

COPY

Clifton K. Ottaway
CONSULTING PETROLEUM GEOLOGIST
 (913) 628-6900
 P. O. BOX 494 HAYS, KANSAS 67601

GEOLOGIC REPORT

HOFFMAN PETROLEUM INC.
 MC CAULEY NO. 1
 SW-SE-SE Sec. 4-11-19
 Ellis. County, Kansas
 Commenced: 6-3-93
 Completed: 6-9-93

PIPE RECORD
 8 5/8" @ 207' W/ 135 SK
 D & A Conglomerate
 Anhydrite: 1420-1458
 Drilled by: Vonfeldt
 Drilling Rig 1

ELEVATION 2100 K.B.
 2095 G. L. 2098 D. F.

FORMATION DATA
CORRECTED TO RA LOG

FORMATION	MINUS DATA	DEPTH
Topeka	-969	3069
Heebner.....	-1186	3286
Toronto	-1210	3310
Lansing-Kansas City.....	-1228	3328
Base Kansas City.....	-1448	3548
Marmaton	-1490	3590
Conglomerate.....	-1512	3612
RTD	-1600	3700
LTD	-1599	3699

Cores: None
 Drill Stem Tests: Three, see below
 Electric Logs: Mercury Wireline R. A. Guard Log

FORMATION DESCRIPTIONS

Topeka: 3096-3285

This section consisted mostly of barren limestones and vari-colored shale stringers.

Toronto: 3310-3320

There were no oil shows in this section.

Lansing-Kansas City: 3328-3548

A-B Bench: 3328-3353 There were no oil shows in this section

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C Bench: 3363-3375 There was a trace of free oil and staining in a white to off-white, fine crystalline, limestone with intercrystalline porosity. The log shows this to be tight and the drill stem test results confirm that.

D Bench: 3382-3396 A slight show of free oil and light staining and a faint odor in a white to tan, fine to medium crystalline limestone with intercrystalline and pin point vugular porosity. This was also tight as confirmed by drill stem test number 1.

DRILL STEM TEST NO. 1 3350-3400

Recovery: 30' mud
 Times: 30-30-30-30
 IF: 25-25
 FF: 30-35
 ISIP: 960
 FSIP: 907

E-F Bench: 3404-3419 A trace if free oil and light to dark saturated staining in a white to off-white, fine, crystalline limestone with intercrystalline porosity. This was included in DST. No. 2.

G Bench 3421-3448 There were no oil shows in this section of white chalky, cherty limestone.

DRILL STEM TEST NO. 2 3395-3430

Recovery: 50" mud
 Times: 45-45-30-45
 IF: 40-40
 FF: 45-45
 ISIP: 795
 FSIP: 795

H Bench: 3462-3476 There was a trace of light staining in a white, fine to medium crystalline, slightly oolitic limestone.

I-J Bench: 3480-3510 A trace of free oil and staining and faint odor in a white to tan, fine to medium crystalline limestone with intercrystalline and fossiliferous porosity.

K Bench: 3515-3534 A slight show of free oil, light to dark staining, and faint odor in a white fine crystalline, fossiliferous limestone with intercrystalline porosity. This was included in DST. No. 3.

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DRILL STEM TEST NO. 3 3476-3529

Recovery: 25' mud
Times: 30-30-30-30
IF: 39-39
FF: 39-39
ISIP: 768
FSIP: 620

L Bench: 3538-3548 A trace of free oil and light staining and faint odor in a white to tan, fine to medium crystalline, slightly oolitic limestone with intercrystalline porosity.

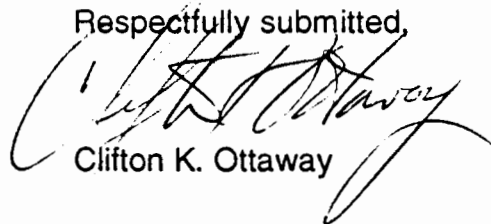
Marmaton: 3590-3605 A trace of free oil and staining, scattered shows of asphaltic and tarry residue in a white to cream, vari-colored slightly oolitic cherty limestone with intercrystalline porosity. This looks wet on the log.

Conglomerate: 3612-TD. There were no oil shows in this section.

RECOMMENDATIONS

Structurally the Lansing-Kansas City top on this well was between some old producers in the area. The lack of good porosity development was the cause of no recovery on the drill stem tests. Based on the log and the negative drill stem test results, it was recommended to plug and abandon this well.

