

# PICKRELL DRILLING COMPANY

DRILLING CONTRACTORS • OIL PRODUCERS  
705 FOURTH NATIONAL BANK BLDG.  
WICHITA 2, KANSAS

May 19, 1969

## GEOLOGICAL REPORT

Einsel "B" No. 1  
SE NW Section 2-33S-17W  
Comanche County, Kansas

Elevation: 2008 KB

### SURFACE CASING:

13 3/8" set at 237' with 225 sacks.

### SAMPLES & DRILLING TIME

1' drilling time from 4000' to 5200', RTD.  
10' samples from 4000' to 5200', RTD.

All measurements were made from the kelly bushing and corrected to electric log depths. Samples were examined from 4000' to 5200', RTD, and the well was under geological supervision from 4900' to total depth.

### FORMATIONS

<u>Formation Tops</u>	<u>Sample</u>	<u>Log</u>	<u>Datum</u>
Heebner	4259'	4264'	-2256
Lansing	4452'	4450'	-2442
Marmaton	4948'	4947'	-2939
Cherokee Shale	5078'	5078'	-3070
Mississippian	5141'	5139'	-3131
Total Depth	5200'	5200'	-3192

### ZONES OF INTEREST

Following is a brief sample description of zones which exhibited porosity.

#### TORONTO:

4279 - 4286 Limestone, gray, fine to medium crystalline, some dense, shaley, no visible porosity and no show.

4294 - 4298 Limestone as above.

DOUGLAS

4314 - 4382 Sandstone, fine grained, micaceous and shaley, slightly glauconitic, friable, poor to fair porosity with no show of oil. Interbedded with red and gray shale.

LANSING-KANSAS CITY

4496 - 4530 Limestone, gray, fine crystalline with a trace of poor, pinpoint and small vugular porosity, no show of oil.

4541 - 4550 Limestone, gray, dense, shaley with a trace of poor, pinpoint porosity, no show.

4606 - 4610 Limestone, gray, fine to coarse crystalline, poor to fair pinpoint, vuggy and some intercrystalline porosity with a trace of spotted fluorescence and faint cut. Electric log calculated water.

4636 - 4660 Limestone, white to tan, fine crystalline to dense, trace of poor, pinpoint porosity, no show.

4676 - 4686 Limestone, tan to gray, oolitic and slightly fossiliferous with good oolitic and fossil cast porosity, trace of spotted fluorescence and faint cut, no free oil and no odor. Electric log calculates wet.

4723 - 4741 Limestone, white to gray, fine crystalline to slightly fossiliferous, trace of poor, pinpoint porosity, no show.

4796 - 4802 Limestone, gray to tan, oolitic, fair to good oolitic porosity, no show.

MISSISSIPPIAN

5144 - 5148 Limestone, white, fine to medium crystalline, very slightly fossiliferous and cherty, trace of poor, pinpoint and vuggy porosity with light spotted stain.

5152 - 5163 Dolomite, finely sucrosic and limey, poor to fair pinpoint porosity with light spotted stain and a trace of free oil and faint odor towards base.

DRILL STEM TEST NO. 1: 5143 - 5158'

Open 1½ hours, had gas to surface in 5 minutes, gauged 155 MCF's/10", 78 MCF's/30", 35 MCF's/60", TSTM/70", Recovered 307' of total fluid being 62' of clean oil + 105' muddy oil, + 125' of heavily oil cut mud, + 15' water. ISIP 1638#/30", FSIP 1083#/60", IFP 30#, FFP 77#.

Geological Report  
Einsel "B" No. 1  
Comanche County, Kansas

Page 3

DRILL STEM TEST NO. 2: 5158 - 5170'

Open 45 minutes, had weak blow for 10 minutes and died, flushed tool once, no help, Recovered 40' mud. ISIP 1609#/30", FSIP 1407#/30", FP 11-18#.

5178 - 5186 Dolomite, white finely sucrosic, trace of poor, pinpoint porosity, no show of oil, plus limestone, white to light green, medium crystalline, slightly fossiliferous and cherty, trace of poor vuggy porosity, no show of oil.

