

RECEIVED  
STATE CORPORATION COMMISSION

SEP 27 1968

CONSERVATION DIVISION  
Wichita, Kansas

09-27-1968

15-179-20137-00-00

GEOLOGICAL REPORT

#1 MOSIER "B"  
C NE NW Sec. 8-9S-28W  
Sheridan County, Kansas

GEOLOGICAL REPORT

15-179-20137-00-00

Company: Imperial Oil Company  
Farm: #1 Mosier "B"  
Contractor: Imperial Oil Co., Rig #2  
Pool: Wildcat

Sheridan County, Kansas  
C NE NW Sec. 8-9S-28W  
Elevation: 2712 K.B.  
Rotary Total Depth: 4091

Rotary Completed: 9-21-68

Geological Data:

Samples were examined from 3400 to Rotary Total Depth. One foot drilling time was kept from 3100 to Rotary Total Depth. (Electric log information: No electric log was run.)

Formation Tops

Sample Tops

Top Anhydrite	2339 (+ 373)
Base Anhydrite	2373 (+ 339)
Elmont	3509 (- 797)
Burlingame	3545 (- 833)
Howard	3576 (- 864)
Topeka	3611 (- 899)
Heebner	3808 (-1096)
Toronto	3831 (-1119)
Lansing	3846 (-1134)
Base Kansas City	4083 (-1371)
Rotary Total Depth	4091 (-1379)

Porosity and Shows of Oil

Elmont

3524-30 Buff, finely crystalline limestone. Trace of heavy, dark, scattered stain in vugs. No odor or free oil. Fair to good vugular porosity.

DST #1 3466-3535'. Open 60 minutes. Strong blow. Recovered 210' muddy water with no show of oil. ICIP 1123#/30", IFP 58#, FFP 129#, FCIP 1100#/30".

Toronto

3831-40 Cream, finely crystalline, slightly fossiliferous limestone. Trace of heavy, dark, scattered stain in a few pieces. No odor or free oil. Poor porosity.

DST #2: 3813-40'. Open 60 minutes. Weak blow for 3 minutes. Recovered 3' mud. ICIP 35#/30", IFP 23#, FFP 23#, FCIP 23#/30".

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Lansing  
3985-91

(140' Zone) Cream to buff, finely crystalline to sucrosic limestone. Trace of heavy, dark, stain in vugs. No odor or free oil. Fair vugular porosity.

DST #3

3967-90'. Open 60 minutes. Weak blow for 15 minutes. Recovered 30' watery mud. ICIP 1050#/30", IFP 0#, FFP 0#, FCIP 960#/30".

4026-35

(180' Zone) Buff, finely crystalline to sucrosic. Light, scattered, spotty satin to some scattered saturation in few pieces. Good odor and fair show of free oil. Poor pinpoint and vugular porosity.

DST #4

4009-35'. Open 60 minutes. Very weak blow for 7 minutes. Recovered 3' mud with a trace of oil. ICIP 58#/30", IFP 23#, FFP 23#, FCIP 35#/30".

Rotary Total Depth 4091 feet.

September 21, 1968

D & A

IMPERIAL OIL COMPANY

  
Charley V. Shank  
Geologist On Well

CVS:jl

DRILLING TIME LOG  
 #1 MOSIER "B"  
 C NE NW Sec. 8-9S-28W  
 Sheridan County, Kansas

15-179-20137-00-00

Depth	Minutes	Remarks
<b>1' Intervals</b>		
3100-3110'	1-1-2-2-3/4-2-1-1-2	
20	1-1-1-2-1/2-1-3-2-4	
30	4-5-5-8-9/7-5-5-4-3	
40	4-4-6-5-0/3-7-4-5-4	1' corr. @ 3135'
50	6-6-8-9-9/9-6-5-3-4	
60	5-5-3-3-3/3-4-3-2-2	
70	2-2-4-2-1/1-1-1-2-2	
80	1-2-2-2-1/2-2-2-2-1	
90	2-2-2-2-3/4-3-3-3-3	
3200	4-5-4-3-4/5-5-0-5-7	1' corr. @ 3198'
3200-3210	6-8-4-1-2/2-2-2-2-2	
20	7-5-3-4-4/2-3-2-3-2	
30	2-3-4-2-2/3-3-3-3-2	
40	2-3-2-3-2/2-1-2-2-3	
50	2-2-3-3-3/3-4-5-4-5	
60	3-3-4-4-7/6-6-6-9-7	
70	6-7-8-8-10/6-7-8-8-10	
80	6-4-4-4-4/4-4-5-5-4	
90	5-6-5-6-5/6-5-3-4-7	
3300	9-8-5-4-2/4-5-5-6-6	
3300-3310	6-6-5-5-4/4-4-4-5-6	
20	6-9-7-7-7/9-7-7-7-8	
30	8-9-8-6-7/8-5-5-6-5	
40	7-10-10-8-6/8-9-8-9-7	
50	8-9-9-6-5/5-5-6-6-5	
60	7-5-8-8-9/3-3-2-3-2	Trip at 3355'
70	3-3-2-2-2/2-3-2-3-2	
80	3-3-3-4-2/3-3-2-3-3	
90	3-3-3-2-2/2-2-3-3-4	
3400	3-3-4-4-4/3-2-3-2-3	
3400-3410	3-4-4-4-4/3-3-4-3-3	
20	3-3-5-3-3/3-3-3-3-3	
30	3-4-5-3-5/3-4-3-3-4	
40	3-4-5-4-3/4-3-3-3-3	
50	2-3-3-2-2/2-1-2-2-2	
60	2-1-2-3-2/2-2-1-1-1	
70	2-2-2-2-2/4-3-2-2-3	
80	2-2-3-2-3/2-4-2-3-2	
90	3-2-2-3-2/2-3-4-3-3	
3500	3-3-3-2-3/2-3-3-2-3	Slightly rough @ 3485-86 Slightly rough @ 3500'

