

ORIGINAL

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 3321

Name: Hoffman Petroleum, Inc.

Address 110 16th Street
Suite 650

City/State/Zip Denver, CO 80202

Purchaser: _____

Operator Contact Person: Myrle Hoffman

Phone (303) 534-1100

Contractor: Name: Red Tiger Drilling

License: 5302

Wellsite Geologist: Clifton K. Ottaway

Designate Type of Completion

New Well Re-Entry Workover

Oil SMD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

11-22-89 11-30-89

Spud Date 11-22-89 Date Reached TD 11-30-89 Completion Date _____

API NO. 15-051-24,626-00-00

County Ellis

SW 1 NE 1 SE 1 Sec. 36 Twp. 13 Rge. 20W East West

1832 Ft. North from Southeast Corner of Section

938 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name Ernest Pfeifer Well # D-2

Field Name Irvin

Producing Formation _____

Elevation: Ground 2245 KB 2250

Total Depth 3970 PBTD _____

STATE CORPORATION COMMISSION

RECEIVED

JUL 11 1990

CONSERVATION DIVISION
Wichita, Kansas

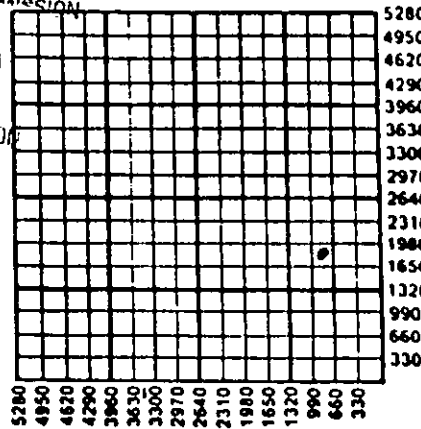
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MAR 29 1990

CONSERVATION DIVISION
Wichita, Kansas

MAR 29 1990

CONSERVATION DIVISION
Wichita, Kansas



8-17-90

Amount of Surface Pipe Set and Cemented at 257 Feet

Multiple Stage Cementing Collar Used? Yes No

Cemented from bottom to top.

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 0

feet depth to 3820 w/ 425 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of all wireline logs and drillers time log shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Myrle Hoffman

Title President Date 3/27/90

Subscribed and sworn to before me this 27th day of March, 19 90.

Notary Public Carol Ann Hoffman

Date Commission Expires May 17, 1993

K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached

Wireline Log Received

Drillers Timelog Received

Distribution

KCC SMD/Rep NGPA

KGS Plug Other

(Specify)

