

BORGER "A" #2

APRIL 1992

24th -

Acid job. 300 gal 28% NE acid. TCTD
\$500.00.

MISCELLANEOUS CHRONOLOGICAL REPORT
BORGER "A" #2
NESS COUNTY, KANSAS

08-09-89 Dumped 300 gal 28% FE. BW 7 BO & 140 BWPD.
 AW 9 BO & 216 BWPD. TC \$475.00.

cc: Chrono Book
 Well File
 C. W. Horsman

CHRONOLOGICAL DRILLING RECORD

Elevation: 2271 GL

Date of Report	Total Depth	Description of Work Performed
11-17-64		Location staked by Ness County Engineer: 2086' FWL and 766' FNL Section 25-19-22W, Ness County, Kansas. Contractor, Peel Brothers, Inc.
11-18/22-64		Location (rain, location muddy).
11-23/24-64		Levelling location, MIR.
11-25-64		Location level; finish digging pits.
11-26-64		MI, RURT.
11-27-64		Shut down (Thanksgiving Day).
11-28-64	509'	Spudded 12 $\frac{1}{2}$ " hole on 11-27-64, 11:45 AM. Drilled to 509'. Ran 17 jt 8-5/8" OD 32# 10-V thd. grade "C" casing at 507', cemented with 250 s Pozmix 50-50 with 5% D-43 and 50 sx common, 5% D-43; cement circulate Plug down at 12:30 AM. WOC.
11-29-64	1565	Drilling (Anhydrite 1496-1532); 1/4° at 1500'; native mud.
11-30-64	2445	Drilling (ls); 1/2° at 2000'. Top Anhydrite 1496.
12-1-64	2738	Making trip (ls); 1/4° at 2594.
12-2-64	3075	Drilling (ls & sh); 0° at 3015.
12-3-64	3415	Drilling (ls & sh); wt. 10.3, vis. 37. Strapped drill pipe at 3315, .94' long, no correction.
12-4-64	3640	Drilling (ls); 1/4° at 3500; wt. 10.2, vis. 44, WL 20 cc. Elevation 2271 GL.
12-5-64	3855	Drilling (ls); wt. 10.1, vis. 41, WL 11 cc.
12-6-64	4000	Drilling (ls); wt. 10.2, vis. 42, WL 10.6 cc.
12-7-64	4140	Drilling; wt. 10.0, vis. 45, WL 9.6 cc.
12-8-64	4307	Circ. Wt. 10.0, vis. 49, WL 10 cc. Tops: Heebner 3744 (-1464), Toronto 3762 (-1482), Lansing 3792 (-1512), Base K. C. 4115 (-1835), flat with Borger "A" #1.
12-9-64	4378	TD 4378; wt. 9.9, vis. 48, WL 8 cc. <u>DST #1 4369-78</u> , 9', Congl., 5-30-30-30, weak blow for 5 mins., died, by-pass tool 15 mins., rec. 5' drilling mud; ISIP 77#, IFP 25#, FFP 25#, FSIP 31#.
12-10-64	4410	<u>DST #2 4389-98</u> , 9', Miss., 30-30-45-45, weak blow throughout test, recovered 55' oil-cut mud; ISIP 1255#, IFP 46#, FFP 56#, FSIP 1247#. Going in hole for DST #3. Wt. 10.0, vis. 51, WL 9.4 cc. TD 4410.
12-11-64	4410 RTD	<u>DST #3 4398-4410</u> , 12', Miss., 30-30-30-30, strong blow throughout, recovered 390' gas in drill pipe, 1048' free oil, 189' mud-cut oil; ISIP 1317#, IFP 85#, FFP 440#, FSIP 1310#. Wt. 10.0, vis. 56, WL 9. cc. Ran Schlumberger Laterolog survey to 4406'. Ran 137 jts. 4 $\frac{1}{2}$ " (9.5# 8 rd. thd. J-55 casing at 4409', cemented with 100 sx SS common cement; good circulation throughout; reciprocated pipe while cement; plug down at 6:18 AM; shoe jt. 16.18'. Used 5 - 4 $\frac{1}{2}$ " B&W centralized at 4075, 4172, 4263, 4360 and 4403, and 3 - 4 $\frac{1}{2}$ " B&W turbulators at 4372, 4399 and 4406. WOC.
12-12/14-64		WOC.
12-15-64		Moved in, rigged up unit; moved in 10x15 test tank. Started swabbing down.
12-16-64		Swabbed hole down; drilled cement 4391-4398.
12-17-64	4406 PBTB	Drilled cement 4398-4406, PBTB. Ran Lane-Wells PFC log 4100-4403. Perf. Osage 4394-99 with 15 shots; bailed 3.34 gals. muddy water in hr. Perf. Osage 4399-4404 with 15 shots; bailed 9.68 gals. oil and 2.33 gals. water, 4 hrs. Last hr. 3.34 gals. oil and 0.25 gal. water

