

GEORGE A. McCALEB
Consulting Geologist
SUITE 1007 BROWN BUILDING
TELEPHONE FO 3-4611
WICHITA 2, KANSAS

GEOLOGICAL REPORT

January 24, 1962

Raymond Oil Co., Inc.
No. 1 McClean
C SW NE, Section 28-16S-25W
Ness County, Kansas

Elevation: 2551 Gr.
2556 K.B.

Contractor: Raymond Oil Co., Inc. Casing Record
Commenced: January 6, 1962 (Rig #5) 8-5/8" @ 295'
Completed: January 22, 1962
Drill Stem
Tests: 2 taken (Listed after zones tested)
Cores: None
Electric Logs: None
Samples: Examined on location from 3700' to 4520' RTD.
Well Status: Dry and Abandoned

FORMATION TOPS
(Kelly Bushing Measurements)

Heebner	3847 (-1291)
Lansing-Kansas City	3887 (-1331)
Base Kansas City	4166 (-1610)
Ft. Scott	4393 (-1837)
Mississippi Lime	4497 (-1941)
Mississippi Dolomite	4504 (-1948)
Rotary Total Depth	4520 (-1964)

ZONES OF POROSITY, SHOWS OF OIL AND DRILL STEM TESTS

LANSING-KANSAS CITY

3917-3923	Limestone: Buff, oolitic, slightly fossiliferous, chalky. No shows.
3981-3987	Limestone: Tan, fine to medium crystalline, trace pin-hole porosity, no shows, no odor.
3997-4002	Limestone: Buff, tan, medium crystalline, well developed, coarsely oolitic and oolitic porosity, no shows, no odor.
4111-4117	Limestone: Buff, finely crystalline, fair to good oolitic and oolitic porosity, some white, chalky lime, no shows, no odor.

FORT SCOTT

4396-4404 Limestone: Tan, fine to medium crystalline, oolitic, poorly developed inter-oolitic porosity, very slight questionable stain, no odor.

4406-4409 Limestone: Tan, finely crystalline, trace of vuggy porosity, spotted light staining and slight show of free oil in vugs, faint odor.

DST No. 1 (Western) 4396-4420, open 30 minutes, weak blow 5" died, by-passed tool. Recovered 30 feet slightly oil cut mud, IBHP 359 psi/30 minutes; IFP 23 psi, FFP 39 psi; FBHP 109 psi/30 minutes. Bottom hole temperature 122°F.

MISSISSIPPI LIME

4497-4504 Limestone: Buff, finely crystalline, coarsely oolitic poorly developed porosity, no shows, no odor.

MISSISSIPPI DOLOMITE

4504-4509 Dolomite: Gray, finely crystalline, slightly sucrosic, fair to good vuggy porosity, scattered staining and a slight show of heavy, black oil in vugs, faint odor.

4509-4520 Dolomite: Gray, finely crystalline, slightly sucrosic, poorly developed inter-crystalline porosity, slightly argillaceous in part, no shows, no odor.

DST No. 2 (Western) 4500-4520, open 60 minutes, weak, steady blow for 30 minutes, weak, intermittent blow for 20 minutes. Recovered 120 feet mud, 60 feet very slightly oil specked mud, (slow packer leak during approximately 20 minutes of test). IBHP 1244 psi/30 minutes, IFP 23 psi, FFP 94 psi, FBHP 1006 psi/30 minutes.

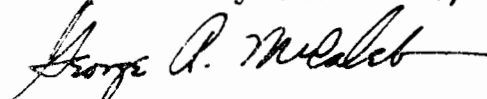
STRUCTURAL COMPARISON

	Pickrell #1 McClean (1/2 Mile West) (Ft. Scott Prod.)	Subject Test D&A	H. G. Kaiser #1 Hamlin (1/2 Mile SSW) D&A
Lans-Kans. City	-1325 (+6')	-1331	-1311 (+20')
Ft. Scott	-1836 (+1')	-1837	-1827 (+10')
Mississippi	-1937 (+5')	-1941	-1923 (+18')

REMARKS

The Fort Scott (Marmaton) while only one foot low structurally to Pickrell's No. 1 McClean failed to recover oil on Drill Stem Test No. 1 and the bottom hole pressures were low. Close in dry holes (see above structural comparison) that tested the Mississippian Dolomite through casing recovered water even though higher structurally. Due to the unfavorable structural position and poor recoveries on the drill stem tests, it was recommended by the undersigned that the subject test be plugged and abandoned as a dry hole.

