

GEOLOGICAL REPORT

Company: Imperial Oil of Kansas, Inc.
Farm: Shipley No. 1
Contractor: Imperial Oil of Kansas, Inc.
Pool: Hortonville

SE SE SW Sec, 17-6S-26W
Sheridan County, Kansas
Elevation: 2649' R.B.
Rotary Total Depth 3909'

Rotary Completed 8-7-55

Geological Data:

Samples were examined on location, from 3300' to Rotary Total Depth of 3909'.

Formation Tops:

Anhydrite	2245' { 405 }
Heebner	3698' { -1049 }
Toronto	3721' { -1072 }
Lansing	3738' { -1089 }
Rotary Total Depth	3909'

Top Toronto 3721' (-1072) Porosity and shows of oil.

3721-27 Finely crystalline fossiliferous lime. Dark spotty stain. Trace heavy free oil. Fair to poor porosity.

D.S.T.#1 3706-33 Open 1/2 hour. Recovered 10' mud. I.F.P. 0#, F.F.P. 0#, B.H.P. 720# in 20 minutes.

Top Lansing 3738' (-1089) Porosity and shows of oil.

3767-71 (35' zone) Tan fossiliferous lime. Spotty stain. Trace heavy dark free oil. Some dead oil. Scattered vuggy porosity.

D.S.T.#2 3755-77 Open 1/2 hour. Recovered 10' mud. B.H.P. 0#.

3780-85 (50' zone) White to cream finely crystalline to dense lime. Dark scattered stain. Show heavy free oil. Fair to poor inter-crystalline and vuggy porosity.

3789-93 (51-55' penetration) Limestone as above, possible show of oil.

D.S.T.#3 3774-95. Open 35 minutes. Recovered 20' mud. I.F.P. 0#, F.F.P. 0#, B.H.P. 1015# in 20 minutes.

3808-14 (90' zone) Cream to tan finely crystalline oolitic and fossiliferous lime. Good stain with some saturation. Good show slightly heavy free oil. Fair to good inter-oolitic and fossiliferous porosity.

D.S.T.#4 3802-16 Open 1 hour, recovered 1920' gas, 60' muddy oil, 180' free oil. I.F.P. 0#, F.F.P. 110#, B.H.P. 1150# in 20 minutes.

3823-27 (100' zone) Tan finely crystalline slightly fossiliferous lime. Slight show free heavy oil. Fair to poor fossiliferous and inter-crystalline porosity.

D.S.T.#5 3818-32 Open 1 hour. Recovered 10' mud. B.H.P. 270# in 20 minutes.

3826-43 (120' zone) White dense cherty slightly fossiliferous lime. Spotty show dark free oil. Some vuggy porosity.

D.S.T.#6 3834-48 Open 1 hour. Recovered 52' muddy water. I.F.P. 0#, F.F.P. 25#, B.H.P. 700# in 20 minutes.

3860-62 (140' zone) Tan-cream dense fossiliferous lime. Questionable trace of dark stain. Possibly cave. Very poor porosity. Zone poorly developed.

3891-97 (180' zone) White dense lime. Trace dark stain. Possible trace heavy free oil. Poor porosity. Zone judged no value.

Rotary Total Depth 3909'

5½" casing cemented at 3909.

IMPERIAL OIL OF KANSAS, INC.

By:

Don D. Strong *ccp.*
Don D. Strong, Geologist

Orlin R. Phelps

lmd

DRILLING TIME LOG
Shipley No.1
 SE SE SW Sec. 17-6S-26W
 Sheridan County, Kansas

Depth	Remarks									
1' Intervals										

3300	5	4	5	3	5	5	5	5	5	
10	5	5	5	5	4	5	4	5	5	4
20	4	5	5	5	5	5	5	6	5	6
30	4	4	4	3	3	5	5	5	5	6
40	6	7	6	5	5	5	5	4	5	5
50	4	5	5	4	4	4	2	2	3	3
60	4	3	4	5	5	5	5	4	5	5
70	5	5	5	4	4	5	5	7	7	8
80	7	8	7	7	7	7	6	6	4	6
90	9	8	9	8	8	9	6	8	8	7
3400	7	7	8	9	9	9	10	9	9	10
10	9	10	10	10	6	5	6	6	5	5
20	9	9	6	5	3	3	3	6	10	8
30	11	5	2	3	5	7	8	8	8	6
40	7	6	6	6	6	5	5	4	4	4
50	6	4	3	7	8	9	8	8	9	7
60	8	8	7	6	5	4	5	6	6	6
70	5	7	8	8	7	7	9	9	8	6
80	6	4	4	4	3	6	5	4	4	3
90	5	5	6	6	3	6	5	6	5	5
3500	5	4	3	3	3	4	5	5	4	5
10	5	5	5	5	3	3	3	3	3	4
20	5	6	5	5	5	5	4	4	3	3
30	4	3	4	4	3	3	5	5	6	8
40	6	6	5	6	6	6	5	5	3	2
50	2	2	3	3	3	3	3	2	2	2
60	2	2	3	2	3	3	3	4	5	5
70	5	4	5	5	4	5	5	5	5	5
80	5	5	5	4	4	4	6	5	5	5
90	6	6	4	2	2	2	1	1	1	1
3600	1	1	1	1	2	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1
20	1	1	2	3	4	6	6	6	7	6
30	4	6	4	4	4	4	3	4	4	4
40	4	5	5	6	6	6	7	6	6	7
50	7	7	9	8	5	5	7	7	6	6
60	7	7	5	5	5	5	4	6	7	6
70	9	8	7	7	7	4	4	5	5	3
80	4	8	6	8	8	8	8	7	7	7
90	8	8	8	8	9	8	9	9	9	7

Trip OWV

Drilling Time Log

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Shipley No. 1

Depth		Remarks
1' Intervals		

3700	6 4 5 5 7 13 16 13 7 7	
10	7 8 6 10 8 7 8 8 9 7	
20	9 10 7 9 9 9 11 11 17 14	
30	12 12 15 12 5 7 7 7 7 7	3733 Circ. D.S.T.
40	7 6 6 5 5 6 5 5 5 6	
50	6 6 7 7 6 7 7 5 7 5	3752 Circ.
60	6 7 5 4 4 5 4 5 4 6	
70	6 4 7 9 8 8 6 5 3 2	3777 Circ. D.S.T.
80	3 3 8 5 5 8 12 9 8 3	
90	4 8 6 8 10 11 8 7 7 7	3795 Circ. D.S.T.
3800	6 5 7 8 5 5 5 5 5 4	
10	3 4 4 5 5 7 6 7 7 6	3816 Circ. D. S.T.
20	7 5 5 4 2 3 6 7 8 7	
30	6 5 6 9 10 10 10 9 10 8	3832 Circ. D.S.T.
40	6 9 8 12 14 13 12 11 14 10	3848 Circ. D.S.T.
50	9 9 5 5 4 5 4 5 5 5	
60	4 5 7 12 8 11 10 9 8 10	
70	12 10 7 9 9 10 9 4 5 6	3876 Circ.
80	7 6 4 3 4 3 3 4 4 4	
90	5 4 3 6 7 7 7 6 10 10	
3900	5 7 4 4 4 3 3 3 2 3	3909 R.T.D.