CHRONOLOGICAL DRILLING RECORD

Page 2

Date of Report	Total Depth	Description of Work Performed
12-18-64		Filled up 85' fluid in 22 hrs. Bailed 46.76 gals. oil, 11.69 gals. water. Acidized 4394-4404, Osage, with 250 gals. 7½% CU (BJ), 2760 gals. water, pressured up to 200# (collar leaking on 4½" csg. reweld 0-apsd, treating time 90 mins., AIR 0.067 BPM. Swabbed load, 6 bbls acid water and 65 bbls. salt water, 6 bbls. oil; total load recovered 71 bbls. water and 6 bbls. oil.
12-19-64		Bailed 18.95 gals. oil, 45.33 gals. water, 7 hrs. Last hr. 4.10 gal oil and 0.07 gal. water.
12-20-64		32' fillup in 13 hrs. Bailed 21.5 gals. oil and 0.59 gal. water. Acidized 4394-4404, Osage, with 500 gals. 7½% CU acid, 3010 gals. sa water, treating time 118 mins., press. 1300#-700#-400# apsd to vac. 1 min. through csg., AIR .25 BPM; load to recover, 83.6 bbls. fluid. Swabbing hole down. Swabbed 5.85 bbls. oil, 84 bbls. water, 3 hrs. Swabbed 12.14 bbls. oil, 0.51 bbl. water, 1 hr.
12-21-64		3000' fillup in 13 hrs. Bailed 60 gals. water off bottom, 1.43 bbls Swabbed down 101.73 bbls. fluid, 100.57 bbls. oil and 2.59 bbls. wtr 10 hrs. Last hr. 13.73 bbls. oil, 0.14 bbl. water.
12-22-64		3600' fillup in 13 hrs. Bailed 75.15 gals. water off bottom. Ran 3.85' perforated nipple 1.09' seating nipple 138 jts. 2" EUE 8 rd. thd. tubing, 4363.22' 1 - 2" EUE 10', 8', 8' subs (total 26'), 4394.16' 2x1½x12' pump 1 - 3/4"x2' pony rod 4375' (175 rods) 3/4"x25' Jones #2 rods. 1 - 3/4" x 2' pony rod 1½x16' polished rod
12-23-64		Moved in test pumping unit. Shut down, tank room.
12-24/28-64		Shut down, tank room.
12-29-64		Running oil out of test tank. State test scheduled for 12-31-64.
12-30-64		State test on 12-31-64.
12-31-64		State test today. Pretest pumped 75.72 fluid, 0.5% water, 11½ hrs.
1-1-65		State test: Pumped 148 bbls. fluid, 1% water (146.52 bbls. oil and 1.48 bbls. water), 24 hrs. 49.45 bbls. fluid in 8 hrs. Schaben-Mis Field. <u>Allowable 44 B/D. Complete.</u>

CC: Wichita Geol. Dept.

