

**SAMPLE ANALYSIS REPORT
HERNDON DRILLING COMPANY**

3 SUBERA

NW NW SW, SEC. 22-34-3W

SUMNER COUNTY, KANSAS

BY

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413-14 UNION CENTER

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WICHITA 2, KANSAS

June 18, 1957

Herndon Drilling Company
823 South Detroit
Tulsa, Oklahoma

Subject: Herndon Drig. # 3 Subera
NW NW SW, Sec. 22-34-3W
Sumner County, Kansas

Dear Sir:

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

The well was under geological supervision from 4250 to 4380 and from 4680 to 4729 feet, rotary total depth. Samples were examined from 3600 to 4729 feet, rotary total depth.

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

All formation tops, zones of porosity and other measurements used in this report have been converted to Electric Log Measurements. Driller's measurements are approximately three (3) feet deeper than Electric Log Measurements.

Elevation 1189 DF - 1192 RB

Top Kansas City	3619	-2427
Top Mississippi	4300	-3108
Top Viola	4610	-3418
Top Simpson	4722	-3530
5-1/2" Casing	4719	-3527
Rotary Total Depth	4729	-3537

Note: Structurally the # 3 well is fourteen (14) feet higher on the Simpson Sand than the south offset, Subera A-2

Zones of porosity and staining:

Kansas City Section:

3706 - 3760 Sand, gray, fine grained micaceous. No show of oil.

Mississippian Section:

4308 - 4328 Chert, tripolitic to vitreous. Free oil, odor and good fluorescence. Tested by Drill Stem Test # 1.

Drill Stem Test # 1

4307 - 4322 E.L.M. (4310-25 Drillers Measurements)
Open 1 hour, good blow, recovered 270' gas, 80' gas cut mud. FP 0-65#, BHP 650#.

4328 - 4350 Chert, similar to zone above with less stain.

4360 - 4380 Chert, white vitreous, tripolitic. Trace of free oil and fluorescence. No odor. Scattered spotted stain.

Viola Section:

4710 - 4722 Dolomite and some lime with much floating sand. Very sandy at base. Mostly compact with scattered porosity with free oil and stain. Most of the section included in Drill Stem Test # 2.

Simpson Section:

4722 - 4729 (E.L.M.) Sand and dolomitic sand. Free oil in scattered good saturated stain and fair odor. Tested in Drill Stem Test # 2.

Drill Stem Test # 2

4714 - 4729 (E.L.M.) (4717-32 Driller's measurements)
Open 1 hour, gas to surface in 5 minutes, gaged 130,000 cubic feet at the close of the hour. Recovered 90' heavily oil and gas cut mud and 960' oil. FP 75-150#. BHP 1495#.

In view of the very favorable drill stem test and estimated structural position of the Simpson formation, 5-1/2" casing was run to rotary total depth and pulled up ten (10) feet and cemented.

Respectfully submitted,

TOMLINSON & KATHOL

By: Gerald J. Kathol
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