

10-5-18W

CLIFTON K. OTTAWAY
CONSULTING PETROLEUM GEOLOGIST
(913) 628-6900

PI

P.O. BOX 494

HAYS, KANSAS 67601

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GEOLOGIC REPORT

L & F Oil Operations Shaw #1

4290 FSL ~~1235' FNL~~ & 950' FEL NE/4 Sec. 10-5-18W

Phillips County, Kansas

Commenced: 5/10/85

Completed: 5/16/85

Pipe Record

8 5/8" @ 270 w/170 sks.

5 1/2" @ 3364' w/150 sks.

Anhydrite: 1366'-1395'

Drilled by: Emphasis Rig 2

ELEVATION 1909 K. B.

1904 G. L.

1907 D. F.

FORMATION DATA

(Corrected to R.A. Log)

<u>FORMATION</u>	<u>MINUS DATA</u>	<u>DEPTH</u>
TOPEKA	-928	2837
HEEBNER	-1131	3040
TORONTO	-1157	3066
Lansing-Kansas City	-1173	3082
BASE K. C.	-1398	3307
CONGLOMERATE	-1470	3379
ARBUCKLE	-1527	3436
R.T.D.	-1551	3460
L.T.D.	-1552	3461

CORES: None

Drill Stem Tests: Three, see below

Electric Log: Great Guns R.A. Guard Caliper

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FORMATION DESCRIPTION WICHITA BRANCH

CONSERVATION DIVISION
Wichita, Kansas

TOPEKA 2837-3039

This section consisted mostly of barren limestones and shale stringers. There were a couple of zones that had a show of oil and should be checked before abandoning the well; 2894-98 and 2998-3002.

TORONTO 3066-76

A trace of free oil and staining in a white to offwhite, fine crystalline, fossiliferous limestone with intercrystalline porosity. Log calculations 3066-68, 10% porosity and 35% water saturation. This should be tested later.

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L & F OIL OPERATIONS SHAW # 1
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LANSING-KANSAS CITY 3082-3307

A B Bench 3082-3111 A trace of free oil, staining and faint order in a white, fine crystalline, fossiliferous, slightly chalky limestone with intercrystalline and fossiliferous porosity. This was included in D.S.T. # 1 Log calculations (3082-86) 13% porosity and 38% water saturation. This should be checked later.

C Bench 3122-32 A trace light staining in a white fine to medium crystalline limestone with pin point vugular porosity.

D Bench 3140-52 A trace of free oil, staining and faint order in a white to tan, fine crystalline, fossiliferous, slightly chalky limestone. This was included in D.S.T. # 2 but looks tight on the log.

E F Bench 3157-76 A trace of free oil, staining and order in a white to offwhite, fine to medium crystalline, slightly oolitic, fossiliferous limestone with intercrystalline and pin point vugular porosity. This was also included in D.S.T. # 2. Log calculations (3161-65) 8½% porosity and 41% water saturation. This should be checked before abandoning well.

G Bench 3179-3202 A trace of free oil, staining and fair order in a white fine crystalline, fossiliferous, chalky limestone with intercrystalline porosity. The upper 10' of this was also included in D.S.T. # 2. This looks tight on the log.

Drill Stem Test No. 1 3040-3110

Recovered: 35' Mud w/oil on top of tool
Times: 60-30-30-30
IF: 92-92
FF: 114-114
ISIP: 742
FSIP: 666

Drill Stem Test Nl. 2 3130-3190

Recovered: 10' SOCM
Times: 60-30-30-30
IF: 74-74
FF: 74-74
ISIP: 570
FSIP: 349

H Bench 3214-29 A trace of light staining in a white to light gray fine crystalline, cherty, slightly chalky, fossiliferous limestone with intercrystalline porosity. This was included in D.S.T. # 3 and looks tight on the log.

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I Bench 3238-46 Minor free oil, staining and fair order in a white to offwhite fine crystalline, fossiliferous, slightly oolitic limestone with intercrystalline and fossiliferous porosity. This was included in D.S.T. #3 Log calculations (3237-40) 10% porosity and 35% water saturation. This should be perforated and tested.

J Bench 3254-66 A trace of free oil, staining and faint order in a white to offwhite, fine to medium crystalline, fossiliferous limestone with intercrystalline and fossiliferous porosity. This was included in D.S.T. #3. Log calculations (3257-59) 9½% porosity and 36% water saturation. This should be perforated and tested.

Drill Stem Test #3. 3200-3270

Recovered: 120' GIP, . 220' Gasy Oil, 120' Gasy Muddy Oil (30% Gas 60% oil 10% Mud), 120' Heavy Gasy Muddy Oil (15% Gas 60% Oil 20% Mud 5% water)

Times: 30-45-30-45

IF: 114-171

FF: 193-227

ISIP: 1139

FSIP: 1096

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K Bench 3289-91 There was no show in this section.

L Bench: 3300-07 A trace of free oil, staining and very faint order in a white to offwhite, fine crystalline, highly chalky, fossiliferous limestone with intercrystalline porosity. This looks tight on the log.

Conglomerate: 3379-3430 There were no shows in this section.

Arbuckle: 3436-TD There were no show in a white to tan fine crystalline tight sucrosic dolomite.

RECOMMENDATIONS

It was recommended and confirmed by all parties concerned to set pipe and further test this well. The zones that should be checked are so noted in the above descriptions.

Respectfully submitted,

C.K. Ottaway

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