DRILLING TIME LOG: #1 Mosier "B"

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Depth	Minutes	Remarks
1' Intervals		
3500-3510	4-3-3-3-3/3-3-2-1-2	
20	3-3-2-2-2/2-2-2-1-3	
30	2-2-3-4-3/3-2-2-2-4	
40	6-4-4-4-3/3-3-4-3-3	DST #1: 3466-3535; Circ.
50	4-0-3-2-1/3-4-3-4-3	Slightly rough @ 3544'
60	3-4-3-4-4/3-4-3-3-4	Circ.;
70	3-3-3-4-3/3-5-4-4-4	Slightly rough @ 3561'
80	3-4-4-6-6/3-4-3-2-4	
90	4-4-4-4-4/3-3-3-4-4	Circ. @ 3590'
3600	4-4-4-4-3/3-3-3-4-4	
3600-3610	4-4-5-0-4/4-4-5-5-4	1' corr. @ 3604
20	5-5-3-3-4/4-4-3-5-6	
30	6-5-5-4-4/5-4-3-4-2	
40	3-2-3-2-2/2-3-2-4-5	
50	6-6-5-4-5/4-6-5-4-5	
60	4-4-4-3-3/3-3-3-4-2	
70	2-2-3-3-2/3-3-2-2-2	
80	2-2-2-2-2/2-2-2-2-2	
90	2-3-3-3-3/4-4-4-4-4	
3700	4-4-6-6-6/7-5-4-4-3	
3700-3710	1-2-3-3-2/2-1-2-2-2	
20	1-2-1-2-2/1-2-2-1-2	
30	2-2-3-4-6/5-5-5-6-4	Trip @ 3729'
40	3-3-2-2-2/2-3-3-3-5	
50	4-4-5-4-4/4-5-3-4-3	
60	3-3-3-3-3/4-4-4-5-4	
70	3-4-4-4-5/4-4-4-2-4	
80	3-3-2-2-4/4-5-5-2-2	
90	3-1-1-2-1/1-1-1/3-1/3-1/3	
3800	3-2-3-2-2/2-3-2-3-3	
3800-3810	2-3-2-2-2/2-3-4-2-2	
20	3-6-8-5-6/6-7-7-8-6	Circ. @ 3820
30	6-4-4-5-5/7-6-5-6-6	
40	5-6-6-5-6/5-6-5-5-6	DST #2: 3813-40; Circ.
50	4-3-5-6-6/6-7-7-6-7	
60	6-5-6-6-5/5-6-5-5-5	
70	5-5-5-6-7/6-7-5-5-6	
80	6-7-6-6-6/7-5-4-5-4	
90	4-6-7-6-5/3-4-1-1-4	Circ. @ 3890
3900	5-5-3-5-8/11-9-9-9-9	

Drilling Time Log: #1 Mosier "B"

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Depth	Minutes	Remarks
<u>1' Intervals</u>		
3900-3910	8-9-9-10-9/6-6-10-5-6	
20	10-10-11-12-7/8-9-8-8-9	
30	7-8-10-8-6/3-7-9-8-2	
40	2-6-8-10-9/6-9-7-6-5	Circ.@ 3935'; Rough @ 3939'
50	5-5-6-10-6/6-6-5-4-5	
60	4-5-4-6-5/6-5-6-6-7	
70	6-5-4-5-6/8-7-7-3-7	
80	7-5-6-7-7/4-5-5-6-5	
90	5-2-3-4-1/8-9-9-8-8	DST #3: 3967-90; Circ.
4000	5-4-5-4-5/5-5-6-5-5	
4000-4010	5-5-6-6-6/5-5-6-7-5	
20	3-4-5-5-4/4-5-5-6-6	
30	5-5-4-3-3/4-5-5-6-5	
40	7-6-6-4-7/3-2-3-7-5	DST #4: 4009-35; Circ.
50	5-4-4-5-5/5-3-5-5-6	
60	5-5-6-5-5/5-5-5-5-5	
70	7-6-6-6-6/5-6-6-5-6	
80	5-4-5-6-6/6-5-6-5-6	
90	6-5-6-5-4/5-4-4-6-4	
4091	4	Circ. @ 4091'

Rotary Total Depth 4091'