

22-16-11W

CHARLES I. SLAGLE
Geologist

July 10, 1964

G E O L O G I C A L R E P O R T

Kenneth Rupp #1 Esfeld
NW NE NW Section 22-16S-11W
Barton County, Kansas

CONTRACTOR:	Terrel Drilling Co.	ELEVATION:	1917 KB
CASING:	8-5/8 337 w/200 sax	TOTAL DEPTH:	3601
COMMENCED:	June 22, 1964	ELECTRICAL SURVEY:	
COMPLETED:	July 2, 1964		Gamma Ray-Neutron-Guard
INITIAL			Caliper-sonic
PRODUCTION:	D & A		

GENERAL REMARKS: This well was under geological supervision from 2750 feet to total depth. Drilling time was recorded by geologist from surface to total depth. Samples were caught and saved from 2000 feet to total depth.

G E O L O G I C A L F O R M A T I O N S A N D D E P T H S:

<u>FORMATION</u>	<u>SAMPLE TOPS</u>	<u>ELECTRIC LOG TOPS</u>
Clinton Anhydrite	743 (+1174)	748 (+1169)
Topeka	2658 (-741)	2662 (-743)
Heebner	2953 (-1036)	2957 (-1040)
Toronto	2970 (-1053)	2975 (-1053)
Brown Lime	3049 3069 (-1132)	3053 (-1136)
Lansing-Kansas City	3070 (-1153)	3074 (-1157)
Conglomerate	3341 (-1424)	3345 (-1428)
Arbuckle	3382 (-1465)	3389 (-1472)
Reagan	3581 (-1664)	3586 (-1669)
TOTAL DEPTH	3601 (-1684)	3604 (-1687)

Kenneth Rupp #1 Esfeld
Barton County, Kansas

July 10, 1964
Page Two.

ZONES OF INTEREST: Samples were examined from 2000 feet to total depth. There was abundant porosity above the Topeka but these shallow zones will not be described in this report--since no shows were noted.

TOPEKA

- 2734-2746 - Limestone, light buff, very fine crystalline, slightly dolomitic, slightly cherty, and vuggy. Fair porosity. NO SHOW.
- 2899-2902 - Limestone, Cream to light buff, slightly chalky, fine crystalline, oolitic and oolitic. Poor porosity. Scattered spotted oil stain.

TORONTO

- 2970-2973 - Limestone, white, fine crystalline to chalky, Poor porosity. Trace of spotted oil stain.

LANSING-

KANSAS CITY

- 3160-3178 - Limestone, white to light buff, slightly chalky to fine crystalline, oolitic. Good porosity. NO SHOW.
- 3244-3250 - Limestone, Cream to light buff, slightly chalky to fine crystalline, oolitic and oolitic. Poor porosity. Scattered show of free oil.
- 3296-3303 - Limestone, white to light buff, gray, Chalky to fine crystalline, slight fossiliferous. Poor porosity. Trace spotted oil stain.

ARBUCKLE

- 3382-3400 - Dolomite, light gray, fine granular becoming fine crystalline toward base. Poor porosity. Scattered show of free oil.
- 3400-3415 - Dolomite, white to light gray, medium to coarse crystalline with an occasional embedded large sand grain. Fair porosity. Scattered show of free oil.

Kenneth Rupp #1 Esfeld
Barton County, Kansas

July 10, 1964
Page Three.

REAGAN

3481-3501 - Sandstone, subangular, fine to very coarse quartz sand, with some dolomite as cementing material.
FAIR POROSITY - NO SHOW.

DRILL STEM TESTS:DST #1

3240-3261

Open 40 minutes. Weak blow of air for three minutes and died. Recovered 10 feet of mud.

IFP - 23# FFP - 26#

IBHSIP - 1087#/30 minutes FBHSIP - 944#/30 Min.

IHM - 1818# FHM - 1603#

BOTTOM HOLE TEMPERATURE - 108°

DST #2

3386-3391

Open 45 minutes, Weak blow of air for 13 minutes and died. Recovered 5 feet of mud.

IFP - 15# FFP - 15#

IBHSIP - 54#/30 minutes FBHSIP - 54#/30 Min.

IHM - 1812# FHM - 1796#

DST #3

3388-3400

Open 35 minutes. Weak blow of air for 8 minutes and died. Recovered 35 feet of mud.

IFP - 47# FFP - 54#

IBHSIP - 1146#/30 minutes FBHSIP - 1050#/30 Min.

IHM - 1812# FHM - 1796#

BOTTOM HOLE TEMPERATURE - 108°

DST #4

3388-3415

Open 65 minutes, Weak blow of air increasing to good blow in 30 minutes and remained steady. Recovered 280 feet muddy sulphur water and 240 feet clean sulphur water.

