

SAMPLE ANALYSIS REPORT
HERNDON DRILLING COMPANY

2 SUBERA
SW SW SW, SEC. 22-34-3W

SUMNER COUNTY, KANSAS

BY

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WICHITA 2, KANSAS

February 18, 1957

Herndon Drilling Company
823 South Detroit
Tulsa, Oklahoma

Subject: Herndon Drlg. # 2 Subera
SW SW 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 3500 to 4744 feet, rotary total depth, intermittantly during the drilling of the Layton Sand, top of Kansas City Lime, upper portion of Mississippi Chat section and the basal Mississippian and pre-Mississippi section. Samples were examined from 1100 to 4744 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 1191 DF - 1194 RB

Top Stalnaker	3153	-1959
Top Layton Sand	3551	-2357
Top Kansas City Lime	3611	-2417
Top Mississippi	4309	-3115
Top Misener	4716	-3522
Top Viola	4721	-3527
Top Simpson Sand	4738	-3544
5-1/2" Casing	4740	-3546
Rotary Total Depth	4744	-3550

Note: Structurally the Herndon # 2 Subera is approximately fifteen (15) feet higher than Herndon Subera # 1, SW SE SE, Section 21-34-3W, two (2) locations to the west, a well that had a show of oil and gas in the top of the Simpson Sand.

12 3/4
5

3648.87
1000
4648.87

200 / 4649
400
649
621

23.4

1495
23
4485
2990
34355

Zones of porosity and staining:

Stalnaker Section:

No shows of oil were recorded in samples

Layton Sand Section:

No shows of oil were recorded in the sand section.

Kansas City Section:

3710 - 3770 Sand, gray fine granular, micaceous angular. The sand appears to be stained and should be closely watched during the drilling of subsequent wells. This portion of the Kansas City section was not observed at the time it was being drilled by the undersigned.

Mississippi Section

4309 - 4328 Chert, white, vitreous to tripolitic. Free oil with fluorescence. Lower portion of the section carried less stain. Tested by Drill Stem Test # 1.

Drill Stem Test # 1

4309 - 4325 Open 1 hour, good blow, gas to surface in 22 minutes, gaging 35,000 cubic feet. Recovered 220' slightly oil and gas cut mud watery at base of fluid column. No pressure recorded due to clock failure. Hit a bridge going into hole with testing tools and shattered clocks.

4377 - 4425 Chert, tripolitic, possibly some lime. A few cuttings appeared slightly stain; however, judged to be of no value.

Misener Sand Section:

4716 - 4721 Sand, clear, medium to large grains, phosphatic pyritic. Trace of free oil and fluorescence. Tested by Drill Stem Test # 2.

Drill Stem Test # 2

4718 - 4727 Open 1 hour, weak blow, recovered 20' mud.

Viola Section:

4721 - 4734 Lime, white slightly cream, large crystalline.
No show.

4738 - 4744 Sand, medium grained, some phosphatic grains.
Free oil, very sparse fluorescence and light
stain. The amount of sand in samples was less
than 1% of entire sample. Tested by Drill
Stem Test # 3.

Drill Stem Test # 3

4727 - 4744 Open 1 hour, good blow, heavy gas to surface in 15
minutes, gaged approximately 69,000 cubic feet.
Recovered 180' oil, 95' of oil and gas cut mud.
FP 30-125#, BHP 1695#.

In view of the favorable structural position of the Simpson Sand
section and the fair recovery of oil with good BHP, 3-1/2" casing was
run to rotary total depth and pulled off bottom four (4) feet and
cemented.

Respectfully submitted,

TOMLINSON & KATHOL

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