

OWLL

SAMPLE ANALYSIS REPORT
HERNDON DRILLING COMPANY

1 GERBERDING

SW NE NW, SEC. 36-33S-6W

HARPER COUNTY, KANSAS

BY

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TOMLINSON & KATHOL

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413-14 UNION CENTER

PHONE AM 7-3062

WICHITA 2, KANSAS

October 1, 1957

**Herndon Drilling Company
823 South Detroit
Tulsa, Oklahoma**

**Subject: Herndon Drlg. # 1 Gerberding
SW NE NW, Sec. 36-33S-6W
Harper County, Kansas**

Dear Sir:

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

The well was under geological supervision from 3400 feet to 4935 feet, rotary total depth. Samples were examined from 3000 feet to 4935 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 1278 DF - 1281 KB

Top Layton	3484	-2203
Top Kansas City Lime	3778	-2497
Base Kansas City	3939	-2658
Mississippian Chat	4458	-3177
Base Mississippian Lime	4828	-3547
Top Viola	4922	-3641
Top Simpson Sand	4926	-3645
Rotary Total Depth	4933	-3652

Note: All tops and measurements have been corrected to Halliburton measurements.

Structurally on the top of the Mississippian Chat the # 1 Gerberding was twenty (20) feet higher than the Cities Service Oil # 1 Hoopes 3/4 of a mile west in Section 35,; however, on the top of the Simpson Sand the # 1 Gerberding was fifty-two (52) feet lower than the Cities Service Oil # 1 Hoopes.

Zones of porosity and staining:

Layton Section:

3484 - 3573 Sand, fine grained, good porosity throughout section. No fluorescence, odor or staining. Judged not worth testing.

Kansas City Section:

3806 - 3811 Limestone, gray, tan crystalline some tan chert, fair inter-crystalline porosity. No odor or staining. Judged not worth testing.

3826 - 3840 Limestone, cream chalky. No odor or staining.

3852 - 3857 Limestone, white crystalline, fair inter-crystalline porosity.

3862 - 3870 Limestone, white, light gray, some gray chert fair porosity. No odor or staining.

There were no shows of oil or gas throughout the Pennsylvanian Section.

Mississippian Section:

4461 - 4478 Chert, white fresh opaque fractured, much white tripolitic weathered good odor, good fluorescence and free oil in wet sample, spotted staining and saturation in dry sample.

Drill Stem Test # 1

4461 - 4478 Open 1 hour, recovered 340 feet fluid, gas to surface in 1 hour, 25 minutes, 160' very heavily oil and gas cut mud, 150' muddy oil, 30' water. ISIP 1855#, FSIP 1730#, IFP 30#, FFP 170#.

4478 - 4488 Chert, white, opaque fractured, weathered, tripolitic slight decrease in staining towards bottom.

Drill Stem Test # 2

4478 - 4488 Open 2 hours, recovered 3150 feet, 540 feet fluid, 90 feet oil and gas cut mud, 120 feet very heavily oil and gas cut mud, 330 feet water. ISIP 1855#, FSIP 1795#, IFP 30#, FFP 255#.

- 3 - Herndon Drlg. # 1 Gerberding

4488 - 4498 Chert, white weathered, some fresh fractured.
No odor or staining. Judged not worth testing.

There were no other shows encountered in the Mississippian Section.

Viola Section:

4922 - 4926 Limestone, crystalline compact, no porosity or staining. Judged not worth testing.

Simpson Section:

4926 - 4933 Sand clear, light gray, medium sub-rounded grains in clusters, no odor, fluorescence or staining. Judged not worth testing.

It was recommended by the undersigned that casing be run to further test the Simpson section.

Respectfully submitted,

TOMLINSON & KATHOL

By:

Warren E. Tomlinson
Warren E. Tomlinson

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