

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  
Purchaser none  
Operator Contact Person Bob G. 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

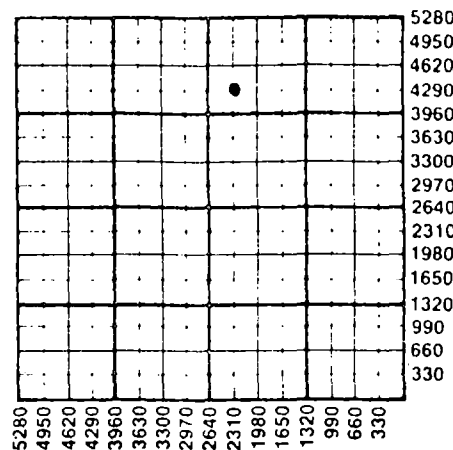
WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
10/8/88 10/12/88 12/27/88  
Spud Date Date Reached TD Completion Date  
3410'  
Total Depth PBTD  
Amount of Surface Pipe Set and Cemented at 254 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. 15-185-22,547  
County Stafford  
SW NW NE Sec 3 Twp 21 Rge 11 East  
4290 Ft North from Southeast Corner of Section  
2310 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Lease Name Snider Well # 1-D  
Field Name Snider  
Producing Formation none  
Elevation: Ground 1771' KB 1776'

Section Plat



WATER SUPPLY INFORMATION  
Disposition of Produced Water: Disposal  
Docket # Repressuring

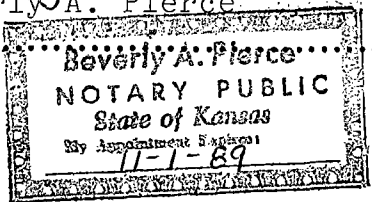
Questions on this portion of the ACO-1 call:  
Water Resources Board (913) 296-3717  
Source of Water:  
Division of Water Resources Permit #  
 Groundwater Ft North from Southeast Corner (Well) Ft West from Southeast Corner of Sec Twp Rge East West  
 Surface Water Ft North from Southeast Corner (Stream, pond etc) Ft West from Southeast Corner Sec Twp Rge East West  
100' south of location  
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 1/6/89

Subscribed and sworn to before me this 6th day of January 1989.  
Notary Public 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 [checked] SWD/Rep [checked] NGPA  
Plug [ ] Other [ ]  
STATE CORPORATION COMMISSION  
JAN 17 1989  
Form ACO-1 (5-86)

CONSERVATION DIVISION  
Wichita, Kansas  
1-17-89

Sec 3 Twp 21 Rge 11 W

SIDE TWO

Operator Name Pendulum Petroleum Lease Name Snyder Well # 1-D

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample
Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Name	Top	Bottom
Kansas City	3069	- 3269

**CASING RECORD**  New  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 pipe	12 1/4"	8-5/8"	20#	254'	60/40 Poz	175	3% cc; 2% gel
Production		4-1/2"	10.5#	3409'	50/50 Poz	175	

**PERFORATION RECORD** | **Acid, Fracture, Shot, Cement Squeeze Record**  
Shots Per Foot | Specify Footage of Each Interval Perforated | (Amount and Kind of Material Used) | Depth

4	3210 - 3220	Acid - 1750 gal. 28% NE	3220
4	3158 - 3163	Acid - 1500 gal. 15% NE	3163
4	3114 - 3118		

**TUBING RECORD** Size 2 3/8" Set At 3102 Packer at 3105 | Liner Run n/a  Yes  No

Date of First Production none | Producing Method n/a  Flowing  Pumping  Gas Lift  Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
n/a	n/a Bbls	n/a MCF	Bbls	CFPB	

METHOD OF COMPLETION

Production Interval

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

ORIGINAL



15.185.22547.0000

REMIT TO:

P.O. BOX 651046  
DALLAS, TX 75265

HALLIBURTON SERVICES

INVOICE

A Halliburton Company

INVOICE NO.	DATE
763036	10/13/1988

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
SNIDER D-1		STAFFORD		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
GREAT BEND		ALLEN DRILLING		CEMENT PRODUCTION CASING		10/13/1988
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
675570	CRAIG D. BAZZLE			COMPANY TRUCK	66234	