Respectfully submitted,



Clifton K. Ottaway

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CONSERVATION DIVISION
Topeka, Kansas

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 5749

Well Name & No. MC CAULEY #1 Test No. 1 Date 6-7-93
 Company HOFFMAN POT ING Zone Tested LKC
 Address 1600 BROADWAY ST. INDEPENDENCE CO. 64202 Elevation 2095
 Co. Rep./Geo. CLIFF OTTAWAY Cont. VONFELDT RIG 1 Est. Ft. of Pay 2095
 Location: Sec. 4 Twp. 11S Rge. 19W Co. ELLIS State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3350-3400 Drill Pipe Size 4 1/2 XH
 Anchor Length 50 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Packer Depth 3345 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3350 Wt. Pipe I.D. — 2.7 Ft. Run 0
 Total Depth 3400 Drill Collar — 2.25 Ft. Run 0
 1 Wt. 9.9 lb/gal. Viscosity 49 Filtrate 10.8
 Tool Open @ _____ Initial Blow HIT BRIDGE 300 FT OFF BTM CAME BACK OUT TO CLEAN HOLE
 Final Blow _____

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?				
Rec. _____	Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____	
Rec. _____	Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____	
Rec. _____	Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____	
Rec. _____	Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____	
Rec. _____	Feet Of _____	%gas _____	%oil _____	%water _____	%mud _____	

BHT 103 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 P _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 22150 Range 3925
 (B) First Initial Flow Pressure _____ PSI @ (depth) 3353 w/Clock No. 31154
 (C) First Final Flow Pressure _____ PSI AK1 Recorder No. 11058 Range 4500
 (D) Initial Shut-In Pressure _____ PSI @ (depth) 3397 w/Clock No. 25814
 (E) Second Initial Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure _____ PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure _____ PSI Initial Opening _____ Test MISRUN
 (H) Final Hydrostatic Mud _____ PSI Initial Shut-In _____ Jars _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By _____

Our Representative [Signature]

Safety Joint _____
 Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____

JUL 12 1993

CONCRETE DIVISION

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

86905

Test Ticket

PK 6/7/93
CK. 10.2627

112 5750

Well Name & No. <u>MCSAULEY #1</u>	Test No. <u>2</u>	Date <u>6-7-93</u>
Company <u>HOFFMAN PET INC</u>	Zone Tested <u>LKC</u>	
Address <u>1600 BROADWAY STE 1710 DAWSON CO</u>	Elevation _____	
Co. Rep./Geo. <u>CLIFF OTTOWAY</u>	Cont. <u>VONFELDT RIG 1</u>	Est. Ft. of Pay _____
Location: Sec. <u>4</u> Twp. <u>11S</u> Rge. <u>19W</u>	Co. <u>ELLIS</u> State <u>KS</u>	
No. of Copies _____	Distribution Sheet _____	Yes ☐ No ☒ Turnkey _____
	Yes ☐ No ☒ Evaluation _____	

Interval Tested <u>3350 - 3400</u>	Drill Pipe Size <u>4 1/2 XH</u>
Anchor Length <u>50 FT</u>	Top Choke — 1" Bottom Choke — 1/4"
Top Packer Depth <u>3345</u>	Hole Size — 7 7/8" Rubber Size — 6 3/4"
Bottom Packer Depth <u>3350</u>	Wt. Pipe I.D. — 2.7 Ft. Run <u>8</u>
Total Depth <u>3400</u>	Drill Collar — 2.25 Ft. Run <u>8</u>
Mud Wt. <u>9.9</u> lb / gal.	Viscosity <u>49</u> Filtrate <u>10.8</u>
Tool Open @ <u>2:40 P.M.</u> Initial Blow <u>WEAK BLOW DEAD IN 5 MINUTES</u>	

Final Blow NO BLOW - FLUSHED TOOL RECEIVING WEAK BLOW THEN DEAD

Recovery — Total Feet <u>30</u>	Feet of Gas in Pipe _____	Flush Tool? <u>YES</u>
Rec. <u>30</u> Feet Of <u>DRILLING MUD</u>	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	
Rec. _____ Feet Of _____	%gas _____ %oil _____ %water _____ %mud _____	

BHT <u>103'</u> °F Gravity _____	°API @ _____	°F Corrected Gravity _____	°API _____
RW _____ @ _____ °F	Chlorides _____ ppm Recovery _____	Chlorides _____ ppm System _____	
(A) Initial Hydrostatic Mud <u>2143</u> PSI	Ak1 Recorder No. <u>ROC # 2210</u>	Range <u>3925</u>	
(B) First Initial Flow Pressure <u>25</u> PSI	@ (depth) <u>3353</u>	w/Clock No. <u>31154</u>	
(C) First Final Flow Pressure <u>25</u> PSI	Ak1 Recorder No. <u>ROC # 11052</u>	Range <u>4500</u>	
(D) Initial Shut-In Pressure <u>960</u> PSI	@ (depth) <u>3397</u>	w/Clock No. <u>25814</u>	
(E) Second Initial Flow Pressure <u>30</u> PSI	Ak1 Recorder No. _____	Range _____	
(F) Second Final Flow Pressure <u>35</u> PSI	@ (depth) _____	w/Clock No. _____	
(G) Final Shut-In Pressure <u>907</u> PSI	Initial Opening <u>30</u>	Test <u>✓</u>	
(H) Final Hydrostatic Mud <u>2087</u> PSI	Initial Shut-In <u>30</u>	Jars _____	

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Final Flow <u>30</u>	Safety Joint _____
Final Shut-In <u>30</u>	Straddle _____
	Circ. Sub <u>RECEIVED</u>
	Sampler _____
	Extra Packer <u>JUL 19 1993</u>
	Other _____
TOTAL PRICE \$ _____	

