



BILL JOHNSON

Petroleum Geologist
STAR STREET VENTURES

23-14-14W

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MAILING ADDRESS
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State Geological Survey WICHITA BRANCH

Saco Oil Company
P.O. Box 231
El Dorado, Kansas 67042

Re: Gurney #7
SE NW SW
Section 23-T14S-R14W
Russell County, Kansas

Dear Sir:

The following report on the subject well is based on rotary cuttings from 1623 feet to rotary total depth of 3200 feet. All measurements were taken from Kelly bushing which was five feet above ground level.

The following tops were picked:

Elevation Kelly bushing 1823 L&S

Sample Tops

Barneston	1712	(✓ 111)
Matfield Shale	1840	(- 17)
Wreford Limestone	1914	(- 91)
Funston Limestone	1964	(- 141)
Crouse Limestone	1980	(- 157)
Eskridge Shale	2050	(- 227)
Grenola Limestone	2072	(- 249)
Legion Shale	2130	(- 307)
Roca Shale	2136	(- 313)
Red Eagle Limestone	2144	(- 321)
Bennett Shale	2160	(- 337)
Admire Group	2194	(- 371)
Wabaunsee Group	2258	(- 435)
Grandhaven	2300	(- 477)
Tarkio Limestone	2404	(- 581)
Elmont Limestone	2466	(- 643)
Wakarusa Limestone	2512	(- 689)
Burlingame	2536	(- 713)

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Sample Tops continued

Howard Limestone	2606	(- 783)
Topeka Limestone	2674	(- 851)
King Hill Shale	2756	(- 933)
Queen Hill Shale	2818	(- 995)
Heebner Shale	2903	(-1080)
Toronto Limestone	2920	(-1097)
Douglas Group	2936	(-1113)
Lansing-Kansas City	2965	(-1142)
RTD	3200	(-1377)

MAJOR ZONES OF INTEREST (Depths adjusted to Radiation Guard Log)

Barneston. 1720-1730. Limestone, light tan, medium to coarse crystalline, good crystalline porosity, log indicates this could be a gas zone, no shows were noted.

Crouse. 1974-1978. Limestone, light tan, fine to coarse crystalline, vugular porosity, spotty fluorescence, no show free oil, log indicates this could be an oil zone, this zone should be tested before well is abandoned.

Tarkio. 2404-2410. Limestone, light tan white, fine crystalline, tight, no oil shows.

Topeka. 2674-2680. Limestone, tan, fine crystalline, tight, no shows.

Toronto. 2920-2930. Limestone, light tan, fine crystalline, tight, spotty fluorescence, no show free oil.

Lansing-Kansas City.

Zone A. 2964-2970. Limestone, light tan, fine to medium crystalline, spotty fluorescence, should be tested for production.

Zone B. 2988-2994. Limestone, light tan, fine crystalline, tight, spotty fluorescence, odor, this zone should be tested for production.

Zone C. 3002-3007. Limestone, tan and light tan, fine crystalline, vugular porosity, oblitic, show free oil, fair odor, spotty fluorescence, this zone should be tested for production.

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Zone D. 3025-3030. Limestone, light tan, fine to medium crystalline, friable, spotty fluorescence, log looks tight.

Zone E. 3046-3054. Limestone, light tan, fine crystalline, tight, light odor, spotty fluorescence.

Zone F. 3058-3070. Limestone, light tan, white, chalky in part, fine with some medium crystalline, very weak show free oil, very weak fluorescence, the upper three feet of this zone could be tested for production.

Zone G. 3090-3102. Limestone, light tan, fine crystalline, chert sharp tan white, weak odor, very weak fluorescence, tight, did not indicate production on log.

Zone I. 3130-3135. Limestone, tan white, coarse crystalline, good crystalline porosity, no odor, spotty fluorescence, log indicated this zone should be checked for production.

Zone J. 3152-3156. Limestone, tan, medium crystalline, fair crystalline porosity, weak show free oil, no odor, spotty fluorescence, this zone should be tested for production.

SUMMARY

Due to oil shows in the Lansing-Kansas City 5½ inch casing was run and cemented to test this zone for production. Before well is abandoned the Grandhaven at 2332 to 2338 and 2364 and 2372 should be tested for production. The sample did not indicate show. The Crouse Limestone from 1974 to 1980 should also be tested for production.

Suggested zones in Lansing Kansas City to perforate are as follows:

First-3152-3156

Second-3109-3114 and 3130-3134

Third-3058-3063

Fourth-2964-2970 and 2988-2994 and 3003-3008

Sincerely yours,



Bill Johnson

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