

051-24,537-0000

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

Operator: License # 5252  
Name R P NIXON OPERATIONS  
Address 207 W 12TH  
HAYS KS 67601  
City/State/Zip

Purchaser CLEAR CREEK INC  
WICHITA KS

Operator Contact Person DAN A NIXON  
Phone 913-628-3834

Contractor: License # 5655  
Name SHIELDS DRILLING CO INC

Wellsite Geologist DAN A NIXON  
Phone 913-628-3834

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)

If OWVO: old well info as follows:  
Operator  
Well Name  
Comp. Date  
Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
12-1-87 12-7-87 1-8-88  
Spud Date Date Reached TD Completion Date  
3500' 3477  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 201 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 1121 feet  
If alternate 2 completion, cement circulated from 1121 feet depth to SURF 300 SX cmt  
Cement Company Name B-J TITAN  
Invoice # NP018

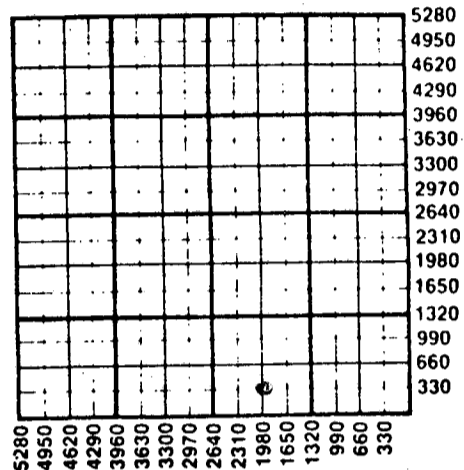
API NO. 15-  
County ELLIS  
C-S/2 SW SE 3 13 16 East  
Sec. Twp. Rge.  West

330 Ft North from Southeast Corner of Section  
1980 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Lease Name OTTILIA Well # 4  
Field Name EMMERAM  
Producing Formation LANSING

Elevation: Ground 1978 KB 1983

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
Docket #  Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

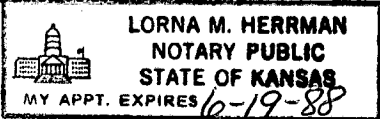
Source of Water:  
Division of Water Resources Permit #  
 Groundwater.....Ft North from Southeast Corner  
(Well) .....Ft West from Southeast Corner of  
Sec Twp Rge East West  
 Surface Water.....Ft North from Southeast Corner  
(Stream, pond etc).....Ft West from Southeast Corner  
Sec Twp Rge East West  
 Other (explain).....  
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 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. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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 *D. Nixon*  
Title OWNER Date 2-23-88

Subscribed and sworn to before me this 23RD day of FEBRUARY 1988  
Notary Public Lorna M. Herriman  
Date Commission Expires 6-19-88



K.C.C. OFFICE USE ONLY  
F Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Drillers Timelog Received  
Distribution  
SWD/Rep NGPA  
Plug Other  
(Specify)  
MAR 6 1988

Sec. 5 Twp. 13 Rge. 16 W

Operator Name **R P NIXON OPERATIONS** Lease Name **OTTILIA** Well # **4**  
 C-S/2 SW SE  
 Sec. **3** Twp. **13S** Rge. **16**  East  West County **ELLIS**

WELL LOG

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  Yes  No  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

Name	Top	Bottom
ANHYDRITE TOP (DRLRS)	1106'	
ANHYDRITE BASE "	1142	
TOPEKA	2928	
HEEBNER SHALE	3143	
TORONTO LIME	3162	
LANSING	3192	
BASE KANSAS CITY	3437	
ARBUCKLE	3456	
LTD	3500	
RTD	3500	

SEE ATTACHED GEOLOGICAL REPORT

TOP STAGE: 1-7-88  
 PORT COLLAR @ 1121', CEMENTED  
 WITH 300 SX 60/40 POZMIX 6% GEL  
 & 2% c.c. CEMENT DID CIRCULATE  
 B-J TITAN INVOICE #NP018

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 1/4"	8 5/8"		201'	POZMIX	150	60/40 2% gel
PRODUCTION	7 7/8"	4 1/2"		3497'	500 gals mudsweep & 150 sx surefill		3% c.c.

PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)	Depth
1 LE	3430	3411 & 3383		2500 gals Non E	3477
1 LE	3355	3283 & 3235		2500 gals Non E	3369
1 LE	3221 & 3169			1500 gals 20% Non E	3230

NOTE: SHOT OUT ALL ABOVE ZONES WITH 2' GUN

TUBING RECORD	Size 2 3/8"	Set At	Packer at	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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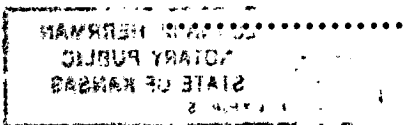
Date of First Production	Producing Method
1-12-88	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....

Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas-Oil Ratio CFPB	Gravity
	123.10		5.4		

METHOD OF COMPLETION  Open Hole  Perforation  Other (Specify) ..... 3168-3431

Disposition of gas:  Vented  Sold  Used on Lease  Open Hole  Perforation  Other (Specify) ..... 3168-3431

Dually Completed  Commingled



GEOLOGICAL REPORT

*Dan A. Nixon*

PETROLEUM GEOLOGIST

WELL #4 LOCATION C S/2 SW SE of Sec. 3, T13S-R16W Ellis Co., KS

LEASE Ottilia

Operator: R.P. Nixon Oper.  
207 W 12th Street  
Hays, Kansas 67601

Contractor: Shields Drilling Co.  
Box 709  
Russell, Ks. 67665

Elevation: American Elevations  
Ground level: 1978'  
Rotary bushing: 1983'  
The old Union Pacific datum  
base was used for elevation.

Samples: Ten foot samples from 2900' to  
3150' and five foot samples  
from 3150' to 3500' RTD.

Time Log: One foot intervals from 2950'  
to 3500' RTD. A copy of the  
time log is included in this  
report.

Surf. Casing: 8 5/8" @ 201' w/150 sx  
Prod. Casing: 4 1/2" @ 3497' w/150 sx SureFill  
Port Collar or DV: Port Collar set at 1121' with 300 sx

Spud Date: 12-1-87  
Comp. Date: 12-7-87

API #: 15-051-24,537  
Lease #: 6571/4

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<u>FORMATION TOPS:</u>	<u>SAMPLE DEPTH</u>	<u>LOG DEPTH</u>	<u>MINUS DATUM</u>
Anhydrite top (driller's)	1107'	1106'	+877
Anhydrite base "	1142'	1142'	+841
Topeka	2928'	2928'	-945
Heebner Shale	3143'	3143'	-1160
Toronto Lime	3164'	3162'	-1179
Lansing	3192'	3192'	-1209
Base of the Kansas City	3437'	3437'	-1454
Arbuckle	3454'	3456'	-1473
Total Depth	3500'	3500'	-1517

SAMPLE ANALYSIS OF ZONES OF INTEREST: (corrected to the electric log)

Toronto	3168'-3172'	Off-white, fine crystalline, fossiliferous lime, slight fossiliferous porosity, spotty stain and slight odor. Calculated 12% porosity, 42% water. Test.
Lansing	3192'-3204'	Grey, fine crystalline lime, occasional stain and slight fossil porosity. Log indicated this to be tight. Not worthy of testing.
	3230'-3242'	Grey, vuggy, mottled lime, spotty stain and good vuggy porosity. Excellent show of free oil and odor. Calculated 20% porosity, 37% water. Test.
	3280'-3290'	Fractured, chalky, white lime, spotty stain, slight fractured porosity. Slight show of free oil and odor. Calculated 11% porosity, 32% water. Log indicated this to be slightly shaley. Test.
	3351'-3358'	Grey, fine crystalline, lime, poor inter-crystalline lime, rare spotty stain. Slight show of free oil. Calculated 10% porosity, 30% water. Test.
	3382'-3385'	Fossiliferous, grey lime, occasional stain and slight fossil porosity. Should be considered for testing.
	3410'-3412'	Light grey, fractured lime, rare spotty stain, poor fractured porosity. Calculated 10% porosity, 48% water. Test before abandoning.
	3429'-3432'	Lime as above. Calculated tight on log. Test before abandoning.

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Arbuckle 3456'-3500'

Upper portion was fine crystalline, sucrosic, tan dolomite, spotty light stain, poor intercrystalline porosity. Calculated 13% porosity, 41% water in the upper 2' feet. As depth increased, crystal size increased to medium, porosity increased to fair vuggy porosity, stain remained spotty. Lower 20' contained occasional dead oil stain. Wet samples throughout the Arbuckle contained show of free oil and odor. Upper portion should be considered for testing prior to abandoning well.

REMARKS:

Structurally, the Lansing top on the #4 Otilia ran 1' low to the #3 Otilia (R.P. Nixon Oper.), the Lansing producer to the northwest, and 23' high to the #2 Harold (R.P. Nixon Oper.), the dry hole to the southeast.

