

CHRONOLOGICAL DRILLING RECORD

Elevation: 2286 DF
2288 RB

Date of Report	Total Depth	Description of Work Performed
10-1-64		Location by Ness County engineer: 1980' FSL and 510' FWL, Section 30-19-21W, Ness County, Kansas. Peel Brothers, Inc., contractor. Job Order 9-1571956.
10-2/4-64		Levelling location, digging pits.
10-5/6-64		MI, RURT.
10-7-64	511'	Spudded 10-6-64 at 9:45 AM. Drilled to 511', ran 22 jts. of 8-5/8" 28# 8-V thd. "C" grade surface casing at 508' cemented with 250 sx 50-50-Pozmix 3% HA-5, 50 sx common 3% HA-5; cement circulated. Plug down at 9:00 PM.
10-8-64	2339	Drilling; 1/4° at 1000 and 1505'. Native mud. <u>Elevation</u> 2286 DF, 2288 RB. Anhydrite 1505-30'.
10-9-64	2807	Drilling (ls); 1/4° at 2400'. Native mud.
10-10-64	3210	Drilling (sh); vis. 41, wt. 10.3.
10-11-64	3580	Drilling (ls); 1/2° at 3004', 0° at 3500'. Wt. 10.2, vis. 38.
10-12-64	3860	Drilling (ls); wt. 10.2, vis. 40, WL 16 cc. Top Anhydrite 1495' cor: Top Heebner 3751 (-1462), Toronto 3769 (-1480), Lansing 3800 (-1511); 4' low to Moore "D" #1.
10-13-64	4090	Drilling (ls); wt. 10.2, vis. 41, WL 11 cc.
10-14-64	4310	Drilling (ls); wt. 10.2, vis. 43, WL 12.6 cc.
10-15-64	4384	Drilling (ls & sh); wt. 10.2, vis. 48, WL 9 cc. <u>DST #1 4304-19</u> , Ft. Scott, 10-30-90-30, good blow throughout, recovered 390' gas in drill pipe, 95' slightly oil and gas-cut drilling mud; ISIP 1275#, IFP 27#, FFP 48#, FSIP 1120#. Top Ft. Scott 4302 (-2013); 9' low to Humburg #1 and 4' low to Moore "D" #1.
10-16-64	4410	Top Miss. 4400 (-2111), 5' low to Humburg "A" #2 and 15' low to Moore "D" #1. Lost circ. for 6 hrs. <u>DST #2 4402-10</u> , Miss., 10-30-90-30, fair blow throughout, recovered 240' gas in drill pipe, 60' gassy oil grav. 39°, 120' slightly muddy oil and 60' muddy oil; ISIP 1332#, IFP 50#, FFP 105#, FSIP 1299#.
10-17-64	4425 RTD	<u>DST #3 4410-25</u> , Miss., 5-30-30-30, strong blow throughout, recovered 480' gas in drill pipe, 900' free oil, 39° gravity, 300' muddy oil; ISIP 1340#, IFP 121#, FFP 416#, FSIP 1275#. RTD 4425, wt. 9.8, vis. WL 7.4 cc. Ran Schlumberger Laterolog survey, 4426'. Running 4 1/2" cc.
10-18-64	4425	Ran 98 jts. 4 1/2" OD 9.5# J-55 "B" grade casing (Brand "A" #3) and 38 4 1/2" OD 9.5# J-55 "A" grade casing (total 136 jts.), at 4424' cemented with 100 sacks salt saturated common cement; good circulation throughout. Reciprocated pipe while cementing. Plug down at 11:20 AM. Use 5 - 4 1/2" B&W centralizers at 4295, 4328, 4352, 4382 and 4417, and 3 - B&W wipers at 4397, 4417 and 4421. Shoe jt. 13.59'. WOC.
10-19/20-64		WOC.
10-21-64		Move in spudder today.
10-22-64	4425 TD	TD 4425, 4 1/2" casing at 4424; ran correlation collar log 4412-3900'.
10-22-64	4412 PBT	Cleaned out cement 4404-4412; PBT 4412. Perf. (McCullough) 4402-06, Miss., 12 shots. Ran bailer, bailed 4.15 gals. mud and cement in 15 mins., 1.65 gals. mud and cement in 15 mins., 10.8 gals. oil and 5.8 gals. water in 12 hrs., 5.8 gals. oil, 215 gals. water in 30 mins.
10-23-64		Water from yesterday checked; analysis showed: H ₂ S none, chlorides 56,500, pH 10.0, sp. gr. 1.065, sulfates none, filtrate water. Bail 3.5 gals. oil and no water/hr., 3 hrs. Acidized 4402-06, Miss., with 250 gals. 7 1/2% Dowell BDA, 3025 gals. salt water, 159 mins., pressure