PENDULUM PETROLEUM  
P O BOX 1088  
ARKANSAS CITY, KS 67005

DIRECT CORRESPONDENCE TO:  
SUITE 600  
COLORADO DERBY BUILDING  
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	22	MI	2.20	48.40
		1	UNT		
001-016	CEMENTING CASING PUMP CHARGE	3409	FT	990.00	990.00
		1	UNT		
12A	GUIDE SHOE - 4 1/2" 8RD THD.	1	EA	83.00	83.00
825.201					
40	CENTRALIZER 4-1/2" MODEL S-4	5	EA	41.00	205.00
807.93004					
593	3-WIPER L-D PLUG - 4 1/2"	1	EA	159.00	159.00
801.0373					
594	4 1/2" LATCH DOWN BAFFLE	1	EA	100.00	100.00
801.03734					
504-308	STANDARD CEMENT	88	SK	5.35	470.80
506-105	POZMIX A	87	SK	2.79	242.73
506-121	HALLIBURTON-GEL 2%	3	SK	.00	N/C
509-968	SALT	1500	LB	.052	78.00
507-153	CFR-3	110	LB	3.80	418.00
509-968	SALT	400	LB	.052	20.80
500-207	BULK SERVICE CHARGE	202	CFT	.95	191.90
500-306	MILEAGE	187.04	TMI	.70	130.93
INVOICE SUBTOTAL					3,138.56
DISCOUNT-(BID)					313.85-
INVOICE BID AMOUNT					2,824.71
*-KANSAS STATE SALES TAX					72.05
*-BARTON COUNTY SALES TAX					18.02
<b>RECEIVED OCT 18 1988</b>					
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$2,914.78

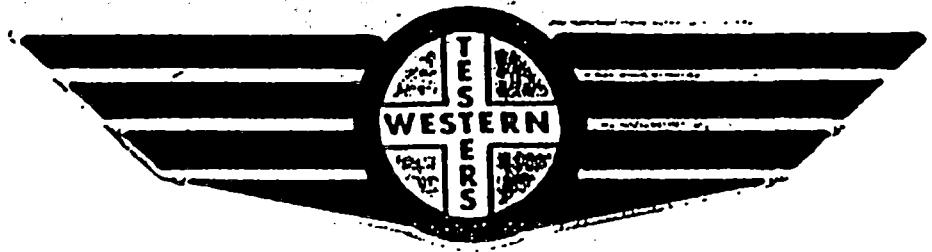
RECEIVED  
STATE CORPORATION COMMISSION  
JAN 17 1989  
CONSERVATION DIVISION  
Wichita, Kansas

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 15% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT

15.185.22547.0000

# FORMATION TEST REPORT

COMPANY PENDULUM PETROLEUM, INC. LEASE & WELL NO. SNIDER D-1 SEC. 3 TWP. 21S RGE. 11W TEST NO. 1 DATE 10/10/88



Home Office:

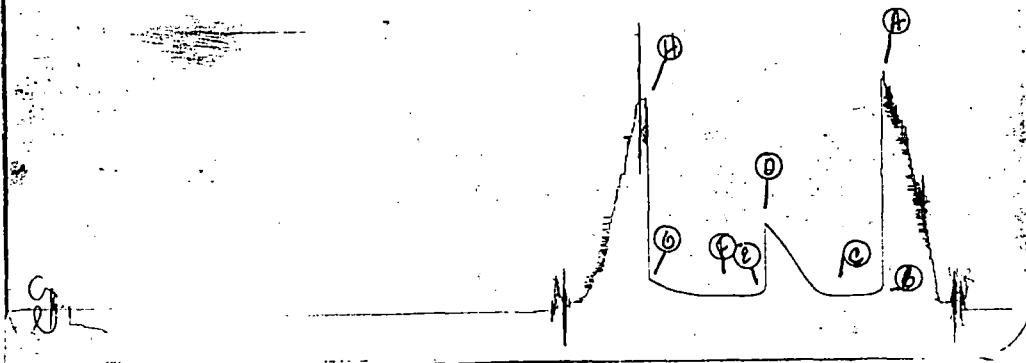
Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

