33-16-12 W

S A M P L E A N A L Y S I S R E P O R T

D. R. Lauck

#1 Finger

SW NW NE 33-16-12W
Barton County, Kansas

by

N. D. CLARK

33-16-12W

Petroleum Geologist

N. D. CLARK

1323 Union National Bank Building

Wichita 2, Kansas *FOrest 3-2638*

June 28, 1956

Mr. D. R. Lauck
301 South Broadway
Wichita, Kansas

Re: D.R. Lauck, #1 Finger
SW NW NE 33-16S-12W
Barton County, Kansas

Dear Sir:

Samples were examined on this well from 2700 to 3365 RTD and I observed drilling operations from 3075 to the total depth. All measurements are from the rotary bushing with an elevation of 1887.

On the top of the Lansing-Kansas City, this well was flat with several of the wells in the Beaver South Pool and the Arbuckle was lower than all but one. The Lansing datums of the producers range from -1198 to - 1212 and the Arbuckle from - 1449 to - 1468. This well had a Lansing-Kansas City datum of - 1203 and an Arbuckle datum of - 1464.

Five drill stem tests were taken: one in the Kansas City, one in the Conglomerate, and three in the Arbuckle. Based on Sample examination, there are no zones in the Kansas City which appear to have commercial possibilities. The Conglomerate was sandy and cherty and although a fair showing of oil was found in the samples a drill stem gave up no oil. Perforating this formation can not be recommended. The Douglas section was drilled before I arrived at the well and had I been there when it was drilled I would have taken a drill stem test in it. It had a section of fine grain sand, with a thickness of at least 10 feet, carrying a light tan oil staining. Some consideration should be given this zone before the well is abandoned.

Since an electric log was not run, all formation tops and all zones of porosity are based entirely on sample interpretation.

FORMATION TOPS

Elevation 1887 RB

Top Anhydrite	850	+1037
Top Heebner	2984	-1097
Top Toronto	3001	-1114
Top Douglas	3012	-1125

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Top Brown Lime	3075	-1188
Top Lansing-Kansas City	3090	-1203
Top Conglomerate	3338	-1451
Top Arbuckle	3351	-1464
Rotary total depth	3365	-1478

Douglas Section

3028-3038: White light grey fine grain micaceous sand, pieces light tan staining.

Lansing-Kansas City Section

3091-3098: White fine crystalline lime with vugular and oolicastic lime and light scattered staining.

DST #1 (S) 3078-3110. Open 30 minutes, weak blow 2 minutes. Flushed tool. Recovered 15' mud. BHP 575#, 20 minutes.

3178-3188: White light tan porous oolicastic lime. No odor. One or two pieces light scattered staining.

3194-3197: White tan porous oolicastic lime. No odor, no staining.

3258-3261: White chalky lime, trace porous oolicastic lime. No
3264-3266: odor, no staining.

Conglomerate Section

3338-3351: Red and grey shale with trace various colored chert and medium grain free sand and sand clusters; white buff sandy lime. Faint odor and fair show free oil in wet samples. Fair staining to light saturation in dry samples.

DST #2 (S) 3336-3349. Open 30 minutes, weak blow 4 minutes. Recovered 10' mud. BHP 0, 20 minutes.

Arbuckle Section

3351-3365 RTD: Medium to coarse crystalline dolomite with good intercrystalline and vugular porosity. Trace free oil and fair odor in wet samples. Pieces good staining to fair saturation in dry samples.

DST #3 (S) 3337-3355. Open 30 minutes, weak blow 12 minutes. Recovered 45' mud. BHP 315#, 20 minutes.

DST #4 (S) 3352-3360. Open 30 minutes, weak blow 15 minutes. Recovered 30' mud with small show of oil. BHP 840#, 20 minutes.

DST #5 (S) 3357-3365 RTD Open 1 hour, weak blow 35 minutes, weak intermittent blow 25 minutes. Recovered 40' oil-cut mud and 30' slightly oil-cut mud. BHP 820#, 30 minutes.

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Sample Analysis Report
#1 Finger

Elevation 1887 RB

Drillers: Piland, Lundblade, Shafer

Tool pusher: Clyde Merckle

Contractor: Lauck Drilling Company, Rig #2

Comm. Date: 6-17-56

Comp. Date: 6-27-56

8 5/8" casing 302 with 175 sacks cement

DAILY DRILLING PROGRESS AT 8 A.M.

6-17	RUR
6-18	302 WOC
6-19	1150
6-20	1840
6-21	2180
6-22	2625
6-23	2891
6-24	3110
6-25	3240
6-26	3349
6-27	3365

BIT RECORD

No.	Make	Type	From-To	Feet	Hours
#1	CP	EMI	302- 600	298	4
#2	CP	ES-2T	600-1495	895	15
#3	Reed	YSI	1495-1878	383	18½
#4	Hughes	OSC	1878-2190	312	19
#5	Hughes	OSC	2190-2625	435	20¼
#6	Hughes	OSC	2625-2891	266	21
#7	Hughes	OSC	2891-3110	219	21½
#8	CP	EMI-VS	3110-3252	142	19½
#9	Hughes	OSC	3252-3349	97	14½
#10	Hughes	OSC			

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