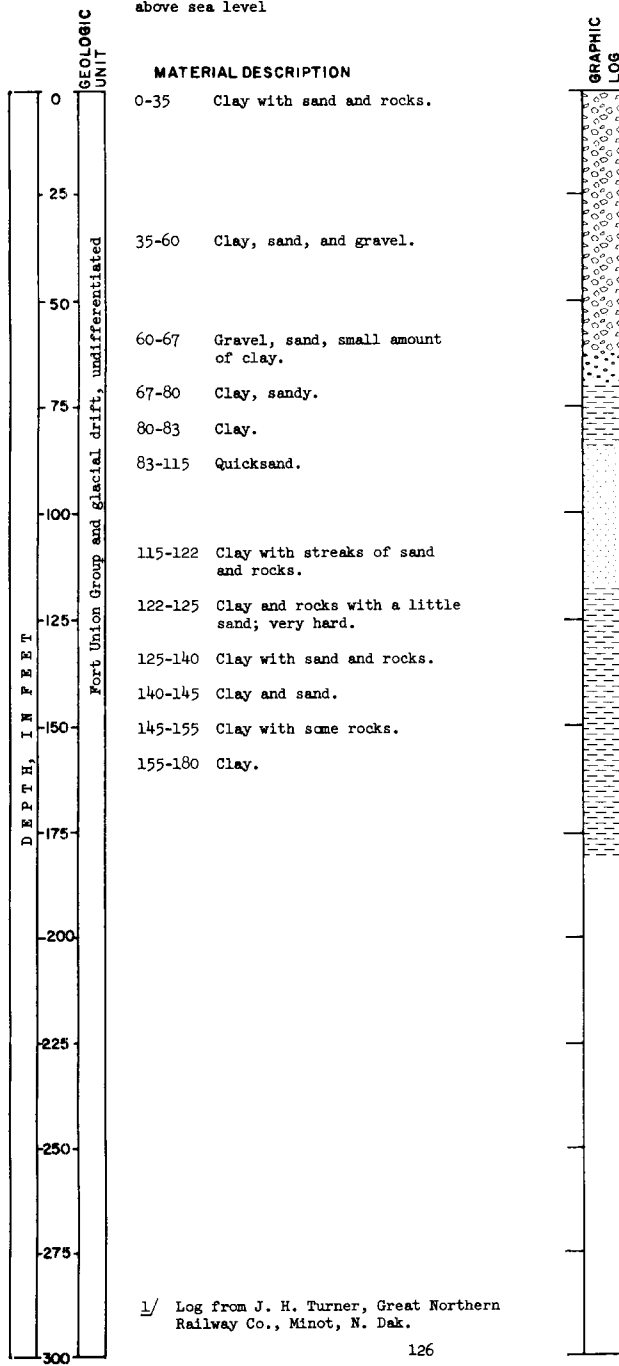
<sup>1/</sup> From LaRocque and others, 1963.  
 125



LOCATION: Ward County Great Northern Railway Co.  
 155-82-19bb test hole

ELEVATION: 1,555 feet  
 above sea level

DATE DRILLED:  
 DEPTH: 180 feet



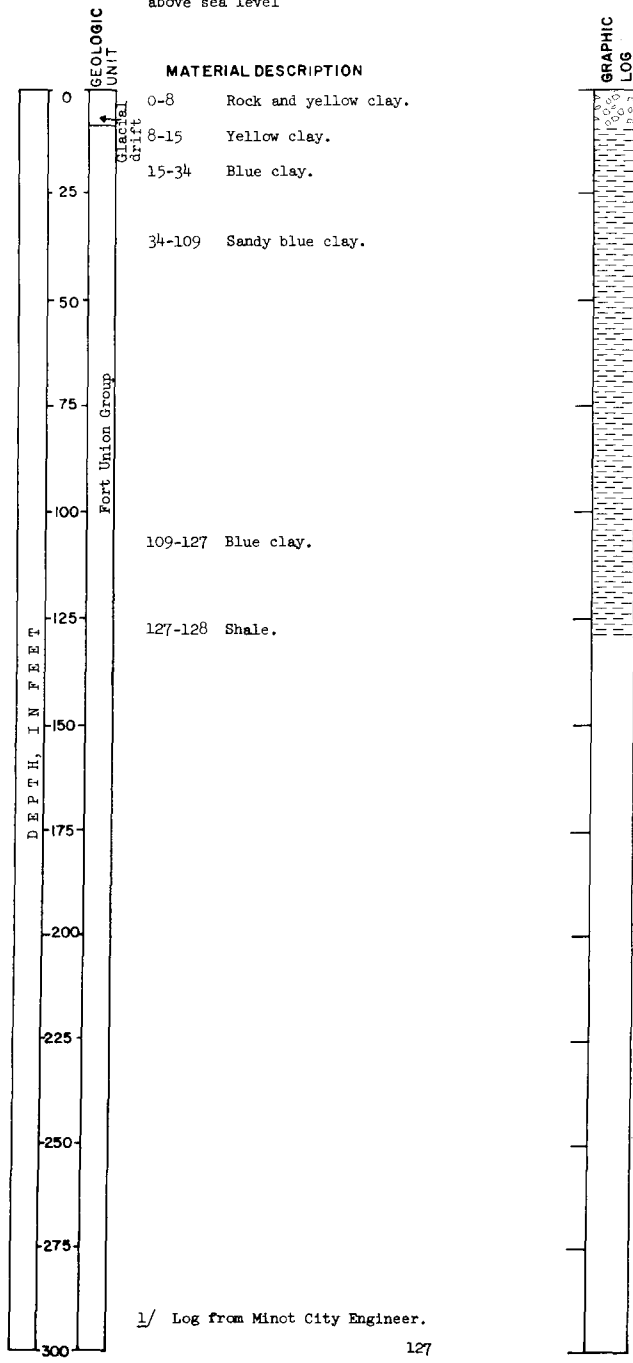
LOCATION: Ward County  
 155-82-20cc1

ELEVATION: 1,558 feet  
 above sea level

City of Minot  
 test hole<sub>1</sub>

DATE DRILLED: 1952

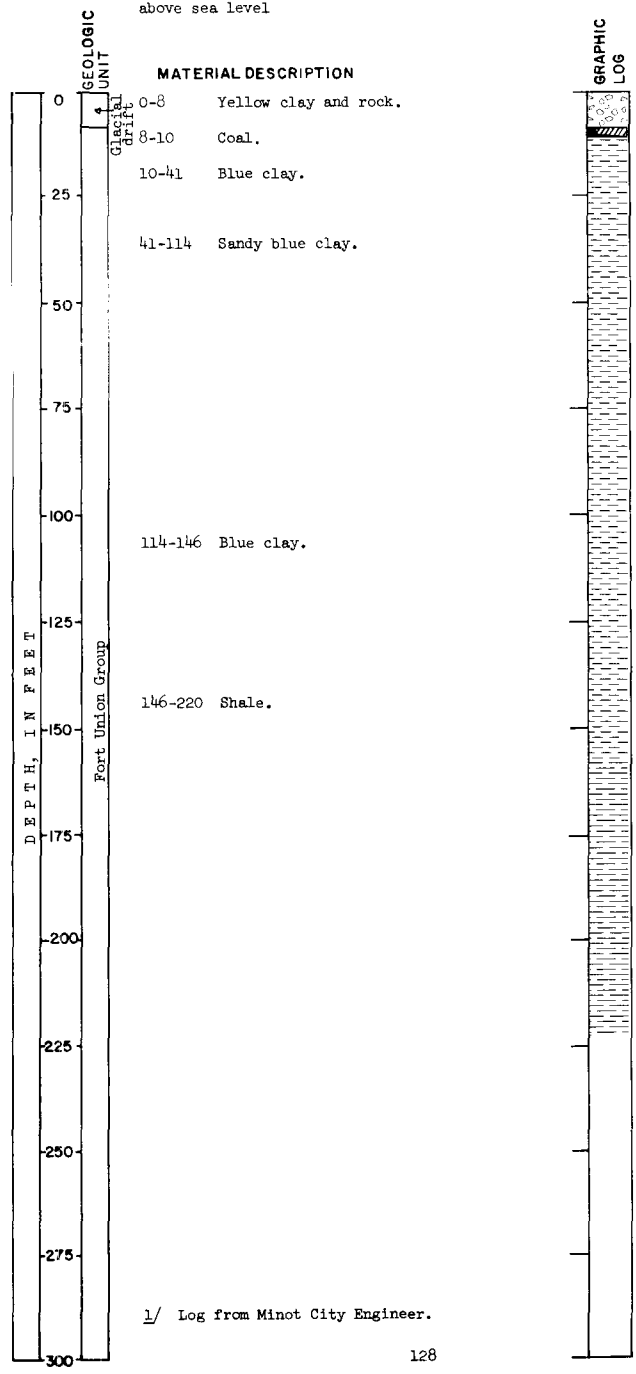
DEPTH: 128 feet



LOCATION: Ward County City of Minot  
 155-82-20cc2 test hole<sup>1/</sup>

ELEVATION: 1,560 feet  
 above sea level

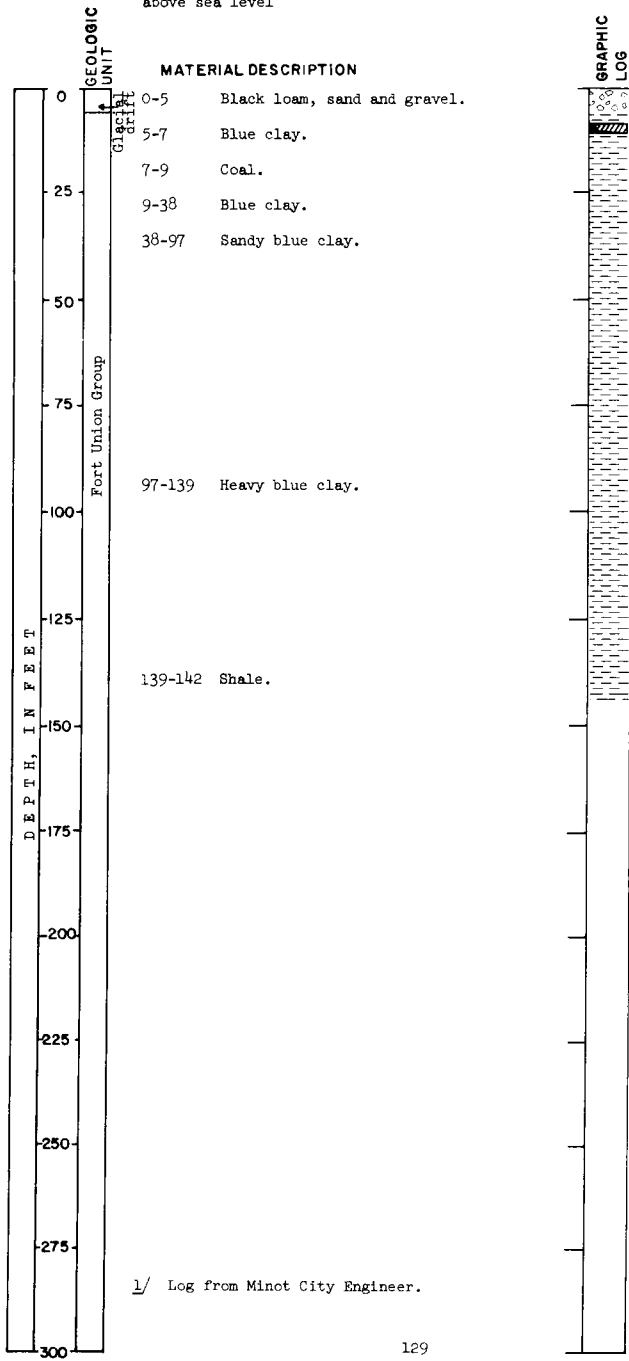
DATE DRILLED: 1952  
 DEPTH: 220 feet



LOCATION: Ward County  
 155-82-20cc3 City of Minot  
 test hole

ELEVATION: 1,549 feet  
 above sea level

DATE DRILLED: 1952  
 DEPTH: 142 feet

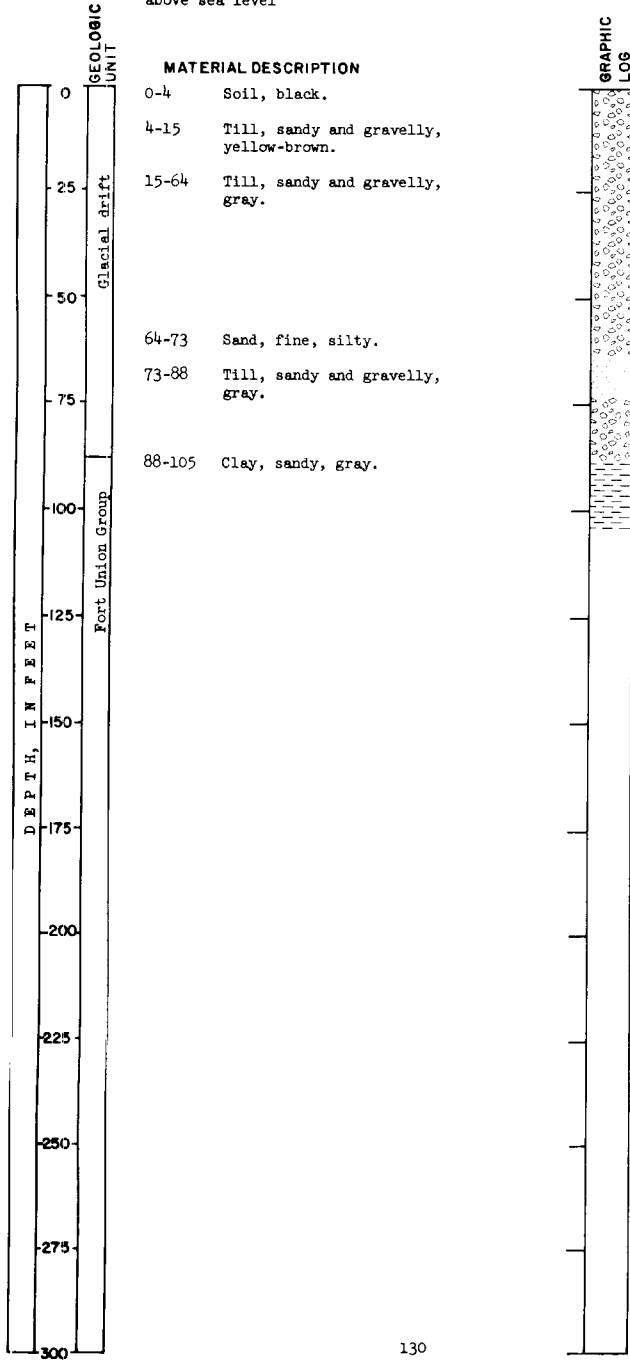


LOCATION: Ward County  
 155-82-22ccb  
 ELEVATION: 1,628 feet  
 above sea level

TEST HOLE 1393

DATE DRILLED: 1958

DEPTH: 105 feet

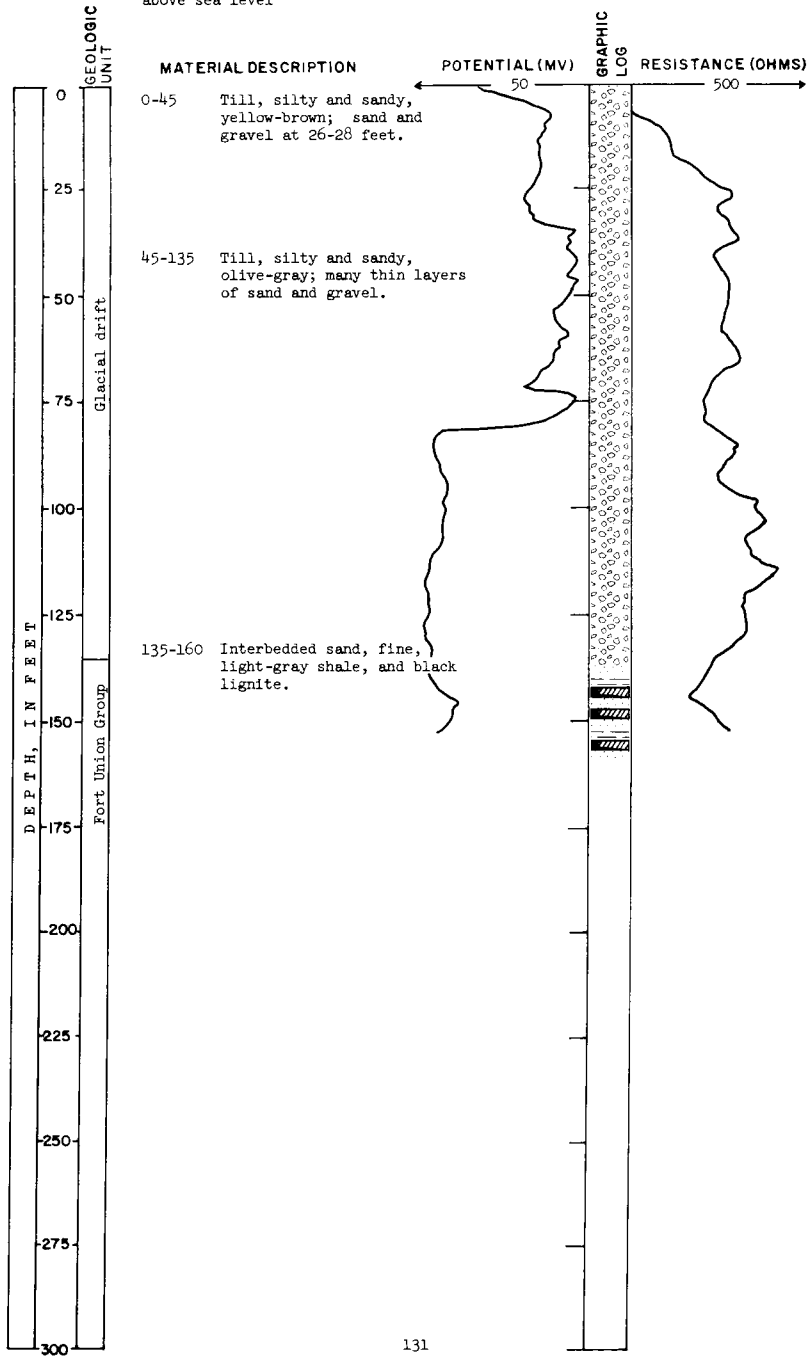


LOCATION: Ward County  
155-83-1cccd  
ELEVATION: 1,703 feet  
above sea level

TEST HOLE 3238

DATE DRILLED: July 27, 1965

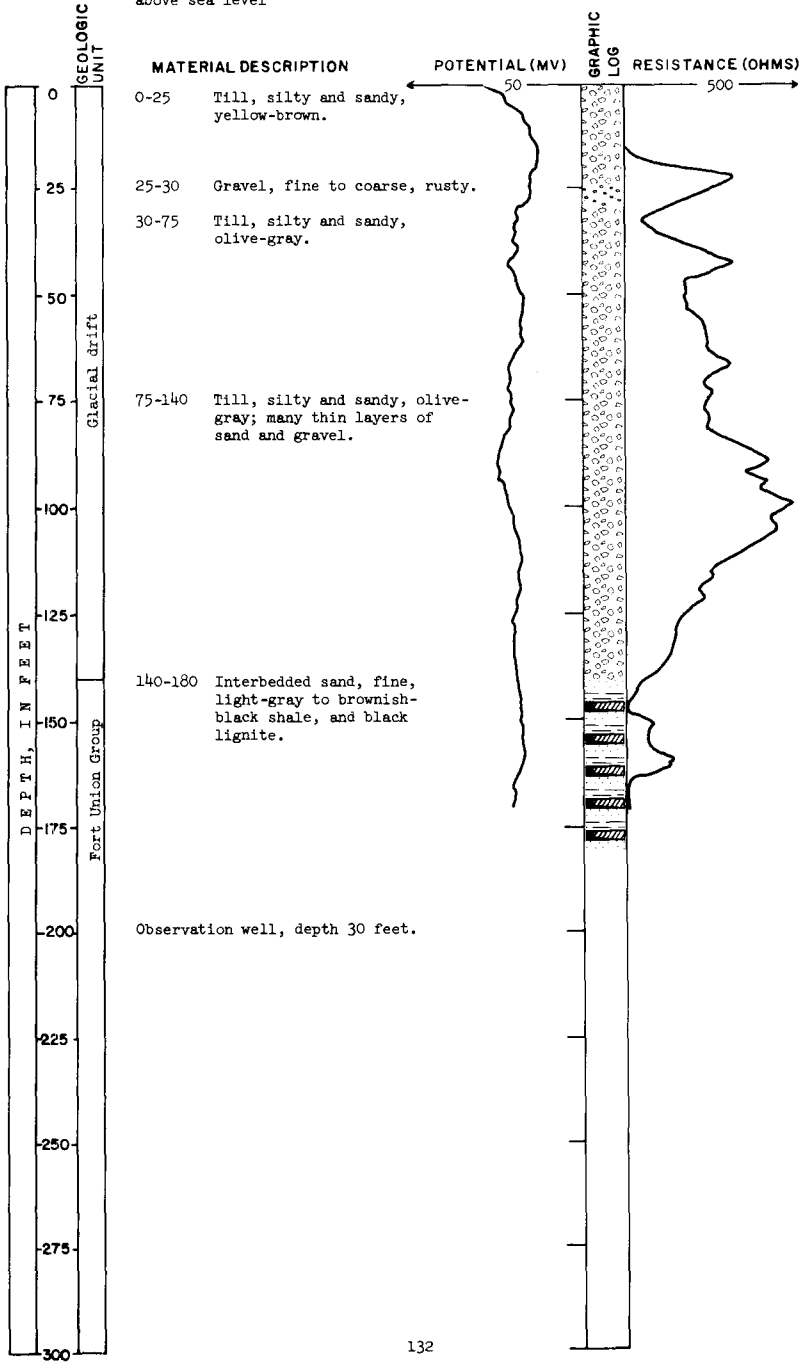
DEPTH: 160 feet



LOCATION: Ward County  
 155-83-lccc  
 ELEVATION: 1,716 feet  
 above sea level

TEST HOLE 3237

DATE DRILLED: July 26, 1965  
 DEPTH: 180 feet



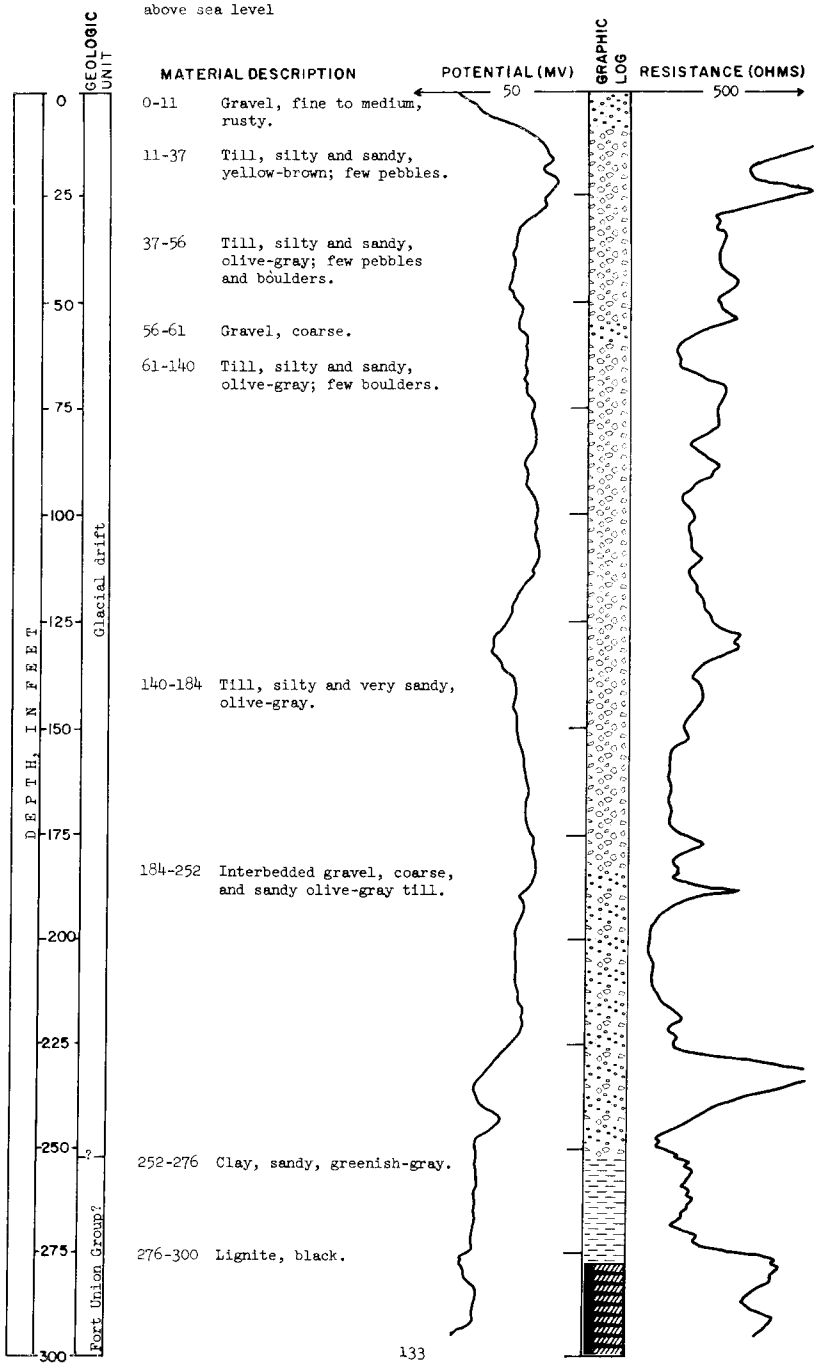
LOCATION: Ward County  
155-83-3dda

ELEVATION: 1,747 feet  
above sea level

TEST HOLE 3236A

DATE DRILLED: July 23, 1965

DEPTH: 300 feet





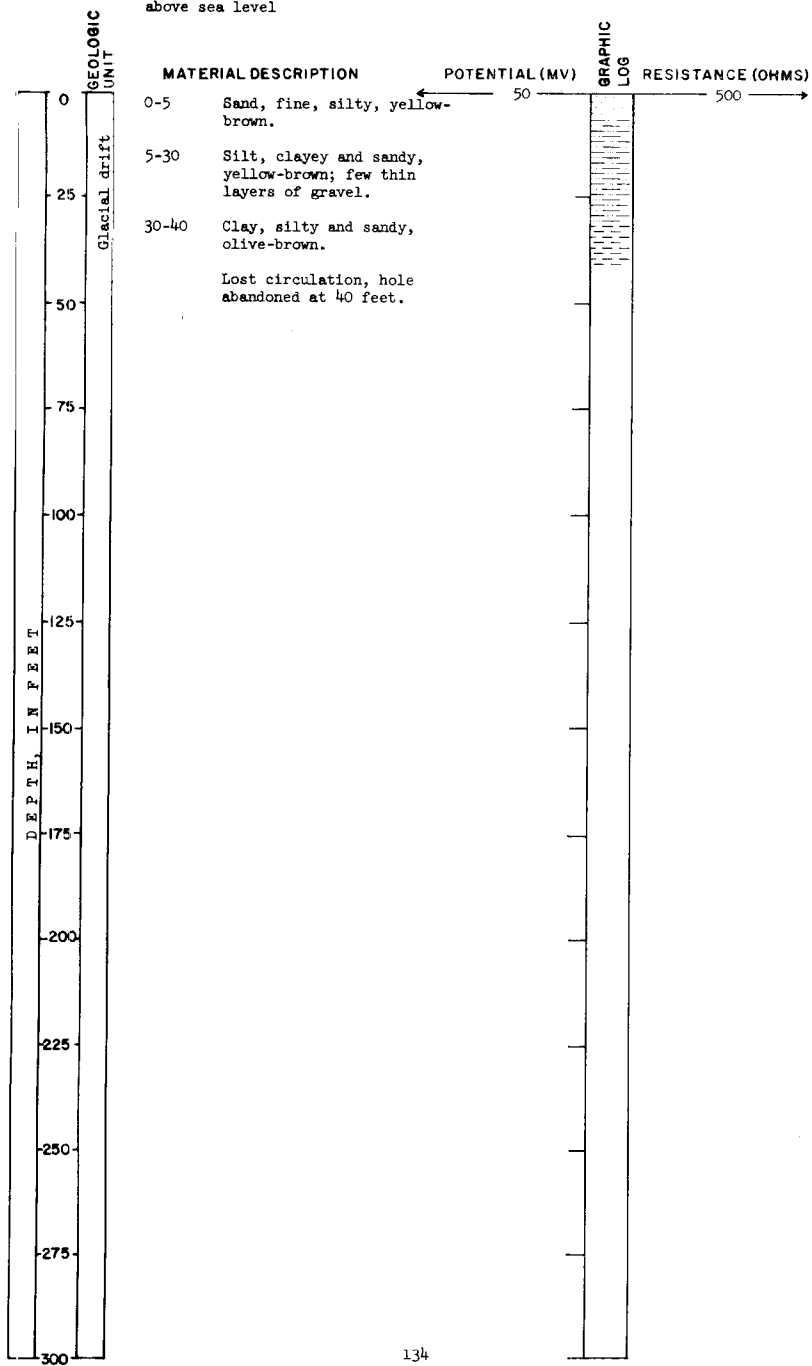
LOCATION: Ward County  
155-83-3ddd

ELEVATION: 1,733 feet  
above sea level

TEST HOLE 3236

DATE DRILLED: July 23, 1965

DEPTH: 40 feet



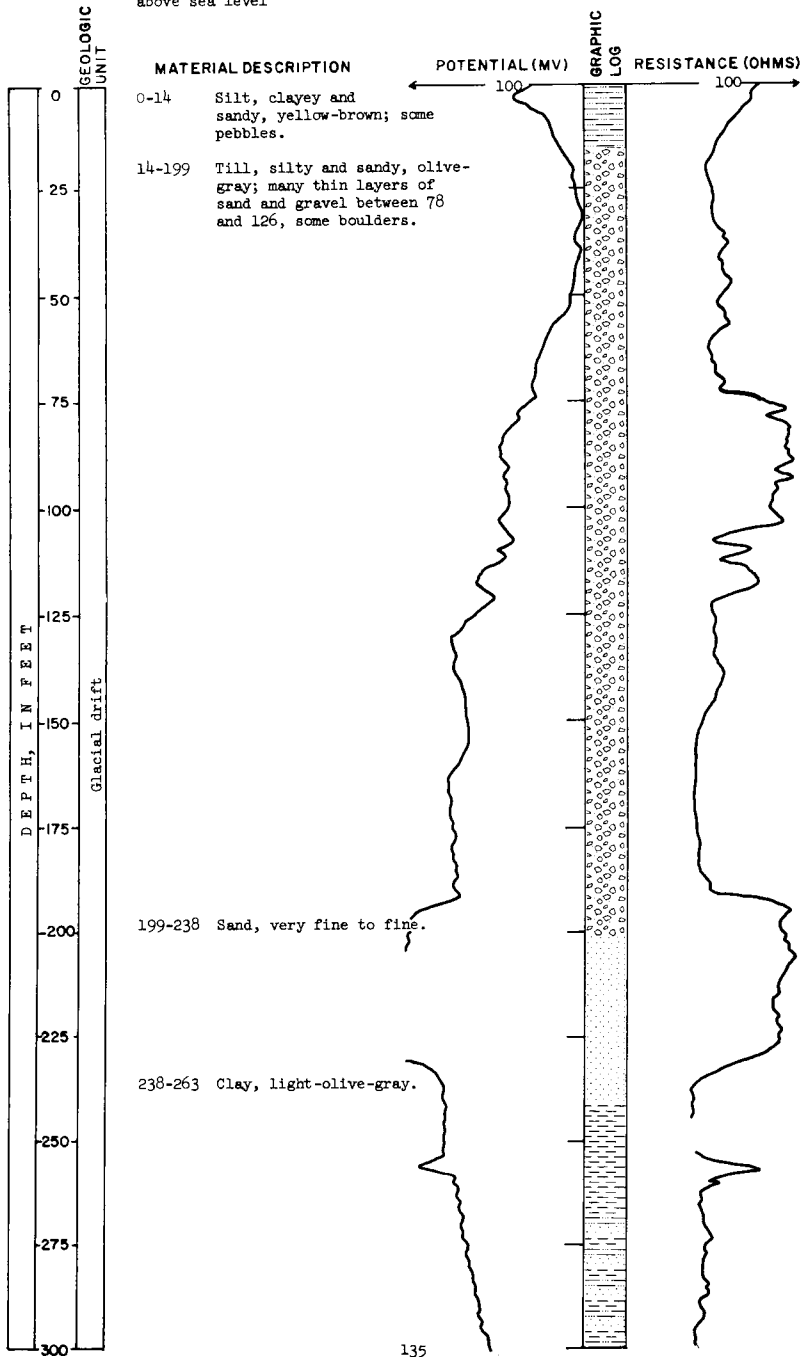
LOCATION: Ward County  
155-83-4aaa

ELEVATION: 1,748 feet  
above sea level

TEST HOLE 3327

DATE DRILLED: June 1, 1966

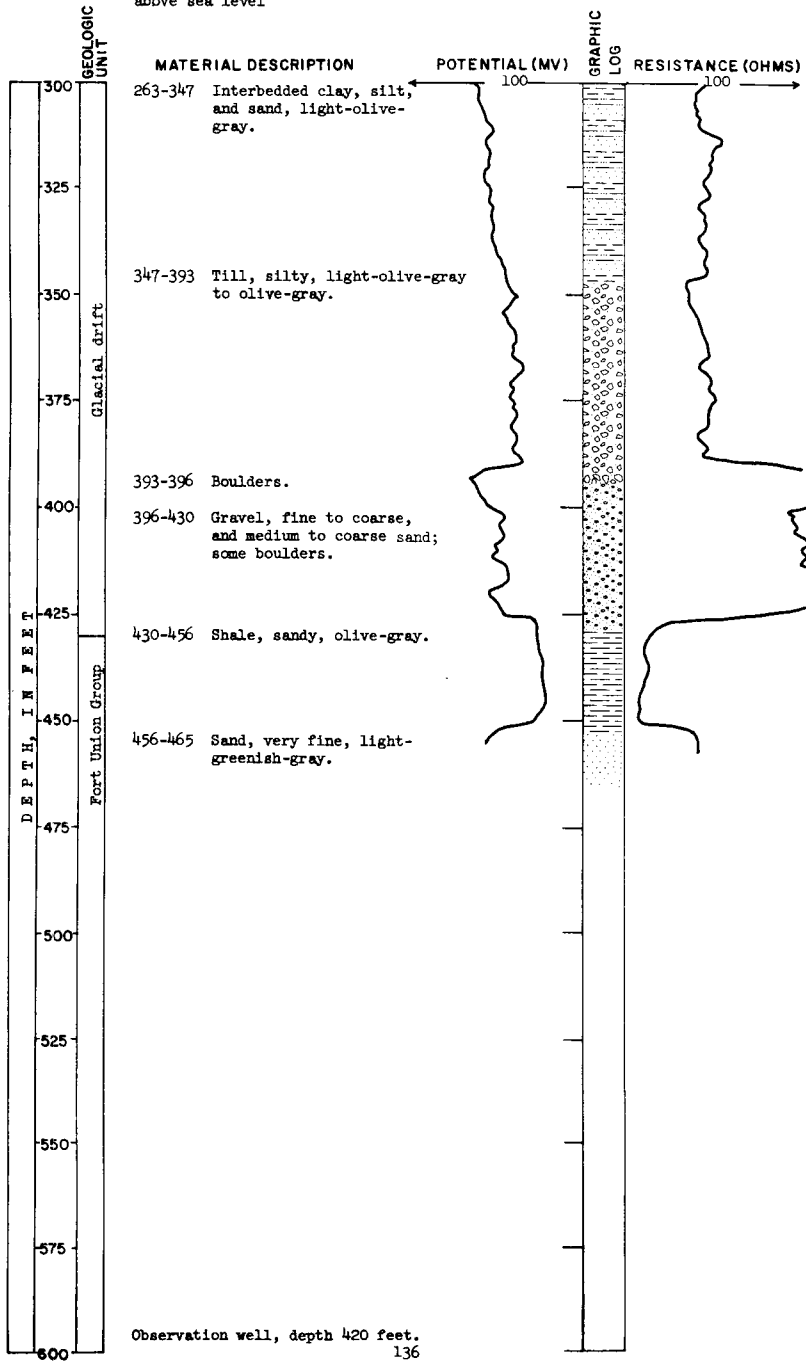
DEPTH: 465 feet



LOCATION: Ward County  
 155-83-4aaa  
 ELEVATION: 1,748 feet  
 above sea level

TEST HOLE 3327  
 (Continued)

DATE DRILLED: June 1, 1966  
 DEPTH: 465 feet



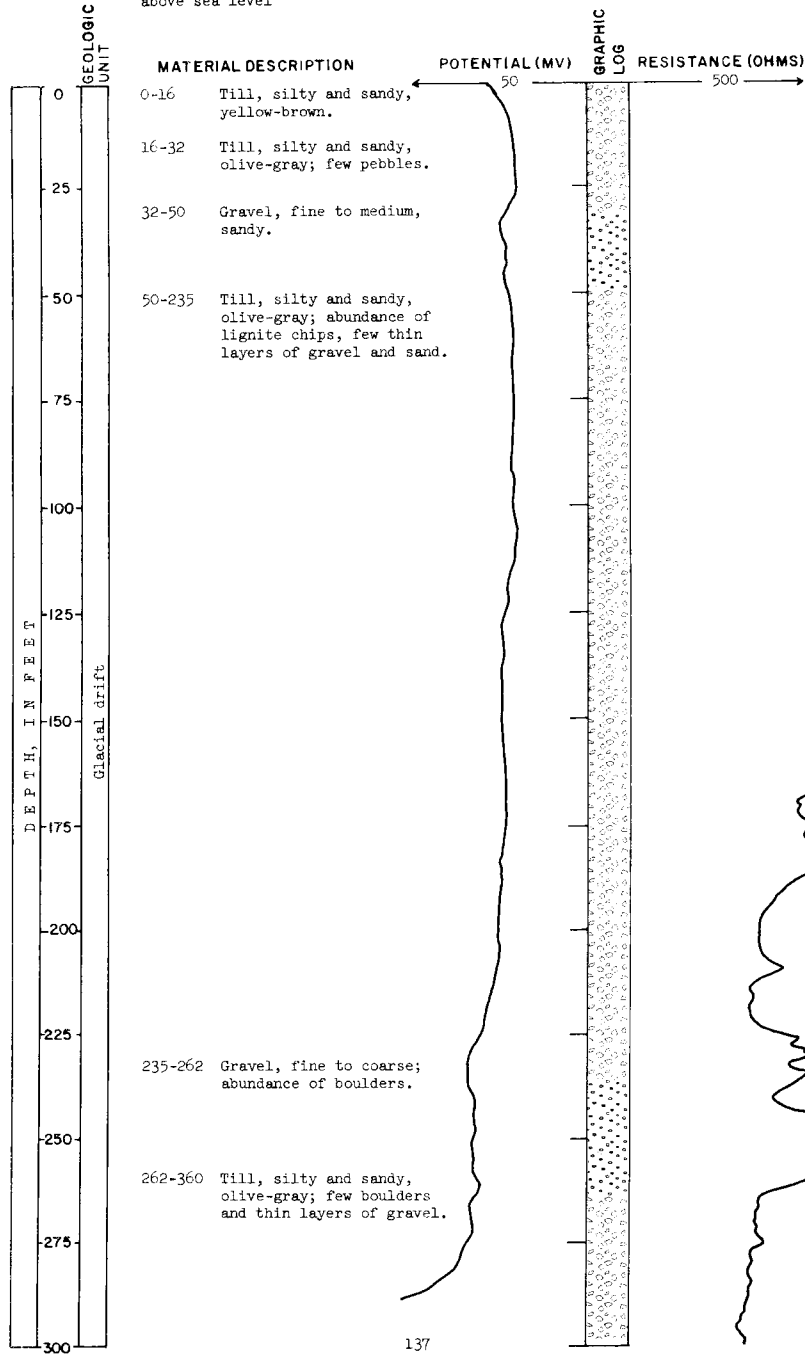
LOCATION: Ward County  
155-83-9aaa

ELEVATION: 1,793 feet  
above sea level

TEST HOLE 2367

DATE DRILLED: July 16, 1965

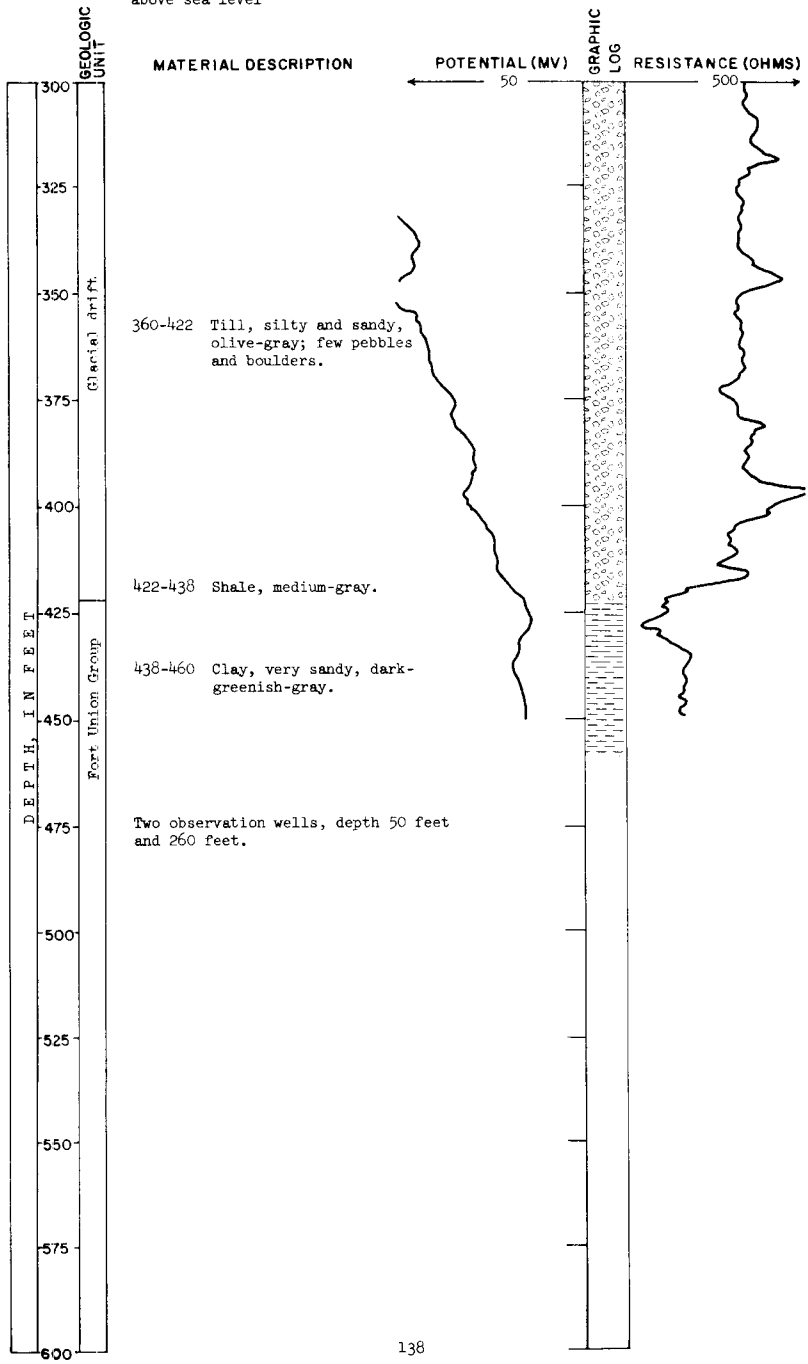
DEPTH: 460 feet



LOCATION: Ward County TEST HOLE 2367  
 155-83-9aaa (Continued)

ELEVATION: 1,793 feet  
 above sea level

DATE DRILLED: July 16, 1965  
 DEPTH: 460 feet



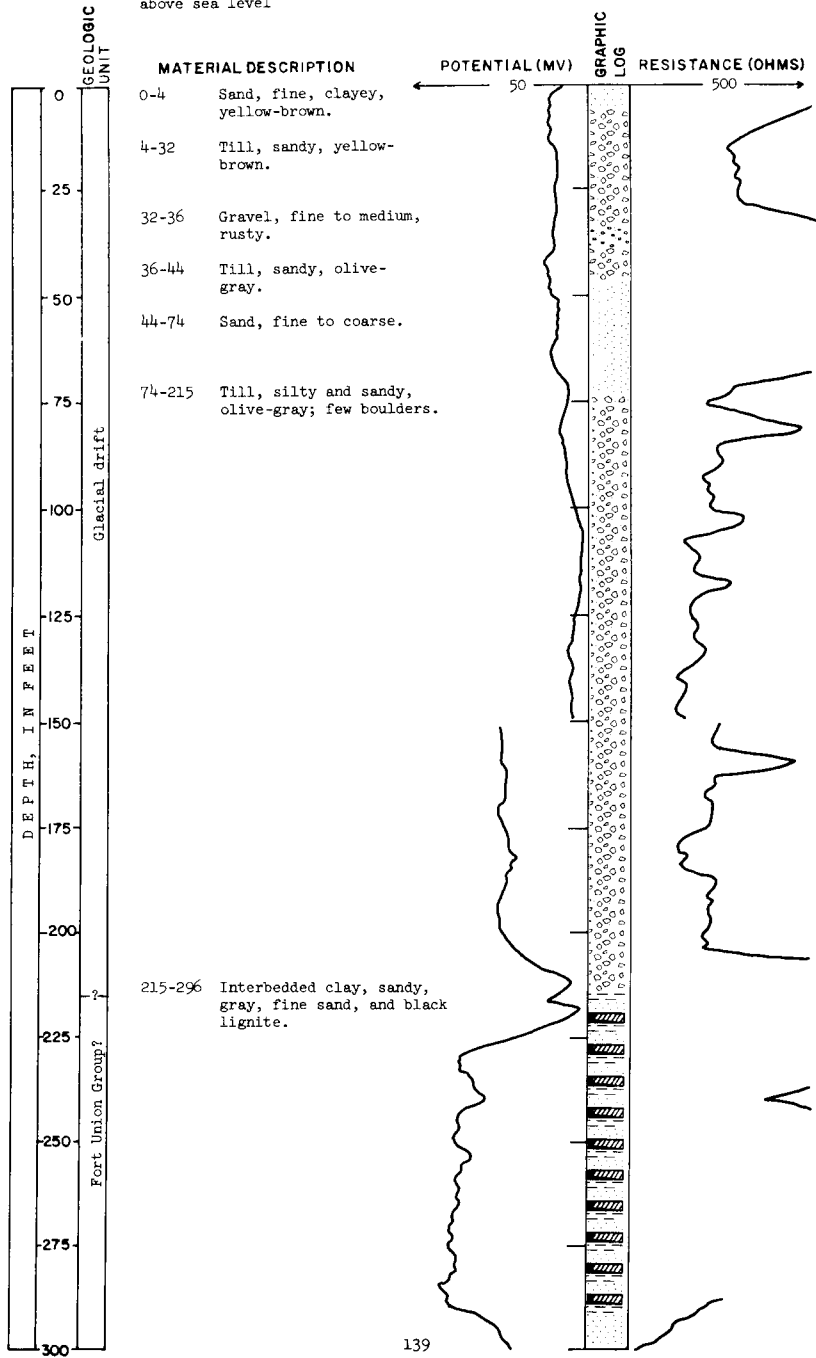
LOCATION: Ward County  
155-83-11abb

ELEVATION: 1,739 feet  
above sea level

TEST HOLE 3239

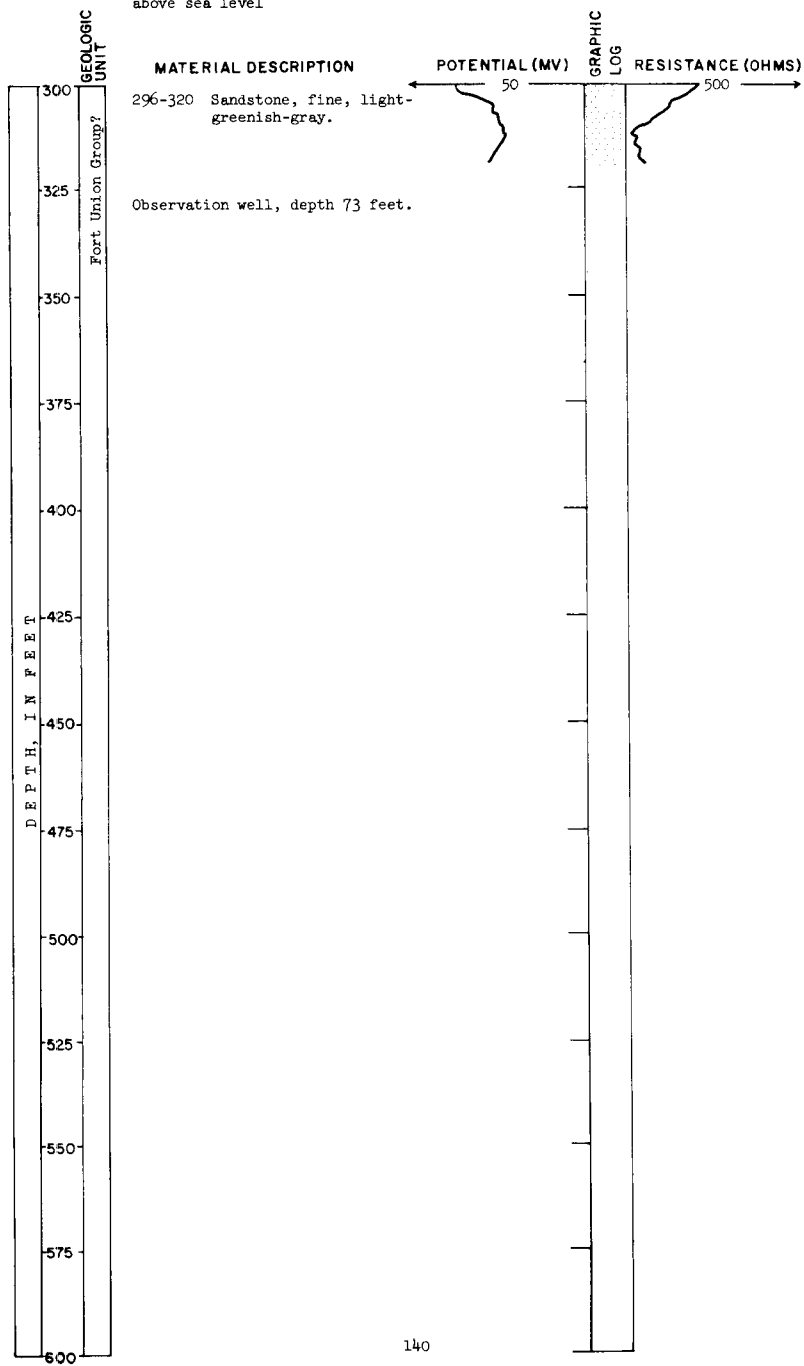
DATE DRILLED: July 27, 1965

DEPTH: 320 feet



LOCATION: Ward County 155-83-11abb  
 TEST HOLE (Continued) 3239  
 ELEVATION: 1,739 feet above sea level

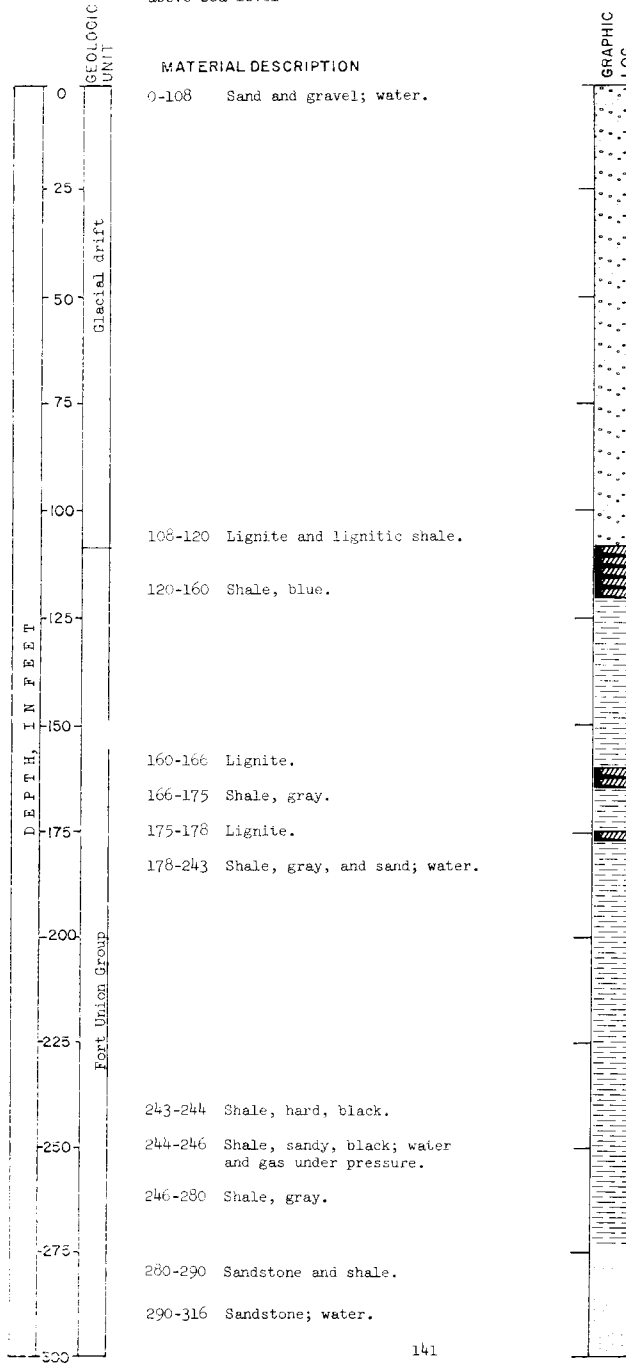
DATE DRILLED: July 27, 1965  
 DEPTH: 320 feet



LOCATION: Ward County  
 155-83-10ab U.S. Geol. Survey 1/

ELEVATION: 1,570 feet  
 above sea level

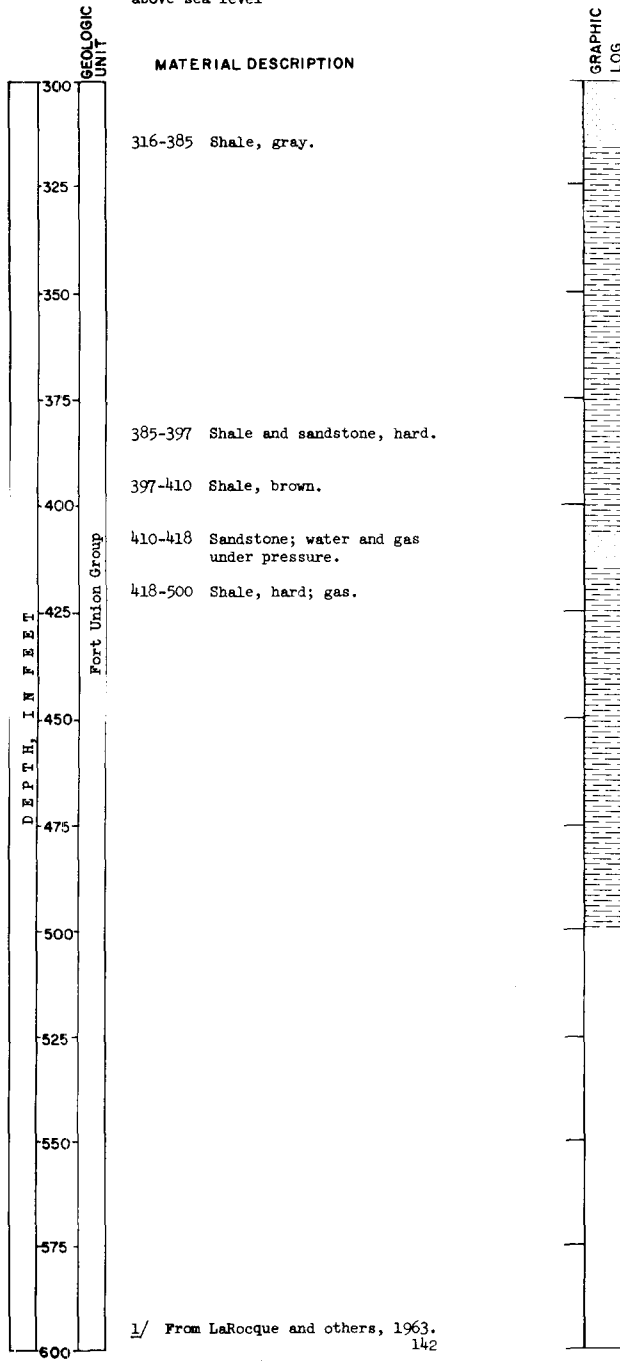
TEST HOLE  
 DATE DRILLED: 1947  
 DEPTH: 500 feet





LOCATION: Ward County U.S. Geol. Survey <sup>1/</sup>  
 155-83-18ab (Continued)  
 ELEVATION: 1,570 feet  
 above sea level

TEST HOLE  
 DATE DRILLED: 1947  
 DEPTH: 500 feet



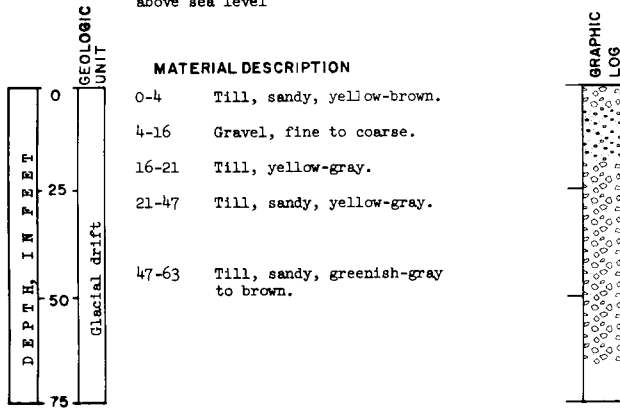
LOCATION: Ward County  
155-84-1bcc

ELEVATION: 1,578 feet  
above sea level

TEST HOLE 1405

DATE DRILLED: 1958

DEPTH: 63 feet



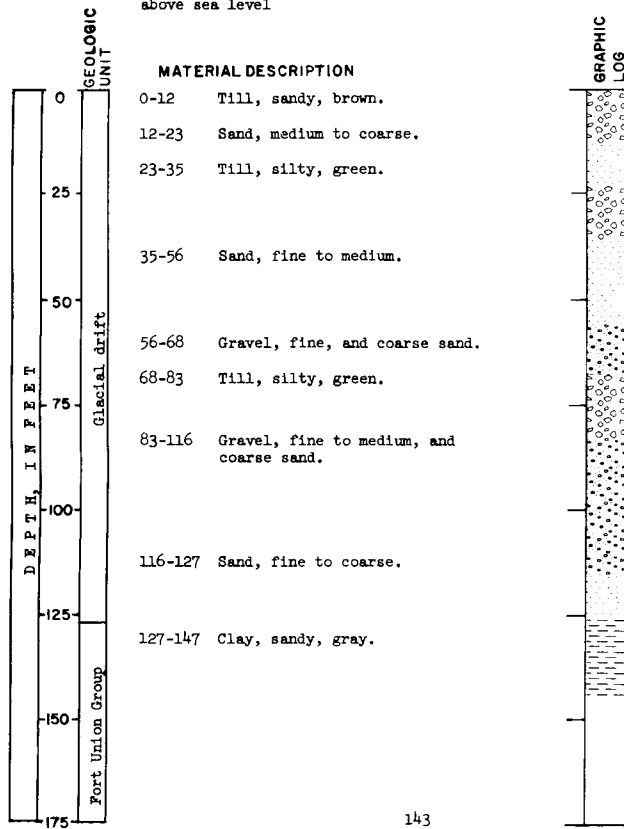
LOCATION: Ward County  
155-84-1bcd

ELEVATION: 1,578 feet  
above sea level

TEST HOLE 1404

DATE DRILLED: 1958

DEPTH: 147 feet



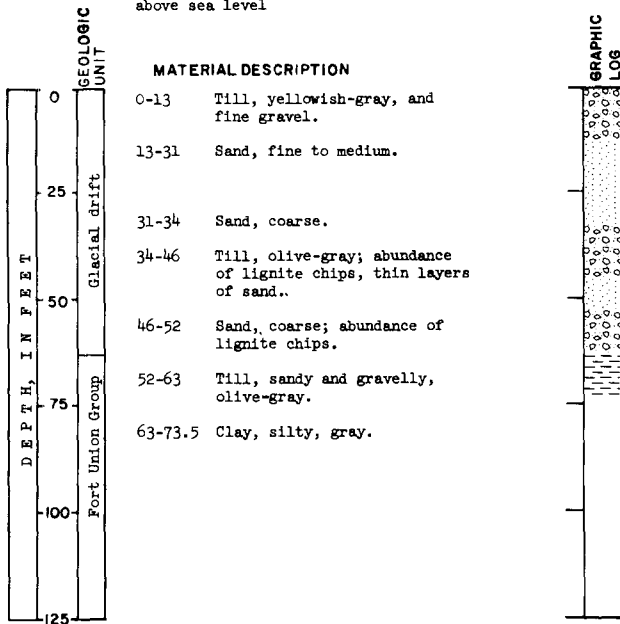
LOCATION: Ward County  
155-84-1bdd1

TEST HOLE 1403

DATE DRILLED: 1958

ELEVATION: 1,574 feet  
above sea level

DEPTH: 73.5 feet



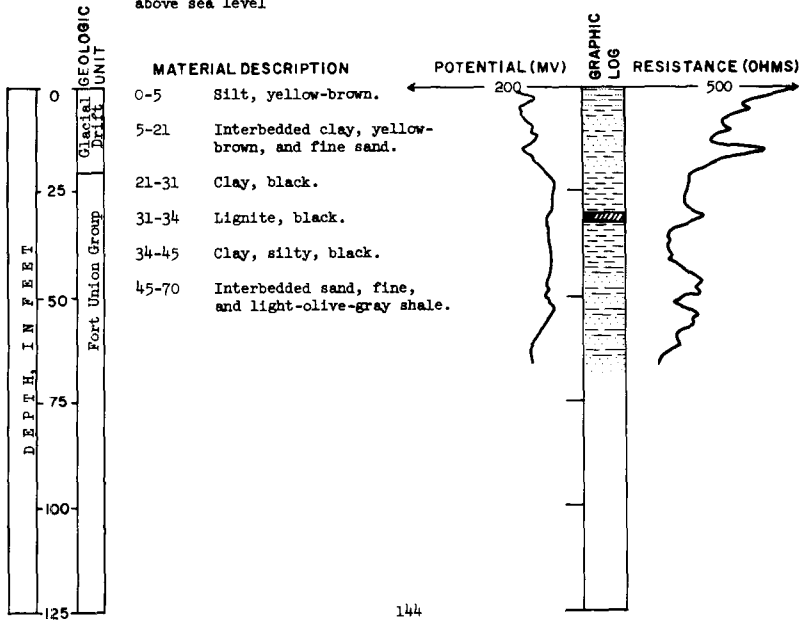
LOCATION: Ward County  
155-84-1bdd2

TEST HOLE 3329

DATE DRILLED: June 3, 1966

ELEVATION: 1,565 feet  
above sea level

DEPTH: 70 feet



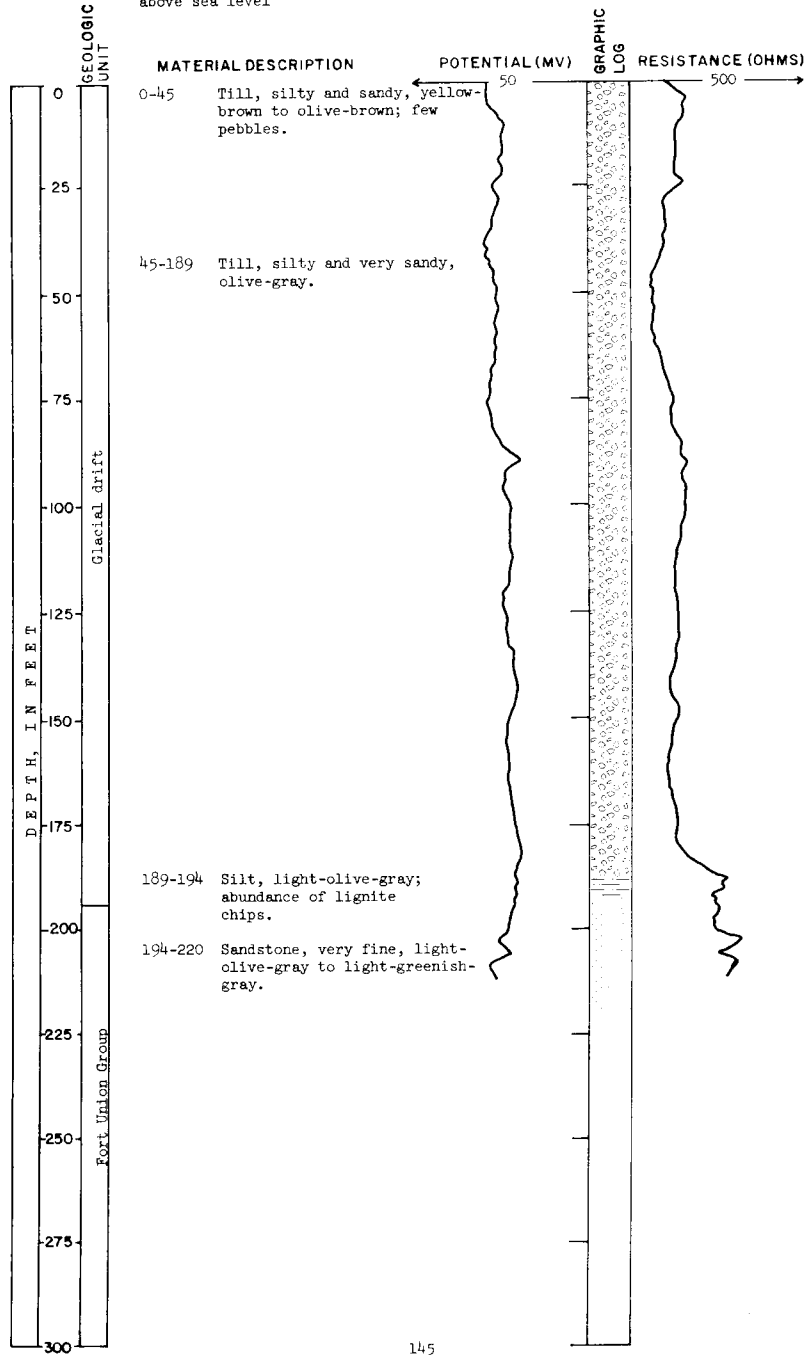
LOCATION: Ward County  
155-85-11cdd

TEST HOLE 3220

DATE DRILLED: June 4, 1965

ELEVATION: 1,941 feet  
above sea level

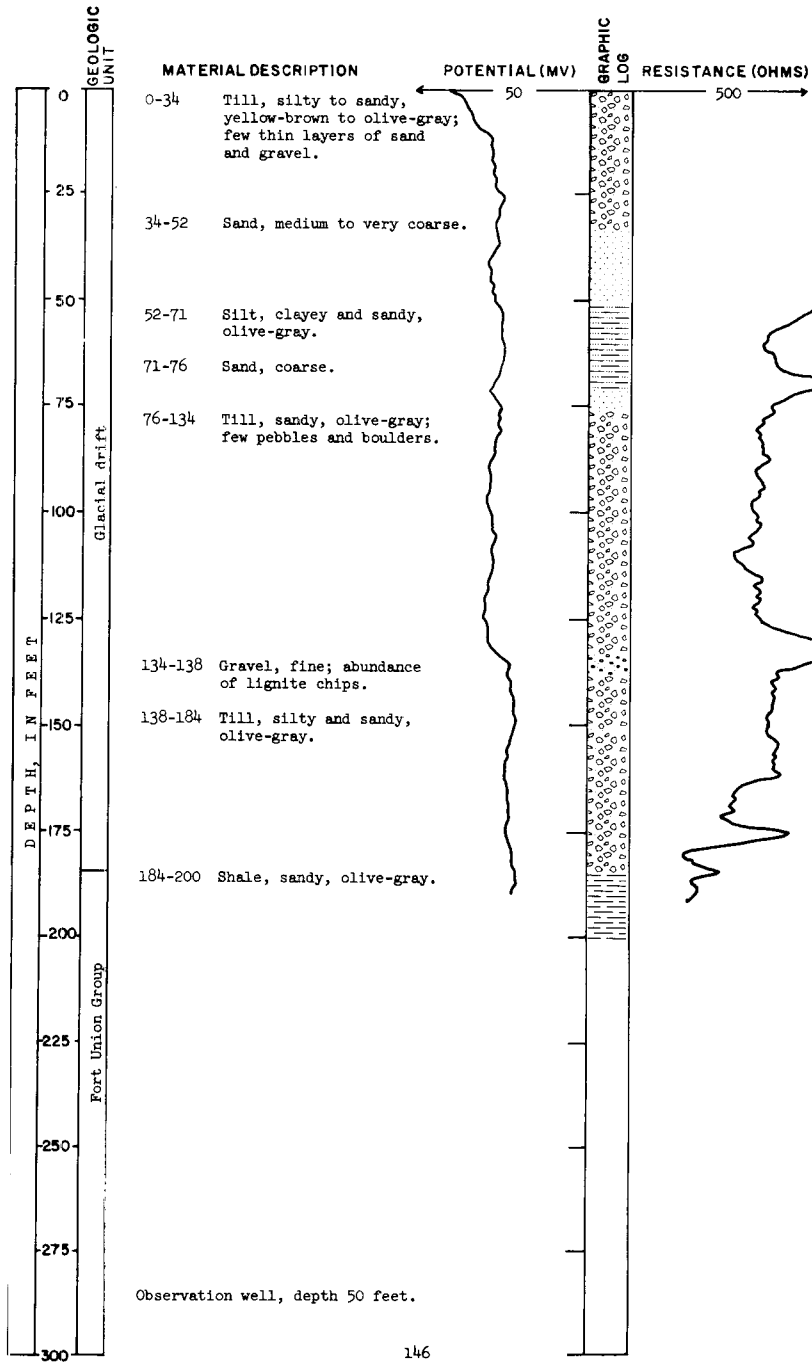
DEPTH: 220 feet



LOCATION: Ward County  
 155-86-24bbb  
 ELEVATION:

