

22-18-9W

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MAYFIELD & SMITH  
CONSULTING PETROLEUM GEOLOGISTS  
GENERAL BUILDING  
WICHITA, KANSAS

RESIDENCE: MU 4-4525  
MU 4-8481

OFFICE: AM 5-2064

April 13, 1964

Re: Nadel & Gussman - Mayfield-Smith Drlg.  
#1 BRONLEWE  
SE NW ~~SE~~ NE  
Section 22-18-9W  
Rice County, Kansas

Nadel and Gussman  
6th Floor - Union Center Building  
Wichita 2, Kansas

Dear Sirs:

Following is a Geological Report and Sample Description covering the above captioned well. Samples were examined from 2600' to total depth and the writer was present at the rig from 2750' to total depth.

FORMATION TOPS

Elevation:	1727' KB
<u>FORMATION</u>	<u>TOPS</u>
Heebner	2730 -1003
Toronto	2756 -1029
Douglas	2768 -1041
Brown Lime	2856 -1129
Lansing	2882 -1155
Base/Kansas City	3159 -1432
Shaley Conglomerate	3187 -1460
Cherty Conglomerate	3204 -1477
Simpson Shale	3255 -1528
Arbuckle	3264 -1537
Rotary Total Depth	3270 -1543

NO LOG RUN

FORMATION DESCRIPTION

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LANSING/KANSAS CITY

- 2902 - 2907 Buff fossiliferous limestone. Fair porosity. No shows.
- 2943 - 2946 Tan oolitic limestone. Poor porosity. No shows.
- 2955 - 2962 Tan oolitic limestone. Dense to poor porosity. No shows.
- 2969 - 2990 Buff oolitic limestone. Excellent porosity. Good odor. Good show free oil. This zone was barren in lower portion. Tested in Drill Stem Test #1.
- 3004 - 3010 White chalky oolitic limestone. No shows.
- 3019 - 3025 White soft chalky fossiliferous limestone. Poor porosity. No shows.

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- 3062 - 3070 White oolitic to fossiliferous limestone. Fair to good porosity. Fair show of free oil. Fair odor. This zone tested in Drill Stem Test #2.
- 3072 - 3079 White chalky limestone, trace of oolitic limestone. No shows.
- 3102 - 3108 Chalk and chalky oolitic limestone. Poor to fair porosity. No shows.

#### CONGLOMERATE

No sand development was encountered in Conglomerate section and the depth at which the sand zone was expected contained grey-green sand studded shale with some chert.

#### SIMPSON

No sand development was encountered in Simpson section.

#### ARBUCKLE

- 3266 - 3270 White medium crystalline dolomite, some nodular dolomite. Good odor. Trace of free oil, tested in Drill Stem Test #3.

#### DRILL STEM TESTS

##### Drill Stem Test #1 2968' - 2975'

Open 1 Hour. Weak Blow. Recovered 90' mud, rainbow show of oil. IF 0# FF 20# IBHP 1010#/20 min. FBHP 970#/20 min.

##### Drill Stem Test #2 3057' - 3084'

Open 1 Hour. Weak Blow. Recovered 45' mud. IF 10# FF 20# IBHP 1190#/20 min. FBHP 520#/20 min.

##### Drill Stem Test #3 3255' - 3270'

Open 1 Hour. Strong Blow. Recovered 30' oil, 2500' oil cut salt water. IF 600# FF 1175# IBHP 1200#/20 min. FBHP 1210#/20 min.

#### COMMENTS

Structural - this well was 6' higher than dry hole to the North on the top of the Lansing and 8' higher on top of the Arbuckle. Due to the absence of a commercial Drill Stem Test the well was plugged and abandoned at the Rotary Total Depth of 3270'

Respectfully submitted,

MAYFIELD & SMITH  
Consulting Petroleum Geologists

By: Charles R. Mayfield  
Charles R. Mayfield

Bronleezee  
NE/4 Sec. 22-18s-9w

CONToured ON: Arbuckle  
INTERVAL: 10'

- A DISPOSAL
- PRODUCER
- ⊕ DRY HOLE
- △ PRODUCING FORMATION
- E ELECTRIC LOG

