

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 Co.  
Address 5990 S. Syracuse St.  
# 225  
City/State/Zip Englewood CO. 80111  
Purchaser Permian Corp.  
P. O. Box 1183, Houston, Tx.  
77254-1183  
Operator Contact Person John W. Smith  
Phone (303) 773-6016  
Contractor: License # 5122  
Name Woodman-Iannitti Drlg. Co.  
Wellsite Geologist Mack Armstrong  
Phone (316) 722-5141

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)  
If ONWO: old well info as follows:  
Operator  
Well Name  
Comp. Date  
Old Total Depth

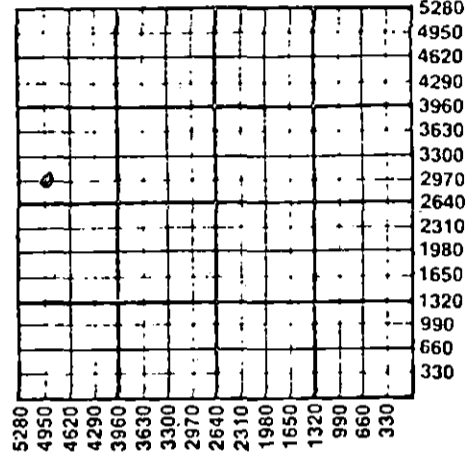
WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
11-9-85 11-17-85 12-17-85  
Spud Date Date Reached TD Completion Date  
4500' 4472  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 478 feet  
Multiple Stage Cementing Collar Used? Yes  No  
If yes, show depth set.....feet  
If alternate 2 completion, cement circulated N/A  
from.....feet depth to.....w/.....SX cmt  
Cement Company Name  
Invoice #

API NO. 15-047-21.261-0000  
County Edwards  
SW SW NW Sec. 9 Twp. 26 Rge. 16 East  
SW West  
2970 Ft North from Southeast Corner of Section  
4950 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)  
Lease Name Michael Well # 4  
Field Name Wil Treadale, North  
Producing Formation Kinderhook Sand  
Elevation: Ground 2079' KB 2084'

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 # T. 25-945..

Groundwater 2970 Ft North from Southeast Corner  
(Well) 4950 Ft West from Southeast Corner of  
Sec 9 Twp 26 Rge 16 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 John W. Smith John W. Smith  
Title President Date 1-8-86  
Date 4-17-86

Subscribed and sworn to before me this 17th day of April 1986  
Notary Public Audrey Nakata  
Date Commission Expires 8/22/89

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

4-21-86

APR 21 1986

APR - 3 1986

Operator Name Patton Oil Co. Lease Name Michael Well # 4

Sec. 9 Twp. 26 Rge. 16  East  West County Edwards

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
Sand	0	218	Topeka	3342	
Shale	218	257	Heebner	3763	
Shale w/ Sand Streaks	257	478	Toronto	3782	
Red Bed	478	994	Douglas	3796	
Red Bed	994	1056	Brown Lime	3909	
Anhydrite	1056	1073	Lansing	3928	
Shale	1073	2071	Base Kansas City	4192	
Shale	2071	2270	Pawnee	4346	
Shale	2270	2534	Ft. Scott	4380	
Shale & Lime	2534	2820	Conglomerate	4390	
Shale & Lime	2820	3015	Kinderhook	4421	
Shale & Lime	3015	3241	Viola	4482	
Lime & Shale	3241	3510	Total Depth	4502	
Lime & Shale	3510	3755			
Lime & Shale	3755	3911			
Lime	3911	4076			
Lime	4076	4176			
Lime & Shale	4176	4230			
Lime	4230	4355			
Lime	4355	4445			
Lime	4445	4500			

CASING RECORD <input checked="" type="checkbox"/> New <input 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"	24#	478'	60/40	275	3% CC...2% Gel
Production	7-7/8"	5-1/2"	17#	4449'	Common	150	10% Salt...10 Bbl. Flush

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	4440-58	Acid w/1000 gal 15% MCA	4472-PBTD
		Frac w/24,000# of 20/40 sand & 16,000# of 10/20 sand w/740 bbls of 1% gel acid	

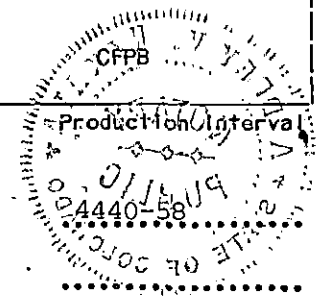
TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8"	4430			

Date of First Production	Producing Method
20-12-85	<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
	25 Bbls	MCF	Bbls <sup>25</sup>		

METHOD OF COMPLETION

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# 15-047-21,261  
 Patton Oil Co.  
 Michael #4  
 2970 FSL & 4950 FEL  
 Sec. 9-26-16W  
 Edwards County, Kansas

DST NO. 1  
 4053-4076 feet

Open 30 minutes, strong blow off bottom of bucket immediately. Shut-in 60 minutes. Gas-to-surface 10 minutes into initial shut-in period. Open 60 minutes, gas-to-surface immediately. Shut-in 120 minutes.

Recovery: 93 feet of gas cut mud  
 190 feet of gassey salt water  
 (110,000 chl)

Initial Hydrostatic Head 2055 psi  
 Initial Flow Pressure 85-95 psi  
 Initial Shut-in Pressure 1301 psi  
 Final Flow Pressure 143-118 psi  
 Final Shut-in Pressure 1311 psi  
 Final Hydrostatic Head 2035 psi  
 Temperature 118°

	<u>Time(Min.)</u>	<u>Choke</u>	<u>IOW</u>	<u>Rate(MCFD)</u>
Second Open	10	1/2"	18	7.12
	20	"	9	5.05
	30	"	9	5.05
	40	"	15	6.55
	50	"	15	6.55

DST NO. 2  
 4148-4176 feet

Open 30 minutes, strong blow off bottom of bucket immediately. Shut-in 60 minutes. Gas-to-surface 5 minutes into initial shut-in period. Open 60 minutes, gas-to-surface immediately. Shut-in 120 minutes.

Recovery: 640 feet of gassey frothy oil  
 (33° gravity corrected)

Initial Hydrostatic Head 2043 psi  
 Initial Flow Pressure 104-133 psi  
 Initial Shut-in Pressure 1428 psi  
 Final Flow Pressure 190-238 psi  
 Final Shut-in Pressure 1418 psi  
 Final Hydrostatic Head 2023 psi  
 Temperature 118

	<u>Time(Min.)</u>	<u>Choke</u>	<u>IOW</u>	<u>Rate(MCFD)</u>
Second Open	10	1/2"	15	24.50
	20	1/2"	8	4.76
	30	"	--	TSTM

DST NO. 3  
 4423-4445 feet

Open 30 minutes, weak blow building to 9 inches in bucket. Shut-in 60 minutes. Open 60 minutes, fair blow building to strong off bottom of bucket in 30 minutes. Shut-in 180 minutes.

Recovery: 62 feet of slighty gas cut mud  
 with a show of oil in tool

Initial Hydrostatic Head 2312 psi  
 Initial Flow Pressure 66-66 psi  
 Initial Shut-in Pressure 534 psi  
 Final Flow Pressure 85-66 psi  
 Final Shut-in Pressure 544 psi  
 Final Hydrostatic Head 2252 psi  
 Temperature 128°

RECEIVED  
 STATE CORPORATION COMMISSION

APR 21 1986

CONSERVATION DIVISION  
 Wichita, Kansas

RECEIVED  
 STATE CORPORATION COMMISSION

APR 8 1986

CONSERVATION DIVISION  
 Wichita, Kansas