SIDE TWO

Operator Name Hoffman Petroleum, Inc. Lease Name Ernest Pfeifer Well # D-2

Sec. 36 Twp. 13 Rge. 20W East West
 County Ellis

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.)	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Formation Description</th> </tr> <tr> <th style="width:30%;"></th> <th style="width:15%; text-align: center;"><input checked="" type="checkbox"/> Log</th> <th style="width:15%; text-align: center;"><input type="checkbox"/> Sample</th> <th style="width:30%;"></th> </tr> <tr> <th style="text-align: left;">Name</th> <th style="text-align: center;">Top</th> <th style="text-align: center;">Bottom</th> <th></th> </tr> </thead> <tbody> <tr> <td>Topeka</td> <td style="text-align: center;">3264</td> <td style="text-align: center;">3506</td> <td style="text-align: center;">(-1014)</td> </tr> <tr> <td>Heebner</td> <td style="text-align: center;">3507</td> <td></td> <td style="text-align: center;">(-1257)</td> </tr> <tr> <td>Toronto</td> <td style="text-align: center;">3528</td> <td style="text-align: center;">3540</td> <td style="text-align: center;">(-1278)</td> </tr> <tr> <td>Lansing-K.C.</td> <td style="text-align: center;">3547</td> <td style="text-align: center;">3790</td> <td style="text-align: center;">(-1297)</td> </tr> <tr> <td>Base LKC</td> <td></td> <td style="text-align: center;">3790</td> <td style="text-align: center;">(-1540)</td> </tr> <tr> <td>Marmaton</td> <td style="text-align: center;">3838</td> <td style="text-align: center;">3866</td> <td style="text-align: center;">(-1588)</td> </tr> <tr> <td>Arbuckle</td> <td style="text-align: center;">3882</td> <td style="text-align: center;">3970</td> <td style="text-align: center;">(-1632)</td> </tr> <tr> <td>RTD</td> <td></td> <td style="text-align: center;">3970</td> <td style="text-align: center;">(-1720)</td> </tr> <tr> <td>LTD</td> <td></td> <td style="text-align: center;">3965</td> <td style="text-align: center;">(-1716)</td> </tr> </tbody> </table>	Formation Description					<input checked="" type="checkbox"/> Log	<input type="checkbox"/> Sample		Name	Top	Bottom		Topeka	3264	3506	(-1014)	Heebner	3507		(-1257)	Toronto	3528	3540	(-1278)	Lansing-K.C.	3547	3790	(-1297)	Base LKC		3790	(-1540)	Marmaton	3838	3866	(-1588)	Arbuckle	3882	3970	(-1632)	RTD		3970	(-1720)	LTD		3965	(-1716)
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CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
surface	12 1/2	8 5/8	28#	257	60/40 poz	160	2% gel, 3% cc
production	7 7/8	5 1/2	14#	3964	60/40 poz	325	10% gel
					60/40 poz	150	10% salt, 5% gilsanite
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth			
Shots Per Foot	Specify Footage of Each Interval Perforated						
4	3883-89'			500 gal. 15% maude acid			
				100 sacks - standard cement			
				38 pounds Halad-9			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Size		Set At		Packer At			
Not on production - had to squeeze.							
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio			Gravity
	Not applicable (all water, had to squeeze)						

Disposition of Gas: Vented Sold Used on Lease (if vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled

Other (Specify) _____

Production Interval _____

SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
RECOMPLETION FORM
ACO-2 AMENDMENT TO WELL HISTORY

Operator: License # 03321
Name: Hoffman Petroleum, Inc.
Address: 110 16th St., Suite 650
City/State/Zip: Denver, CO 80202
Purchaser: N.C.R.A.
Operator Contact Person: Myrle F. Hoffman
Phone: (303) 534-1100

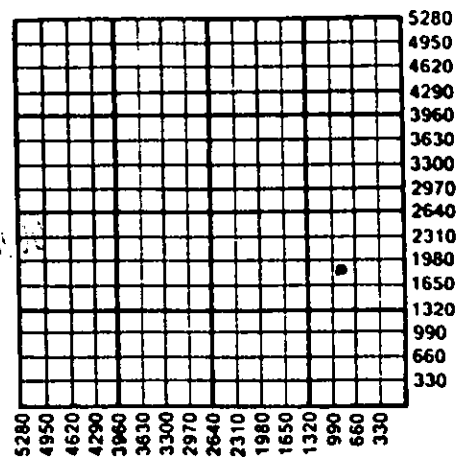
Designate Type of Original Completion
 New Well Re-Entry Workover
Date of Original Completion 4/19/90
Name of Original Operator Hoffman Petroleum, Inc.