TEST HOLE 3222

DATE DRILLED: June 5, 1965  
 DEPTH: 200 feet



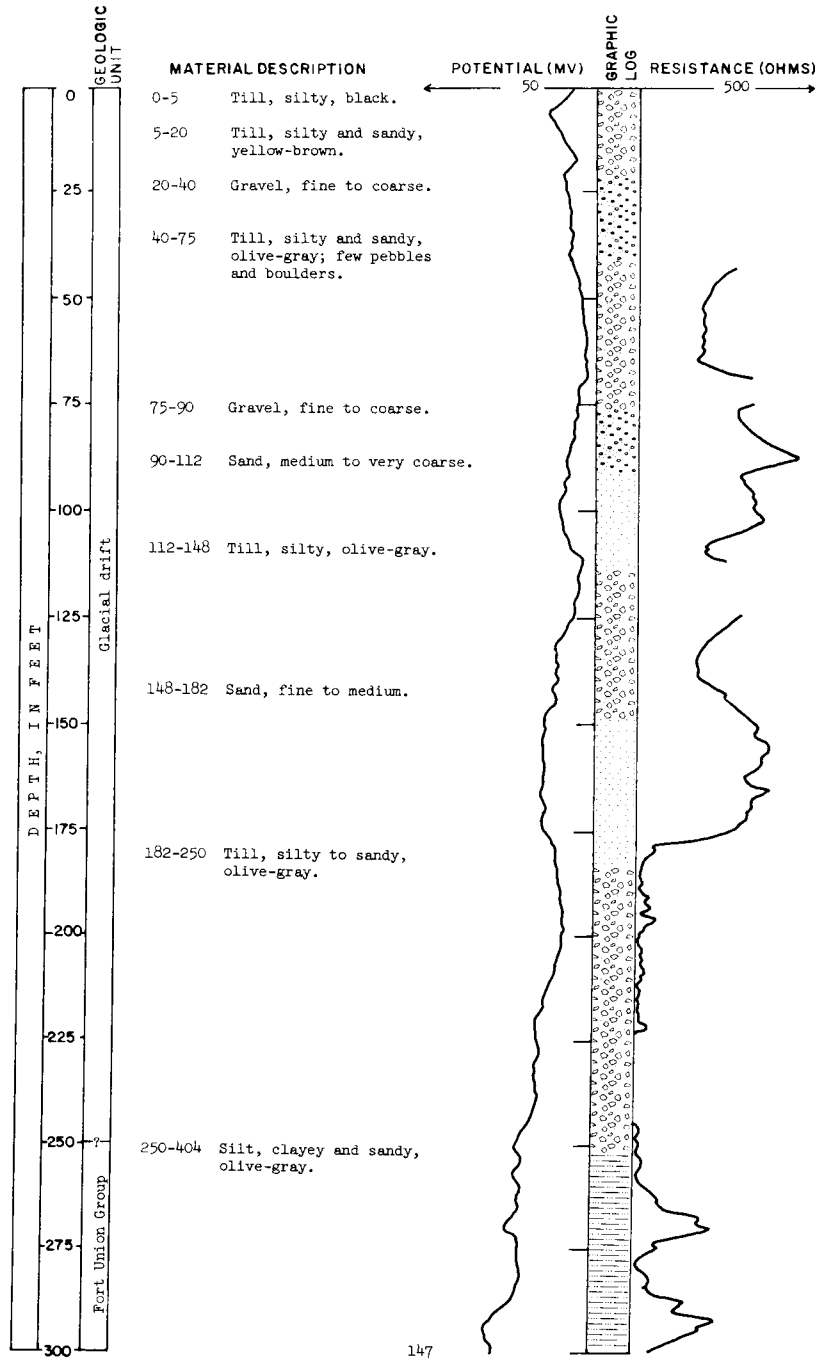
LOCATION: Ward County  
155-87-17bab

TEST HOLE 3224

DATE DRILLED: June 7, 1965

ELEVATION:

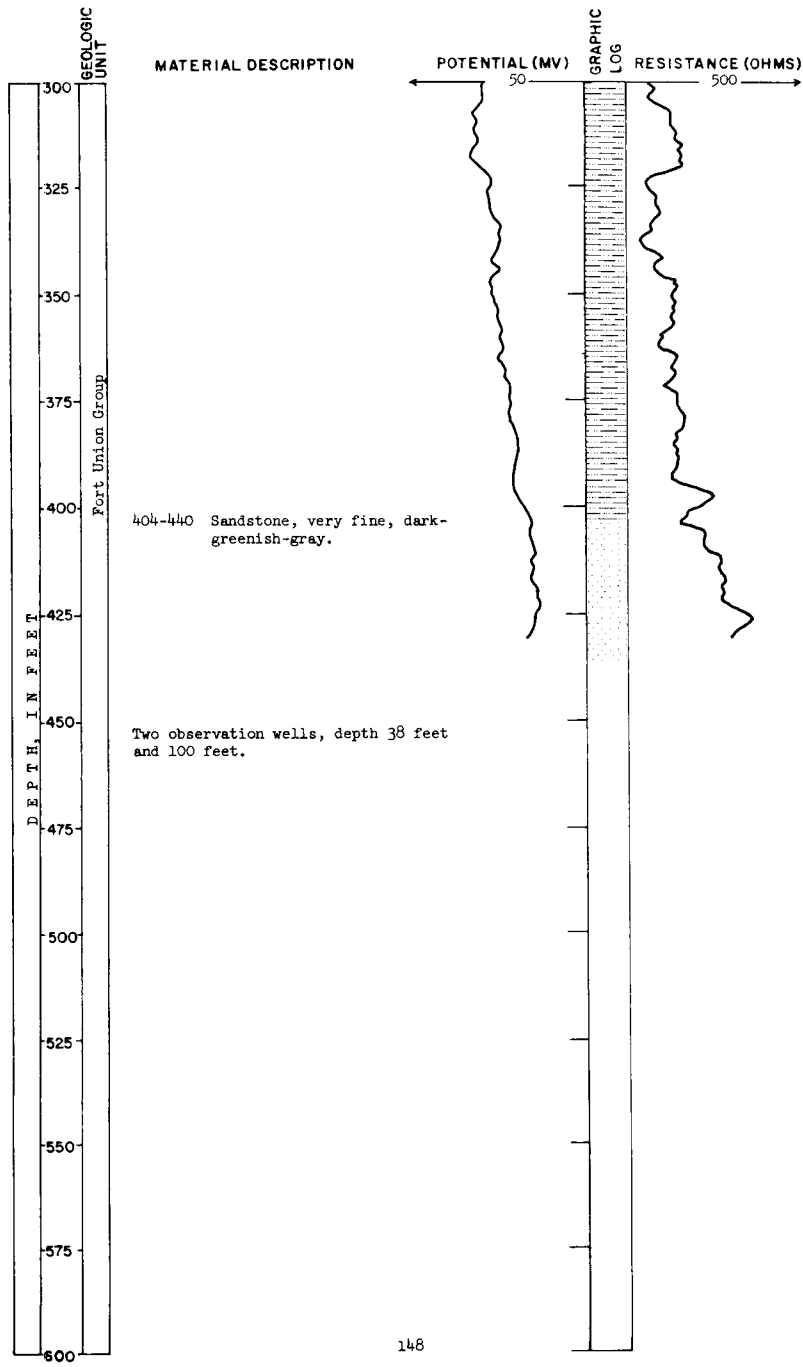
DEPTH: 440 feet



LOCATION: Ward County  
155-87-170ab  
ELEVATION:

TEST HOLE 3224  
(Continued)

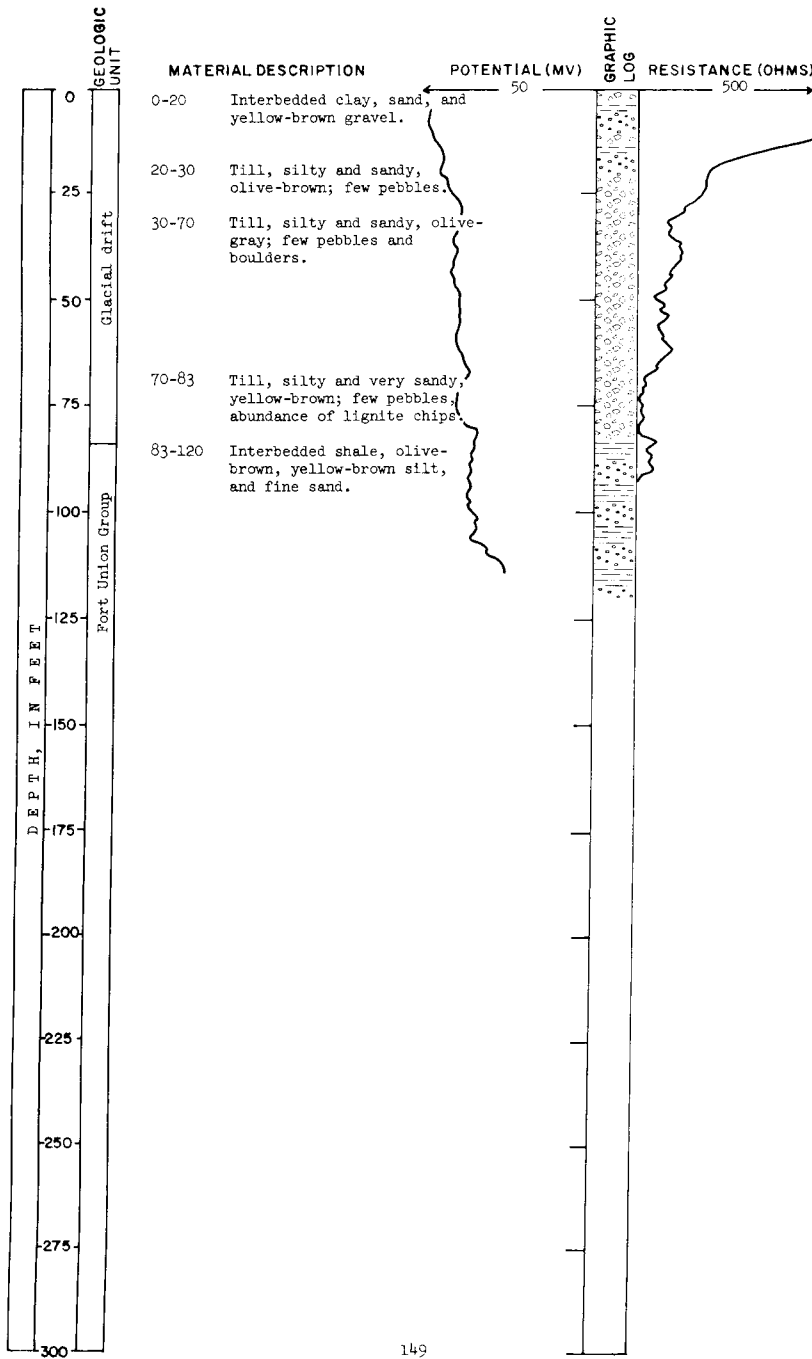
DATE DRILLED: June 7, 1965  
DEPTH: 440 feet



LOCATION: Ward County  
155-87-28ccc

TEST HOLE 3223

DATE DRILLED: June 7, 1965  
DEPTH: 120 feet



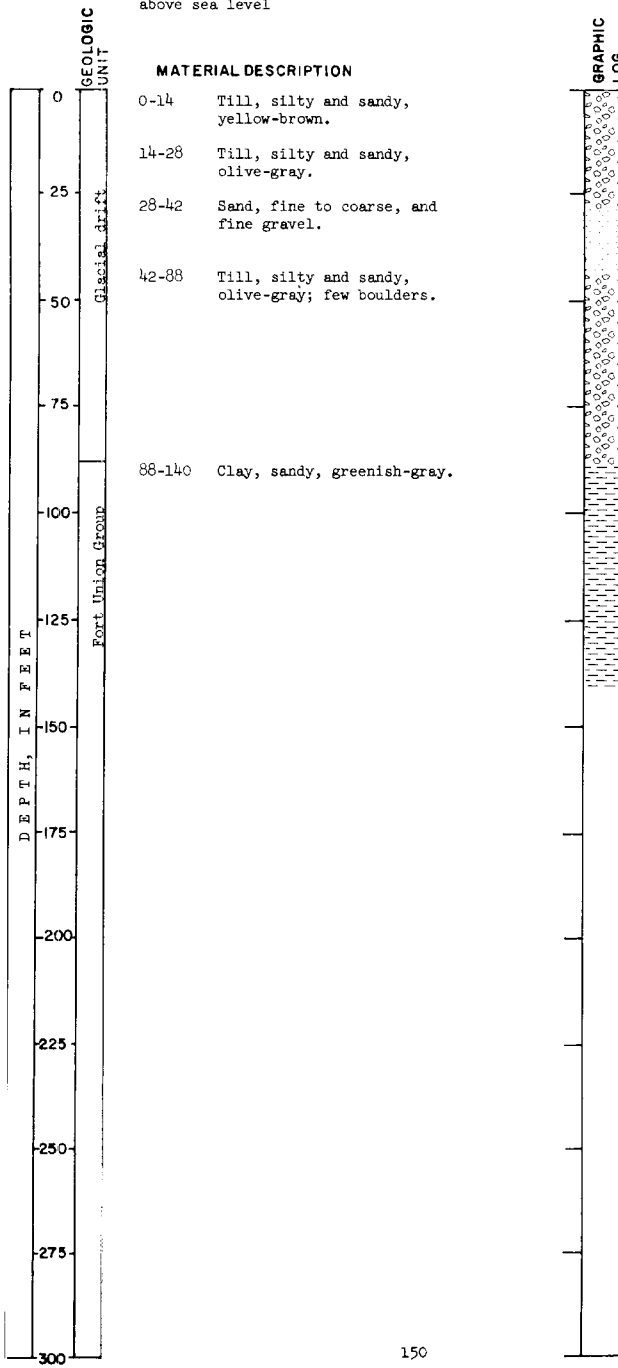


LOCATION: Ward County  
 156-81-5bbb  
 ELEVATION: 1,555 feet  
 above sea level

TEST HOLE 2365

DATE DRILLED: July 15, 1965

DEPTH: 140 feet



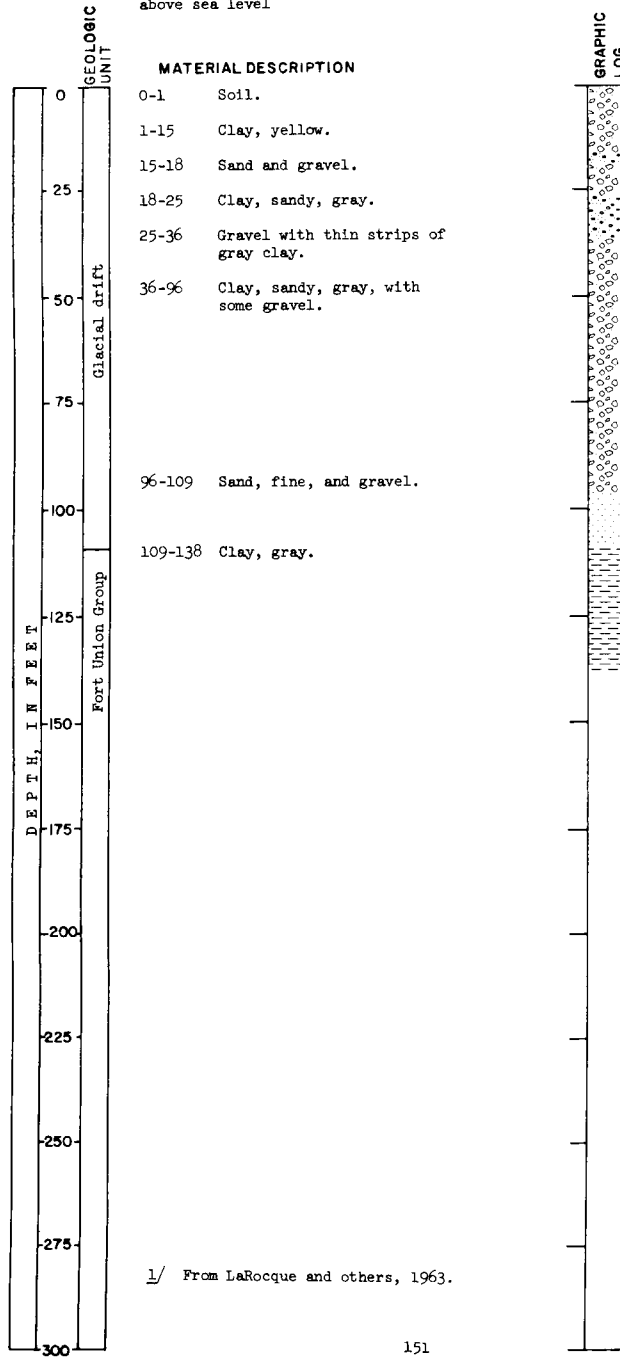
LOCATION: Ward County  
156-81-17ccc

TEST HOLE  
U.S. Geol. Survey<sup>1/</sup>

DATE DRILLED: August 1, 1947

ELEVATION: 1,583 feet  
above sea level

DEPTH: 138 feet



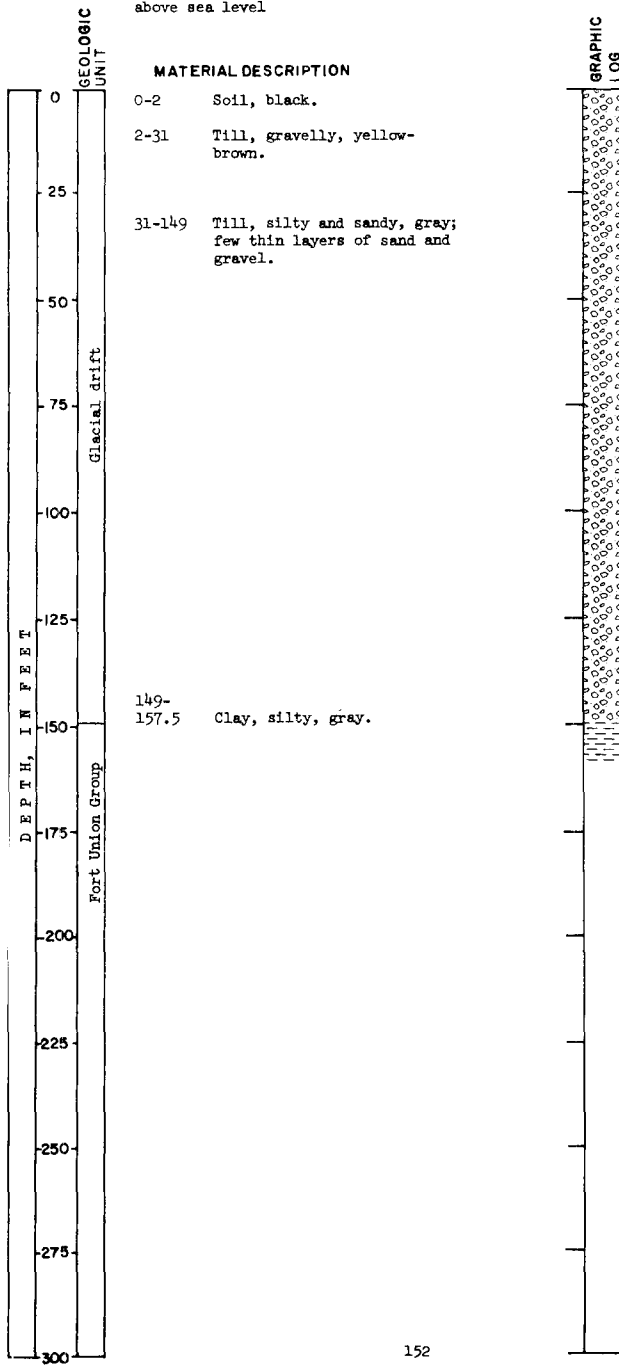
LOCATION: Ward County  
156-82-4aaa

ELEVATION: 1,615 feet  
above sea level

TEST HOLE 1398

DATE DRILLED: 1958

DEPTH: 157.5 feet

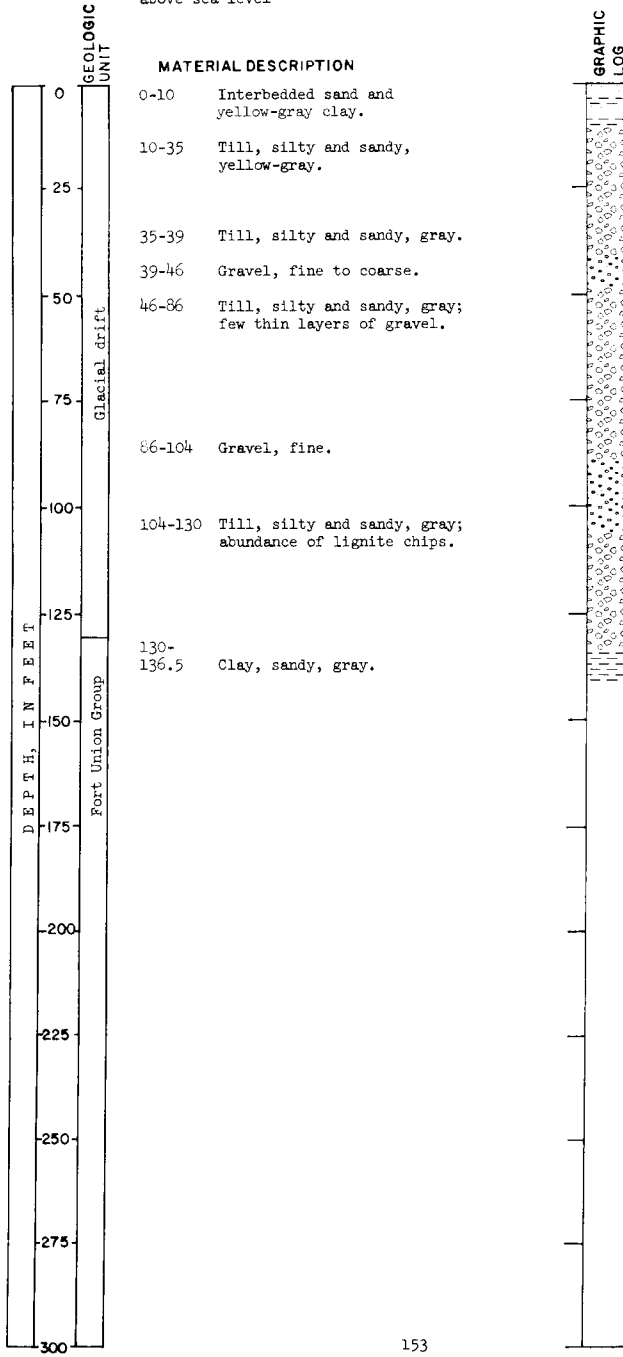


LOCATION: Ward County  
 156-82-16aaa1  
 ELEVATION: 1,625 feet  
 above sea level

TEST HOLE 1396

DATE DRILLED: 1958

DEPTH: 136.5 feet



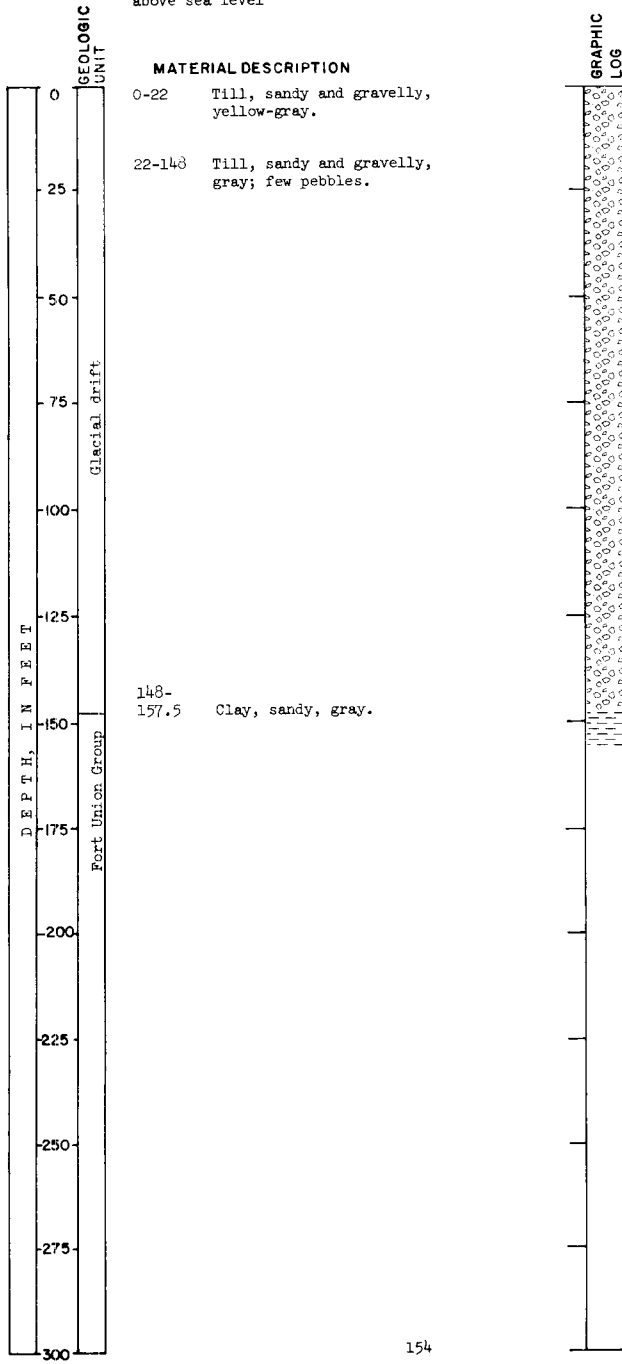
LOCATION: Ward County  
 156-82-16aaa2

ELEVATION: 1,625 feet  
 above sea level

TEST HOLE 1397

DATE DRILLED: 1958

DEPTH: 157.5 feet

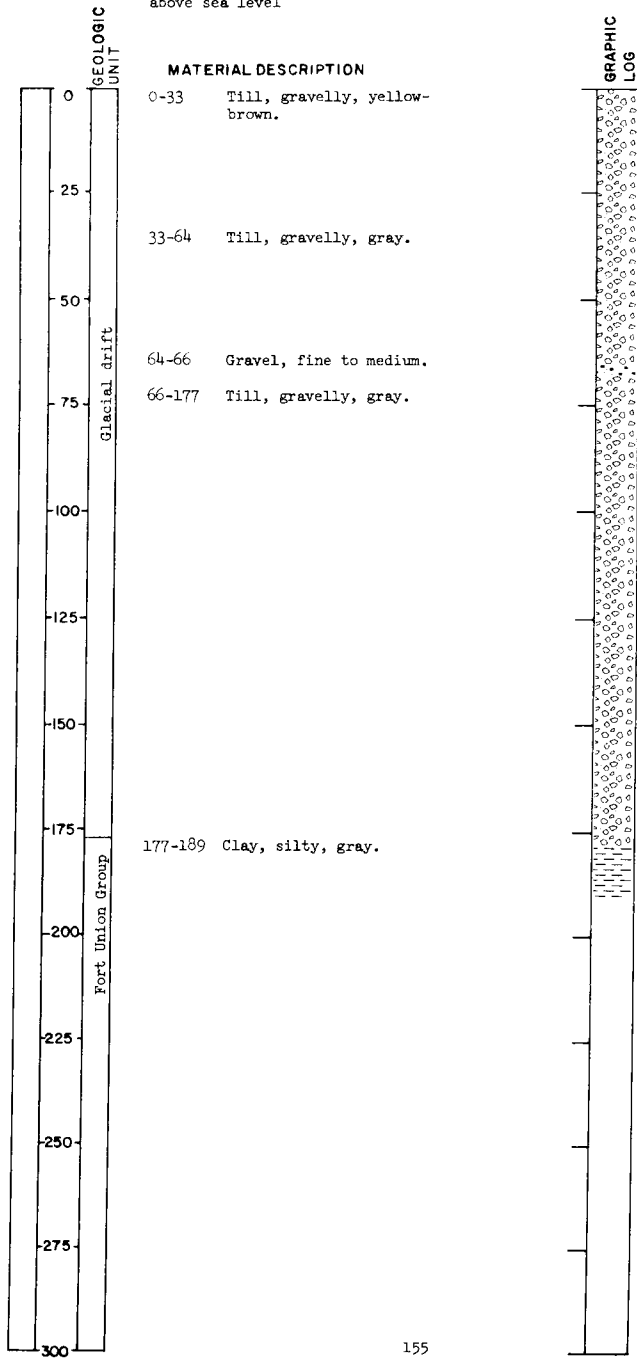


LOCATION: Ward County  
156-82-31ddd  
ELEVATION: 1,623 feet  
above sea level

TEST HOLE 1400

DATE DRILLED: 1958

DEPTH: 189 feet



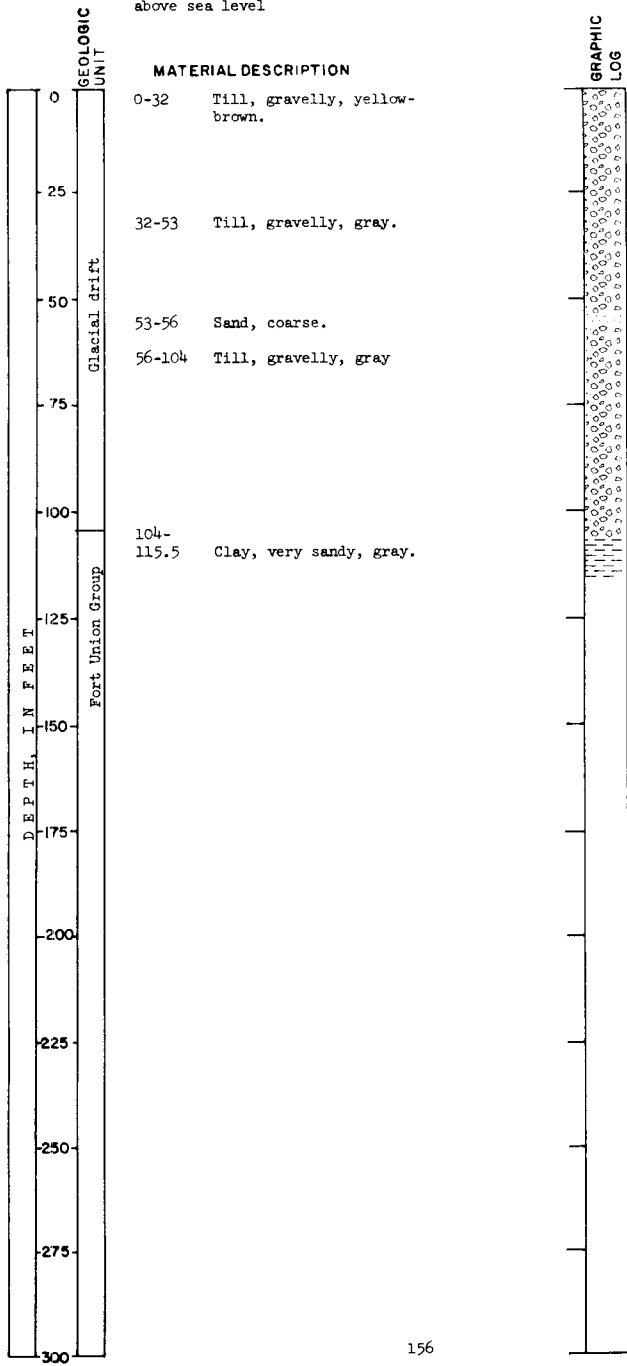
LOCATION: Ward County  
 156-82-34ecc

ELEVATION: 1,636 feet  
 above sea level

TEST HOLE 1395

DATE DRILLED: 1958

DEPTH: 115.5 feet



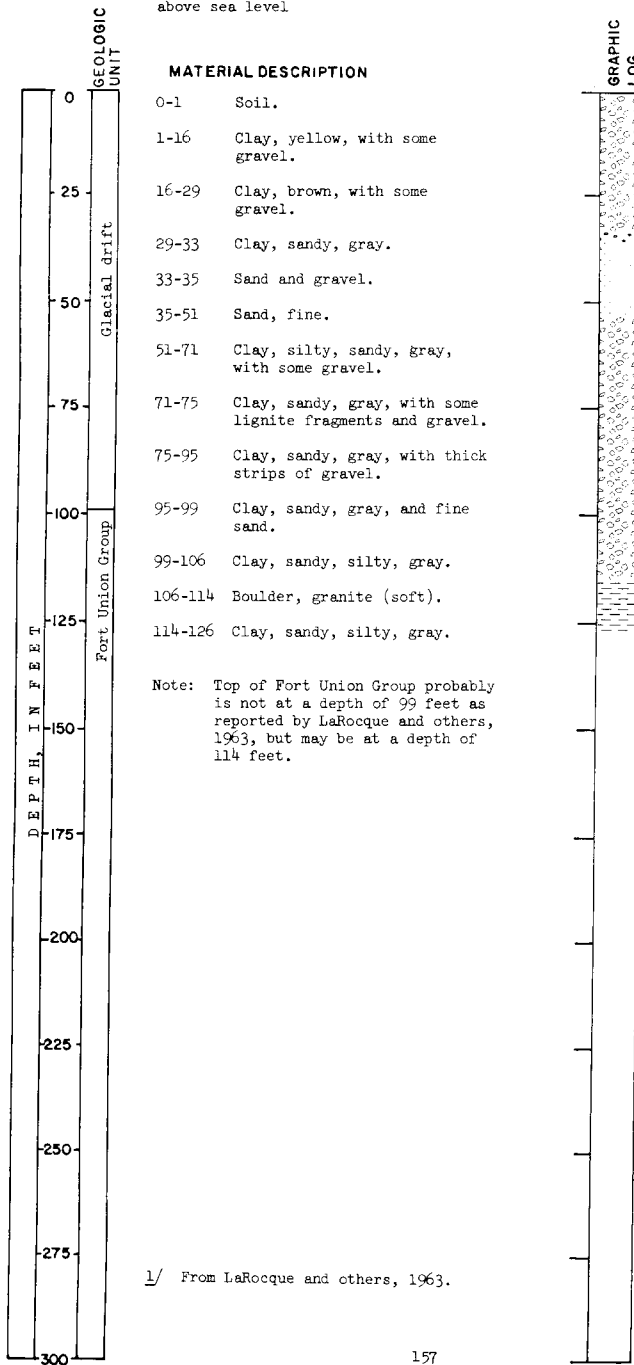
LOCATION: Ward County  
 156-82-34add U.S. Geol. Survey <sup>1/</sup>

ELEVATION: 1,618 feet  
 above sea level

**TEST HOLE**

DATE DRILLED: August 2, 1947

DEPTH: 126 feet





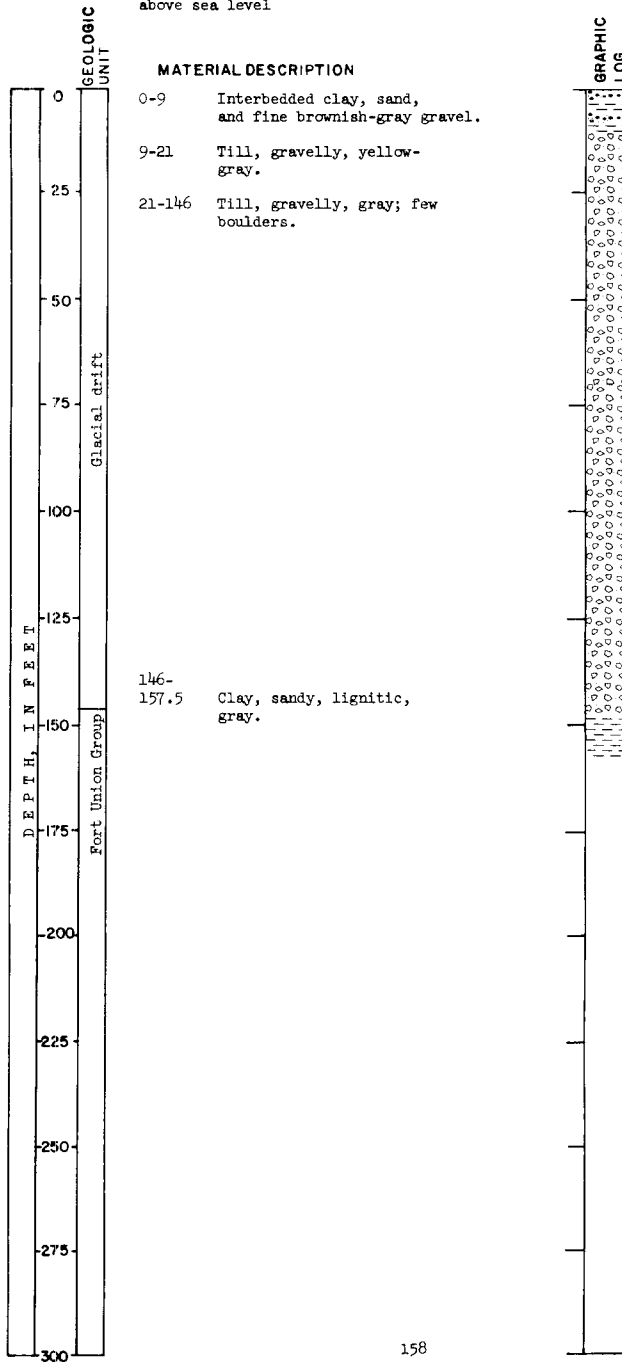
LOCATION: Ward County  
156-83-4aaa

TEST HOLE 1401

DATE DRILLED: 1958

ELEVATION: 1,642 feet  
above sea level

DEPTH: 157.5 feet



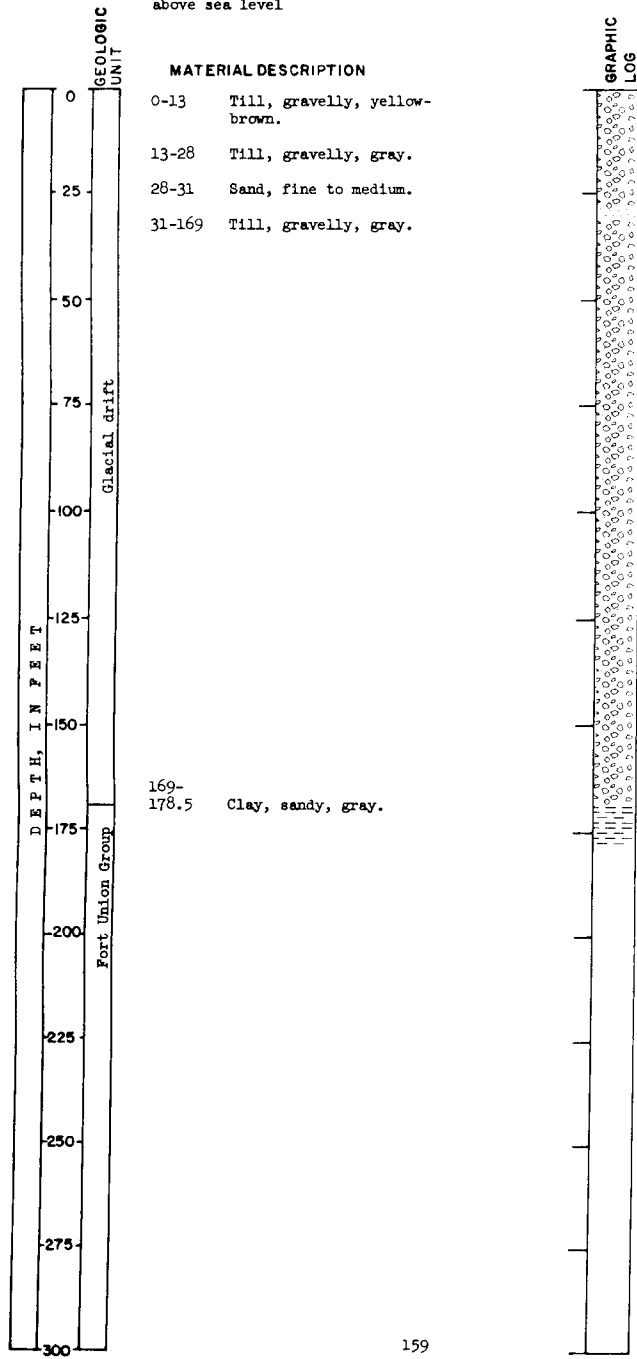
LOCATION: Ward County  
156-83-6aaa

ELEVATION: 1,698 feet  
above sea level

TEST HOLE 1402

DATE DRILLED: 1958

DEPTH: 178.5 feet



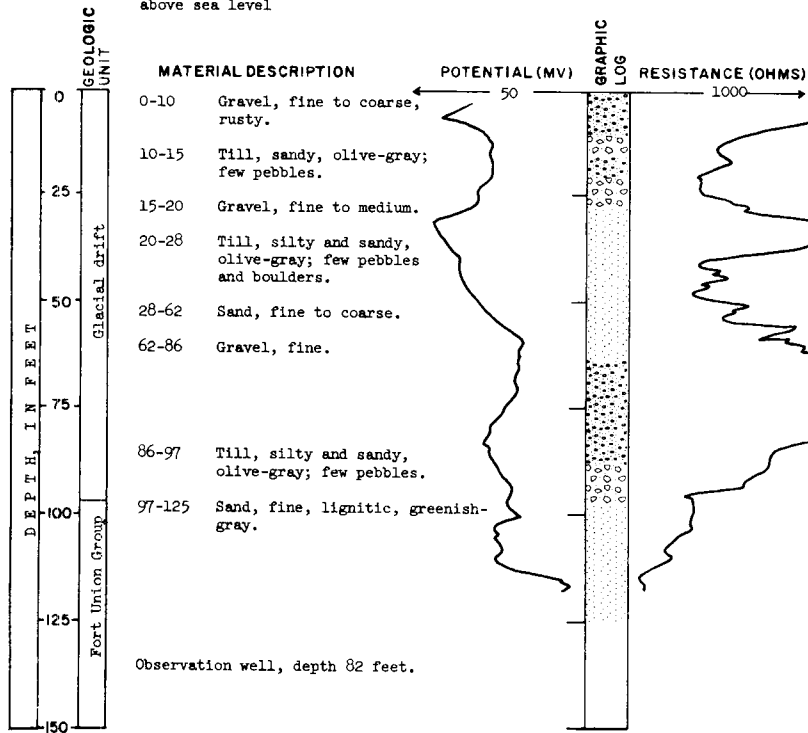
LOCATION: Ward County  
156-83-25bbc1

ELEVATION: 1,628 feet  
above sea level

TEST HOLE 3240

DATE DRILLED: July 28, 1965

DEPTH: 125 feet



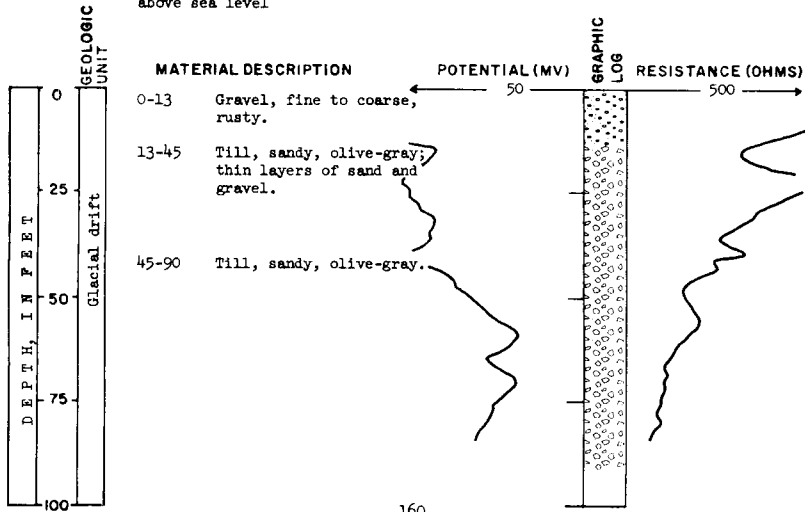
LOCATION: Ward County  
156-83-25bbc2

ELEVATION: 1,628 feet  
above sea level

TEST HOLE 3240A

DATE DRILLED: August 30, 1965

DEPTH: 90 feet



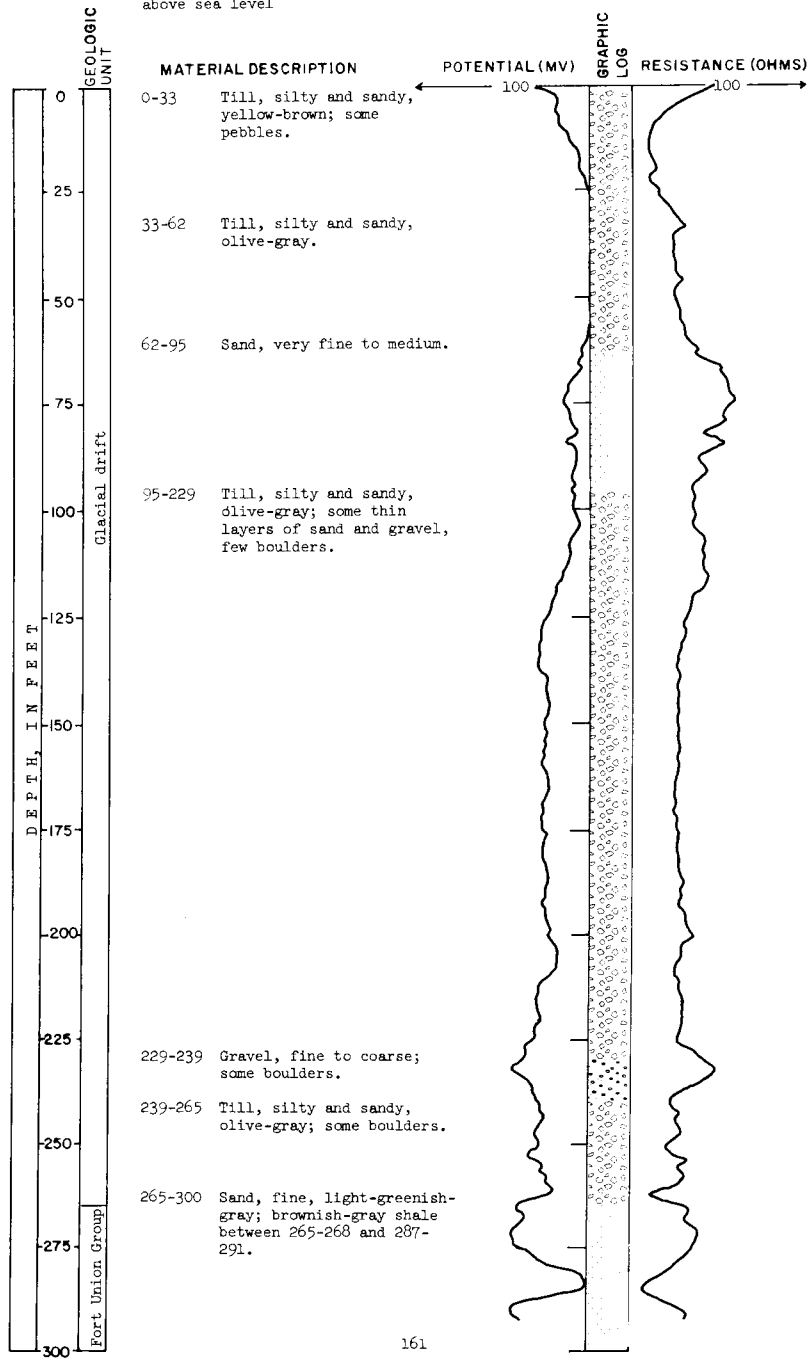
LOCATION: Ward County  
156-83-29ddd

ELEVATION: 1,753 feet  
above sea level

TEST HOLE 3328

DATE DRILLED: June 3, 1966

DEPTH: 300 feet



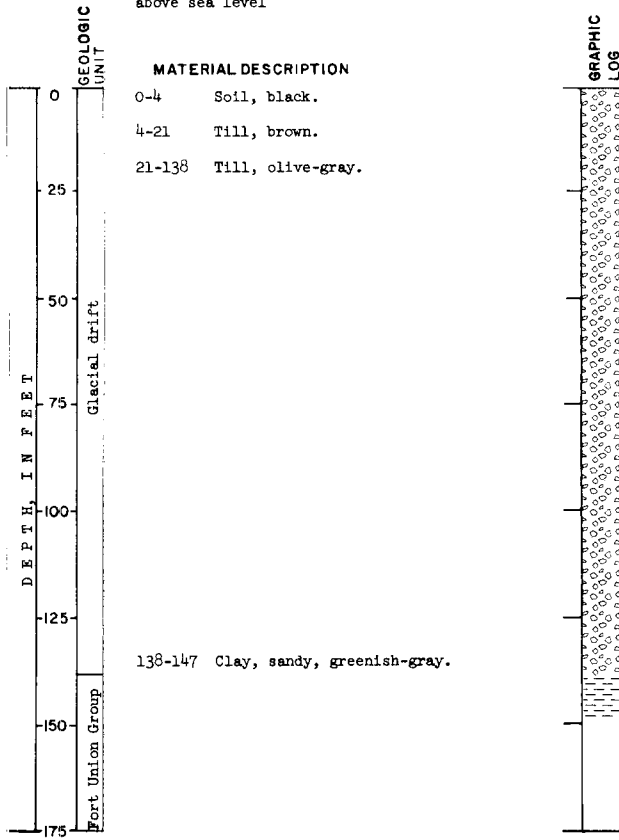
LOCATION: Ward County  
156-84-5acc

ELEVATION: 1,572 feet  
above sea level

TEST HOLE 1512

DATE DRILLED: 1959

DEPTH: 147 feet



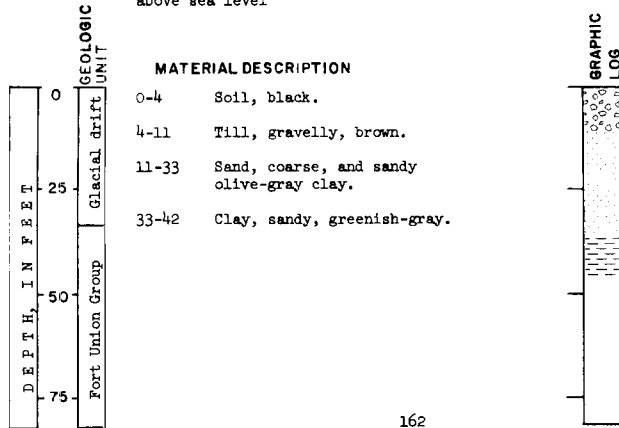
LOCATION: Ward County  
156-84-5adc

ELEVATION: 1,575 feet  
above sea level

TEST HOLE 1511

DATE DRILLED: 1959

DEPTH: 42 feet



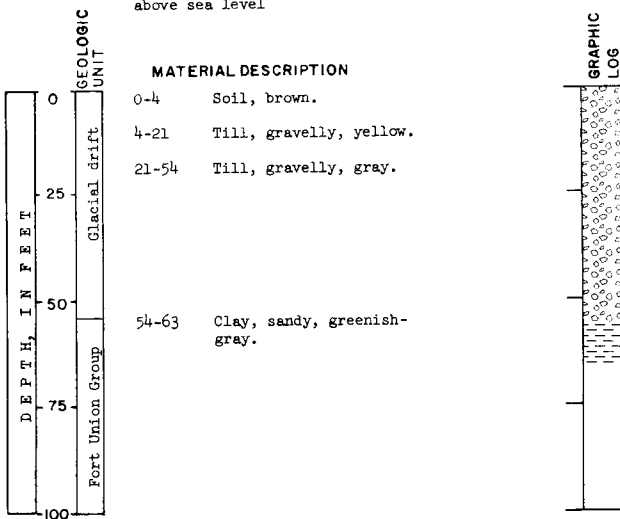
LOCATION: Ward County  
156-84-5bdc

ELEVATION: 1,772 feet  
above sea level

TEST HOLE 1513

DATE DRILLED: 1959

DEPTH: 63 feet



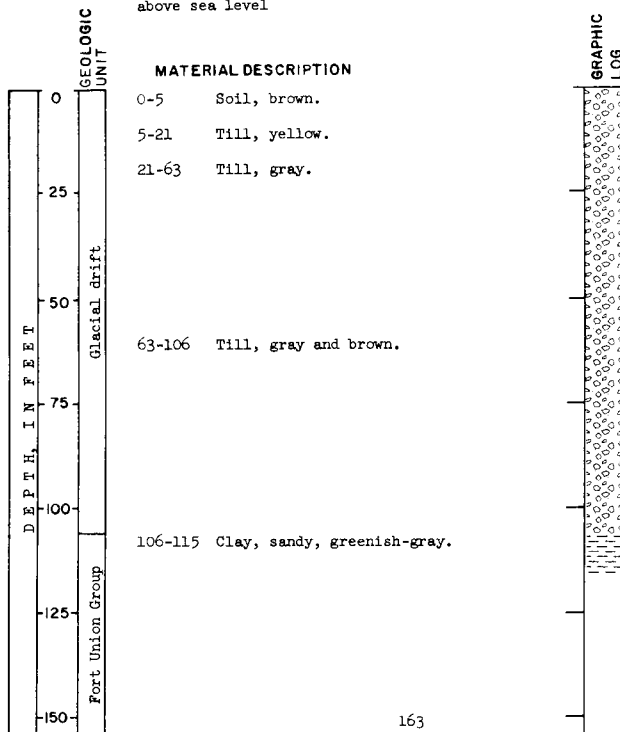
LOCATION: Ward County  
156-84-23cdc

ELEVATION: 1,578 feet  
above sea level

TEST HOLE 1508

DATE DRILLED: 1959

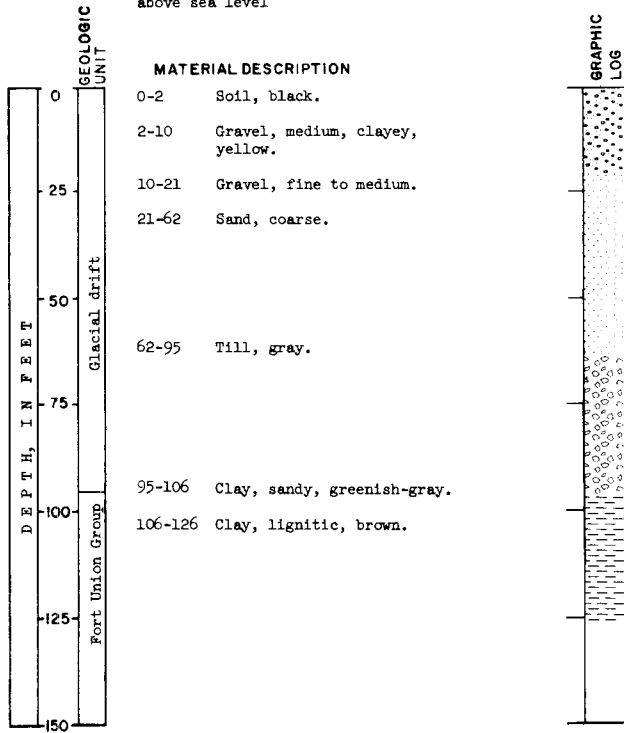
DEPTH: 115 feet



LOCATION: Ward County  
156-84-23dccc  
ELEVATION: 1,568 feet  
above sea level

TEST HOLE 1509

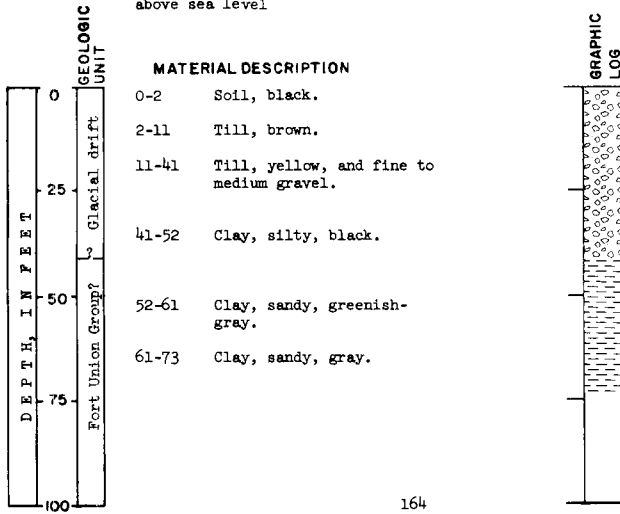
DATE DRILLED: 1959  
DEPTH: 126 feet



LOCATION: Ward County  
156-84-23dccc  
ELEVATION: 1,572 feet  
above sea level

TEST HOLE 1510

DATE DRILLED: 1958  
DEPTH: 73 feet



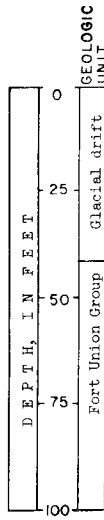
LOCATION: Ward County  
156-85-2abb

ELEVATION: 1,650 feet  
above sea level

TEST HOLE 1408

DATE DRILLED: 1958

DEPTH: 52.5 feet



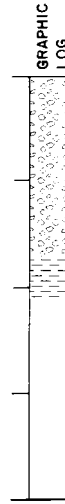
**MATERIAL DESCRIPTION**

0-3 Soil, black.

3-31 Till, yellow to yellow-gray, and fine gravel.

31-42 Till, gravelly, gray.

42-52.5 Clay, silty, gray.



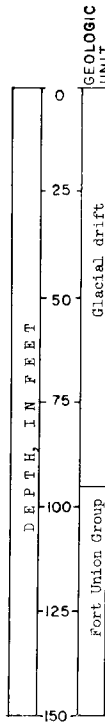
LOCATION: Ward County  
156-85-2bab

ELEVATION: 1,652 feet  
above sea level

TEST HOLE 1407

DATE DRILLED: 1958

DEPTH: 105 feet



**MATERIAL DESCRIPTION**

0-16 Till, silty, yellow-gray.

16-27 Till, silty, gray.

27-34 Gravel, fine, sandy.

34-57 Till, light-gray.

57-95 Gravel, fine, sandy.

95-105 Clay, silty, gray.