JK # 14605

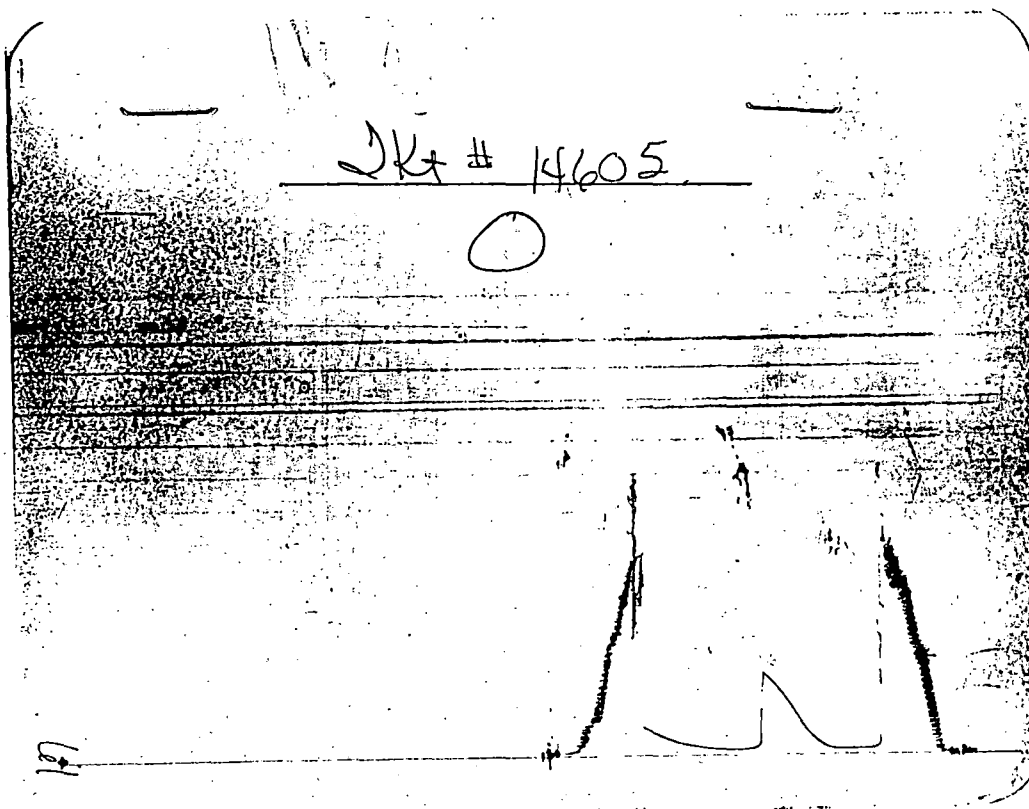
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Inside Recorder

JK # 14605

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Outside Recorder

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE : 10-10-88 TICKET : 14605  
CUSTOMER : PENDULUM PETROLEUM INC. LEASE : SNIDER  
WELL : #D-1 TEST: 1 GEOLOGIST :  
ELEVATION : FORMATION :  
SECTION : 3 TOWNSHIP : 21S  
RANGE : 11W COUNTY : STAFFORD STATE : KANSAS  
GAUGE SN# : 13552 RANGE : 4050 CLOCK : 12

INTERVAL FROM : 2398 TO : 2440 TOTAL DEPTH : 2440  
DEPTH OF SELECTIVE ZONE :  
PACKER DEPTH : 2393 SIZE : 6.63  
PACKER DEPTH : 2398 SIZE : 6.63  
PACKER DEPTH : SIZE :  
PACKER DEPTH : SIZE :

DRILLING CON. : ALLEN RIG 3  
MUD TYPE : LOW SOLIDS VISCOSITY : 37  
WEIGHT : 8.8 WATER LOSS (CC) : 13.6  
CHLORIDES (PPM) : 3500  
JARS-MAKE : WTC SERIAL NUMBER : 407  
DID WELL FLOW ? : NO 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 : 2369 FT I.D. inch : 3.80  
TEST TOOL LENGTH : 29 FT TOOL SIZE : 5.50  
ANCHOR LENGTH : 42 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 FH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW THROUGHOUT.  
BLOW COMMENT #2 : FINAL FLOW-NO BLOW.  
BLOW COMMENT #3 :  
BLOW COMMENT #4 :

RECOVERED : 10 FT OF: DRILLING MUD / SPECKS OF OIL ON TOP OF TOOL

Total Barrels Fluid = 0.14  
Total Fluid Prod Rate = 3.37 BFPD  
Indicated Wtr Rate = 0.34 BWPD

REMARK 1 : TIGHT HOLE !!  
REMARK 2 :  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 7:30 PM TIME STARTED OFF BOTTOM : 10:30 PM  
WELL TEMPERATURE : 92  
INITIAL HYDROSTATIC PRESSURE (A) 1214  
INITIAL FLOW PERIOD MIN: 30 (B) 81 PSI TO (C) : 81  
INITIAL CLOSED IN PERIOD MIN: 60 (D) 467  
FINAL FLOW PERIOD MIN: 30 (E) 83 PSI TO (F) : 83  
FINAL CLOSED IN PERIOD MIN: 57 (G) 169  
FINAL HYDROSTATIC PRESSURE (H) 1121

WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report  
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COMPANY : PENDULUM PETROLEUM INC.  
RIG : STAFFORD-KANSAS  
FIELD : SNIDER  
WELL : #D-1  
DATE : 10-10-88  
GAUGE NO : 13552

OPERATIONAL COMMENTS

TIGHT HOLE !!