CHRONOLOGICAL DRILLING RECORD

Page 2

Date of Report	Total Depth	Description of Work Performed
10-23-64 (Contd.)		1750#-1500#-500# apsd - 0# in 2 mins., through casing; injection rate after break 1 bbl./min., 78 bbls. load water. Swabbed down through casing, swabbed 129 bbls. fluid in 5 hrs. (56 bbls. oil and 73 bbls. water) (5 bbls. short of load). 3662' fluid in hole; ran bailer, 12 hrs.
10-24-64		3662' fluid in hole, 12 hrs. Swabbed 121.68 bbls. oil, 5.35 bbls. water in 4 hrs., 0.35 bbl. water over load. Last hr. 22.07 bbls. oil and 1.16 bbls. water. Ran 138 jts. 2" EUE-8 rd. thd. J-55 tubing, pe nipple 3' (4396'), seating nipple at 4392.
10-25-64		Ran 175 - 3/4" x 25' Jones #2 rods (4375') and 1 - 4', 6' and 8' pony rod for a total of 4393'; 2" x 1 1/2" x 12' Pacific pump. Pumped 25.74 bbls. oil, 0.26 bbl. water, 3 hrs.
10-26-64		Pumped 129 bbls. oil, 4 bbls. water, 16 hrs., 40" - 18 SPM.
10-27-64		Pumped 60.5 bbls. oil, 2.5 bbls. water, 8 hrs. Shut down, tank room.
10-28-64		Shut down, tank room.
10-29-64		Shut down, treating out oil.
10-30/11-2-64		Shut down. Waiting on S. T.
11-3-64		Pumping pretest for State Test, 68 bbls. oil and 3 bbls. water in 9 h
11-4-64		<u>State Physical Potential</u> : Pumped 61.24 bbls. oil, 2.56 bbls. oil, 8 for physical potential of 184 bbls. oil, 7.6 bbls. water, 24 hrs. Allowable 4 bbls./day.

CC: Wichita Geol. Dept.

OXY USA INC., MOORE "C" #2
NESS, KS WSN: 1303765

- 4/26/91 PR OPNS: SWAB TESTING;
FORM: FT. SCOTT / MISSISSIPPI 3404-4406';
PBSD 4,412; MTD 4,425; PERFS(MD) 3,404; - 4,406; DOL 1;
*** FIRST REPORT ***;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
* AFE TO TEST FT. SCOTT * MIRU. POOH W/ TUBULARS. SDON.
CMIC G. WAGNER; DAILY COST \$ 1,108; CUM COST \$ 1,108;
- 4/27/91 PR OPNS: SWAB TESTING;
FORM: FT. SCOTT / MISSISSIPPI 4304-4406';
PBSD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 2;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
RU MERCURY WIRELINE. PERFORATED FT SCOTT 4311-20' AND
4304-09' W/ 4 SPF. RIH W/ 4-1/2" RBP AND PACKER ON 2-3/8"
TUBING. SET RBP @ 4338' AND PACKER @ 3285'. RIH W/ SWAB.
FL @ 1700'. SWABBED HOLE DRY. NO FLUID ENTRY. TESTED TBG
AND TOOLS. SPOTTED ACID ON PERFS. RESET PACKER @ 3285'.
TREATED W/ 500 GALS 15% NE-FE ACID. MAX PRESSURE 800 PSI.
MAX RATE 2 BPM. ISIP 450 PSI, 250 PSI AFTER 15 MIN. TOTAL
LOAD TO RECOVER 65 BBL. RIH W/ SWAB. FL @ SURFACE.
SWABBED DOWN 27 BBL.
1ST HR: 3.2 BBL TF, 2% OIL.
2ND HR: 1.3 BBL TF, 5% OIL.
3RD HR: 1.0 BBL TF, 10% OIL.
4TH HR: 1.25 BBL TF, 15% OIL.
SWABBED BACK 33.75 BBL OF LOAD. SDON.
NO WORK 4/28/91 AND 4/29/91.
CMIC G. WAGNER; DAILY COST \$ 6,211; CUM COST \$ 7,319;
- 4/30/91 PR OPNS: PREPARING TO REACIDIZE;
FORM: FT. SCOTT / MISSISSIPPI 4304-4406';
PBSD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 5;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
1700' FILLUP, 10% OIL. SWABBED DOWN 10.85 BBL.
1ST HR: 2.5 BBL TF, 35% OIL.
2ND HR: 1.67 BBL TF, 50% OIL.
3RD HR: 1.67 BBL TF, 60% OIL.
SHUT DOWN DUE TO WEATHER.
CMIC G. WAGNER; DAILY COST \$ 550; CUM COST \$ 7,869;
- 5/1/91 PR OPNS: RUNNING RODS;
FORM: FT. SCOTT / MISSISSIPPI 4304-4406';
PBSD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 6;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:

OXY USA INC., MOORE "C" #2
NESS, KS WSN: 1303765

OVERNIGHT FILLUP 1700', 700' OIL. RU SERFCO. RETREATED FT. SCOTT 4304-09' AND 4311-20' W/ 1500 GALS 15% NE-FE ACID @ 4 BPM AT 1050 PSI. ISIP 350 PSI, 250 PSI AFTER 15 MIN. TOTAL LOAD TO RECOVER 55 BBL. SWABBED BACK 22 BBL OF LOAD. PULLED TUBING AND TOOLS. RAN PRODUCTION TUBING. SDON. CMIC G. WAGNER; DAILY COST \$ 3,017; CUM COST \$ 10,886;

5/2/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT / MISSISSIPPI 4304-4406';
PBDT 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 7;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
FINISHED RUNNING RODS AND PUMP. PWOP.
CMIC G. WAGNER; DAILY COST \$ 339; CUM COST \$ 11,225;

5/3/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT / MISSISSIPPI 4304-4406';
PBDT 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 8;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
WELL TEST : 3 BO - 343 BWPD. NPO. 74" X 16 X 1-3/4".
CMIC G. WAGNER; CUM COST \$ 11,225;

5/4/91 PR OPNS: TESTING;
FORM: FT. SCOTT / MISSISSIPPI 4304-4406';
PBDT 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 9;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
WELL TEST: 7 BO & 339 BWPD. NPO. 74" X 16 X 1-3/4".
NO TESTS 5/5/91 AND 5/6/91.
CMIC G. WAGNER; CUM COST \$ 11,225;

5/7/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT / MISSISSIPPI 4304-4406';
PBDT 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 12;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
WELL TEST: 7 BO & 339 BWPD. NPO. 74" X 16 X 1-3/4".
CMIC G. WAGNER; CUM COST \$ 11,225;