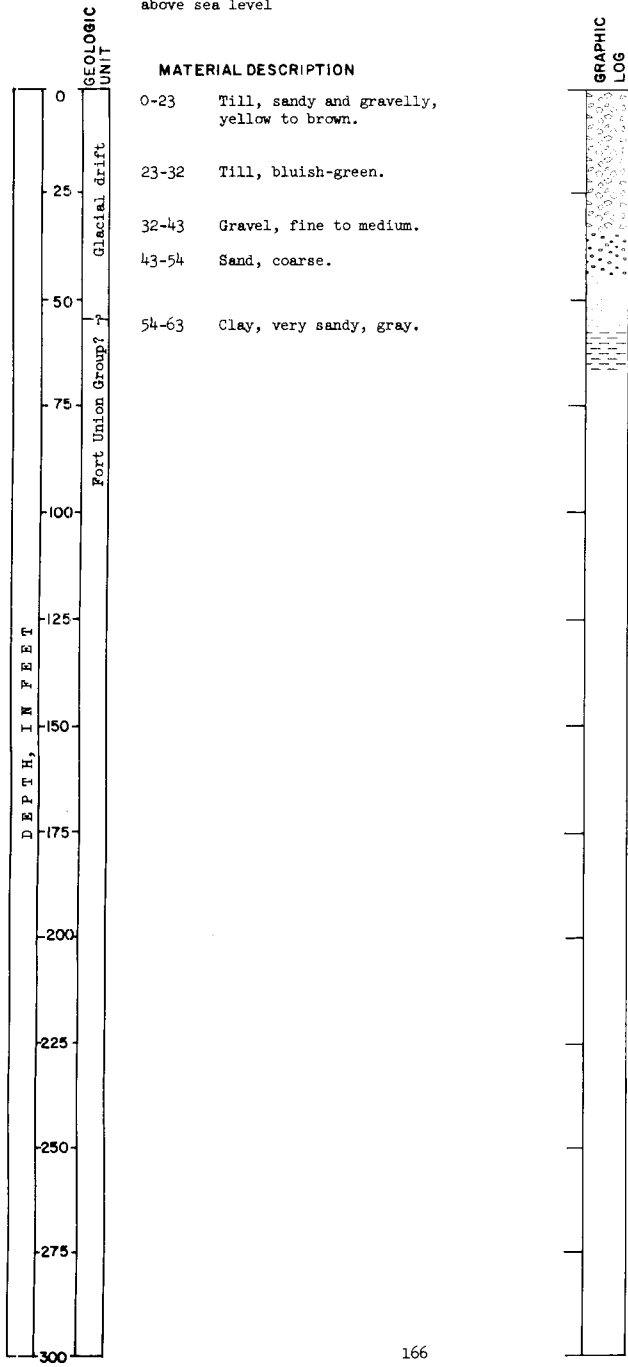
LOCATION: Ward County  
156-85-2bbb

ELEVATION: 1,652 feet  
above sea level

TEST HOLE 1406

DATE DRILLED: 1958

DEPTH: 63 feet

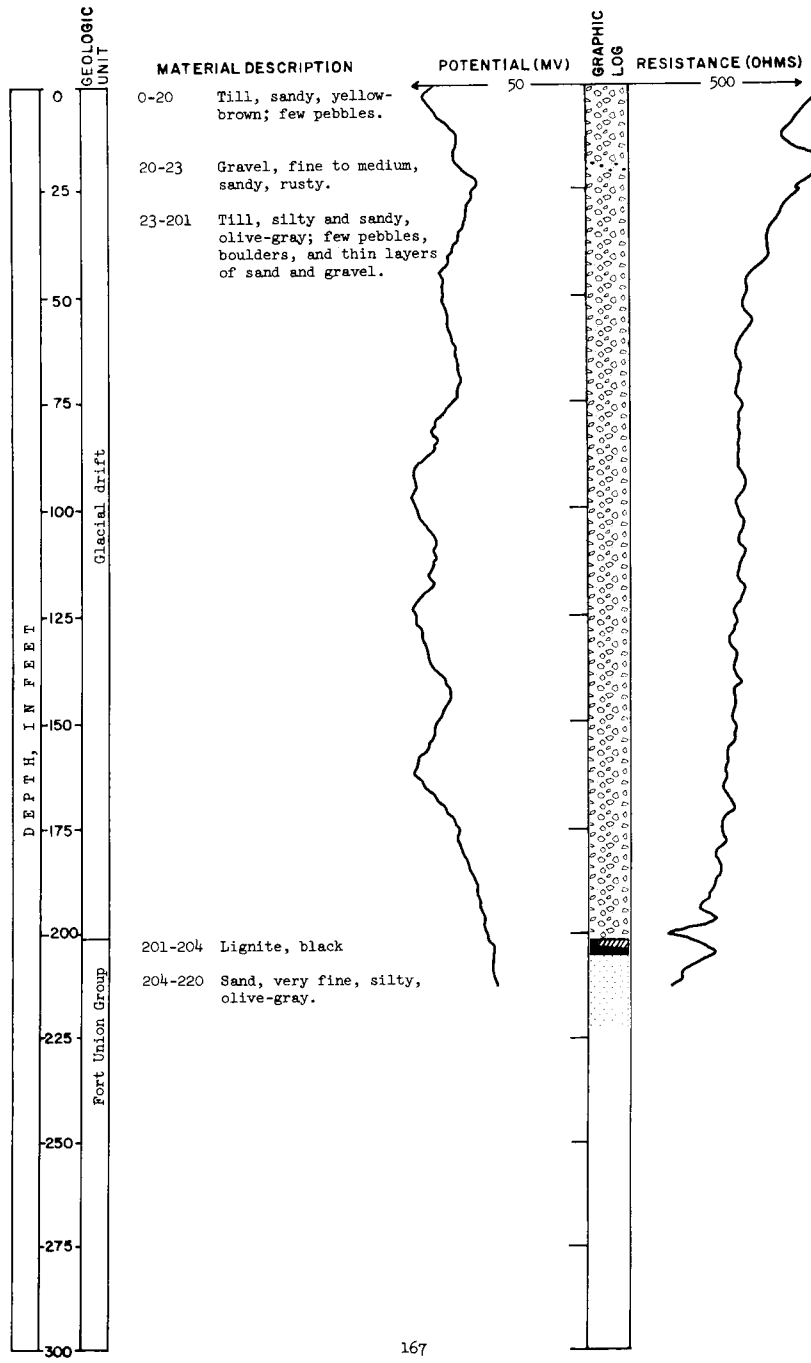


LOCATION: Ward County  
156-85-31ddd

TEST HOLE 3221

DATE DRILLED: June 4, 1965

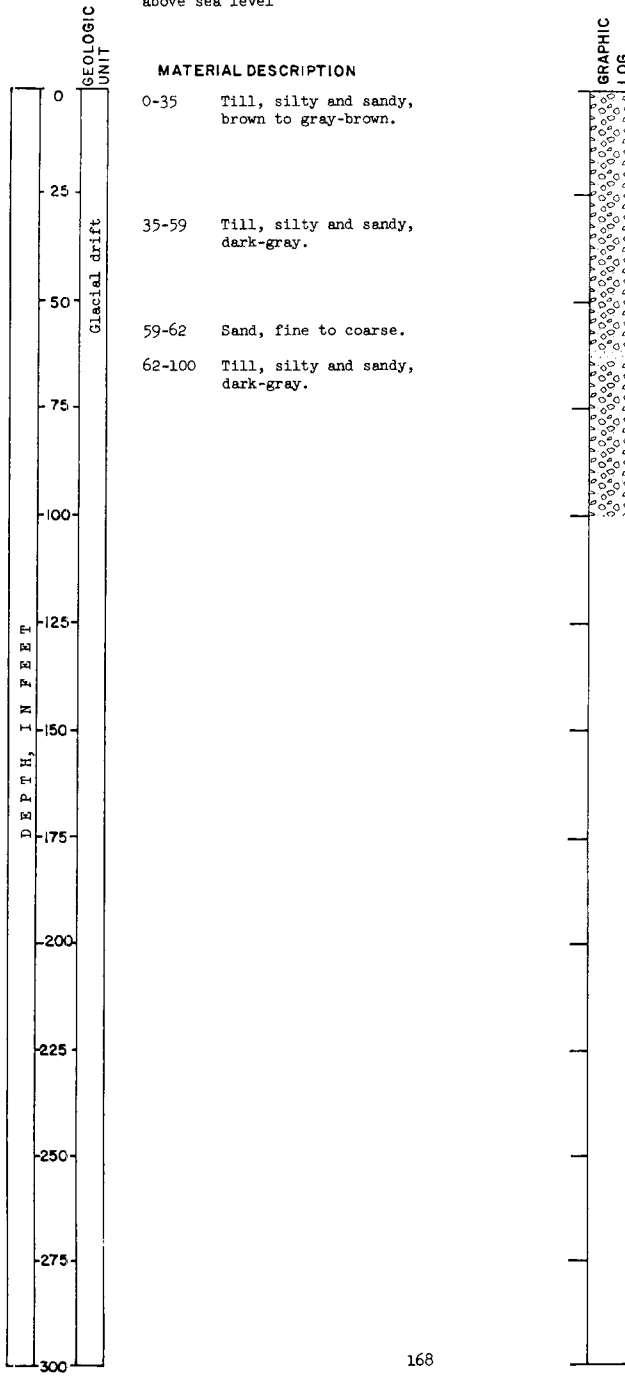
DEPTH: 220 feet



LOCATION: Ward County  
 156-86-20bb  
 ELEVATION: 2,148 feet  
 above sea level

TEST HOLE  
 U.S. Air Force

DATE DRILLED: 1961  
 DEPTH: 101 feet

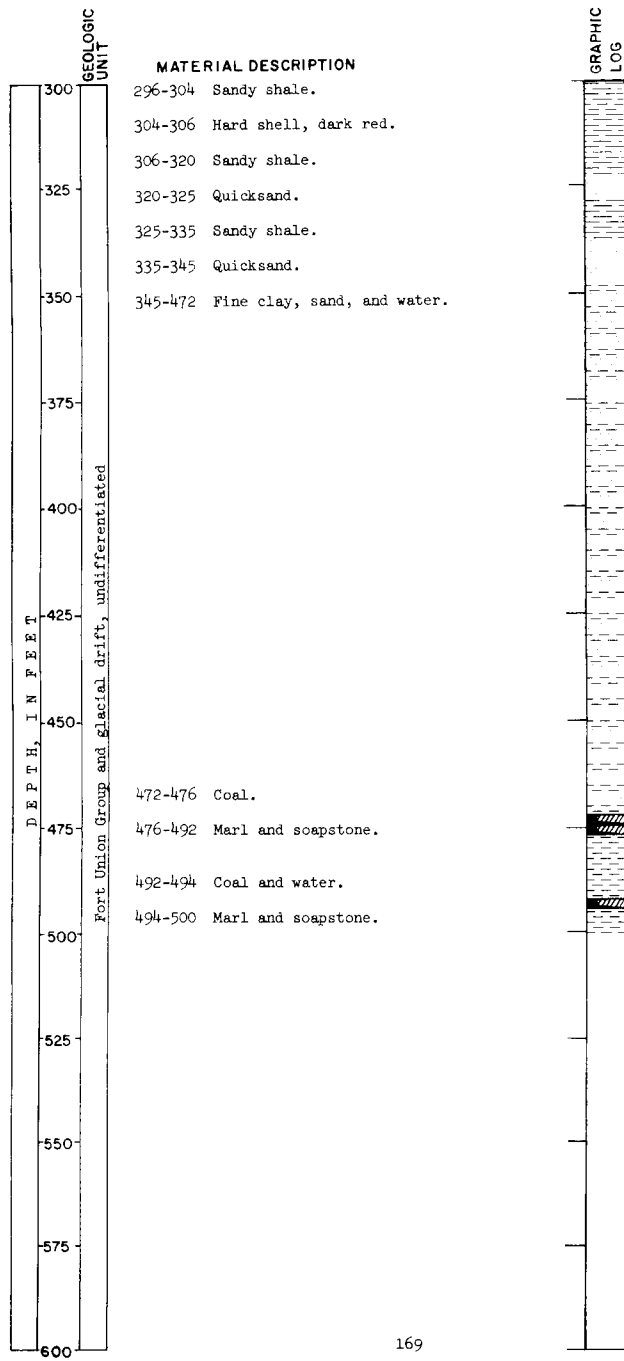


LOCATION: Ward County      Great Northern Railway  
 156-86-21cc1      Berthold test 2  
 (Continued)

DATE DRILLED: 1927

ELEVATION:

DEPTH: 500 feet



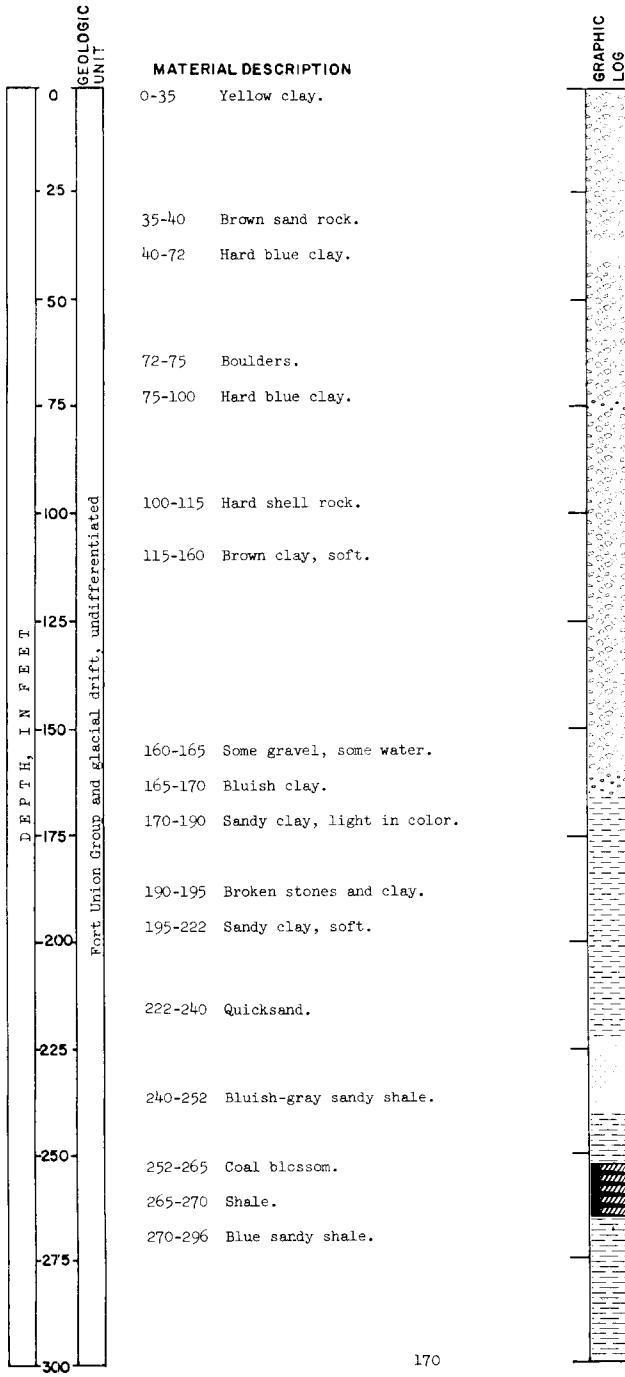
LOCATION: Ward County  
156-86-21cc1

ELEVATION:

Great Northern Railway  
Berthold test 2

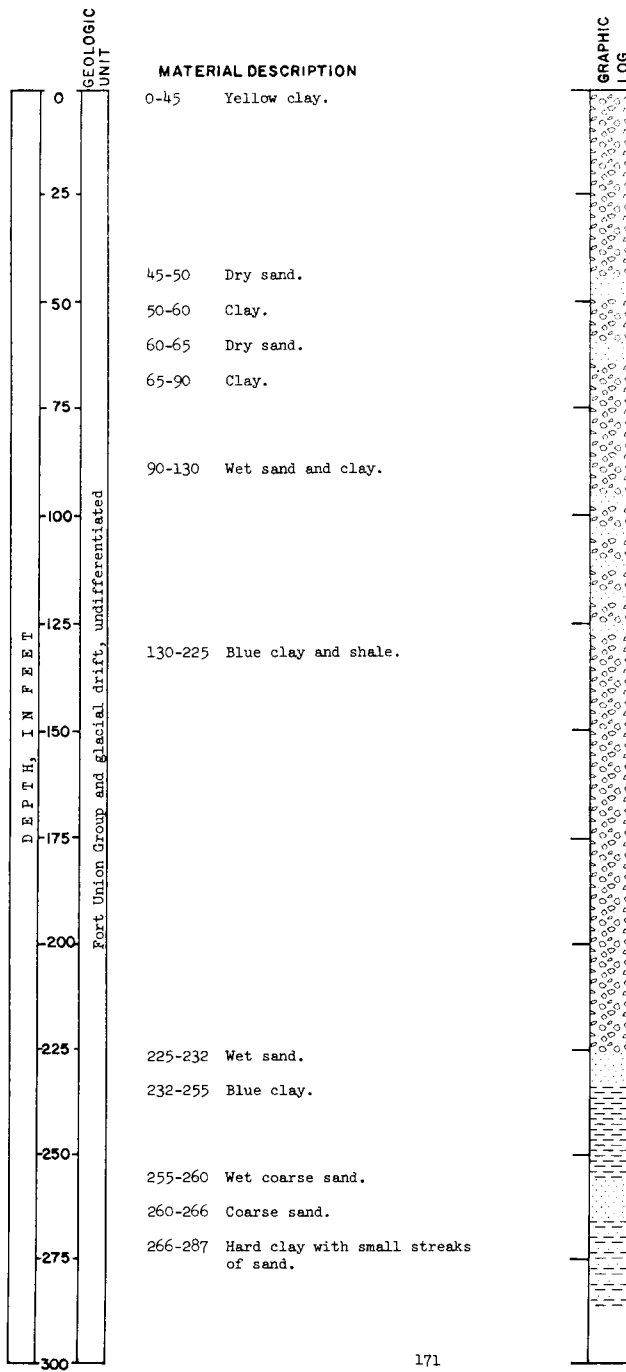
DATE DRILLED: 1927

DEPTH: 500 feet



LOCATION: Ward County Great Northern Railway  
 156-86-21cc 2 Berthold test 1  
 ELEVATION:

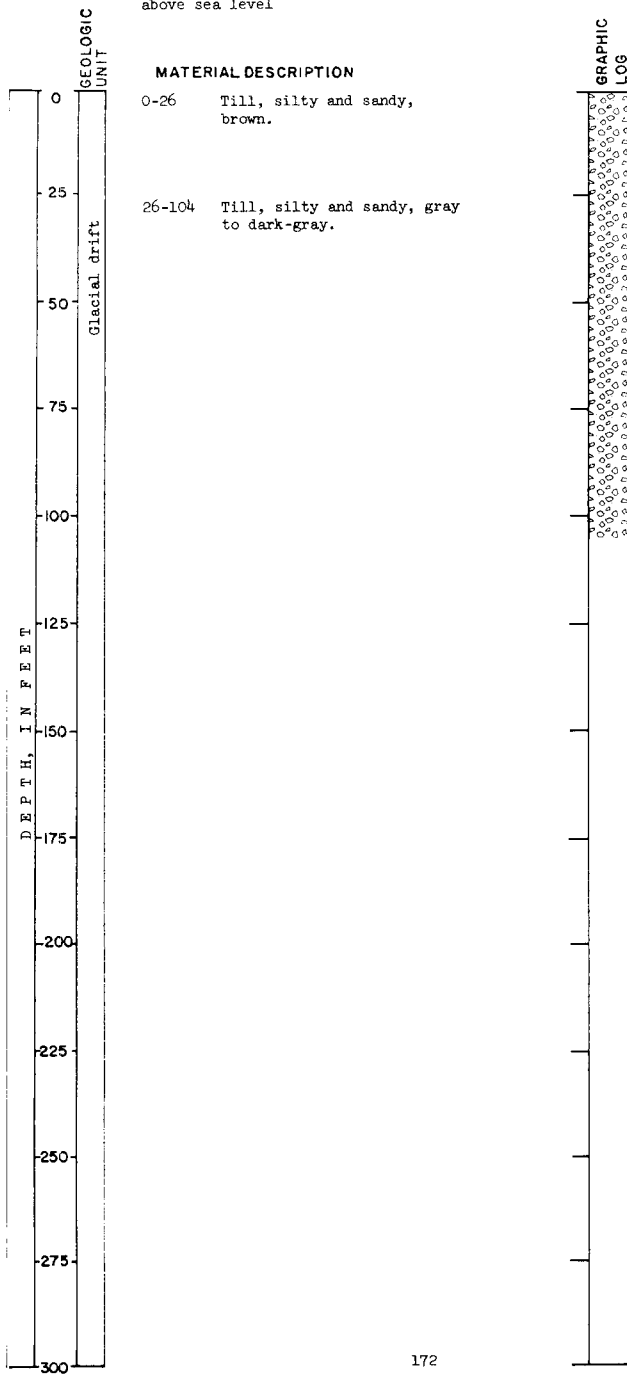
DATE DRILLED: 1918  
 DEPTH: 287 feet



LOCATION: Ward County  
156-87-9cb  
ELEVATION: 2,231 feet  
above sea level

TEST HOLE  
U.S. Air Force

DATE DRILLED: 1961  
DEPTH: 104 feet



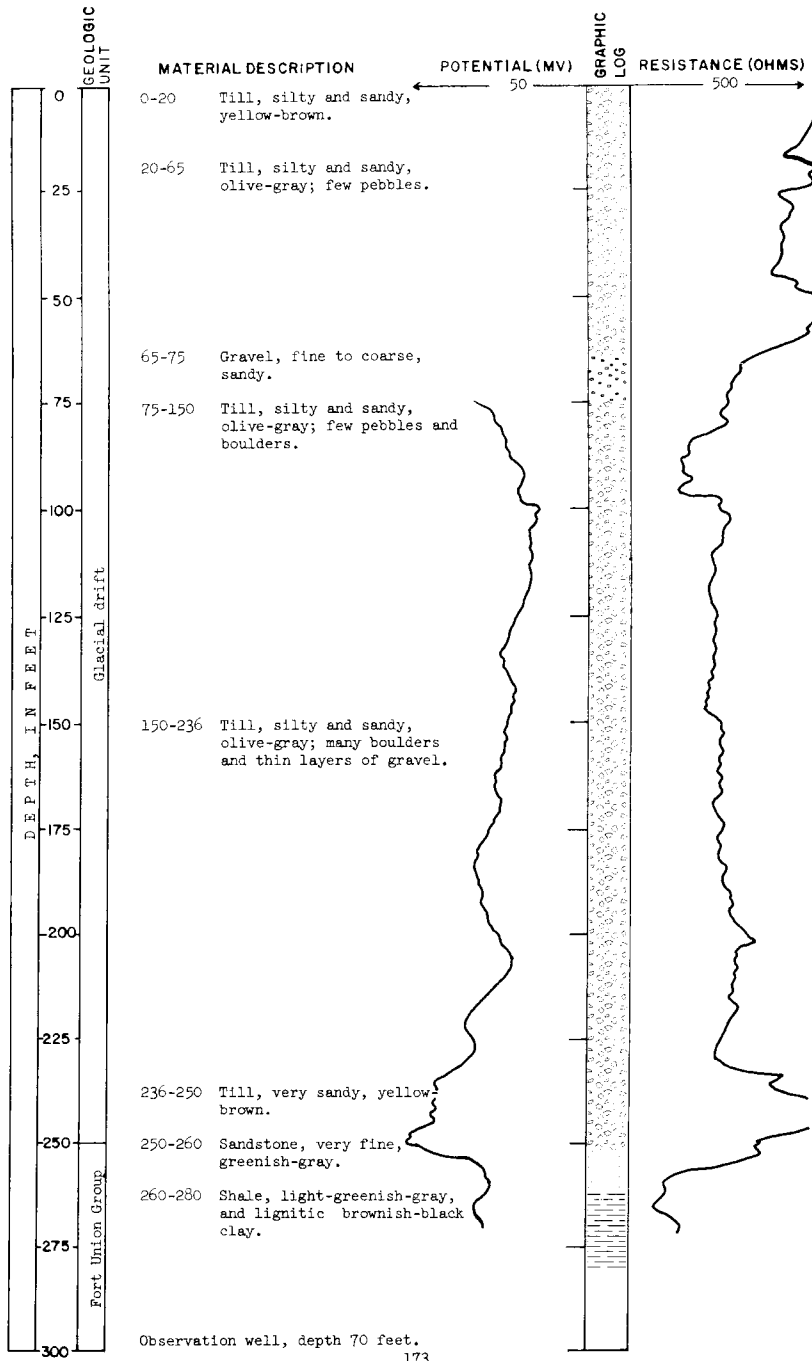
LOCATION: Ward County  
156-87-15cdd

TEST HOLE 3226

DATE DRILLED: June 8, 1965

ELEVATION:

DEPTH: 280 feet



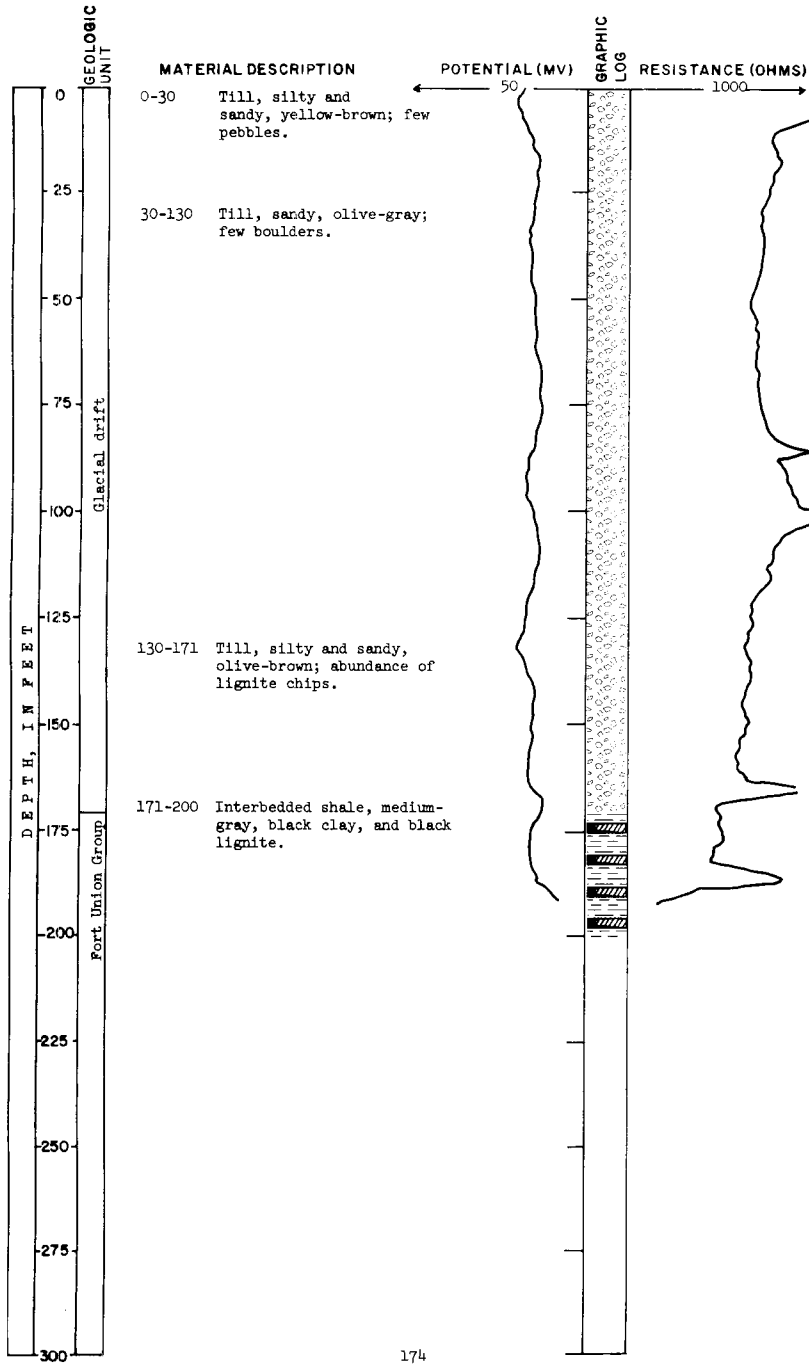


LOCATION: Ward County  
156-87-34ccd  
ELEVATION:

TEST HOLE 3225

DATE DRILLED: June 8, 1965

DEPTH: 200 feet



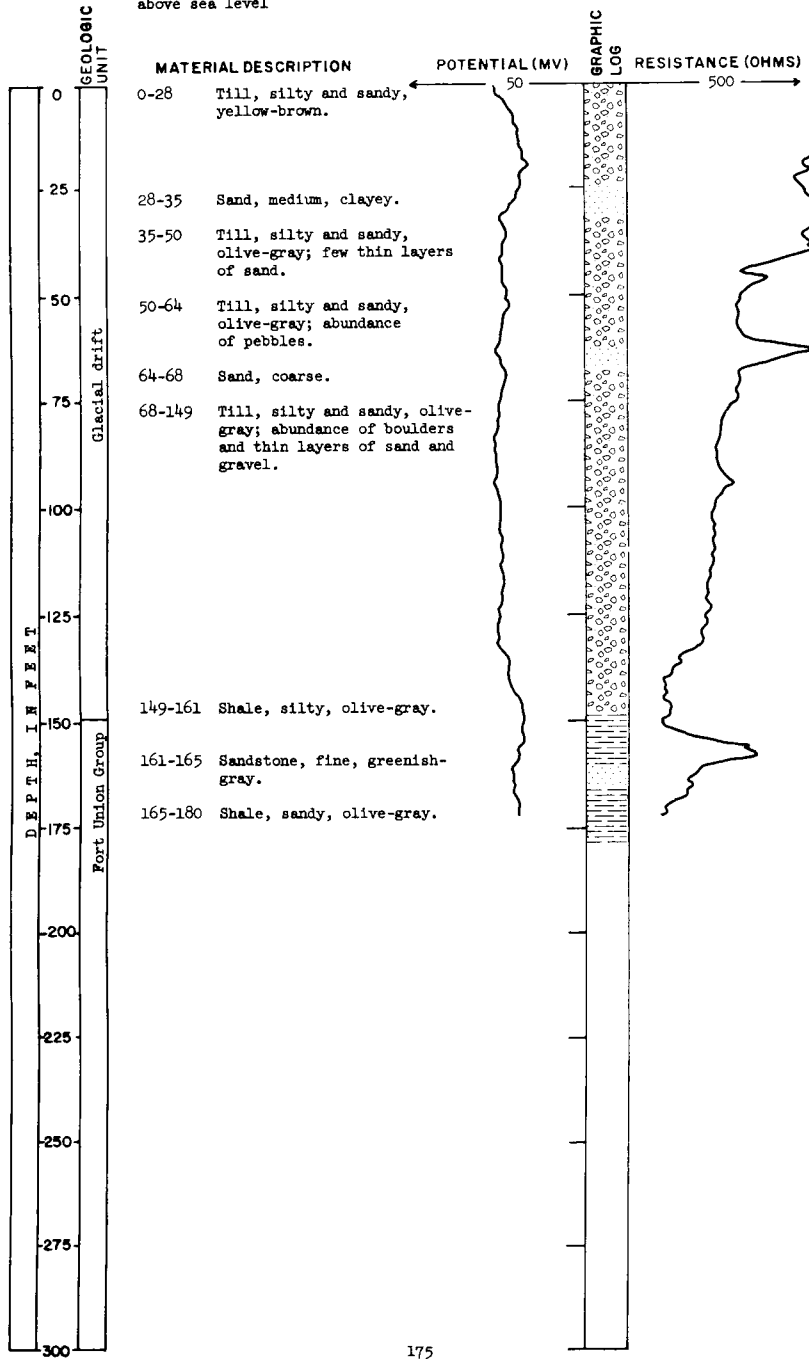
LOCATION: Ward County  
157-81-5abb

ELEVATION: 1,557 feet  
above sea level

TEST HOLE 3246

DATE DRILLED: August 4, 1965

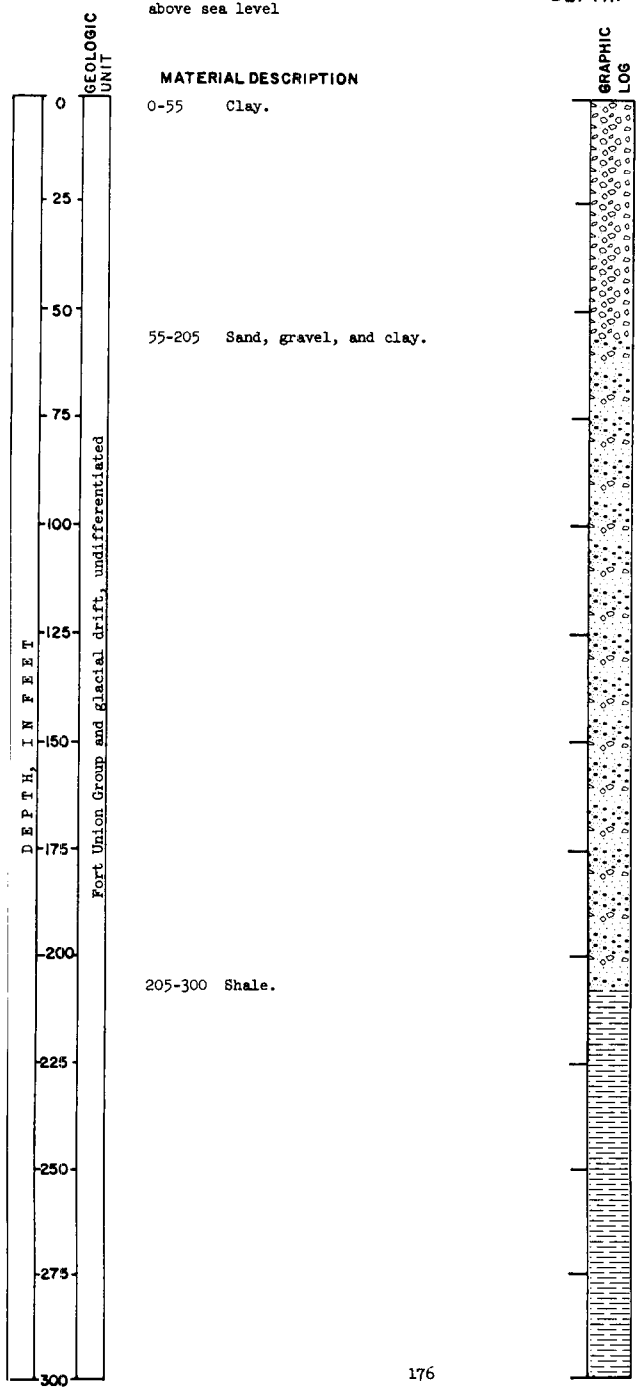
DEPTH: 180 feet



LOCATION: Ward County  
157-82-3bbb  
ELEVATION: 1,611 feet  
above sea level

Seismograph  
shot point  
Driller's log

DATE DRILLED: August 3, 1965  
DEPTH: 300 feet



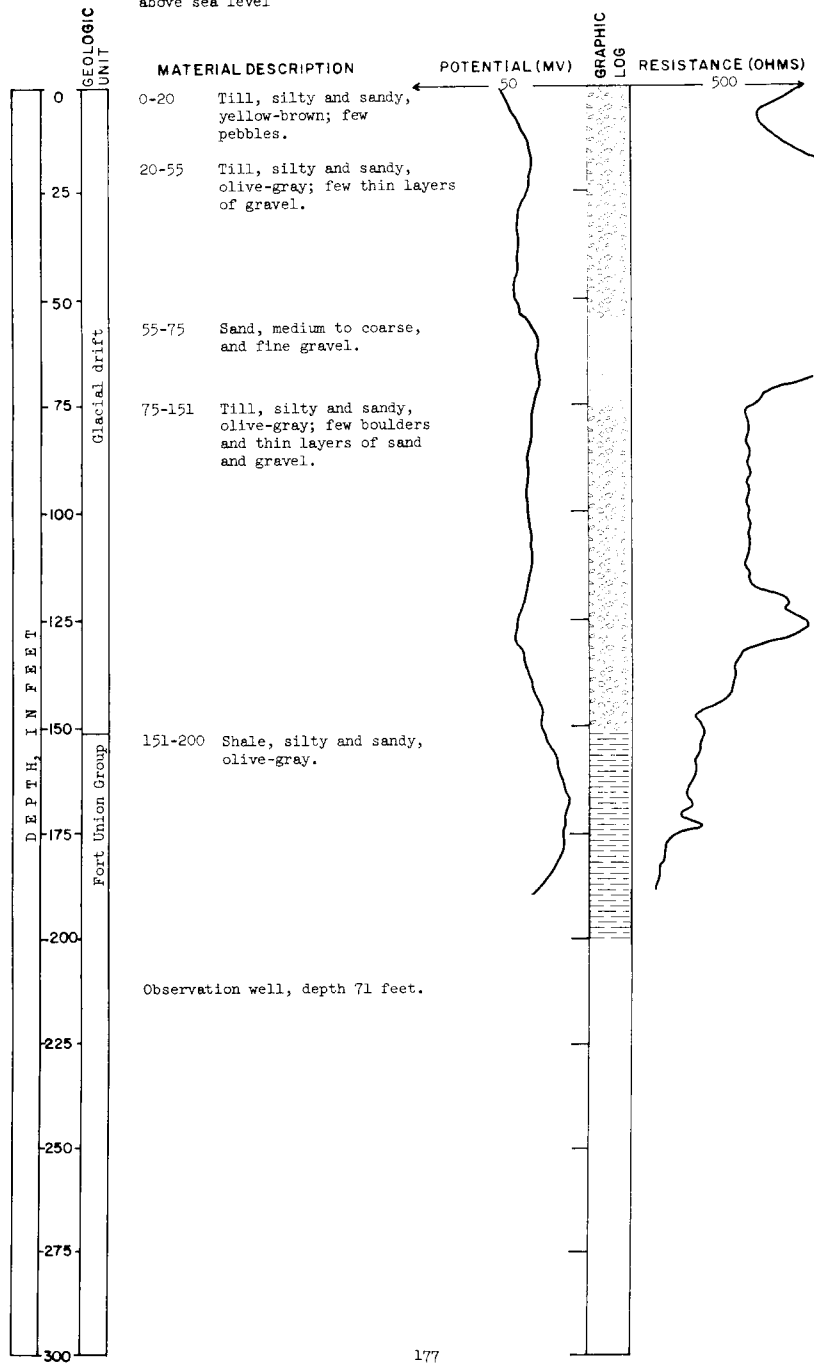
LOCATION: Ward County  
157-82-14bbb

ELEVATION: 1,602 feet  
above sea level

TEST HOLE 3241

DATE DRILLED: July 29, 1965

DEPTH: 200 feet



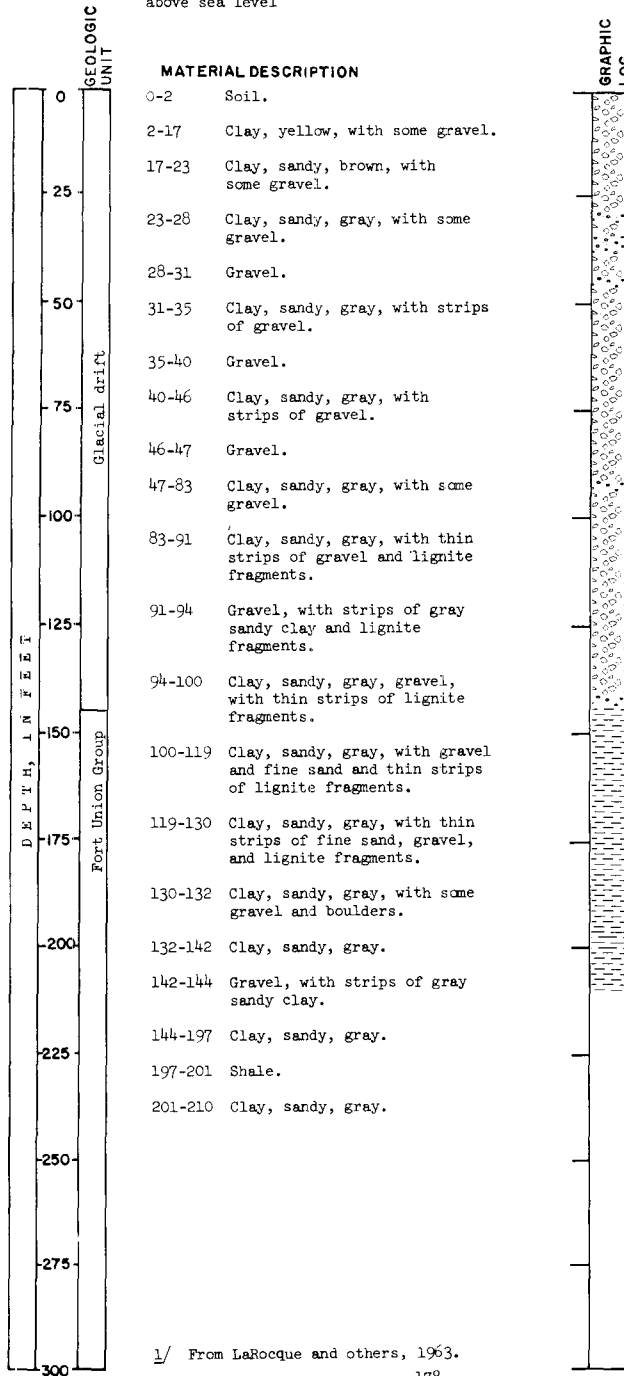
LOCATION: Ward County  
157-82-28ddd

TEST HOLE  
U.S. Geol. Survey <sup>1/</sup>

DATE DRILLED: August 1, 1947

ELEVATION: 1,619 feet  
above sea level

DEPTH: 210 feet



<sup>1/</sup> From LaRocque and others, 1963.

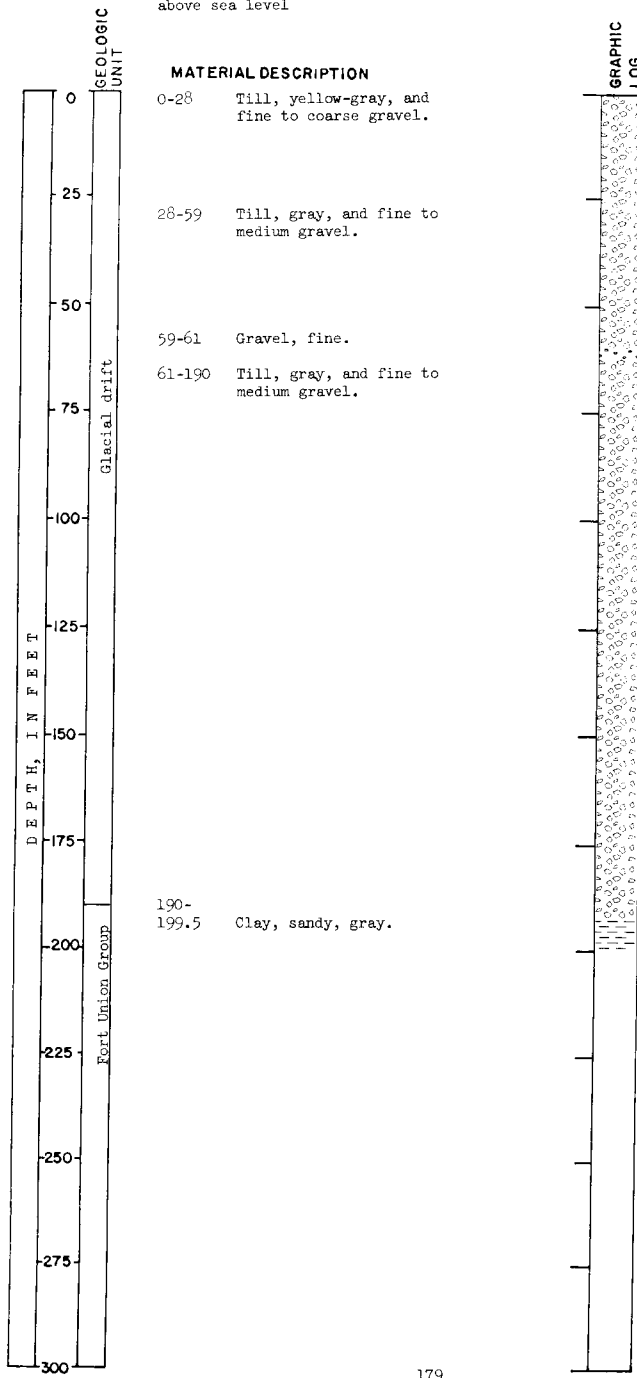
LOCATION: Ward County  
157-82-33ecc

ELEVATION: 1,645 feet  
above sea level

TEST HOLE 1399

DATE DRILLED: September 22, 1958

DEPTH: 199.5 feet



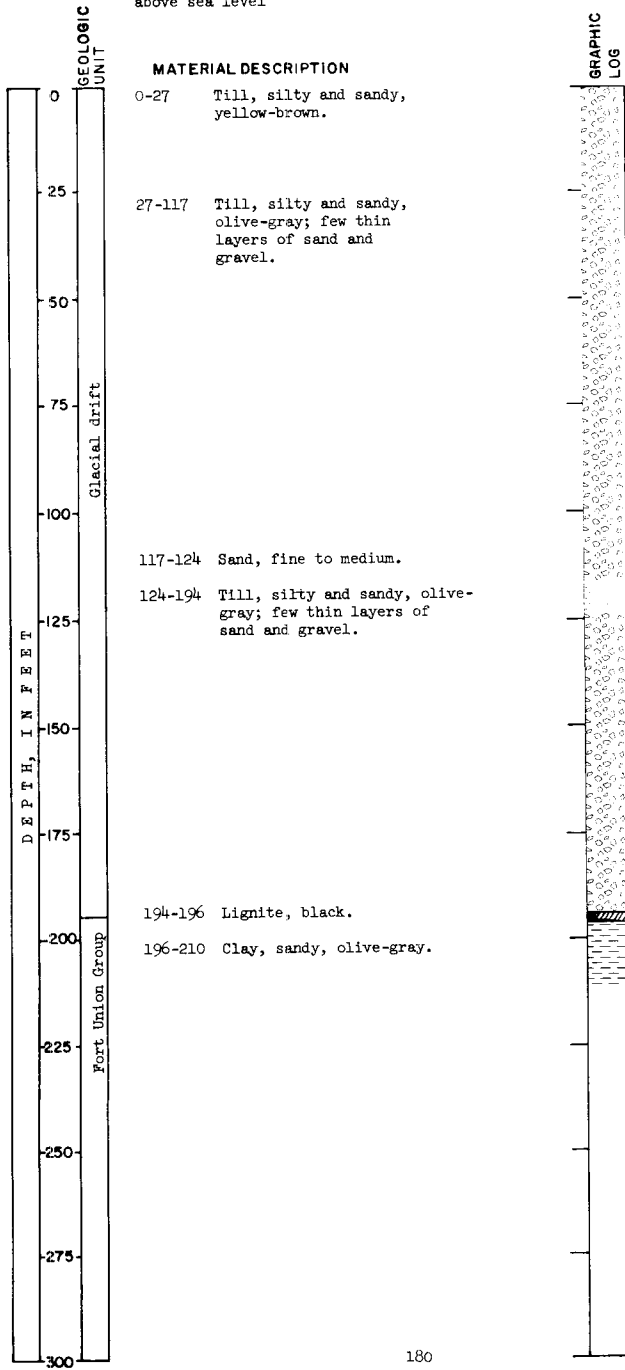
LOCATION: Ward County  
 157-83-8ccc

ELEVATION: 1,710 feet  
 above sea level

TEST HOLE 2366

DATE DRILLED: July 15, 1965

DEPTH: 210 feet



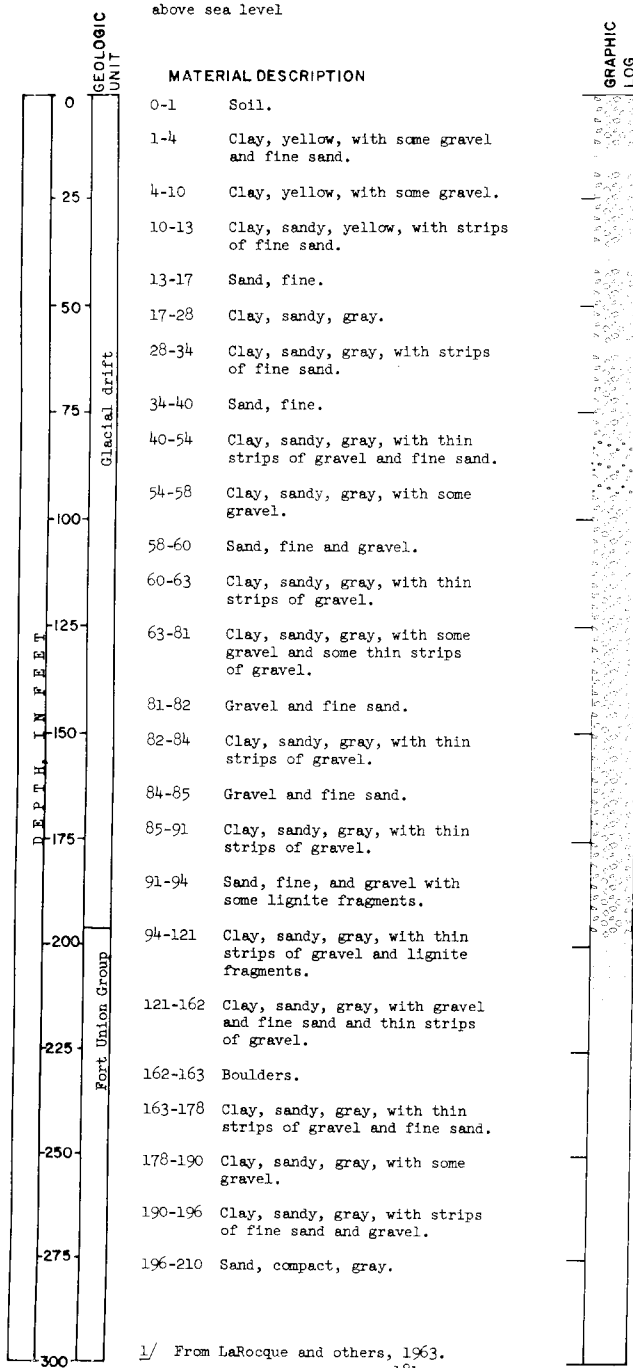
LOCATION: Ward County  
157-83-9ccc

ELEVATION: 1,687 feet  
above sea level

TEST HOLE  
U.S. Geol. Survey<sup>1/</sup>

DATE DRILLED: July 31, 1947

DEPTH: 210 feet





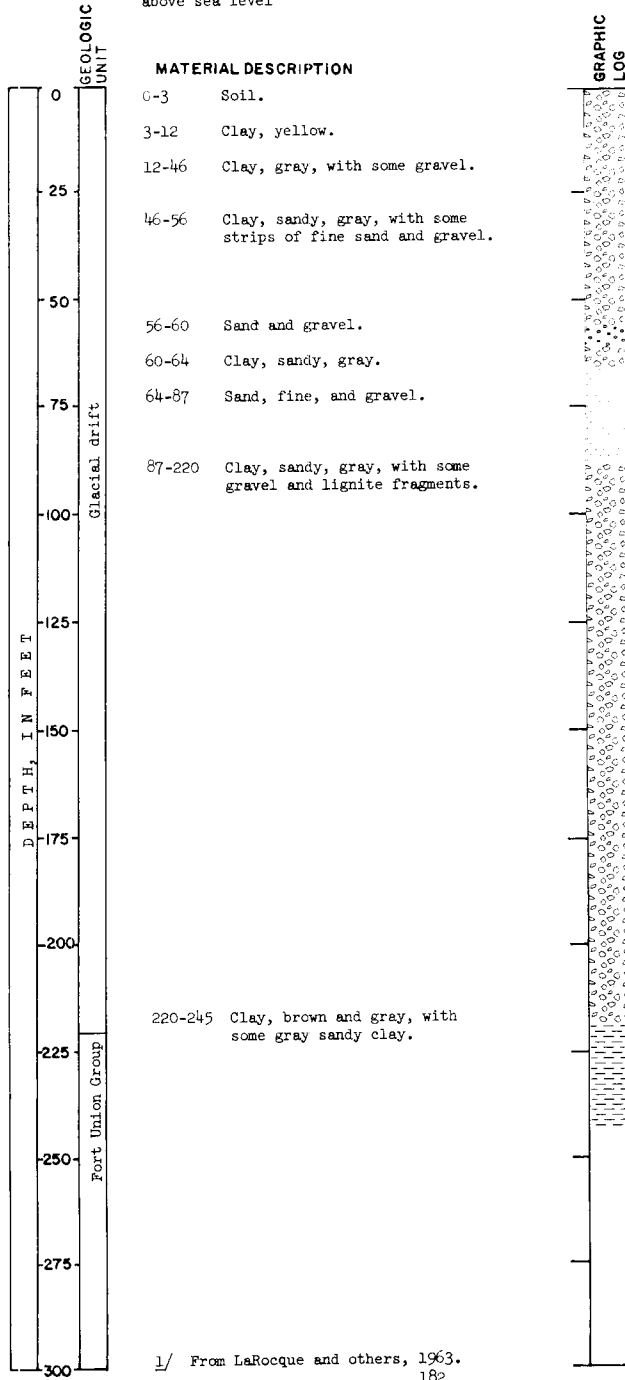
LOCATION: Ward County  
157-83-30bbb

ELEVATION: 1,760 feet  
above sea level

TEST HOLE  
U.S. Geol. Survey <sup>1/</sup>

DATE DRILLED: July 31, 1947

DEPTH: 245 feet



<sup>1/</sup> From LaRocque and others, 1963.  
182

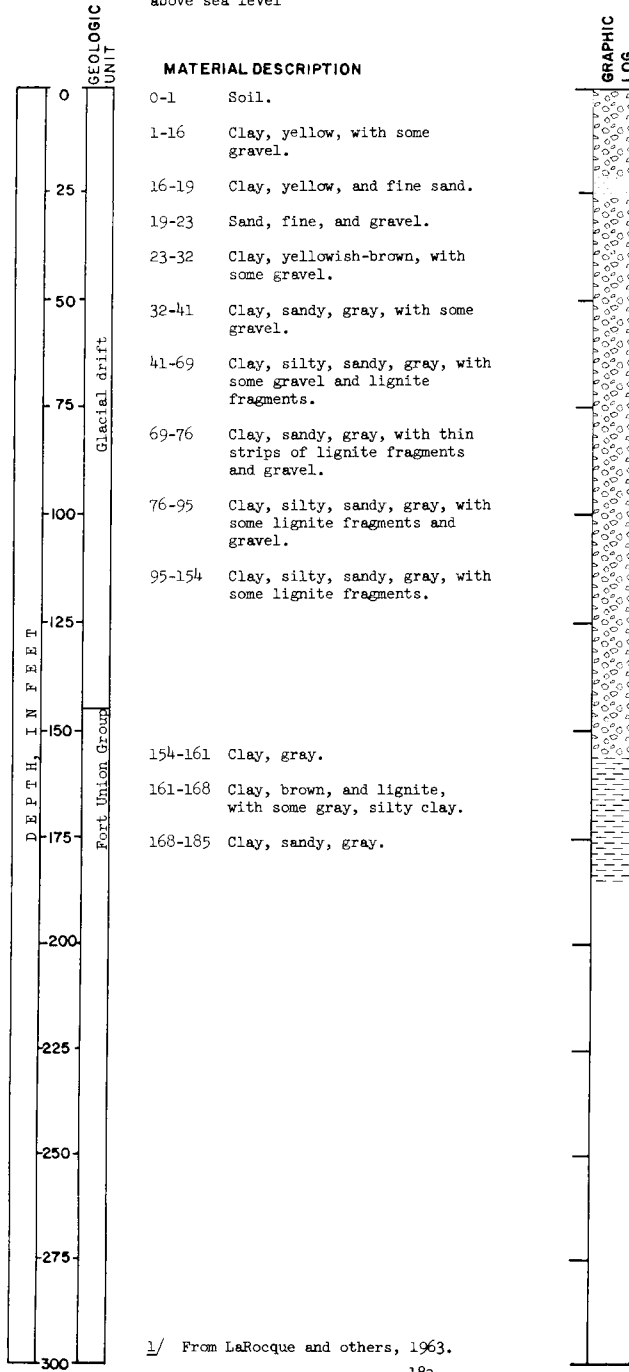
LOCATION: Ward County  
 157-84-35dc U.S. Geol. Survey <sup>1</sup>/<sub>2</sub>

ELEVATION: 1,730 feet  
 above sea level

**TEST HOLE**

DATE DRILLED: July 31, 1947

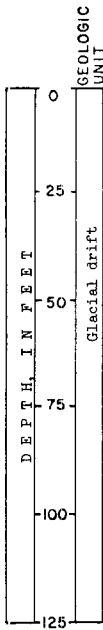
DEPTH: 185 feet



<sup>1</sup>/<sub>2</sub> From LaRocque and others, 1963.

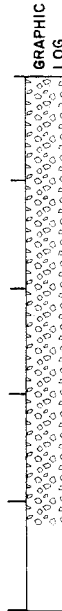
LOCATION: Ward County 157-86-5bb  
 TEST HOLE U.S. Air Force  
 ELEVATION: 1,990 feet above sea level

DATE DRILLED: 1961  
 DEPTH: 104 feet



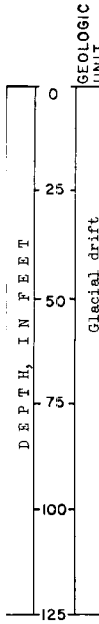
**MATERIAL DESCRIPTION**

0-34	Till, silty and sandy, brown.
34-44	Till, silty and sandy, dark-brown.
44-104	Till, silty and sandy, dark-gray.



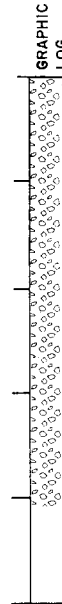
LOCATION: Ward County 157-86-25cc  
 TEST HOLE U.S. Air Force  
 ELEVATION: 2,144 feet above sea level

DATE DRILLED: 1961  
 DEPTH: 101 feet

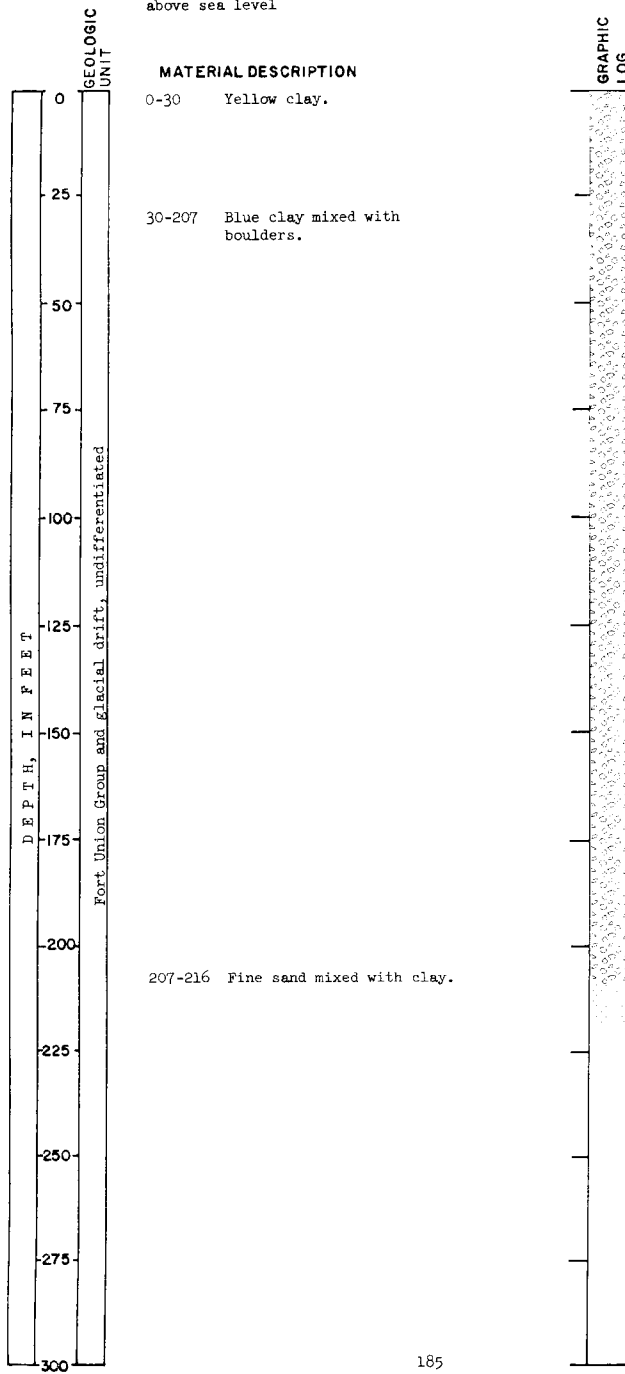


**MATERIAL DESCRIPTION**

0-23	Till, silty and sandy, brown to brown-gray.
23-37	Till, silty and sandy, dark-gray-brown.
37-44	Till, silty and sandy, dark-gray.
44-57	Till, silty and sandy, gray-brown.
57-101	Till, silty and sandy, dark-gray.



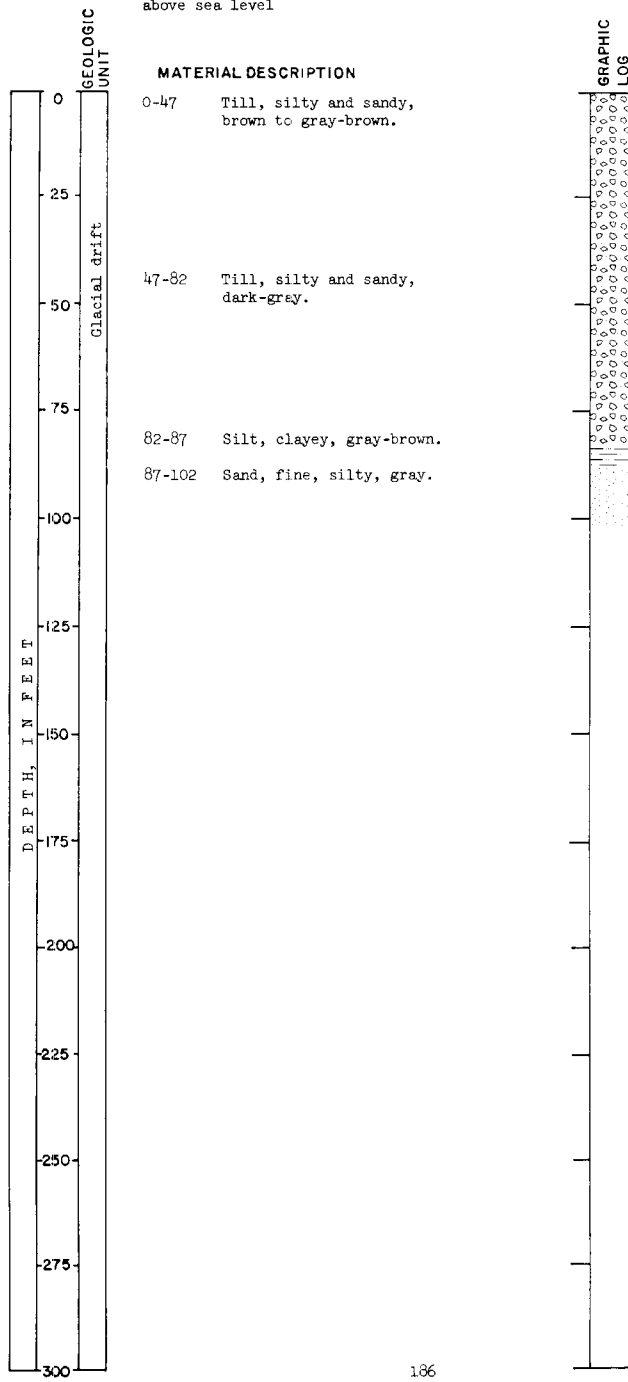
LOCATION: Ward County Great Northern Railway  
 157-86-30add well  
 DATE DRILLED: 1932  
 ELEVATION: 2,093 feet  
 above sea level DEPTH: 216 feet



LOCATION: Ward County  
157-87-22aa  
ELEVATION: 2,209 feet  
above sea level

TEST HOLE  
U.S. Air Force

DATE DRILLED: 1961  
DEPTH: 102 feet

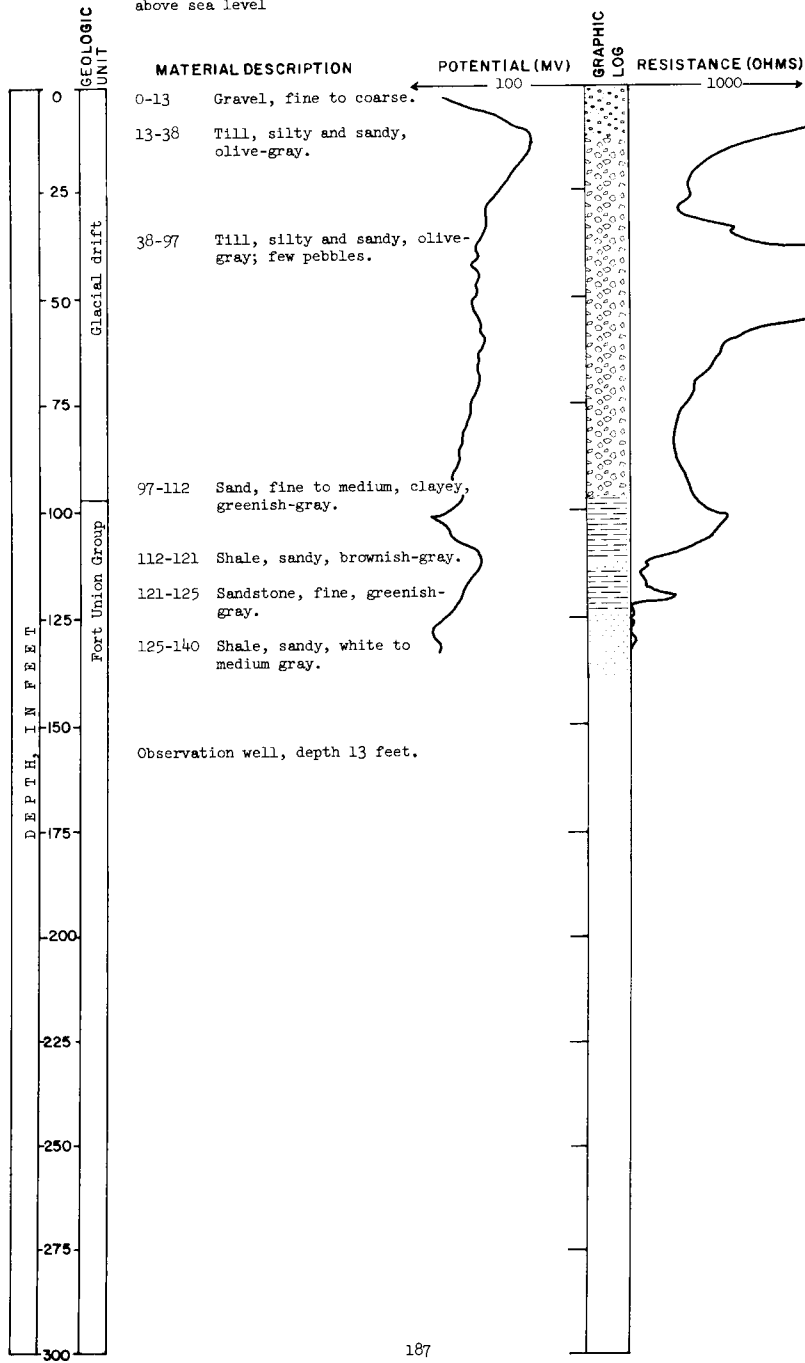


LOCATION: Renville County  
 158-81-36bbb  
 ELEVATION: 1,514 feet  
 above sea level

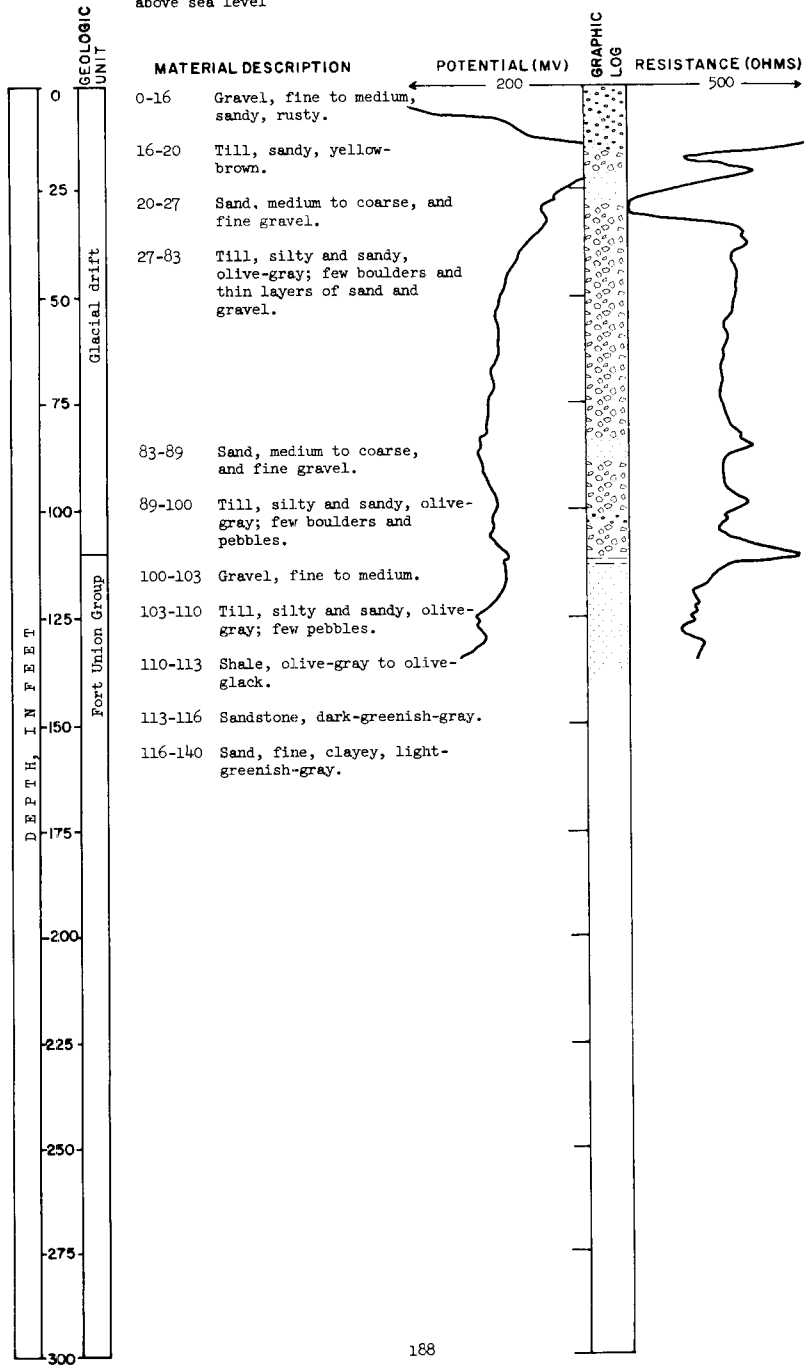
TEST HOLE 3242

DATE DRILLED: July 29, 1965

DEPTH: 140 feet



LOCATION: Renville County TEST HOLE 3250  
 158-82-2aab DATE DRILLED: August 5, 1965  
 ELEVATION: 1,530 feet above sea level DEPTH: 140 feet



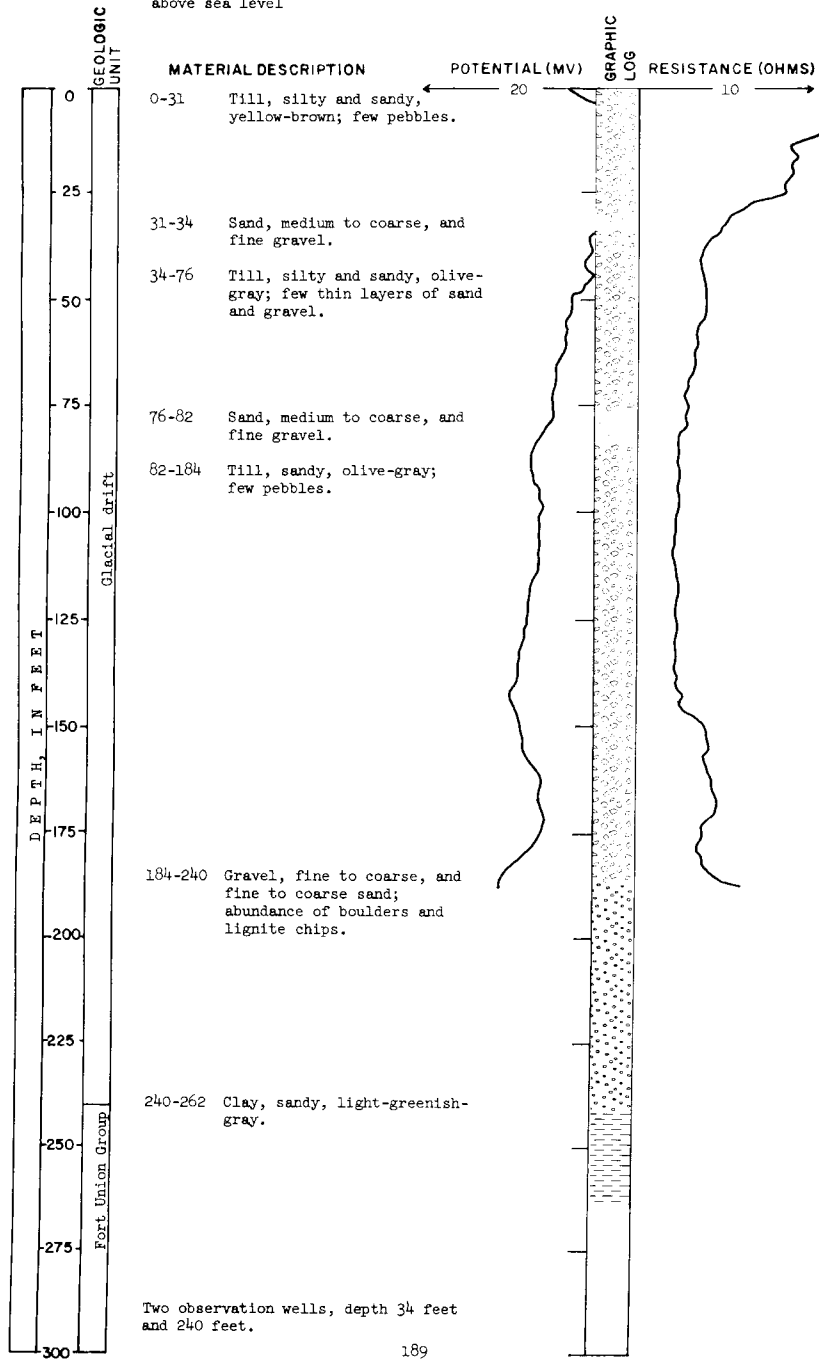
LOCATION: Remville County  
158-32-10aad

