

5-12-150

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RUSSELL, KANSAS

February 2, 1965

GEOLOGICAL REPORT:

Sutton A-3 ✓
NE SW SE
Sec. 5-T12S-R15W
Russell County, Kansas

OPERATOR:

Louis M. Mai Operations
Box 33
Russell, Kansas

CONTRACTOR:

L. J. Dreiling & Sons
Victoria, Kansas

ELEVATION:

Laughlin-Simmons Co.
Derrick Floor: 1729'
Kelly Bushing: 1732'

All measurements shown in this report
are taken from Kelly bushing.

SAMPLES:

10' intervals from 2500 to 2700'.
5' intervals from 2700 to 3390', T.D.

All samples were examined and zones of
interest described. Samples will be
sent to Kansas Sample Library at Wichita.

DRILLING TIME:

1' intervals from 2500 to 3390', T.D.

A copy of the drilling time is included
with this report.

ROTARY COMMENCED:

Jan. 22, 1965

ROTARY COMPLETED:

Feb. 1, 1965

CASING RECORD:

10 3/4" surface casing @ 180'
7" at 3260', and cemented with 125
sacks. DV Tool at 800' and cemented
with 350 sacks.

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Sutton A-3 5-12-15
 FORMATION TOPS:

Anhydrite:	795	(- 937)
Topeka Lime:	2592	(- 860)
Heebner Shale:	2810	(-1078)
Toronto Lime:	2831	(-1099)
Lansing-Kansas City:	2865	(-1133)
Base of Kansas City:	3123	(-1391)
Gorham Sand:	3165	(-1433)
Cherty Conglomerate:	3176	(-1444)
Solid Arbuckle Dolomite:	3251	(-1519)
Reagan Sand:	3353	(-1621)
Granite:	3386	(-1654)
Total Depth:	3390	(-1658)

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SAMPLE DESCRIPTIONS:

Topeka Lime:

- 2594-98: Ls; light gray, buff, fine crystalline, succssic, with pin point porosity. Rare light oil stain.
- 2610-15: Ls; light gray, fine crystalline, with pin point porosity and scattered, light oil stain.
- 2773-79: Ls; light gray, chalky, slight fossiliferrous, with trace of spotty oil stain and fair porosity.

Toronto Lime:

- 2832-36: Ls; cream, buff, slight cherty, crystalline, chalky with trace of spotty oil stain. Slight porosity. No free oil.

Lansing-Kansas City:

- 2868-73: Ls; white, buff, fine crystalline, slight chalky with rare oil stain, poor saturation, slight porosity and no free oil.
- 2890-94: Ls; white, buff, crystalline, chalky, slight fossiliferrous, with trace of oil stain and slight porosity. No free oil.
- 2907-14: Ls; white, buff, crystalline, slight fossiliferrous, with fair porosity. Rare oil stain and no free oil.
- 2948-53: Ls; white, buff, crystalline, chlaky and partly oolitic with rare light oil stain, slight porosity and no free oil.
- 2960-66: Ls; white, buff, oolitic and oolitic with fair porosity and barren porosity. Rare oil stain and slight show of free oil. No odor.
- 3001-05: Ls; light gray, buff, tan, crystalline, wlight chalky, slight fossiliferrous, with trace of light oil stain and no free oil. Slight porosity.
- 3026-30: Ls; light gray, buff, crystalline, slight oolitic and fossiliferrous, with trace of light stain. No free oil. Slight porosity.
- 3046-52: Ls; light gray tan, crystalline, cherty with faint trace of oil stain. Trace of oolitic porosity. No free oil.
- 3082-90: Ls; light gray, tan, dense with faint trace of tight oil stain. No free oil.

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Sutton 'A' 3
5-72-19W
84
samples, cont.

Gorham Sand:

3165-69: Ss; clear to white, fine to medium grained, subrounded to subangular, good clustering, scattered oil stain, poor to fair saturation. Show of free oil and faint odor. Open on DST #1 & 2.

DRILL STEM TEST #1: 3159 to 3170: (Halliburton Tool)

Tool open: 30 minutes with no blow.

Recovered: 30' of mud

20' of slight oil cut mud

IBHP: 950 psi in 30 min. FBHP: 822 psi in 30 min. FP: 16 to 45

3170-76: Ss; as above with oil show as above. Fair porosity. Open on DST #2.

DRILL STEM TEST #2: 3158 to 3176 (Halliburton Tool)

Tool Open: 1 hour with weak blow throughout test.

Recovered: 30' mud

30' oil cut mud

20' of muddy oil.

IBHP: 914 psi in 30 min. FBHP: 762 psi in 30 min. FP: 14 to 54

Conglomerate:

3179-83: Ss; as above with slight show of free oil. Abundant various colored chert and shale

3183-08: Chert; various colored, along with various colored, soft shales. Still carrying some medium grained sand. Some tarry residue.

3208-24: Dol; buff, gray, fine to coarse crystalline, very sandy with sand inclusions. Some sand clusters with dolomitic cementing agent. Asphaltic residue and tarry stain. Till carrying abundant vari-colored cherts and shales.

3224-32: Dol; as above with increase of sandy dolomite and dolomitic sand. Much vari-colored chert and shale. Asphalt and tar.

3232-44: Dol; more white, fine crystalline, still very shaley and cherty with asphalt and tar. Still carrying some sand.

3244-51: Dol; gray, very sandy, and cherty and shaley as above. Asphalt and tar.

Solid Arbuckle:

3251-61: Dol; white, fine crystalline, very chalky and shaley.

3261-86: Dol; white, fine to medium crystalline, chalky. Porous.

3286-10: Dol; white, buff, fine to medium crystalline, chalky and porosity.

3310-34: Dol; buff, white, fine to coarse crystalline, slightly chalky and good porosity.

3334-53: Dol; as above with also, some pink and tan crystalline dolomite. Porosity. Beginning to become sandy in lower part.

Reagan Sand:

3353-86: Ss; fine to coarse grained, clear to slight orange-brown cast, some dolomitic cement. Slightly glauconitic in lower part. Some fractured quartz, with biotite from 3380-86 (Granite Wash?).

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Sutton A-3

5-12-5W

REMARKS & RECOMMENDATIONS:

The Sutton A-3 ran quite low on all Formations, and drilling was continued to Granite for completion as a salt water disposal in the Arbuckle. All zones of interest were described in the body of this report, and while there were some oil shows present in the Topeka, Toronto, and Lansing-Kansas City, none were considered to have any commercial importance for production.

Two drill stem tests were run in the Gorham Sand, with results indicating that this Formation may produce commercially, if the sand body is clean enough. I recommend that a cased hole-Gamma Ray-Neutron-Collar Log be run, and all zones of porosity accurately located, and evaluated; with particular attention being paid to the Gorham Sand section. If the sand appears clean, and adequate porosity is present; then, the section should be perforated and tested. Perforating should be done from collar. measurements.

Respectfully submitted;

Francis Whisler

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