

McCLAIN #1
C SE NE
Sec 18-4S-14E
Nemaha County, Kansas

PENDLETON LAND AND EXPLORATION, INC.

Cities Service Farm-In

Geologist on well: Paul Laird

Elev: 1284' GL, 1288' KB

Contractor: Silverado Drilling Rig #10

11/30/81 To move in rotary tools today.
12/01/81 MIRT.
12/02/81 Cont MIRT.
12/03/81 Prep to spud. LT 24 hrs. : 22 3/4 hrs. RU, 1 1/2 hrs. drill
rat hole.
12/04/81 @ 265', cementing surf csg. Spud @ 10:30 a.m. 12/03/81. Set
8 5/8" 20# csg @ 261'. Cmted w/ 250 sx com, 2% CaCl. LT 20 1/2 hrs.:
6 hrs. work on pump, 5 hrs. rig check and conn, 3 hrs. circ,
4 hrs. cond hole, 3/4 hrs. trip, 1 1/2 hrs. run surf csg.
12/05/81 @ 500'. LT 21 3/4 hrs.: 13 hrs. WOC, 1 hr. drill plug, 1/2 hr.
repair derrick line, 1 hr. trip, 6 1/2 hrs. work on pump. PD @ 7:00 a.m.
12/06/81 @ 1313', making bit trip. LT 13 3/4 hrs.: 2 hrs. trip, 6 hrs. /12/05.
pump repairs, 1 1/2 hrs. mix mud, 2 1/2 hrs repairs, 2 hrs. rig check
and conn. MW 9.3, vis 32. Bit #1 - out @ 1313', cut 1048' in
11 1/2 hrs. Slope test: 2° @ 1313'.
12/07/81 @ 1735'. LT 4 1/2 hrs.: 2 hrs. bit trip, 2 1/2 hrs. rig check and
conn. MW 9.5, vis 38. Bit #2 - 19 1/2 hrs.
12/08/81 @ 2100'. LT 7 1/2 hrs.: 4 3/4 hrs. trip, 1 3/4 hrs. rig check,
jet and conn, 1 hr. work on chain. MW 9.4, vis 38. Bit #4 -
1 3/4 hrs. Bit #3 out @ 2042', cut 288' in 14 hrs. Slope test
@ 2042' - 2°. Cher 1838 (-550).
12/09/81 @ 2510'. LT 2 1/2 hrs - rig check, jet and conn. MW 9.3, vis 34,
Bit #4 - 21 3/4 hrs.
12/10/81 @ 2646'. LT 18 1/2 hrs.: 2 hrs. trip, 15 1/2 hrs. work on pump,
3/4 hrs. wash down, 1/2 hr. rig check and conn. MW 9.3, vis 33.
Bit #4 - 27 1/2 hrs.

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- 12/11/81 Ø @ 2860'. LT 5½ hrs.: 1½ hrs. rig check, jet and conn, ½ hr. repairs, 3½ hrs. CFS. Vis 35, wt 9.3. Bit #4 - 46 hrs. Hunton 2846 (-1558) no shows.
- 12/12/81 Ø @ 3150'. LT 7½ hrs.: 1½ hrs. rig check and conn, ½ hr. jet, 5½ hrs. CFS. Bit #4 - 62½ hrs. Vis 37, MW 9.2.
- 12/13/81 Ø @ 3385'. LT 5 3/4 hrs.: 1½ hrs. rig check, jet and conn, 2 hrs. circ, 1½ hrs. lost circ, 1 hr. WOO. Bit #4 - 79½ hrs. MW 8.8, vis 39.
- 12/14/81 @ 3501', prep to run DST #1 3428-3501. LT 11½ hrs.: 1 hr. jet and conn, 3½ hrs. circ, 3½ hrs. prep mud for test, 1½ hrs. short trip, 1 3/4 hrs. wait on tester. Bit #4 - 92 hrs. Vis 42, MW 8.9. Sample tops: Maq 3431 (-2143), Viola 3493 (-2205).
- 12/15/81 @ 3501'. 7:00 A.M. coming out of hole with test. LT 24 hrs: all company time for DST #1. DST #1 3428-3501. Bit #4 - 92 hrs. Rec 2960' oil. No water.
- 12/16/81 Ø @ 3558'. Waiting on orders. LT 24 hrs.: 16 hrs tripping, 3 hrs core 60', 2 hrs reaming hole, 3 hrs work on pump.
- 12/17/81 Ø @ 3614'. Making a bit trip after coring. LT 17½ hrs.: 16½ hrs. for bit trip, 1 hr to circ. Bit #4 - 92 hrs.
- 12/18/81 Ø @ 3728'. Simpson 3710 (-2422), 115' high to Woods #1 Bailey (34-4S-13E). Show of oil, going to test. LT 11½ hrs: 7 hrs trip, 2½ hrs ream, 3/4 hr rig check & conn, 1hr for pump. Vis 39, MW 9.1, water loss 8.2. Bit #5 - 12-3/4 hrs.
- 12/19/81 Ø @ 3728. Thawing out. LT 22 hrs: 2 hrs circ, 9 hrs wait on test, 3 hrs DST#2, 8 hrs for trip, 1 hr for kelly. Bit #5 - 14-3/4 hrs. DST#2 3707-3728/Upper Simpson Sand/30"60"60"60". Weak blow thruout. Rec 280' oil, 34° API, 60° F. Rec 80' MW, 900 ppm CL. ISIP 1305, IFP 23-47, FSIP 1293, FFP 71-154.
- 12/20/81 Ø @ 3728. On bottom. LT 24 Hrs: thawing frozen stem pipe.
- 12/21/81 Ø @ 3744'. Mixing mud. LT 22½ hrs: 3 hrs pump repairs, 2 hrs to thaw kelly, 10¼ hrs to trip, ½ hr for rig check, 2 hrs to circ & cond hole, 3½ hrs DST #3. Bit #5 - 16½ hrs. Prep to drill ahead. DST #3 3730-3744/Main Simpson/Sand/30"60"60"60". Strong blow. Rec 1930' SW, 1200 ppm CL, trace of oil on top. IFP 71-428, FFP 476-808, ISIP 1317, FSIP 1305. (12/21/81 DST #1/3428-3501/Viola/30"60"90"60". Rec 240' SMO, 2720' FO, 28° API, NW. IFP 103-389, FFP 435-887, SIP 1226-1226.)
- 12/22/81 TD 3800'. Coming out of hole to log. Waiting on loggers. LT 20 hrs: 5 hrs trip, 5 hrs mix mud, 3 hrs wash down pipe, 2 hrs CFS, 3 hrs cond hole, 1 hr pump. Vis 45, MW 8.9. Bit #5 - 22½ hrs. Top of Granite Wash 3778', top of Granite 3799'.
- 12/23/81 @ TD 3800'. Doing porosity check. LT 24 hrs: 2 hrs for trip, 10 hrs wait on loggers, 11 hrs wait on water, 1 hr for porosity check. Vis 45, MW 9.3. Taking velocity survey to run production casing.
- 12/24/81 Production casing set on 12/23/81. Details to follow.
Drop from report pending MICT.
- Production csg information: RTD 3800'. On 12/23/81, ran 3793.19' 5½" 15.5# csg. Ran 6" swirl type guide shoe, 22.01' shoe jt and 109 jts 5½" csg. Ran insert float and 20 centralizers. Used 500 gal chem flush, 50 sx class A cmt, 150 sx RFC cmt, and 2 sx cello flakes (during 1st half of cmtng). Due to freezing temp, had some difficulty circ cmt, approx 800' cmt in hole to drill out. Cmt finished @ 11:30 p.m. 12/23/81.