Original Well Name Pfeifer D-2
A continuation of the original completion
Date of Recompletion: 5-7-90 which was not finalized in
time for the 120-day requirement.
Commenced Completed 4/19/90

Re-entry Workover A continuation because
we had to squeeze to shut off water.
Designate Type of Recompletion/Workover:
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)
 Deepening Re-perforation & slotting after
 Plug Back PBTD squeeze job.
 Conversion to Injection/Disposal

Is recompleted production:
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (Disposal or Injection?)
Docket No. _____

API NO. 15- 051-24,626-00-00
County Ellis
SW NE SE Sec. 36 Twp. 13 Rge. 20 East West
1832 Ft. North from Southeast Corner of Section
938 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name Ernest Pfeifer Well # D-2
Field Name Irvin
Producing Formation Arbuckle
Elevation: Ground 2245 KB 2250



K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the recompletion of any well. Rules 82-3-107 and 82-3-141 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months. One copy of any additional wireline logs and driller's time logs (not previously submitted) shall be attached with this form. Submit ACO-4 or ACO-5 prior to or with this form for approval of commingling or dual completions. Submit CP-1 with all plugged wells. Submit CP-111 with all temporarily abandoned wells. NOTE: Conversion of wells to either disposal or injection must receive approval before use; submit form U-1.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Myrle F. Hoffman Title President Date 5/4/90
Subscribed and sworn to before me this 4th day of May 19 90
Notary Public Carol Ann Hoffman Date Commission Expires May 17, 1993

ORIGINAL

SIDE TWO

Operator Name Hoffman Petroleum, Inc. Lease Name Ernest Pfeifer Well # D-2
 Sec. 36 Twp. 13 Rge. 20 East West County Ellis

RECOMPLETION FORMATION DESCRIPTION

Log Sample

Name _____ Top _____ Bottom _____

(See ACO-1)

ADDITIONAL CEMENTING/SQUEEZE RECORD					
Purpose:	Depth Top	Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone <input checked="" type="checkbox"/> To shut off water.	3383	3916	Standard	100	38 lb. of Halad-9 blended
					(Actual sacks of cement into formation was
					between 35 and 40.)

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)
4	3883 - 3889	Squeezed - see above
2	3914 - 3916	" "
4	Slotted with nitrogen 3883-87	250 gals. SWIC acid 15%
4	3883-88 with expendable gun)	250 gals. FE acid - 15%
4	3883-88 with expendable gun)	
4	3883-88 with expendable gun	250 gals. Hydrochloric acid - 15%

PBTD _____ Plug Type _____

TUBING RECORD

Size 2-7/8 Set At 3895' Packer At _____ Was Liner Run _____ Y N
 Date of Resumed Production, Disposal or Injection 4/19/90
 Estimated Production Per 24 Hours Oil 10 Bbls. Water 65 Bbls. Gas-Oil-Ratio _____
 Gas _____ Mcf

Disposition of Gas:

Vented Sold Used on Lease (If vented, submit ACO-18.)

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ORIGINAL
Page 2

Hoffman Pet. Co. Pfeifer D-2
SW NE SE Sec 36-13-20
Ellis County, Kansas

LANSING-KANSAS CITY: 3547-3790

A, B Bench: 3547-3568 A trace of staining in a white fine crystalline dense, chalky, cherty, limestone with poor intercrystalline porosity.

C Bench: 3575-3591 A trace of dark staining in a white to off-white, fine to medium crystalline, chalky limestone with intercrystalline and pin point vuggy porosity. Log calculations (3580-3584) show this section to have 11% porosity and 61% water saturation. This should be checked before abandoning well.

D Bench: 3586-3612 A trace of dark asphaltic staining and faint odor in an off-white to tan, fine to medium crystalline, fossiliferous, slightly chalky limestone.

E, F, G Benches: 3615-3670 There was a slight show of tarry staining and asphaltic residue in the white to tan, fine crystalline, fossiliferous, chalky limestone with tight intercrystalline and fossiliferous porosity.

H Bench: 3680-3696 Scattered staining and faint odor in a tan fine crystalline, fossiliferous limestone with intercrystalline porosity. There was no free oil. Log calculations (3682-3686) show this to have 9% porosity and 41% water saturation. This should be tested at a later date.

I Bench: 3703-3724 A trace of free oil and light to dark saturated staining in a white fine crystalline, friable, fossiliferous limestone with intercrystalline porosity. This was included in Drill Stem Test No 1.