5/8/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT / MISSISSIPPI 4304-4406';
PBDT 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 13;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
WELL TEST: 7 BO & 339 BWPD. NPO. 74" X 16 X 1-3/4".
CMIC G. WAGNER; CUM COST \$ 11,225;

OXY USA INC., MOORE "C" #2
NESS, KS WSN: 1303765

- 5/9/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT / MISSISSIPPI 4304-4406';
PBSD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 14;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
NO TEST.
CMIC G. WAGNER; CUM COST \$ 11,225;
- 5/10/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT / MISSISSIPPI 4304-4406';
PBSD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 15;
*** FINAL REPORT ***;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
WELL TEST: 7 BO & 339 BWPD. NPO. 74" X 16 X 1-3/4".
* AFE TO TEST FORT SCOTT *
CMIC G. WAGNER; CUM COST \$ 11,225;
- 6/19/91 PR OPNS: WAITING ON CEMENT;
FORM: FT. SCOTT / MISSISSIPPI 4304-4406';
PBSD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 55;
*** FIRST REPORT ***;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
* RECOMMENDATION TO POLYMER / CEMENT SQUEEZE *
MIRU EXPRESS WELL SERVICE. PULLED RODS, PUMP AND TUBING.
RIH W/ 4-1/2" RTTS ON 2-3/8" TUBING. LOADED ANNULUS W/
50 BBL OIL. SET RTTS @ 4291'. PRESSURED ANNULUS TO
500 PSI. TOOK INJECTION RATE DOWN TUBING OF 2 BPM @ 600
PSI. PUMPED 2000 GALS MATROL POLYMER @ 2 BPM @ 900 PSI,
FOLLOWED BY 5 BBL DIESEL FUEL, 50 SX MOC CEMENT, 5 BBL
DIESEL AND 37 BBL CRUDE OIL. MOC PUMPED AT INITIAL RATE
OF 2 BPM @ 600 PSI. DECREASED TO 1/2 BPM @ 900 PSI AND
INCREASED TO 1 BPM @ 1150 PSI DURING OIL FLUSH. ISIP
850 PSI, 0 PSI AFTER 10 MIN. BLED DOWN ANNULUS. RDMO.
CMIC G. WAGNER; DAILY COST \$ 6,442; CUM COST \$ 6,442;
- 6/25/91 PR OPNS: SWAB TESTING;
FORM: FT. SCOTT / MISSISSIPPI 4402-4406';
PBSD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 61;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
MIRU EXPRESS WELL SERVICE. RIH W/ SWAB.
1ST HOUR: 18.36 BF, 26% OIL.
2ND HOUR: 15.00 BF, 29% OIL.
3RD HOUR: 10.85 BF, 20% OIL.
4TH HOUR: 14.20 BF, 13% OIL.
5TH HOUR: 11.70 BF, 10% OIL.

OXY USA INC., MOORE "C" #2
NESS, KS WSN: 1303765

6TH HOUR: 10.80 BF, 9% OIL.
SWABBED BACK 80.94 BBL TOTAL FLUID. SDON.
CMIC E. RAYMER; DAILY COST \$ 1,092; CUM COST \$ 7,534;

6/26/91 PR OPNS: SWAB TESTING;
FORM: FT. SCOTT / MISSISSIPPI 4402-4406';
PBD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 62;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
RELEASED RTTS PACKER. RU HALLIBURTON TO BACKWASH.
BACKWASHED TO TD 4403'. RAN 80' OF TUBING TO 4403'.
PULLED OUT 49' OF TUBING AND RESET RTTS AT 4354'. RU TO
SWAB AT 11:00 AM 6/25/91. USED 55 BBL OF CRUDE OIL TO
LOAD ANNULUS AND BACKWASH. PRESSURED ANNULUS TO 500 PSI
AFTER SEATING RTTS AT 4354', HELD OK. BLED DOWN ANNULUS
AND SWAB TESTED.
1ST HR: 13.36 BF, 15% OIL.
2ND HR: 13.36 BF, 15% OIL.
3RD HR: 12.50 BF, 9% OIL.
4TH HR: 12.50 BF, 11% OIL.
SHUT DOWN AT 4:30 PM 6/25/91.
CMIC E. RAYMER; DAILY COST \$ 2,156; CUM COST \$ 9,690;

6/27/91 PR OPNS: PREPARING TO PWOP;
FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 63;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
TAGGED FLUID AT 1700'. PULLED TBG AND RTTS PACKER. RAN
TUBING WITH TUBING ANCHOR AND TUBING PUMP. RAN RODS AND
HUNG WELL ON. PWOP AT 2:00 PM.
CMIC E. RAYMER; DAILY COST \$ 712; CUM COST \$ 10,402;

6/28/91 PR OPNS: PULLING PUMP;
FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 64;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
PUMP PROBLEMS. WILL PULL PUMP AND RODS TO INVESTIGATE.
CMIC E. RAYMER; DAILY COST \$ 712; CUM COST \$ 10,402;

6/29/91 PR OPNS: TESTING TUBING;
FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 65;
CASING 4.5; @ 4,424;

OXY USA INC., MOORE "C" #2
NESS, KS WSN: 1303765

ACTIVITY SUMMARY:

RACK TESTED TUBING, 21 JTS BAD.
CMIC E. RAYMER; CUM COST \$ 10,402;

7/2/91 FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBSD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 68;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
NO WORK.
CMIC E. RAYMER; CUM COST \$ 10,402;

7/3/91 FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBSD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 69;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
CLEANING GUNBBL.
CMIC E. RAYMER; CUM COST \$ 10,402;

7/5/91 FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBSD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 71;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
WELL TEST: 6 BO & 286 BWPD. NPO. 74" X 16 X 1-3/4".
NO TEST ON JULY 4TH HOLIDAY.
CMIC E. RAYMER; CUM COST \$ 10,402;