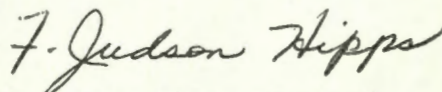
Gamma-Ray, Neutron, Guard, and Caliper logs were run at total depth by Electra.

CONCLUSIONS & RECOMMENDATIONS

The only noteworthy show encountered was in the Mississippian. The prospective pay zone was indicated to be very thin (4') and a pressure drop of 555# was recorded in Drill Stem Test No. 1. The second porosity in the Mississippian was almost completely lacking in permeability and the third porosity zone had no show and calculated water wet on the Electric Log. Considering these factors, it was decided this well had no chance for commercial production and was therefore plugged and abandoned.

Respectfully submitted,

PICKRELL DRILLING COMPANY



F. Judson Hipps, Geologist

FJH:ms

# PICKRELL DRILLING COMPANY

DRILLING CONTRACTORS • OIL PRODUCERS

705 FOURTH NATIONAL BANK BLDG.

WICHITA 2, KANSAS

May 19, 1969

## TIME LOG

Einsel "B" No. 1  
SE NW Section 2-33S-17W  
Comanche County, Kansas

### 1' Drilling Time

4000 - 4010	6-5-4-4-3	2-2-3-4-3
20	2-3-4-2-3	4-3-4-4-4
30	5-4-3-4-4	5-4-3-4-3
40	4-4-4-4-5	6-5-6-5-4
50	5-5-5-4-4	3-5-4-4-5
60	3-4-4-4-4	5-8-4-7-5
70	4-4-6-7-5	4-4-3-4-4
80	4-2-6-6-6	8-17-27-18-35
90	17-12-11-14-19	12-12-13-12-16
4100	8-17-7-6-13	15-14-11-11-15
4100 - 4110	20-28-9-18-20	20-6-2-2-8
20	8-10-14-17-9	7-7-8-7-8
30	10-10-10-11-5	3-3-3-7-6
40	11-8-11-7-7	8-11-10-10-10
50	10-14-9-6-6	8-11-8-11-14
60	11-15-17-13-16	17-14-14-12-9
70	15-16-12-18-18	16-10-11-9-10
80	13-14-14-14-12	13-13-12-14-16
90	15-18-14-12-14	11-12-8-8-11
4200	13-12-12-12-18	15-15-14-16-17
4200 - 4210	10-11-13-14-14	13-13-15-15-15
20	17-17-14-12-14	13-15-15-14-6
30	5-5-5-3-8	4-4-11-13-21
40	13-17-9-21-10	10-9-9-5-7
50	8-12-8-13-23	20-16-4-3-3
60	4-3-2-2-2	2-3-4-3-2
70	3-4-3-2-3	4-4-4-4-5
80	4-5-5-3-5	5-5-7-4-4
90	3-5-4-6-3	4-3-4-3-4
4300	4-3-4-4-5	5-4-5-6-5
4300 - 4310	3-4-4-3-4	4-4-3-4-3
20	4-4-4-4-4	6-5-4-2-3
30	7-5-8-6-5	4-4-2-2-1
40	1-2-2-1-1	4-3-2-1-1
50	1-2-3-1-1	1-1-2-3-2

