

SIDE ONE

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 # 9839  
Name Pendulum Petroleum  
Address P.O. Box 1088  
City/State/Zip Arkansas City, KS, 67005

Purchaser KOCH OIL

Operator Contact Person Craig Bazzle  
Phone (316) 442-4629

Contractor: License # 5418  
Name Allen Drilling Company

Wellsite Geologist CRAIG BAZZLE  
Phone 316-442-4629

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

1/27/89 1/30/89 2/11/89  
Spud Date Date Reached TD Completion Date

3327'  
Total Depth PBSD

Amount of Surface Pipe Set and Cemented at 240' 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  
Invoice #

API NO. 15-185-22,566  
County Stafford  
SE SW NW Sec. 3 Twp. 21 Rge. 11 East  
2970 Ft North from Southeast Corner of Section  
4290 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

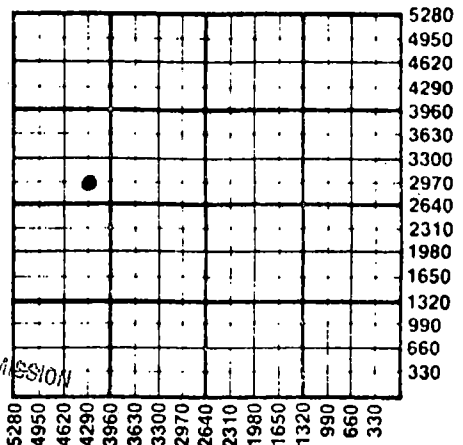
Lease Name Snider F. Well # 1

Field Name SNIDER

Producing Formation ARBUCKLE

Elevation: Ground 1765 KB 1772

Section Plat



RECEIVED  
STATE CORPORATION COMMISSION  
AUG - 3 1989

WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  Repressuring  
Docket #

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 city, R.W.D. #)

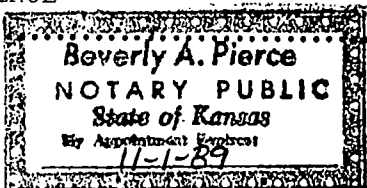
INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential 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 [Signature]  
Title PRESIDENT Date 7/31/89

Subscribed and sworn to before me this 31ST day of JULY 1989  
Notary Public Beverly A. Pierce  
BEVERLY A. PIERCE

Date Commission Expires



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)

Operator Name Pendulum Petroleum Lease Name Snider F Well # 1

Sec. 3 Twp. 21 Rge. 11  East  West County Stafford

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

SEE COPY OF DST REPORT ATTACHED

Name	Top	Bottom
ARBUCKLE	3320	3327

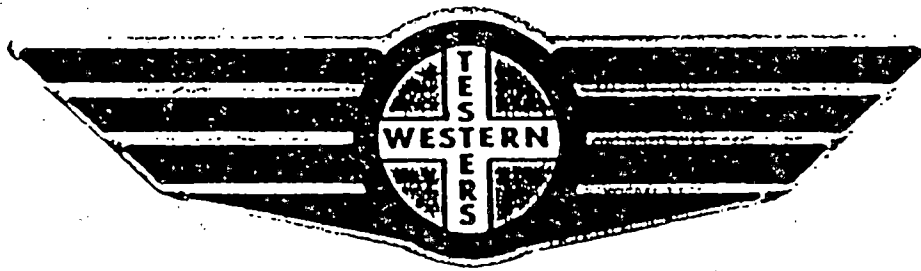
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	20#	240'	60/40POZ	175	2%gel; 3%CC
Production	7.875	4-1/2"	10.5#	3319'	50/50POZ	150	2%GEL
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)			
Shots Per Foot	Specify Footage of Each Interval Perforated			Depth			
N/A	N/A			ACID - 1000 GAL. 15% FE			3327
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size 2 3/8		Set At 3300		Packer at N/A			
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....						
2/11/89							
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity		
120 Bbls	0 MCF	0					

METHOD OF COMPLETION

Production Interval

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

# FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201  
P.O. Box 1599 Phone (316) 262-5861

RECEIVED  
STATE CORPORATION COMMISSION  
AUG - 3 1989  
CONSERVATION DIVISION  
Wichita, Kansas

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 1/31/89 TICKET : 14207  
CUSTOMER : PENDULUM PETROLEUM INC. LEASE : SNIDER F  
WELL : #1-F TEST: 1 GEOLOGIST : BAZZLE  
ELEVATION : FORMATION : ARBUCKLE  
SECTION : 3 TOWNSHIP : 21S  
RANGE : 11W COUNTY : STAFFORD STATE : KANSAS  
GAUGE SN# : 10270 RANGE : 4150 CLOCK : 12

INTERVAL FROM : 3319 TO : 3327 TOTAL DEPTH : 3327  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 3314 SIZE : 6.63  
PACKER DEPTH : 3319 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN DRILING RIG #5  
MUD TYPE : CHEMICAL VISCOSITY : 41  
WEIGHT : 9.5 WATER LOSS (CC) : 11.4  
CHLORIDES (PPM) : 8500  
JARS-MAKE : H&T SERIAL NUMBER : 100  
DID WELL FLOW ? : GAS REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 0 FT I.D. inch : 0.00  
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00  
DRILL PIPE LENGTH : 3295 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 24 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 8 FT ANCHOR SIZE : 5.50  
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75  
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5 XH

