

SAMPLE ANALYSIS REPORT  
HERNDON DRILLING COMPANY  
# 1 HUDSON  
SE SW NW, SEC. 22-34S-3W  
SUMNER COUNTY, KANSAS  
BY  
GERALD J. KATHOL

OWLL

# TOMLINSON & KATHOL

CONSULTING GEOLOGISTS

413-14 UNION CENTER

PHONE AM 7-3062

WICHITA 2, KANSAS

November 20, 1957

Herndon Drilling Company  
820 South Detroit  
Tulsa, Oklahoma

Subject: Herndon Drlg. # 1 Hudson  
SE SW NW, Sec. 22-34S-3W  
Sumner County, Kansas

Dear Sir:

The following is a sample analysis report of the above captioned well.

The well was under geological supervision from 3650 to 3800, 4250 to 4350 and 4660 to 4740 feet, rotary total depth. Samples were examined from 3100 to 4740 feet, rotary total depth.

All tops and zones of porosity are based on kelly bushing measurements.

The following formation tops were determined from sample examination:

Elevation 1202 KB

Top Kansas City	3605	-2403
Top Mississippian	4284	-2982
Top Viola	4724	-3522
Top Simpson	4729	-3527
5-1/2" Casing	4727	-3525
Rotary Total Depth	4740	-3538

Note: Structurally the Hudson # 1 is approximately five (5) feet higher on the sandy section of possibly Basal Viola or Top of Simpson Sand than the A. Subera # 4 and one (1) foot higher than the A. Subera # 5.

**Zones of porosity and staining:**

No shows of oil were recorded in any of the Kansas City beds.

**Mississippian Section:**

4284 - 4300 Chert, white fossiliferous, tripolitic. No free oil detected, no odor or stain.

4306 - 4320 Chert, similar to above. Porous and sharp in part. No odor or free oil. Very questionable light stain.

**Simpson Section:**

4729 - 4736 Sand, part limy with free oil and good fluorescence. Faint odor. Tested by Drill Stem Test.

4736 - 4740 Sand, light grained, some fluorescence with faint odor. This part of section contained purer sand, less lime, than the section described above.

**Drill Stem Test # 1**

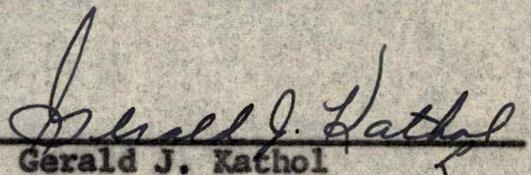
4727 - 4740 Open 1 hour, gas to surface in 1-1/2 minute, recovered 2800 feet gas and oil. Pipe clean itself at that time so no accurate fluid column could be measured. FP 200-480#, IBHP 1460#, FBHP 1410#.

In view of the very favorable structural position and excellent gas and oil recovery in Drill Stem Test, 5-1/2" casing was run to rotary total depth and pulled up thirteen (13) feet and cemented.

Respectfully submitted,

TOMLINSON & KATHOL

By:

  
Gerald J. Kathol