

31-8-16W

SW SW NW

15-163-19048

LEE H. CORNELL
Petroleum Geologist
PHONE AMHERST 2-3921
706 ORPHEUM BUILDING
WICHITA 2, KANSAS

February 2, 1963

Ryan Consolidated Petroleum Corporation
3400 Republic National Bank Building
Dallas, Texas

Re: No. 1 BOLLER "B"
SW SW NW 31-8-16W
Rooks County, Kansas

Gentlemen:

The following is my report on the above captioned well. One foot drilling time was kept and five foot samples saved from 2800 feet to 3360 rotary total depth. All samples were examined and discarded at the well. The original drilling time sheets are enclosed with this report and a copy of the drilling time will be sent to the Kansas Well Log Bureau.

MISCELLANEOUS DATA

Contractor: Bergman Drilling, Inc., Wichita, Kansas
Surface Casing: 8 5/8" set at 160 and cemented with 140 sacks
Oil String: 4 1/2" set at 3356 (Welex measurements)
Centralizers: Top of 1st, 3rd, 5th, 8th and 13th joints and in the Anhydrite at 1190 feet
Drill pipe strapped at 2955'. Board 2965.31
Strap 2962.71
Difference 2.60
(No correction made in measurements).

FORMATION TOPS

Elevation: 1878 Ground; 1883 K.B.

	<u>By Samples & Drilling Time</u>		<u>By Welex</u>	
Anhydrite	(Driller)	1175 + 708	1179	+ 704
Topeka	(est.)	2778 - 895	2774	- 891
Heebner		2997 -1114	2994	-1111
Toronto		3018 -1135	3016	-1133
Lansing		3039 -1156	3036	-1153
Base Kansas City		3284 -1401	3280	-1397
Arbuckle		3349 -1466	3351	-1468
Total Depth		3360 -1477	3358	-1475

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STRUCTURAL POSITION

On top of the Lansing, No. 1 Boller "B" is 5 feet lower than No. 1 McComb to the north, 5 feet lower than No. 2 Boller to the south and 2 feet lower than Rosencrants & Bemis No. 1 Denio, the west offset. On the Arbuckle it is 9 feet lower than No. 1 McComb, 13 feet lower than No. 2 Boller and 7 feet lower than No. 1 Denio.

TOPEKA SECTION

- 2938-2942 Limestone, crystalline, pin-hole porosity, no odor, very slight show of free, dark oil, dark stain. Zone appears to be of no value.
- 2954-2956 Limestone, cherty, chalky in part, no odor, no free oil, no stains. Zone of no value.

LANSING - KANSAS CITY SECTION

- 3046-3048 Limestone, fossiliferous, no odor, no free oil, trace of staining. 5% porosity, 43% water saturation. Zone of no value.
- 3043-3045 Limestone as above. 6% porosity, 73% water saturation. Zone of no value.
- 3082-3087 "40 foot zone" Limestone, crystalline, cherty. No odor, no free oil, no stains noted. 7-11% porosity, 63 to 64% water saturation. Zone of questionable value.
- 3090-3095 "60 foot zone" Limestone, with vugular and some fossil-cast porosity, no odor, small show of free oil, fair to good staining. 8½ to 9% porosity, 45 to 59% water saturation. Recommend to perforate.
- 3128-3130 "90 foot zone" Limestone, sub-oolitic, slightly cherty, no odor, very small show of free oil, slight staining. 5½% porosity, 71% water saturation. Not recommended to perforate.
- 3138-3140 "100 foot zone" Limestone as above. 6 to 11% porosity, 57 to 75% porosity. Not recommended to perforate.
- 3196-3200 "160 foot zone" Limestone, vugular porosity, faint odor, small show of free oil, fair to good staining. 9½% porosity, 66% water saturation. (Some mud was lost in this zone, which may account for the high water saturation). This is the best zone noted in samples and is recommended to be the first zone to be perforated.

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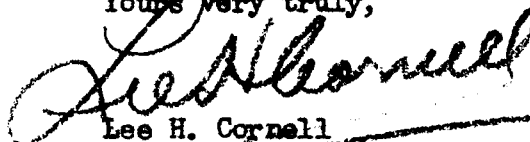
✓ 3217-3225 "180 foot zone" Limestone, chalky in part, some vugular porosity, no odor, very small show of free oil, spotted dark staining. 3217-21, 5% porosity, 42 to 59% water saturation; 3221-25, 11% porosity, 80% water saturation. The lower 4 feet of this zone is probably the chalky part and it is recommended to perforate the upper part from 3217-3221.

✓ 3244-3248 "210 foot zone" Limestone, poor vugular porosity, no odor, small show of free oil, spotted staining. 4% porosity, 59% water saturation. Zone is of questionable value and is recommended for possible perforating.

ARBUCKLE SECTION

3351-3358 Dolomite, gray to cream, oolitic in part. slightly cherty, no odor, no free oil, no staining. The Arbuckle section is of no value.

Yours very truly,


Lee H. Cornell

LHC:ws

Ryan Consolidated Petro. Corp.

DRILLING TIME
No. 1 BOLLER "B"

3200-3210	5-5-9-8-10	5-8-9-13-13
-3220	9-4-4-9-6	9-6-7-7-7
-3230	9-10-8-6-6	7-6-8-14-10
-3240	11-11-6-3-3	7-5-7-7-6
-3250	4-4-5-4-6	8-11-12-10-10
-3260	13-10-12-11-9	10-14-10-9-11
-3270	11-8-5-6-6	9-9-8-9-8*
-3280	6-5-6-4-5	6-5-6-5-6
-3290	7-9-6-5-4	4-6-5-5-6
-3300	5-6-5-6-5	5-5-4-5-4
3300-3310	5-5-4-4-4	3-3-5-7-7
-3320	6-6-8-7-7	6-8-9-7-6
-3330	5-7-7-7-6	7-8-7-5-7
-3340	5-6-3-3-7	10-5-7-7-6
-3350	5-5-4-6-5	5-7-8-8-7
-3360	9-7-5-5-5	4-2-2-4-4

VSR 3201 & 3202.
Circ. 20 min. @ 3210'
Circ. 1/2 hr. @ 3230'

Circ. 30 min. @ 3255'
*Trip @ 3270'

SR 3350'
SR 3351, 3353, 3354,
3355, 3357 & 3358.
Circ. 1/2 hr. @ 3355'
Circ. 1 1/2 hr. @ 3360'