ELEVATION: 1,550 feet  
above sea level

TEST HOLE 2317

DATE DRILLED: October 19, 1964

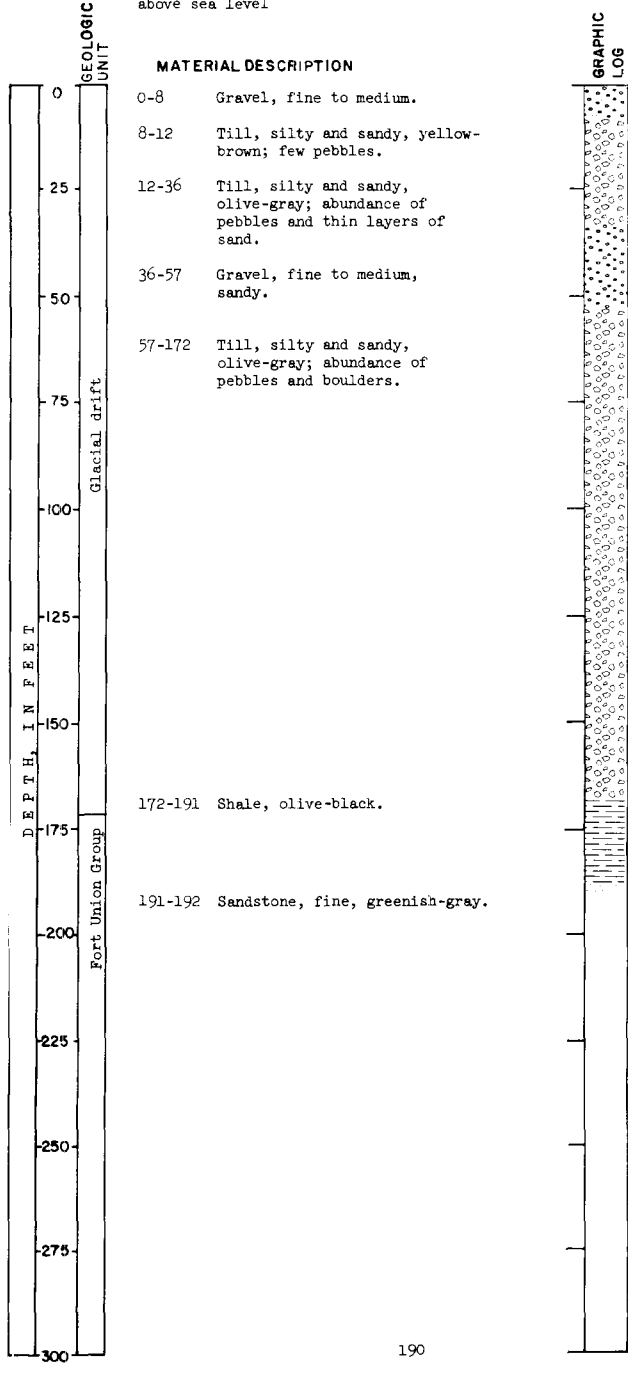
DEPTH: 262 feet





LOCATION: Renville County TEST HOLE 3249  
 158-82-10bbb  
 ELEVATION: 1,550 feet  
 above sea level

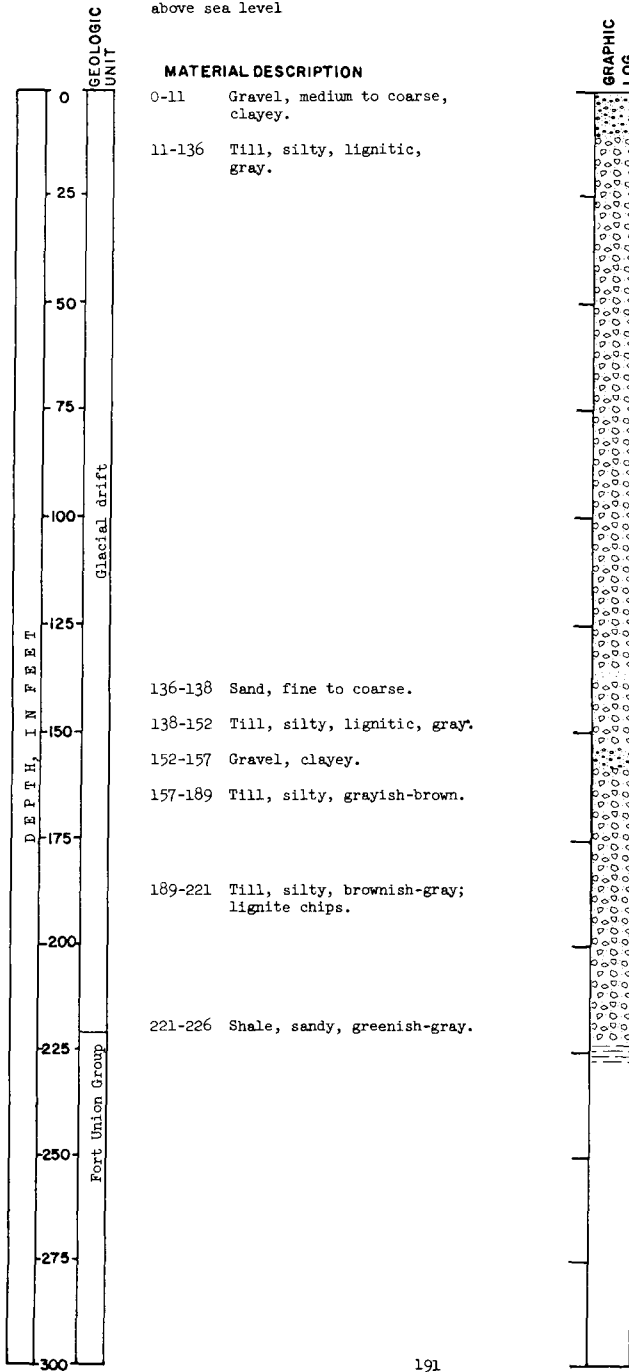
DATE DRILLED: August 4, 1965  
 DEPTH: 192 feet



LOCATION: Renville County North Dakota State  
 158-82-14abc Water Commission  
 test hole

ELEVATION: 1,565 feet  
 above sea level

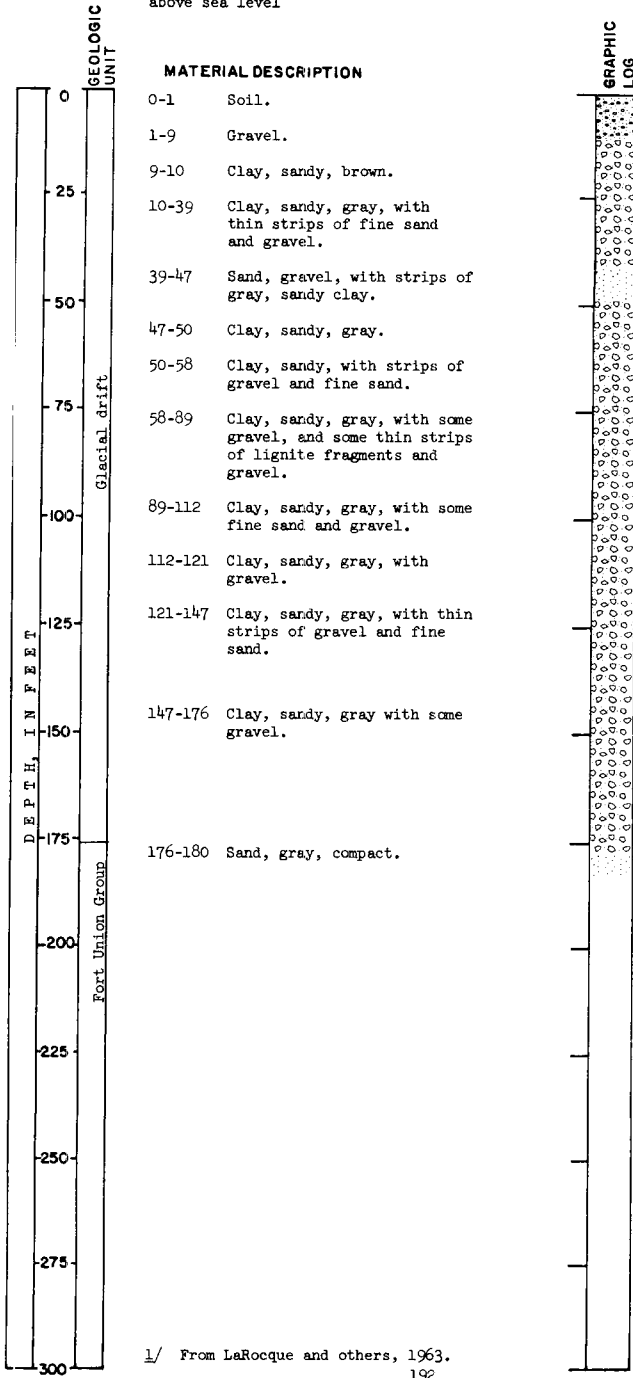
DATE DRILLED: March 11, 1961  
 DEPTH: 226 feet



LOCATION: Renville County  
 158-82-17ccc U.S. Geol. Survey <sup>1/</sup>

ELEVATION: 1,579 feet  
 above sea level

TEST HOLE  
 DATE DRILLED: 1947  
 DEPTH: 180 feet



<sup>1/</sup> From LaRocque and others, 1963.  
 192

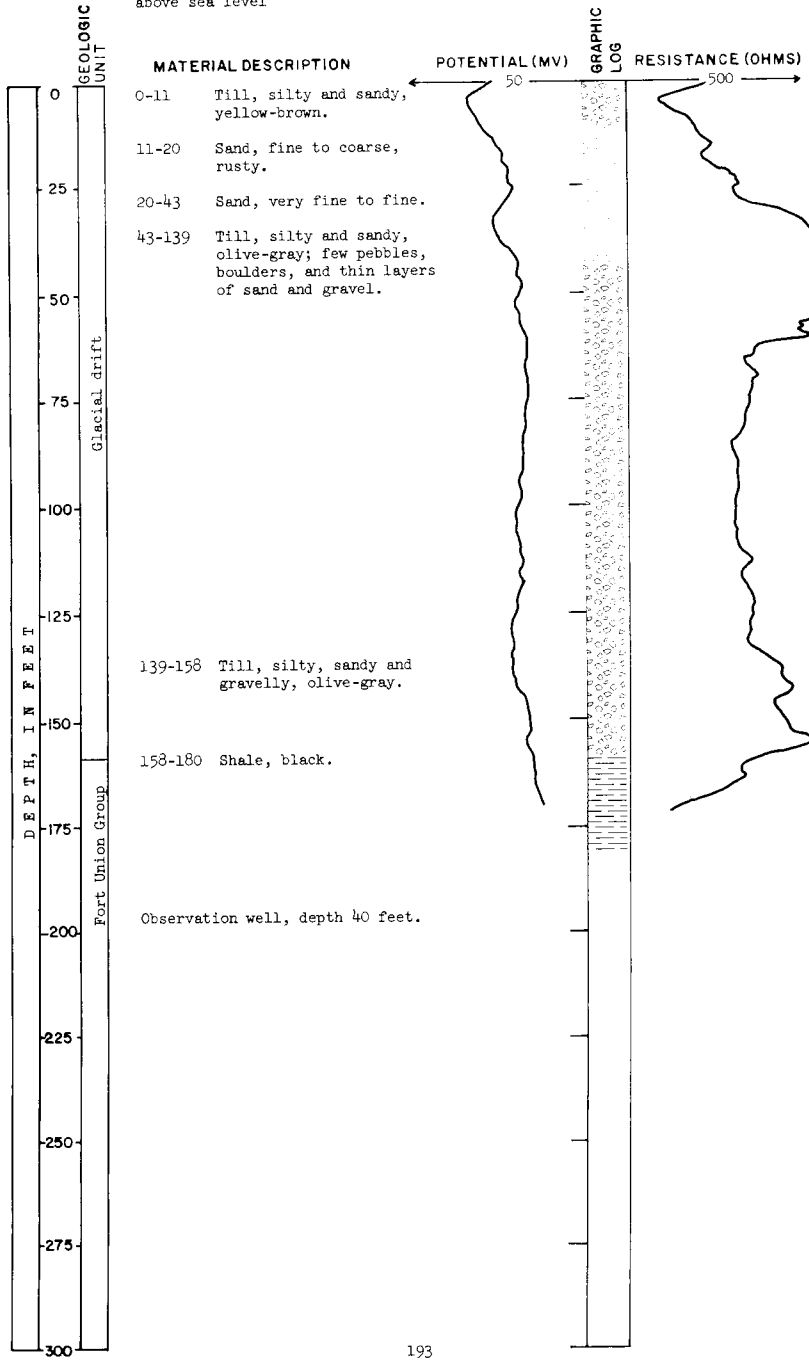
LOCATION: Renville County  
158-82-26ccc

ELEVATION: 1,550 feet  
above sea level

TEST HOLE 3244

DATE DRILLED: August 2, 1965

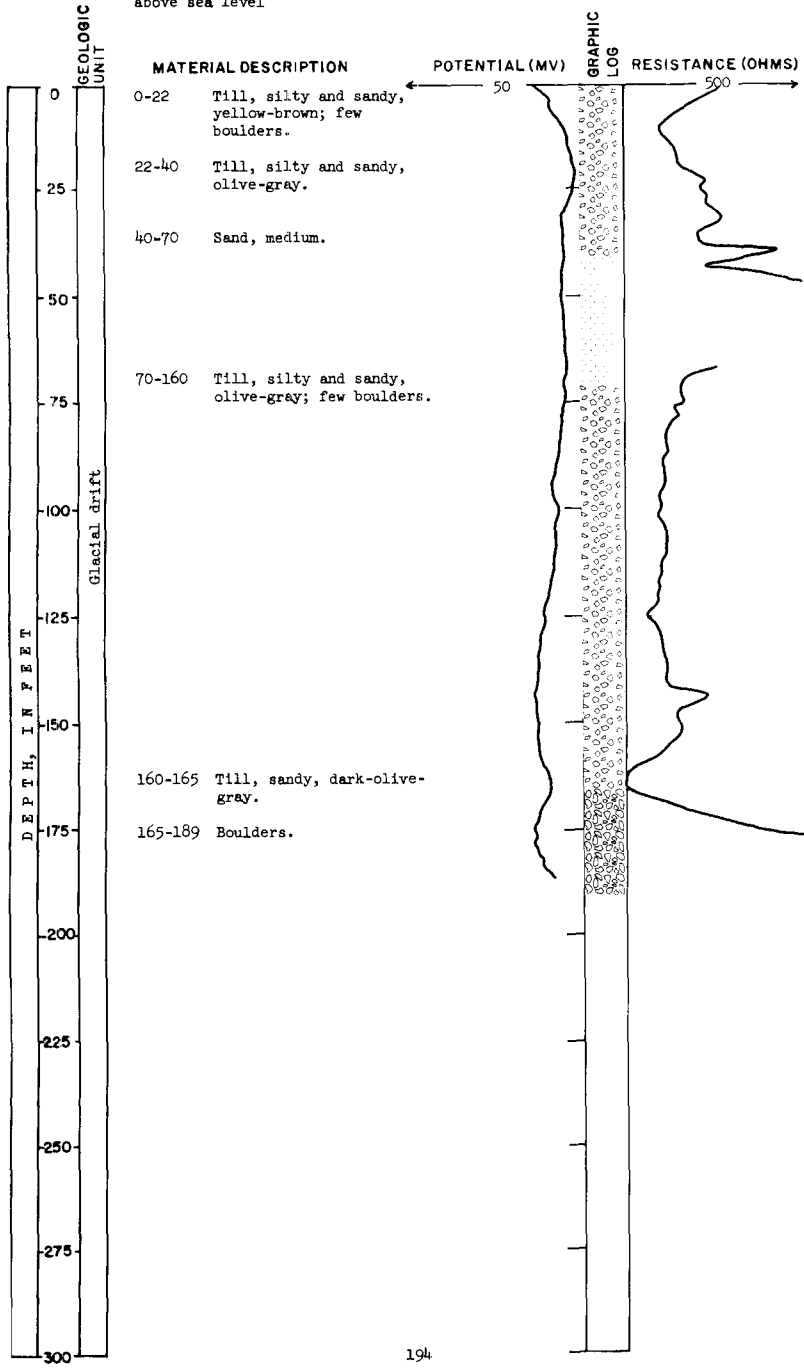
DEPTH: 180 feet



LOCATION: Renville County  
 158-82-27aaa  
 ELEVATION: 1,570 feet  
 above sea level

TEST HOLE 3243

DATE DRILLED: July 30, 1965  
 DEPTH: 187 feet



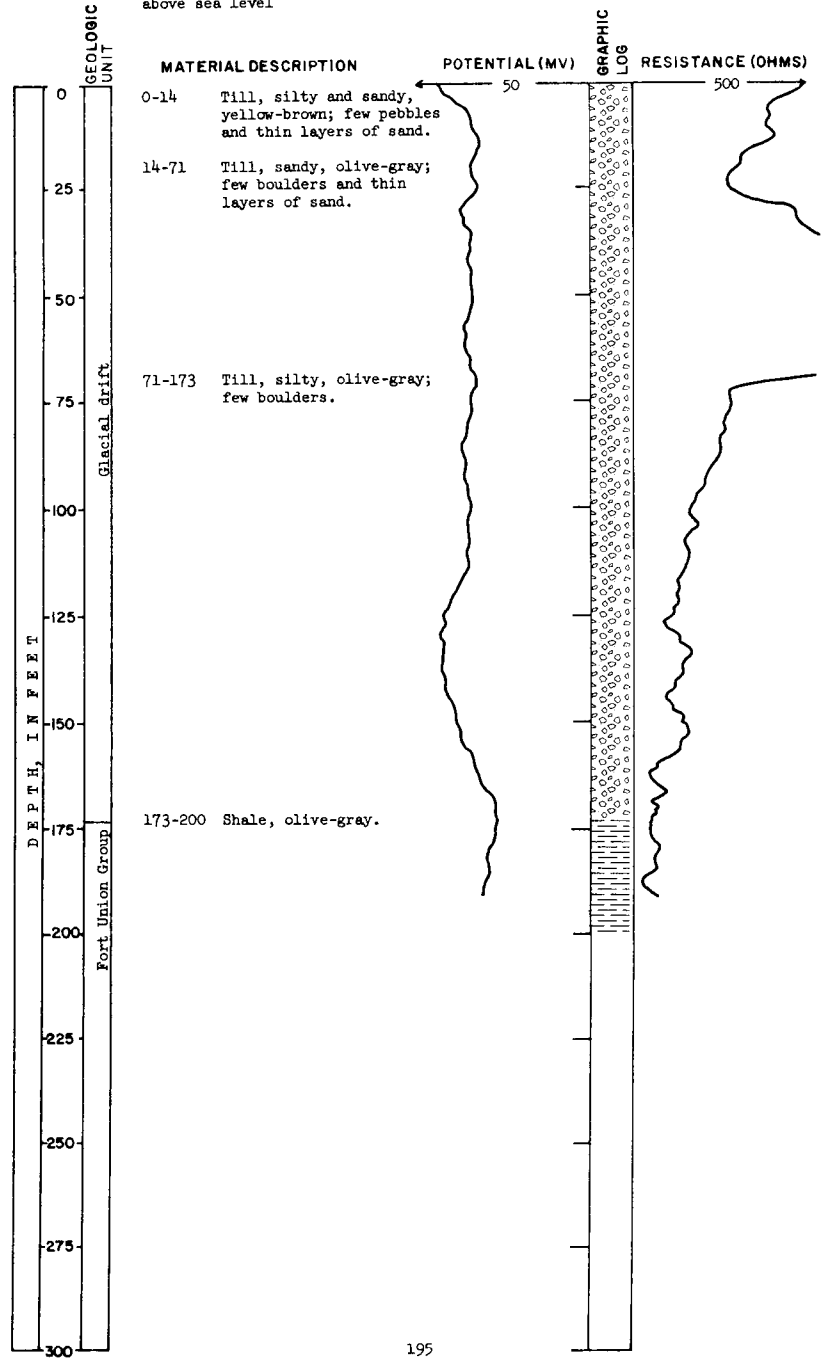
LOCATION: Renville County  
158-82-34ccc

ELEVATION: 1,611 feet  
above sea level

TEST HOLE 3245

DATE DRILLED: August 3, 1965

DEPTH: 200 feet



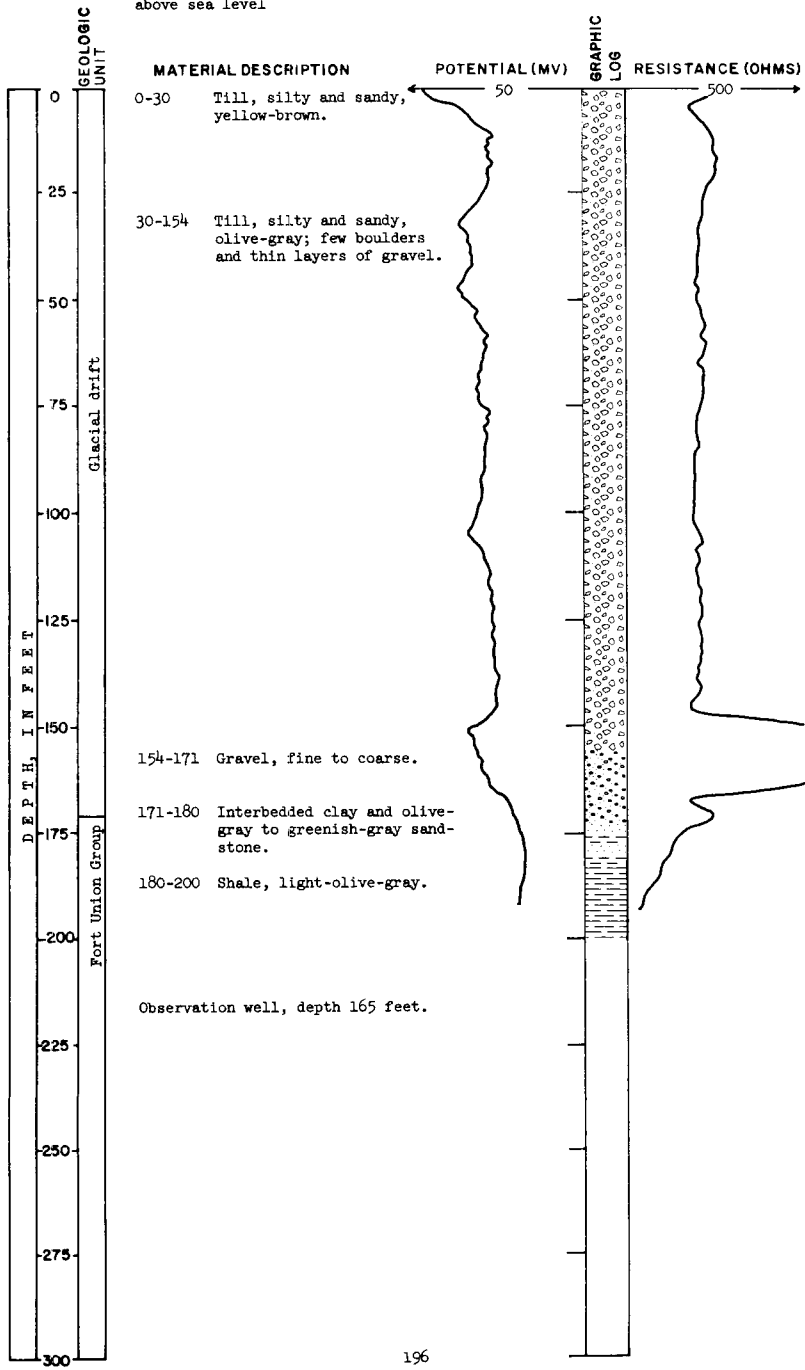
LOCATION: Renville County  
158-82-34ccd

ELEVATION: 1,610 feet  
above sea level

TEST HOLE 3247

DATE DRILLED: August 4, 1965

DEPTH: 200 feet



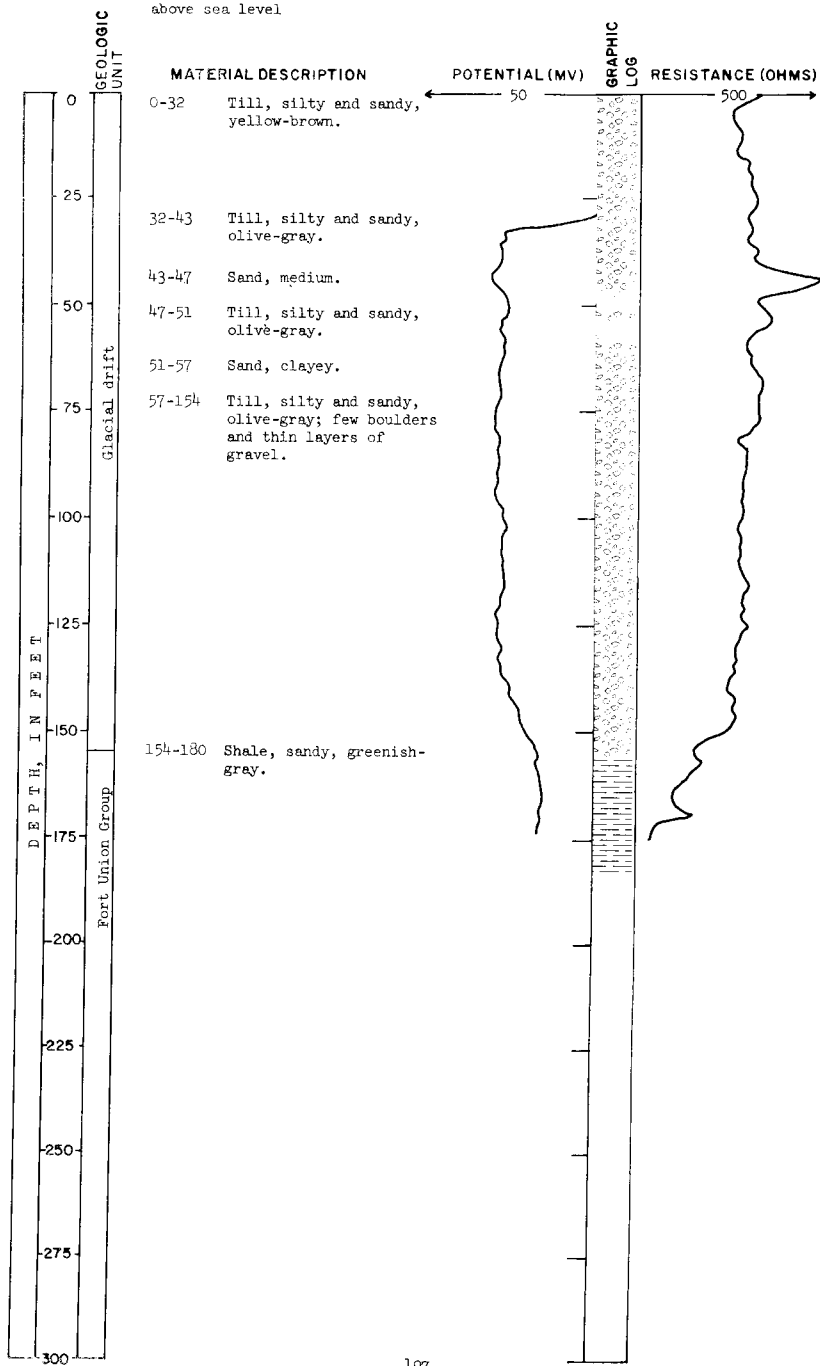
LOCATION: Renville County  
158-82-35ccc

TEST HOLE 3248

DATE DRILLED: August 4, 1965

ELEVATION: 1,593 feet  
above sea level

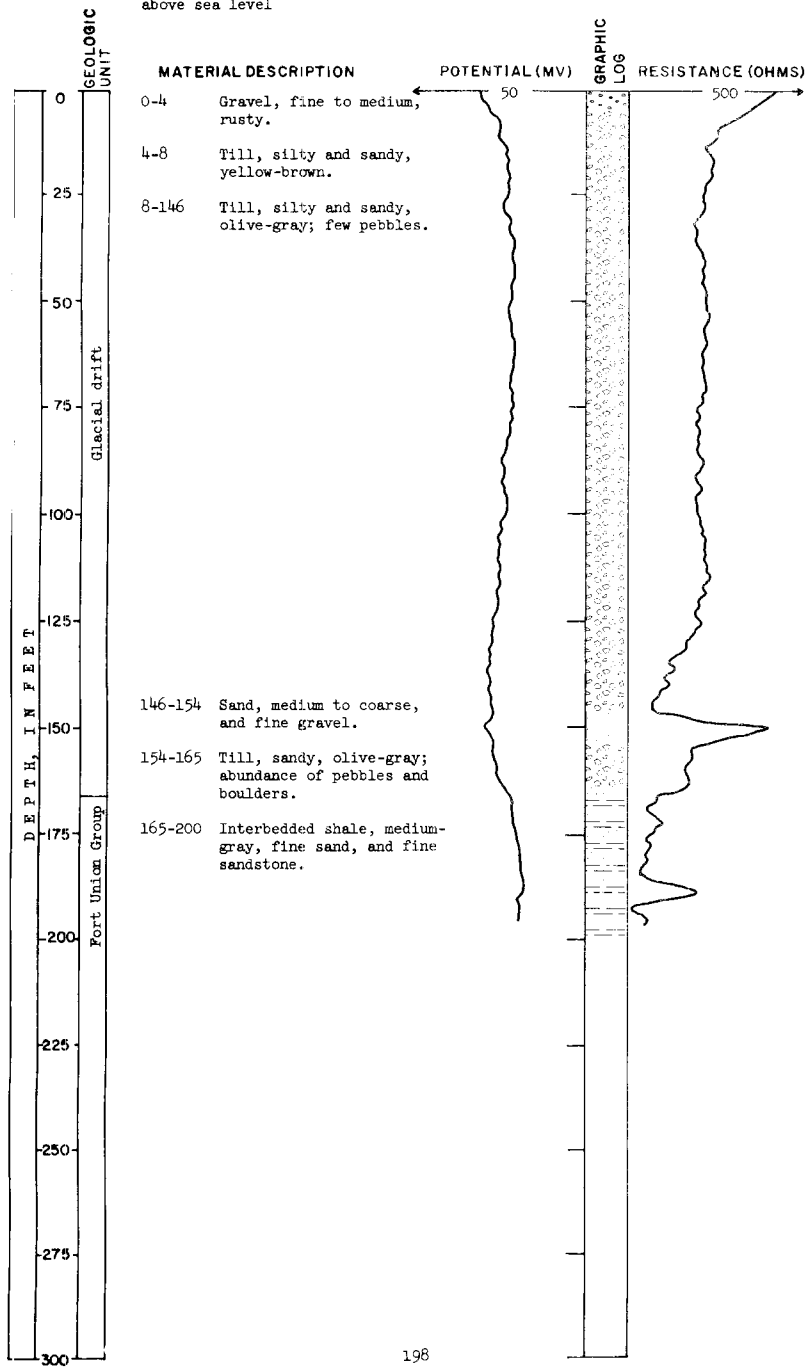
DEPTH: 180 feet





LOCATION: Renville County TEST HOLE 3251  
 158-83-17dcd  
 ELEVATION: 1,638 feet  
 above sea level

DATE DRILLED: August 5, 1965  
 DEPTH: 200 feet

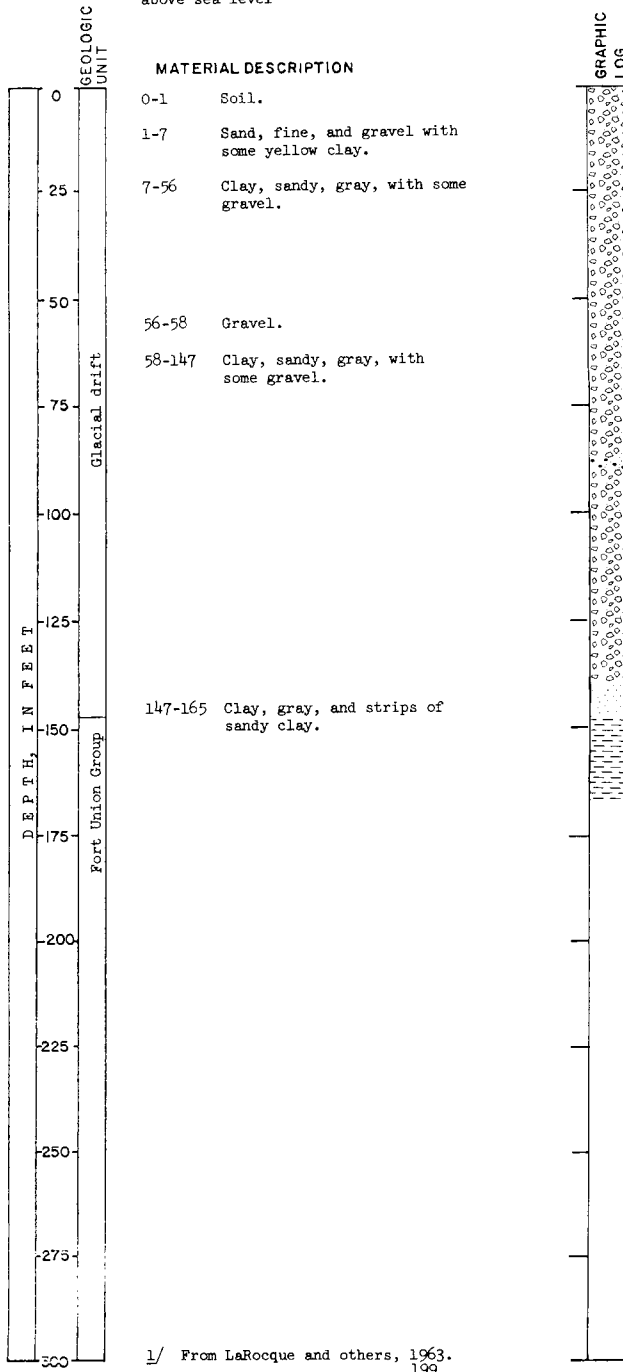


LOCATION: Renville County U.S. Geol. Survey<sup>1/</sup>  
 158-83-35ad TEST HOLE

ELEVATION: 1,610 feet above sea level

DATE DRILLED: 1947

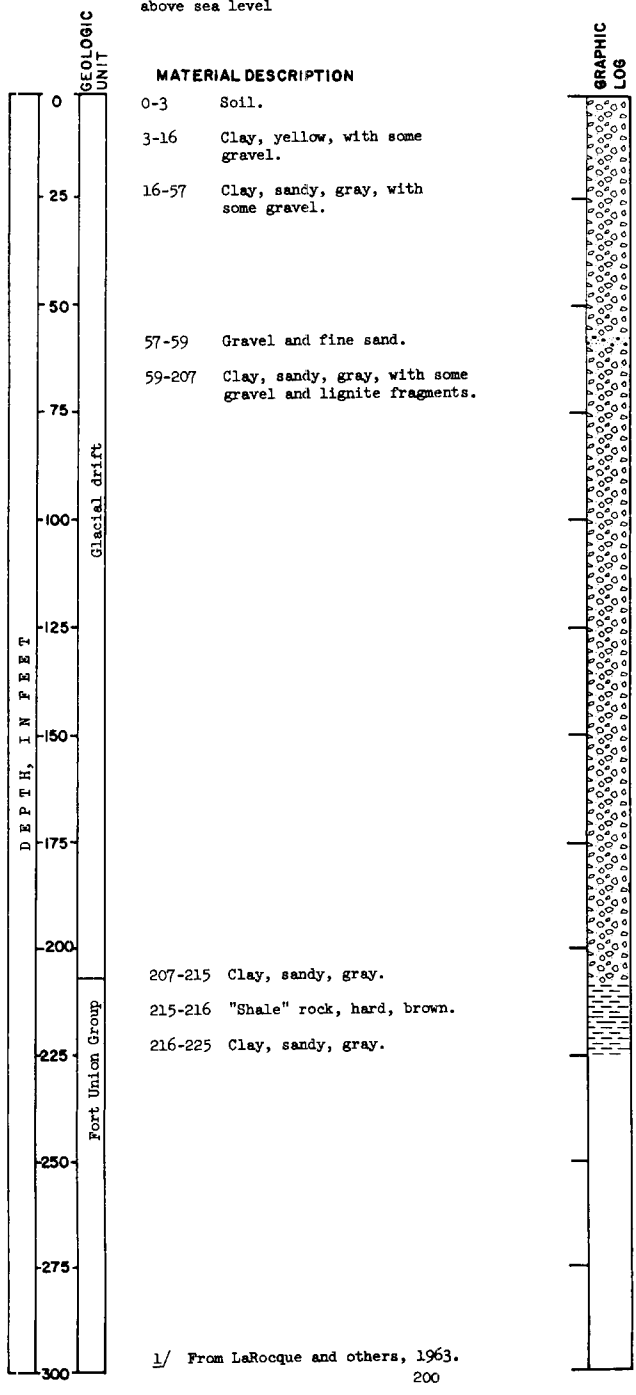
DEPTH: 165 feet



<sup>1/</sup> From LaRocque and others, 1963.  
199

**LOCATION:** Renville County  
 158-84-3aaa U.S. Geol. Survey<sup>1/</sup>  
**ELEVATION:** 1,695 feet  
 above sea level

**TEST HOLE**  
**DATE DRILLED:** 1947  
**DEPTH:** 225 feet



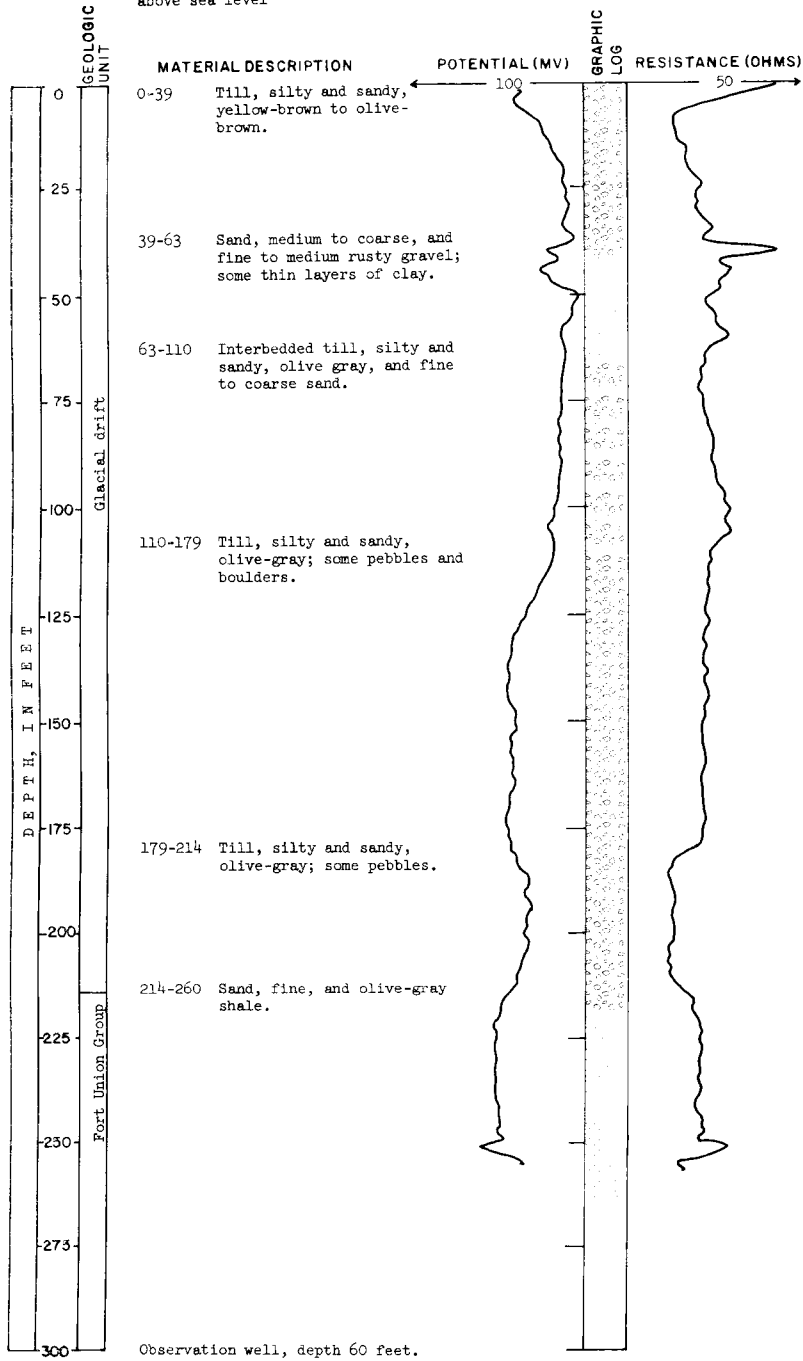
<sup>1/</sup> From LaRocque and others, 1963.  
 200

LOCATION: Renville County  
 158-86-1aaa  
 ELEVATION: 1,837 feet  
 above sea level

TEST HOLE 3330

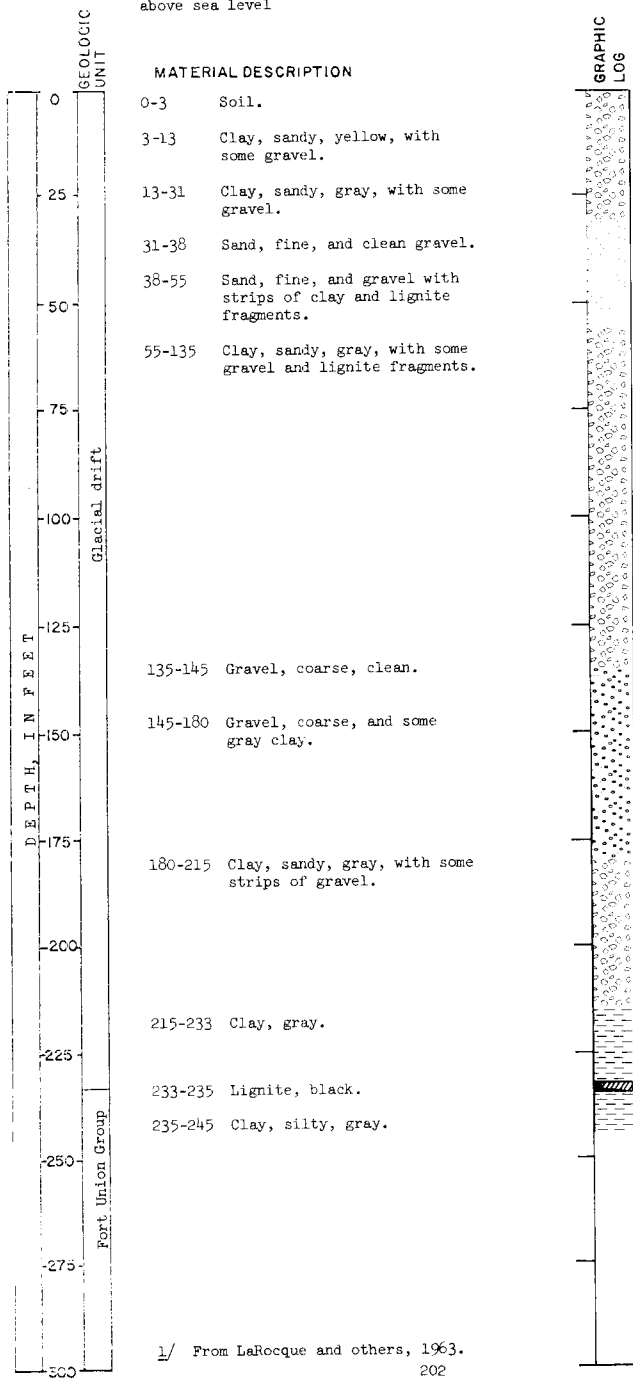
DATE DRILLED: June 6, 1966

DEPTH: 260 feet



LOCATION: Renville County TEST HOLE  
 158-86-11bb U.S. Geol. Survey<sup>1/</sup>  
 ELEVATION: 1,868 feet  
 above sea level

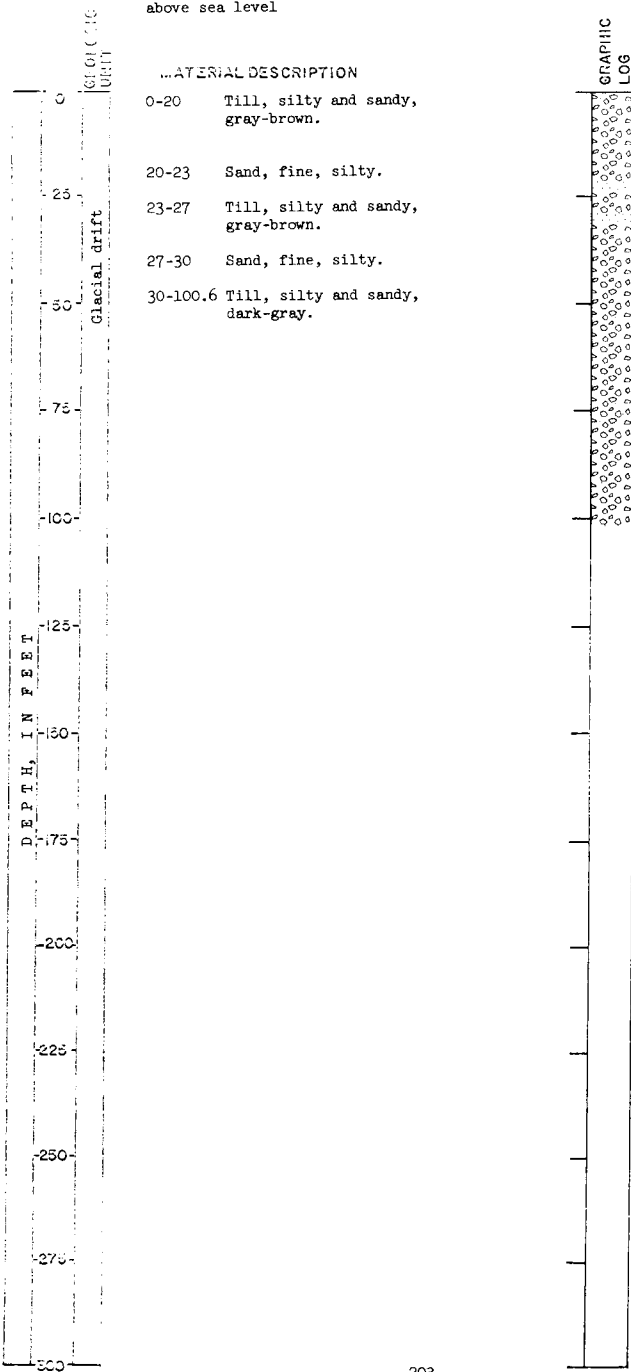
DATE DRILLED: 1947  
 DEPTH: 245 feet



<sup>1/</sup> From LaRocque and others, 1963.  
 202

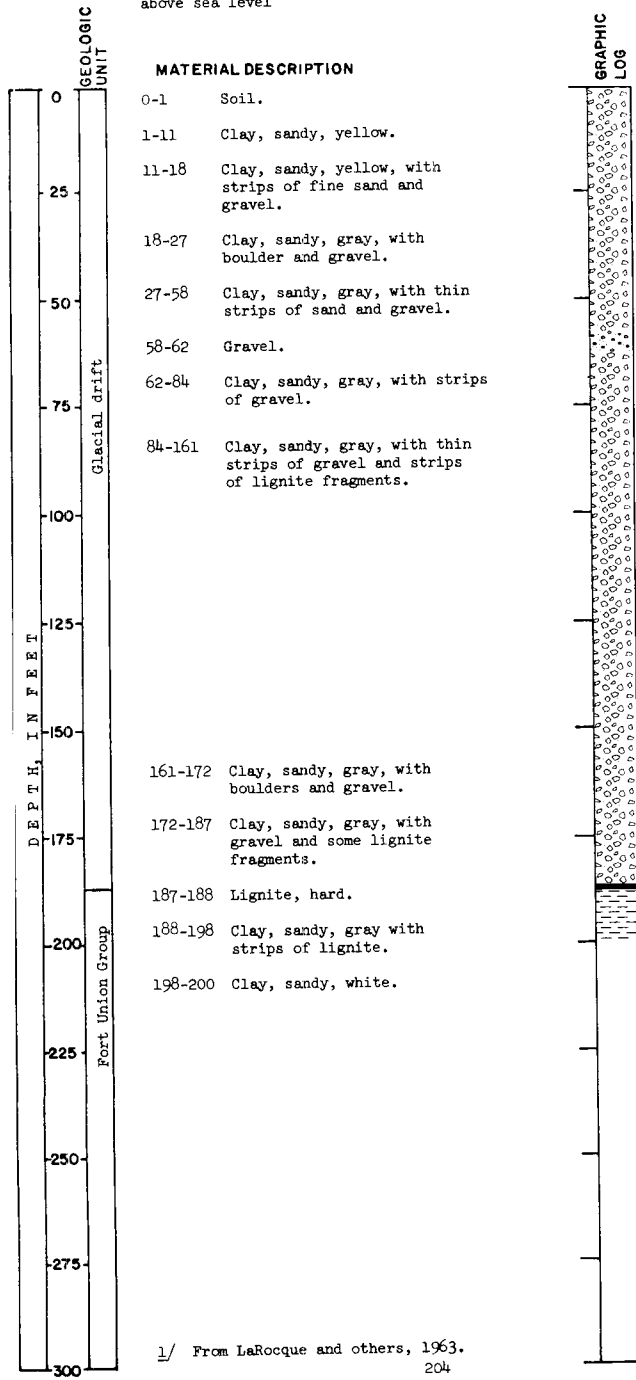
LOCATION: Renville County TEST HOLE  
 158-86-14cc U. S. Air Force  
 ELEVATION: 1,864 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 100.6 feet



LOCATION: Renville County TEST HOLE  
 158-86-20aaa U.S. Geol. Survey<sup>1/</sup>  
 ELEVATION: 1,916 feet  
 above sea level

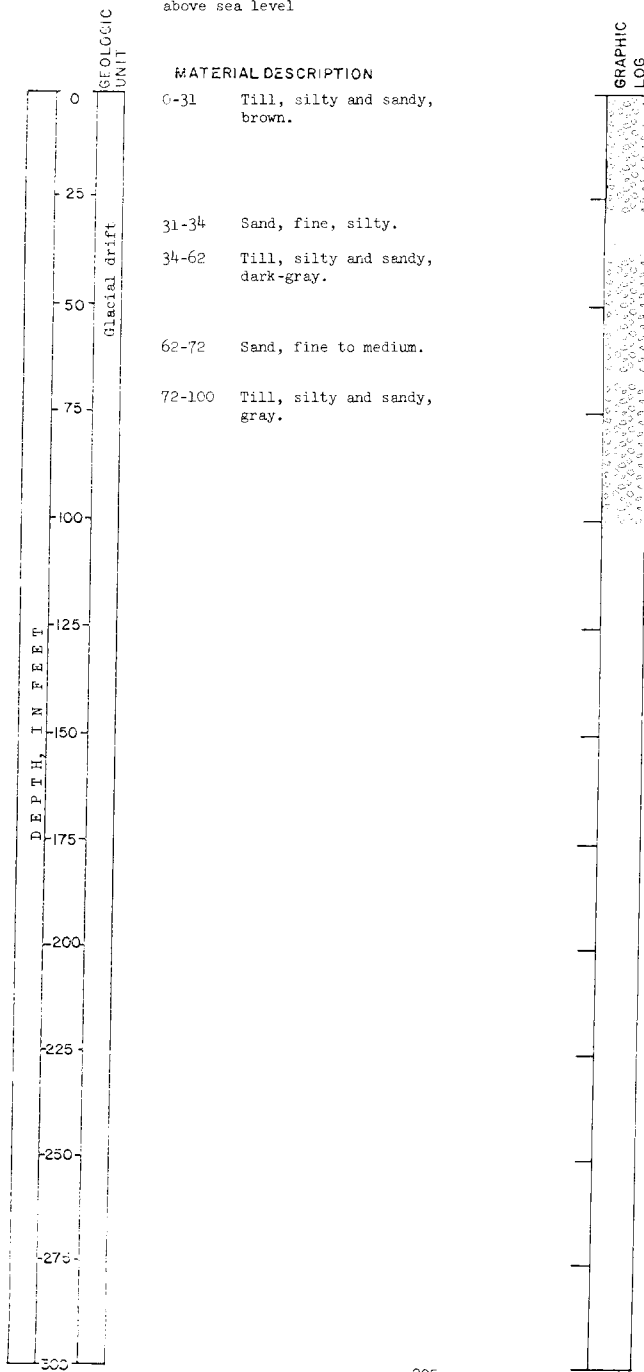
DATE DRILLED: 1947  
 DEPTH: 200 feet



LOCATION: Ward County  
 158-87-22cc  
 ELEVATION: 2,029 feet  
 above sea level

TEST HOLE  
 U.S. Air Force

DATE DRILLED: 1961  
 DEPTH: 100 feet





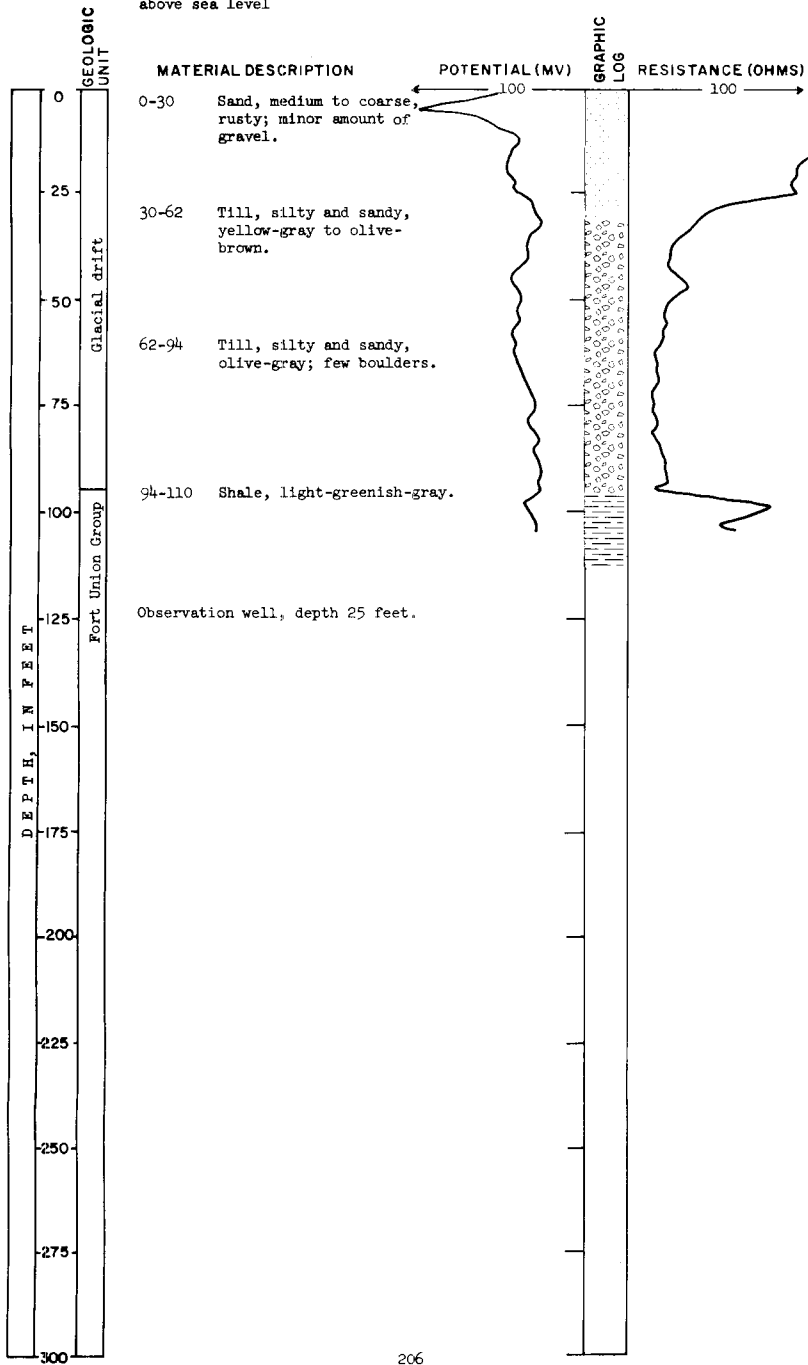
LOCATION: Renville County  
158-86-30add

TEST HOLE 3331

DATE DRILLED: June 7, 1966

ELEVATION: 1,730 feet  
above sea level

DEPTH: 110 feet



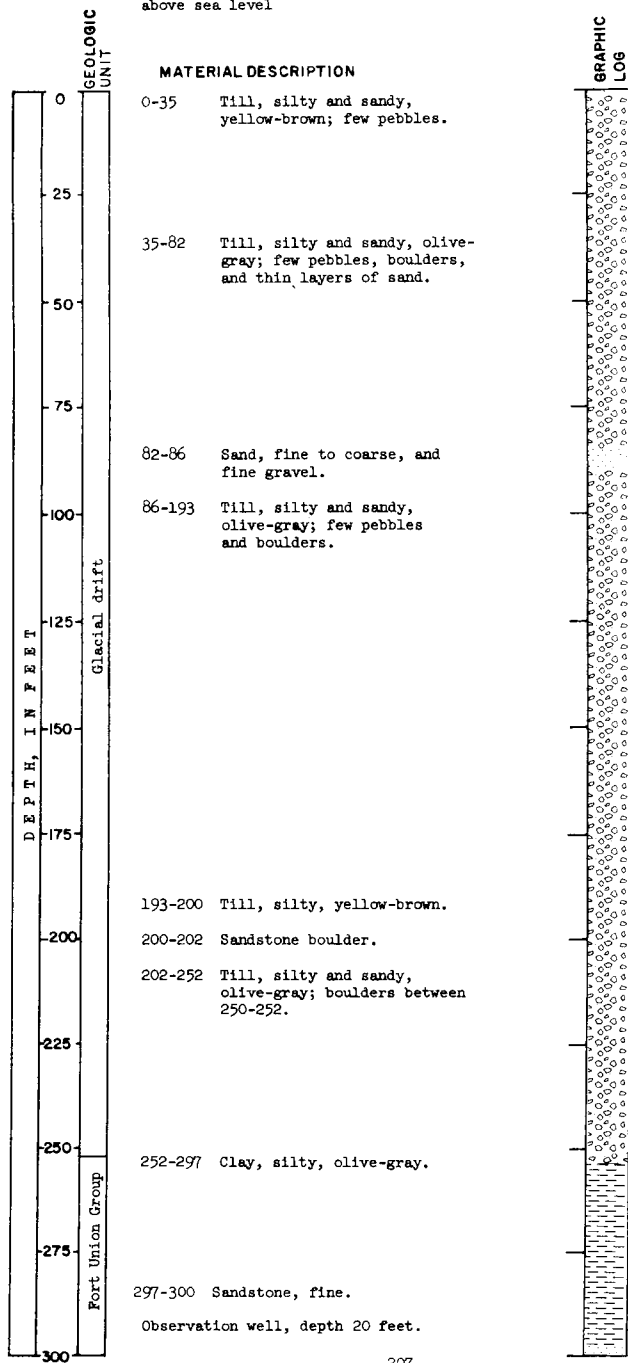
LOCATION: Renville County  
159-84-6bbb

TEST HOLE 2318

DATE DRILLED: October 20, 1964

ELEVATION: 1,729 feet  
above sea level

DEPTH: 300 feet



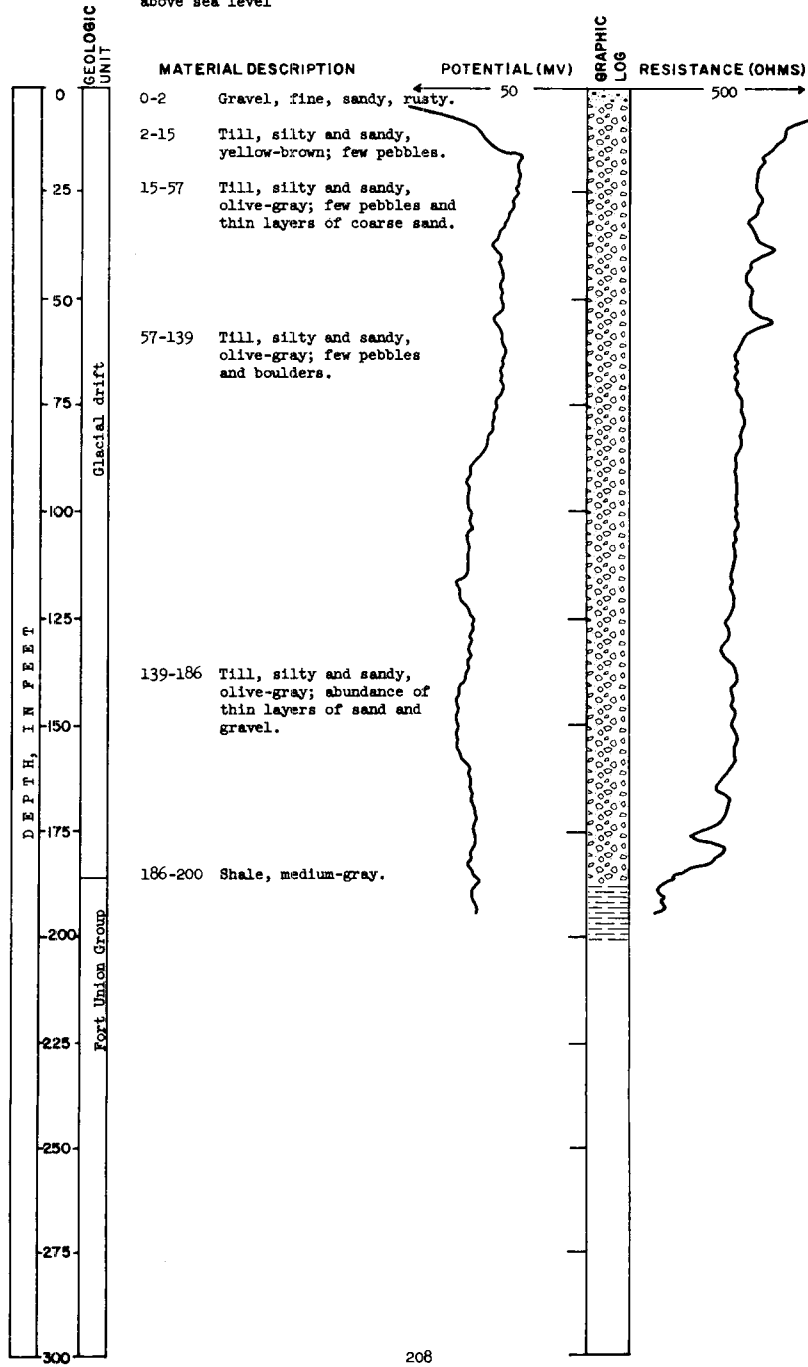
LOCATION: Renville County  
159-84-24aaa

ELEVATION: 1,632 feet  
above sea level

TEST HOLE 3252

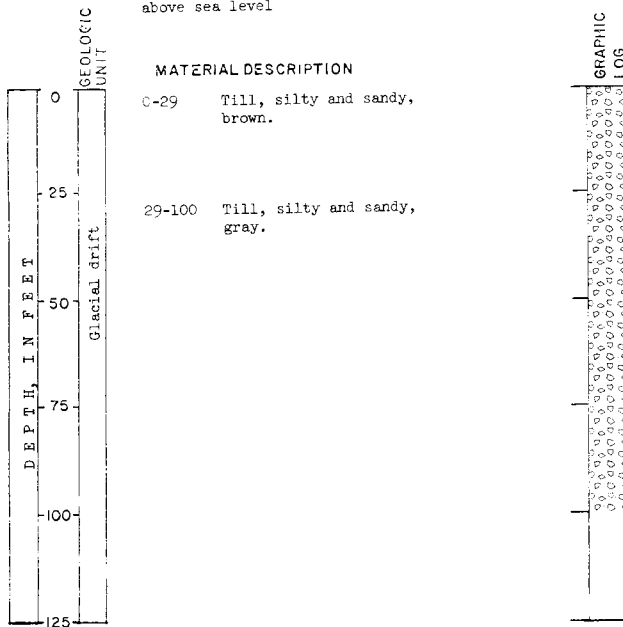
DATE DRILLED: August 5, 1965

DEPTH: 200 feet



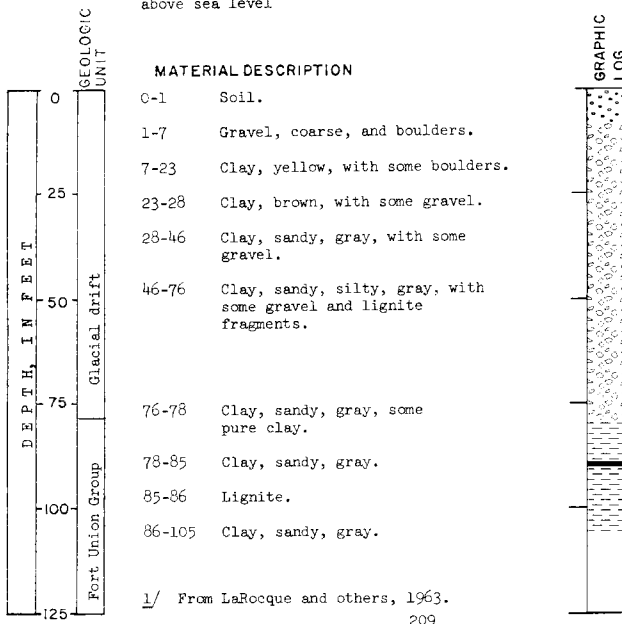
LOCATION: Renville County TEST HOLE  
 159-85-1cc U.S. Air Force  
 ELEVATION: 1,725 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 100 feet



LOCATION: Renville County TEST HOLE  
 159-85-10ac U.S. Geol. Survey<sup>1/</sup>  
 ELEVATION: 1,712 feet  
 above sea level

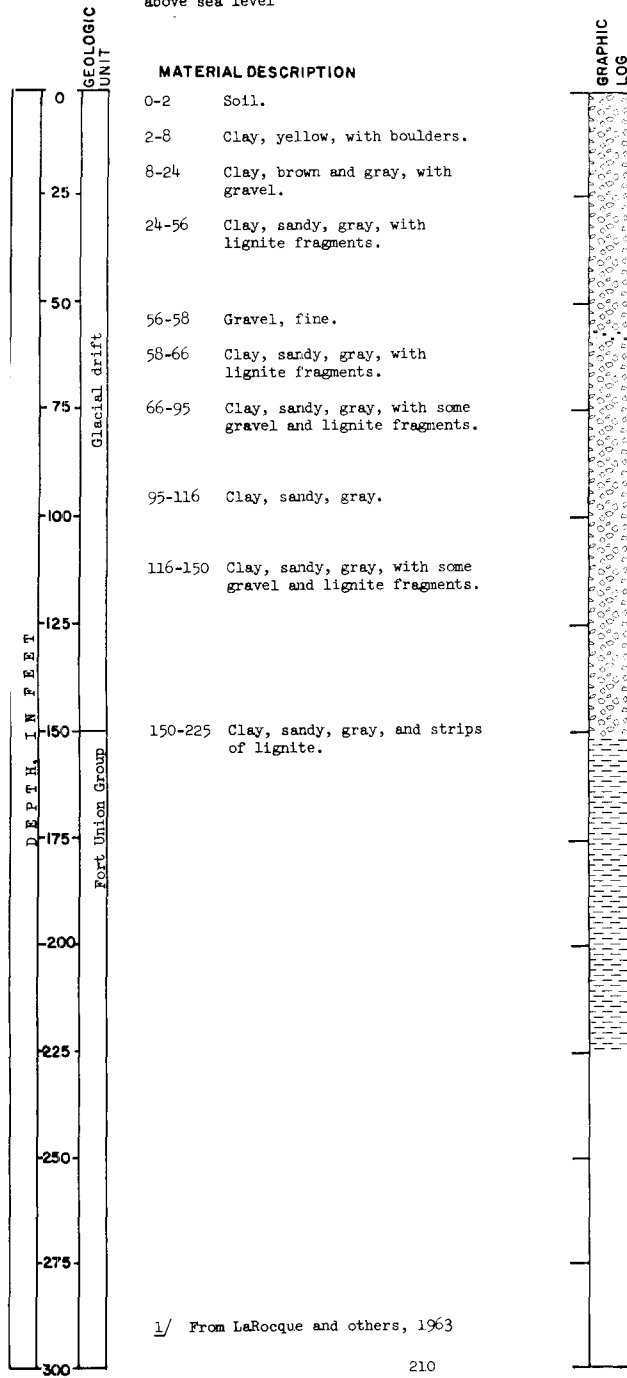
DATE DRILLED: 1947  
 DEPTH: 105 feet



<sup>1/</sup> From LaRocque and others, 1963.