7/6/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBSD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 72;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
WELL TEST: 6 BO & 263 BWPD. 74" X 16-1/2 X 1-3/4".
NO TESTS 7/7/91 AND 7/8/91.
CMIC E. RAYMER; CUM COST \$ 10,402;

7/9/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBSD 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 75;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
WELL TEST: 6 BO & 259 BWPD.
CMIC G. WAGNER; CUM COST \$ 10,402;

OXY USA INC., MOORE "C" #2
NESS, KS WSN: 1303765

7/10/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBDT 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 76;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
TESTED 7 BO & 259 BWPD.
CMIC E. RAYMER; CUM COST \$ 10,402;

7/11/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBDT 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 77;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
WELL TEST: 7 BO & 259 BWPD. NPO. 74" X 16 X 1-3/4".
CMIC G. WAGNER; CUM COST \$ 10,402;

7/12/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBDT 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 78;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
WELL TEST: 7 BO & 259 BWPD. NPO. 74" X 16 X 1-3/4".
CMIC G. WAGNER; CUM COST \$ 10,402;

7/13/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBDT 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 79;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
WELL TEST: 7 BO & 259 BWPD. NPO. 74" X 16 X 1-3/4".
NO TESTS 7/14/91 AND 7/15/91.
CMIC G. WAGNER; CUM COST \$ 10,402;

7/16/91 PR OPNS: PUMP TESTING;
FORM: FT. SCOTT 4304-4309' , 4311-20'
MISSISSIPPI 4402-06';
PBDT 4,412; MTD 4,425; PERFS(MD) 4,304; - 4,406; DOL 82;
*** FINAL REPORT ***;
CASING 4.5; @ 4,424;
ACTIVITY SUMMARY:
WELL TEST: 7 BO & 259 BWPD. NPO. 74" X 16 X 1-3/4".
* RECOMMENDATION TO POLYMER / CEMENT SQUEEZE *
CMIC G. WAGNER; CUM COST \$ 10,402;

MOORE "C"

DECEMBER 1991

18th -

Pumped 500 gallons 28% disposal acid
down water line. TCTD \$979.00.

MOORE "C" #2

APRIL 1992

22nd -

Tubing leak. 7/8" box. 44 deep. TCTD
\$484.00.

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Moore "C" Well No. 2 County Ness State Kansas

Contractor Peel Bros Inc Date 10-7-64

Depth at 8 AM 511 4 PM 1350 Midnight 1780

Driller's 12-8A J. J. J. J. 8A-4P W. J. J. 4P-12 E. J. J.

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
311	670	Shale & Shells	1350	1505	Red Bed
670	945	Red Bed & Shells	1505	1530	Red Bed
945	1150	Sand	1530	1550	Shale & Shells
1150	1350	Shale & Shells			
			1495	1500	Anhy.
			1500	1505	Shale
			1505	1530	Anhy.

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
500	1/4	Syfo	1						
1000	1/4	Syfo	1						
1505	1/4	Syfo	1						
DRILL PIPE TRIPS			2						
DEPTH	REASON		2						
			2						
			3						
			3						
			3						

Size Hole 7 7/8 Pump Pressure Midnight 900 Drill Pipe Wt. Midnight 48000

Bit No. 1050-34 X Size 7 7/8 From 511 To

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks:

W.O.C. No. 201-1110

8A-4P Remarks: WOC 2hrs Drlg Plug @ 120 F.M.

Elev 2286 D.F.

4P-12 Remarks:

Service Rig. 4-1-61 Pit 1447.
Syfo @ 1505' 1/4"

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Moore "C" Well No. 2 County Ness State Kansas

Contractor Paul Bros Inc Date 10-9-64

Depth at 8 AM 2805 4 PM 2985 Midnight 3067

Driller's 12-8A Joe Winkler 8A-4P Carl Flanders 4P-12 E. Farmer

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
2660	2805	lime	2985	3067	Shale & shells
2805	2985	lime & shale			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
3004	1/2	Syfo	1	12:00	10.5	32		1092	Hulls
			1	2:00	10.5	30			
			1	6:00	10.5	30			
DRILL PIPE TRIPS			2						
DEPTH	REASON		2						
2660	Bit #4 in		2						
3067	Bit #5 OSC-J		3						
			3						
			3						

Size Hole 7 7/8 Pump Pressure Midnight 900 Drill Pipe Wt. Midnight 62,000

Bit No. 4 - 5 Size 7 7/8 From 2660 To

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks: OB Bit #4 @ 11:30 PM set shale pit 1000' fluid @ 2985
Mix 14ulls

8A-4P Remarks: CHK Rig Jet #1 pit

4P-12 Remarks: pull bit #4 on double. change drilling line

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Moore C Well No. 2 County Ness State Kansas

Contractor Pool Bros. Inc. Date 10-10-64

Depth at 8 AM 3210 4 PM 3360 Midnight 3460

Driller's 12-8A [Signature] 8A-4P [Signature] 4P-12 [Signature]

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
3067	3200	shale & lime	3360	3460	lime & shale
3210	3360	lime & shale			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	1:00	10.5	44		30x starch	100# Pans
			1	6:50	10.3	41		15x salt gel	5x Hu
			1						
			2	9:00	10.3	41		4 Mylsiel	
			2	1:00	10.3	39		4 Halls	
			2					4 200 seal	
			3	4:00	10.4	38		4 Mylsiel	3 52/4 Hcl
			3	8:30	10.3+	38		1 15/20 Seal	4 16/15
			3						