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1/01/81 WOCT. Dowell ran wireline, tagged cmt in pipe @ 3770'.
Estd 800' cmt in pipe reported on 12/24/81 was in error.
Indicated cementing problem was apparently only a faulty
truck gauge which recorded 20 bbls of flush water less than
actually pumped.

PETRO-LEWIS CORPORATION DRILLING REPORT

January 30, & 31, 1982

February 1, 1982

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PLC-OPERATED DRILLING & COMPLETION

Mid-Continent Region

McCLAIN #1

SE/4 NE/4

Sec. 18, T4S-R14E

Nemaha County, KS

Wildcat Field

TD: 3800'

1/30/82 WO comp equip

thru TCTD: 0

2/1/82

Permanent Datum: GROUND LEVEL, Elev.: 1284
Log Measured From KB 4 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 1288
D.F. ---
G.L. 1284

Date	Run No.	Depth-Driller	Depth-Logger	Btm. Log Interval	Top Log Interval	Casing-Driller	Casing-Logger	Bit Size	Type Fluid in Hole	Dens.	Visc.	pH	Fluid Loss	Source of Sample	Rm @ Meas. Temp.	Rmf @ Meas. Temp.	Rmc @ Meas. Temp.	Source: Rmf	Rmc	Rm @ BHT	Circulation Stopped	Logger on Bottom	Max. Rec. Temp.	Equip.	Location	Recorded By
12-22-81	ONE	3800	3790	3789	1200	8 5/8@251	261	7 7/8	CHEMICAL	8.9	46	10.0	8.0 ml	MUDPIT	3.59 @60 °F	1.28 @60 °F	---	M	---	2.03 @106 °F	0800	12:30	106 °F	7747	WICH	CMC
						@							ml		2.03 @106 °F	0.725 @106 °F	@		@	@			°F			
						@							ml		°F	°F	@		°F	@			°F			
						@							ml		°F	°F	@		°F	@			°F			

OLD HERE The well name, location and borehole reference data were furnished by the customer.

N NO.		ONE							
vice Order No.		251956				Type Log	Depth		
d Level		FULL							
nity, PPM CL.		1000							
ed - F.P.M.		30							
EQUIPMENT DATA									
is. Panel		1180				REMARKS:			
is. Cart.		648							
is. Skid.		1111							
is. Sonde		234							
is. Source		3182							
is. Calibrator		2857							
jt. Panel		196							
jt. Cart.		3630							
jt. Source		1437							
jt. Calibrator		565							
Cart.		1149							
morizer Panel		590							
e Recorder (TTR)		---							
yth Encoder (DRE)		---							
ssure Wheel (CPW)		---							
utralizers: er Spring, ndoffs, ne, or None	Type	---							
	No.	---							
	S. O. — Inches	---							
LIBRATION DATA									
GR	BKG. CPS	136							
	Source CPS	526							
	Sens. - Cal	157							
	T. C. - Cal	6							
horth Spacing - Before Log		RATIO							
ong Spacing - Before Log		2.21							
horth Spacing - After Log		RATIO							
ong Spacing - After Log		2.21							
D1 — Before Log		343.2							
D2 — Before Log		678.4							
D1 — After Log		343.2							
D2 — After Log		678.4							

[illegible]

