

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 # 5992  
Name Patton Oil Company  
Address 5990 S. Syracuse St.  
Suite 225  
City/State/Zip Englewood, Co. 80111

Purchaser Citgo Petr. Corp.  
Box 3758, Tulsa, Ok. 74102

Operator Contact Person John W. Smith  
Phone (303) 773-6016

Contractor: License # 6033  
Name Murfin Drlg. Co., 250 N. Water,  
#300, Wichita, Ks. 67202

Wellsite Geologist John B. Green, Jr.  
Phone (303) 798-1590

Designate Type of Completion

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

If OWWO: old well info as follows:

Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:

- Mud Rotary  Air Rotary  Cable

9-10-85 9-21-85 1-5-86  
Spud Date Date Reached TD Completion Date  
4885' 4320'  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 518 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated  
from.....feet depth to.....w/.....SX cmt

API NO. 15-097-21183-0000  
County Kiowa  
W/2.NW SE. Sec. 13 Twp. 28S Rge. 19  East  West

2100 Ft North from Southeast Corner of Section  
2310 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

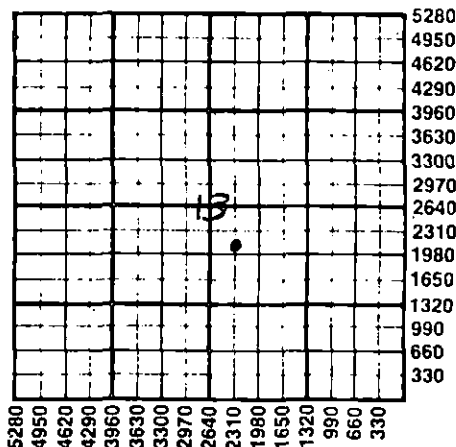
Lease Name Hendershot Well # A1

Field Name Johansen

Producing Formation Lansing

Elevation: Ground 2243 KB 2249

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  Repressuring  
Docket #

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).....Supplied by contractor  
(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 P. D. Jumper

Title Chairman of Bd. of Directors Date 4-2-86

Subscribed and sworn to before me this 2nd day of April 1986

Notary Public Audrey V. Nakata

Date Commission Expires 8/22/89

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)

APR 7 1986  
CONSERVATION DIVISION  
Wichita, Kansas

4-7-86

Sec. 13 Twp. 28S Rge. 19W

SIDE TWO

Operator Name Patton Oil Company Lease Name Hendershot Well # A1

Sec. 13 Twp. 28S Rge. 19  East  West County Kiowa

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

	Bottom	Name	Top	Bottom
Red Bed	1495'	Heebner Shale	4072	(-1823)
Anhydrite	1532'	Lansing	4240	(-1991)
Red Bed	2143'	Base/Kansas City		4651 (-2402)
Red Bed & Shale	2922'	Marimaton	4699	(-2450)
Lime & Shale	4880' (RTD)	Mississippian	4820	(-2571)

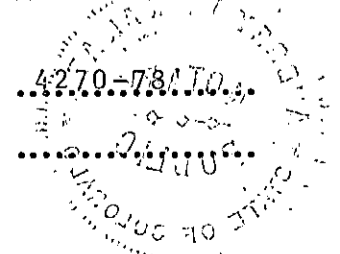
(See attached sheet for DST info)

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"	23	518'	Common/Lite Wt	325	Chloride - 10sx
Production	7-7/8"	4 1/2"	10.5	4884'	Common	200	Salt - 25 sx.
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
2	4835-40'			250 gal. 15% MCA			
2	4820-28'			1500 gal. Reg. 15% Acid			
2	4414-20'			25 ball sealers		CIBP 4600'	
2	4270-78'			750 gal. Reg. 15% NE Acid		CIBP 4320'	
TUBING RECORD		Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		2-3/8"	4260'	None			
Date of First Production	Producing Method						
1/5/86	<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	Gas	Water	Gas-Oil Ratio	Gravity		
	20 Bbls	MCF	30 Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) .....  
 Used on Lease  Dually Completed  
 Commingled



Attached to and made a part of ACO-1

API #15-097-21183  
Patton Oil Company  
Hendershot #A1  
2100' FSL & 2310' FEL  
Sec. 13-28S-19W  
Kiowa County, Ks.

### DRILL STEM TESTS

1. Lansing A and B zones  
4239-4288

IH	2016	
IF	137-157	15 minutes
ISI	1165	30 minutes
FF	216-364	60 minutes
FSI	1175	90 minutes
FH	1985	

Strong blow through both flow periods. Gas to surface in 19 minutes of final flow. Too small to measure. Recovered 60 feet slightly oil cut mud, 120 feet heavy oil cut mud, 180 feet of watery oil, and 480 feet of water with specks of oil.  
B.H.T. = 118.

2. Lansing C zone  
4294-4310

IH	2076	
IF	147-452	15 minutes
ISI	1215	30 minutes
FF	511-917	60 minutes
FSI	1245	90 minutes
FH	2076	

Strong blow throughout both flow periods. Recovered 1950 feet of gas cut salt water.  
B.H.T. = 118.

3. Mississippian  
4816-4845

Mis-run, pack failure.

4. Mississippian  
4800-4845

IH	2390	
IF	83-83	15 minutes
ISI	125	30 minutes
FF	83-83	60 minutes
FSI	146	90 minutes
FH	2390	

Weak blow throughout both flow periods. Recovered 60 feet of mud.  
B.H.T. = 126.

STATE GEOLOGICAL SURVEY  
APR - 7 1985  
CONSERVATION DIVISION  
Wichita, Kansas