

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

API NO. 15- 007-22,143 - 00-00 ^{22,413}

County Barber

Approximate NW - NW Sec. 22 Twp. 31S Rge. 15W ^E_W

540 Feet from S (N) (circle one) Line of Section

705 Feet from E (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, (NW) or SW (circle one)

Lease Name Bear Creek Ranch Well # 22-1

Field Name Donald North

Producing Formation N/A

Elevation: Ground 1810 KB 1819

Total Depth 4610 PBDT

Amount of Surface Pipe Set and Cemented at 220 Feet

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan DFA 5-2-93
(Data must be collected from the Reserve Pit)

Operator: License # 8653

Name: Petroleum Technologies, Inc.

Address 500 Nichols Road
Suite 407

City/State/Zip Kansas City, MO 64112

Purchaser: N/A

Operator Contact Person: Alan J. Seaton

Phone (816) 531-6904

Contractor: Name: Duke Drilling

License: 5929

Wellsite Geologist: Wes Hansen

Designate Type of Completion
X New Well Re-Entry Workover

 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
X Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

3/12/93 3/21/93 3/22/93
Spud Date Date Reached TD Completion Date

Chloride content 4300 ppm Fluid volume 854 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 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 geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. 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 [Signature]

Title President Date 3 APR 5 1993

Subscribed and sworn to before me this 29th day of March 19 93.

Notary Public Celina M. Sanchez

Date Commission Expires _____

RECEIVED
STATE CORPORATION COMMISSION
CONSERVATION DIVISION
Wichita, Kansas

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
 Wireline Log Received
 Geologist Report Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

CELINA M. SANCHEZ
Notary Public - State of Missouri
Commissioned in Clay County
My Commission Expires July 4, 1998

Operator Name Petroleum Technologies, Inc. Lease Name Bear Creek Ranch Well # 22-1

Sec. 22 Twp. 31S Rge. 15 East West
 County Barber

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
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run: Comp. Neutron Density; Dual Induction

DST: Cherokee Sd: 4523-4558. 30-45-60-90. 1st Open: Weak blow bldg to 9". 2nd Open: Steady 8-9" blow. Rec. 150' gas in pipe; 40' gas cut mud. ISIP: 153#; FSIP: 387#; IF: 51-51; FF: 71-71; IHP: 2103; FHP: 2103.

<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample		
Name	Top	Datum
Heebner	3860	-2041
Douglas	3890	-2071
Lansing	3909	-2090
Swope	4372	-2553
BKC	4446	-2627
Marmaton	4472	-2653
Cherokee Shale	4523	-2704
Cherokee Sand	4534	-2715
Mississippi	4544	-2725

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 Casing	14 1/4"	10 3/4"	32.5	233'	60/40 PozMix	250	2% gel; 3% c.c

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

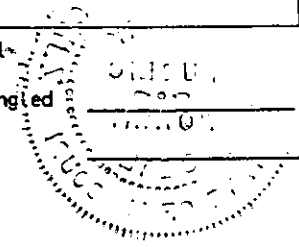
TUBING RECORD		Size	Set At	Packer At	Liner Run		
					<input type="checkbox"/> Yes <input type="checkbox"/> No		
Date of First, Resumed Production, SWD or Inj.			Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Other (Specify) Completed

Production Interval: Commingled

Commission Expires July 4, 1999



ALLIED CEMENTING CO., INC.

2954

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	3/12/93	Sec.	22	Twp.	31	Range	15	Called Out	2:00 AM	On Location	4:45 AM	Job Start	8:20 AM	Finish	8:45 AM
Bear Lease Creek Ranch		Well No. 22-1		Sun City Location xks 1 1/2 S to Y 1 1/2 W 15				County		Marion		State		KS	
Contractor								Owner							
DUKE Drilling Rig 5								Petroleum Technologies INC							
Type Job								To Allied Cementing Co., Inc.							
10 3/4" Surface Csg								You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.							
Hole Size				T.D.				Charge To				Petroleum Technologies INC			
14 3/4				234				Street				500 Nichols Rd. #407			
Csg.				Depth				City				Kansas City State Missouri 64112			
10 3/4 32.75#				234				(The above was done to satisfaction and supervision of owner agent or contractor.)							
Tbg. Size				Depth				Purchase Order No.				270 sel 38 cc			
Drill Pipe				Depth				Consisting of							
Tool				Depth				Common				120 5.75 690.00			
Cement Left in Csg.				Shoe Joint				Poz. Mix				80 3.00 240.00			
15 FT				15 FT				Gel.				4 7.00 28.00			
Press Max.				Minimum				Chloride				6 25.00 150.00			
200 PSF								Quickset							
Meas Line				Displace				Handling				200 1.00 200.00			
				22 BBL				Milage				22 1.76 200.00			
Perf.								Sub-Total				1484.00			

EQUIPMENT

Pumptrk	No. 234	Cementer	Max Ball
		Helper	Justin Hart
Pumptrk	No.	Cementer	
		Helper	
Bulktrk	259	Driver	John Kelly
Bulktrk		Driver	

DEPTH of Job

Reference:	234 FT	Pump Truck	430.00
	22 Mi.	Milage	49.50
	1	10 3/4 Top Wooden Plug	47.00
		Sub-Total	
		Total	526.50