Size Hole 7 7/8 Pump Pressure Midnight 8.50 Drill Pipe Wt. Midnight 5,000
 Bit No. 5 Size 7 7/8 From 3067 To 3460

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks: Ran in hole with bit # 2 0:00 12:30
Set pits & mix mud

8A-4P Remarks: [Signature]

4P-12 Remarks: Service Rig. Trip on single string 11:15

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Moore "C" Well No. 2 County Ness State Kans

Contractor Paul Byers Inc Date 10-11-64
 Depth at 8 AM 3580 4 PM 3705 Midnight 3800
 Driller's 12-8A Joe Clarke 8A-4P Earl Flanders 4P-12 Off-Home

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
3460	3580	lime	3705	3800	Shale & lime
3580	3705	Lime Chalky			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT
3500	0	Synps

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1	1:00	10.3	37		45x	3 1/2 bu ch
1	4:00	10.3	38		65x	9 1/2 gal
1	6:00	10.2	38		25x	Marginal
2	8:00	10.3	36		4	Mylape
2	12:00	10.3	38	16.0	4	Salt gel
2				10 Calc DR	2	Marginal
3	3:30	10.24	37	16		
3	8:30	10.3	37			
3						

DRILL PIPE TRIPS

DEPTH	REASON

Size Hole 7 7/8 Pump Pressure Midnight _____ Drill Pipe Wt. Midnight _____
 Bit No. 6 Size 7 7/8 From 3463 To _____

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks: Run in hole with bit # 6 @ 12:45

Box d 3487.20
 string p 7486.16
 Diff 1.04 No Conv

8A-4P Remarks: OK Rig Jct Hole in #1 Pit Circ 1/2 hr to mix mud

1/2 hr Co Time WDR

4P-12 Remarks: Service Rig. Circ For Samples 7/4 hrs @ 3759.

3/4 hr Continue w/ D.P.

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Moore "C" Well No. 2 County Noss State Kansas

Contractor Paul Foss, Inc. Date 10-12-64
 Depth at 8 AM 4 PM 3960 Midnight 3995
 Driller's 12-8A Joe Walker 8A-4P Carl Flanders 4P-12 W. Farmer

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
3800	3960	lime	3960	3995	lime
3860	3960	lime			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	11:00	10.3	37	16	8 ss	Mulajel
			1					4 ss	Saltgel
			1	6:20	10.2	40			
DRILL PIPE TRIPS			2	8:50	10.2	39		10 Saltgel	2 Hulls
DEPTH	REASON		2	10:50	10.2	38		2 Mulajel	1 Can D.D.
3808	Bit #7		2	12:30	10.3	42	11	4 Mulajel	
3989	Bit #8		3	3:00	10.3	42	11	2	Mulajel
			3					4	50 Hulls

Size Hole 7 7/8 Pump Pressure Midnight _____ Drill Pipe Wt. Midnight _____
 Bit No. 7 Size 7 7/8 From 3808 X 3989 To 3999

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks: 3800-3960 1 hr. before trip for bit
1/2 hr. 7:50 trip
1 1/2 hr. Co Time W.D.P.

8A-4P Remarks: OK Rio pipe 3 hr To Mix Mud
1/2 hr Co Time W.D.P.

4P-12 Remarks: Service Rig. 10:00 For sample for @ 3995
trip for bit #8 - 10:15 bit @ 10:30 pm. Circ. mix mud 1/2 hr.
Drlg. @ 10:45 pm.
1 1/2 hr. Co Time W.D.P.

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Moose "C" Well No. 2 County Nass State KANSAS

Contractor Paul Bros, Inc. Date 10-13-64
 Depth at 8 AM 4090' 4 PM 4152 Midnight 4230
 Driller's 12-8A Joe Clarke 8A-4P Earl Flanders 4P-12 E. Farmer

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
3995	4090	lime	4152	4230	lime
4090	4152	lime			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	11:30	10.4	44	11 CC		
			1	3:00	10.3	42			
			1	6:00	10.2	41			
DRILL PIPE TRIPS			2	8:00	10.3	39		4 M42jel	5 1/2" O.D.
DEPTH	REASON		2	12:00	10.2	42	12.6	6 Salt/ool	50" Pres
4152	SIT #90WV		2					2 M 8000ra	
			3	7:30	10.14	45	12.6	3	MV/2 Jel.
			3	10:10	10.2	44		5	Salt/Hjel.
			3						

Size Hole 7 7/8 Pump Pressure Midnight _____ Drill Pipe Wt. Midnight _____
 Bit No. 8 X 9 Size 7 7/8 From 3989 X 4152 To 4152

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks:

8A-4P Remarks: 1 1/2 hr Co Time @ 4152
0.75 hr @ 4152 TRIP @ 4152

1 1/2 hr Co Time @ 4152

4P-12 Remarks: Finish pulling bit # 8 & B 10' Hit # 9 @
4:30 pm. 1 hr @ 4152 mix mud 12.6.