IFP - 39# FFP - 259#

IBHSIP - 1097#/30 minutes FBHSIP - 1031#/30 Min.

IHM - 1820# FHM - 1796#

BOTTOM HOLE TEMPERATURE - 110°

Kenneth Rupp #1 Esfeld
Barton County, Kansas

July 10, 1964
Page Four.

C O M M E N T

Kenneth Rupp #1 ESFELD was drilled in an attempt to extend ARBUCKLE production in Kraft-Prussa field. All formations were encountered structurally low to nearby producing oil wells. The evaluation of drill stem test data and electric logs indicate no commercial oil zones to be present in this test. Therefore, permission was granted to plug and abandon this test.

Respectfully submitted,

Charles I. Slagle

CHARLES I. SLAGLE

CIS/cn
Attachment

Kenneth Rupp #1 Esfeld
 NW NE NW Section 22-16E-11W
 Barton County, Kansas

DEPTH	DRILLING TIME	REMARKS
<u>1 - foot Drilling Time from 200 feet to Total Depth</u>		
2000-20	5-4-4-4-4-5-5-1-2-1--1-2-2-2-3-6-6-3-4-4	Trip # 2075
40	2-2-2-4-2-3-4-4-5-5--5-4-3-3-3-3-2-3-3	
60	3-2-3-2-3-2-2-2-2-3--2-1-1-1-2-1-2-3-5-5	
80	5-6-5-5-5-5-5-6-7--6-5-5-7-6-2-1-1-1-1	
2100	1-2-2-2-2-2-2-3-2-1--2-1-2-2-2-1-2-1-2-1	
2100-20	1-2-2-1-1-2-1-2-1-1--1-1-1-1-1-2-1-1-1-1	
40	1-1-2-1-1-1-1-2-1-1--1-1-2-1-1-2-1-2-1-2	
60	2-1-2-1-1-1-1-1-1-2--1-1-1-1-2-1-1-1-1-2	
80	1-1-1-2-1-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ -1--2-2-1-1-1-1-2-1-2-1	
2200	2-1-2-1-1-1-2-1-1-1--2-1-1-1-2-1-2-1-1-1	
2200-20	2-2-2-2-1-2-1-1-2-2--1-1-1-1-1-2-1-1-1-1	
40	1-1-1-1-1-1-1-1-1-1--1-2-2-1-1-2-1-1-1-2	
60	1-1-1-1-1-1-2-1-1-1--1-1- $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -1-1	
80	1-1-1-2-1-1-2-3-2-2--1-1-1-1-1-1-1-1-1-1	
2300	1-1-1-1-1-2-2-1-1-1--2-1-1-1-2-1-1-2-3-2	
2300-20	1-1-2-1-1-2-2-1-1-1--1-1-1-1-1-1-1-1-1-1	
40	1-1-2-2-2-2-1-2-1-1--1-2-1-1-1-2-3-2-2-2	
60	1-2-2-1-1-1-1-2-2-2--1-1-1-1-1-1-1-1-1-1	
80	1-2-2-1-1-1-1-1-1-1--1-1-2-1-1-1-1-1-1-1	
2400	1-1-1-1-1-1-1-1-1-1--1-1-1-1-1-1-1-1-1-1	
2400-20	1-1-1-1-1-1-1-1-1- $\frac{1}{2}$ -- $\frac{1}{2}$ -2-2-2-3-3-2-4-1-2	
40	2-1-2-2-2-2-2-1-1-1--2-2-2-2-1-1- $\frac{1}{2}$ - $\frac{1}{2}$ -1-1	
60	1-1-1-1-1-1-1-1-1-1--1-1-1-1-1-1-1-1-1-1	
80	1-1-1-1-1-1-1-1-1-1--1-1-1-1-1-1-2-1-1-1	
2500	2-3-1-2-1-2-2-2-3-2--3-2-2-2-2-2-1-2-2-1	
2500-20	1-1-1-1-2-4-3-3-3-2--1-2-1-1-1-1-1-2-2-2	
40	2-2-1-2-1-2-1-1-1-2--2-3-2-4-3-2-2-2-1-2	
60	1-2-2-1-2-1-2-1-2-1--1-2-1-2-3-2-2-4-2-1	
80	2-1-2-1-2-2-1-1-2-2--1-2-1-2-1-2-1-2-2-1	
2600	2-2-2-1-2-1-1-1-1-1--1-1-1-1-2-1-1-1-1-1	
2600-20	2-1-1-2-2-1-1-1-1-1--1-1-1-3-2-1-1-2-1-1	
40	1-1-1-3-3-3-3-2-2-2--2-4-2-1-1-2-4-2-2	
60	1-2-2-1-2-2-2-2-1-2--1-2-2-2-2-2-1-2-3-4	