

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 # 8653  
name Petroleum Technologies, Inc.  
address 4005 E. Kellogg  
City/State/Zip Wichita, KS 67218

Operator Contact Person N. David Urquhart  
Phone (316) 687-9963

Contractor: license # 5829  
name Aldebaran Drilling Co., Inc.

Wellsite Geologist David Barker  
Phone (316) 687-9044

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  
2-21-84 3-6-84 7-10-84  
Spud Date Date Reached TD Completion Date

4904' .....  
Total Depth PBTB

Amount of Surface Pipe Set and Cemented at 1010 feet  
KCC

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 - 007-21,772 - 00-00

County Barber

SE, SE, SW (Location) Sec 16 Twp 31S Rge 15  East  West

450 Ft North from Southeast Corner of Section  
3240 Ft West from Southeast Corner of Section  
(Note: locate well in section plat below)

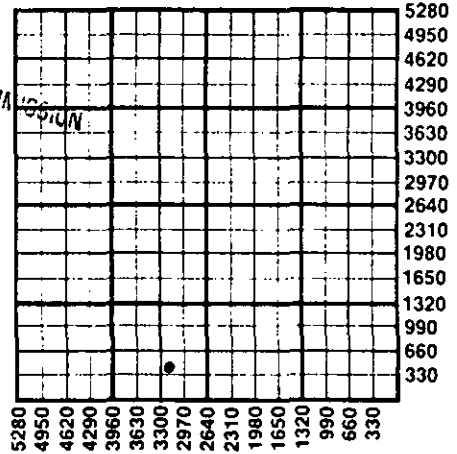
Lease Name Bray Well# 16-1A

Field Name

Producing Formation

Elevation: Ground 1794 KB 1803

Section Plat



RECEIVED  
STATE CORPORATION COMMISSION  
OCT 31 1984  
CONSERVATION DIVISION  
Wichita, Kansas  
10-31-84

WATER SUPPLY INFORMATION

Source of Water:  
Division of Water Resources Permit #

Groundwater ..... Ft North From Southeast Corner and  
(Well) ..... Ft West From Southeast Corner of  
Sec Twp Rge  East  West

Surface Water ..... Ft North From Southeast Corner and  
(Stream, Pond etc.) ..... Ft West From Southeast Corner  
Sec Twp Rge  East  West

Other (explain) .....  
(purchased from city, R.W.D.#)

Disposition of Produced Water:  Disposal  Repressuring

Docket #

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. Rules 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 Quans B. Gardner  
Title Vice-President, Exploration Date 10-30-84

Subscribed and sworn to before me this 30th day of October 19 84

Notary Public Marvin L. Porter  
Date Commission Expires 1-2-86

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)

MARVIN L. PORTER  
NOTARY PUBLIC  
State of Kansas  
1-2-86

Form ACO-1  
(This form supercedes previous forms ACO-1 & C-10)

Sec. 16 Twp. 31S Rge. 15W

Operator Name Petroleum Technologies, Inc. Lease Name Bray Well# 16-1A SEC 16 TWP. 31S RGE. 15  East  West

**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
ONAGA	2950	- 1147
STOTLER	3124	- 1321
TOPEKA	3348	- 1545
HEEBNER	3841	- 2038
UP. DOUGLAS SD.	3931	- 2128
LANSING	4014	- 2211
BKC	4395	- 2592
MISSISSIPPI	4549	- 2746
BASE OF CHATTANOOGA	4690	- 2887
BASE OF VIOLA	4860	- 3057

DST #1: 30-60-30-30 Top: 4424 Bottom: 4475  
 IHSP: 2119 FHSP: 2109  
 ISIP: 70-50 IFP: 40-40  
 FFP: 40-40 BHT: 114°  
 1st Op: Very weak blow  
 2nd Op: No blow

DST #2: 30-60-45-90 Top: 4687 Bottom: 4696  
 IHSP: 2198 FHSP: 2188  
 ISIP: 1045-1074 IFP: 99-516  
 FFP: 533-702 BHT: 119°  
 1st Op: Strong blow in 2 mins. - No GTS  
 2nd Op: Strong blow in 4 mins. - No gas

CASING RECORD <input 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
Conductor		10-3/4"		160'	Lite	100	
Surface	12 1/2"	8 4/8"	23#	1010'	Common	150	2% Gel, 3% CaCl
Plug(3-7-84)					Poz	265	2% Gel, 3% CaCl
Plug(7-10-84)					Class A	50	

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
shots per foot	specify footage of each interval perforated	(amount and kind of material used)	Depth

TUBING RECORD			Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No	
size	set at	packer at		

Date of First Production	Producing method <input type="checkbox"/> flowing <input type="checkbox"/> pumping <input type="checkbox"/> gas lift <input type="checkbox"/> Other (explain)			
	Oil	Gas	Water	Gas-Oil Ratio
Estimated Production Per 24 Hours	Bbls	MCF	Bbls	CFPB

Disposition of gas:  vented  sold  used on lease

**METHOD OF COMPLETION**  open hole  perforation  other (specify) \_\_\_\_\_

**PRODUCTION INTERVAL** \_\_\_\_\_

Dually Completed:  Commingled