LOCATION: Renville County TEST HOLE  
 159-85-20ccc U.S. Geol. Survey<sup>1/</sup>  
 ELEVATION: 1,738 feet  
 above sea level

DATE DRILLED: 1947  
 DEPTH: 225 feet

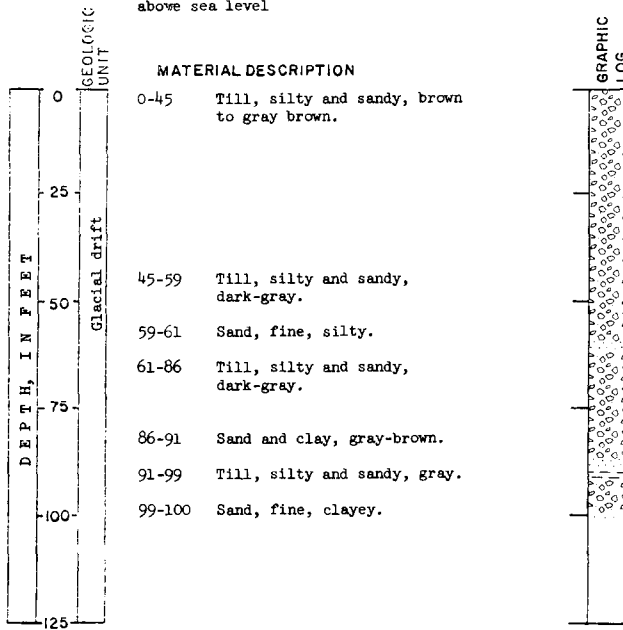


<sup>1/</sup> From LaRocque and others, 1963

LOCATION: Renville County TEST HOLE  
 159-86-5cc U.S. Air Force

ELEVATION: 1,880 feet  
 above sea level

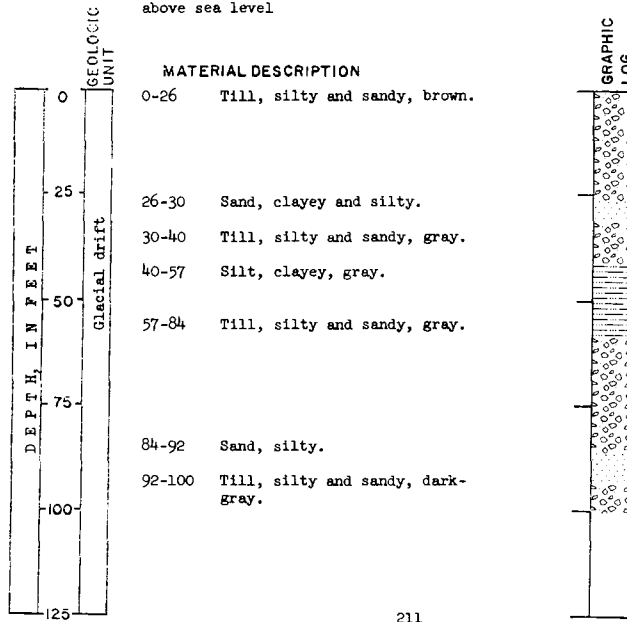
DATE DRILLED: 1961  
 DEPTH: 100 feet



LOCATION: Renville County TEST HOLE  
 159-86-19cc U.S. Air Force

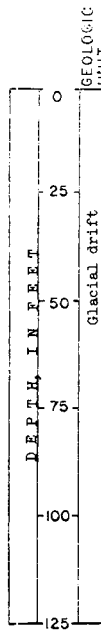
ELEVATION: 1,828 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 100 feet



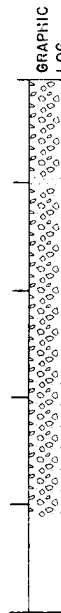
LOCATION: Ward County TEST HOLE  
 159-87-5cc U.S. Air Force  
 ELEVATION: 1,922 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 102 feet



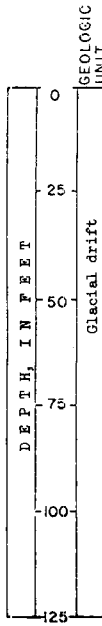
MATERIAL DESCRIPTION

0-22	Till, silty and sandy, brown.
22-25	Sand, medium to coarse.
25-102	Till, silty and sandy, gray to dark-gray.



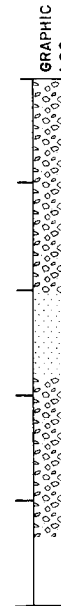
LOCATION: Ward County TEST HOLE  
 159-87-36dd U.S. Air Force  
 ELEVATION: 1,945 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 106 feet



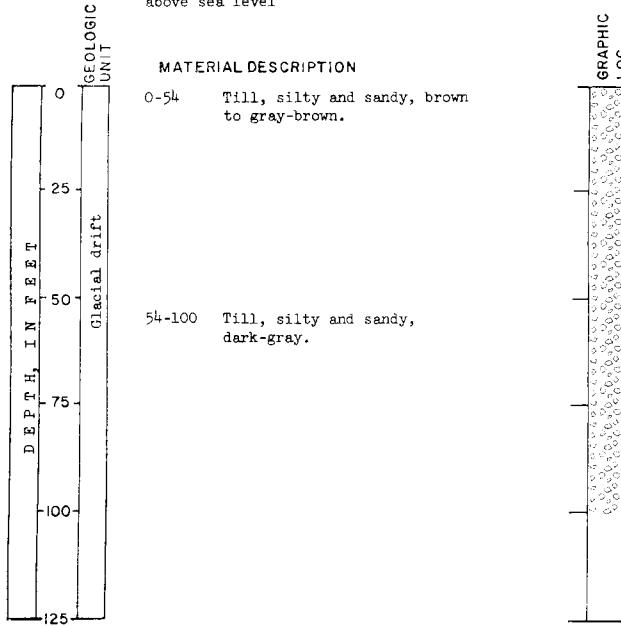
MATERIAL DESCRIPTION

0-49	Till, silty and sandy, brown to gray-brown.
49-68	Sand, fine, clayey.
68-106	Till, silty and sandy, dark-gray.



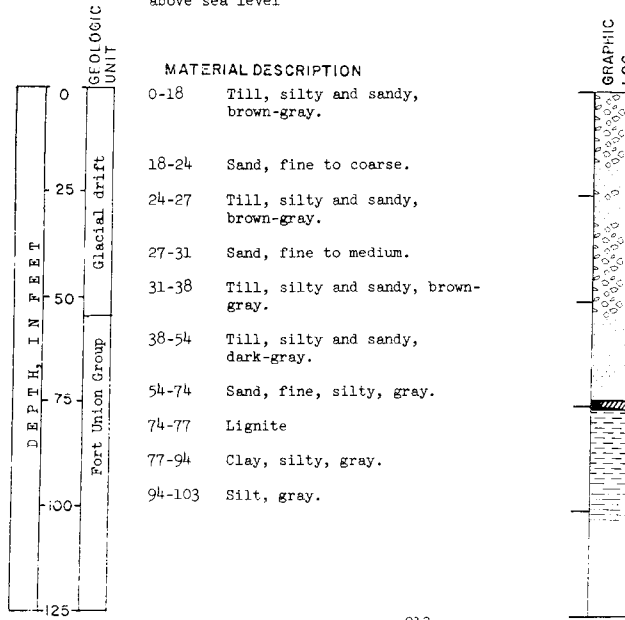
LOCATION: Ward County 159-88-35bb  
 TEST HOLE U.S. Air Force  
 ELEVATION: 2,209 feet above sea level

DATE DRILLED: 1961  
 DEPTH: 100 feet



LOCATION: Ward County 159-89-1dd  
 TEST HOLE U.S. Air Force  
 ELEVATION: 2,042 feet above sea level

DATE DRILLED: 1961  
 DEPTH: 103 feet





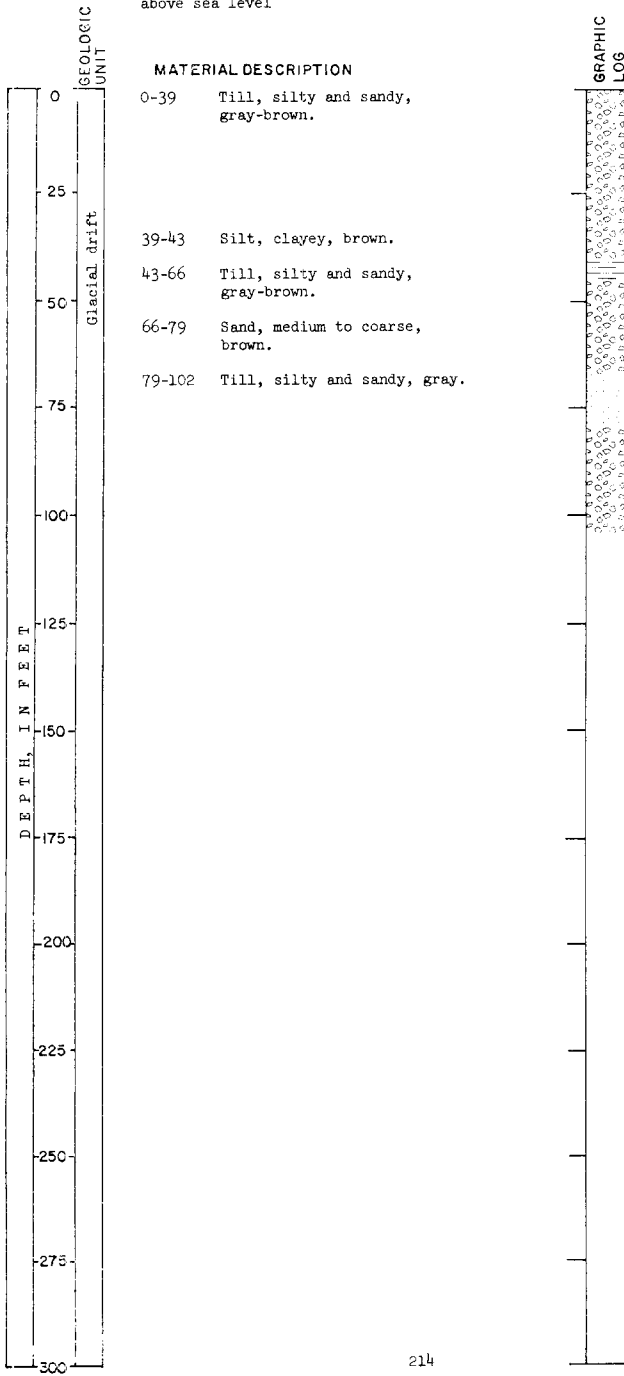
LOCATION: Ward County  
 159-89-8bb

TEST HOLE  
 U.S. Air Force

ELEVATION: 2,166 feet  
 above sea level

DATE DRILLED: 1961

DEPTH: 102 feet



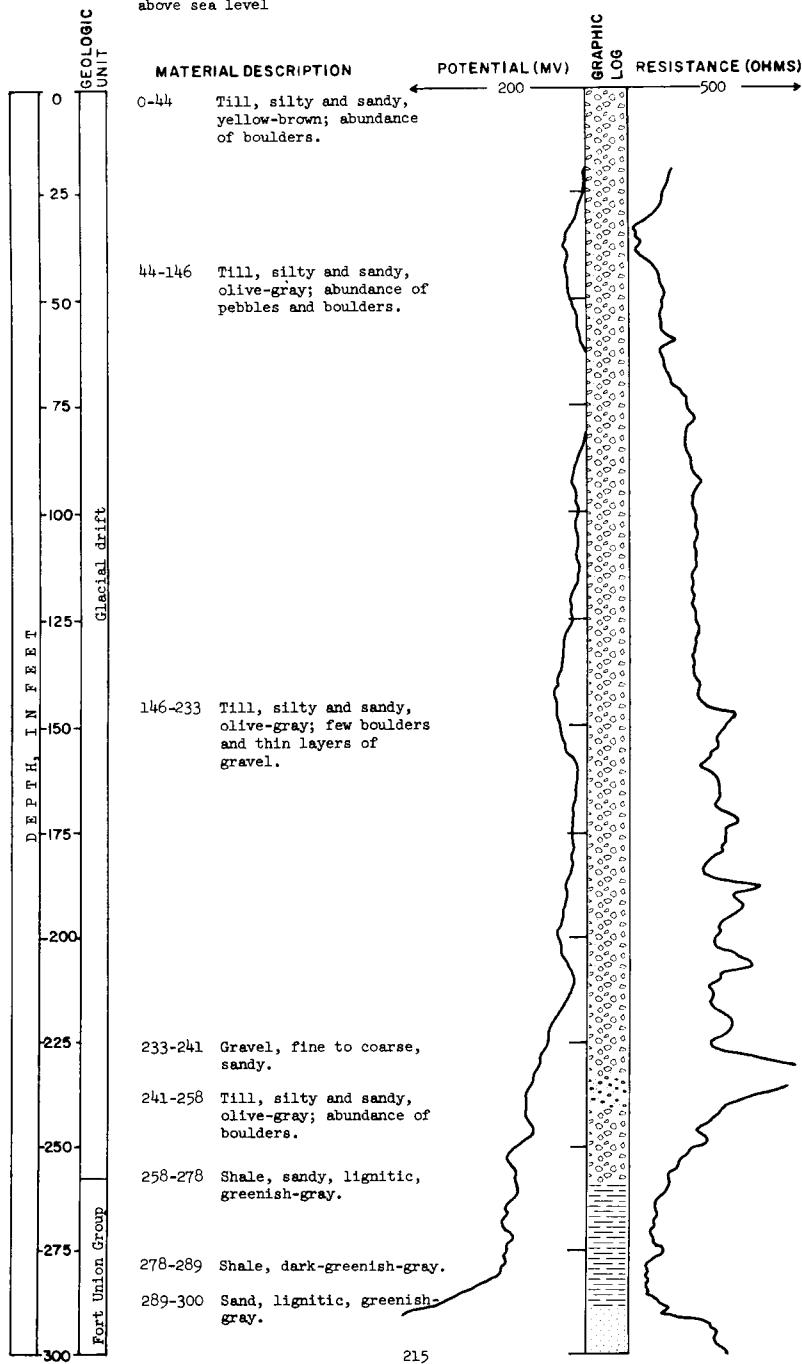
LOCATION: Ward County  
159-89-19add

ELEVATION: 2,307 feet  
above sea level

TEST HOLE 3259

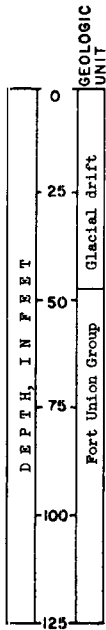
DATE DRILLED: August 20, 1965

DEPTH: 300 feet



LOCATION: Ward County TEST HOLE 3260  
 159-89-24aaa  
 ELEVATION: 2,092 feet  
 above sea level

DATE DRILLED: August 20, 1965  
 DEPTH: 60 feet



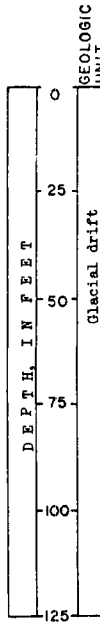
**MATERIAL DESCRIPTION**

0-5 Till, very sandy, yellow-gray.  
 5-20 Till, silty and sandy, yellow-gray; few pebbles.  
 20-44 Till, silty, olive-gray; few boulders.  
 44-47 Silt, clayey, yellow-brown.  
 47-60 Sand, very fine to fine, greenish-gray; lignite between 55-57.



LOCATION: Ward County TEST HOLE  
 159-89-36cb U.S. Air Force  
 ELEVATION: 2,274 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 101 feet



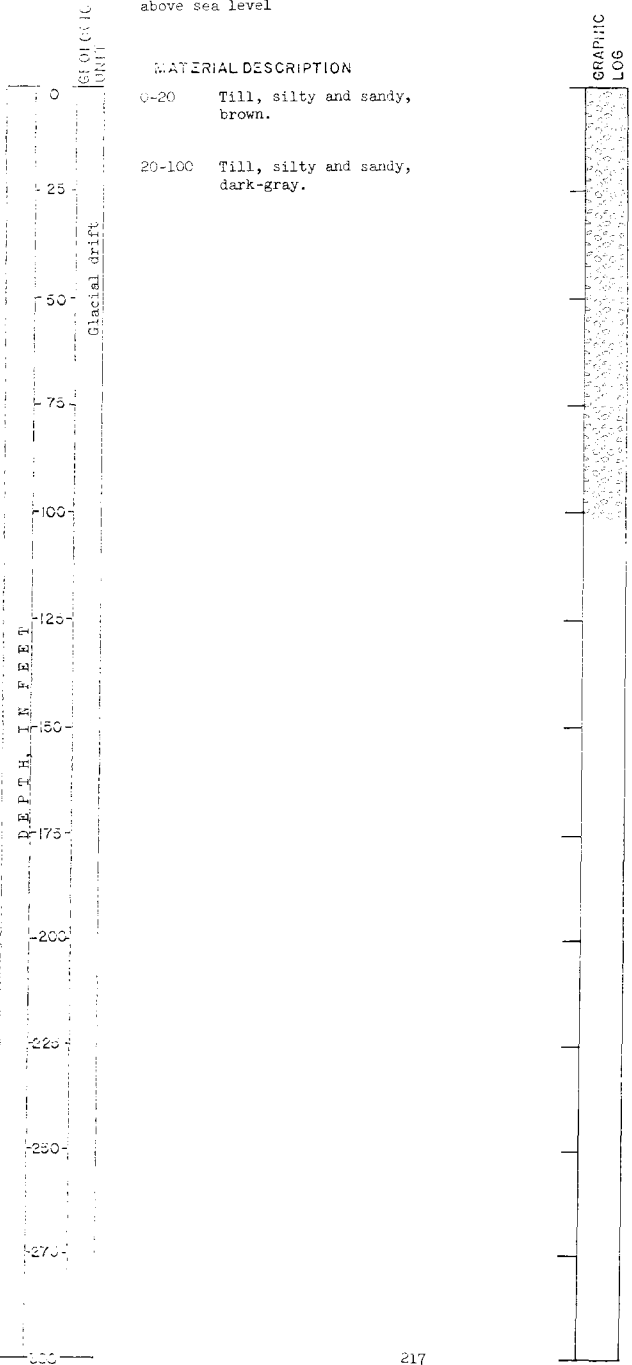
**MATERIAL DESCRIPTION**

0-27 Till, silty and sandy, brown to brown-gray.  
 27-31 Silt, clayey, brown.  
 31-33 Silt, clayey, gray.  
 33-101 Till, silty and sandy, dark-gray.



LOCATION: Renville County TEST HOLE  
 160-84-9aa U.S. Air Force  
 ELEVATION: 1,661 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 100 feet



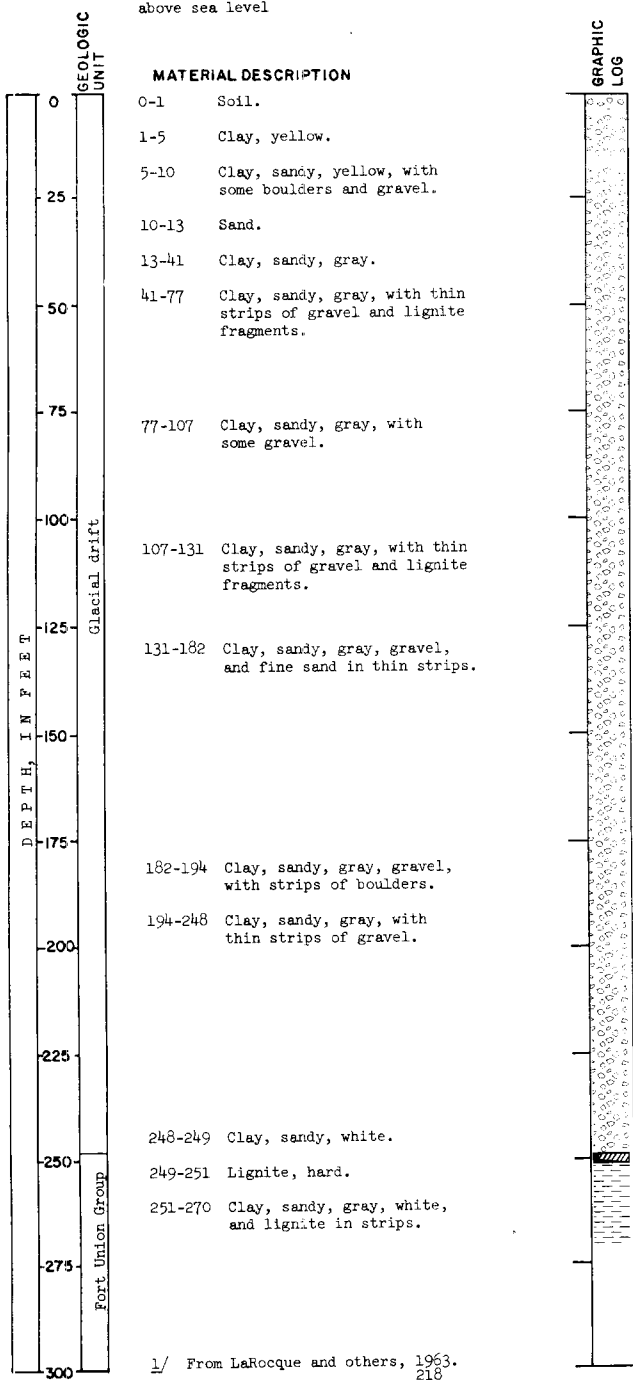
LOCATION: Renville County  
 160-84-16daa U.S. Geol. Survey<sup>1/</sup>

ELEVATION: 1,629 feet  
 above sea level

TEST HOLE

DATE DRILLED: 1947

DEPTH: 270 feet

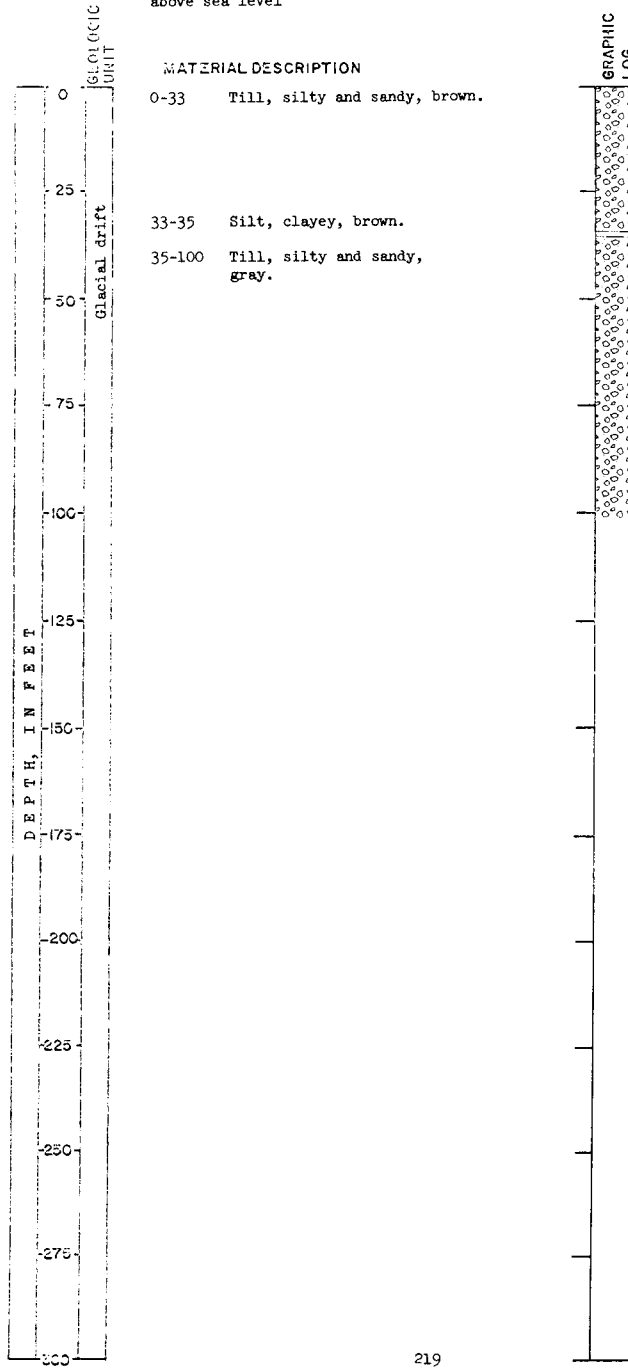


<sup>1/</sup> From LaRocque and others, 1963, p. 218

LOCATION: Renville County TEST HOLE  
 160-85-10dc U.S. Air Force

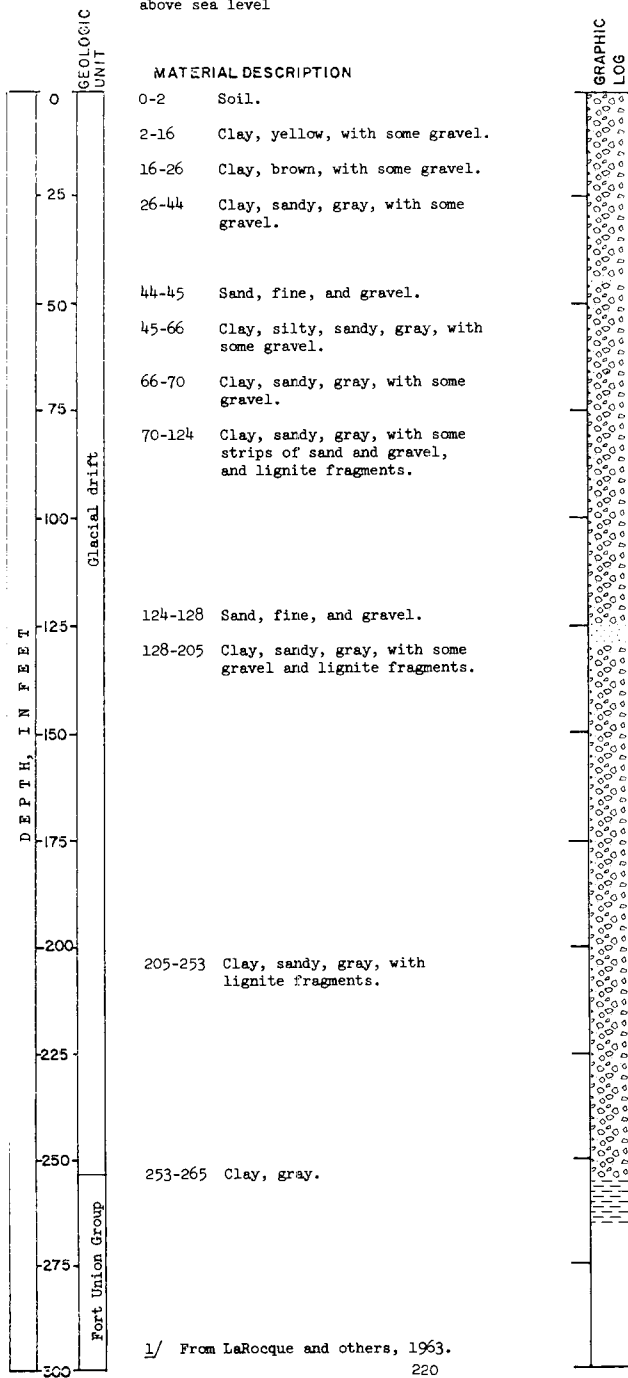
ELEVATION: 1,753 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 100 feet



LOCATION: Renville County TEST HOLE  
 160-85-36aa U.S. Geol. Survey<sup>1/</sup>  
 ELEVATION: 1,742 feet  
 above sea level

DATE DRILLED: 1947  
 DEPTH: 265 feet

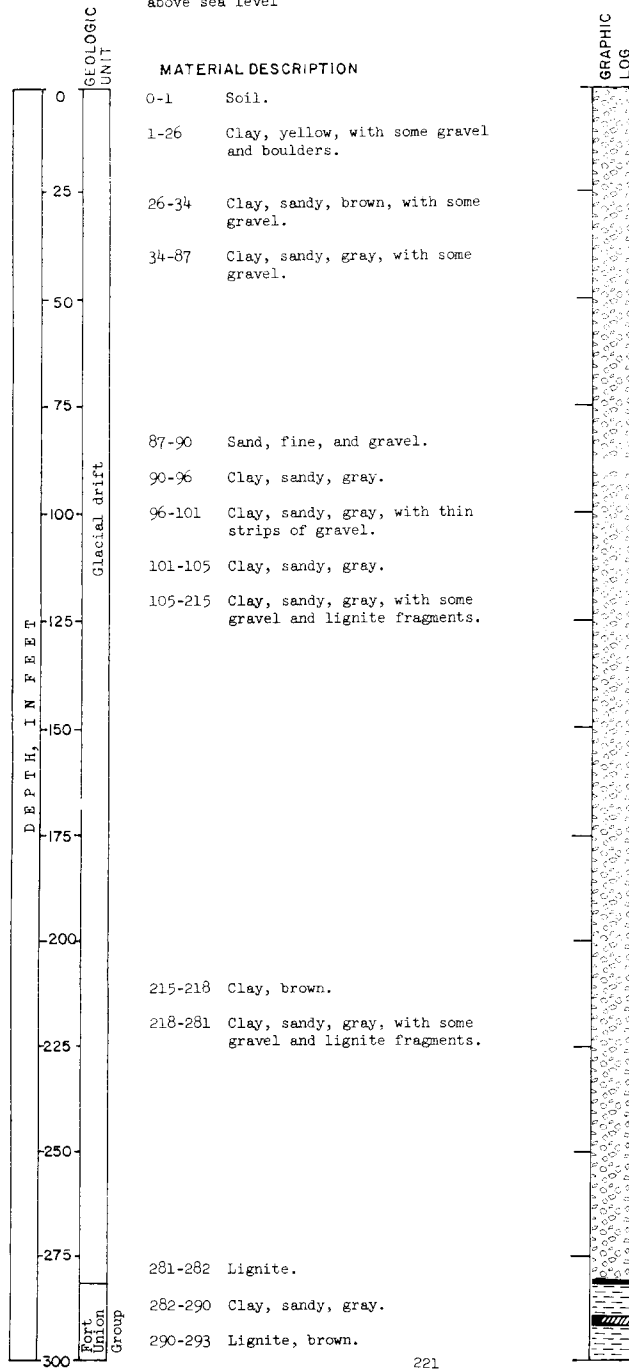


<sup>1/</sup> From LaRocque and others, 1963.  
 220

LOCATION: Renville County TEST HOLE  
 160-86-10cc U.S. Geol. Survey 1/

ELEVATION: 1,828 feet  
 above sea level

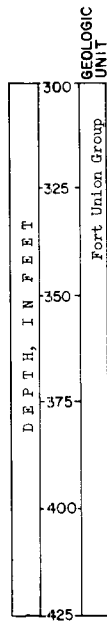
DATE DRILLED: 1947  
 DEPTH: 317 feet





LOCATION: Renville County TEST HOLE  
 160-86-10cc U.S. Geol. Survey<sup>1/</sup>  
 (Continued)  
 ELEVATION: 1,828 feet  
 above sea level

DATE DRILLED: 1947  
 DEPTH: 317 feet



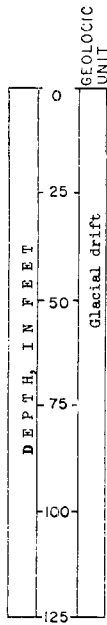
**MATERIAL DESCRIPTION**  
 293-317 Clay, sandy, gray, with lignite fragments.

<sup>1/</sup> From LaRocque and others, 1963

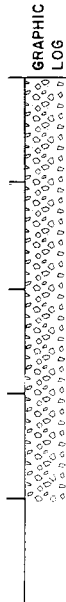


LOCATION: Renville County TEST HOLE  
 160-86-25dd U.S. Air Force  
 ELEVATION: 1,774 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 100 feet



**MATERIAL DESCRIPTION**  
 0-40 Till, silty and sandy, brown.  
 40-100 Till, silty and sandy, dark-gray.



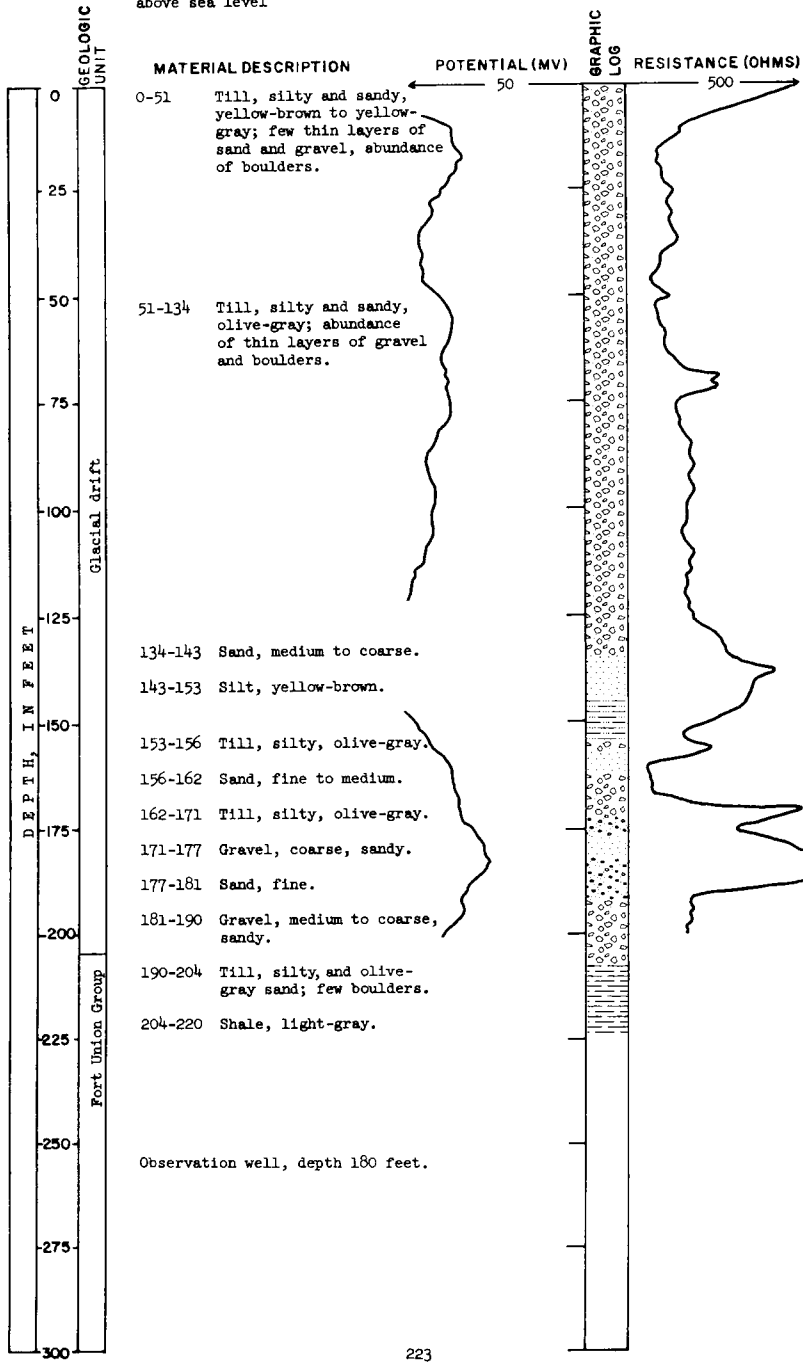
LOCATION: Ward County  
160-87-17add

ELEVATION: 1,904 feet  
above sea level

TEST HOLE 3257

DATE DRILLED: August 19, 1965

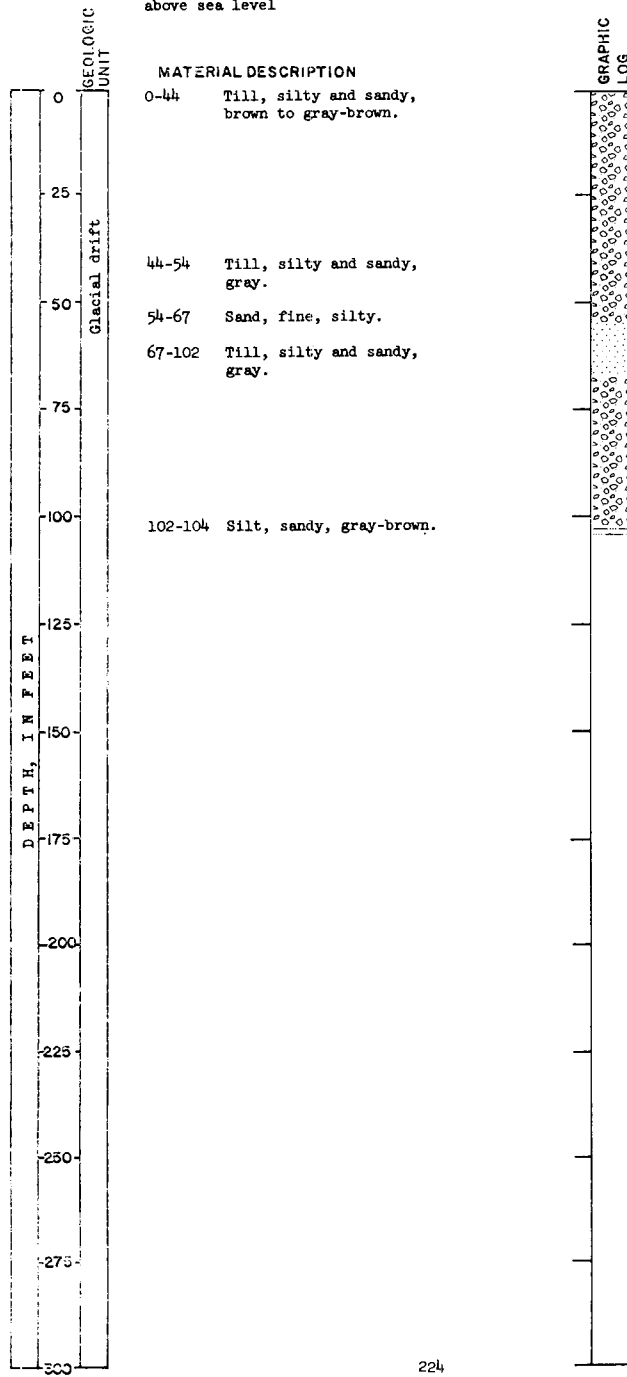
DEPTH: 220 feet



LOCATION: Ward County  
 160-87-23dd  
 ELEVATION: 1,866 feet  
 above sea level

TEST HOLE  
 U.S. Air Force

DATE DRILLED: 1961  
 DEPTH: 104 feet



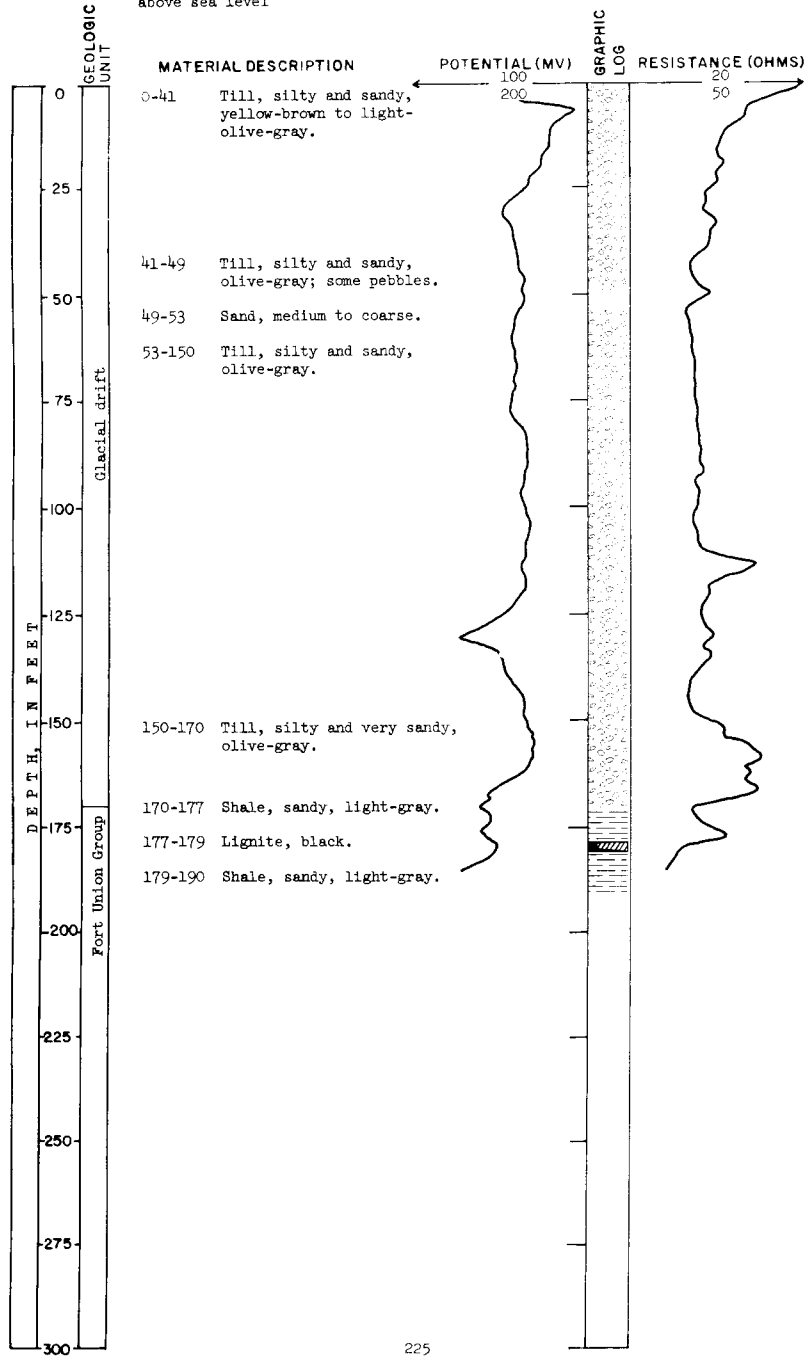
LOCATION: Ward County  
160-88-10bbb

ELEVATION: 1,924 feet  
above sea level

TEST HOLE 3336

DATE DRILLED: June 14, 1966

DEPTH: 190 feet



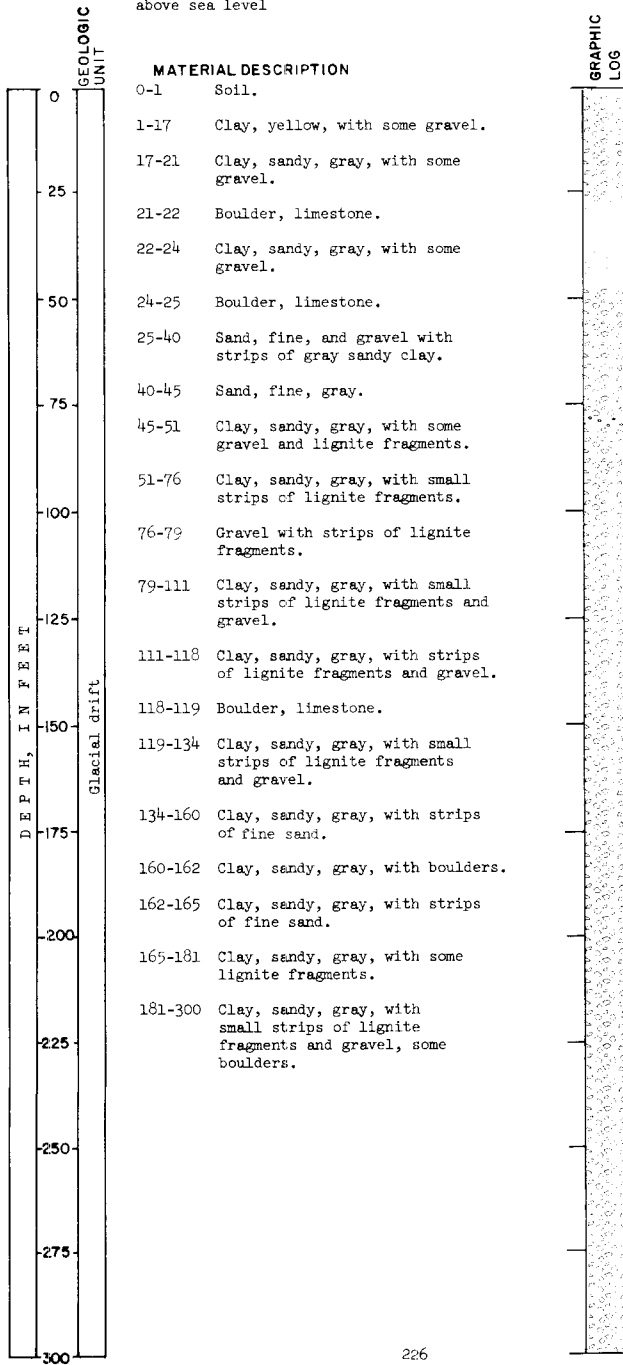
LOCATION: Ward County  
160-88-10ccc

ELEVATION: 1,932 feet  
above sea level

TEST HOLE  
U.S. Geol. Survey 1/

DATE DRILLED: July 18, 1947

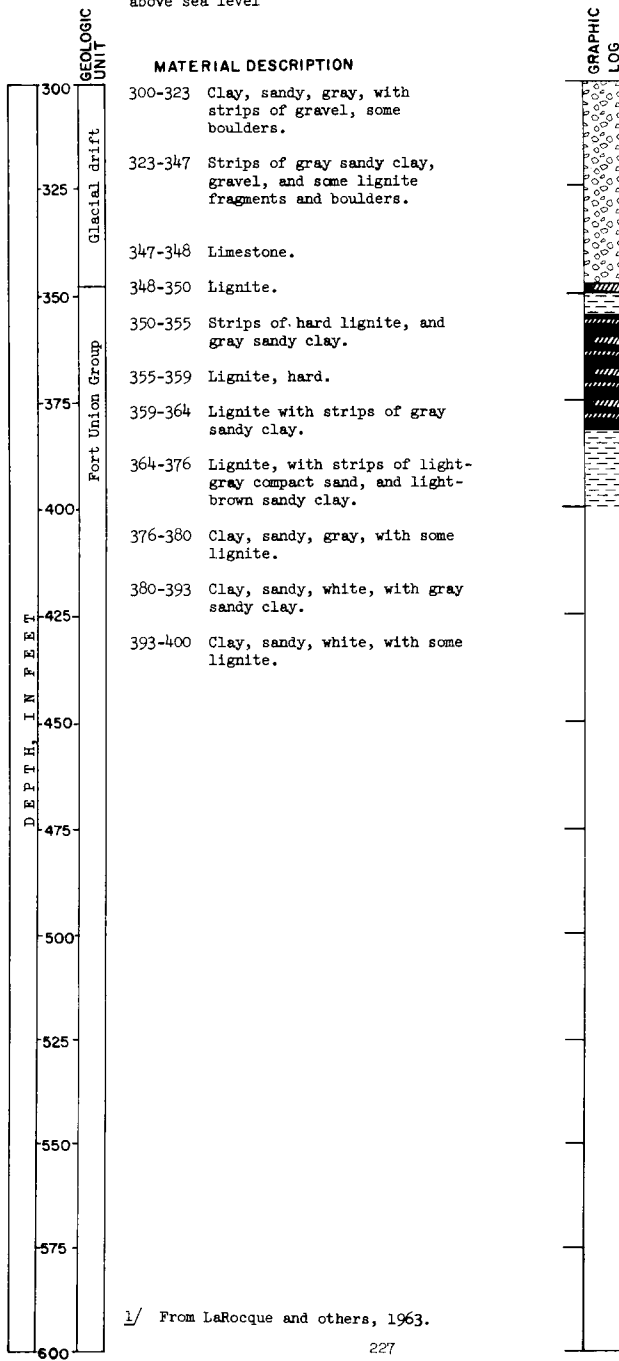
DEPTH: 400 feet



LOCATION: Ward County U.S. Geol. Survey <sup>1/</sup>  
 160-88-10ccc (Continued)

ELEVATION: 1,932 feet  
 above sea level

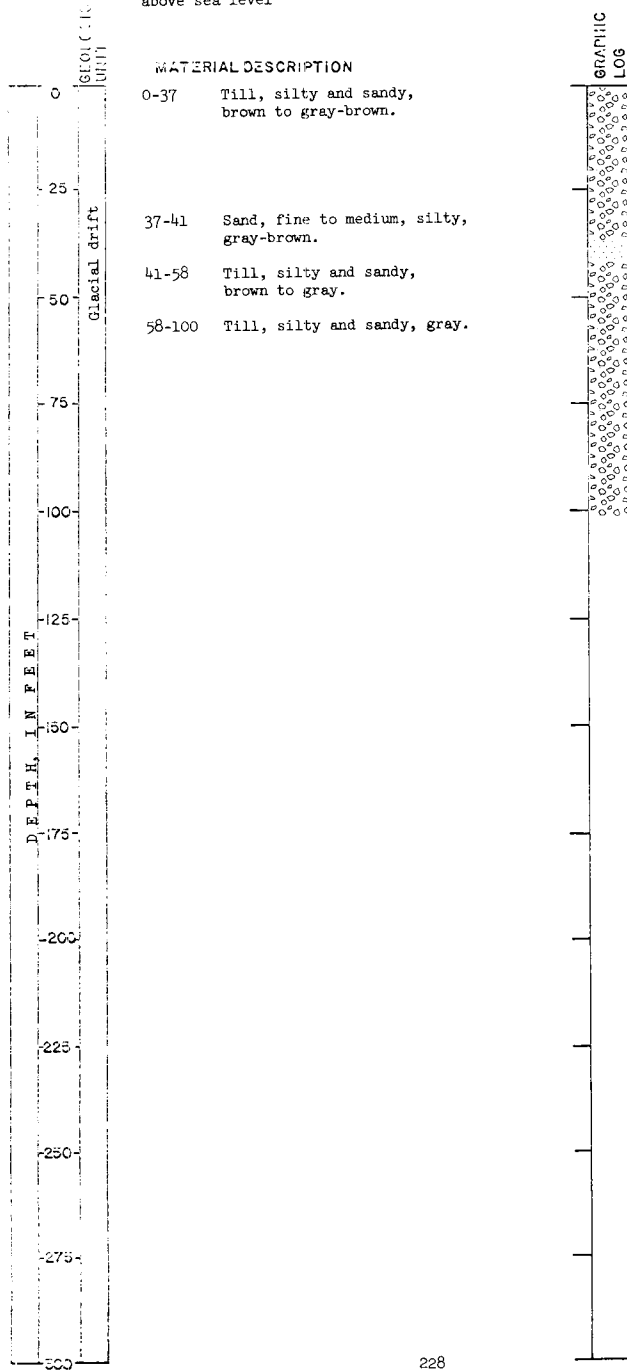
TEST HOLE  
 DATE DRILLED: July 18, 1947  
 DEPTH: 400 feet



LOCATION: Ward County  
160-88-14cc  
ELEVATION: 1,936 feet  
above sea level

TEST HOLE  
U.S. Air Force

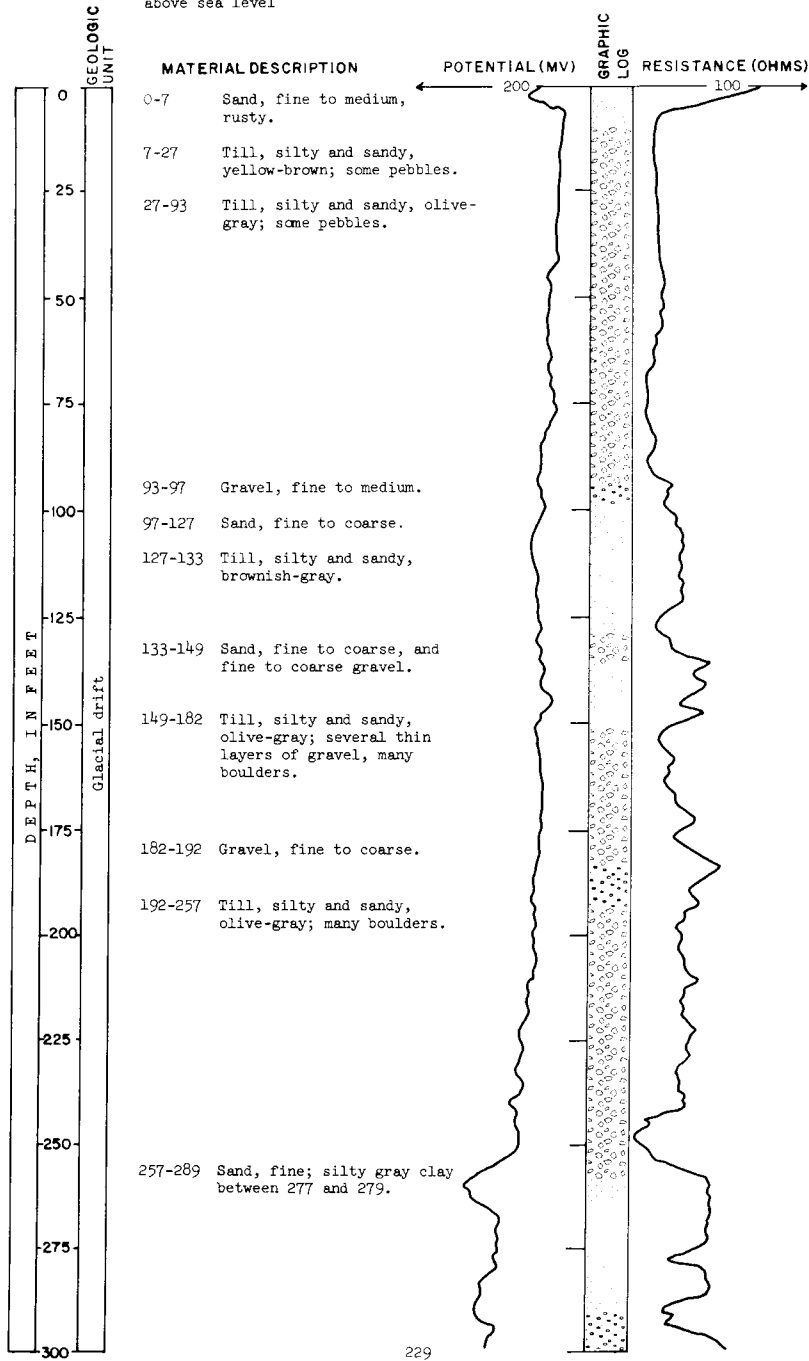
DATE DRILLED: 1961  
DEPTH: 100 feet



LOCATION: Ward County  
160-88-19add  
ELEVATION: 1,795 feet  
above sea level

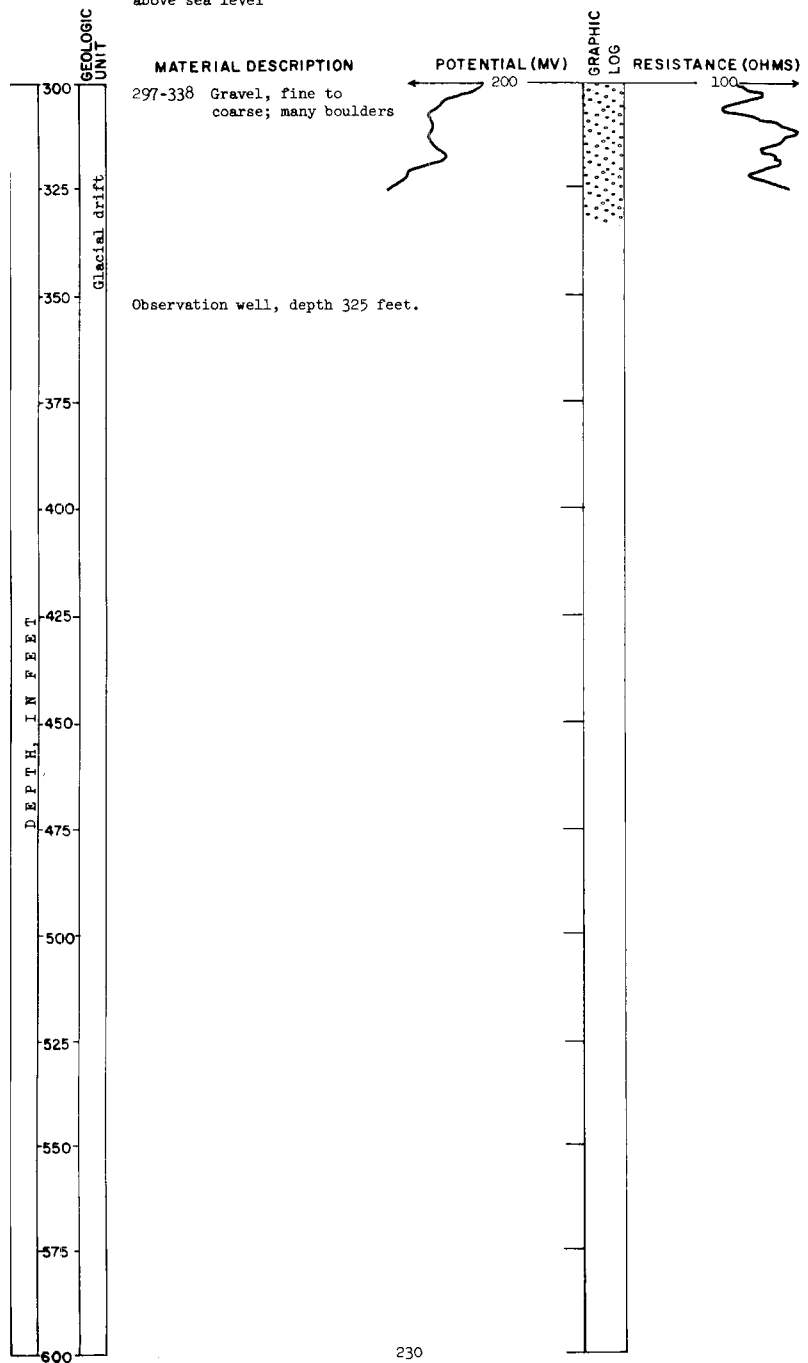
TEST HOLE 3341

DATE DRILLED: June 21, 1966  
DEPTH: 338 feet





LOCATION: Ward County TEST HOLE 3341  
 160-88-19add (Continued) DATE DRILLED: June 21, 1966  
 ELEVATION: 1,795 feet above sea level DEPTH: 338 feet



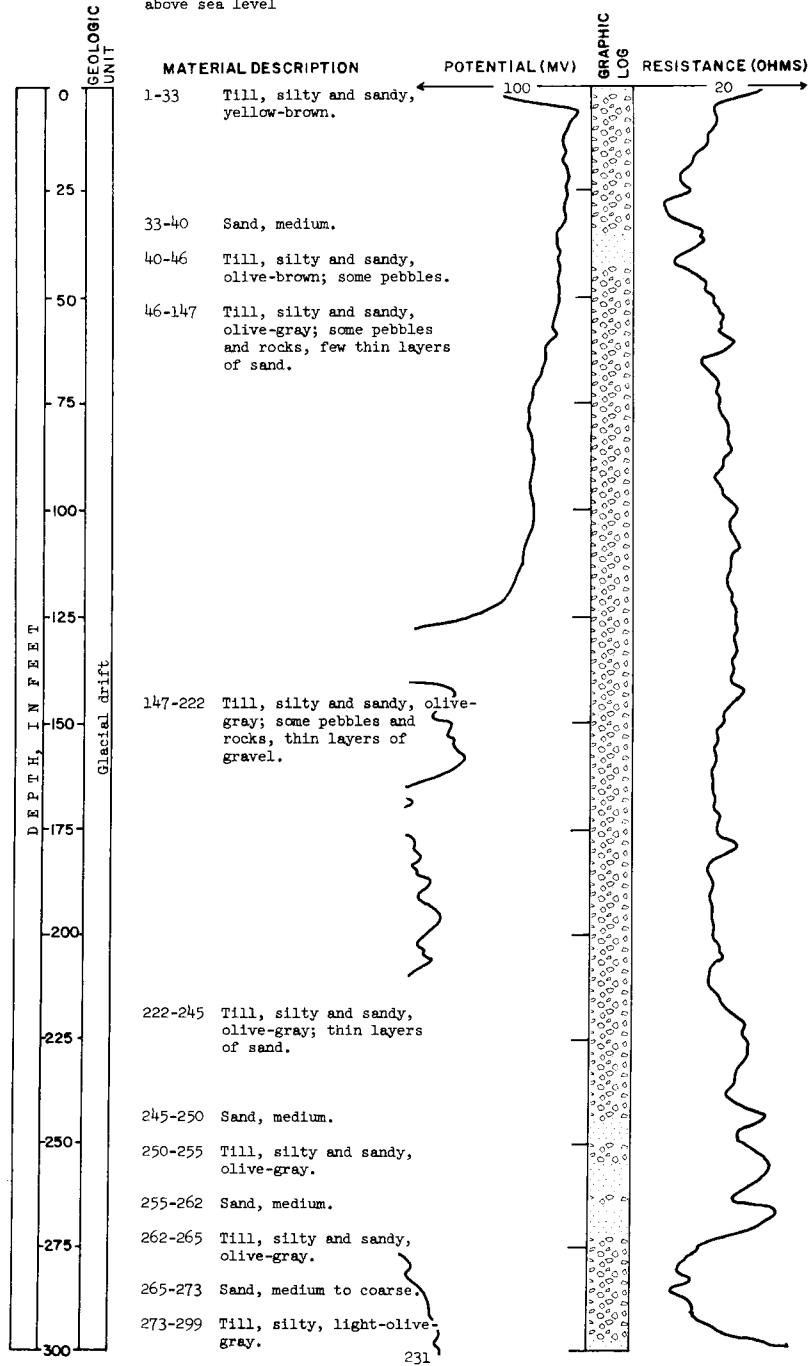
LOCATION: Ward County  
160-88-19ccc

ELEVATION: 1,950 feet  
above sea level

TEST HOLE 3335

DATE DRILLED: June 13, 1966

DEPTH: 470 feet

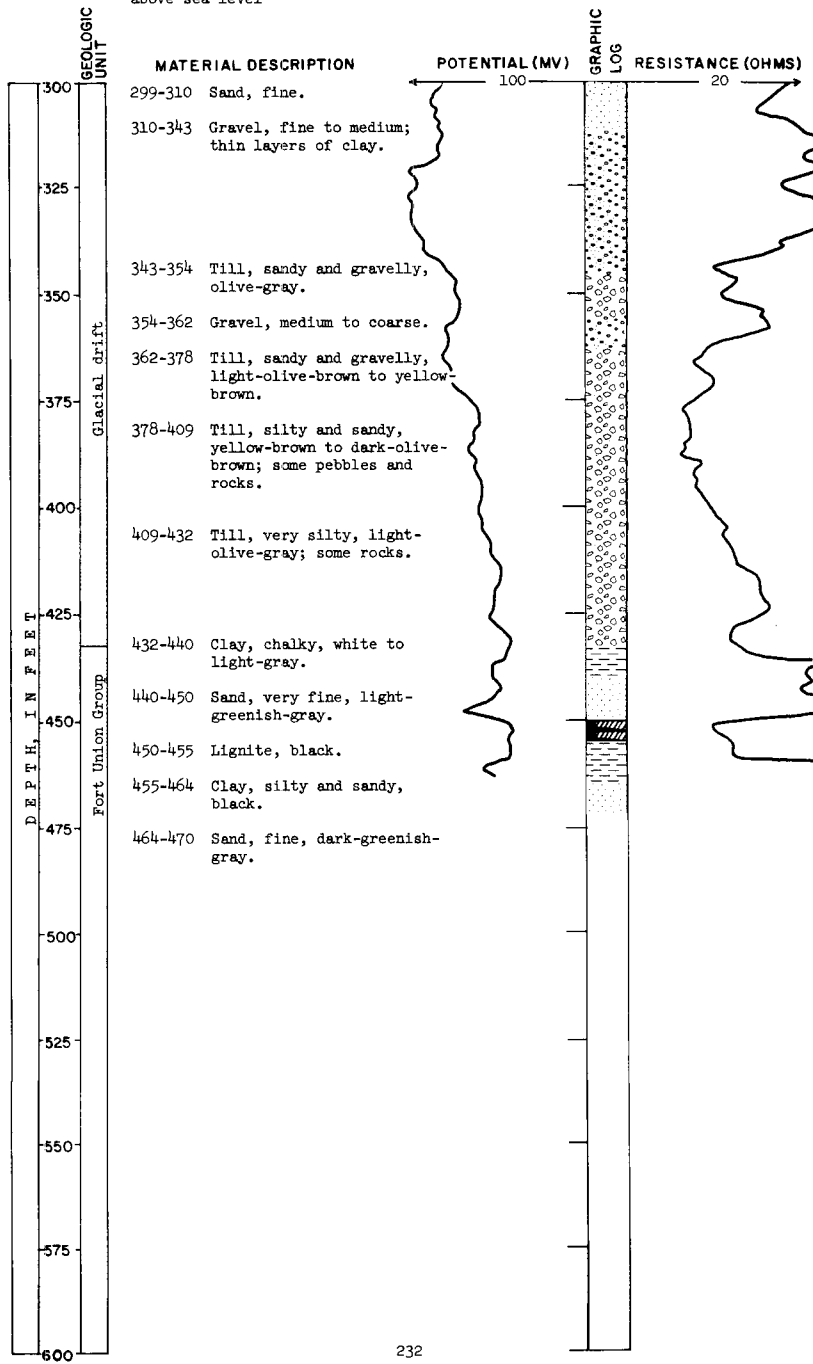


LOCATION: Ward County  
160-88-19ccc

ELEVATION: 1,950 feet  
above sea level

TEST HOLE 3335  
(Continued)

DATE DRILLED: June 13, 1966  
DEPTH: 470 feet



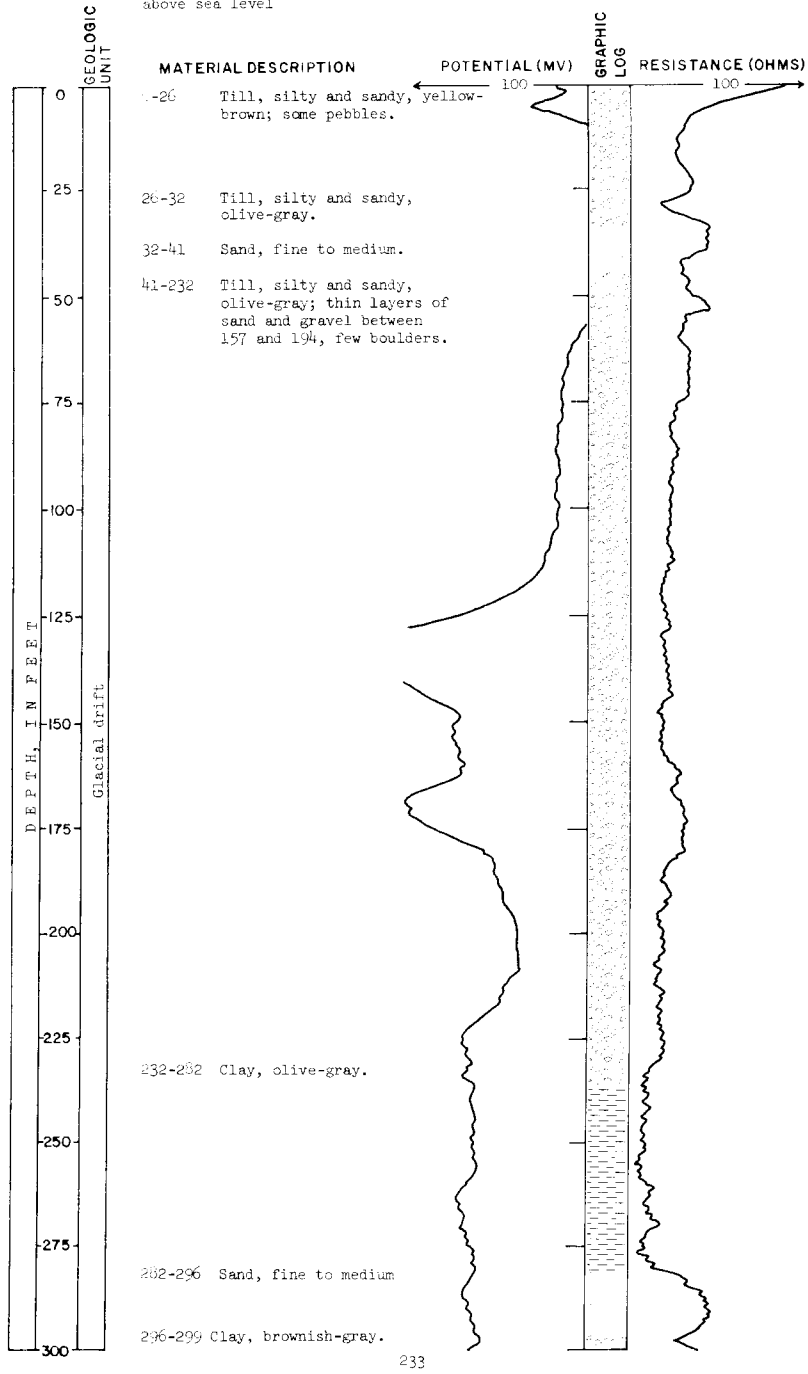
LOCATION: Ward County  
160-38-20caa

ELEVATION: 1,820 feet  
above sea level

TEST HOLE 3332

DATE DRILLED: June 7, 1966

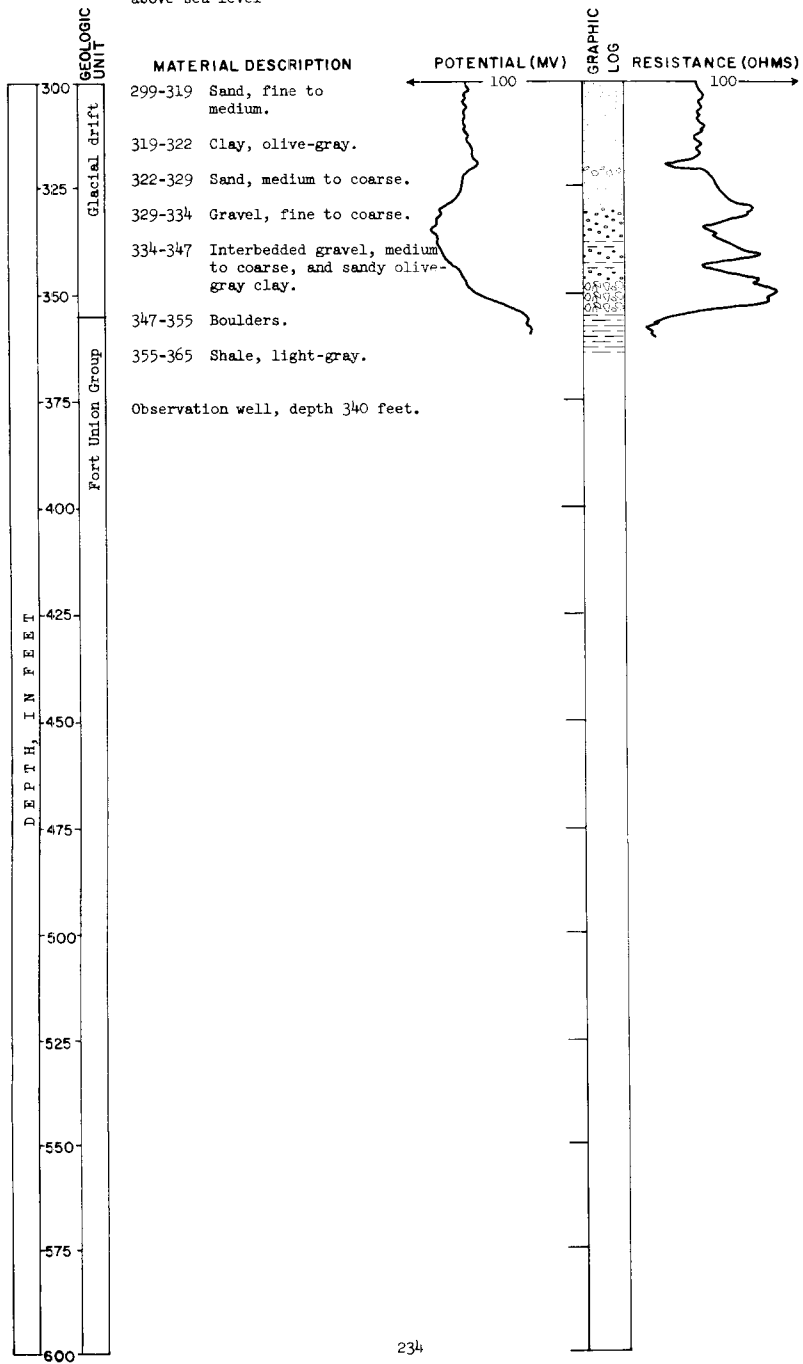
DEPTH: 365 feet



LOCATION: Ward County TEST HOLE 3332  
 160-88-20caa (Continued)

ELEVATION: 1,820 feet  
 above sea level

DATE DRILLED: June 7, 1966  
 DEPTH: 365 feet



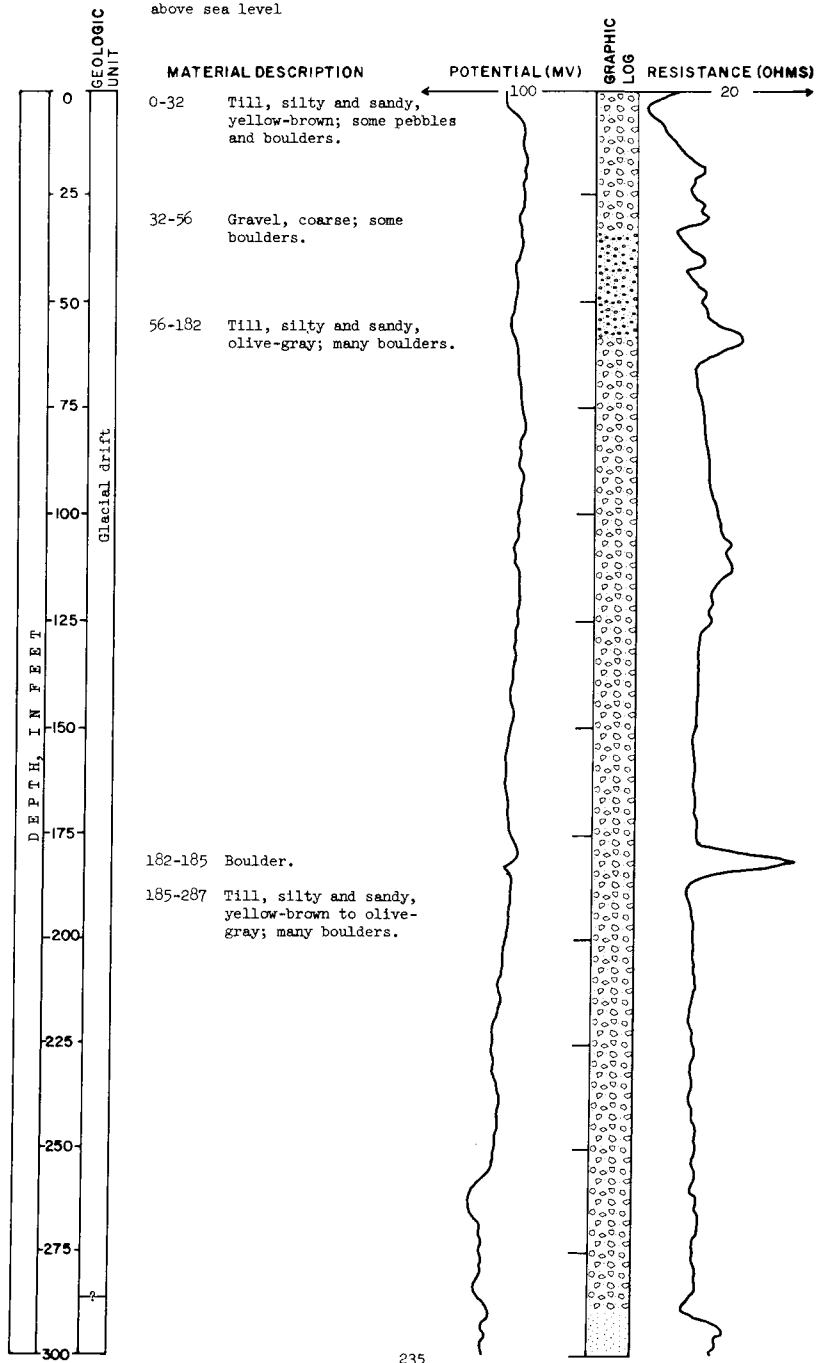
LOCATION: Ward County  
160-88-20daa

ELEVATION: 1,964 feet  
above sea level.