J Bench: 3727-3747 Free oil, scattered staining and fair odor in a white to off-white fine to medium crystalline, fossiliferous, slightly polytic limestone with intercrystalline and vuggy porosity. This was also included in drill stem test No. 1.

DRILL STEM TEST NO 1: 3698-3743

Recovery:	10' Mud with oil spots	RECEIVED STATE CORPORATION COMMISSION MAR 29 1990 CONSERVATION DIVISION Wichita, Kansas
Times:	30-45-30-45	
IF:	42-42	
FF:	42-52	
ISIP:	52	
FSIP:	63	

ORIGINAL

Hoffman Pet. Co. Pfeifer D-2
SW NE SE Sec 36-13-20
Ellis County, Kansas

Page 3

K_Bench: 3757-3770 A trace of tarry residue and asphaltic staining in a tight fine crystalline limestone.

L_Bench: 3773-3790 There were no oil shows in this section.

MARMATCH: 3838-3866 There was a trace of asphaltic staining and residue in this section of vari-colored cherts and fine crystalline limestones.

Arbuckle: 3882-TD The upper 10 feet of this section was a reworked sandy, oolitic, cherty dolomite with a good show of free oil, strong odor and staining in good intercrystalline and vuggy porosity. The upper 8 feet were included in drill stem test No. 2. Log calculations (3882-3888) show porosity from 14% to 22% and water saturation from 43% to 45%. This should be perforated and tested.

DRILL STEM TEST NO 2:

Recovery: 240' GIP, 270' GFD, 300' HQCM
Times: 45-30-45-45
IF: 63-137
FF: 190-243
ISIP: 1100
FSIP: 1121

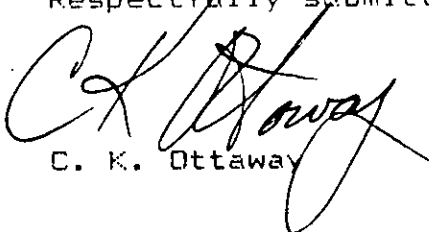
3886-3900 This consisted of off-white to tan, fine crystalline dolomite with a trace of staining and faint odor. This had tight pin point porosity.

3920-TD This was white fine crystalline, slightly cherty dolomite with poor intercrystalline barren porosity.

RECOMMENDATIONS

Based on the results of drill stem test no. 2 and the structural position of this well, it was recommended to set pipe and further test this well.

Respectfully submitted


C. K. Ottaway

RECEIVED
STATE CORPORATION

MAR 29 1990

CONSERVATION DIVISION
Wichita, Kansas

Phone 913-483-2627, Russell, Kansas:
 Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. N^o 8627

Home Office P. O. Box 31 Russell, Kansas 67465

new

15:05:24626:00:00

Date	11-22-89	Sec.	36	Twp.	13	Range	20	Called Out	1:00 P.M.	On Location	2:30 P.M.	Job Start	3:45 P.M.	Finish	4:15
Case	PFEIFER	Well No.	D2	Location	ELLIS	AE	3S	County	ELLIS	State	KANSAS				

Contractor	Red Tiger	Rig #	4
Type Job	SURFACE		
Log Size	12 1/4	T.D.	258
Log	8 5/8	Depth	257
Log Size		Depth	
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.	15	Shoe Joint	
Press Max.		Minimum	
Meas Line		Displace	X
Perf.			

Owner	SAME
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Charge To	Hoffman Det Co.
Street	110 16 th St, #650
City	Denver State Co 80202
The above was done to satisfaction and supervision of owner agent or contractor.	

