

15-065-02707-00-01

RECEIVED  
STATE CORPORATION COMMISSION

OCT 15 1971

CONSERVATION DIVISION  
Wichita, Kansas

10-15-1971

GEOLOGICAL REPORT

Findley "A" No. 1

SW SW NW Sec. 28-8S-24W

Graham County, Kansas

← NOW CITIES SERVICE OIL CO.'S  
HOLLEY, NORTH LKC UNIT #101

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GEOLOGICAL REPORT

Company: Imperial Oil of Kansas, Inc.  
Farm: Findley "A" No. 1  
Contractor: Imperial Oil of Kansas, Inc.  
Pool: Holley

SW SW NW Sec. 28-8S-24W  
Graham County, Kansas  
Elevation: 2378' R.B.  
Rotary Total Depth 3888'

Rotary Completed 1-18-56

Geological Data:

Samples were examined from 3400' to Rotary total depth.

Formation Tops

|                    |       |         |
|--------------------|-------|---------|
| Anhydrite          | 2069' | (-309)  |
| Heebner            | 3663' | (-1285) |
| Toronto            | 3685' | (-1307) |
| Lansing            | 3701' | (-1323) |
| Rotary Total Depth | 3888' |         |

Porosity and shows of oil.

Toronto 3685' (-1307) No oil show. No value.

Lansing 3701' (-1323)  
3701-10 (0-9' penetration) Cream to tan finely crystalline to dense cherty limestone. Fair porosity. No oil show. No value.

3735-40 (35' zone) gray dense fossiliferous cherty limestone. Good spotty show free oil. Fair vuggy porosity. Spotty trace of good porosity. Zone should be perforated.

3744-46 (50' zone) White dense to chalky limestone. Trace free oil. Very poor staining. Very poor porosity.

D.S.T.#1 3741-60 Open one-half hour. Recovered 1' oil, 5' mud. B.H.P. 70#. (50' zone judged unworthy of further testing)

3779-85 (90' zone) Cream finely crystalline slightly oocastic limestone. Fair spotty show free oil. Very dark stain. Some barren porosity. Fair oocastic and inter-crystalline porosity.

D.S.T.#2 3772-82 Open 1 hour. Recovered 20' mud and trace of heavy oil. B.H.P. 100#. (90' zone was not entirely covered by D.S.T. #2, this zone should be carefully checked on the Halliburton log.)

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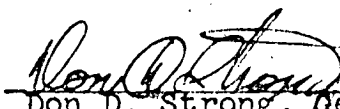
Geological Report

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Findley "A" No. 1

- 3787-93 (100' zone) Gray finely crystalline to dense vuggy limestone. Show free oil. Good spotty dark stain. Fair vuggy and inter-crystalline porosity. Zone should be further tested.
- 3833-36 (140' zone) Gray finely crystalline to dense partly fossiliferous limestone. Fair spotty show free oil. Trace good porosity. Stain is weak in samples
- D.S.T.#3 3816-40 Open 2 hours. Recovered 240' gas, 75' heavy oil cut mud. B.H.P. 510#.
- 3852-56 (160' zone) Gray to greenish dense shaly limestone. Very spotty show free oil. Some black dead stain. Very poor porosity.
- D.S.T.#4 3840-63 Open one-half hour. Recovered 5' mud. B.H.P. 0# (160' zone judged unworthy of further testing.)
- 3870-80 (180' zone) White to gray dense fossiliferous vuggy limestone. Good show free oil. Fair porosity, trace of good fossiliferous porosity.
- D.S.T.#5 3858-88 Open 1 hour. Recovered 1140' gas, 360' mud cut oil. F.P. 70# - 170# B.H.P. 935#.
- 5½" casing cemented at 3888 on 1-18-56.

IMPERIAL OIL OF KANSAS, INC.

By:    
Don D. Strong, Geologist  
Orlin R. Phelps, Geologist

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CONSERVATION DIVISION

Wichita, Kansas

Holley No. LKC UNIT #101 (Formerly Imperial Oil Company's Findley A #1)

Sec 28-8S-24W, Graham County, Kansas.

Elevation: 2378 (KB)

Formation Tops:

Anhydrite 2069' (+309)

Heebner 3663 (-1285)

Toronto 3685 (-1307) TD: 3897 1/2

Lansing 3701 (-1323)

Original Completion:

LKC - 200' zone, openhole 3888-3897 1/2'

acidized w/1500 gal. J-type acid by Chemical  
No water.

Process. Test: 26 BOPH. (16 hr Swab)

180' zone, perforated 3870-75 w/30 holes, Test:

18 BOPH - NW.

Tests indicated acid channeled (180' z to 200' z)

COMPLETION Date: 1-27-56.

Casing record: 8 5/8" @ 225' w/175 sacks

5 1/2" @ 3888 w/125 sacks.

Producing intervals: (since initial

(a) LKC - 140' zone (perf) 3829-34 w/40 jets., treated  
w/500 gal reg. acid (on vac.), pumped 26 BOPH

squeezed in 1966. in 4 hr., reacidized w/3000 gal. Gel-B.

→ (b) LKC - 35' zone perf. 3731-35 w/4 jets/ft., acidized  
w/500 gal reg acid. Test 4.2 BOPH, reacid.  
w/2000 gal Gel-B. Test - Swab 11.68 BOPH  
@ 4 pulls per hour.

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## Remedial work:

4-26-58 casing leak @ 2040', pumped 4 bbl per min  
@ 400 #.

Squeezed w/200 sx quick set, followed by  
30 sx Reg. Cem. Quick set & 10 sacks reg  
Cem. through hole.

5-18-58 perf 140' zone.

8-10-58 perf 35' zone

6-4-64 140' zone tested 1-4-24  
35' zone Tested 6-34-24

9-21-66 Squeezed off 'B' (35') zone, 65 sacks  
cement through perforations.  
prod. before squeeze 4-360-24, after  
4-244-24.

CURRENT Production: TA, last test - 5-396-24 (Aug 1970)  
from LKC zones:

(H) 140' - 3829-34

(J) 180' - 3870-75

(K) 200' - open hole 3888-98.

Accu production: 61125 Bbl.