TEST HOLE 3342

DATE DRILLED: June 22, 1966

DEPTH: 380 feet

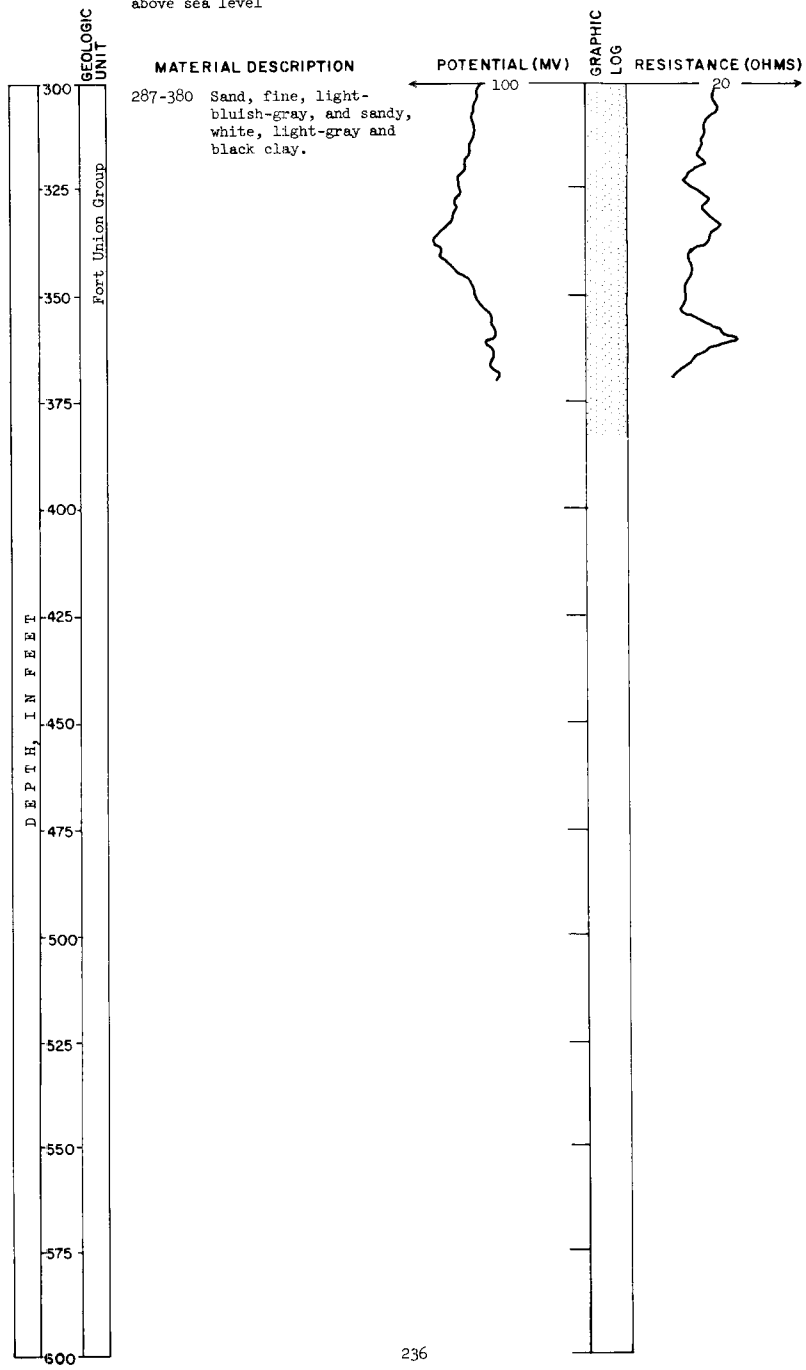


LOCATION: Ward County  
160-88-203aa

ELEVATION: 1,964 feet  
above sea level

TEST HOLE 3342  
(Continued)

DATE DRILLED: June 22, 1966  
DEPTH: 380 feet



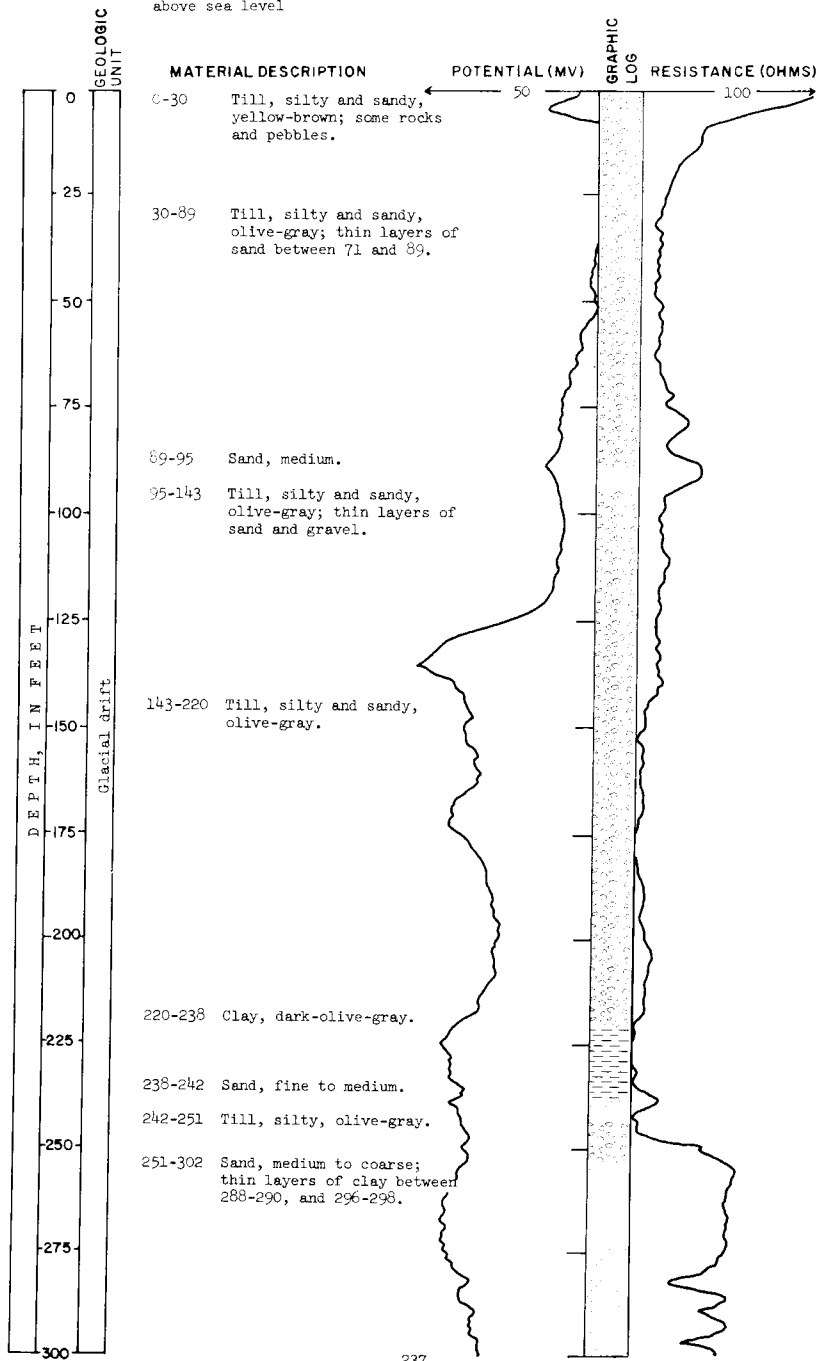
LOCATION: Ward County  
160-88-20dcc

TEST HOLE 3333

DATE DRILLED: June 9, 1966

ELEVATION: 1,798 feet  
above sea level

DEPTH: 325 feet





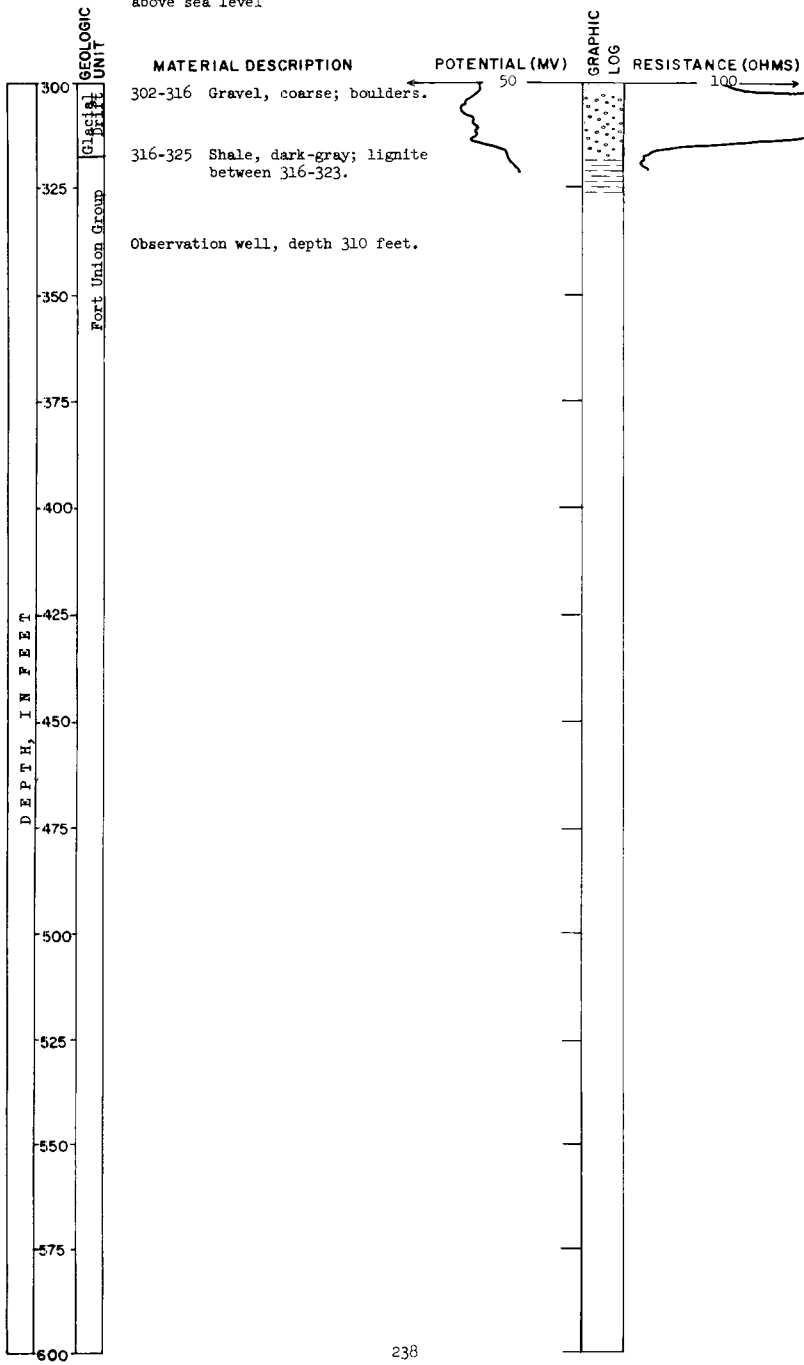
LOCATION: Ward County  
160-88-20dcc

TEST HOLE 3333  
(Continued)

DATE DRILLED: June 9, 1966

ELEVATION: 1,798 feet  
above sea level

DEPTH: 325 feet



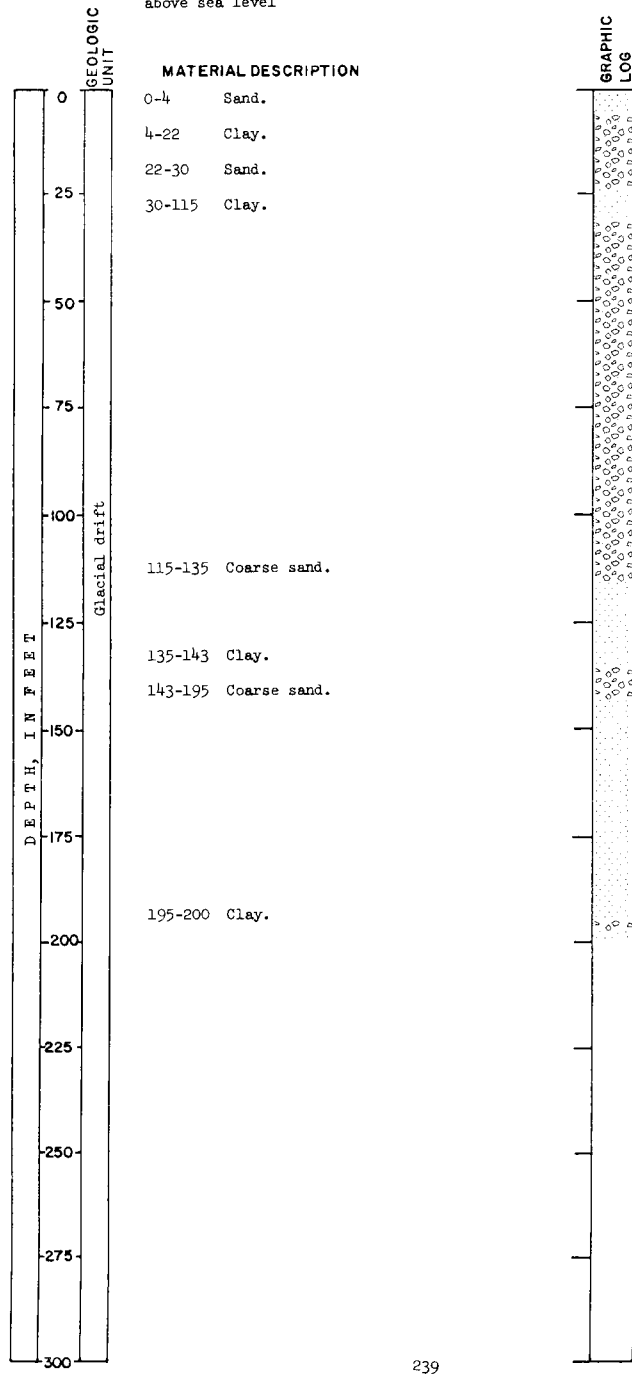
LOCATION: Ward County  
160-89-9aca

ELEVATION: 1,988 feet  
above sea level

B. Mortensen  
Irrigation well  
Test hole

DATE DRILLED: May 16, 1962

DEPTH: 200 feet



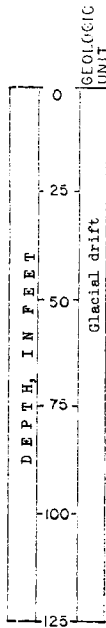
LOCATION: Ward County  
160-89-12cc

TEST HOLE  
U.S. Air Force

ELEVATION: 1,972 feet  
above sea level

DATE DRILLED: 1961

DEPTH: 103 feet



**MATERIAL DESCRIPTION**

- 0-18 Till, silty and sandy, gray-brown.
- 18-32 Sand, fine, silty, brown.
- 32-37 Till, silty and sandy, gray-brown.
- 37-41 Till, silty and sandy, dark-gray.
- 41-45 Silt, sandy, gray-brown.
- 45-103 Till, silty and sandy, gray-brown to dark-gray.



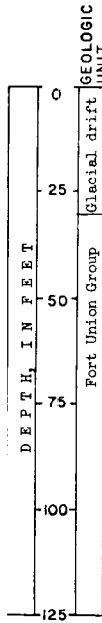
LOCATION: Ward County  
160-89-17bbb

TEST HOLE 3258

ELEVATION: 2,011 feet  
above sea level

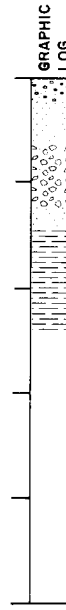
DATE DRILLED: August 20, 1965

DEPTH: 60 feet



**MATERIAL DESCRIPTION**

- 0-5 Gravel, fine to medium, rusty.
- 5-14 Sand, fine to medium.
- 14-31 Till, very silty and sandy, olive-gray; abundance of thin layers of sand.
- 31-36 Sand, fine, greenish-gray.
- 36-45 Shale, greenish-gray.
- 45-60 Shale, very silty and sandy, medium gray.



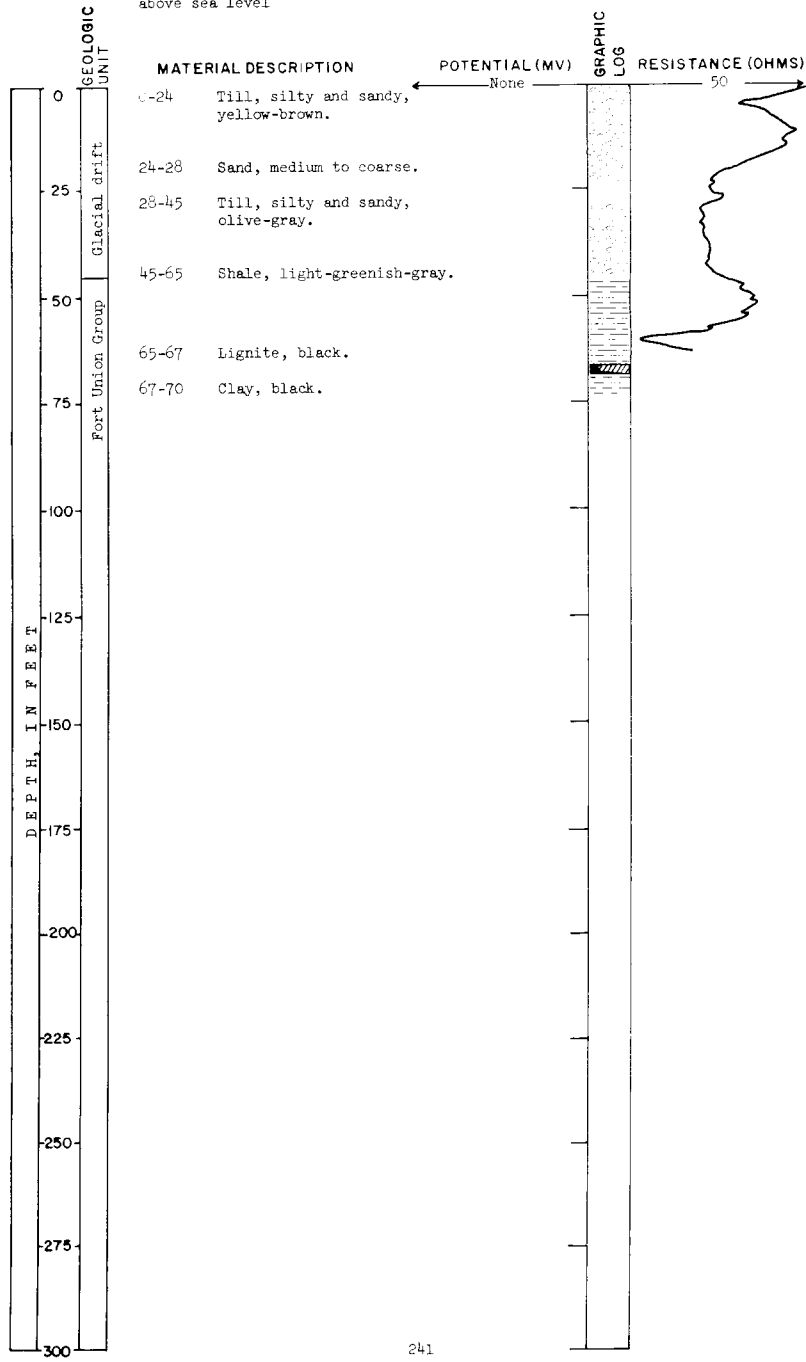
LOCATION: Ward County  
160-89-26ddd

ELEVATION: 2,014 feet  
above sea level

TEST HOLE 3334

DATE DRILLED: June 13, 1966

DEPTH: 70 feet

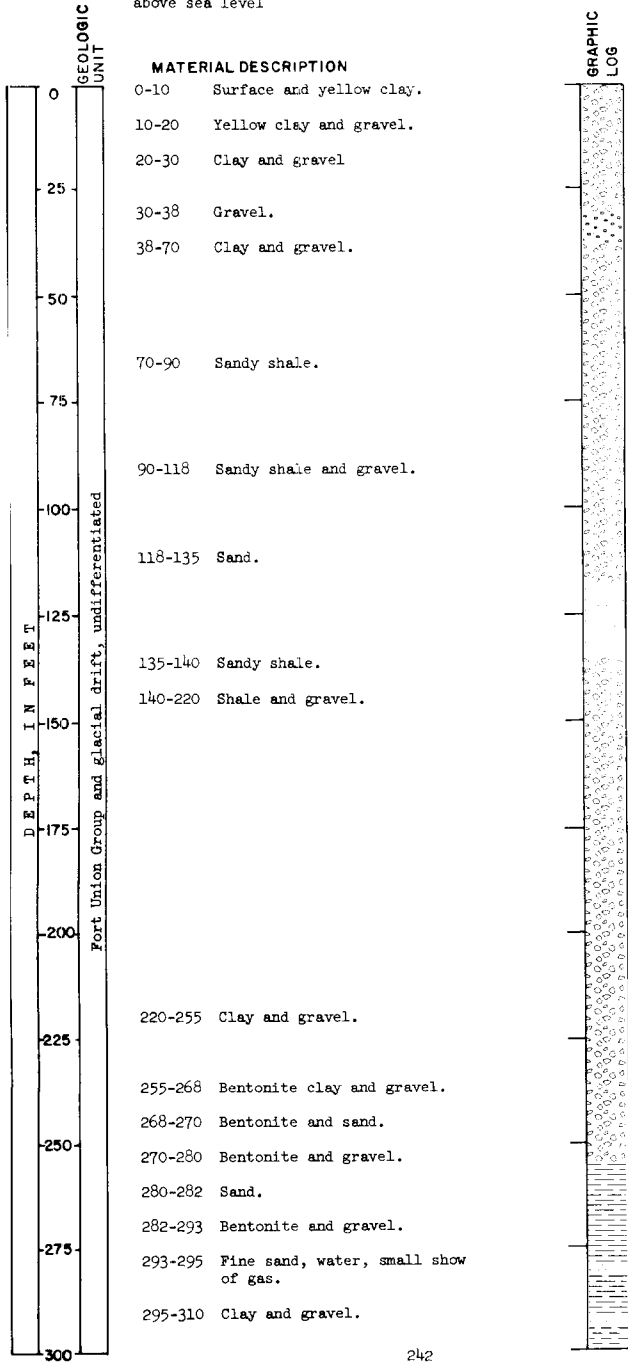


LOCATION: Remville County Gas test  
 161-84-17ba Driller's log<sup>1</sup>/<sub>2</sub>

ELEVATION: 1,665 feet  
 above sea level

DATE DRILLED: November 19, 1953

DEPTH: 325 feet

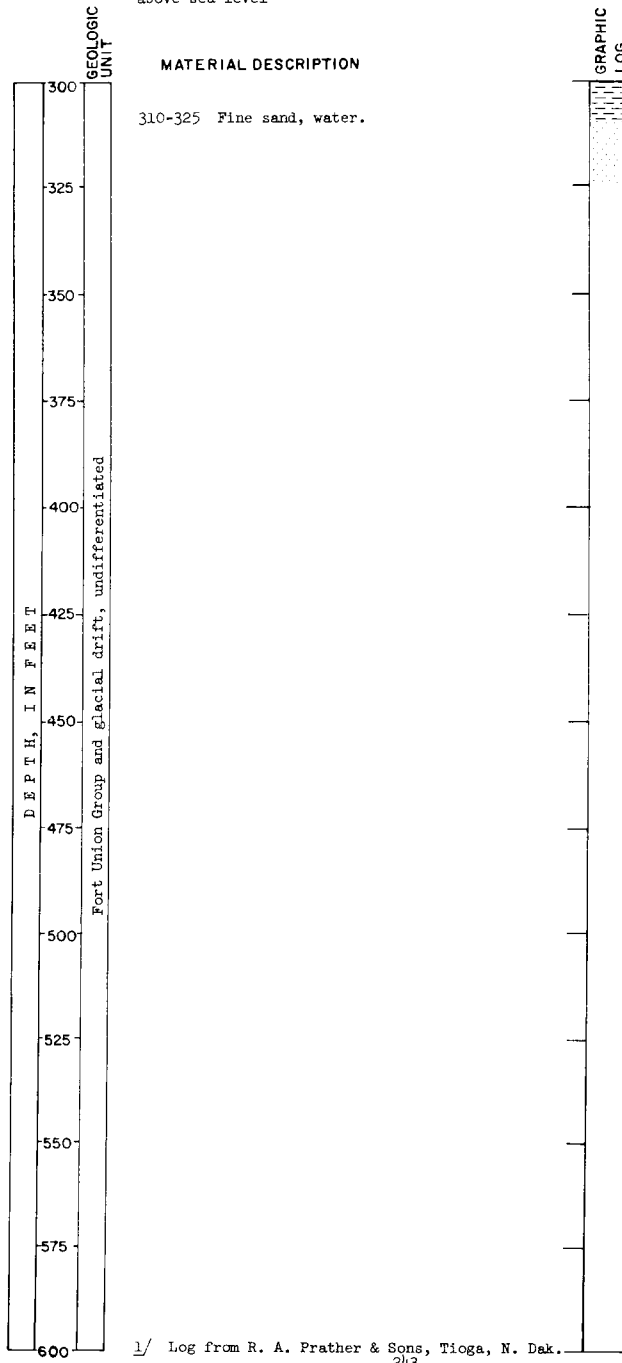


LOCATION: Renville County  
161-84-17ba  
ELEVATION: 1,665 feet  
above sea level

Gas test  
Driller's log<sup>1/</sup>  
(Continued)

DATE DRILLED: November 19, 1953

DEPTH: 325 feet



<sup>1/</sup> Log from R. A. Frather & Sons, Tioga, N. Dak.  
243

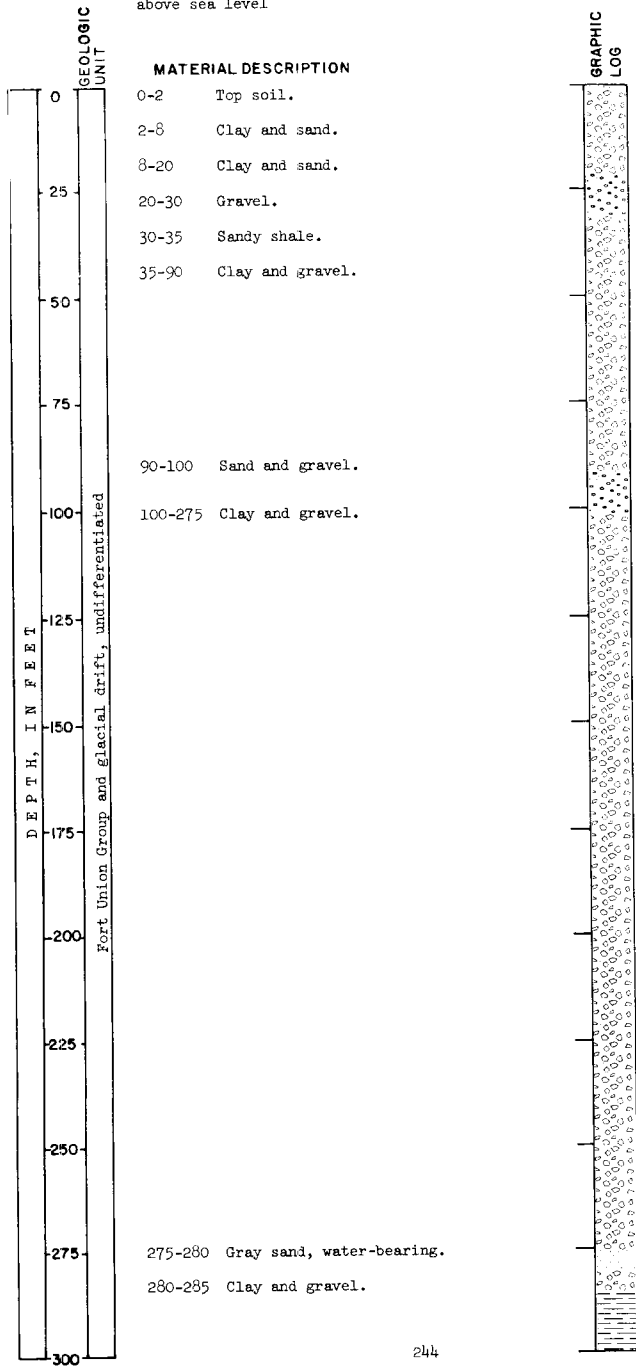
LOCATION: Renville County  
161-84-17cd

Gas test  
Driller's log <sup>1/</sup>

DATE DRILLED: October 30, 1953

ELEVATION: 1,675 feet  
above sea level

DEPTH: 325 feet



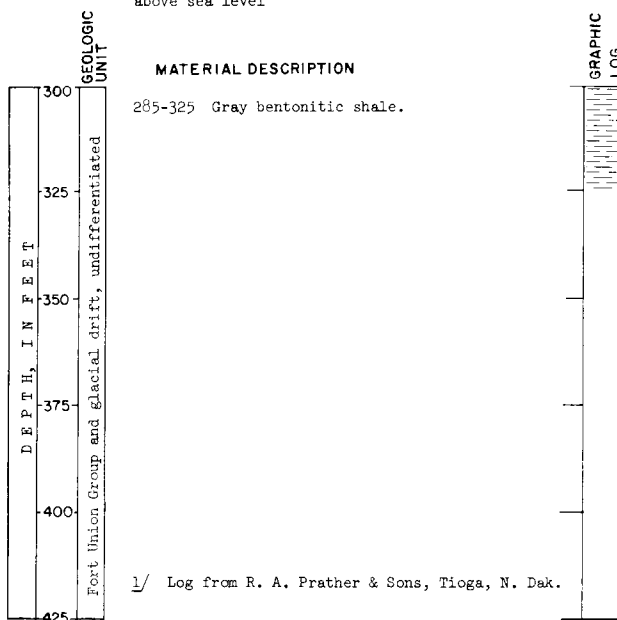
LOCATION: Renville County  
161-84-17cd

ELEVATION: 1,675 feet  
above sea level

Gas test  
Driller's log<sup>1/</sup>  
(Continued)

DATE DRILLED: October 30, 1953

DEPTH: 325 feet



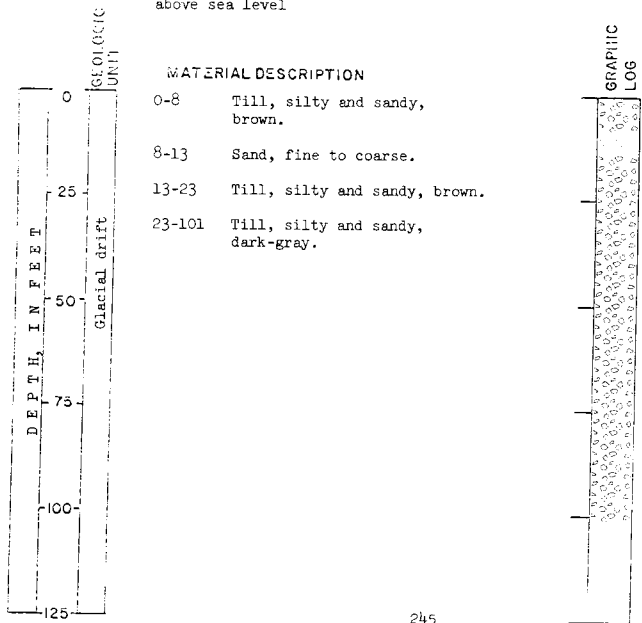
LOCATION: Renville County  
161-84-20ac

ELEVATION: 1,693 feet  
above sea level

TEST HOLE  
U.S. Air Force

DATE DRILLED: 1961

DEPTH: 101 feet





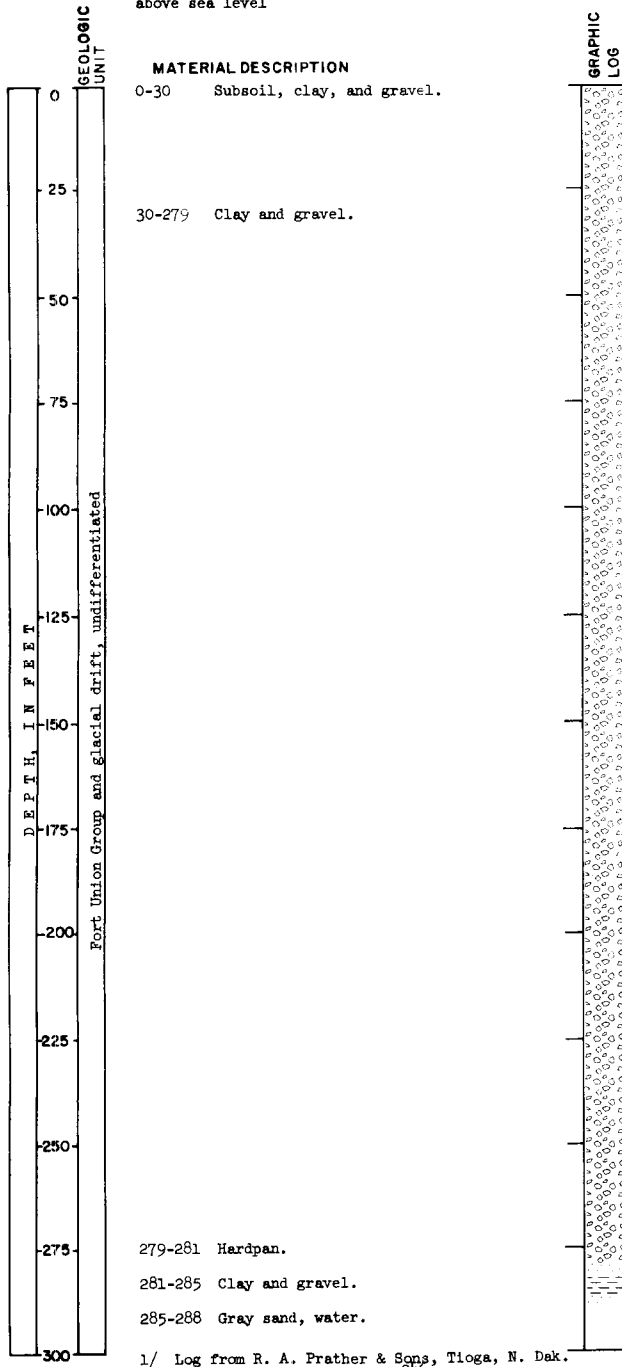
LOCATION: Renville County  
161-84-21aa

Gas test  
Driller's log<sup>1/</sup>

DATE DRILLED: November 7, 1953

ELEVATION: 1,665 feet  
above sea level

DEPTH: 288 feet

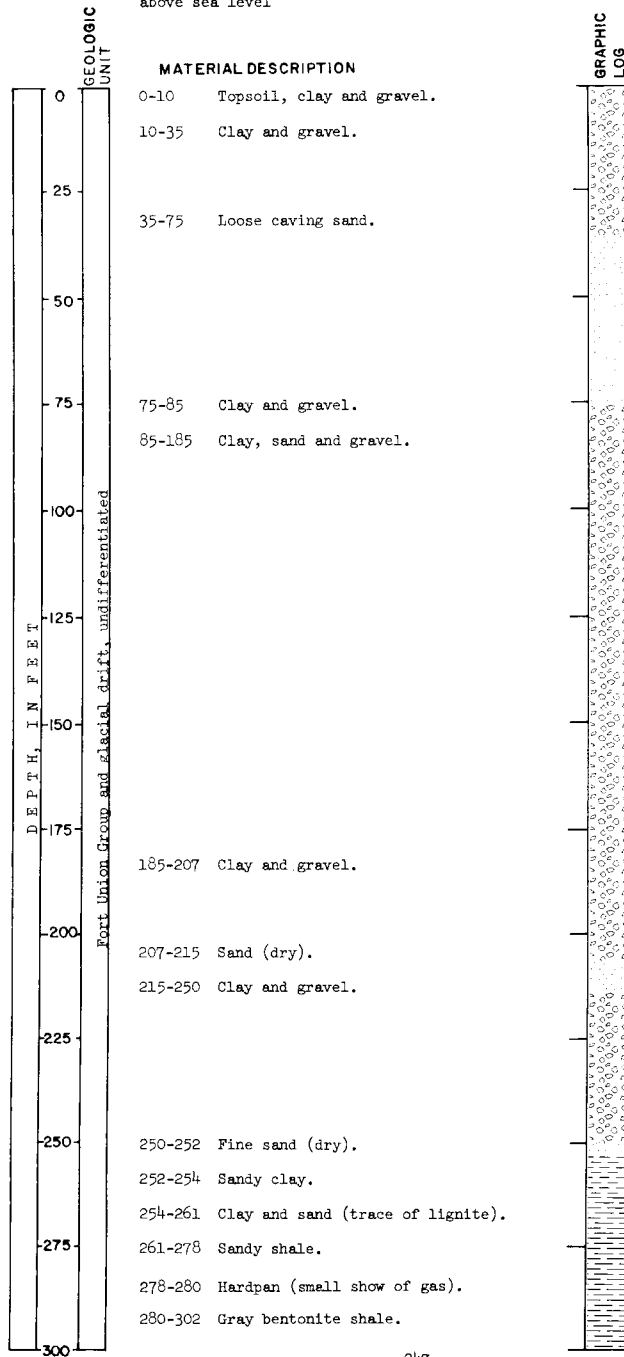


<sup>1/</sup> Log from R. A. Prather & Sons, Tioga, N. Dak.  
246

LOCATION: Renville County  
 161-84-21cd Gas test  
 Driller's log<sup>1</sup>/<sub>2</sub>

ELEVATION: 1,660 feet  
 above sea level

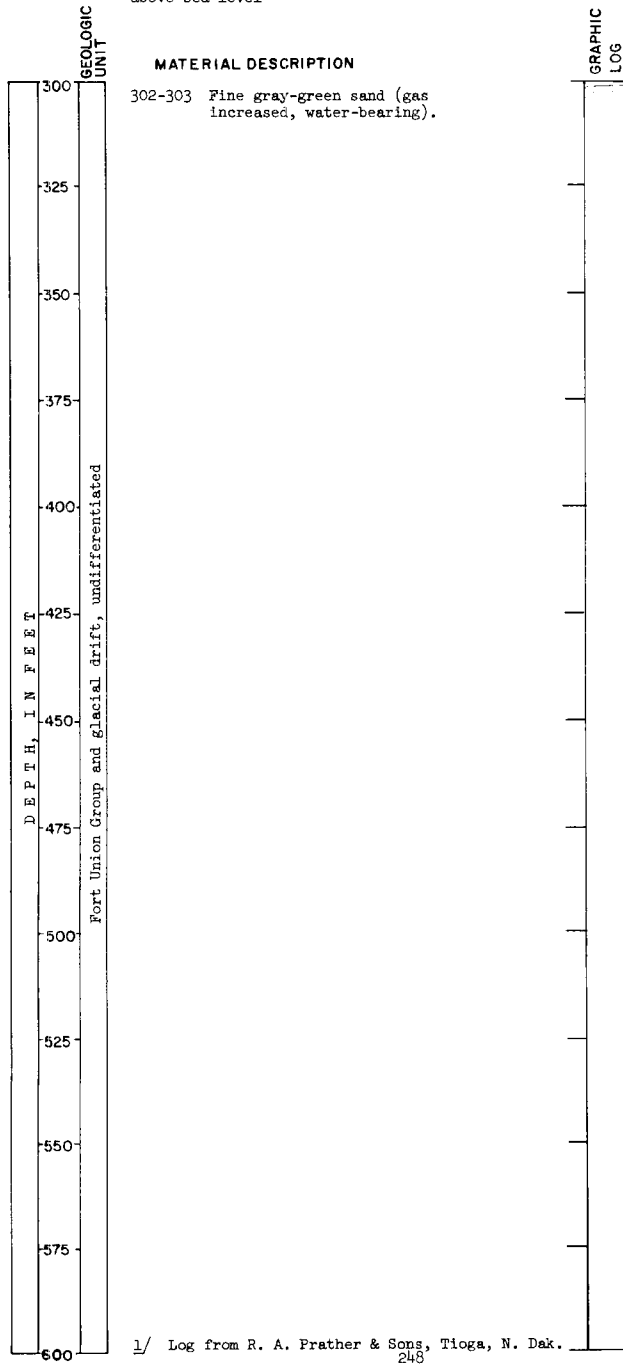
DATE DRILLED: November 3, 1953  
 DEPTH: 303 feet



LOCATION: Renville County  
161-84-21cd  
ELEVATION: 1,660 feet  
above sea level

Gas test  
Driller's log<sup>1/</sup>  
(Continued)

DATE DRILLED: November 3, 1953  
DEPTH: 303 feet

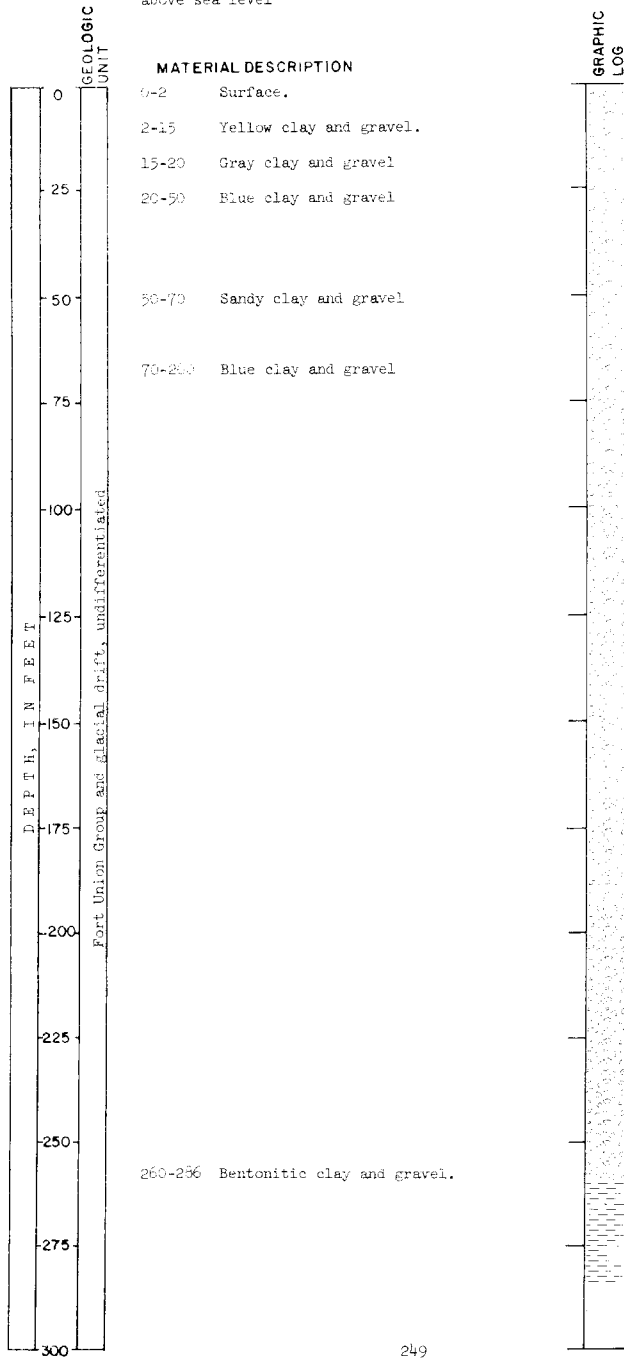


LOCATION: Renville County Gas test  
 161-04-21dd Driller's log<sup>2</sup>/<sub>1</sub>

ELEVATION: 1,665 feet  
 above sea level

DATE DRILLED: November 15, 1963

DEPTH: 320 feet

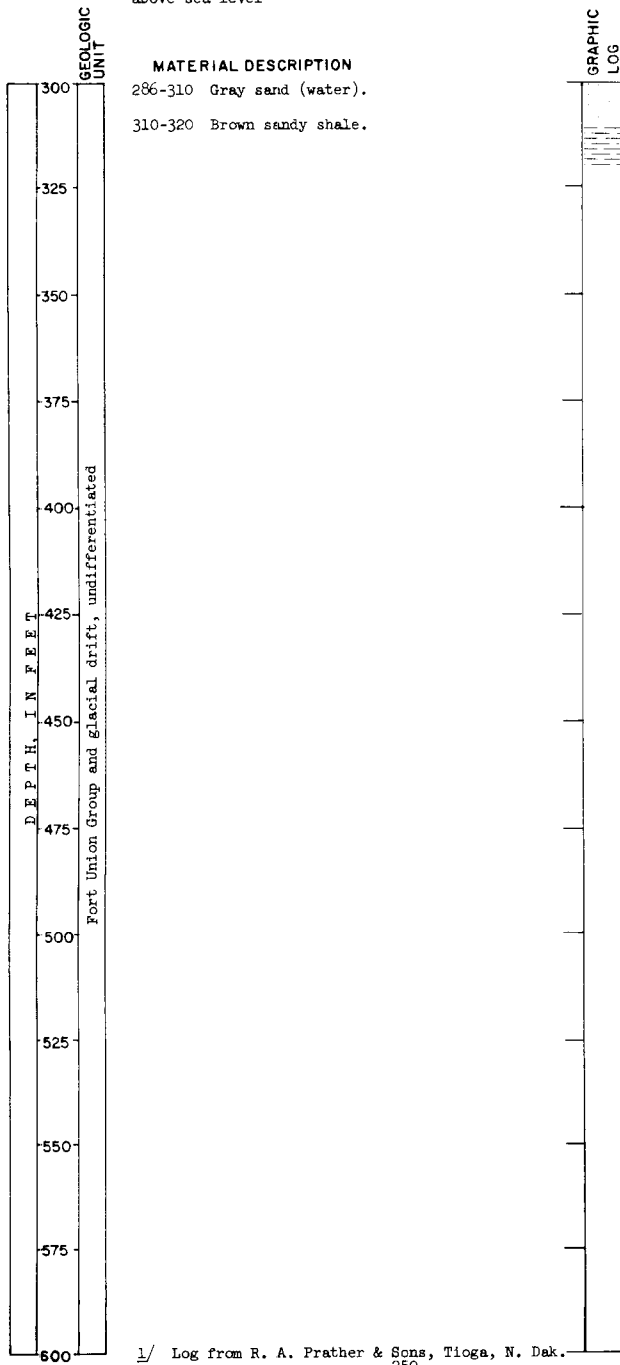


LOCATION: Renville County  
161-84-21dd  
ELEVATION: 1,665 feet  
above sea level

Gas test  
Driller's log <sup>1/</sup>  
(Continued)

DATE DRILLED: November 15, 1963

DEPTH: 320 feet

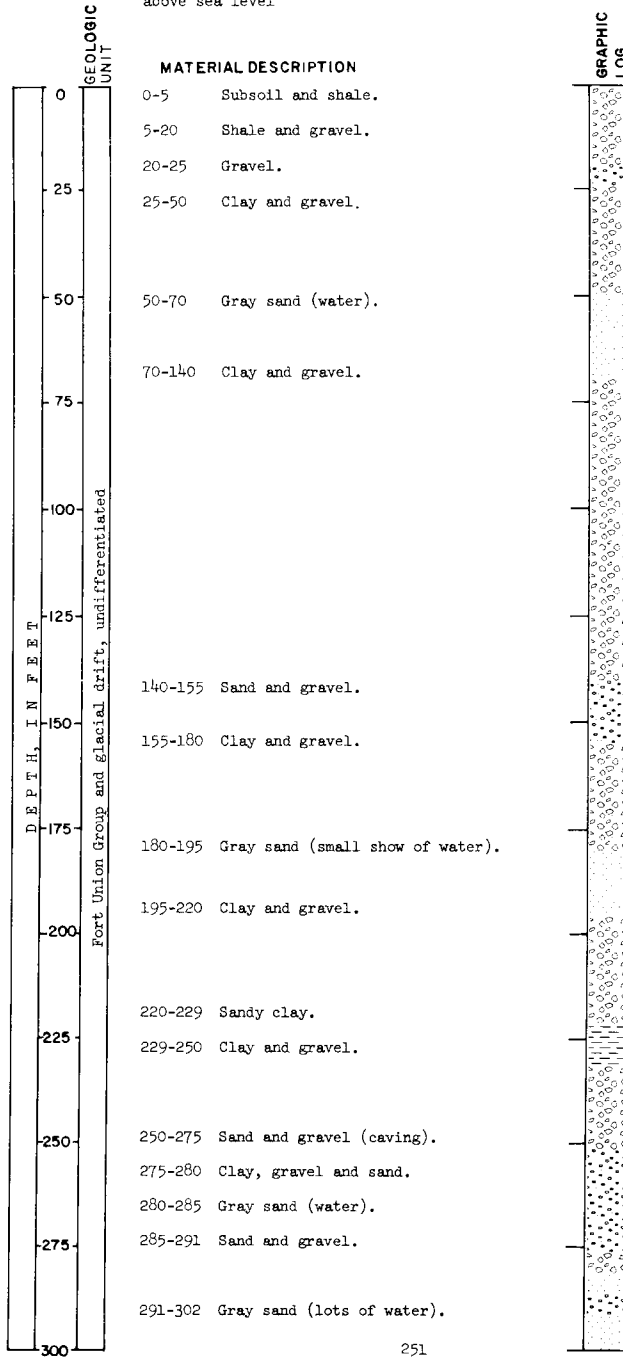


LOCATION: Renville County Gas test  
 161-84-22ab Driller's log<sup>1/</sup>

ELEVATION: 1,663 feet  
 above sea level

DATE DRILLED: November 11, 1953

DEPTH: 325 feet

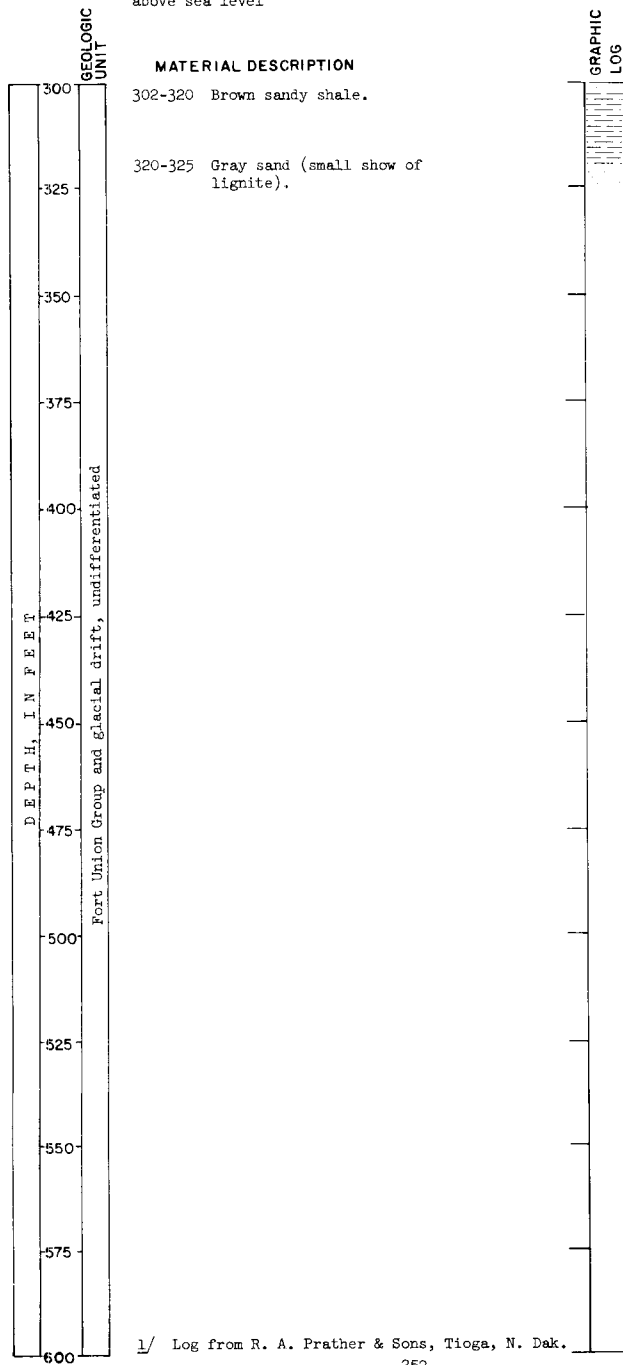


LOCATION: Renville County  
161-84-22ab  
ELEVATION: 1,663 feet  
above sea level

Gas test  
Driller's log<sup>1/</sup>  
(Continued)

DATE DRILLED: November 11, 1953

DEPTH: 325 feet



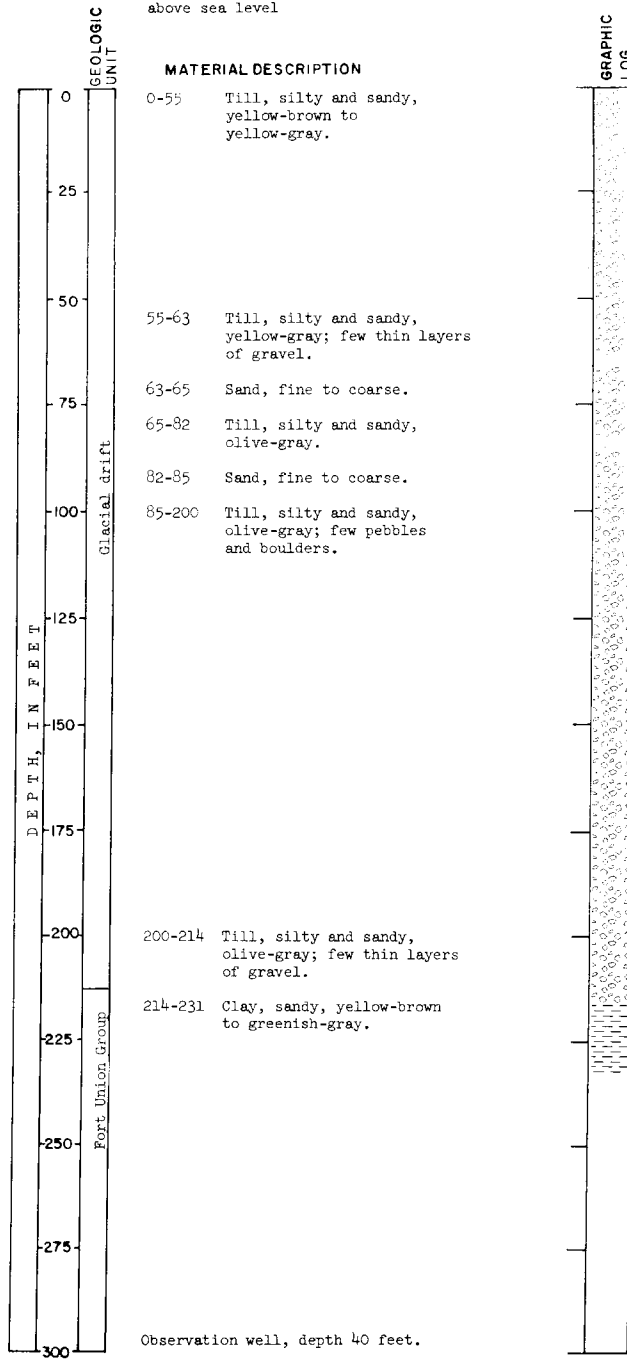
LOCATION: Renville County  
161-85-14add

TEST HOLE 2319

DATE DRILLED: October 21, 1964

ELEVATION: 1,709 feet  
above sea level

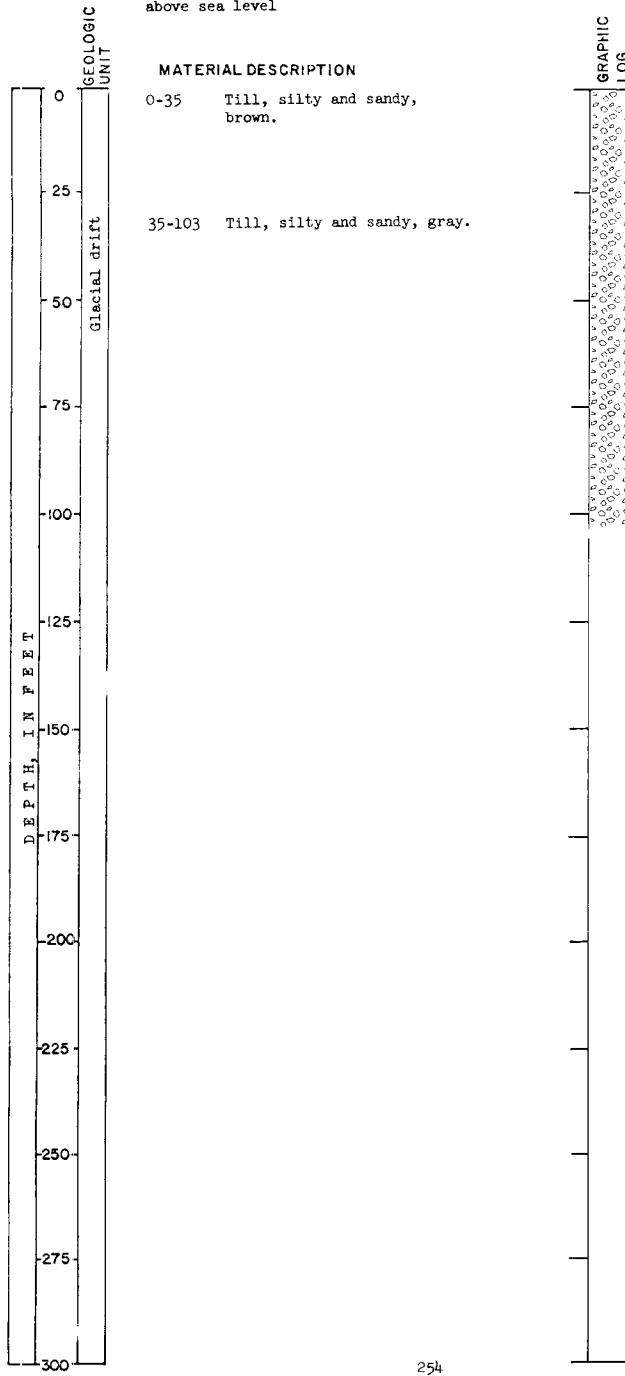
DEPTH: 231 feet





LOCATION: Renville County TEST HOLE  
 161-85-16cc U.S. Air Force  
 ELEVATION: 1,768 feet  
 above sea level