1 1/2 hr Co Time @ 4152

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Moore "C" Well No. 2 County Ness State Kansas

Contractor Peel Bros Inc. Date 10-14-64

Depth at 8 AM 4310 4 PM 4319 Midnight 4335

Driller's 12-8A Joe Clarke 8A-4P Earl Flanders 4P-12 Ed Thomas

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
<u>4230</u>	<u>4310</u>	<u>lime</u>	<u>4319</u>	<u>4335</u>	<u>lime</u>
<u>4310</u>	<u>4319</u>	<u>lime</u>			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			<u>1</u>	<u>11:00</u>	<u>10.2</u>	<u>44</u>	<u>12.6</u>		
			<u>1</u>	<u>3:55</u>	<u>10.1</u>	<u>41</u>			
			<u>1</u>	<u>6:00</u>	<u>10.2</u>	<u>42</u>			
			<u>2</u>	<u>9:00</u>	<u>10.3</u>	<u>42</u>		<u>6</u>	<u>Mylol</u>
			<u>2</u>		<u>10.2</u>	<u>43</u>	<u>9.</u>	<u>6</u>	<u>Saltcel</u>
			<u>3</u>					<u>5</u>	<u>Sal 17</u>
			<u>3</u>	<u>9:30</u>		<u>44</u>	<u>1</u>		

DRILL PIPE TRIPS

DEPTH	REASON	TOUR	TIME	WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
<u>4319</u>	<u>D.S.T. #1</u>	<u>2</u>						
<u>4319</u>	<u>BIT 410 WT</u>	<u>3</u>						

Size Hole 7 7/8 Pump Pressure Midnight _____ Drill Pipe Wt. Midnight _____
 Bit No. 9 X 10 Size 7 7/8 From 4152 X 4319 To 4319

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks: _____

8A-4P Remarks: C.F.S. 1 1/2 @ 4319. Mix Mkd waiting on Tester
D.S.T. #1. 4304 - 4319. Filled w/ 10-410 P. 1000 = 700!
Rund 1000 @ 4319.

The rest of the trip

4P-12, Remarks: Finish taking D.S.T. #1. Test 1/2 hr. by 12:15. Filled
Test 1/2 hr. 390' Ags. In D.S.T. 95' O.S.A.C.M. TSEP 1275 #1 FF 27#.
FF 49#. FSEP 1120#. Lay Down Tester. Run the hole w/ BIT #10
0 1/2 @ 9:30. 1000. 4 9:30. (1000. 5000. hole 1/2 hr. 1000. 1000.
6 hrs. 1000.

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Moore "C" Well No. 2 County Ness State Kansas

Contractor Peel Bros. Inc. Date 10-13-64

Depth at 8 AM 4384 4 PM 4400 Midnight 4410

Driller's 12-8A Joe Clarke 8A-4P Paul Flanders 4P-12 Exhumer

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4335	4384	lime	4400	4410	lime
4384	4400	lime			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	11:30	10.2	47	9.00	65X	Mylo-gel
			1	3:00	10.2	45			
			1	6:15	10.2	48			
DRILL PIPE TRIPS			2	8:00	10.2	45		3 MYLOJEL	5% DD.
DEPTH	REASON		2	10:20	10.2	43		10 Salt Hoel	
4400	Lost Circulation		2		10.2	42	9	3 Mgs. Special	
			3	7:00	9.8	44	11.2	10 Mylo-jel	10 Salt Hoel
			3	7:30	9.7	42	8.0	3 Magnad.	16 K. H. S.
			3	8:45	9.8	43		4.5% Salt	

Size Hole 7 7/8 Pump Pressure Midnight _____ Drill Pipe Wt. Midnight _____
 Bit No. 10 Size 7 7/8 From 4319 To _____

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks: C.F.S. @ 4378' 1 1/2 hr Mx mud 1/2 hr
 C.F.S. @ 4384' 1/2 hr

2 1/2 hr Contime w/ D.P.

8A-4P Remarks: C.F.S. @ 4374 1 hr + wait 1 hr C.F.S. @ 4391 1 hr + wait 1 hr
 C.F.S. @ 4398 1 1/2 hr Mix MVD 5 hr
 Lost Circ @ 4400 Pulled up in surface To M.V. Lost Circ M.

4 1/2 hrs Contime w/ D.P.

4P-12 Remarks: Mix h.c.m. Run in hole by 7 king circ. For 1/2 hr
 @ 4400 6:00 pm Circ. of mix mud & h.c.m. @ 7:30 pm
 Circ. For Samples 1 1/2 hr @ 4404
 Circ. For Samples 3/4 hr @ 4410

7 hrs. Contime w/ D.P.

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease *Moore "C"* Well No. *2* County *Ness* State *Kansas*
 Contractor *Peel Bros. Inc.* Date *10-17-64*
 Depth at *8 AM* *4 PM* *Midnight*
 Driller's *12-8A B. Banner* *8A-4P Earl Flanders* *4P-12*

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1		9.9	45	7.4		
			1						
			1						
DRILL PIPE TRIPS			2						
DEPTH	REASON		2						
			2						
			3						
			3						
			3						

Size Hole _____ Pump Pressure Midnight _____ Drill Pipe Wt. Midnight _____

Bit No. _____ Size _____ From _____ To _____

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks: *11:00-12:00 Logging 12:00-1:30 Go in hole w/bit*
1 hr w/c DP
1:30-3:00 Condition hole 3:00-6:00-Lay down D.P.
3 hrs w DP
6:00-7:00 Rig up to run casing.

8A-4P Remarks: *Rig up to run casing Run some*
Run 98 fts - used 2 1/2 bags 48 fts of 2000 4 1/2 Casing Set @ 442A
Set 100 fts; Set 4 Set 100 fts. No cement plug down @ 11:45 PM.