Respectfully submitted,



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TIME LOG

<u>DEPTH</u>	<u>ONE FOOT DRILLING TIME</u>	<u>REMARKS</u>
3700-3710	3-3-2-4-4-4-2-2-2-2	
3710-3720	4-3-3-3-3-4-3-3-3-3	
3720-3730	4-4-3-4-2-4-5-5-4-5	
3730-3740	5-5-5-3-2-2-4-5-4-5	
3740-3750	5-5-5-4-3-3-3-3-4-4	
3750-3760	4-5-5-4-5-4-5-6-6-5	
3760-3770	4-4-3-6-5-6-7-7-8-10	
3770-3780	8-4-9-8-9-9-9-7-5-4	
3780-3790	1-2-3-3-3-4-5-7-7-7	
3790-3800	6-3-3-4-3-4-4-7-5-6	
3800-3810	5-4-3-4-3-3-2-2-3-2	
3810-3820	3-2-3-3-3-5-4-2-2-3	
3820-3830	3-3-3-4-4-3-5-4-2-2	
3830-3840	3-3-4-4-6-4-2-3-2-2	
3840-3850	2-3-2-3-3-4-6-4-2-4	
3850-3860	9-7-7-8-8-7-6-6-7-7	
3860-3870	4-7-5-1-3-2-3-3-3-4	Trip @ 3863
3870-3880	4-4-3-6-4-4-4-5-5-5	
3880-3890	5-4-5-4-4-4-4-5-4-5	
3890-3900	5-5-5-2-3-3-3-2-3-4	
3900-3910	3-3-3-6-6-5-5-6-7-5	
3910-3920	5-4-6-8-8-8-9-7-5-5	
3920-3930	5-5-6-5-5-5-5-3-4-4	
3930-3940	5-7-5-5-6-6-8-6-6-6	
3940-3950	5-6-4-4-4-4-4-3-4-*	*Kelly Corr
3950-3960	5-6-5-5-6-7-6-9-8-8	
3960-3970	7-10-10-10-9-8-6-4-4-5	
3970-3980	7-11-11-6-6-10-11-8-7-7	
3980-3990	3-2-2-3-6-3-4-7-6-5	
3990-4000	5-8-11-9-7-5-3-2-1-1	
4000-4010	1/5-1/5-1/5-1/5-1-1-1-1/5-1/5-1/5	
4010-4020	1/5-1/5-2-5-2-7-6-5-7-7	
4020-4030	7-5-4-5-5-5-5-6-6-7	
4030-4040	8-7-8-11-9-7-8-6-5-9	
4040-4050	7-8-7-10-10-8-9-6-7-12	
4050-4060	13-6-6-7-6-7-8-6-5-11	
4060-4070	6-8-5-9-8-11-10-7-8-7	
4070-4080	10-12-12-3-6-4-5-5-5-4	Trip @ 4074
4080-4090	3-3-3-2-3-4-4-4-5-5	
4090-4100	5-5-5-4-4-4-4-4-4-6	
4100-4110	6-5-5-5-3-2-2-3-2-3	
4110-4120	1-1-1R-1-2-1-2R-3-4-6	
4120-4130	5-5-6-4-6-6-6-7-5-5	
4130-4140	6-6-5-4-5-4-2-3-3-6	
4140-4150	6-4-4-4-5-7-8-9-7-6	

<u>DEPTH</u>	<u>ONE FOOT DRILLING TIME</u>	<u>REMARKS</u>
4150-4160	7-8-8-5-6-6-7-5-4-6	
4160-4170	6-8-8-10-8-5-5-3-5-5	
4170-4180	4-7-8-11-10-7-6-7-8-7	
4180-4190	5-6-6-7-6-6-11-12-12-9	
4190-4200	9-8-8-8-8-8-7-6-5-6	
4200-4210	6-6-10-10-7-8-7-7-7-9	
4210-4220	8-7-8-6-5-7-6-4-5-5	
4220-4230	4-6-5-8-9-12-10-9-7-4	
4230-4240	6-6-6-9-7-6-7-6-8-7	
4240-4250	7-10-10-4-4-5-4-5-5-4	Trip @ 4243
4250-4260	5-5-4-5-4-5-4-4-*3	*Corr.
4260-4270	4-5-6-5-4-4-3-3-3-3	
4270-4280	3-5-4-3-3-4-4-5-4-4	
4280-4290	4-4-4-4-5-3-4-5-4-3	
4290-4300	2-3-3-4-4-4-4-4-4-5	
4300-4310	4-5-5-5-4-5-6-5-7-6	
4310-4320	5-7-8-8-6-6-7-7-7-6	
4320-4330	7-*6-6-6-5-5-5-6-7	*Corr
4330-4340	7-7-8-8-9-9-8-7-7-7	
4340-4350	8-9-8-6-7-8-8-8-6-7	
4350-4360	9-8-6-5-5-6-8-8-7-8	
4360-4370	8-8-9-10-8-6-6-7-7-7	
4370-4380	5-7-7-7-7-7-5-6-7-7	
4380-4390	5-6-7-5-5-6-7-6-6-6	
4390-4400	6-6-4-6-8-7-6-4-4-4	
4400-4410	4-3-5-5-7-8-6-5-7-8	
4410-4420	9-7-6-5-7-8-7-8-5-5	
4420-4430	6-8-8-6-3-4-6-11-11-8	
4430-4440	7-7-5-7-6-9-9-6-6-7	
4440-4450	8-6-12-6-8-6-6-5-6-6	
4450-4460	6-9-9-8-6-3-6-7-9-7	
4460-4470	5-6-6-5-8-8-6-7-11-7	
4470-4480	4-4-5-7-5-7-7-7-8-7	
4480-4490	7-8-7-8-7R-8-5R-6-8R-8SR	
4490-4500	9VR-6VR-9R-8SR-8SR-6VR-10VR-12-SR-16-7	
4500-4510	6-6-6-7-3-3-3-4-5-5	
4510-4520	4-4-4-2-3-4-4-4-4-6	