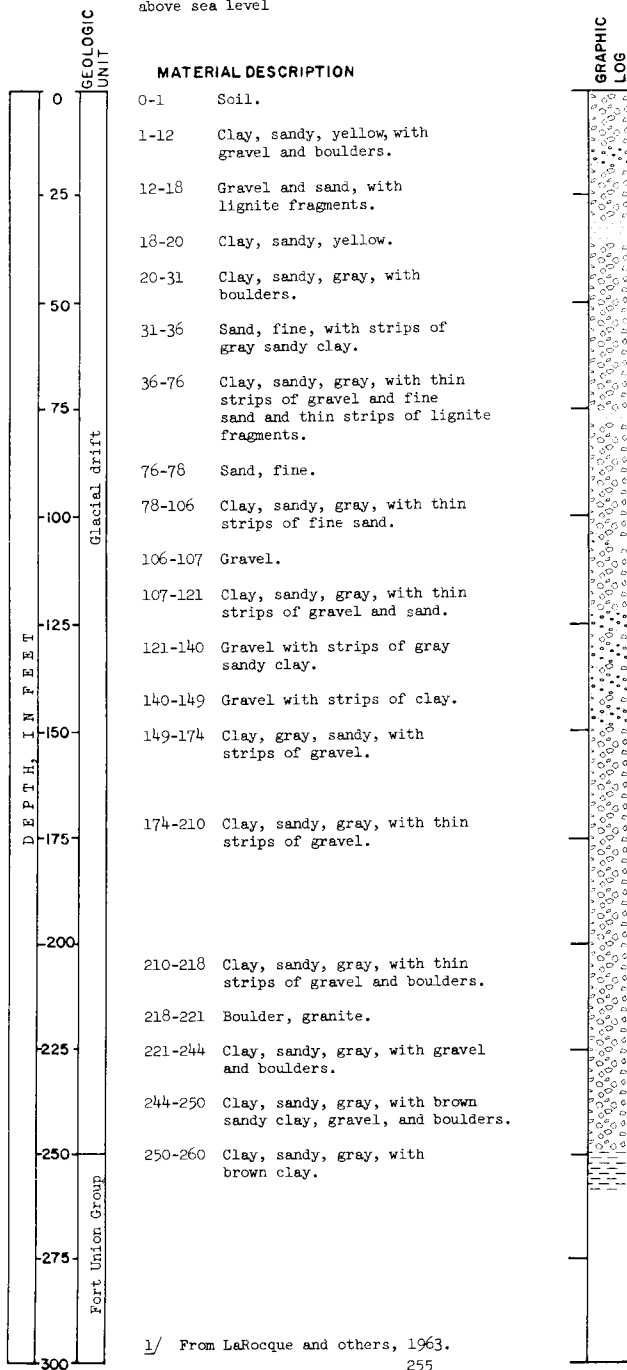
DATE DRILLED: 1961  
 DEPTH: 103 feet



LOCATION: Renville County  
161-85-24aaa U.S. Geol. Survey<sup>1/</sup>

ELEVATION: 1,690 feet  
above sea level

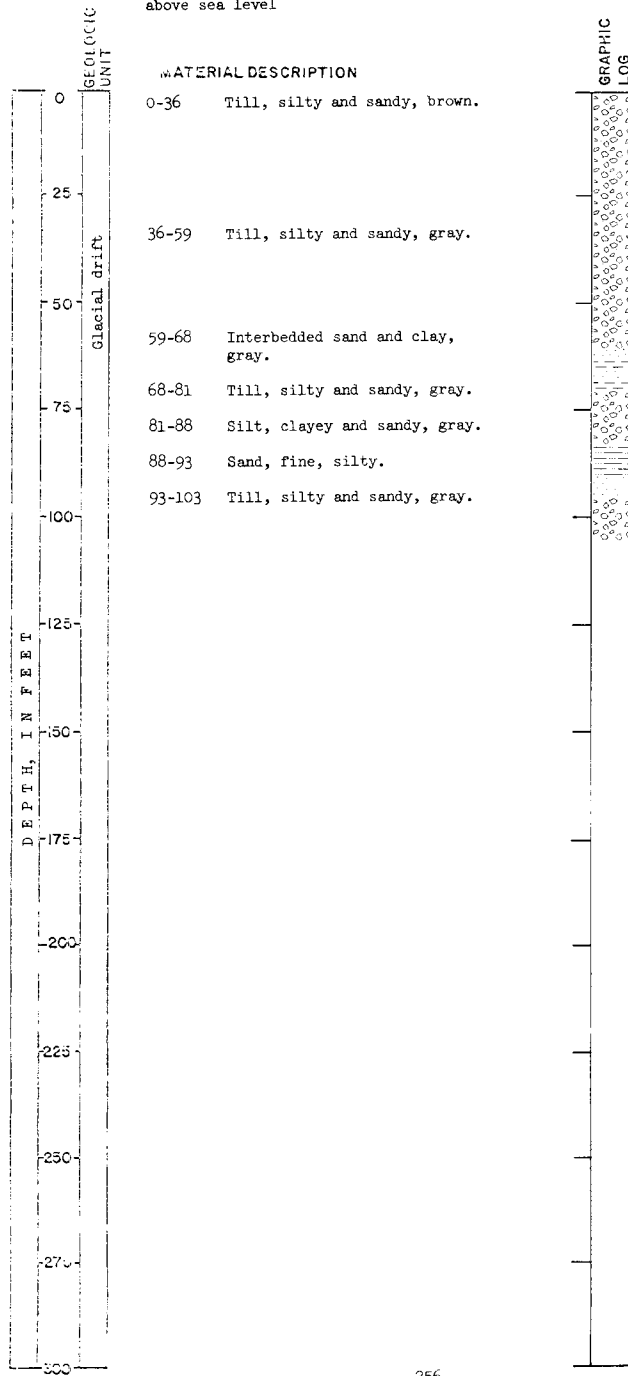
TEST HOLE  
DATE DRILLED: 1947  
DEPTH: 260 feet



<sup>1/</sup> From LaRocque and others, 1963.  
255

LOCATION: Renville County TEST HOLE  
 161-86-28ad U.S. Air Force  
 ELEVATION: 1,841 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 103 feet

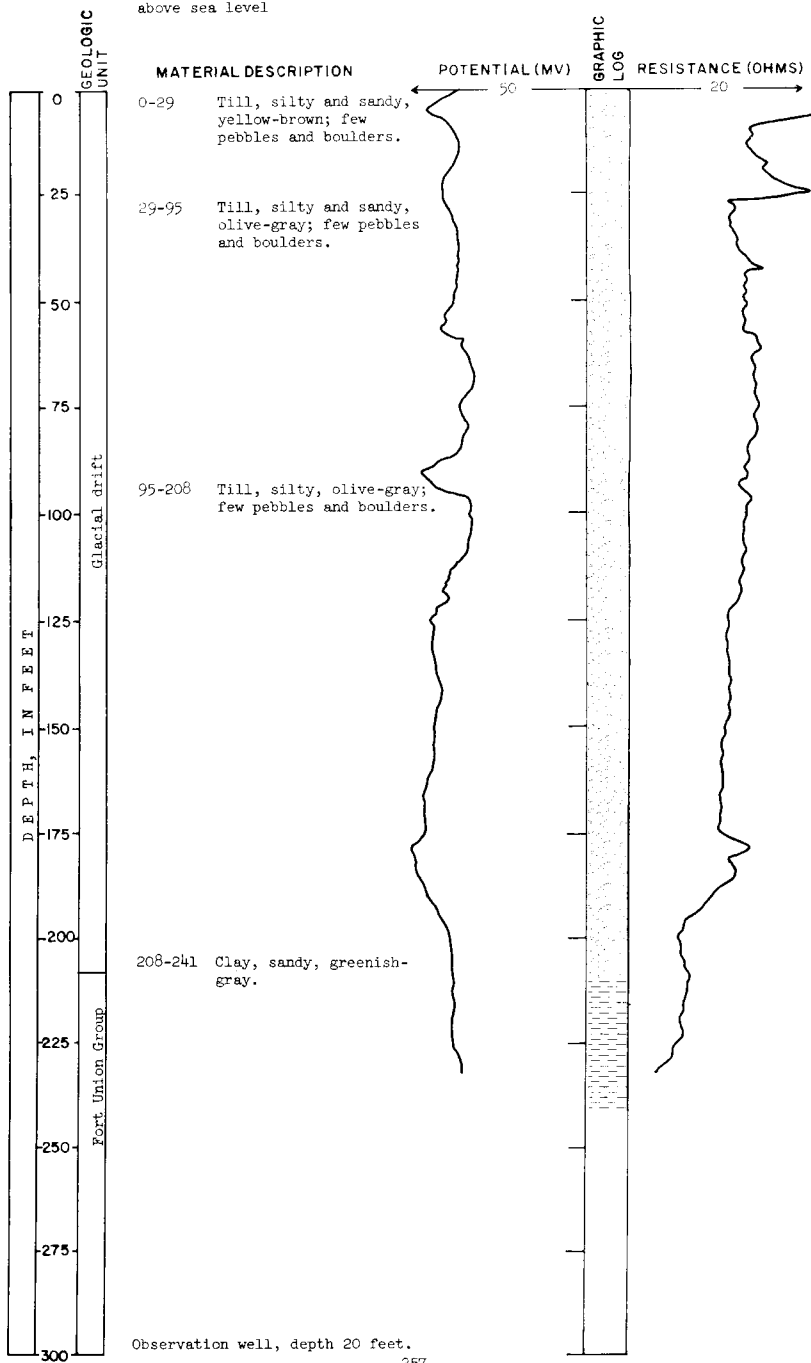


LOCATION: Renville County  
 161-86-33abb  
 ELEVATION: 1,842 feet  
 above sea level

TEST HOLE 2326

DATE DRILLED: November 10, 1964

DEPTH: 241 feet

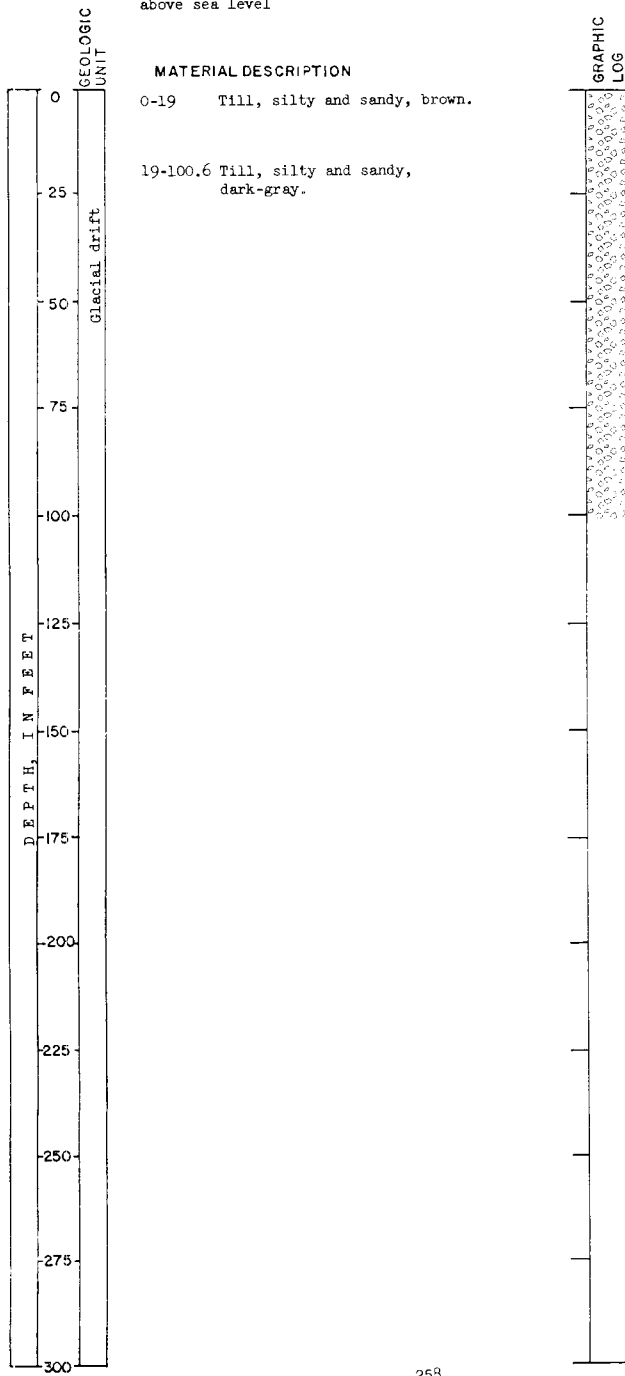


LOCATION: Renville County  
161-87-2aa

ELEVATION: 1,841 feet  
above sea level

TEST HOLE  
U.S. Air Force

DATE DRILLED: 1961  
DEPTH: 100.6 feet



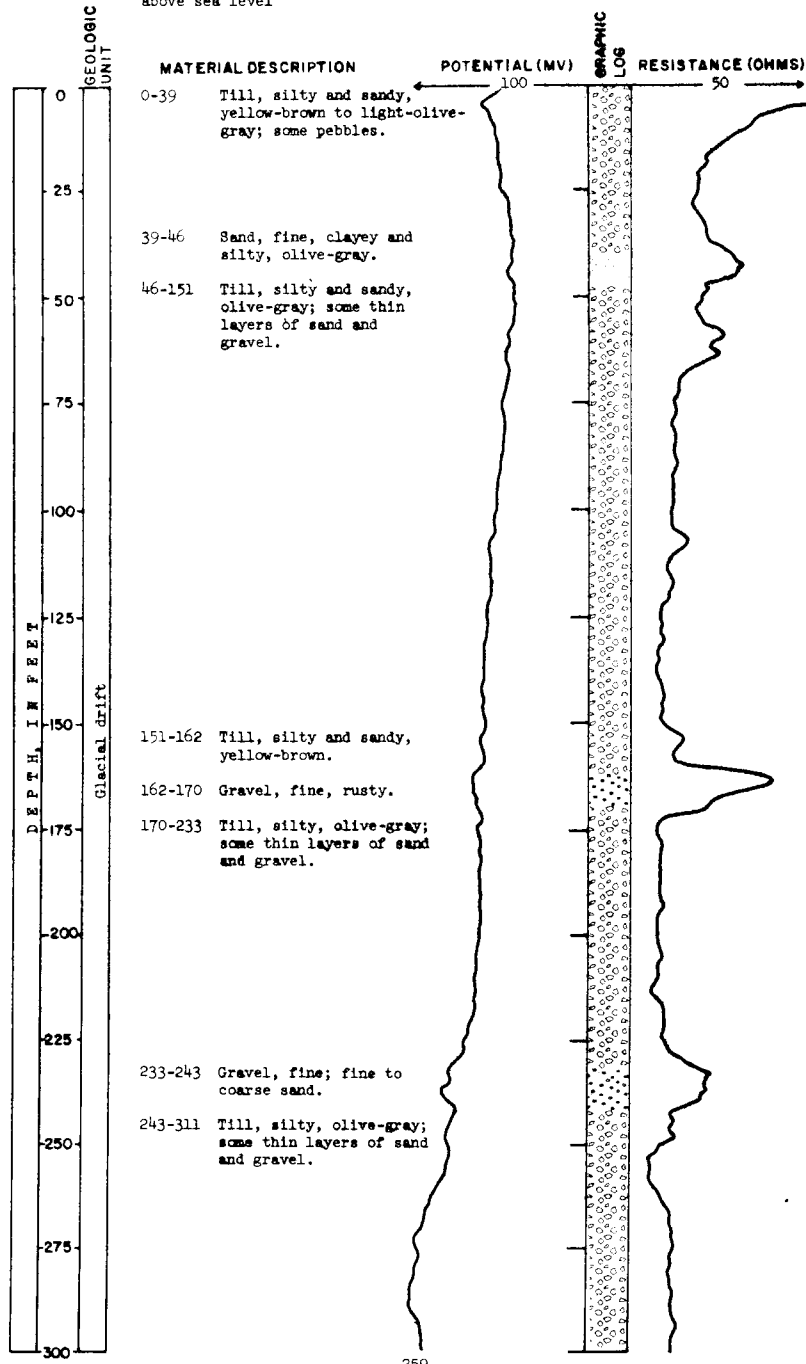
LOCATION: Renville County  
161-87-5aaa

ELEVATION: 1,870 feet  
above sea level

TEST HOLE 3337

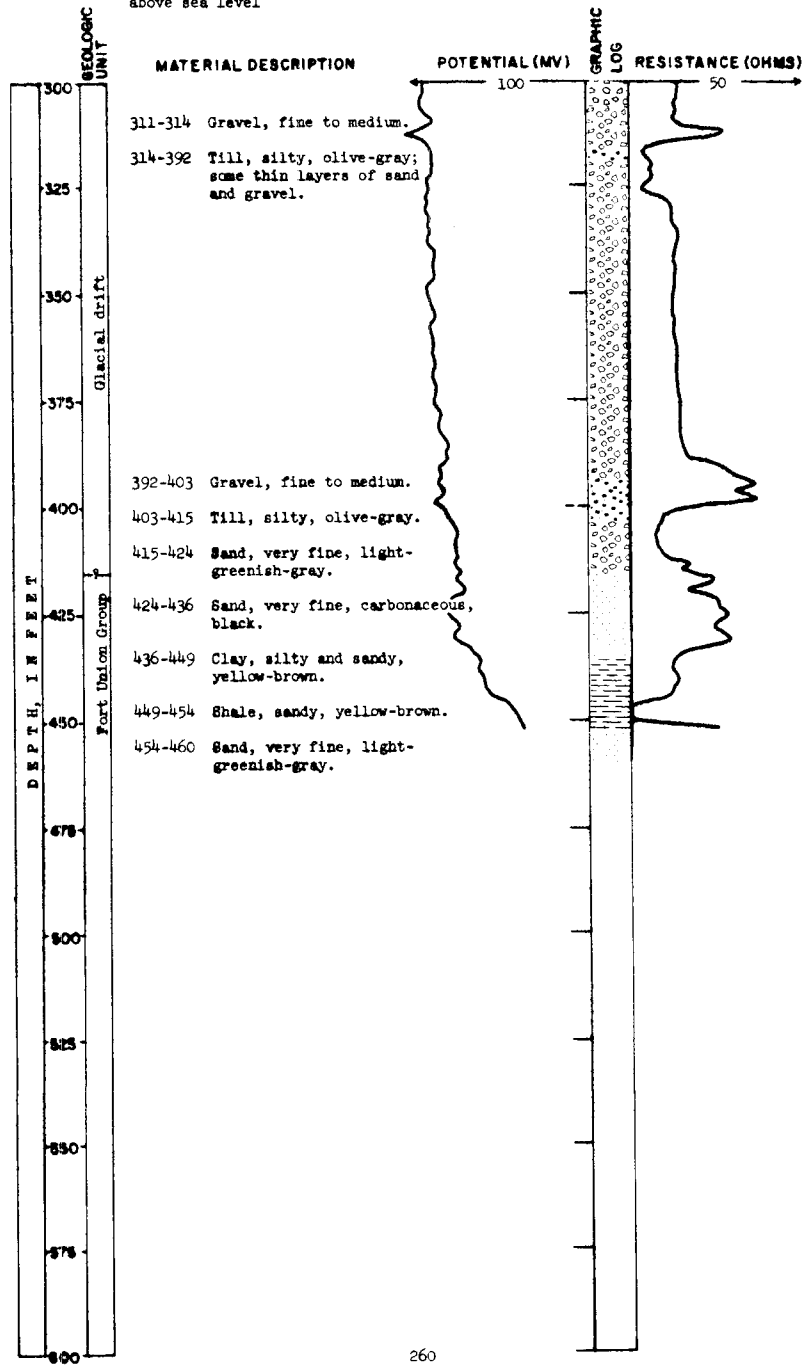
DATE DRILLED: June 15, 1966

DEPTH: 460 feet



Renville County TEST HOLE 3337  
 LOCATION: 161-87-5aaa (Continued)  
 ELEVATION: 1,870 feet  
 above sea level

DATE DRILLED: June 15, 1966  
 DEPTH: 460 feet



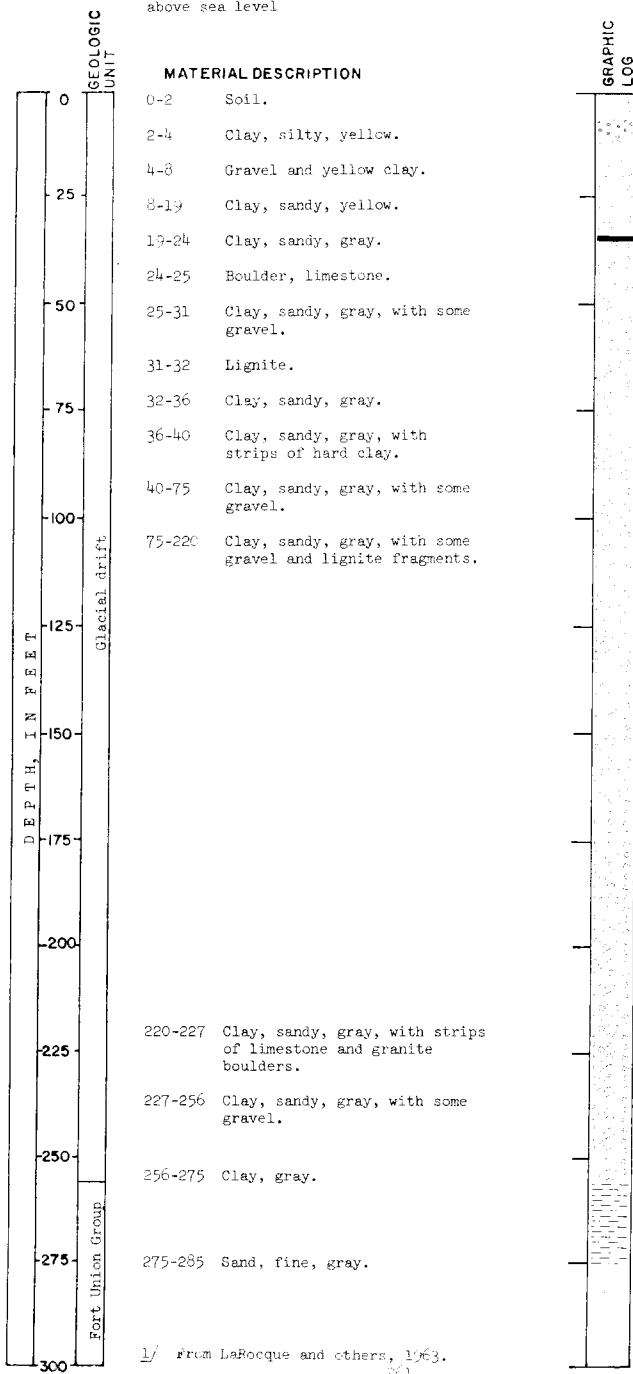
**LOCATION:** Renville County  
 161-87-12ddd U.S. Geol. Survey <sup>1/</sup>

**ELEVATION:** 1837 feet  
 above sea level

**TEST HOLE**

**DATE DRILLED:** 1947

**DEPTH:** 285 feet





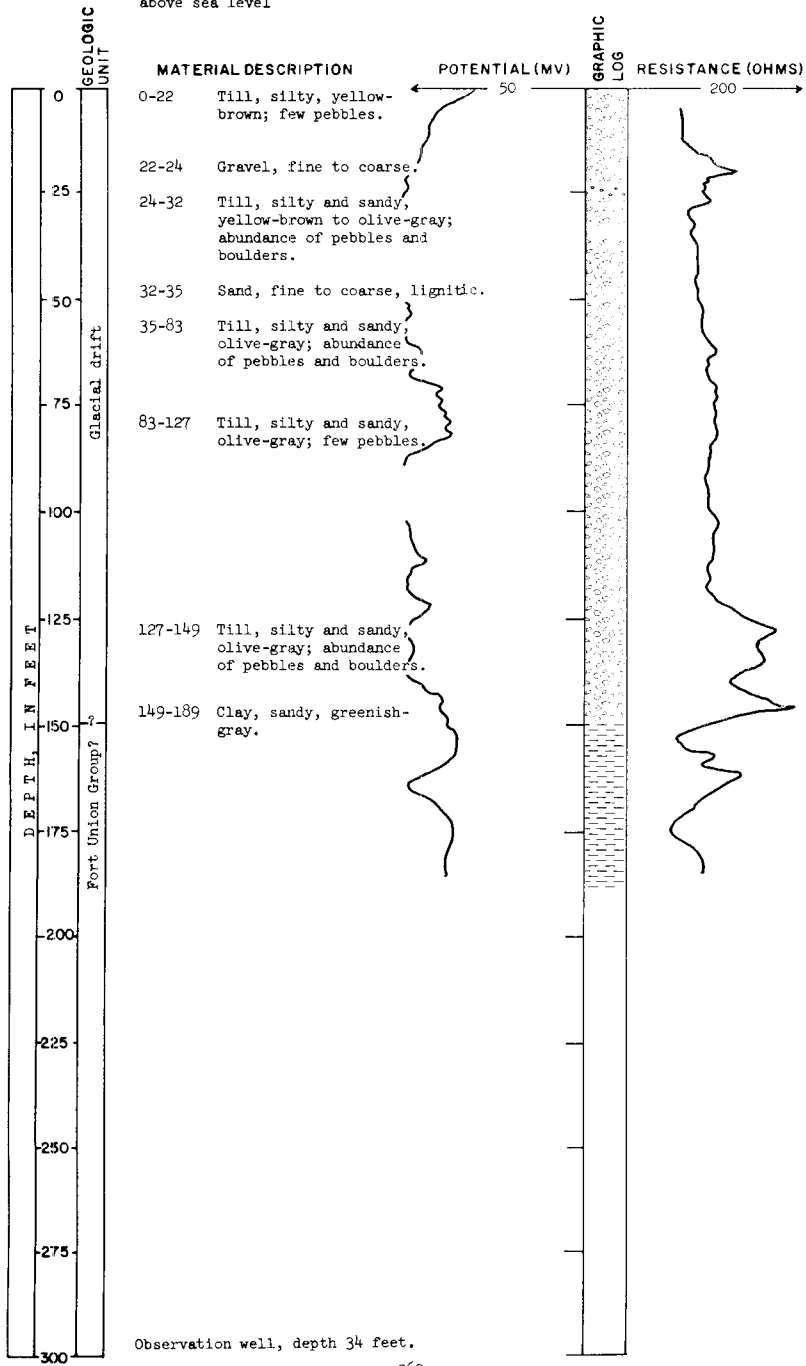
LOCATION: Renville County  
161-87-21bbb

ELEVATION: 1,870 feet  
above sea level

TEST HOLE 2325

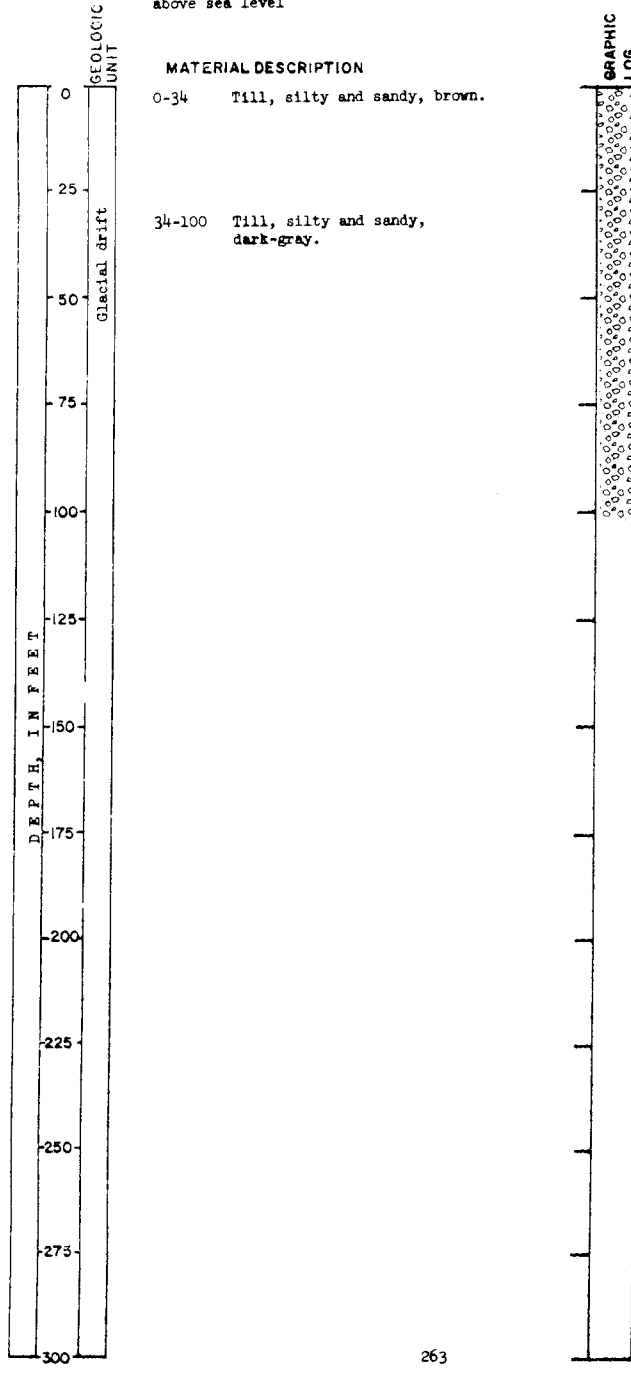
DATE DRILLED: November 10, 1964

DEPTH: 189 feet



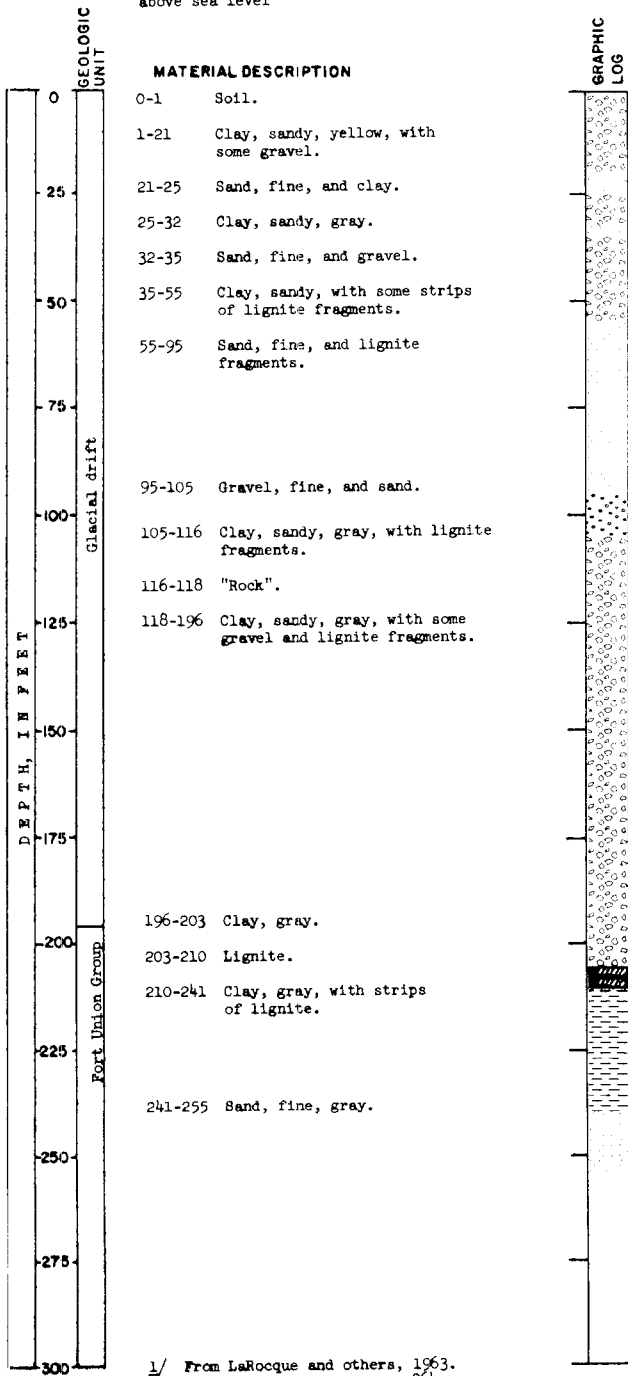
LOCATION: Renville County TEST HOLE  
161-87-28bb U.S. Air Force  
ELEVATION: 1,881 feet  
above sea level

DATE DRILLED: 1961  
DEPTH: 100 feet



Renville County      **TEST HOLE**  
 LOCATION: 161-87-32aaa      U.S. Geol. Survey<sup>1/</sup>  
 ELEVATION: 1,890 feet  
                  above sea level

DATE DRILLED: 1947  
 DEPTH: 255 feet



<sup>1/</sup> From LaRocque and others, 1963, 264

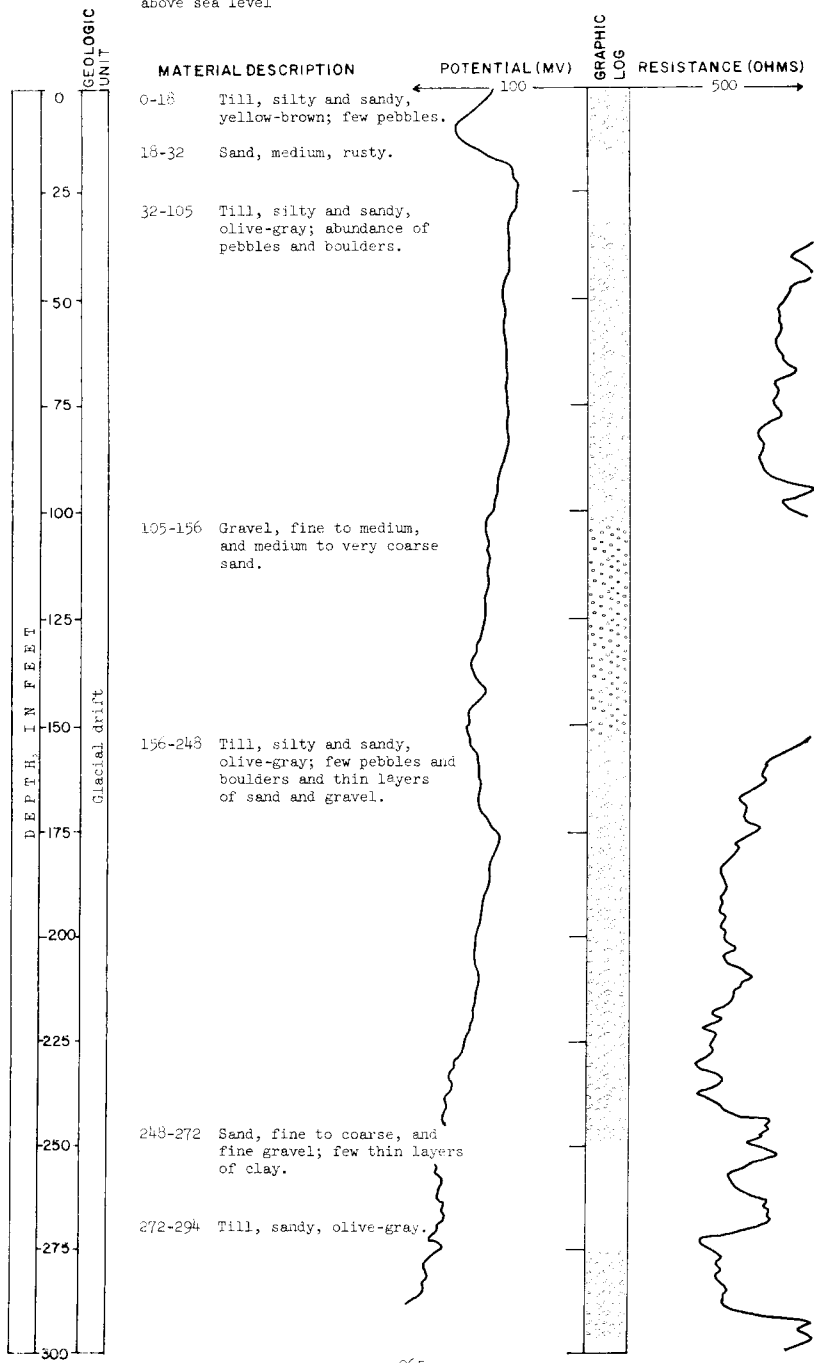
LOCATION: Ward County  
161-88-11bbb

ELEVATION: 1,907 feet  
above sea level

TEST HOLE 3256

DATE DRILLED: August 17, 1965

DEPTH: 470 feet

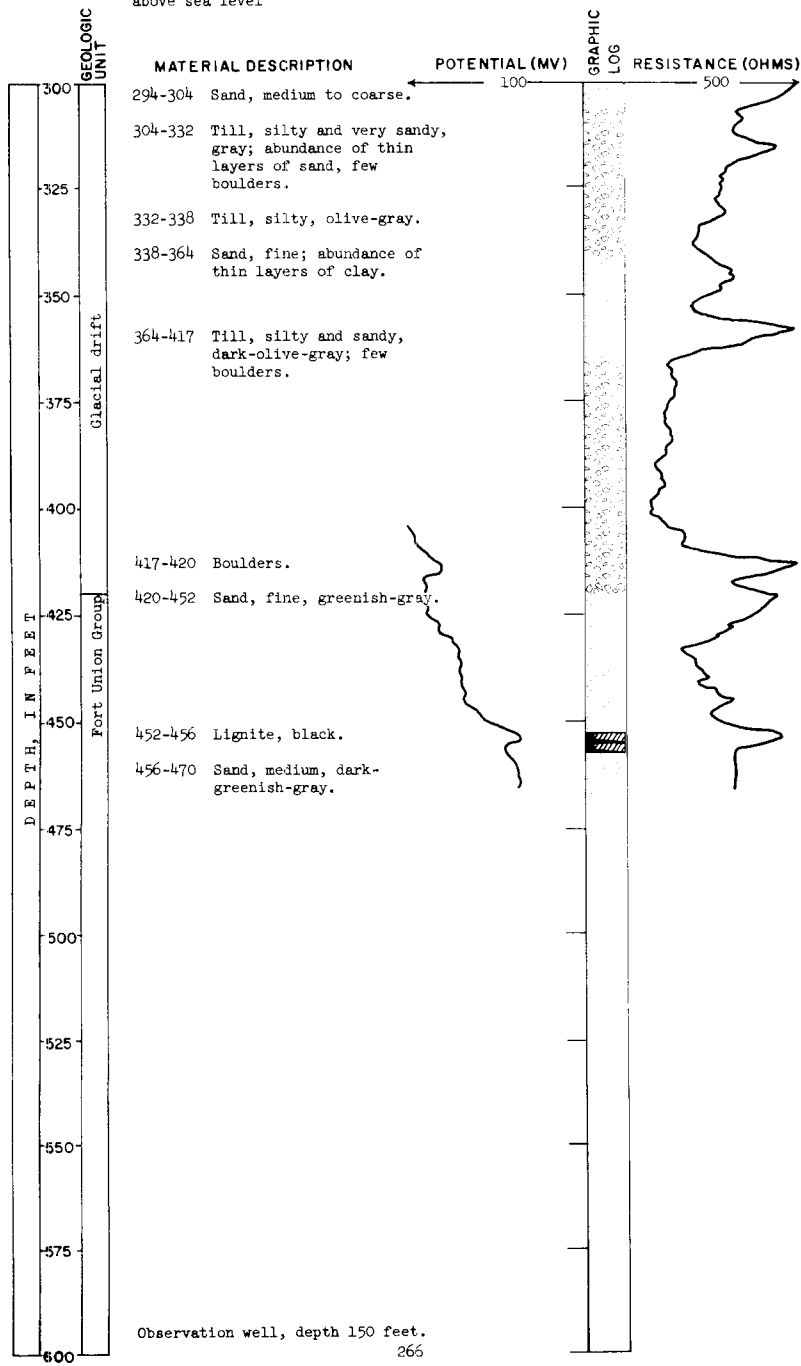


LOCATION: Ward County  
161-88-11bbb

ELEVATION: 1,907 feet  
above sea level

TEST HOLE 3256  
(Continued)

DATE DRILLED: August 17, 1965  
DEPTH: 470 feet



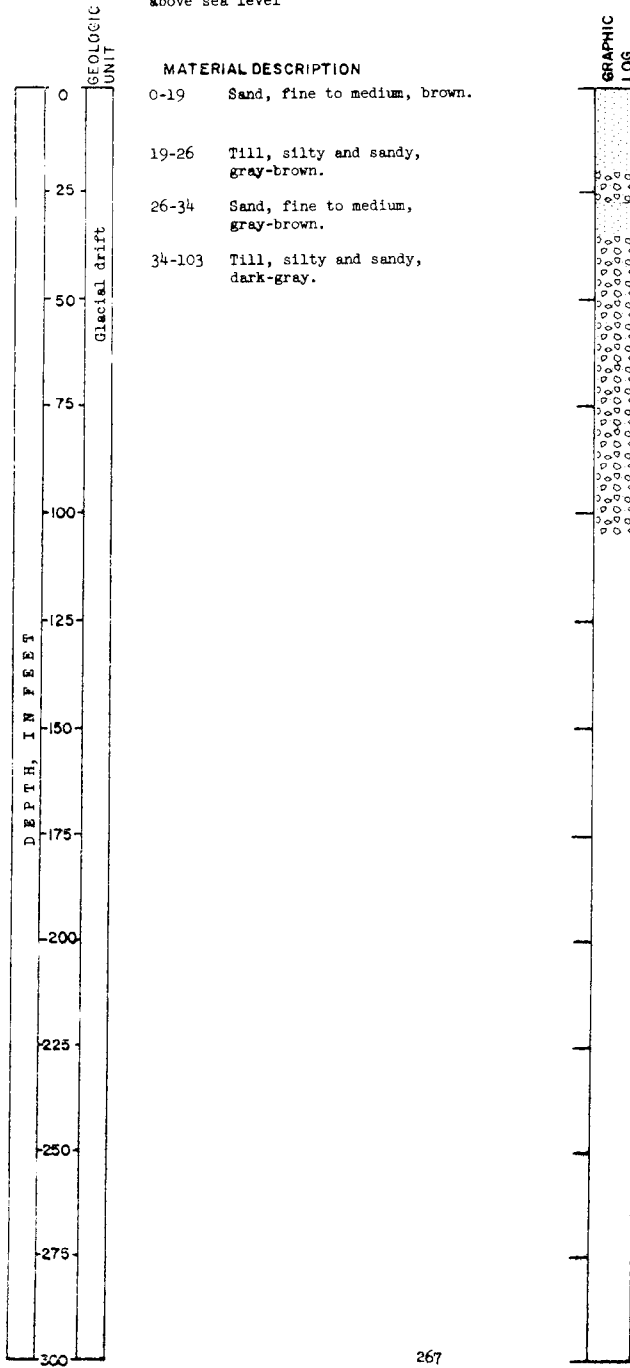
LOCATION: Ward County  
 161-88-22ab

TEST HOLE  
 U.S. Air Force

ELEVATION: 1,923 feet  
 above sea level

DATE DRILLED: 1961

DEPTH: 103 feet



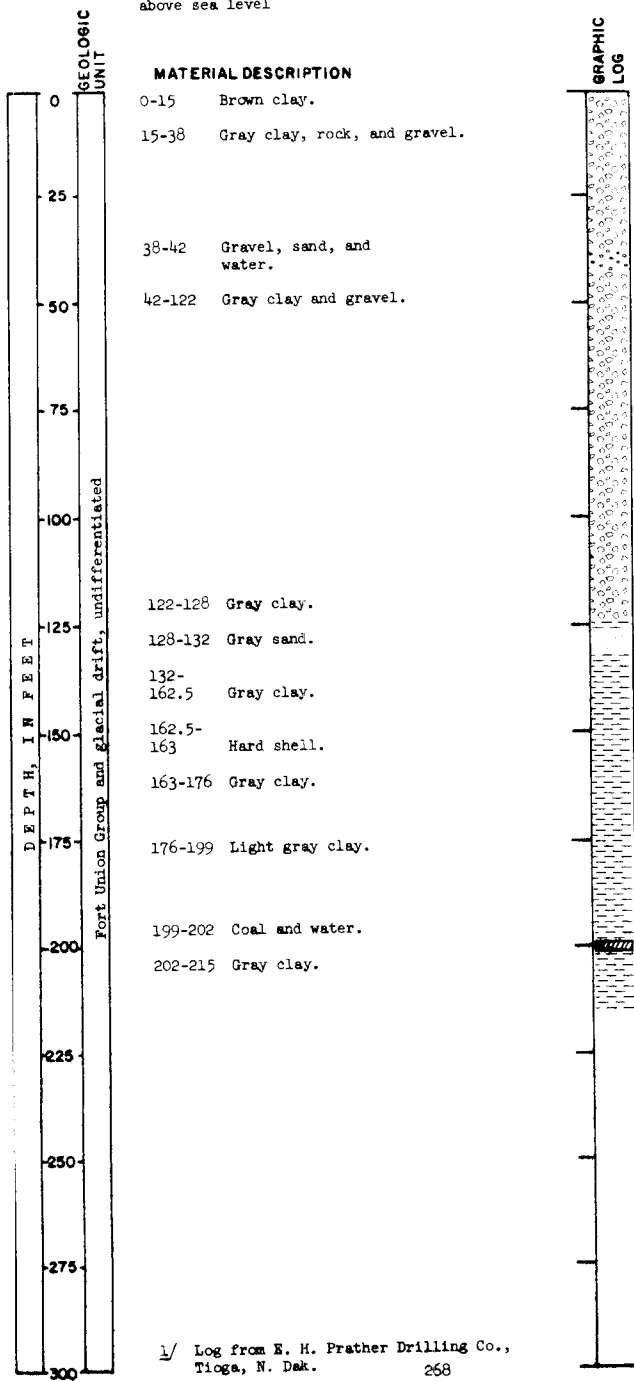
LOCATION: Ward County  
161-88-26bbb

ELEVATION: 1,909 feet  
above sea level

Dale Byrd<sup>1/</sup>

DATE DRILLED: June 6, 1965

DEPTH: 215 feet

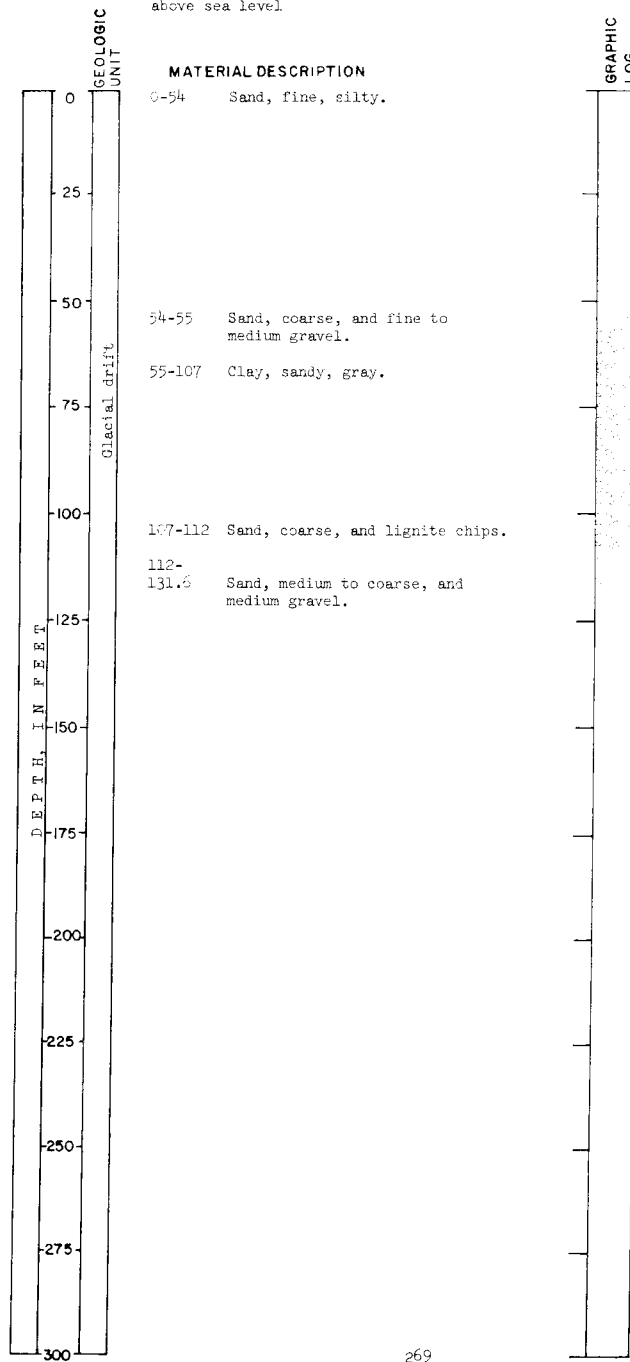


<sup>1/</sup> Log from E. H. Prather Drilling Co.,  
Tioga, N. Dak.

**LOCATION:** Ward County U.S. Bureau of Reclamation  
 161-58-31da test hole  
**ELEVATION:** 1,800 feet  
 above sea level

**DATE DRILLED:** January 14, 1949

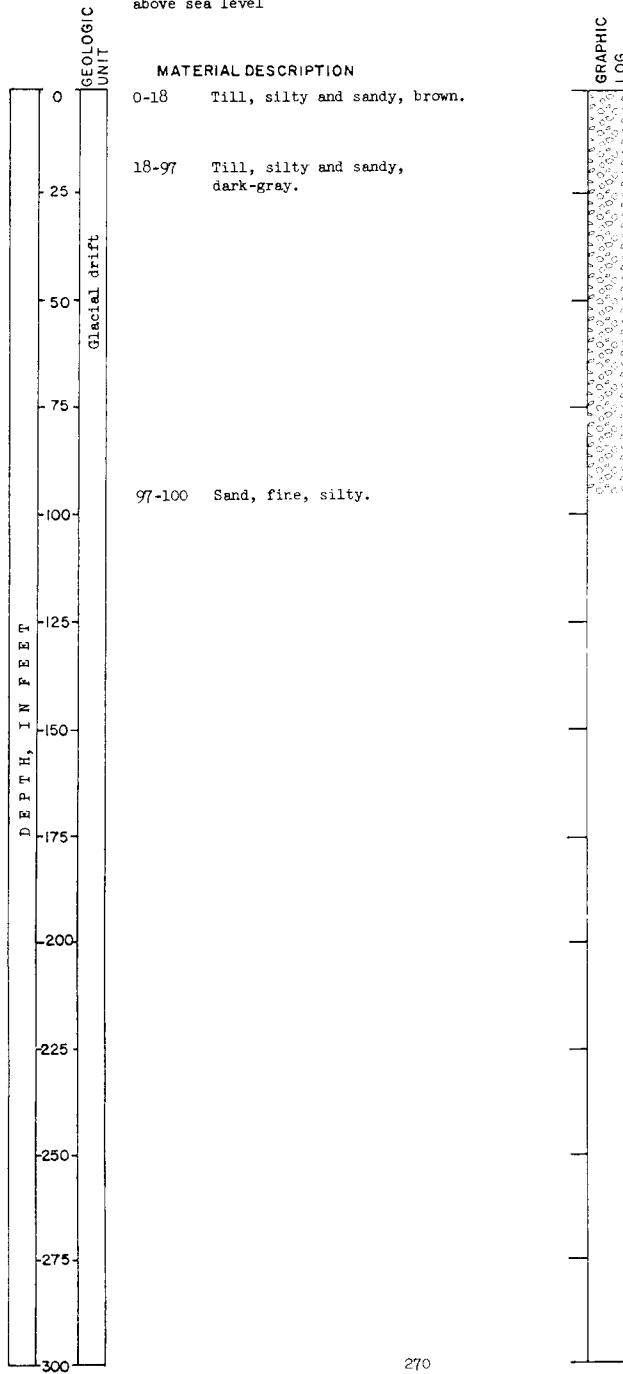
**DEPTH:** 130.6 feet





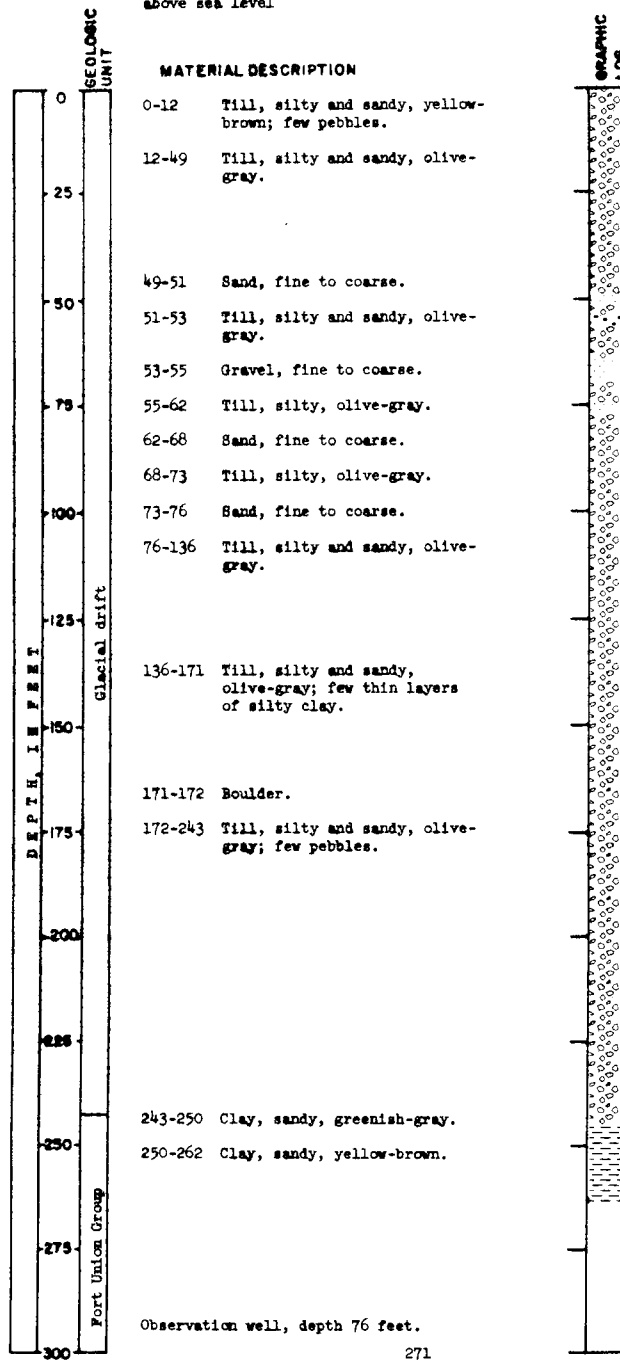
LOCATION: Renville County      TEST HOLE  
 162-84-4ad      U.S. Air Force  
 ELEVATION: 1,631 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 100 feet



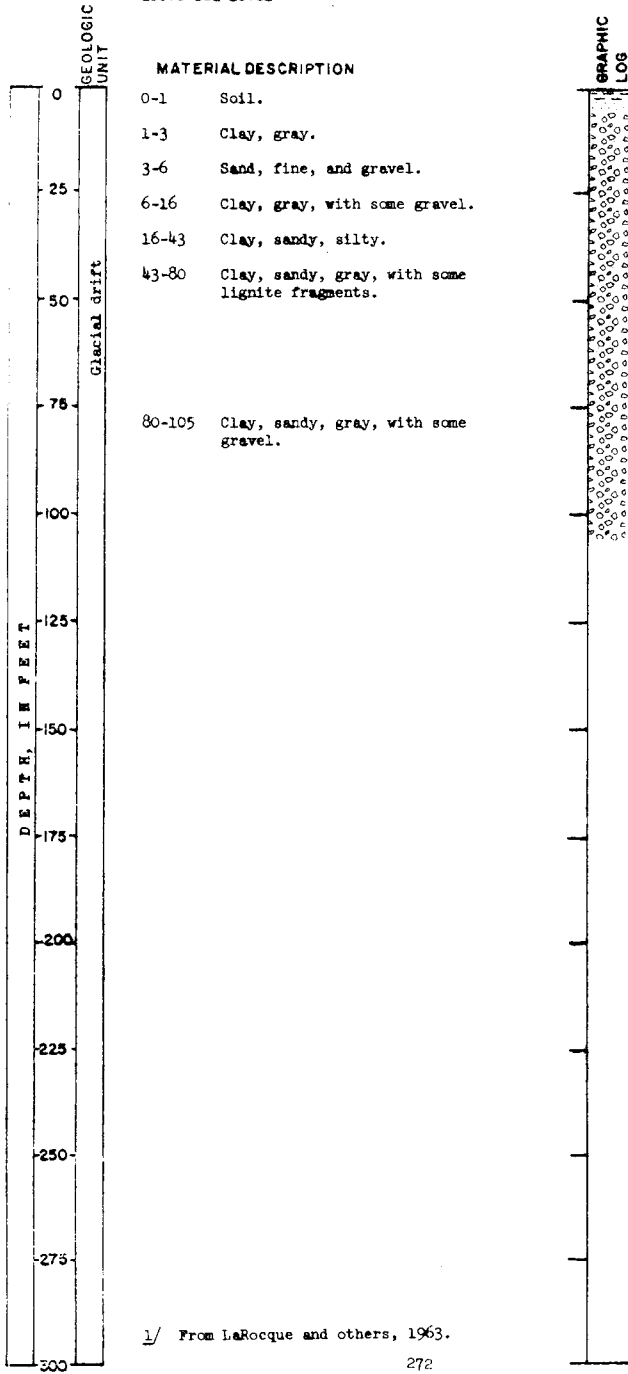
LOCATION: Renville County TEST HOLE 2320  
 162-84-8ddc  
 ELEVATION: 1,626 feet  
 above sea level

DATE DRILLED: October 22, 1964  
 DEPTH: 262 feet



LOCATION: Renville County TEST HOLE  
 162-84-25dd1 U.S. Geol. Survey<sup>1/</sup>  
 ELEVATION: 1,636 feet  
 above sea level

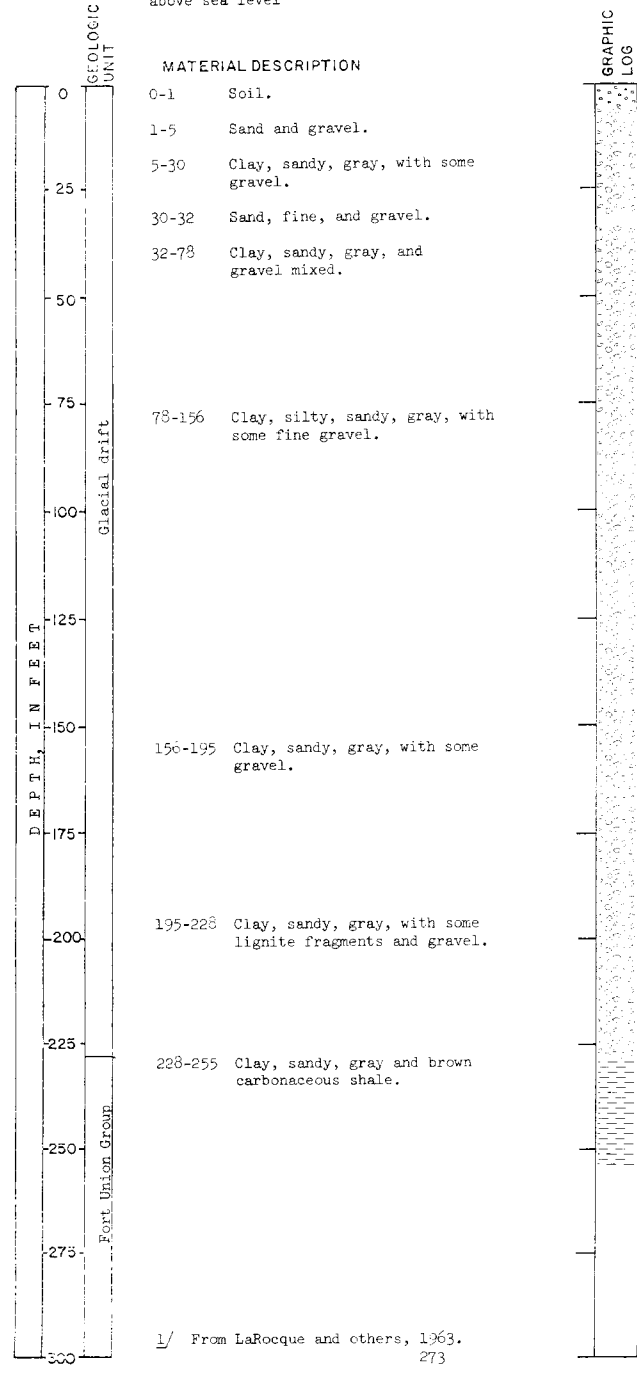
DATE DRILLED: 1947  
 DEPTH: 105 feet



LOCATION: Renville County  
 162-84-25ad2 U.S. Geol. Survey<sup>1/</sup>  
 ELEVATION: 1,636 feet  
 above sea level

TEST HOLE

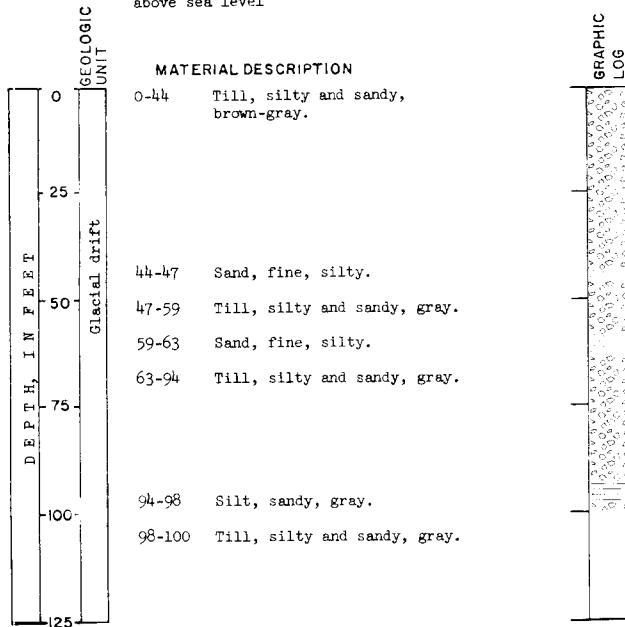
DATE DRILLED: 1947  
 DEPTH: 255 feet



<sup>1/</sup> From LaRocque and others, 1963.  
 273

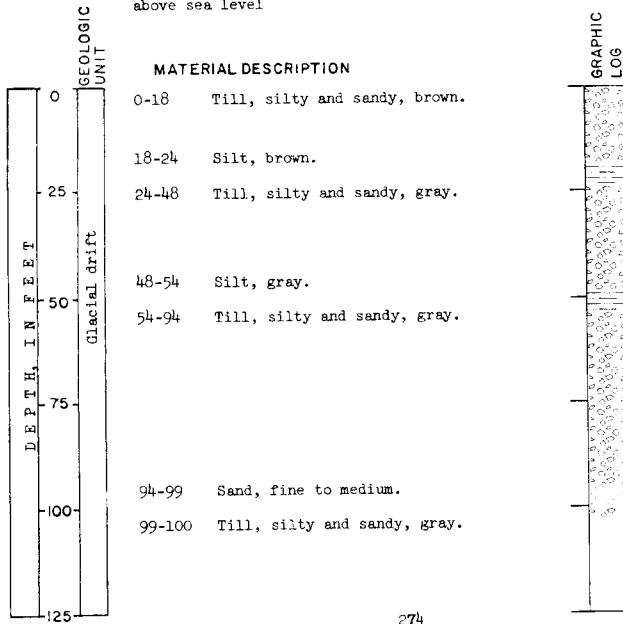
LOCATION: Renville County TEST HOLE  
 162-84-26da U.S. Air Force  
 ELEVATION: 1,617 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 100 feet

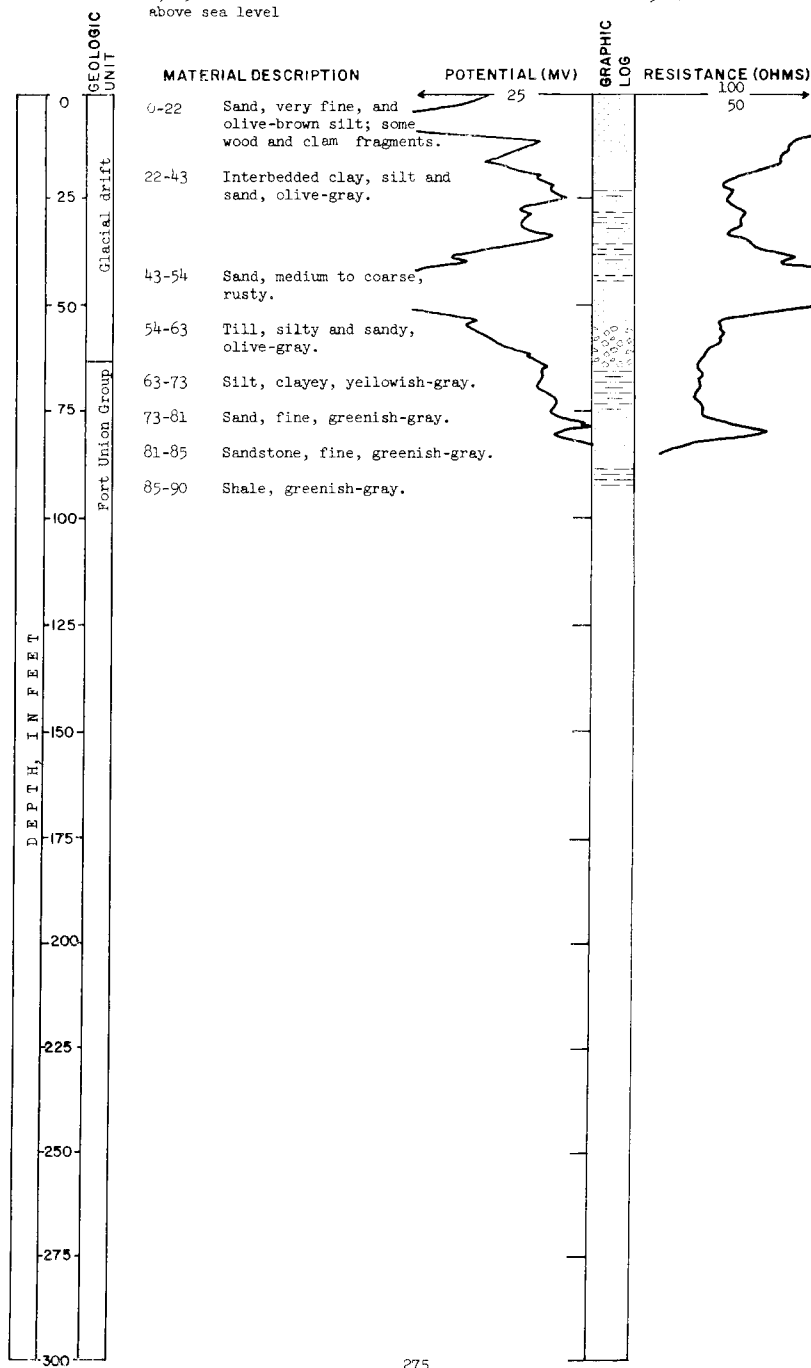


LOCATION: Renville County TEST HOLE  
 162-85-25da U.S. Air Force  
 ELEVATION: 1,684 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 100 feet



LOCATION: Renville County TEST HOLE 3339 DATE DRILLED: June 17, 1966  
 162-86-6ddd  
 ELEVATION: 1,609 feet above sea level DEPTH: 90 feet