D. H. COOK & CO.

Oil Well and Lease Servicing

167 WEST FIRST STREET P. O. BOX 358
HOISINGTON, KANSAS 67544
Office Phone 653-4286

L. & PD. NO. 744298

COMPS. INS. NO. 6642571

INVOICE NO. 13182

ORDER NO. E 1160

DATE August 1, 1974

TO Cities Service Oil Company
c- Mr R. C. Hallam
305 S. Washington
LaCrosse, Kansas 67584

Employer's Identification No. Federal 48-0180444 — Kansas W034400

FOR CUSTOMER'S USE ONLY	
REGISTER NO.	VOUCHER NO.
F. O. B. CHECKED	
TERMS APPROVED	PRICES APPROVED
CALCULATIONS CHECKED	
TRANSPORTATION	
FRIEGHT BILL NO.	AMOUNT
MATERIAL RECEIVED	
Date	Signature Title
SATISFACTORY AND APPROVED	
ADJUSTMENTS	
ACCOUNTING DISTRIBUTION	
AUDITED	FINAL APPROVAL

Borger Well No. A - 2

Pull Rods & Tub

7-25 — Raised and geyed mast, strung over rod line. Hung well head off. Pulled out broken 1 1/4" x 16' polish rod. But could not unseat pump. Jarred on pump and pulled on rods. Could not get pump unseated. Rigged up power tongs. Backed off rods to strip out rods and tubing. After backing off rods, pulled out 175 3/4" rods. and part of pump. leaving pull rod and holddown in hole. Strung up tubing blocks. Pulled tubing to get rest of pump. Pulled out 8' 8' 10' x 2" subs. 138 jts of 2" upset tubing a 2" x 12" seating nipple and a 2" x 3' perforated nipple, bull plugged on end. Shut down for day. 11 hrs

7-26 Run in 2" x 3' perforated nipple with a new collar and bull plug. Changed ends and run in 2" x 12" seating nipple. Run back in tubing and tubing sub. Set down on tubing support. Unstrung tubing blocks. Strung over rod line. Run a 2" x 1 1/2" x 14' pump # 544 on a 1' x 3/4" sub. Run in 174 3/4" rods a 10' 6' 6' x 3/4" subs a new 1 1/4" x 16' polish rod. Spaced and hung well on to pump. Started well to pumping. Well pumping when left. 10 hrs

Charge: Pulling unit, Opt. and crew with power tongs. 21 hrs @ \$26.00 per hr.

\$546.00

3% Kansas Sales Tax

16.38

Total

\$562.38

Thank you.

7-1510060 x 7668.2 281.
7-1510066 x 7607.2 281.

HEM.

LEASE 'ELL NO.: BORGER 'A' 2

Location: 2086' FNL - 766' FNL SEC 25-19-22a County: Ness

Elevation -- G.L.: 2271

R.K.B.: 2280'

Date Completed: Dec 10, 1964

Initial Potential: 147 bo + 1 bw - 24

Producing Formation: MISSISSIPPI

Top: 4390 (-2110)

Current Production: 8 bo + 140 bw - 24

Accumulated Production: 164,662 bo + 800,814 bw

Casing: 8 5/8" @ 507' w/ 300 sk 4 1/2" @ 4409' w/ 100 sk

Total Depth: 4410'

PBTD: 4406'

DV Tool:

WORKOVER RECORD: Completion: Drill out to 4406'. Perf.
4394-4404. Az w/ 250 gal 7 1/2%. Re az w/
500 gal 7 1/2% acid. IP 147 bo + 1 bw - 24

10-8-68	D.M.P	Az	w/	250 gal	15%	+ 50 bsw	28+24	47+87
4-2-69	"	"	"	"	"	"	28+67	48+106
10-21-70	"	"	"	"	"	"	29+76	40+159
9-10-73	"	"	"	"	"	"	24+158	18+199
8-7-84	"	"	"	"	"	"	1+122	10+166

8 5/8" @
507'
w/ 300 sk

4394-
4404

4 1/2" @
4409'
w/ 100 sk

10-15-83

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

✓ Log 11/3/65

Lease **BORGER** Well No. **H-2** County **NESS** State **KANS.**
 Contractor **Peel Bros DRG-INC.** Date **11-27-64**
 Depth at **8 AM** **4 PM 160** Midnight **509**
 Driller's **12-8A Bohannon** **8A-4P Farmer** **4P-12 Blake**

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
160	509	Shale & Shells			

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						
			3						
			3						
			3						

Size Hole **12 1/4** Pump Pressure Midnight **350** Drill Pipe Wt. Midnight
 Bit No. **1** Size **12 1/4** From **0** To **509**

CASING RECORD

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

12-8A Remarks: **Run in Mix mud 20 Magsol, 4 Galls, 1 Lime**

8A-4P Remarks:

Spent 11:45 AM.