Purchase Order No.
 X *David J. Wonder*
CEMENT

EQUIPMENT

Pumper	No. 177	Cementor	B. Davis
		Helper	GEN
Pumper	No.	Cementor	
		Helper	
Bulktrk	156	Driver	Mark
Bulktrk		Driver	

Amount Ordered	160 SKs 60/40	3900
Consisting of		2905
Common	96 SKs @ 5.100	480
Poz. Mix	64 SKs @ 2.25	144
Gel.	3 SKs @ 6.75	20.25
Chloride	5 SKs @ 20.00	100
Quickset		

DEPTH of Job	
Reference:	#1
	3600.00
	40.00
	16.00
Sub Total	
Tax	
Total	416.00

Handling	904	144.00
Mileage	34	76.00

RECEIVED
 STATE CORPORATION COMMISSION
 JUL 11 1990
 Total 965.00
 Floating Equipment CONSERVATION DIVISION
 Wichita, Kansas

Remarks:
CEMENT
Q.L.R.

THANKS

Phone 913-483-2627, Russell, Kans
 Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. NO 7856

Home Office P. O. Box 31

Russell, Kansas 67665

New

15-051-24626-00-00

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
12-1-89	36	13	20	5:45 AM	8:00 AM	11:00 A.M.	12:15
Lease Ernest Pfeifer	Well No. D-2	Location Elka 45-35-winto		County Elka	State KS		

Contractor <i>Red Tiger</i>	Owner <i>Same</i>
Type Job <i>P. Casing</i>	To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Hole Size <i>7 3/4"</i>	T.D. <i>3965'</i>
Csg. <i>5 1/2"</i>	Depth <i>3970'</i>
Tbg. Size	Depth
Drill Pipe	Depth
Tool	Depth
Cement Left in Csg.	Shoe Joint <i>21'</i>
Press Max. <i>1200#</i>	Minimum
Meas Line <i>3960'</i>	Displace <i>96 BBL.</i>
Perf. <i>Plug at 3940-3943'</i>	

Charge To <i>Hoffman Petroleum</i>
Street <i>110 16th Suite #650</i>
City <i>Denver</i> State <i>Colo. 80.</i>
The above was done to satisfaction and supervision of owner agent or contractor
Purchase Order No.
<i>Myrtle S. Hoffman</i>
CEMENT

EQUIPMENT

No.	Cementer	Helper
Pumptrk. <i>158</i>	<i>Mike</i>	<i>Duane</i>
No.	Cementer	Helper
Pumptrk.		
	Driver	
Bulktrk. <i>199</i>	<i>Rino</i>	
Bulktrk.	<i>Mike H.</i>	

Amount Ordered <i>32560/40 107ozel</i>		
Consisting of <i>15060/40 107oz Salt-57gals/ml</i>		
Common <i>285</i>	<i>5.00</i>	<i>1425.</i>
Poz. Mix <i>190</i>	<i>2.25</i>	<i>427.</i>
Gel. <i>32</i>	<i>6.75</i>	<i>216.0</i>
Chloride		
Quicksat <i>G. Lsonite 750</i>	<i>.29</i>	<i>217.5</i>
<i>Salt-15</i>	<i>4.75</i>	<i>71.25</i>
Sales Tax		
Handling <i>475</i>	<i>.90</i>	<i>427.5</i>
Mileage <i>12</i>		<i>171.6</i>

DEPTH of Job

Reference:		
	<i>Pump Life Chg</i>	<i>838.00</i>
	<i>Hand Job Mileage</i>	<i>12.00</i>
	<i>5 1/2" Reelover Plug</i>	<i>43.00</i>
	Sub Total	
	Tax	
	Total	<i>893.00</i>

TOTAL \$4818.75
 Disc - *463.75*
 \$3855.00
 RECEIVED
 STATE CORPORATIONS COMMISSION
 JUL 11 1990
 2955.

Remarks: *Cement Dec. calculate*
Shost Dec. held

1-5 1/2" Guide Shoe	<i>180.00</i>
1-5 1/2" Grant	<i>180.00</i>
7-5 1/2" Cent.	<i>308.00</i>
3-5 1/2" Buckets	<i>363.00</i>
	<i>970.00</i>

Thank you