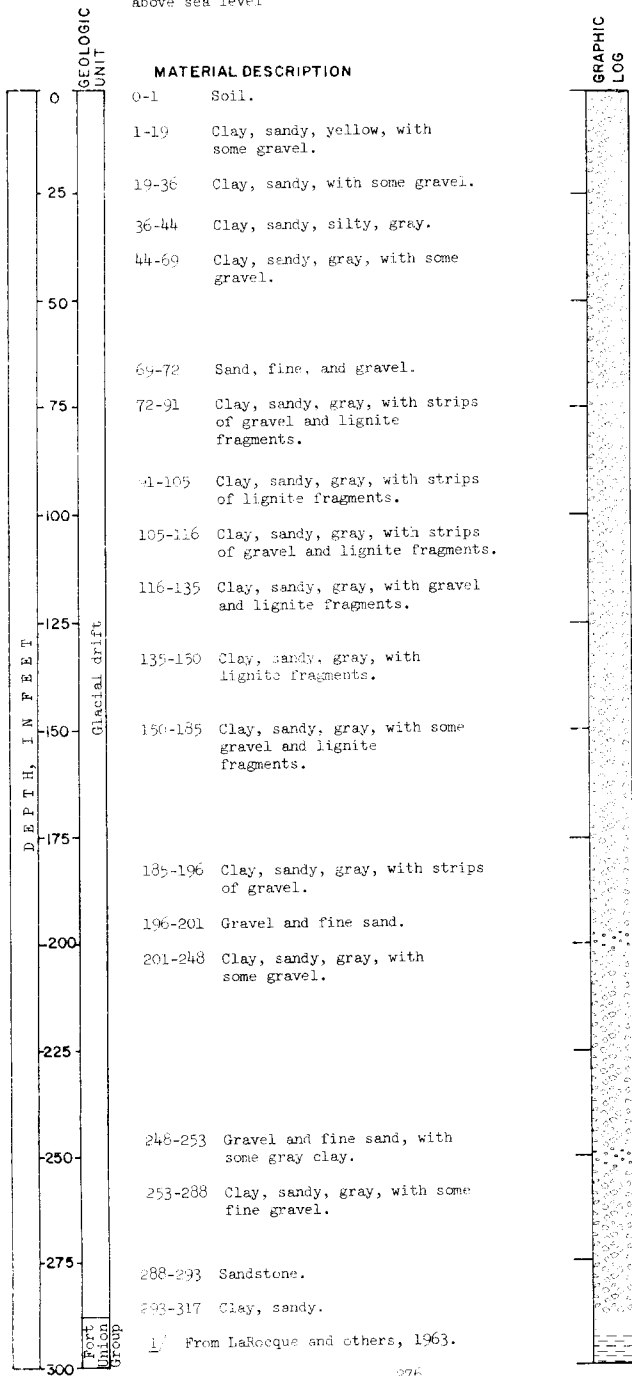


LOCATION: Renville County  
 162-86-12ddd U.S. Geol. Survey<sup>1/</sup>

ELEVATION: 1,757 feet  
 above sea level

DATE DRILLED: 1947

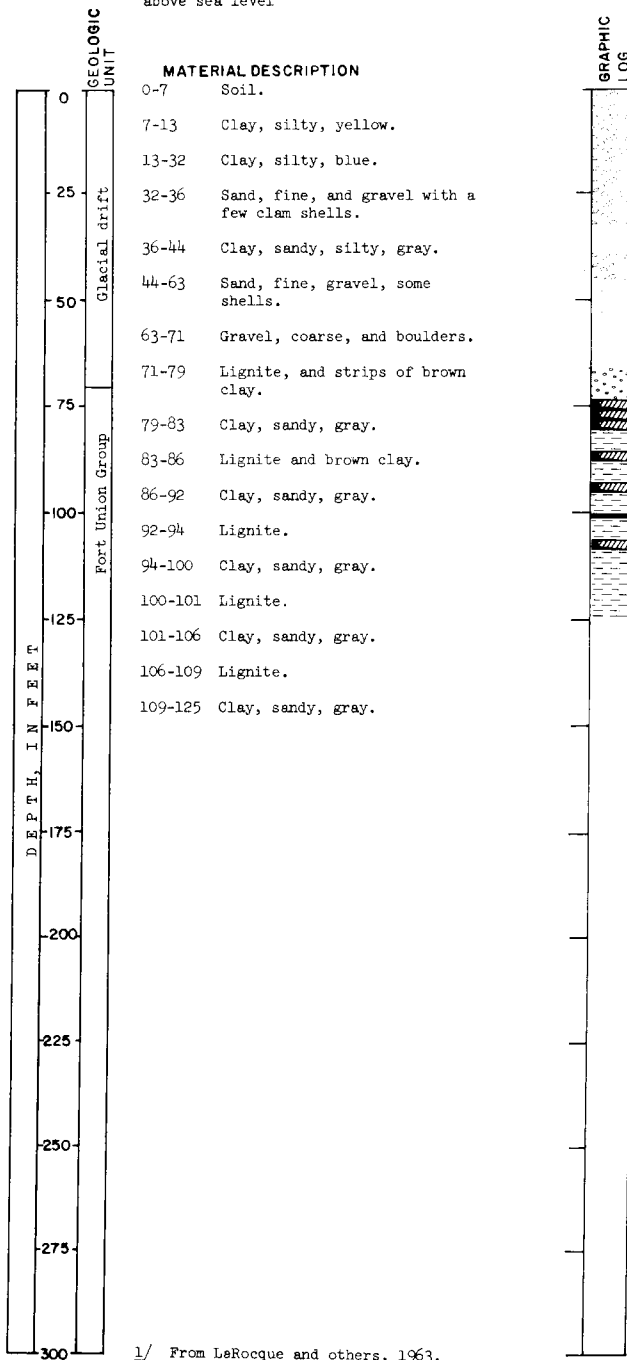
DEPTH: 317 feet



**LOCATION:** Renville County  
 162-86-28ccd U.S. Geol. Survey <sup>1/</sup>  
**ELEVATION:** 1,601 feet  
 above sea level

**DATE DRILLED:** 1947

**DEPTH:** 125 feet

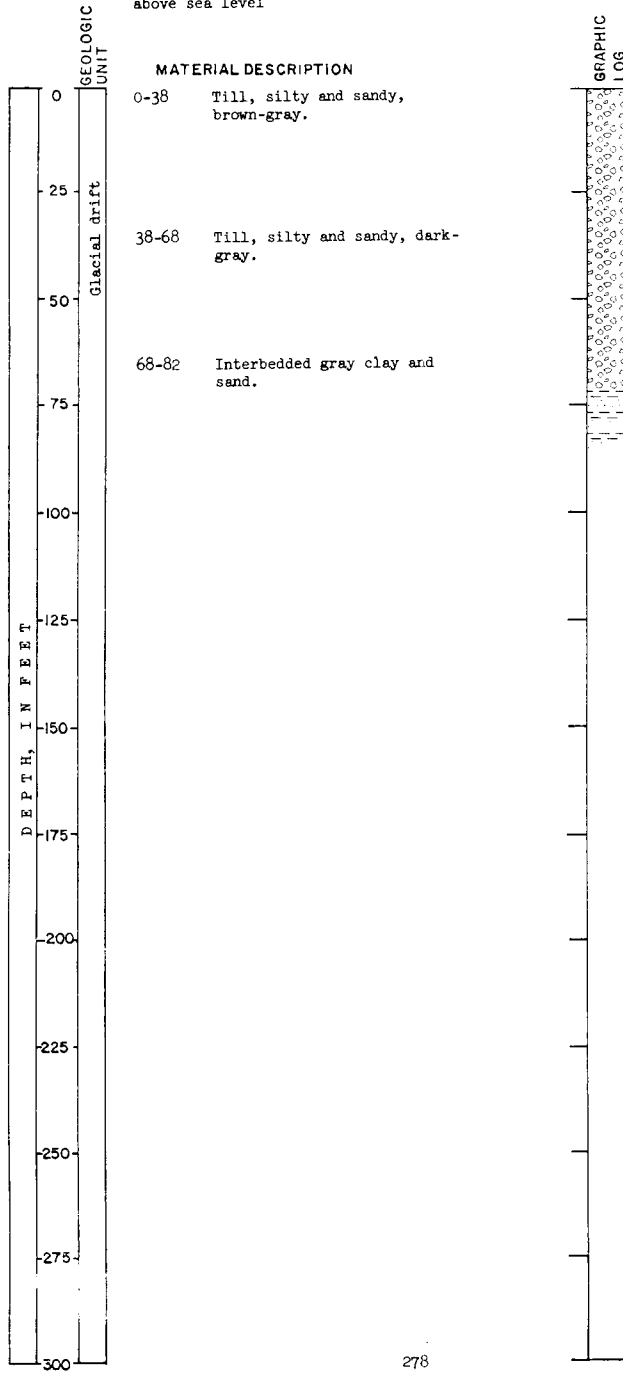


<sup>1/</sup> From LaRocque and others, 1963.  
277

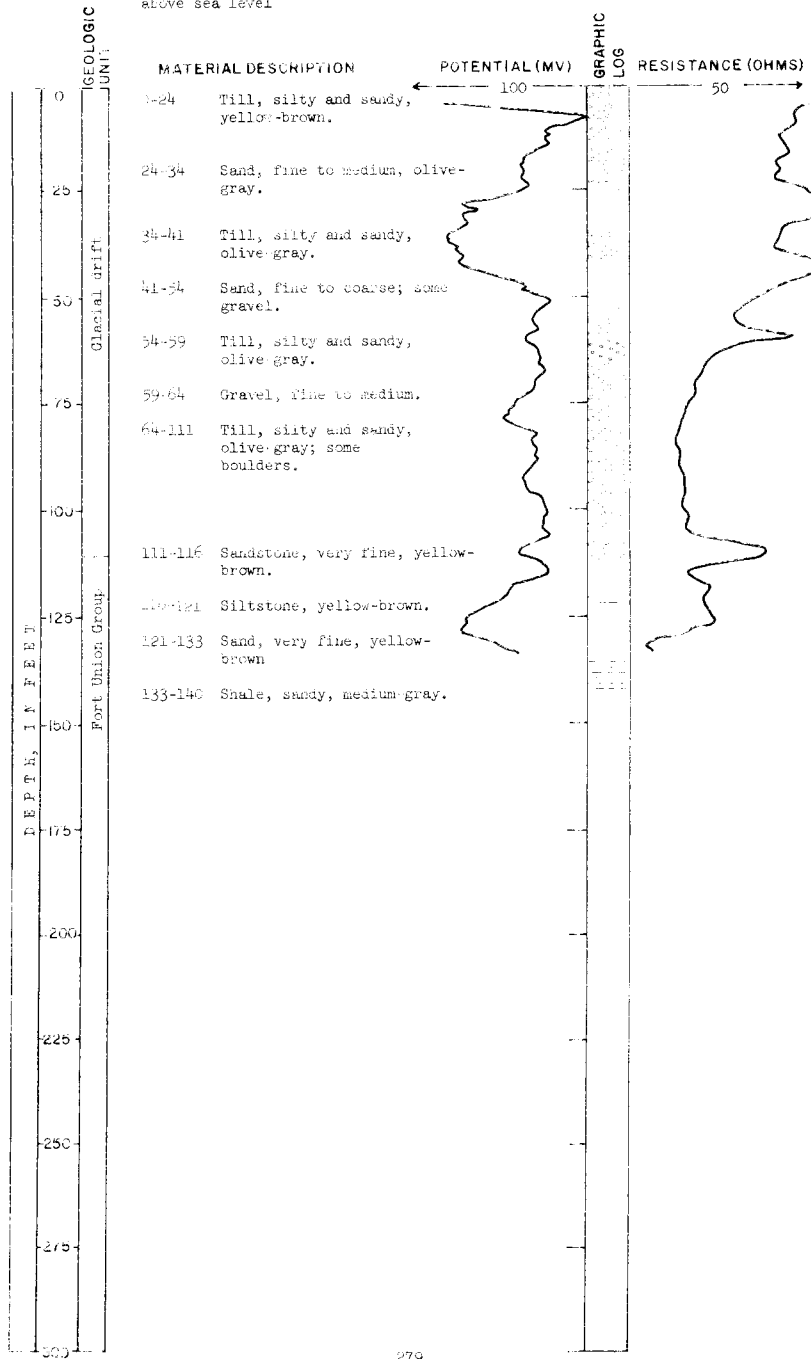


LOCATION: Renville County TEST HOLE  
 162-86-36bb U.S. Air Force  
 ELEVATION: 1,779 feet  
 above sea level

DATE DRILLED: 1961  
 DEPTH: 82 feet

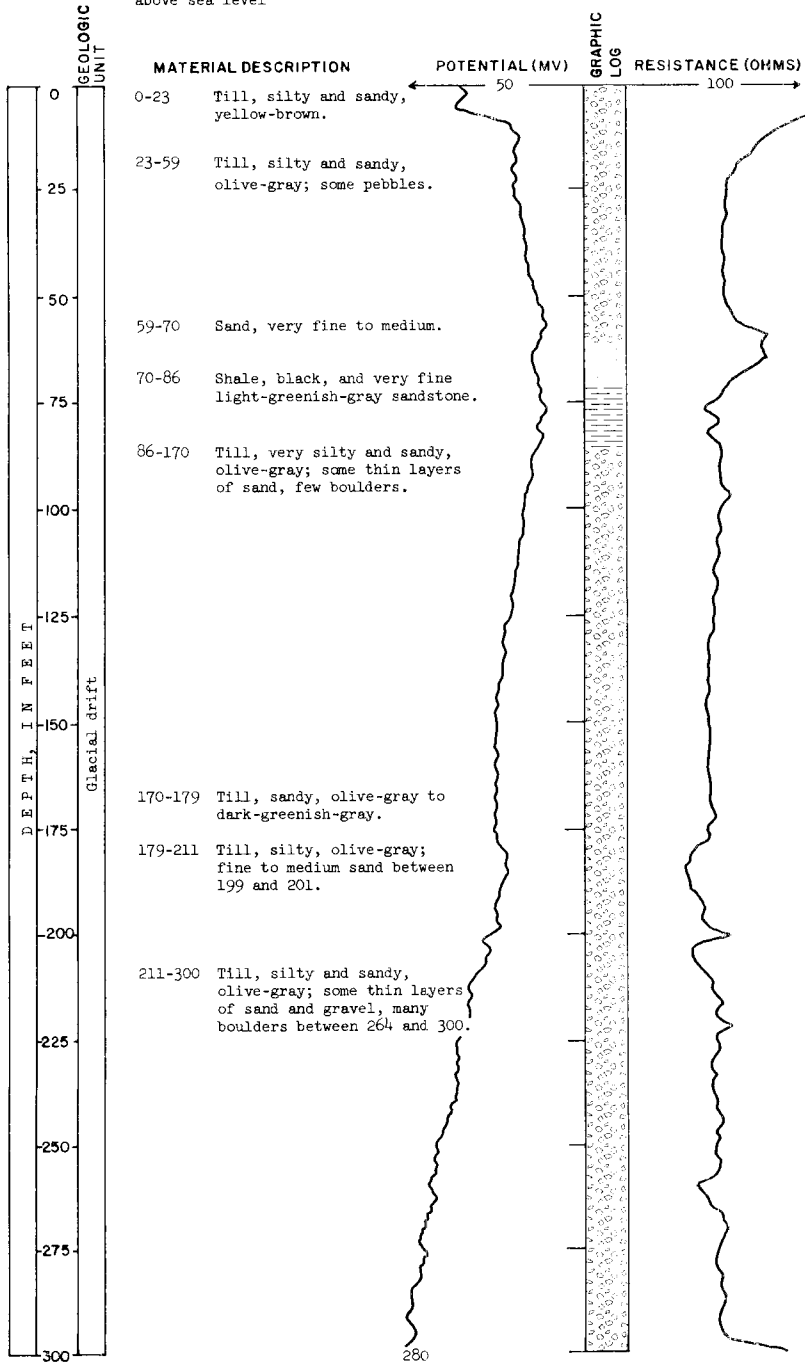


LOCATION: Henville County TEST HOLE 3338 DATE DRILLED: June 16, 1966  
 162-07-2add  
 ELEVATION: 1,799 feet above sea level DEPTH: 140 feet



LOCATION: Renville County TEST HOLE 3340  
 162-87-22aaa  
 ELEVATION: 1,850 feet  
 above sea level

DATE DRILLED: June 17, 1966  
 DEPTH: 450 feet

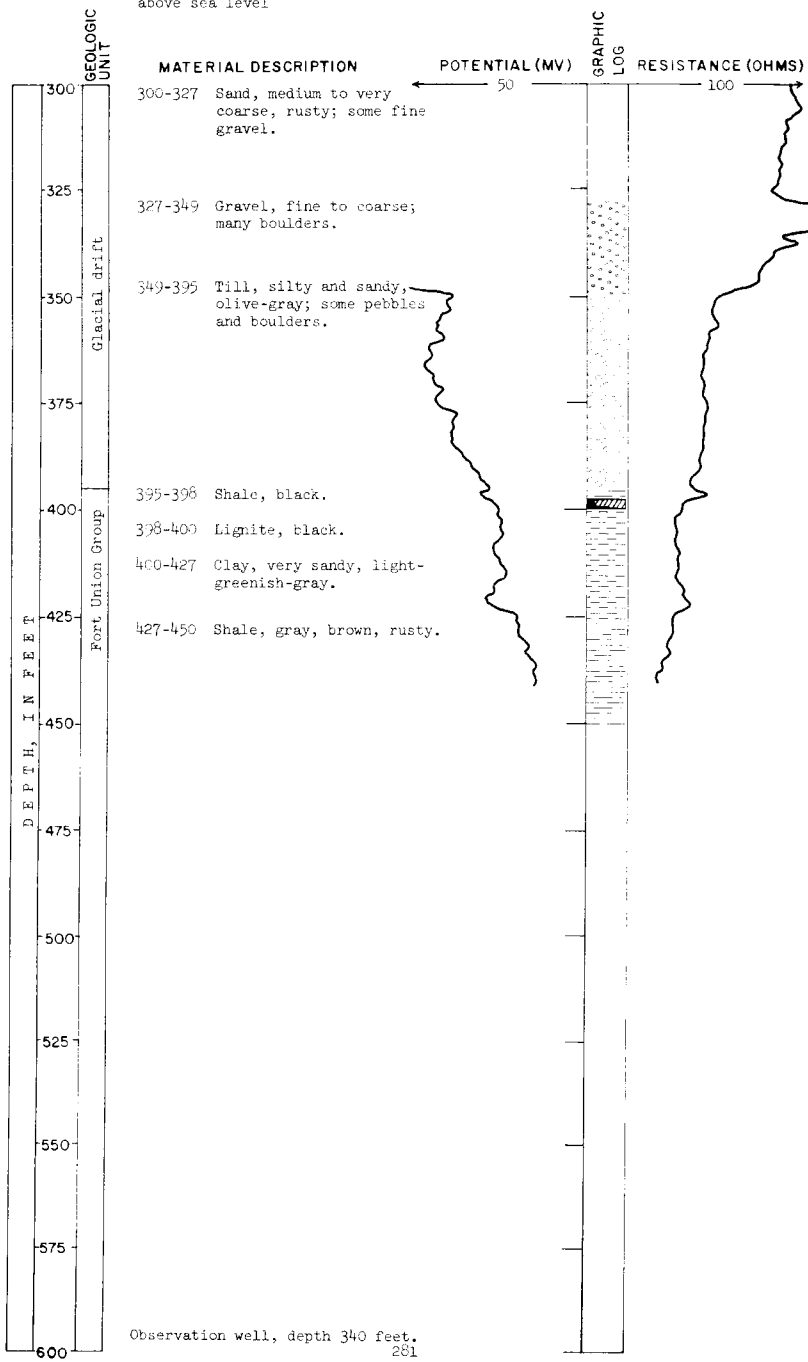


LOCATION: Renville County TEST HOLE 3340  
 162-87-22aaa (Continued)

ELEVATION: 1,850 feet  
 above sea level

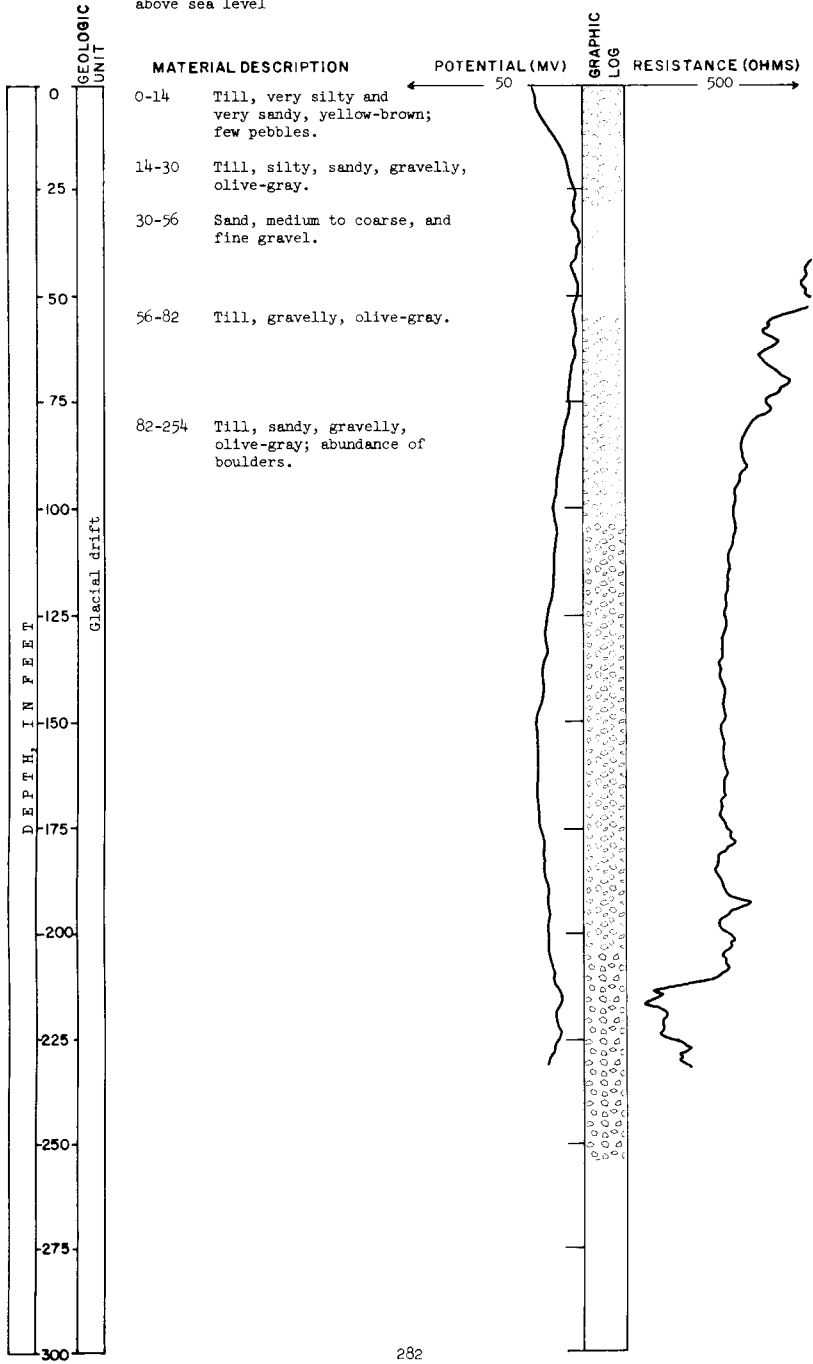
DATE DRILLED: June 17, 1966

DEPTH: 450 feet



LOCATION: Renville County TEST HOLE 3254  
 162-87-27baa1  
 ELEVATION: 1,844 feet  
 above sea level

DATE DRILLED: August 9, 1965  
 DEPTH: 254 feet



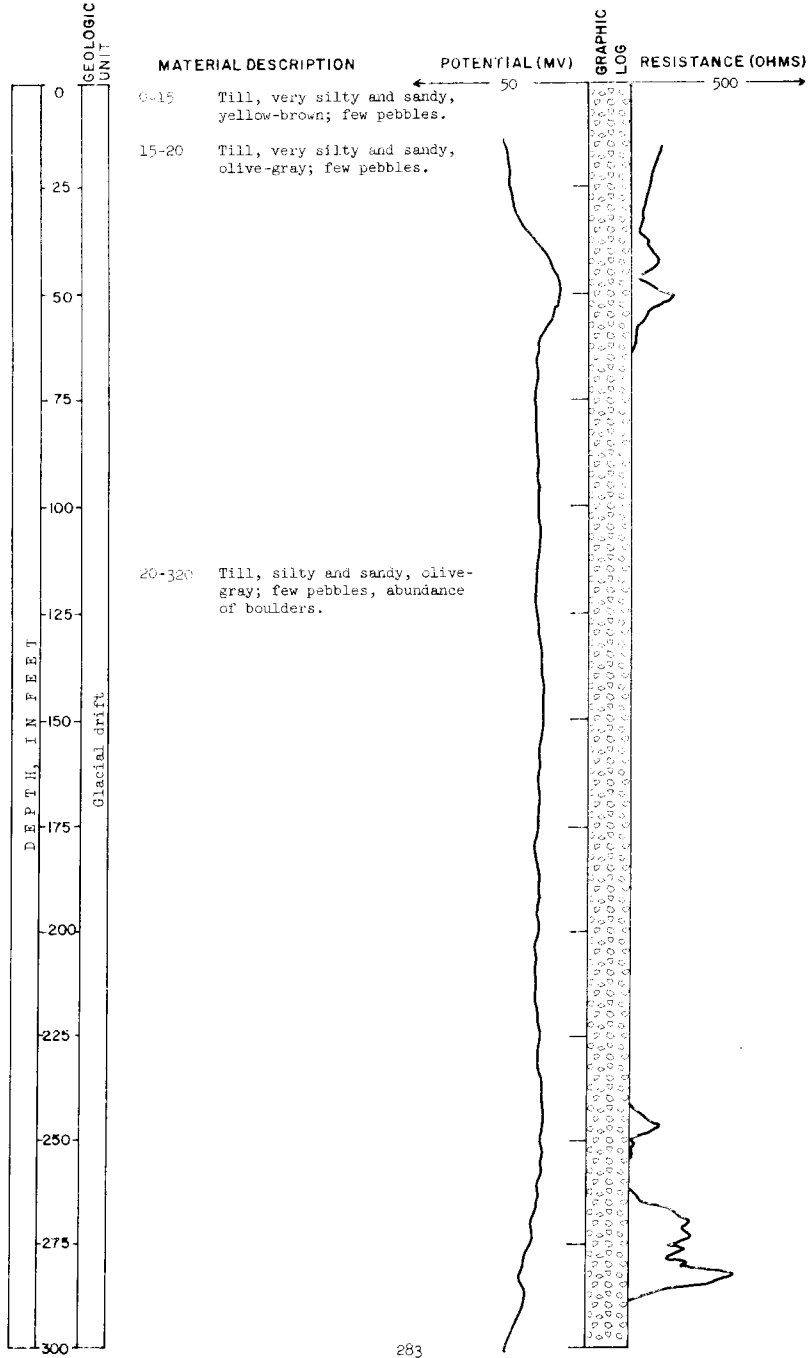
LOCATION: Renville County  
162-87-27baa2

ELEVATION: 1,344 feet  
above sea level

TEST HOLE 3254A

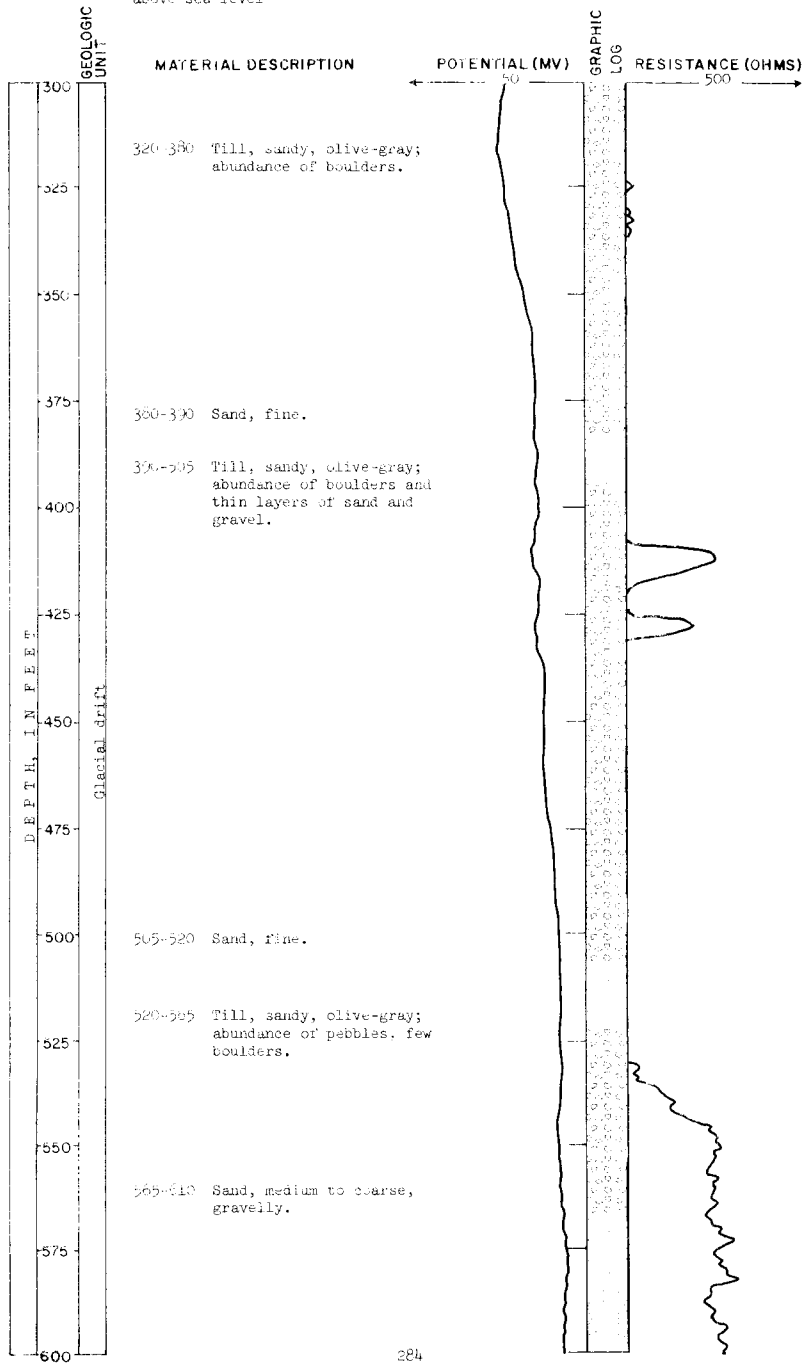
DATE DRILLED: August 9, 1965

DEPTH: 705 feet



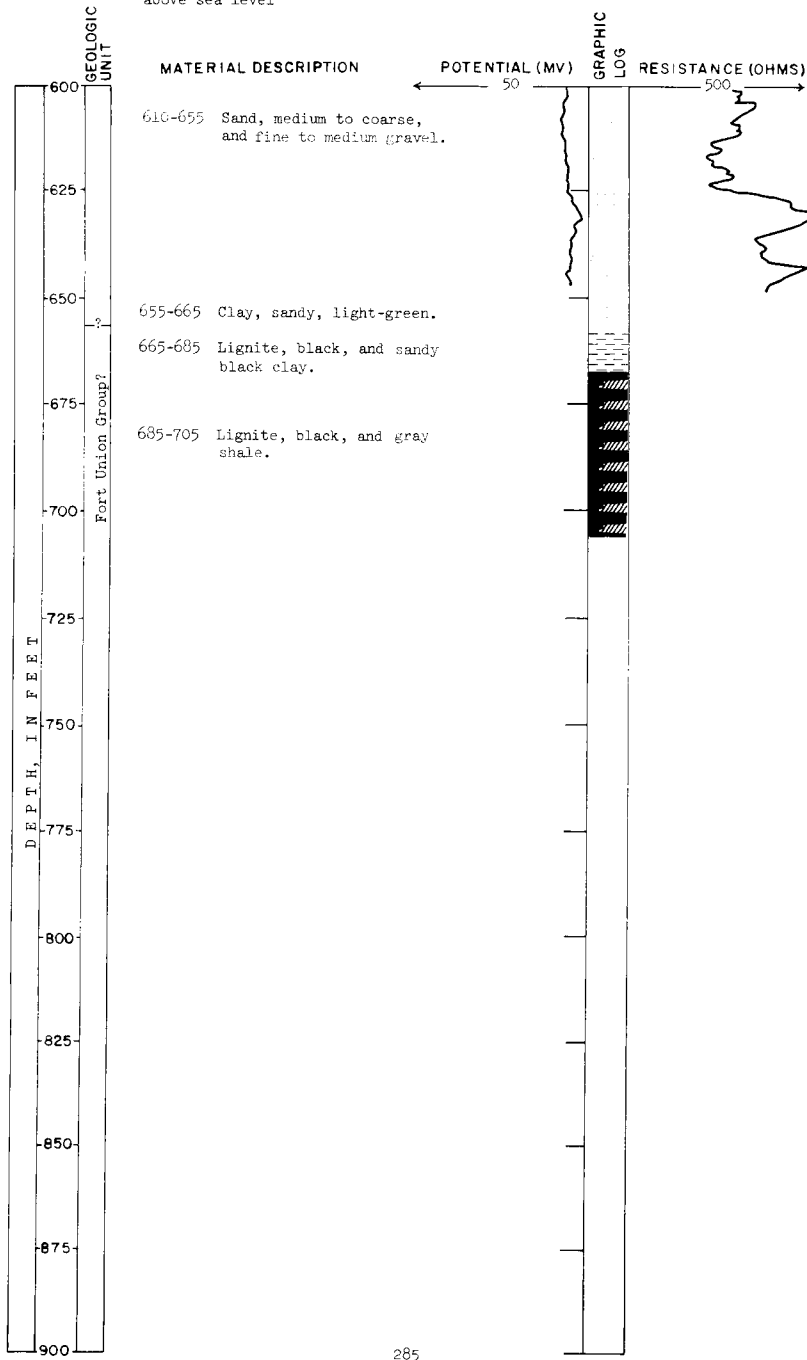
Renville County TEST HOLE 3254A  
 LOCATION: 162-37-2/baa2 (Continued)  
 ELEVATION: 1,844 feet above sea level

DATE DRILLED: August 9, 1965  
 DEPTH: 705 feet



Renville County TEST HOLE 3254A  
 LOCATION: 162-37-27baa2 (Continued)  
 ELEVATION: 1,844 feet above sea level

DATE DRILLED: August 9, 1965  
 DEPTH: 705 feet





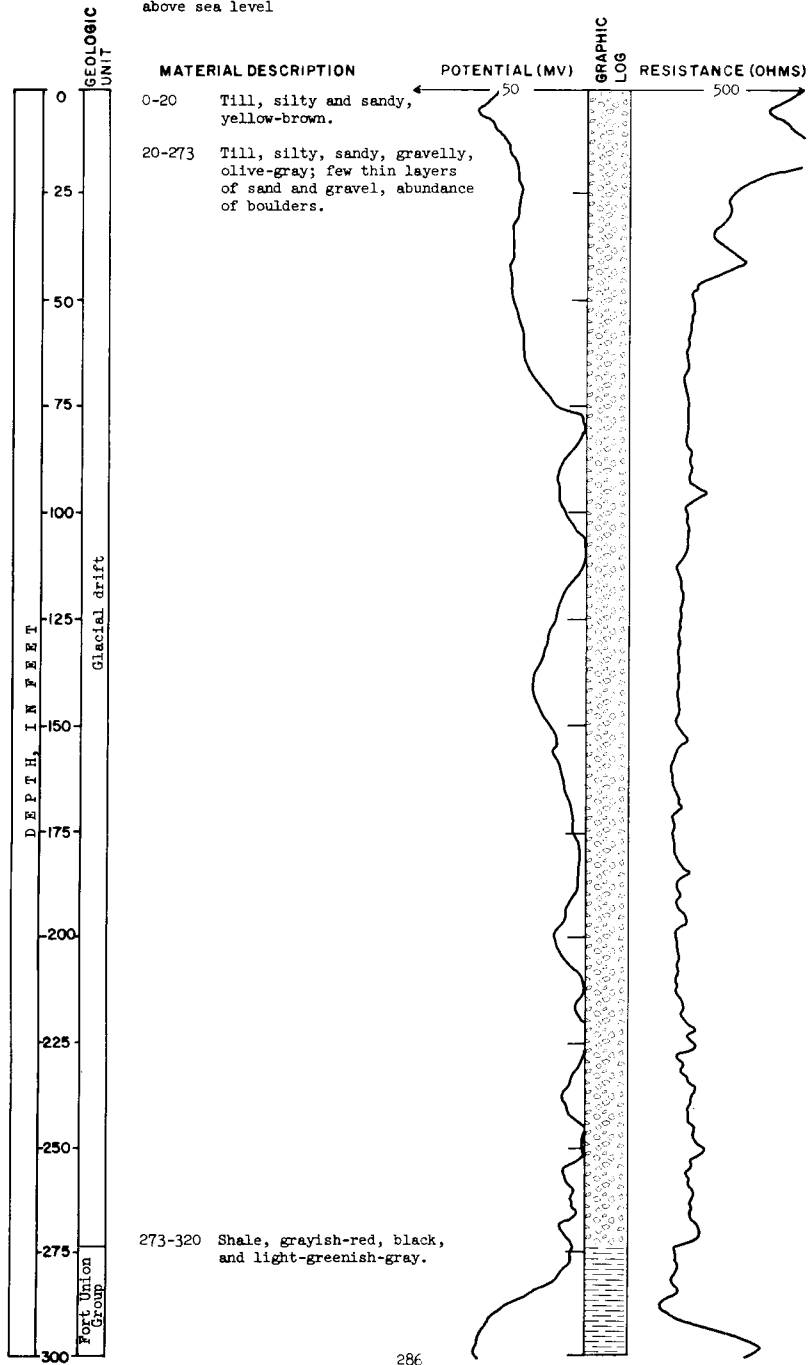
LOCATION: Renville County  
162-87-27ddd

ELEVATION: 1,844 feet  
above sea level

TEST HOLE 3255

DATE DRILLED: August 17, 1965

DEPTH: 320 feet



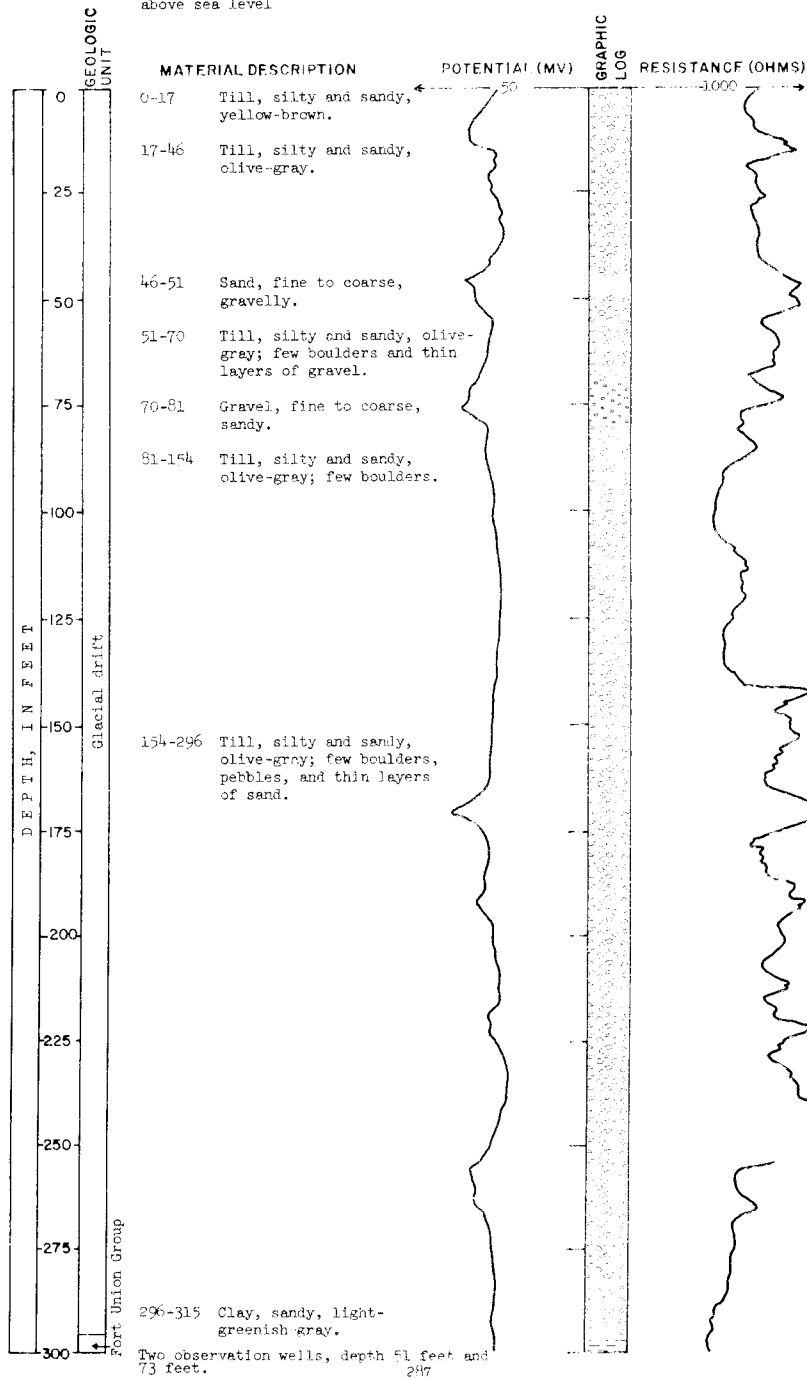
LOCATION: Renville County  
162-87-32ddd

TEST HOLE 2324

DATE DRILLED: November 6, 1964

ELEVATION: 1,870 feet  
above sea level

DEPTH: 315 feet



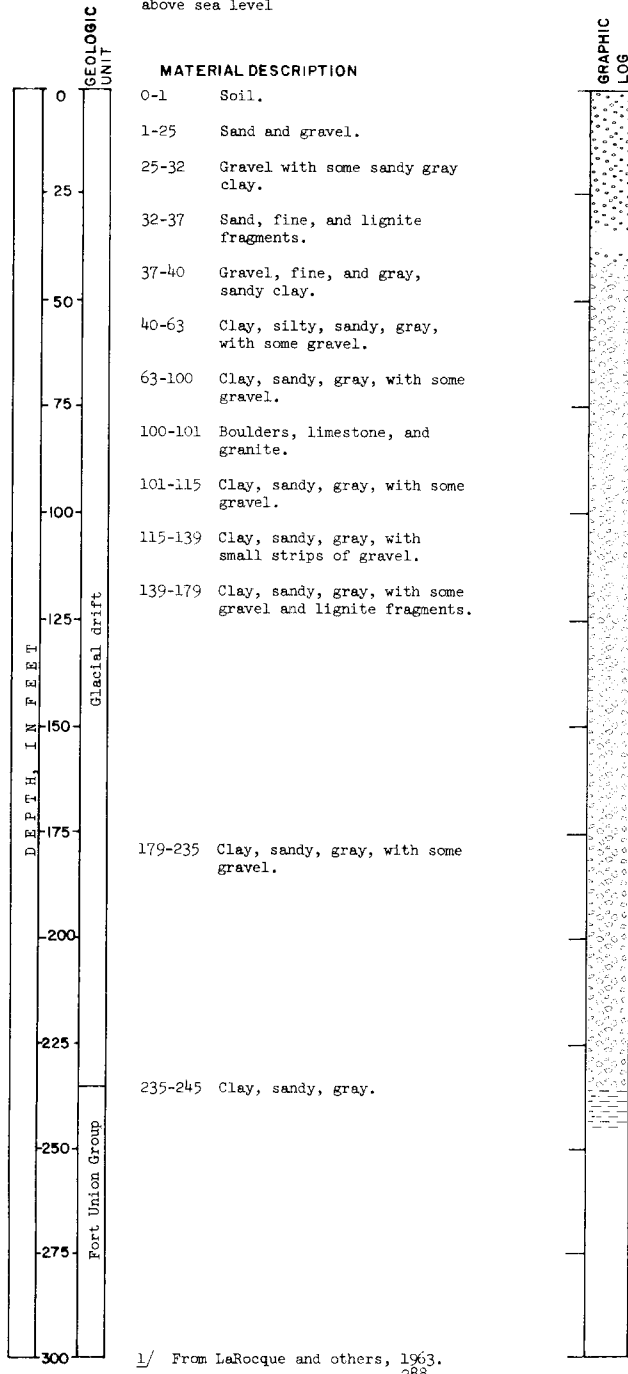
LOCATION: Renville County  
163-84-5baa

TEST HOLE  
U.S. Geol. Survey<sup>1/</sup>

ELEVATION: 1,617 feet  
above sea level

DATE DRILLED: 1947

DEPTH: 245 feet



<sup>1/</sup> From LaRocque and others, 1963, 288

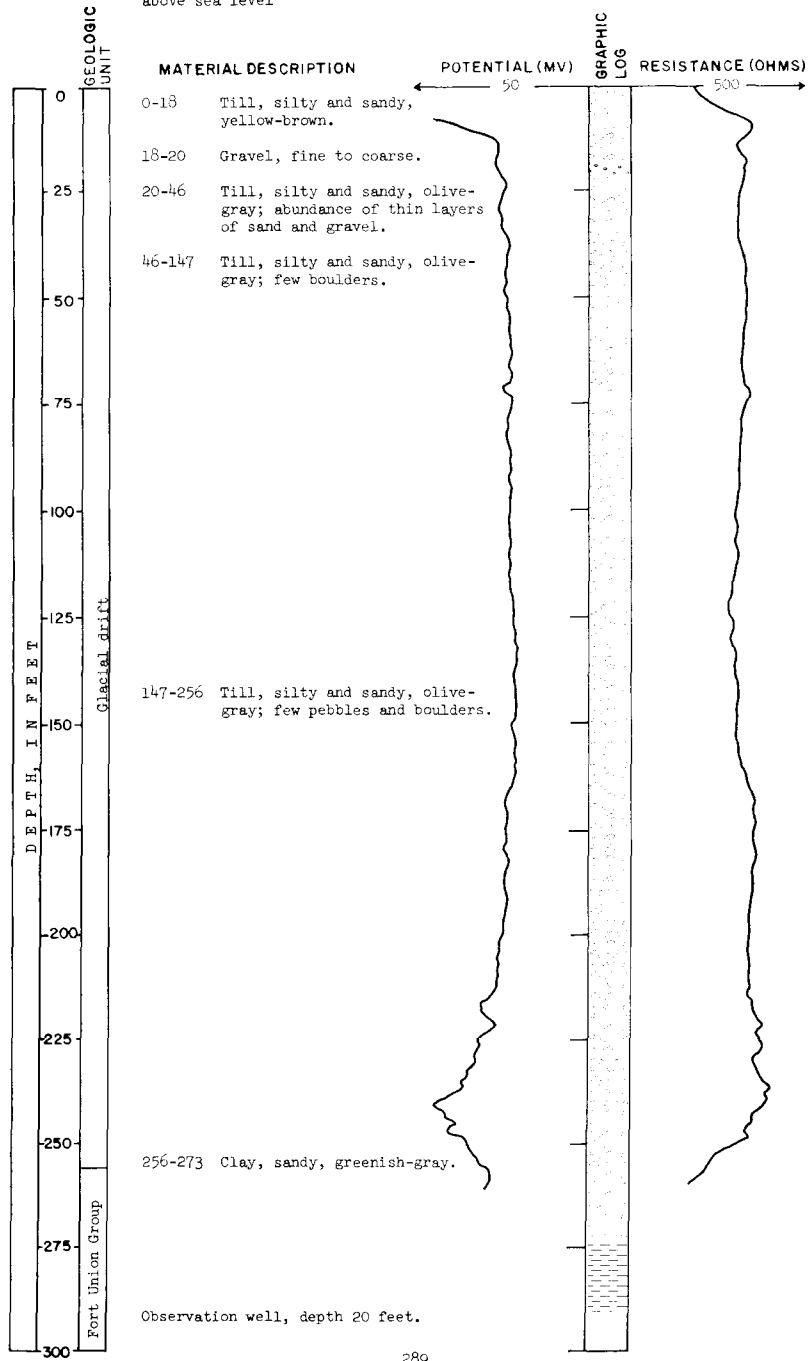
LOCATION: Renville County  
163-84-7ccc

ELEVATION: 1,635 feet  
above sea level

TEST HOLE 2321

DATE DRILLED: October 23, 1964

DEPTH: 273 feet

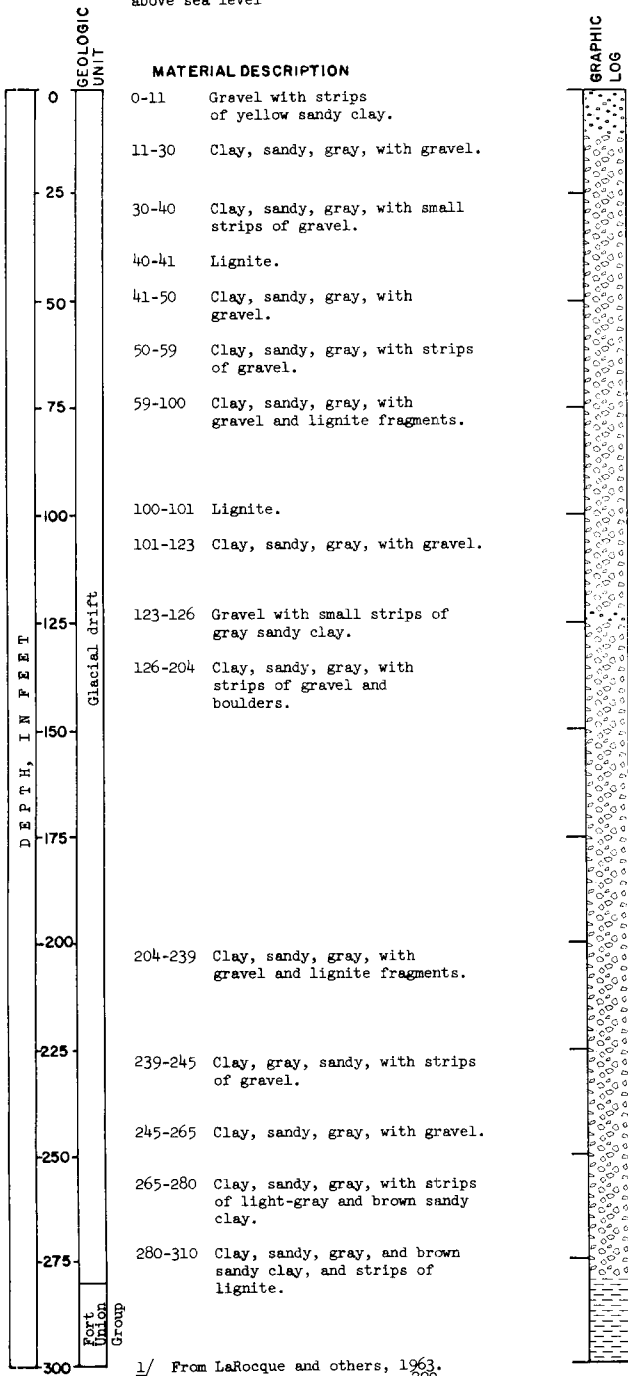


LOCATION: Renville County  
 163-85-26bbb U.S. Geol. Survey<sup>1/</sup>  
 ELEVATION: 1,669 feet  
 above sea level

TEST HOLE

DATE DRILLED: 1947

DEPTH: 310 feet



<sup>1/</sup> From LaRocque and others, 1963.

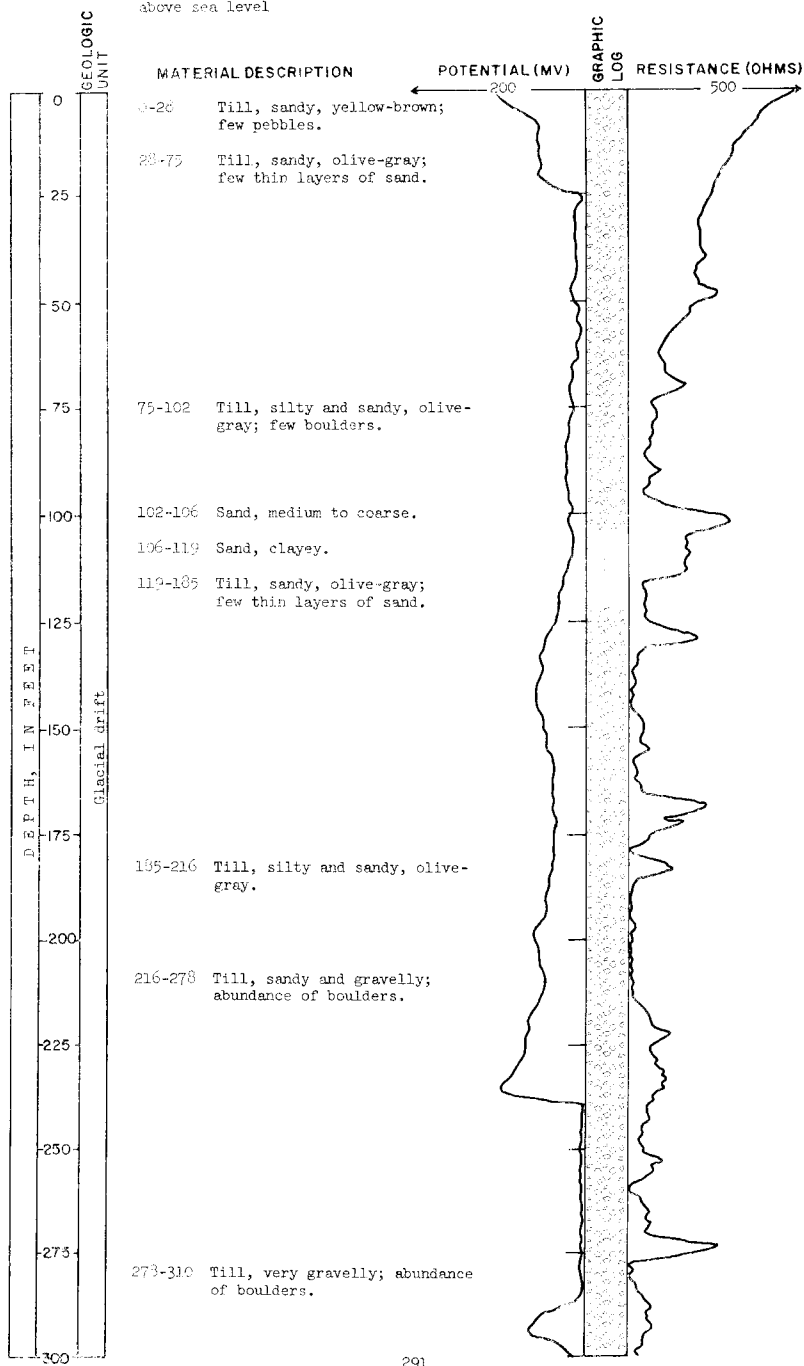
LOCATION: Renville County  
143-86-6aaa

ELEVATION: 1,771 feet  
above sea level

TEST HOLE 3253

DATE DRILLED: August 6, 1965

DEPTH: 340 feet

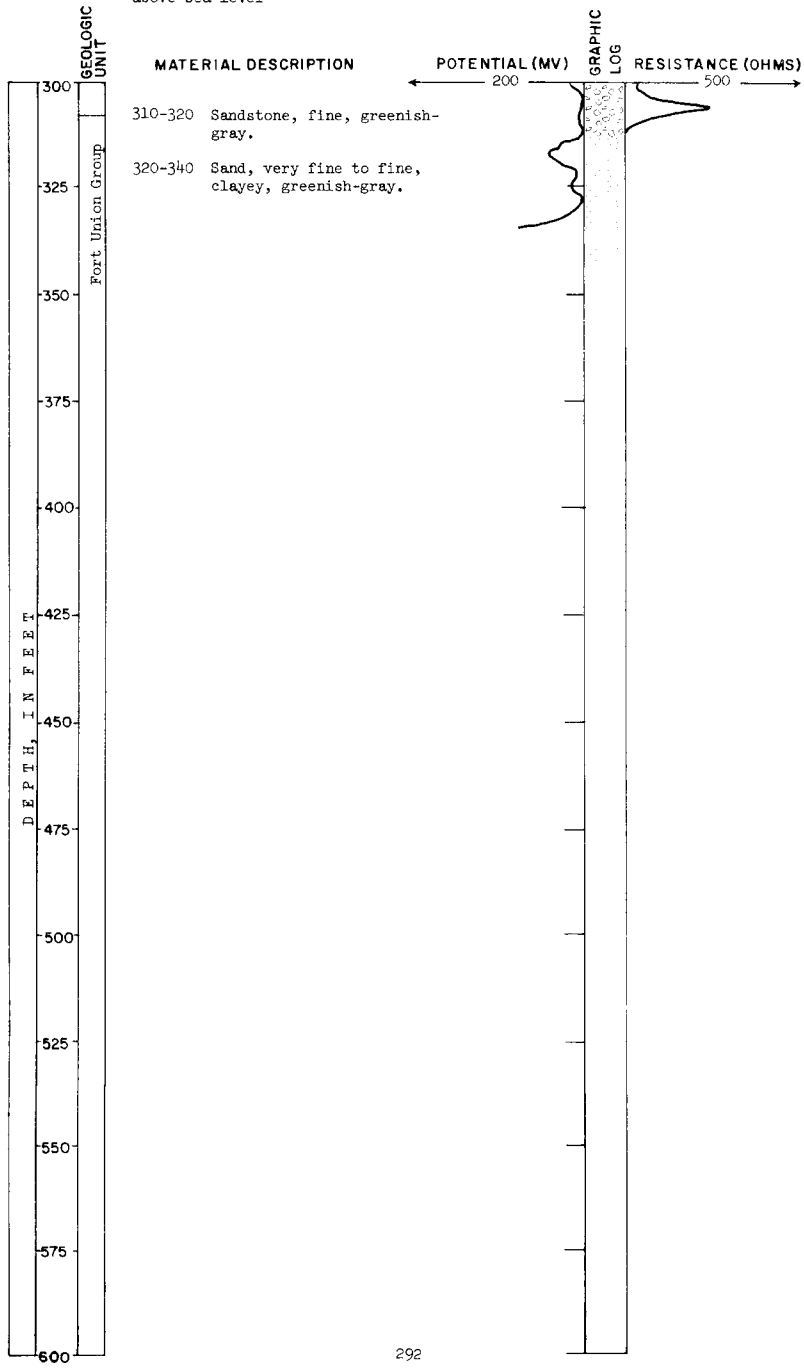


Renville County TEST HOLE 3253  
 LOCATION: 163-86-6aaa (Continued)

DATE DRILLED: August 6, 1965

ELEVATION: 1,771 feet  
 above sea level

DEPTH: 340 feet



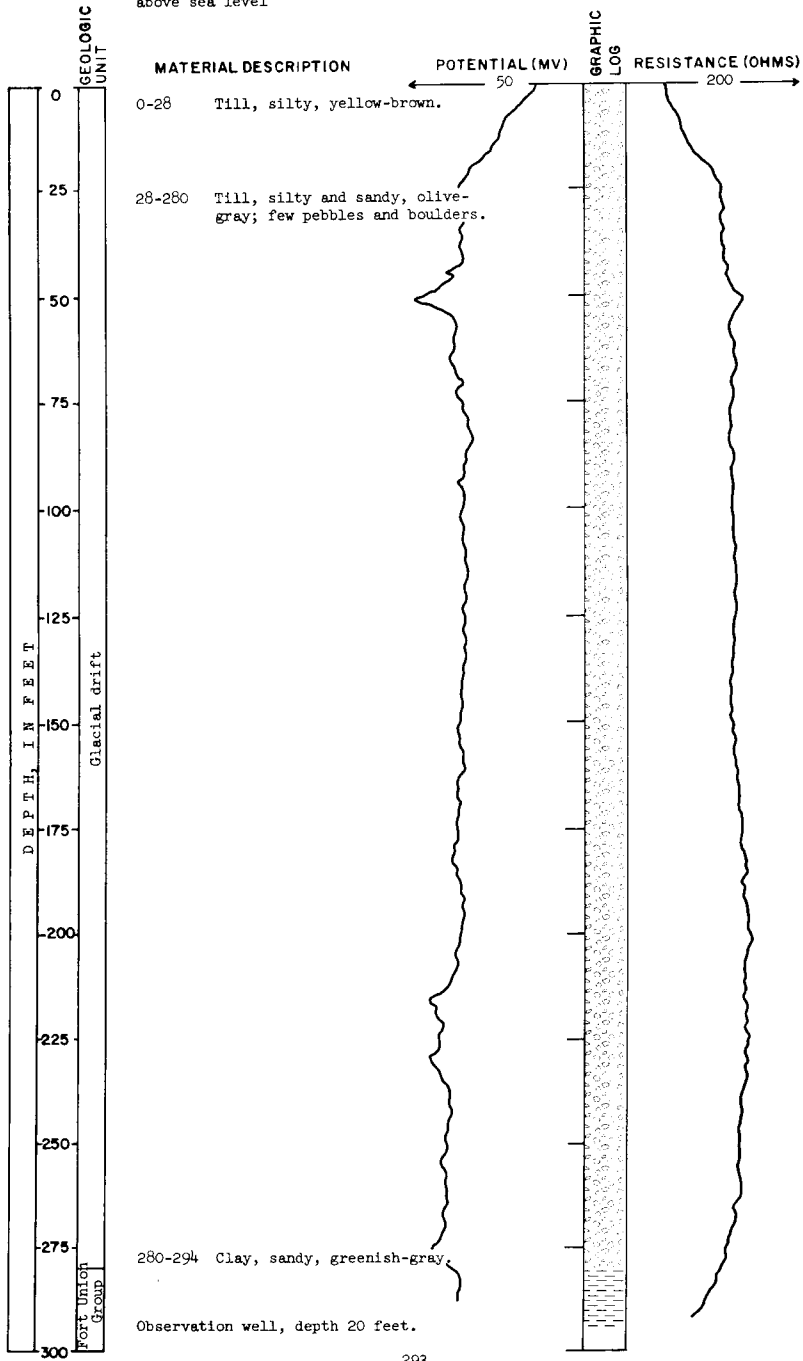
LOCATION: Renville County  
163-86-23aab

ELEVATION: 1,747 feet  
above sea level

TEST HOLE 2322

DATE DRILLED: November 4, 1964

DEPTH: 294 feet





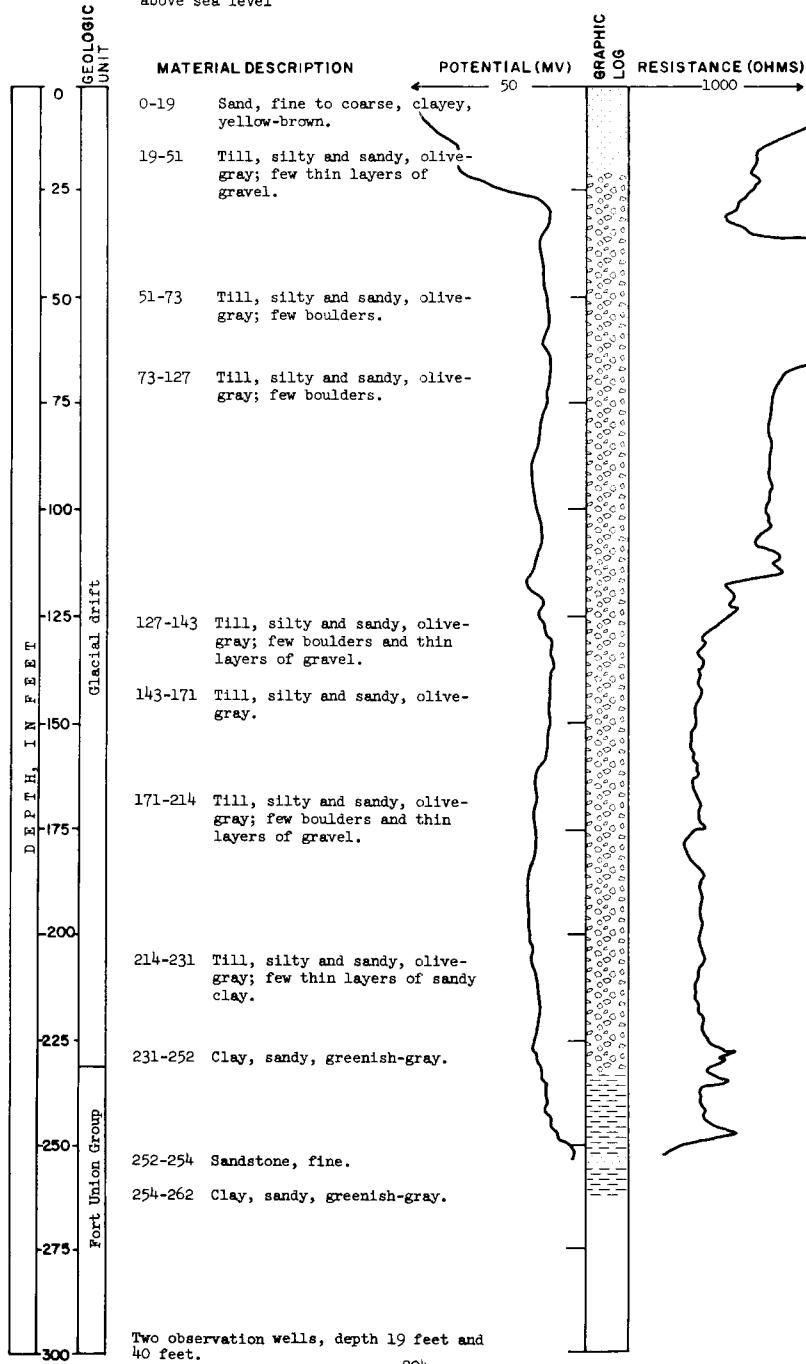
LOCATION: Renville County  
163-87-7aaa

TEST HOLE 2323

DATE DRILLED: November 5, 1964

ELEVATION: 1,823 feet  
above sea level

DEPTH: 262 feet

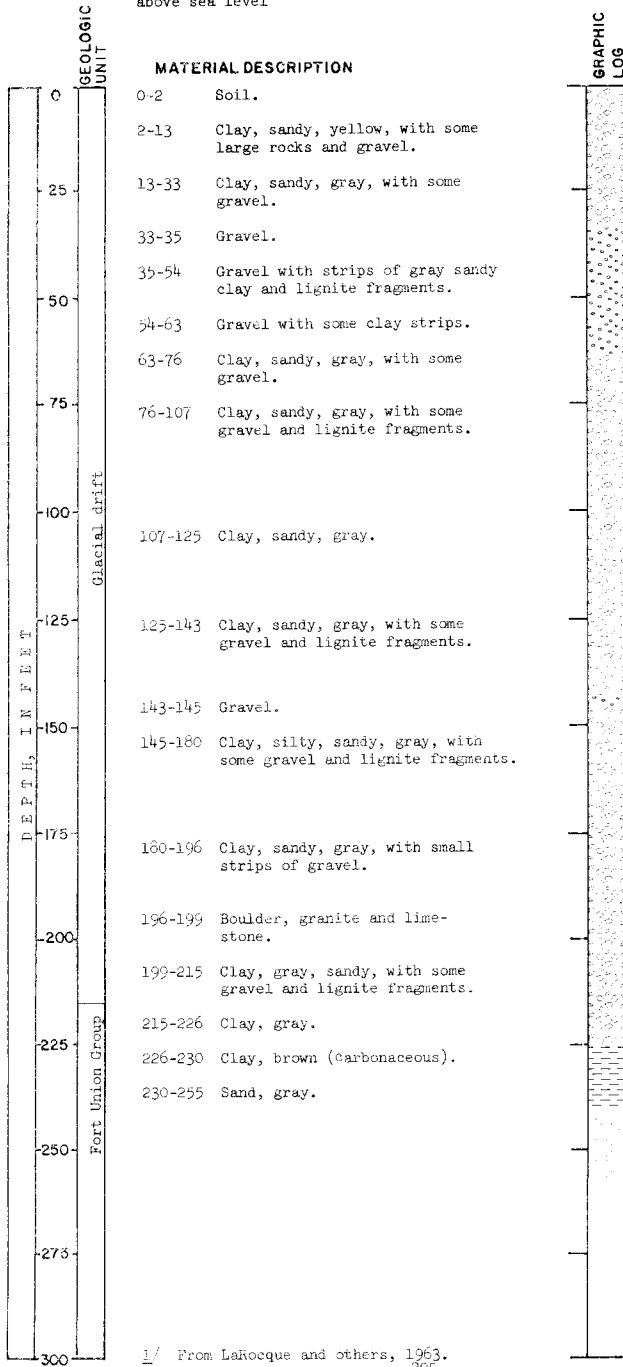


LOCATION: Renville County  
 163-87-31ddd U.S. Geol. Survey<sup>1/</sup>  
 ELEVATION: 1,855 feet  
 above sea level

TEST HOLE

DATE DRILLED: 1947

DEPTH: 255 feet



<sup>1/</sup> From LaRoque and others, 1963, p. 295

TABLE 5.--Chemical analyses of selected water samples, Renville County

Analytical results are in parts per million, except where indicated.

Use of Water

H, domestic; I, irrigation; K, domestic and stock; N, industrial; P, public supply; S, stock watering; U, unused.













Table with multiple columns containing alphanumeric codes (e.g., 156N08W31AAB), numerical values, and various symbols like asterisks and percentages. Rows are separated by dashed lines.

or