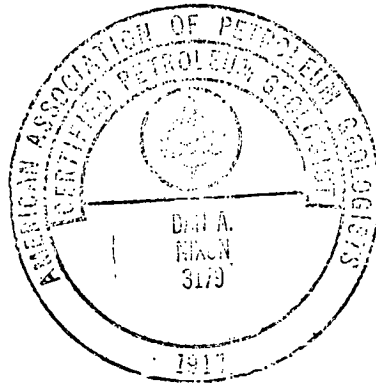
The Arbuckle top on the #4 Otilia ran 8' low to the same #3 Otilia and Arbuckle was not encountered in the #3 Harold (TD was -1523).

Based on its structural position of the Lansing top, shows throughout the Lansing and favorable electric log calculations of those zones in the Lansing with shows, 4 1/2" casing was cemented at 3497' with 125 sacks for further testing.

Respectfully Submitted,

*Dan A. Nixon*

Dan A. Nixon, CPG #3179



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DRILLING TIME LOG

2900' - 2950'	3-3-3-4-3 1-2-2-4-2	4-3-4-4-5 2-4-3-4-4	4-5-4-5-5 4-4-5-5-4	4-3-3-2-1 3-5-4-4-4	2-1-2-2-2 4-3-4-4-3
2950' - 3000'	4-4-5-4-4 5-4-4-4-5	4-4-4-5-4 4-5-3-4-5	5-5-4-4-4 5-5-4-4-4	3-4-4-4-4 4-3-3-4-3	5-4-4-4-3 4-3-3-4-3
3000' - 3050'	3-3-5-5-4 4-3-3-3-5	3-4-5-4-4 3-4-4-4-5	5-4-4-3-3 4-3-3-5-6	3-3-2-4-5 4-4-4-5-4	4-4-4-4-4 4-4-4-5-4
3050' - 3100'	5-4-4-5-6 3-3-2-1-2	6-6-7-6-7 2-4-4-6-6	7-7-4-4-3 6-5-7-6-6	4-8-6-7-6 7-6-7-6-5	6-5-6-4-5 6-4-5-5-5
3100' - 3150'	6-6-3-4-4 5-5-5-5-4	4-3-3-4-3 4-4-4-4-5	2-2-2-3-4 3-4-3-4-4	3-4-2-2-3 3-4-3-2-2	2-3-3-4-4 2-3-5-6-3
3150' - 3200'	2-3-2-3-3 4-3-2-3-3	3-3-2-3-3 2-2-2-2-2	2-3-3-3-4 1-2-1-2-2	4-4-3-4-5 1-2-4-4-4	4-4-4-5-5 3-4-5-5-5
3200' - 3250'	6-5-5-5-5 3-6-7-7-5	4-5-4-6-5 6-4-6-4-4	6-7-4-4-3 5-5-4-4-4	4-3-4-6-5 6-5-5-5-5	4-4-6-7-5 6-5-5-6-5
3250' - 3300'	7-6-7-6-6 7-7-7-6-7	4-3-6-4-6 6-6-6-5-3	4-3-6-5-6 2-2-3-4-5	7-6-7-5-4 5-6-6-6-4	6-6-3-5-4 5-5-6-5-6
3300' - 3350'	6-6-4-6-5 3-3-4-5-7	5-6-5-5-5 6-5-6-6-6	5-5-6-6-6 6-5-6-5-6	6-5-5-5-5 6-5-6-4-7	4-4-5-6-5 7-4-4-5-4
3350' - 3400'	5-4-4-5-6 6-6-7-6-5	5-4-6-6-6 4-5-5-5-6	6-6-6-6-7 6-6-6-6-7	6-5-6-5-3 7-5-7-7-4	4-4-4-5-4 4-4-4-3-3
3400' - 3450'	4-4-4-4-4 4-7-6-6-6	4-3-5-5-5 4-6-5-7-6	4-5-5-5-5 6-5-4-4-4	5-5-5-6-6 3-3-4-4-4	6-5-4-4-4 3-6-5-5-4
3450' - 3500'	2-2-3-2-5 6-5-5-7-5	4-5-4-5-5 5-5-3-5-5	4-2-4-3-3 6-4-5-3-5	4-3-3-4-3 6-4-6-5-5	3-3-4-4-5 6-5-4-4-5
3500' RTD Bit trip @ 3043'; CFS @ 3500' (1 hour)					

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