4P-12 Remarks: **Let down 150' pull out hole to Run 8 1/2" surface pipe, Running 8 1/2" surface pipe**

Lease <i>Borger</i>	Well No. <i>A-2</i>	County <i>Ness</i>	State <i>Kansas</i>
Contractor <i>Peel Bros. Inc.</i>	Date <i>11-28-64</i>		
Depth at 8 AM <i>509</i>	4 PM <i>509</i>	Midnight <i>1230</i>	
Driller's 12-8A <i>Rohannan</i>	8A-4P <i>644</i>	4P-12 <i>644</i>	

FROM	TO	FORMATION	FROM	TO	FORMATION
			1155	1230	Shale.
466	509	Pliny V Cement Hand.			
509	950	Shale			
950	1155	Sand.			

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
500	6	Su-2	1						
1000	0	✓	1						
			1						
DRILL PIPE TRIPS			2						
DEPTH	REASON		2						
			2						
			3						
			3						
			3						

CASING RECORD

[illegible]

12-8A Remarks: Cement 8 5/8" Surface Casing. @ 507' w/ 350 sy. 50-50 Perm.
50 sy. Common HAS. Cement plug @ 12:30 A.M. W.D.C.

8A-4P Remarks: *W. T. C.*

4P-12 Remarks: Pick up D...
Rear... 4:45 PM

Lease	Well No.	County	State
Contractor	Date		
Depth at	8 AM	4 PM	Midnight
Driller's	12-8A	8A-4P	4P-12

[illegible]

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

CASING RECORD

[illegible]

Swashed land (70.58 lbs). Avg. moisture 3.50 gals oil,
1.8% water/hr on 5 hr. barrel test

8A-4P Remarks:

4P-12 Remarks:

JOPCO 300 BKS. 5-63 62703

DAILY DRILLING REPORT

Lease Block "A" Well No. 2 County Ness State Kansas
 Contractor Pool Bros. Inc. Date 11-29-64
 Depth at 8 AM 1565 4 PM 1970 Midnight 2335
 Driller's 12-8A Behanman 8A-4P Estimation 4P-12 Blake

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
1230	1490	Shale	1990	2335	Shale & Shale
1490	1530	Shale & Shale			
1530	1565	Shale & Shale			
	1970	Shale & Shale			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT
1500		
2000		

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1		Water				
1						
1						
2						
2						
2						
3						
3						
3						

DRILL PIPE TRIPS

DEPTH	REASON
1542	Bit
2337	"

Size Hole 7 7/8 Pump Pressure Midnight Drill Pipe Wt. Midnight
 Bit No. 1-2 Size 7 7/8 From 509-1542 To 1542-2337

CASING RECORD

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

12-8A Remarks: Trip + 1542 - 2337

12-8A Remarks: 1542 - 2337

8A-4P Remarks: 1542 - 2337

4P-12 Remarks: 1542 - 2337

Lease Block "A" Well No. 2 County Ness State Kansas

Date 11-30-64

4 PM

Midnight 2655

8A-4P

4P-12 *[Handwritten signature]*

FROM	TO	FORMATION	FROM	TO	FORMATION
2337	2445	Lime			
2445	2600	Lime			
2600	2655	Shale			

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
2594	14	SPFO	1						
			1						
			1						
DRILL PIPE TRIPS			2						
DEPTH	REASON		2						
2445	Hole in D.P.		2						
2594			3						
			3						
			3						

Drill Pipe Wt. Midnight 4000

From 2337-2594 To 2655

CASING RECORD

[illegible]

Jet skole p.i. Trip @ 2445 To Lay down Joint D.P.
w/hole.

8A-4P Remarks: Service Rig.