Remarks: Cmt 10 3/4" Surface Pipe with 200sk. 60'40'2 + 390 CaCl Drop Plug Displace 22 BBL Close head IN Circulated 10 BBL CMT

Amount Ordered	200sk 60'40' 200sk
Consisting of	
Common	120 5.75 690.00
Poz. Mix	80 3.00 240.00
Gel.	4 7.00 28.00
Chloride	6 25.00 150.00
Quickset	
Handling	200 1.00 200.00
Milage	22 1.76 200.00
Sub-Total	
Total	1484.00
Flooring Equipment	
Total \$ 2010.50	
DSC - 402.10	
1608.40	

APR 5 1993

Bear Creek Ranch
New

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

2961

Date	3/22/93	Sec	22	Twp.	31	Range	15	Called Out	3:00 AM	On Location	5:00 AM	Job Start	7:20 AM	Finish	8:30
Lease	Bear Creek Ranch	Well No.	22-1	Location	SUN CITY 1/2 STAY 1/2 W 1/2 E	County	Barber	State	Ks						
Contractor	Duke Drilling Rig 5														
Type Job	Rotary Plug														
Hole Size	7 7/8	T.D.	4610												
Csg.	10 3/4 3275 #	Depth	234												
Tbg. Size		Depth													
Drill Pipe	4 1/2 16,60 #	Depth													
Tool		Depth													
Cement Left in Csg.		Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace													
Perf.															

Owner: Petroleum Technologies, Inc.
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
 Charge To: Petroleum Technologies, Inc.
 Street: 500 Nichols Rd #407
 City: Kansas City, State: Mo. 64112
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. *X Mike [Signature]*
CEMENT

EQUIPMENT

Pumptrk	No. 245	Cementer	Max Ball
		Helper	Carl Baldwin
Pumptrk	No. 242	Cementer	
		Helper	
Bulktrk		Driver	Mark Brundart
Bulktrk		Driver	

Amount Ordered	160 sks 60' 40' 6 20 gal		
Consisting of	Common	96	5.75 = 552.00
	Poz. Mix	64	3.00 = 192.00
	Gel.	10	7.00 = 70.00
	Chloride		
	Quickset		
	Handling	160	1.00 = 160.00
	Mileage	22	6.40 = 140.80
	Total		1114.80
Floating Equipment			
TOTAL	\$ 1615.30		
Disc	- 323.06		
	\$ 1292.24		

DEPTH of Job		
Reference:	Pump charge	430.00
22 MF	Pump Truck	49.50
	Plug	21.00
	Total	500.50

Remarks: Plug Thru Drill Plug with 160 sks
 60' 40' 6 20 gal 50 sks @ 500' 80 sks @ 250'
 15 sks 40' 15 sk Rathole 150' 150' etc.

RECEIVED
 STATE CORPORATION COMMISSION

APR 5 1993
 CONSERVATION DIVISION
 Wichita, Kansas

ALLIED CEMENTING CO., INC.

P.O. BOX 31
RUSSELL, KS 67665

CEMENTING LOG

STAGE NO.

Date 3/22/93 District Med. Lodge Ticket No. 2961
 Company P.T.I. Rig Duke Rigs
 Lease Bear Creek Ranch Well No. 22-1
 County Barber State Ks
 Location 22-31-15 Field _____
Sun City 1 1/2 S to Y 1 1/2 W 1 3/4 E

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 10 3/4" Type _____ Weight 32.75 Collar _____

Casing Depths: Top 0 Bottom 234

Drill Pipe: Size 4 1/2" Weight 16.6 Collars _____
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .1009 Lin. ft./Bbl. 9,9099
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16,5993
 Drill Pipe: Bbls/Lin. ft. .0142 Lin. ft./Bbl. 70,3235
 Annulus: Bbls/Lin. ft. .0812 Lin. ft./Bbl. 12,3096
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: Fresh H₂O
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. 160 Sks Yield 1.58 ft³/sk Density 13.8 PPG

TAIL: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 WATER: Lead 7.4 gals/sk Tail _____ gals/sk Total 29.7 Bbls.

Pump Trucks Used 255-265 Carl Baldwin
 Bulk Equip. 242 Mark Prudgatt

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type _____ Amt. _____ Bbls. Weight _____ PPG _____
 Mud Type _____ Weight _____ PPG _____

COMPANY REPRESENTATIVE Lyle Jorgenson CEMENTER Max Ball

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
5:00						ON Loc Rig up
7:20		100		20	4	Pump H ₂ O Spacer Ahead
7:20		200		14	5	Mix 50sks 60:40:6 D.P. @ 500 FT
7:23		50		3.3	2	Cmt mix Displace
7:25						Cmt in Place Shut Down Pull Pipe
7:48		50		5	4	Pump H ₂ O spacer
7:41		100		22.5	5	Mix cmt 50sks 60:40:6 D.P. @ 250 FT
7:51		60		4	2	Pump Displacement
7:52						Shut Down Pull D.P.
8:12		50		4.25	2	Mix 15sks 60:40:6 D.P. @ 40 FT
8:17		60		4.25	2	Mix 15sks 60:40:6 in Nat hole

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs.
 Taylor Printing, Inc., Pratt, KS

RECEIVED
 STATE APPROPRIATION COMMISSION
 APR 5 1993
 THANK CONSERVATION DIVISION
 Wichita, Kansas