BLOW COMMENT #1 : INITIAL FLOW BLOW GAS TO SURFACE IN 49 MIN  
BLOW COMMENT #2 : FINAL FLOW-GAS TO SURFACE  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : PENDULUM PETROLEUM INC.  
RIG : STAFFORD-KANSAS  
FIELD : SNIDER F  
WELL : #1-F  
DATE : 1/31/89  
GAUGE NO : 10270

OPERATIONAL COMMENTS

GAS TOO WEAK TO GAUGE



COMPANY : PENDULUM PETROLEUM INC.  
 WELL : #1-F  
 GAUGE # : 10270  
 DATE : 31/ 1/89

FIELD : SNIDER F  
 JOB # : 14207  
 DEPTH : 3327  
 TEST : GAS TOO WEAK TO GAUGE

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	3:15: 0	0.000	66.000	110.00	0.000
3	3:19:59	0.083	66.000	110.00	0.000
4	3:25: 0	0.167	68.000	110.00	2.000
5	3:30: 0	0.250	73.000	110.00	5.000
6	3:34:59	0.333	83.000	110.00	10.000
7	3:40: 0	0.417	93.000	110.00	10.000
8	3:45: 0	0.500	101.000	110.00	8.000
9	3:49:59	0.583	113.000	110.00	12.000
10	3:55: 0	0.667	118.000	110.00	5.000
11	4: 0: 0	0.750	124.000	110.00	6.000
12	4: 4:59	0.833	128.000	110.00	4.000
13	4:10: 0	0.917	131.000	110.00	3.000
14	4:15: 0	1.000	134.000	110.00	3.000
INITIAL SHUT-IN PERIOD					
15	4:18: 0	1.050	292.000	110.00	158.000
16	4:21: 0	1.100	375.000	110.00	83.000
17	4:24: 0	1.150	431.000	110.00	56.000
18	4:27: 0	1.200	468.000	110.00	37.000
19	4:30: 0	1.250	507.000	110.00	39.000
20	4:33: 0	1.300	533.000	110.00	26.000
21	4:36: 0	1.350	567.000	110.00	34.000
22	4:39: 0	1.400	588.000	110.00	21.000
23	4:42: 0	1.450	607.000	110.00	19.000
24	4:45: 0	1.500	627.000	110.00	20.000
25	4:48: 0	1.550	647.000	110.00	20.000
26	4:51: 0	1.600	667.000	110.00	20.000
27	4:54: 0	1.650	684.000	110.00	17.000
28	4:57: 0	1.700	702.000	110.00	18.000
29	5: 0: 0	1.750	717.000	110.00	15.000
30	5: 3: 0	1.800	731.000	110.00	14.000
31	5: 6: 0	1.850	744.000	110.00	13.000
32	5: 9: 0	1.900	756.000	110.00	12.000
33	5:12: 0	1.950	772.000	110.00	16.000
34	5:15: 0	2.000	779.000	110.00	7.000
FINAL FLOW PERIOD					
35	5:16: 0	2.017	165.000	110.00	-614.000
36	5:19:59	2.083	165.000	110.00	0.000
37	5:25: 0	2.167	173.000	110.00	8.000
38	5:30: 0	2.250	178.000	110.00	5.000
39	5:34:59	2.333	184.000	110.00	6.000
40	5:40: 0	2.417	191.000	110.00	7.000
41	5:45: 0	2.500	197.000	110.00	6.000
42	5:49:59	2.583	202.000	110.00	5.000
43	5:55: 0	2.667	204.000	110.00	2.000
44	6: 0: 0	2.750	208.000	110.00	4.000
45	6: 4:59	2.833	214.000	110.00	6.000
46	6:10: 0	2.917	221.000	110.00	7.000
47	6:15: 0	3.000	225.000	110.00	4.000
FINAL SHUT-IN PERIOD					
48	6:18: 0	3.050	377.000	110.00	152.000

COMPANY : PENDULUM PETROLEUM INC.  
WELL : #1-F  
GAUGE # : 10270  
DATE : 31/ 1/89

FIELD : SNIDER F  
JOB # : 14207  
DEPTH : 3327  
TEST : GAS TOO WEAK TO GAUGE

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P_{(i-1)}$
49	6:21: 0	3.100	444.000	110.00	67.000
50	6:24: 0	3.150	483.000	110.00	39.000
51	6:27: 0	3.200	518.000	110.00	35.000
52	6:30: 0	3.250	549.000	110.00	31.000
53	6:33: 0	3.300	578.000	110.00	29.000
54	6:36: 0	3.350	600.000	110.00	22.000
55	6:39: 0	3.400	622.000	110.00	22.000
56	6:42: 0	3.450	641.000	110.00	19.000
57	6:45: 0	3.500	665.000	110.00	24.000
58	6:48: 0	3.550	687.000	110.00	22.000
59	6:51: 0	3.600	703.000	110.00	16.000
60	6:54: 0	3.650	720.000	110.00	17.000
61	6:57: 0	3.700	739.000	110.00	19.000
62	7: 0: 0	3.750	754.000	110.00	15.000
63	7: 3: 0	3.800	773.000	110.00	19.000
64	7: 6: 0	3.850	785.000	110.00	12.000
65	7: 9: 0	3.900	799.000	110.00	14.000
66	7:12: 0	3.950	812.000	110.00	13.000
67	7:15: 0	4.000	824.000	110.00	12.000
68	7:18: 0	4.050	832.000	110.00	8.000

WESTERN TESTING CO. INC.