

ST NCILED

MAY 21 1960

ORIGINAL

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540 Petroleum Bldg.
WICHITA, KANSAS 67202407 RULE BLDG.
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November 30, 1959

*Apache Oil Co*Apache #1 Gum
SW SW NE SEC. 3-27S-23W
Ford County, Kansas

GENERAL

Contractor: Capitt Drilling Company
Spudded: October 28th, 1959
Completed: November 27th, 1959
Rotary: Surface to 5182' T. D.

CASING

8 5/8" Cemented @ 191'/350 sacks

*Dry*GEOLOGICAL
DATASamples saved, drilling-time recorded from surface to the total depth.
Elevation: 2461' Ground, 2467' Derrick Floor, 2470' Rotary Bushing;
Rotary bushing elevation and measurements used.

FORMATION TOPS	SAMPLES		SCHLUMBERGER	
Heobner	4194	-1724	4186	-1716
Toronto	4212	-1742	4206	-1736
Douglas	4242	-1772	4236	-1766
Lansing	4310	-1840	4304	-1834
Cherokee	4858	-2388	4852	-2382
Cherokee Sand	5009	-2539	5000	-2530
Mississippian	5028	-2558	5020	-2550
Total Depth	5182	-2712	5174	-2704

NOTE: Driller's T. D. 5182'; Schlumberger T. D. 5174'
All measurements in this report, unless noted otherwise,
will be driller's measurements.DRILL
STEM TESTS

None

CORES

None

ADDITIONAL LOG TOPS

Blaine Gypsum	980	+1450
Cimarron Anhydrite	1505	+965
Herrington	2620	-150
Wabaunsee	3535	-1065
Topeka	3735	-1265

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LOGS
RUN

Schlumberger (Amplified S. P., Laterolog, Microlaterolog)

PAY
SECTION

None

IMPORTANT
ZONES
BEHIND CASING

T.D. 5182

Samples were examined from 2000' to the total depth. Until the finished print of the electric log is received, I would prefer not to call the upper markers. Occasional porous zones were noted through the Lower Permian and Upper Pennsylvanian, but no staining. Also, a Baroid gas detector was in operation through this section without detecting any gas.

Toronto

Drillers Log Not Available

3212-42

Mostly white, soft, chalky limestone, and white, dense, fine crystalline limestone. No visible porosity.

Douglas

4242-72

Gray, soft, lumpy shale

4272-84

Limestone, white, soft, chalky.

4284-4310

Gray, soft, lumpy, silty shale.

Lansing KU

4322-40

White, very soft, chalky limestone, no porosity, no oil staining.

4420-40

White, soft, chalky to fine granular limestone, no porosity, no oil staining.

4454-4500

White, soft, chalky limestone, no porosity, no oil staining.

4550-60

White, tan, fine crystalline to chalky limestone, spotted oolitic porosity, no oil staining.

4600-18

White, fine crystalline limestone, trace oolitic porosity, no oil staining.

Cherokee Sand

5009-11

Sand, coarse to medium grained, angular, well sorted, slightly calcareous, poor porosity; no oil staining.

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Mississippian

5025-70 Mostly white, fine, granular to chalky limestone; abundant gray, pink, buff, translucent chert. No porosity, no oil staining.
5070-85 Tan, silty, dolomitic limestone, traces gray, slightly tripolitic limestone. No porosity, no oil staining.
5085-5100 White, dense, fine to coarse crystalline limestone. Chert, as above, no porosity; no oil staining.
5100-04. Probably gray, soft, tripolitic chert. Slight porosity, no oil staining.
5104-51 White, buff, dense, fine crystalline limestone; no porosity, no oil staining.
5154-56 Chert, gray, tripolitic, porous, no oil staining.
5156-82 Limestone, cherty, as above.

SUMMARY

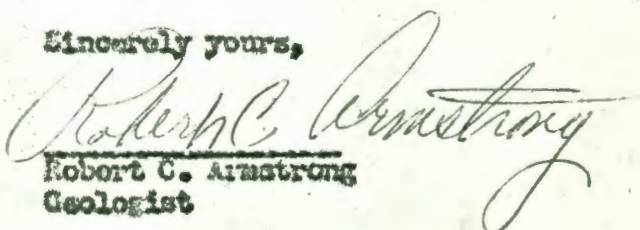
Structurally, this well appears to be slightly lower than regional dip. On Lansing, with a datum of -1840, the well is 45 feet lower than the Colorado Oil & Gas dry hole 2 miles northwest, and 28 feet higher than the Siegal dry hole 3 miles south. The Lansing fairly well reflected the Mississippian. This formation had a datum of -2553 on the #1 Gum, compared with a datum of -2491 on the dry hole to the north, and -2593 to the south.

There were no oil shows nor any evidence of gas in this hole. The Baroid machine was in operation above the Hugoton gas interval. There was very little porosity through this interval and no increase in normal hydro carbon was noted.

Several "drilling breaks" were present in the Lansing, Kansas City, but actually very little porosity. The fast drilling was due to soft chalky limestones. In the Cherokee, a two foot sand streak was drilled. This sand was too thin and too tight to be of commercial importance.

The Mississippian was drilled to a penetration of 154'. Very little porosity and no oil staining was found in this formation. Due to the low structural position, the well was abandoned at this point.

Sincerely yours,


Robert C. Armstrong
Geologist