4P-12 Remarks:

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Moore Well No. C2 County Ness State KANS

Contractor BILL HAY DRILLING CO Date 10-21-64
 Depth at 8 AM 4 PM Midnight
 Driller's 12-8A/TOM TPO Non Pine 8A-4P 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1						
			1						
			1						
DRILL PIPE TRIPS									
DEPTH	REASON								
			2						
			2						
			2						
			3						
			3						
			3						

Size Hole Pump Pressure Midnight Drill Pipe Wt. Midnight
 Bit No. Size From To

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks: MOVED SET IN RIGGED UP UNIT. STRUNG UP 4" JOBS SUGGESTED BY HOLE DRILL STRUNG UP 4" JOBS. TOOL JOBS BY WELL NOT ENOUGH HOE CLEARED CUT OFF CEMENT 2000' PAPER CASG

8A-4P Remarks:

4P-12 Remarks:

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease *Mess* Well No. *C 2* County *Mess* State *Kans.*
 Contractor *Bill Hays Co.* Date *10-22-64*
 Depth at 8 AM 4 PM Midnight
 Driller's *Tom 702-13* 8A-4P 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1						
			1						
			1						
DRILL PIPE TRIPS			2						
DEPTH	REASON		2						
			2						
			2						
			3						
			3						
			3						

Size Hole Pump Pressure Midnight Drill Pipe Wt. Midnight
 Bit No. Size From To

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks: *Change of 11' to 16' set level 10' below 16' set
 all casing out to 11' D. 11' of casing removed
 Hauled to C 2. Hauled up surface from Ran by using 2' of
 2 5/8" 11' of 7 1/2" and removed all to 3900 surface level*

8A-4P Remarks:

4P-12 Remarks:

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease *Mary* Well No. *02* County *Mason* State *Kentucky*
 Contractor *Bethel & Sons Co.* Date *10-23-64*
 Depth at *8 AM* *4 PM* Midnight
 Driller's *12-8A* *12-8A-4P* 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1						
			1						
			1						
DRILL PIPE TRIPS			TOUR	TIME					
DEPTH	REASON		2						
			2						
			2						
			3						
			3						
			3						

Size Hole Pump Pressure Midnight Drill Pipe Wt. Midnight
 Bit No. Size From To

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks: *Check log - fill up, oil at 1750' stop hole. Smooth wellbore to 4500' and smooth it. Run and open up at bottom 2" diameter. Log to back of book. Smooth hole down 3" log.*

8A-4P Remarks:

4P-12 Remarks:

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Moore Well No. C 2 County Miss State Kans
 Contractor Bill Harding Co. Date 10-24-64
 Depth at 8 AM 4 PM Midnight
 Driller's 12-8A 70's 8A-4P 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLcc	AMOUNT	KIND
			1						
			1						
			1						
DRILL PIPE TRIPS			TOUR	TIME					
DEPTH	REASON		2						
			2						
			2						
			3						
			3						
			3						

Size Hole _____ Pump Pressure Midnight _____ Drill Pipe Wt. Midnight _____
 Bit No. _____ Size _____ From _____ To _____

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks: 12-8A 70's 8A-4P 4P-12
12-8A 70's 8A-4P 4P-12
12-8A 70's 8A-4P 4P-12

8A-4P Remarks:

4P-12 Remarks:

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease

Well No. **2**

County **Wass**

State **K.S.**

Contractor

Date **11-6-64**

Depth at **8 AM**

4 PM

Midnight

Driller's **12-8A**

8A-4P

4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
			395	455	Shale
0	60	Clay & Root	455	475	Sand
20	395	Shale & shells	475	511	Sand

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1					205x	Qol
			1					35x	H₂O
			1					35x	lime
DRILL PIPE TRIPS			TOUR	TIME					
DEPTH	REASON		2						
			2						
			3						
			3						
			3						

Size Hole **12 -**

Pump Pressure Midnight

Drill Pipe Wt. Midnight

Bit No.

Size **12 1/2**

From **0**

To **511**

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				

12-8A Remarks:

Rigging & mixing mud

8A-4P Remarks:

Rig up D₁₂ Rig - rate 12 1/2" into 9:45 PM

4P-12 Remarks:

*Run 22 ft. of 12 1/2" casing
at 9:45 PM. Set at 5:00 PM. 250 ft. of 12 1/2" casing
run at 5:00 PM. 100 ft. of 12 1/2" casing
run at 5:00 PM.*

- 5-14-84 - Cleaned sales tank
- 4-18-85 - G.B. Flushed - sell tank full of B.S. - cleaned Sell Tank
- 9-17-85 - 40 bbl SW in sell tank LACT keeps blowing fuses
- 8-7-86 - Cleaned sales tank - 50 bo.
- 5-11-87 - Cleaned sales tank.
- 6-29-87 - Cleaned G.B. change out 3-50# mag. anodes
- 11-13-87 - Cleaned Sell Tank
- 10-31-88 - Cleaned Sell Tank
- 11-17-88 - Pumped thru 6" SW line
- 2-9-89 - Cleaned Sell Tank
- 7-10-89 - Replace 3 way divert valve on LACT
- 7-11-89 - Repaired oil dump valve on FWKO
- 7-31-89 - Cleaned sell tank
- 8-8-89 - LACT motor burnt - took to St. Bend to get it fixed
- 10-12-89 - cleaned S. G.B. - changed 3- mag anodes
- 11-3-89 replumbed & repaired diverter valve on LACT
- 11-21-89 - 2 hp LACT motor burnt
- 12-14-89 - 2 hp Lact motor burnt
- 4-2-90 - Cleaned FWKO & changed anode
- 4-26-90 - leak in 6" PVC SWD line @ "Y" where Pickrell ties in.
- 5-2-90 - Pump thru SW line
- 6-5-90 - clean sell tank
- 9-6-90 - LACT rejecting
- 9-7-90 - impeller in meter has bad spot in it doesn't meter all the time
- 10-2-90 clean sell tank
- 3-5-91 - clean sell tank
- 4-10-91 - clean FWKO - replaced 1-50# anode
- 7-2-91 - cleaned GB - replaced anodes
- 7-15-91 - Guthrie patched hole in middle stock tank
- 7-25-91 - cleaned N. GB - replaced anodes
- 1-2-92 SET ROVER SW transfer pump
- 4-1-92 cleaned sell tank
- 5-23-92 cleaned FWKO

