Arvada Oil Company Boomhower #5 C NE/4, Section 30-15S-13W Russell County, Kansas

FEB 1 2 1993

30-15-13W

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## Computer invantorled

5 1/2" PRODUCTION CASING SET

CONTRACTOR: Emphasis Oil Operations

COMMENCED: 10-31-92

COMPLETED: 11-6-92

ELEVATION: 1813' K.B., 1811' D.F., 1808' G.L.

CASING PROGRAM: Surface: 8 5/8" @ 791'

Production: 5 1/2" @ 3301'

MEASUREMENTS: All depths measured from the

Kelly Bushing.

DRILLING TIME: One (1) foot drilling time

recorded by geolograph, surface

to the R.T.D.

SAMPLES: Samples saved 2300° to the R.T.D.

ELECTRIC LOG: By Log-Tech, Radiation Guard Log.

FORMATION TESTING: There were two (2) drill stem tests run by Swift Formation Testers.

FORMATION	ELECTRIC LOG DEPTH	SUB-SEA DATUM
Anhydrite	780	+1033
Grand Haven	2345	-532
lst Tarkio Sand	2356	-543
Tarkio Lime	2417	-604
Elmont	2483	-670
Howard	<b>2620</b>	-807
Topeka	2691	-878
Heebner	2 <b>922</b>	-1109
Toronto	2940	-1127
Douglas	2954	-1141
Lansing	2988	-1175
Arbuckle	3248	-1438
Rotary Total Depth	3300	-1487
Electric Log Total Dept	h 3302	-1489

(All tops and zone determinations were correlated to the electric log engineer's measurements.)

## SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TARKIO SECTION 2356-2366

Sandstone, reddish brown, fine grain, micaceous and glauconitic, consolidated, slightly friable. No shows of oil.

 $\frac{\text{TOPEKA SECTION}}{2872-2875}$ 

Limestone, cream, finely crystalline, very chalky, suboocastic, poorly developed oocastic porosity, spotty brown stain. No free oil or odor in fresh samples.

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2887-2894

Limestone, buff to gray, finely crystalline, cherty, oocastic, poor to fair scattered oocastic porosity, fair scattered golden brown stain. No free oil and weak odor in fresh samples.

LANSING SECTION

2990-2992

Limestone, buff to light gray, cherty, slightly fossiliferous, trace of spotty vugular type porosity, trace of spotty stain. No free oil or odor in fresh samples.

3005-307

Limestone, buff, finely crystalline, colitic to fossilferous, trace of spotty fossilcast porosity, trace of spotty light stain, traces of bone white chert. No free oil and faint odor in fresh samples. (Perforate)

3010-3030

Limestone, tan to gray, finely crystalline, oocastic, good oocastic, good oocastic porosity, (75% barren) fair scattered light brown stain and saturation (upper part of zone) Fair show of free oil and fair odor in fresh samples. (Perforate)

DRILL STEM TEST #1 2990-3040

Open:

45" I.F. 45" F.F.

Blow:

Very good thru-out

Recovery:

300' of gas in the pipe 60' of oil and gas cut mud 120' of slightly oil cut watery mud. 420' of saltwater

3080-3083

Limestone, cream to buff, oolitic to slightly fossiliferous, cherty, blocky, trace of minor stain. No free oil or odor in fresh samples.

3090-3107

Limestone, white, finely crystalline, chalky, oocastic, fair oocastic porosity (barren) Abundant white chalk. No shows of oil.

3143-3146

Limestone, gray, oolitic to oocastic, poor to fair scattered oocastic porosity, cherty, fair scattered dark brown stain. Show of free oil (gassy) and weak odor in fresh samples. (Perforate)

3182-3187

Limestone, buff to gray, cherty, oocastic, fair oocastic porosity (mostly barren) trace of spotty stain. Very slight show to Hiteo oil and faint odor in Corposition COMMISSION samples.

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> DRILL STEM TEST #2 3133-3190

Open:

45" I.F. 45" F.F.

Blow:

Weak to fair (Intermittent)

Recovery:

60° of gas in pipe

60' of heavy oil and gas cut mud

Pressures:

ISIP 84 psi **FSIP** 84 psi 84-84 psi IFP 84-84 psi FFP 1629-1618 psi HSH

ARBUCKLE SECTION

3250-3256

Dolomite, gray, medium to coarse crystalline, good intercrystalline porosity, good scattered brown stain and saturation. Fair show of free oil and good odor in fresh

samples. (Perforate)

3257-3280

Dolomite, gray, medium to coarse crystalline, good intercrystalline to vuggy type porosity, trace of spotty stain. Show of free oil and weak odor in fresh samples.

3281-3302

Dolomite, as above. No shows of

## ROTARY TOTAL DEPTH 3300 (-1487) ELECTRIC LOG TOTAL DEPTH 3302 (-1489)

Recommendations: It was recommended that 5 1/2" production casing be set and cemented at 3301', one (1) foot off bottom, and the following zones to be tested.

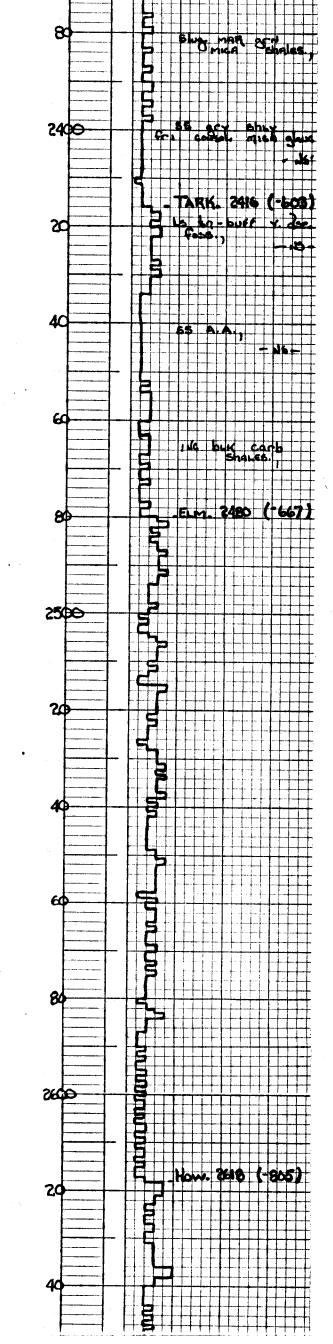
1.	Arbuckle	3250-3252	(Perforate)
2.	Lansing	3143-3146	(Perforate)
	-	3010-3013	(Perforate)
	•	3005-3007	(Perforate)

Respectfully Submitted,

Brad J. Hutchison

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