COM  
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DATA  
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COMPANY : PENDULUM PETROLEUM INC.  
 WELL : #D-1  
 GAUGE # : 13552  
 DATE : 10/10/88

FIELD : SNIDER  
 JOB # : 14605  
 DEPTH : 2440  
 TEST : TIGHT HOLE !!

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW					
2	7:30:0	0.000	81.000	92.00	0.000
3	7:34:59	0.083	81.000	92.00	0.000
4	7:40:0	0.167	81.000	92.00	0.000
5	7:45:0	0.250	81.000	92.00	0.000
6	7:49:59	0.333	81.000	92.00	0.000
7	7:55:0	0.417	81.000	92.00	0.000
8	8:0:0	0.500	81.000	92.00	0.000
INITIAL SHUT-IN					
9	8:3:0	0.550	81.000	92.00	0.000
10	8:6:0	0.600	81.000	92.00	0.000
11	8:9:0	0.650	82.000	92.00	1.000
12	8:12:0	0.700	84.000	92.00	2.000
13	8:15:0	0.750	90.000	92.00	6.000
14	8:18:0	0.800	98.000	92.00	8.000
15	8:21:0	0.850	115.000	92.00	17.000
16	8:24:0	0.900	136.000	92.00	21.000
17	8:27:0	0.950	160.000	92.00	24.000
18	8:30:0	1.000	193.000	92.00	33.000
19	8:33:0	1.050	225.000	92.00	32.000
20	8:36:0	1.100	260.000	92.00	35.000
21	8:39:0	1.150	296.000	92.00	36.000
22	8:42:0	1.200	325.000	92.00	29.000
23	8:45:0	1.250	357.000	92.00	32.000
24	8:48:0	1.300	384.000	92.00	27.000
25	8:51:0	1.350	412.000	92.00	28.000
26	8:54:0	1.400	436.000	92.00	24.000
27	8:57:0	1.450	457.000	92.00	21.000
28	9:0:0	1.500	467.000	92.00	10.000
FINAL FLOW					
29	9:1:0	1.517	83.000	92.00	-384.000
30	9:4:59	1.583	83.000	92.00	0.000
31	9:10:0	1.667	83.000	92.00	0.000
32	9:15:0	1.750	83.000	92.00	0.000
33	9:19:59	1.833	83.000	92.00	0.000
34	9:25:0	1.917	83.000	92.00	0.000
35	9:30:0	2.000	83.000	92.00	0.000
FINAL SHUT-IN					
36	9:33:0	2.050	83.000	92.00	0.000
37	9:36:0	2.100	83.000	92.00	0.000
38	9:39:0	2.150	83.000	92.00	0.000
39	9:42:0	2.200	83.000	92.00	0.000
40	9:45:0	2.250	84.000	92.00	1.000
41	9:48:0	2.300	85.000	92.00	1.000
42	9:51:0	2.350	87.000	92.00	2.000
43	9:54:0	2.400	91.000	92.00	4.000
44	9:57:0	2.450	95.000	92.00	4.000
45	10:0:0	2.500	99.000	92.00	4.000
46	10:3:0	2.550	104.000	92.00	5.000
47	10:6:0	2.600	109.000	92.00	5.000
48	10:9:0	2.650	115.000	92.00	6.000

COMPANY : PENNSYLVANIA PETROLEUM INC.

FIELD : SNIDER

WELL : #D-1

JOB # : 14605

GAUGE # : 13552

DEPTH : 2440

DATE : 10/10/88

TEST : TIGHT HOLE !!

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	10:12:0	2.700	121.000	92.00	6.000
50	10:15:0	2.750	132.000	92.00	11.000
51	10:18:0	2.800	142.000	92.00	10.000
52	10:21:0	2.850	153.000	92.00	11.000
53	10:24:0	2.900	163.000	92.00	10.000
54	10:27:0	2.950	169.000	92.00	6.000

WESTERN TESTING CO. INC.