

097-21,264 0000

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

API NO. 15-.....
County..... Kiowa
..... NW NE SWW Sec. 34 Twp. 30S Rge. 17W East West

Operator: License # 03855
Name P & M PETROLEUM MANAGEMENT
Address 1600 Broadway, Suite 1700
City/State/Zip Denver, CO 80202

2300 Ft North from Southeast Corner of Section
3580 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

Purchaser..... None

Lease Name..... Booth Well # 1

Operator Contact Person Robert W. Peterson
Phone 303-861-2470

Field Name.....

Producing Formation..... Osage

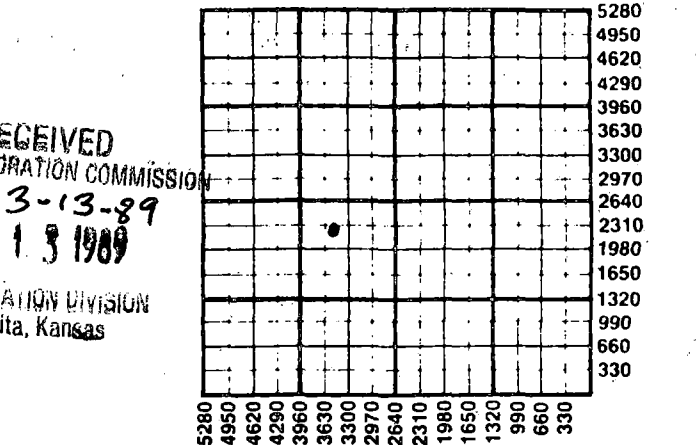
Contractor: License # 5864
Name Lobo Drilling Company

Elevation: Ground..... 2124' KB 2129'

Wellsite Geologist Denny Furst
Phone 303-292-6116

Section Plat

Designate Type of Completion
 New Well Re-Entry Workover



Oil Gas Dry
 SWD Inj Other (Core, Water Supply etc.)
 Temp Abd Delayed Comp.

WATER SUPPLY INFORMATION
Disposition of Produced Water: Disposal (Completion Only)
 Repressuring
Docket #

If OWWO: old well info as follows:
Operator,
Well Name,
Comp. Date, Old Total Depth.....

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
9-23-88 9-29-88 12-16-88
Spud Date Date Reached TD Completion Date
5200' 5112'
Total Depth PBDT

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #..... N/A

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

Surface Water..... 2300 Ft North from Southeast Corner (Stream, pond etc.) 3580 Ft West from Southeast Corner Sec 29 Twp 31 Rge 17 East West

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

Amount of Surface Pipe Set and Cemented at 465 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
Cement Company Name B J Titan
Invoice # 280960

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 Robert W. Peterson
Title Partner/Petroleum Engineer Date 3/10/89

Subscribed and sworn to before me this 10th day of March 1989
Notary Public Beth M Jameson
Date Commission Expires 10-10-89

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)

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STATE CORPORATION COMMISSION
3-13-89
MAR 13 1989
CONSERVATION DIVISION
Wichita, Kansas

Sec. 34 Twp. 30 Rge. 17W

Operator Name P & M PETROLEUM MANAGEMENT Lease Name Booth Well # 1

Sec. 34 Twp. 30 S Rge. 17 W 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

DST #1 5000-22' Straddle Test (Osage Formation) Name OSAGE Top 4984 Bottom 5051

T.O. 45 mins, ISI 60 mins, FO 60 mins, FSI 120 mins.
 T.O. w/good blow & incr to strong blow in 30 secs.
 Decr in 20 mins. Re-opened w/strong blow in 15 sec and started decr after 15 mins.
 Rec. 96' Drilling Mud & 1757' Gas

Chert and dolomite & dolomitic Ls. Chert, wh to lt gry, translucent, oxidized in part. Dolo & Ls, vfn to fn, sucrosic texture.

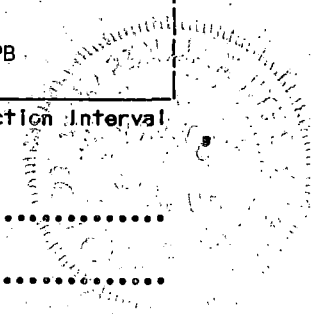
IHP 2500 psi
 IFP 33 to 33 psi
 ISIP 528 psi
 FFP 48 to 48 psi
 FSIP 939 psi
 FHP 2522 psi
 BHI 116°F

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
Production	7.7/8"	4.1/2"	11.6	5152	Surefill	275	4 lbs. gilsonite per sack
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			
Shots Per Foot	Specify Footage of Each Interval Perforated					Depth	
2	5016-28' KB			2000 gals 15% FE Acid		5016-28'	
2	4998-5012' KB			600 gals 15% FE Acid		4998-5012'	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size		Set At		Packer at			
2 3/8" EUE		5036'		None			
Date of First Production		Producing Method					
11-9-88		<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	
None		132	310	---	---		
		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

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



DENNY FURST
16536 W. 74th Place
Golden, Colorado 80403

GEOLOGICAL REPORT

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STATE CORPORATION COMMISSION

MAR 13 1989

CONSERVATION DIVISION
Wichita, Kansas

P&M PETROLEUM MANAGEMENT
BOOTH NO. 1
Approx. NE-SW Sec. 34 - T30S-R17W
COMANCHE COUNTY, KANSAS

October, 1988

GEOLOGICAL REPORT

P & M PETROLEUM MANAGEMENT
BOOTH NO. 1
Approx. NE-SW Sec. 34-T30S-R17W
COMANCHE COUNTY, KANSAS

ELEVATIONS: 2129 Kelly Bushing
2124 Ground Level

CONTRACTOR: Lobo Drilling Company, Rig No. 1

COMMENCED: September 23, 1988
COMPLETED: September 30, 1988

ROTARY TOTAL DEPTH: 5200 feet
LOGGED TOTAL DEPTH: 5202 feet

SURFACE PIPE: 8-5/8" 23# @ 465' J-55 New Casing

PRODUCTION PIPE: 4 1/2" 11.6# 8 Round Range 3 LT&C @ 5162 w/275 Sxs
w/4# Gilsonite/sx

