

SAMPLE ANALYSIS REPORT

PACK-MALLARD; et al

#1 NELSON

NE c SW Sec. 3-19S-2W

McPherson County, Kansas

By

R.C. Bryan

Mr. Sam K. Pack
514 W K H Bldg.
Wichita, Kansas

SUBJECT: Pack-Mallard Drlg., et al
#1 Nelson NE c SW Sec.3-19S-2W
McPherson County, Kansas

Dear Sir:

The following is a sample analysis report for the above-captioned well:

The well was under geological supervision from 2298 feet to 2461 feet and from 2858 feet to 2956 feet, rotary total depth.

All tops and porous zones are based on Kelly bushing measurements.

Enclosed herewith is a copy of plotted drill time log showing lithology, porous zones and a bit record.

The following formation tops were determined from sample examination:

Elevation 1565 K.B.

Top Heebner	2086	- 521
Top Lansing	2334	- 769
Top Conglomerate	2911	- 1346
Top Mississippi		
Chert	2944	-1379
Top Mississippi		
Dolomite	2953	- 1388

STRUCTURAL COMPARISON:

The top of the Mississippi Chert is 6' higher than the B & R #1 Johnson in NW SE SE Section 4-19S-2W, and 3' higher than the Phil-Han #1 Pitts in the NE NE NW of Section 3-19S-2W. It is 2' higher than the Wolf Creek #1 Nelson in the SW SW SW Section 3-19S-2W and 13' lower than the Olsson & Shell #1 Russel in the c SE SE Section 3-19S-2W.

ZONES OF POROSITY AND STAINING:

Lansing-Kansas City:

2342-47	Limestone, tan-light gray with oolitic porosity with very few pin point specks of oil.
2347-52	Limestone, light gray, fine crystalline, with slight pin point porosity, no stain or odor.
2401-07	Limestone, light gray, fine crystalline, dolomitic, with slight pin point porosity, no stain.
2448-58	Limestone, tan, oolitic, no stain.

2470-84 Limestone, brown, oolitic, no stain or odor.
2629-31 Limestone, gray, oolitic, no stain or odor.

Mississippian Section:

2944-50 Chert, white to tripolitic, tripolitic porosity.
2953-56 Dolomite, brown, fine crystalline, spotty saturation
of light oil, few specks of free oil in samples.

CONCLUSIONS AND RECOMMENDATIONS:

Due to the porosity and free oil in the samples it was recommended by the undersigned that pipe be set at 2995 $\frac{1}{2}$ feet, 1-foot off bottom, and an attempt be made to complete the well.

Yours very truly,


R.C. BRYAN