N Road shoulder 0.45 mi East of Section Corner

11670 • 41 test holes

U.S. GEOLOGICAL SURVEY
AND
STATE GEOLOGICAL SURVEY OF KANSAS

County Brown
Field No. 4-15-35-CD
Report No.
Total Depth 120 ft.

DRILLER'S LOG

SE SE SW

SE ¼ SW ¼ sec. 35 T 4 N/S R 15 E/W

Local description North road shoulder .45 mile east of SW corner sect. 35

115

Altitude 1160.6 feet; Elevation ____ feet above/below

Topographic situation: (Upland) side slope, terrace, flood plain, ravine,

Geologist-Party chief K.L.Walters Driller W.T.Connor Asst. driller

Date started Nov. 30 '48 Date completed Nov. 30 Cores taken (Intervals)

WATER SAMPLES

Interval
Method
Yield
Appearance
Temp. °F.

WATER LEVELS

Tape held 22.00
Tape wet 3.34
Depth to water 18.66 ft.
Date Dec. 2
Time AM

	DESCRIPTION OF MATERIAL	THICKNESS (feet)	DEPTH (feet)	DRILLING CHARACTER AND REMARKS
1.	Clay and silt, dark gray, compact. NON-C.	4	4	Drilled medium hard.
2.	Clay, tan, loose; some sand. NON-CALC	2	6	Drilled medium easy.
3.	Clay, pinkish gray, compact. SLIGHT-CALC	5	11	Drilled medium hard.
4.	Clay, tan and light gray. SANDY	9	20	" " "
5.	CLAY, TAN, SANDY, CALC. Sand, medium to coarse, and rotten limestone gravel.	5	25	Drilled easy.
6.	Clay, tan and gray. CALC, SANDY	9	34	Drilled medium hard.
7.	CLAY, SANDY, CALC, TAN Sandstone, brown, very poorly cemented, thin-bedded; some limestone.	6	40	" " "
8.	Same as above. "	10	50	" " "
9.	Clay, tan, ← CALC. some scattered igneous gravel.	10	60	" " "
10.	Same as above.	13½	73½	" " "
11.	Sand, medium to coarse, quartz; LS, igneous gravel; thin blue clay zone at top.	6½	80	" " "
12.	Same as above.	10	90	" " "
13.	Same as above. OK.	5	95	" " "
14.	Clay, blue-gray, sandy. CALC,	11	106	" " "
15.	Sand, quartz, medium to coarse. GRAVEL	9	115	Drilled medium easy.
16.	Shale, light gray; some thin, soft, limestone zones. OK.	5	120	Drilled Medium hard.

62½

73½

21½

73½ / 62½

1160
115
1045

Bob Vincent

Lana Combes, USGS

Nathan Myers

4-15-13bbb.———Sample log of test hole in NW cor. sec. 13, T 4 S, R 15 E, in triangle on road to east; augered August 26, 1960. Altitude of land surface, 1,130.0 feet; depth to water, 28.4 feet.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
Kansan Stage		
Glacial drift		
Silt, gray and brown	5	5
Silt, clayey, brown	2	7
Silt, reddish-brown	2	9
Clay, gray and brown	7	16
Silt, clayey, very sandy, reddish-brown	3	19
Sand, fine to coarse, silty, reddish-brown; some gravel	3	22
Clay, tan	3	25
Clay, tan, brown, and fine to coarse gravel	6	31
Clay, brown	14	45
Clay, gray and brown; contains some gravel	7	52
PERMIAN SYSTEM		
LOWER PERMIAN SERIES		
Gearyan Stage		
Admire Group		
Shale, dark-gray	1	53

4-15-20dad.———Sample log of test hole in SE NE SE sec. 20, T 4 S, R 15 E, on west road shoulder 600 feet south of half-mile line; augered August 16, 1960. Altitude of land surface, 1,070.0 feet; depth to water, 8.5 feet.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
Wisconsinan Stage		
Terrace deposits		
Silt, black to dark-gray	7	7
Silt, grayish-brown	2	9
Silt, brown to tannish-brown	14	23
Silt, dark-gray	12	35
Silt, clayey, black	10	45
Clay, black; contains very coarse gravel and cobbles	2	47
PERMIAN SYSTEM		
LOWER PERMIAN SERIES		
Gearyan Stage		
Council Grove Group		
Shale, dark-gray	0.5	47.5

4-15-33ccc.———Sample log of test hole in SW cor. sec. 33, T 4 S, R 15 E, on east road shoulder at north end of field; augered August 16, 1960. Altitude of land surface, 1,109.0 feet; depth to water, 45.4 feet.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
Wisconsinan Stage		
Terrace deposits		
Silt, grayish-brown	6	6
Silt, clayey, gray	6	12
Silt, tan; contains some gravel	6	18
Silt, tan, and light-gray clay; contains some gravel	5	23
Silt, clayey, grayish-brown	6	29
Silt, clayey, gray; contains some gravel	6	35
Clay, gray to dark-gray; contains some gravel	11	46
PERMIAN SYSTEM		
LOWER PERMIAN SERIES		
Gearyan Stage		
Council Grove Group		
Shale, gray	2	48

4-15-35cdd.———Sample log of test hole in SE SE SW sec. 35, T 4 S, R 15 E, on north road shoulder 0.45 mile east of section corner; drilled November 30, 1948. Altitude of land surface, 1,160.6 feet; depth to water, 18.66 feet.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
Kansan Stage		
Glacial drift		
Clay and silt, compact, dark-gray	4	4
Clay, tan, and fine to medium sand	2	6
Clay, pinkish-gray	5	11
Clay, tan and light-gray	9	20
Clay, tan, and fine sand; some limestone gravel	5	25
Clay, tan and gray, some fine sand	9	34
Clay, tan, and fine to coarse sand	16	50
Clay, tan; contains some fine to coarse gravel	23.5	73.5
Sand and gravel, fine to coarse; clayey at top, blue	6.5	80
Sand and gravel, fine to coarse	15	95
Clay, sandy, bluish-gray	11	106
Sand, medium to coarse	9	115
PERMIAN SYSTEM		
LOWER PERMIAN SERIES		
Gearyan Stage		
Admire Group		
Shale, light-gray, and thin limestone zones	5	120

4-16-26daa.———Sample log of test hole in NE NE SE sec. 26, T 4 S, R 16 E, 20 feet south and 6 feet west of center of road at half-mile line; augered August 15, 1960. Altitude of land surface, 1,106.5 feet; depth to water, 18.8 feet.

	Thickness, feet	Depth, feet
QUATERNARY SYSTEM		
PLEISTOCENE SERIES		
Wisconsinan Stage		
Eolian silt deposits		
Silt, black grading to tannish-brown	5	5
Kansan Stage		
Glacial drift		
Silt, brown; contains some fine sand	7	12
Sand, fine to coarse; contains much silt	9	21
Sand, fine to coarse; contains some tan silt	5	26
Silt, gray, very sandy	7	33