MUD PROGRAM: Davis Mud & Chemical, Inc. -- Chemical Mud

GAS DETECTOR: Payne Logging Company

TESTING: Diamond Testing

LOGGING: Welex
1. DIGL
2. DSN-CDL
3. CAL

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Conservation Division
Wichita, Kansas

DAILY PENETRATION RATE:

September 24, 1988	1545' Drilling	1080 ft. after surface set 465'
September 25, 1988	2745' Drilling	1200 ft.
September 26, 1988	3550' Drilling	805 ft.
September 27, 1988	4140' Drilling	590 ft.
September 28, 1988	4646' Drilling	506 ft.
September 29, 1988	5080' Drilling	434 ft.
September 30, 1988	5200' Drilling	120 ft. Logging, DST No. 1
October 01, 1988	Set 4-1/2" Csg.	

REMARKS:

All measurements are from Kelly Bushing (2129 feet). RTD was 5200 feet. LTD was 5202 feet (-3073).

One foot drilling time was plotted from 4000 feet to TD. Ten foot samples were saved from 4000 feet to 5200 feet. Samples were brought to Denver and will be delivered to the KGS Well Sample Library in Wichita, Kansas.

GEOLOGICAL REPORT
BOOTH NO. 1
PAGE TWO

One straddle packer drill stem test was taken covering the Mississippian zone after logs were run.

Log total depth was 5202 feet, driller's total depth after strap was 5200 feet.

FORMATIONS:

The following are the depths and datums of formation tops encountered as determined by sample and electrical/nuclear log analysis.

<u>Formation</u>	<u>Sample</u>	<u>Log</u>	<u>Datum</u>
Heebner	4182	4182	(-2053)
Toronto	4200	4202	(-2073)
Douglas	4210	4214	(-2085)
Douglas Sdy Ls	4230	4230	(-2101)
Brown Lime	4356	4358	(-2229)
Lansing	4372	4374	(-2245)
Swope	4681	4690	(-2561)
Hertha	4742	4744	(-2615)
Base Kansas City	4782	4782	(-2653)
Marmaton Altamont	4835	4837	(-2708)
Pawnee	4874	4876	(-2747)
Fort Scott	4911	4913	(-2784)
Cherokee	4922	4922	(-2793)
Conglomerate	4982	4984	(-2855)
Mississippian	4995	4996	(-2867)
Total Depth	5200	5202	(-3073)

DRILL STEM TESTS:

A geological log is included with this report and is considered a part of it. Refer to it for sample descriptions. The following are drill stem test results.

Mississippian 4995 feet (4996 EL)

DST NO. 1 Straddle Test	Open 45 minutes, strong blow 30 seconds.
5000-5022 feet	decrease in 20 minutes, shut in 60 minutes.
Packer Depth: 4995,5000 ft.	Open 60 minutes, strong blow 15 seconds,
5022,5027 ft.	decrease after 15 minutes.. Shut in 120 min.
	Recovery: 96 feet of drilling mud 1757' GIP
	Initial Hydrostatic Head 2500 psi
	Initial Flow Pressure 33-33 psi
	Initial Shutin Pressure 528 psi
	Final Flow Pressure 48-48 psi
	Final Shut-in Pressure 939 psi
	Final Hydrostatic Head 2522 psi
	Temperature 116°

GEOLOGICAL REPORT
BOOTH NO. 1
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RECOMMENDATIONS AND CONCLUSIONS:

The following is a structural comparison of the Booth No. 1 to the Huey Grey Wedel No. 1 approximately NW-SW Section 34-30S-17W.

<u>Formation</u>	<u>Booth No. 1</u>	<u>Huey Grey Wedel No. 1</u>	<u>Structural Comparison</u>
Heebner	- 2053	- 2059	+ 6'
Toronto	- 2073	- 2077	
Douglas	- 2085	- 2093	
Douglas Sandy Ls	- 2101	- 2107	
Brown Lime	- 2229	- 2233	+ 4'
Lansing	- 2245	- 2249	+ 4'
Swope	- 2561	- 2565	+ 4'
Hertha	- 2625	- 2621	+ 4'
Base/Kansas City	- 2653	- 2659	+ 6'
Marmaton Altamont	- 2708	- 2713	+ 5'
Pawnee	- 2747	- 2755	
Fort Scott	- 2784	- 2791	
Cherokee	- 2793	- 2799	+ 6'
Conglomerate	- 2855	- 2861	+ 6'
Mississippian	- 2867	- 2887	+20'
Total Depth	- 3073	- 2993	-3073

At a rotary total depth of 5200 feet the Booth No. 1 was logged by Welex and DST No. 1 was taken. Even though the DST was not conclusive the logs indicated that 34' porosity in the Mississippian was not adequately evaluated. Since the Booth No. 1 is 20' high on the Mississippian to the Huey Grey Wedel No. 1, it was decided to further test the Mississippian through casing. The Marmaton Altamont zone perforated in the Huey Grey Wedel No. 1 was not developed in the No. 1 Booth and is not considered worthy of further testing.

Respectfully submitted,


Denny P. Furst

DPF/mlm
October 12, 1988

