

6-15-1E

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B M & S Oil Company
Riordan No. 7
100' NW of C-SE-SW
Sec. 6-15S-1E
Dickinson County, Kansas
Elevation: 1308 RB
1307 DF
1301 GL

Spudded: September 4, 1984
Surface Casing: 8 5/8" set @ 208 feet, cemented with 150 sacks
of Class "A" common cement, 3% CaCl₂
Drilling Contractor: Kansas Drilling & Well Service, Inc.
Rotary Total Depth: 2646 feet

SAMPLE ANALYSIS REPORT

One (1') foot drilling time and ten (10') foot samples were kept from 1900 feet to rotary total depth. Five (5') foot samples were kept during the drilling of potential zones of production. The following data was compiled from sample analysis, time log, and electric log interpretation and correlation. All tops and zones of porosity are corrected to rotary bushing measurements. Samples were examined from 1900 feet to rotary total depth. The test well was under geological supervision from 1984 feet to rotary total depth of 2646 feet.

<u>FORMATION</u>	<u>SAMPLE</u>
Lansing	1928 (- 620)
Several zones of porosity were observed throughout the Lansing-Kansas City series. All the zones were barren.	
Base of Kansas City	2273 (- 965)
Fort Scott	2438 (-1130)
Cherokee	2464 (-1156)
Burgess	2573 (-1265)
2573-2582	Sandstone, clear, large grained, semi-rounded, frosted, loose grains, trace of dark stain, trace of free oil, odor.
Mississippi (Warsaw)	2583 (-1275)

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- 2583-2587 Dolomite, tan-gray, very fine crystalline, slightly glauconitic, fair-good crystalline porosity, good pinpoint porosity, good even stain, good show free oil, fair odor.
- 2587-2591 Dolomite, brown-tan, very fine crystalline, sucosic, good pinpoint porosity, good even stain, good show free oil, fair odor.
- 2596-2598 Dolomite, tan-cream, very fine crystalline, slightly sucosic, trace sharp chert, fair pinpoint porosity, trace crystalline porosity, fair stain, trace of free oil, faint odor.
- 2600-2603 Dolomite, tan-cream, very fine crystalline, sucosic, trace of sharp chert, fair pinpoint porosity, trace dead oil stain, no free oil, no odor.

Mississippi (Osage) 2628 (-1320)

COMMENTS AND RECOMMENDATIONS

The B M & S Oil Company's Riordan No. 7 test well encountered the Burgess and Mississippi formations within the limits of production of the Ash Grove Pool. Very good shows of oil were present in the Burgess and Mississippi formations.

The sample analysis, time log and electric log correlation, and structural position of the test well warrant further testing. The following zones should be evaluated on the N-GR log and tested through production casing:

- 2583-2591 Mississippi
- 2573-2582 Burgess

It was recommended that 4 1/2" 10.5# production casing be set at 2643 feet and cemented with 125 sacks of 60/40 Pozmix with 5# Gilsinite, 2% Gel, 3/4 of 1% CFR2.

Respectfully submitted, *H. C. Hopkins*
STATE CORPORATION COMMISSION

H. C. Hopkins
Geologist

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