Time Log  
 Einsel "B" No. 1  
 Comanche County, Kansas

Page 2

4350 - 4360	1-1-2-1-2	3-1-1-1-2
70	2-1-2-2-1	2-2-2-3-3
80	2-2-2-3-2	2-2-1-1-1
90	3-2-1-1-1	2-1-2-2-2
4400	1-2-1-2-3	2-2-2-3-2
4400 - 4410	3-2-2-2-2	2-2-2-2-3
20	2-2-2-1-2	2-2-2-2-3
30	2-2-3-2-2	4-4-3-2-2
40	2-2-4-3-4	4-4-4-3-4
50	3-5-4-5-5	4-4-3-3-3
60	3-4-9-6-7	8-7-8-9-7
70	9-5-5-5-7	5-8-7-6-8
80	7-8-8-8-10	9-11-9-11-11
90	11-9-9-9-8	7-6-6-5-8
4500	8-9-10-10-6	5-5-10-8-8
4500 - 4510	6-6-5-6-5	5-5-6-6-7
20	8-8-6-9-6	7-6-10-9-7
30	7-7-6-9-7	8-7-6-7-6
40	7-9-13-9-8	9-14-5-3-7
50	7-8-5-10-7	5-5-7-6-6
60	10-7-10-12-10	11-9-13-11-10
70	10-8-9-11-9	8-11-13-11-9
80	14-10-10-7-7	8-9-9-10-11
90	5-5-5-5-9	7-5-4-5-5
4600	5-5-5-4-7	7-6-4-5-7
4600 - 4610	8-11-8-8-3	3-2-5-9-13
20	12-13-10-9-8	7-5-4-5-5
30	2-5-5-5-4	4-4-10-11-12
40	5-7-5-8-8	4-4-4-4-7
50	7-4-4-8-7	9-7-6-6-6
60	6-6-7-7-6	6-5-6-5-13
70	12-10-8-9-8	10-10-9-9-10
80	9-7-9-10-6	7-8-7-3-1
90	$\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ - $\frac{1}{2}$ -1	1-8-8-9-8
4700	7-9-8-8-9	10-6-6-8-8
4700 - 4710	7-9-12-13-12	9-10-13-10-10
20	11-11-9-11-11	14-11-8-9-14
30	15-13-7-8-7	3-2-5-8-7
40	7-6-6-4-5	8-5-4-3-3
50	5-6-8-8-11	10-10-8-8-9
60	9-10-9-9-10	11-10-5-9-9
70	11-9-10-12-10	8-14-11-12-10
80	10-12-22-12-12	15-11-12-15-13
90	13-10-13-13-9	9-9-5-10-8
4800	7-10-7-8-7	7-2-2-2-1

Time Log  
 Einsel "B" No. 1  
 Comanche County, Kansas

Page 3

4800 - 4810	2-8-10-10-13	11-11-13-13-13	
20	11-17-12-13-11	14-13-15-13-11	
30	14-10-8-9-15	15-19-12-5-7	
40	5-7-5-6-7	7-5-18-12-7	
50	7-8-5-5-8	10-7-7-8-5	
60	3-10-4-4-4	7-7-7-5-5	
70	5-7-5-5-5	5-6-5-5-5	
80	6-5-8-6-3	4-3-3-7-4	
90	4-4-3-3-4	4-3-3-3-3	
4900	3-3-3-3-6	6-7-7-7-6	
4900 - 4910	6-8-8-5-6	9-8-8-8-9	
20	9-9-9-10-9	5-6-9-10-11	
30	15-15-11-9-9	9-11-12-11-7	
40	4-6-6-6-7	5-4-4-4-5	
50	7-8-12-6-6	5-7-5-9-9	
60	11-11-9-6-6	6-7-7-6-6	
70	10-9-12-9-9	11-8-9-8-9	
80	9-6-10-11-5	8-8-8-6-4	
90	8-7-6-4-5	4-4-7-6-5	
5000	6-8-9-8-8	9-7-9-7-6	
5000 - 5010	5-6-6-5-11	4-5-8-10-8	
20	8-6-11-11-8	7-5-3-7-6	
30	7-6-6-9-6	9-7-9-8-5	
40	6-6-5-2-2	5-3-5-4-2	
50	2-3-5-6-6	8-6-9-6-5	
60	7-6-6-5-7	6-8-8-7-7	
70	5-6-7-6-4	1-3-5-6-5	
80	5-7-4-5-6	6-10-8-4-3	
90	2-4-5-6-9	4-7-8-5-4	
5100	3-6-8-8-7	7-7-6-5-6	
5100 - 5110	12-11-12-11-9	8-7-8-6-5	
20	6-8-8-6-6	7-7-4-3-3	
30	3-2-4-5-6	8-6-5-3-8	
40	8-6-9-9-5	7-3-4-5-5	
50	6-11-8-9-5	2-1-3-7-6	DST #1 5143-58'
60	6-7-4-1-1	2-1-1-2-2	CFS @ 5158'
70	2-3-3-6-6	7-8-6-6-8	CFS @ 5170'
80	11-9-10-9-10	9-9-11-9-4	DST #2 5158-70'
90	4-4-4-2-9	8-7-8-7-7	
5200	6-7-7-7-9	8-9-8-8-7	CFS @ 5200'