Approved By _____

Our Representative John Suell

Printcraft Printers - Hays, KS

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

102627- Pd. 6/8/93
CH# 2628 No. 6001

Well Name & No. MCCAULEY #1 Test No. 2 Date 6-8-93
 Company HOFFMAN PET INC Zone Tested LKC E.F.
 Address 1600 DRAWDOWN ST 1710 DENVER CO. 80202 Elevation _____
 Co. Rep./Geo. CLIFF OTTAWAY Cont. VONFELD R161 Est. Ft. of Pay _____
 Location: Sec. 4 Twp. 11S Rge. 19W Co. ELLIS State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ ☒ Turnkey _____ Yes _____ ☒ NO Evaluation

Interval Tested 3395-3430 Drill Pipe Size 4 1/2 IH
 Anchor Length 35 FT Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 3390 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 3395 Wt. Pipe f.d. — 2.7 Ft. Run 0
 Total Depth 3430 Drill Collar — 2.25 Ft. Run 0
 Mud Wt. 9.8 lb / gal. Viscosity 4S Filtrate 15
 Tool Open @ 2:40 A.M. Initial Blow WEAK BLOW - STEADY 6"

Final Blow WEAK BLOW - STEADY 4"

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
<u>50</u>		<u>NO</u>
Rec. <u>50</u> Feet Of <u>DRILLING MUD</u>	%gas %oil %water %mud	
Rec. _____ Feet Of _____	%gas %oil %water %mud	
Rec. _____ Feet Of _____	%gas %oil %water %mud	
Rec. _____ Feet Of _____	%gas %oil %water %mud	
Rec. _____ Feet Of _____	%gas %oil %water %mud	

BHT 105 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System
 (A) Initial Hydrostatic Mud 1770 PSI AK1 Recorder No. 22150 Range 3925
 (B) First Initial Flow Pressure 40 PSI @ (depth) 3400 w/Clock No. 31154
 (C) First Final Flow Pressure 40 PSI AK1 Recorder No. 11058 Range 4500
 (D) Initial Shut-In Pressure 79S PSI @ (depth) 3427 w/Clock No. 25814
 (E) Second Initial Flow Pressure 4S PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 4S PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 79S PSI Initial Opening 4S Test ☒
 (H) Final Hydrostatic Mud 1750 PSI Initial Shut-In 4S Jars _____

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Final Flow 30 Safety Joint _____
 Final Shut-In 4S Straddle _____

Approved By _____

Our Representative John Seal

Printcraft Printers • Hays, KS

Sampler _____

Extra Packer _____

Other _____

TOTAL PRICE \$ _____

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JUL 19 1993
CONSERVATION DIVISION
Wichita, Kansas

Test Ticket

112 5600

Well Name & No. <u>Mc Cauley #1</u>	Test No. <u>4</u>	Date <u>6-8-93</u>
Company <u>Hoffman Petro. Inc</u>	Zone Tested <u>I-J-K</u>	<u>L.L.C.</u>
Address <u>1600 Broadway, Denver, Co. 80202</u>	Elevation _____	
Co. Rep./Geo. <u>Cliff OT</u>	Cont. <u>Konfeldt #1</u>	Est. Ft. of Pay _____
Location: Sec. <u>4</u>	Twp. <u>11</u>	Rge. <u>19</u>
Co. <u>Ellis</u>	State <u>Ks.</u>	
No. of Copies _____	Distribution Sheet _____	Yes _____ No _____ Turnkey _____
Yes _____	No _____	Evaluation _____

Interval Tested 3476 - 3529 Drill Pipe Size 4.5 X 14
 Anchor Length 53 Top Choke — 1" Bottom Choke — 1/4"
 Top Packer Depth 3471 Hole Size — 77/8" Rubber Size — 63/4"
 Bottom Packer Depth 3476 Wt. Pipe I.D. — 2.7 Ft. Run
 Total Depth 3529 Drill Collar — 2.25 Ft. Run
 Mud Wt. 10.2 lb / gal. Viscosity 44 Filtrate 11.2
 Tool Open @ 5:50 p.m. Initial Blow weak - Died in 23 min.

Final Blow No blow.

Recovery — Total Feet	Feet of Gas In Pipe	Flush Tool?
Rec. <u>25</u> Feet Of <u>D.M.</u>	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil
Rec. _____ Feet Of _____	%gas	%oil

BHT 106 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 2046 PSI AK1 Recorder No. 13754 Range 4000
 (B) First Initial Flow Pressure 39 PSI @ (depth) 3480 w/Clock No. 27501
 (C) First Final Flow Pressure 39 PSI AK1 Recorder No. 7437 Range 4200
 (D) Initial Shut-in Pressure 768 PSI @ (depth) 3525 w/Clock No. 27567
 (E) Second Initial Flow Pressure 39 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 39 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 620 PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud 1966 PSI Initial Shut-in 30 Jars _____

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Approved By _____

Our Representative Don Bangle

Printcraft Printers - Hays, KS

Final Flow 30 Safety Joint _____

Final Shut-in 30 Straddle _____

Circ. Sub RECEIVED

Sampler DATE COMPLETED

Extra Packer JUL 19 1993

Other _____

TOTAL PRICE \$ _____