- 3-20-84 - Parted $\frac{3}{4}$ box break 67 deep
- 4-19-84 - Parted $\frac{3}{4}$ body break 130 deep
- 9-13-85 - Pump Change $2 \times 1\frac{3}{4} \times 14'$
- 5-12-86 - Parted $\frac{7}{8}$ box break 1 deep - replaced 30 hp motor
- 7-8-87 - Parted $\frac{3}{4}$ box break 81 deep
- 7-21-87 - Parted $\frac{7}{8}$ box break 51 deep - replace $51-\frac{3}{4}$ rods
21- $\frac{3}{4}$ boxes, 41- $\frac{7}{8}$ boxes.
- 9-5-87 - Polish rod parted - Parted $\frac{3}{4}$ body break 70 deep
- 11-5-87 - Parted - pulled rods & plgr - serviced plgr - ran back PWOP
- 12-2-87 - Dump 300 gal 28% FE + 2% checkersol - 40 bbl flush
- 12-3-87 - Quit pumping.
- 12-7-87 - Pull rods & tbq - Teko tested found 26 bad jts tbq
ran tbq 4 rods PWOP
- 12-16-87 - LLL
- 8-29-88 - Parted $\frac{7}{8}$ pin break 26 deep
- 11-2-88 - Parted $\frac{3}{4}$ body break 109 deep - check out $1\frac{3}{4}$ plgr & std ulv.
- 11-14-88 - Parted $\frac{3}{4}$ body break 82 deep
- 2-10-89 - Parted $\frac{3}{4}$ body break 90 deep
- 3-25-89 - Parted $\frac{3}{4}$ body break 83 deep - replaced $3-\frac{3}{4}$, 1- $\frac{7}{8}$ rod
changed $1\frac{3}{4}$ plunger
- 5-2-89 - Parted $\frac{3}{4}$ body break 70 deep
- 5-8-89 - Parted $\frac{7}{8}$ box break 23 deep
- 5-26-89 - Parted $\frac{3}{4}$ body break 65 deep - replaced $17-\frac{3}{4}$ rods
5- $\frac{7}{8}$ boxes
- 6-26-89 - Parted - waiting on rod design $\frac{3}{4}$ pin break 116 deep
- 7-13-89 - Fished part - ran in new string of $\frac{7}{8}-\frac{3}{4}$ sucker rods
- 9-7-89 - 30 hp motor burnt
- 1-31-90 - Parted - $1\frac{1}{4}$ polish rod - replaced polish rod & liner
- 4-20-90 - Change out $2 \times 1\frac{3}{4} \times 14$ tbq pump
- 6-4-90 - Quit pumping - pulled pump - OK pulled tbq no leak
- 6-5-90 - Hydrottested back in hole blew 3 jts - ran rods PWOP

- 4-25-91 - pull rods & tbq
- 4-26-91 - Perf Ft Scott 4311-20 & 4304-09 443PF
 ran 4 1/2 RBP & PKR on 2 3/8" tbq set RBP @ 4338
 PKR @ 3285 - FL @ 1700' - swab hole dry
 no fluid entry - treat w/ 1500 gal 15% NEFE
 800 psi @ 2 bpm - TLA 60 bbl - swab down - 4 hr
 swab test 1st hr 1.25 TF 15% oil
- 4-29-91 - 1700' FU 10% oil swab down 3rd hr 1.67 bbl 60% oil
- 4-30-91 - 1700' FU 700 oil - retreat w/ 1500 gal 15% NEFE
 4 bpm @ 1050 psi 151A 350 250 in 15 min. - swab
 back 22 bbl load - pull tools run tbq 5000
- 5-1-91 - run pump & rods pwop
- 6-18-91 - pull rods & tbq - ran Howco 4 1/2 RTTS set @ 4291 - pumped
 2000 gal Matrol polymer @ 2 bpm - 900 psi - 5 bbl diesel
 and 50 sax DOC cement, 5 bbl diesel & flush w/ 37 bbl
 lease crude.
- 6-24-91 - swab total of 81 bbl oil & wtr back from polymer/cement job
- 6-25-91 - pull tools run tbq, bbl, rods & plqr.
- 6-27-91 - Quit pumping - pull rods & plqr. - chunks of rubber in plqr
- 6-28-91 - Quit pumping - pull rods & tbq - tested tbq - had 21 lbs back
 run tbq rods & pump pwop.
- 7-21-92 - rods PARTED 44 deep 7/8" box

2-23-93 Pumped overhead lines

Ritchie Exploration, Inc.

Field Work Report

Lease Moore B-C/P Well Number 2
Field Supervisor Ness County Date 3-11-94
Type of Work Rod Parted

M.I.R.U. pull rods to part, parted 10th
rod 7/8" pin break, ran fishing tool fished
Replaced broken rod - and 3 more w/ parts
from warehouse. Ran rods Hung Well on
R.D. M.O.

Miles _____ Service Unit plains Well Ser
Meals _____ Number of Hours _____
Phone _____
Other _____

_____ Driller
Bennie Dille
Field Supervisor

Ritchie Exploration, Inc.

Field Work Report

Lease Moore B-C/P Well Number _____

Field Supervisor Ness County Date _____

Type of Work _____

12-28-93 move off knockouts, built grade
12-30-93 purchased New fiberglass gun barrel
from Sunrise Supply 12' x 20'
Set gun barrel and stock tank hook up

1-12-94 12 1/2 stock tank 250 BBI
from Schimkowitch C/P

1-12-94 12 1/2 stock tank 250 BBI
from Hobbs D/P

Knockout in moore yard

Miles _____ Service Unit _____

Meals _____ Number of Hours _____

Phone _____

Other _____

Driller

Bennie Dille

Field Supervisor