

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 # 5238  
Name PETROLEUM, INC.  
Address Epic Center, Suite 900  
301 N. Main  
City/State/Zip Wichita, Kansas 67202

Purchaser Permian Oil Company

Operator Contact Person Terry Naylor  
Phone 316-793-8471

Contractor: License # 5422  
Name Abercrombie Drilling Co., Inc.

Wellsite Geologist Kenneth M. Dean  
Phone 316/291-8220

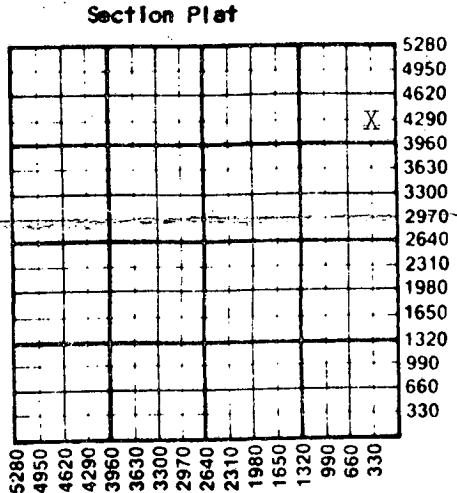
Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp Abd  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply etc.)  
If **OWNO**: old well info as follows:  
Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
..11-6-87... ..11-16-87... ..12-17-87  
Spud Date Date Reached TD Completion Date  
...4092... ..4022'  
Total Depth PBTD  
Amount of Surface Pipe Set and Cemented at 233 feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set...feet  
If alternate 2 completion, cement circulated  
from 4092 feet depth to surface w/ 280 sx cmt  
Cement Company Name B. J. Titan Services  
Invoice # YX037

API NO. 15-179-20,910-00:00  
County Sheridan  
SE NE NE Sec. 11. Twp. 10S. Rge. 26 East  
XX West  
4290 Ft North from Southeast Corner of Section  
330 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Lease Name Bittel, E! Well # 2  
Field Name Custer West  
Producing Formation I-KC  
Elevation: Ground 2566 KB 2571



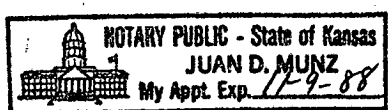
WATER SUPPLY INFORMATION  
Disposition of Produced Water:  Disposal  
Docket # C-22,301  Repressuring

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 water hauler  
(purchased from city, R.W.D. #)

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. 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 Terry Naylor  
Title Kansas District Superintendent Date 2-16-88  
Subscribed and sworn to before me this 16th day of February 1988  
Notary Public Juan D. Munz  
Date Commission Expires 11-9-88



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)

Form ACO-1 (5-86) 2-17-88  
FEB 17 1988  
Sec 11, Twp 10S, Rge 26E

SIDE TWO

Operator Name ..... PETROLEUM, INC. .... Lease Name..... Bittel 'E' ..... Well #..... 2.....

Sec...11..... Twp...10S..... Rge...26.....  East  West County..... Sheridan.....

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

DST #1, 3817-3837', 10-35-60-120 Rec 70' heavy oil cut mud. IFP 38-38#, ISIP 849#, FFP 47-66#, FSIP 849#.  
 DST #2, 3841-3860', 10-35-45-90 Rec 900' GIP, 75' heavy oil cut mud. IFP 38-38#, ISIP 190#, FFP 47-57#, FSIP 181#.  
 DST #3, 3860-3878', 15-30-30-30 Rec 5' oil specked mud. IFP 30-30#, ISIP 30#, FFP-30-30#, FSIP 30#.  
 DST #4, 3889-3913', 10-35-45-90 Rec 520' GIP, 135' clean oil, 60' very heavy oil cut mud, 60' heavy oil cut mud, 60' oil and gas cut mud. IFP 57-57#, ISIP 954#, FFP 95-124#, FSIP 954#.  
 DST #5, 3943-3971', 10-35-45-90 Rec 1635' GIP, 425' heavy oil cut mud. IFP 114-114#, ISIP 229#, FFP 162-190#, FSIP 229#.  
 DST #6, 3975-4015', 10-35-30-30 Rec 2' mud. IFP 38-38#, ISIP 47#, FFP 38-38#, FSIP 38#.

Name	Top	Bottom
Anhydrite	2198 (+ 373)	
B/Anhydrite	2232 (+ 339)	
Topeka	3572 (-1001)	
Heebner	3786 (-1215)	
Toronto	3808 (-1237)	
Lansing	3824 (-1253)	
Stark	4014 (-1440)	
B/KC	4053 (-1482)	

CASING RECORD <input checked="" 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"	29#	233'	60/40 Poz	160	3% CC, 2% Gel.
Production	7 7/8"	5 1/2"	14 & 15.5#	4090'	60/50 Poz Thrift Mix	150 330	10% salt 2% Gel, 3/4% FRA, 5# Gilsonite
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	3958-63', 3904-09', 3894-3900'			250 gal. 15% NF & 1000 gal. gelled acid.			3958-63'
2	3852-56', 3825-30'			500 gal. 15% NF & 1500 gal. gelled acid.			3904-09' & 3897-3900'
				9 BBL. gelled acid & 750 gal. gelled acid			3852-56'
TUBING RECORD							
Size		Set At		Packer at		Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
2 3/8"		3962.69		NA			
Date of First Production		Producing Method					
12-17-87		<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
48 Bbls		0 MCF	13 Bbls		CFPB		36.7

METHOD OF COMPLETION

Production Interval

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

3825-30', 3852-56', 3892-3900', 3904-09', & 3958-63'.....