

SAMPLE ANALYSIS REPORT
HERNDON DRILLING COMPANY
2 F. SUBERA
NE SE SE, SEC. 21-34S-2W
SUMNER COUNTY, KANSAS

BY
GERALD J. KATHOL

Melroe
MANUFACTURED
MADE IN U.S.A.

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413-14 UNION CENTER

PHONE AM 7-3062

WICHITA 2, KANSAS

August 6, 1957

Herndon Drilling Company
827 South Detroit
Tulsa, Oklahoma

Subject: Herndon Drlg. # 2 F. Subera
NE SE SE, Sec. 21-34S-2W
Sumner County, Kansas

Dear Sir:

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

The well was under geological supervision from 4300 to 4400 feet and from 4700 to 4741 feet, rotary total depth. Samples were examined from 4300 to 4741 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 1193 DF - 1196 RB

Top Kansas City	3623	-2427
Top Mississippian	4304	-3108
Top Viola	4724	-3528 (?)*
Top Simpson	4732	-3536 (?)*
5-1/2" Casing	4733	-3537
Rotary Total Depth	4741	-3545

Note: Accurate formation tops of the Viola and Simpson are in question because the undersigned is of the opinion that most of the section considered to be Viola in the earlier wells is thought to be replaced by Simpson Sand. In all probability this same problem will exist in future wells drilled unless the entire section is cored and the contact picked after careful examination of the core. There is every probability that the Simpson sand actually is present from 4726, as interpreted by Schlumberger.

Zones of porosity and staining:

Mississippian Section:

4319 - 4342 Chert, white gray fossiliferous leached porosity, trace of very spotted stain. No odor or free oil detected in wet samples.

4357 - 4398 Chert, white vitreous to tripilotic pinpoint porosity. Very questionable stain.

Viola Section:

No lime and just a trace of sandy lime observed in the samples. Very, very sparse.

Simpson Section:

4332 - 4341 The sand clusters were very sparse. The small percent of clusters logged were of clear rounded grains clean with very minute fluorescence and a trace of light oil. Tested by Drill Stem Test.

Drill Stem Test # 1

4727 - 4741 Open 45 minutes, gas in 2-1/2 minutes, oil in 17 minutes, BHP 1375# in 45 minutes, FP 245-520#. Recovered drill pipe full of oil with 30 feet gas cut salt water at bottom.

In view of the very favorable drill stem test, 5-1/2" casing was run to rotary total depth and pulled up eight (8) feet and cemented.

Respectfully submitted,

TOMLINSON & KATHOL

By: 
Gerald J. Kathol