J. F. E. 15 1/2 x 24 77

4P-12 Remarks: *1st floor. OK Ray in Hole w/ Bit at 4 m B. 5-3-11*

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Borger "A" Well No. 2 County Ness State Kansas
 Contractor Pool Bros. Inc. Date 12-1-64
 Depth at 8 AM 2738 4 PM 2880 Midnight 3000
 Driller's 12-8A K. Harmon 8A-4P E. Harmon 4P-12 Blake

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
2665	2738	Lime			
2738	2880	Lime			
2880	3000	Lime & Shale			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1						
1						
1						
2						
2						
2						
3						
3						
3						

DRILL PIPE TRIPS

DEPTH	REASON
2738	Bit #5 D.C.-8

Size Hole 7 1/2" Pump Pressure Midnight 750 Drill Pipe Wt. Midnight 69000
 Bit No. 4 - 5 Size 7 1/2" From 2594 - 2738 To 2738

CASING RECORD

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

12-8A Remarks: Trip 2738

8A-4P Remarks: Service rig. Finish running in hole w/ bit #5
7 1/2" - 7 1/2"

4P-12 Remarks: C. K. Reg

DAILY DRILLING REPORT

Lease Barrier "A" Well No. 2 County Nevada State Nevada
 Contractor Pool Bros. Inc. Date 12-2-64
 Depth at 8 AM 3075 4 PM 3230 Midnight 3315
 Driller's 12-8A Barbensen 8A-4P Officer 4P-12 Blake

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
3000	3075	Spale - sand			
3075	3230	Spale - sand			
3230	3315	Turn 45 Spale			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT
3015	0	Auto

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1						
1						
1						
2						
2						
2						
3						
3						
3						

DRILL PIPE TRIPS

DEPTH	REASON
3115	Rt 2 # 6

Size Hole 5 1/2 Pump Pressure Midnight Drill Pipe Wt. Midnight
 Bit No. 5 - 1 Size From 3000 - 3015 To 3015 - 3315

CASING RECORD

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

12-8A Remarks: Trip for bit - 3015 - 3075
Spale - sand

8A-4P Remarks: Service Trip

4P-12 Remarks: 1 - Run 3315 - 3347.01
Stop 3346.07
Run 3346.07 - 3347.01

DAILY DRILLING REPORT

Lease Borger "A" Well No. 2 County Ness State Kansas
 Contractor Pool Bros. Inc. Date 12-2-64
 Depth at 8 AM 3415 4 PM 3535 Midnight 3600
 Driller's 12-8A Beckman 8A-4P Beckman 4P-12 Beckman

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
3315	3415	Lim + Shale			
3535	3600	Lim			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT
3500	1/2	Sy 50

MUD RECORD

DEPTH	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
			WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
	1					20 starch	21 Salt H ₂ O
	1					1 Alga gel	10 H ₂ O
	1					50 lb. 50 lb.	100 # Pres
	2	10:30	10.3	37		5 lb. 50 lb.	2 starch
	2	12:20	10.3	30	20.6	6 starch 50 lb.	2 mud
	2	2:20	10.3	30	1 D.D.	5 H ₂ O	2 starch 50 lb.
	3	3:50	10.3	39	20.4	7	starch
	3					14	starch
	3					9	starch

DRILL PIPE TRIPS

DEPTH	REASON

Size Hole 7 7/8 Pump Pressure Midnight 800 Drill Pipe Wt. Midnight 2900
 Bit No. 7 Size 7 7/8 From 3315 To 3600

CASING RECORD

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

12-8A Remarks: OK, 2 trip in new mud #7, O.B. @ 12:15

Get to 3600

8A-4P Remarks: Service Rig.

4P-12 Remarks: try mud 1/4 hr. O.B. 12:15
and 3:00 Sy 50 3500
1 1/4 hrs. A.T. time w/L.P.

Lease	Berger "A"	Well No. 2	County Ness	State Kansas
Contractor	Reel Bros. Inc.			Date 12-4-64
Depth at	8 AM 7:40	4 PM 3:55	Midnight 3:00	
Driller's	12-8A B. Lannon	8A-4P B. Lannon	4P-12 B. Lannon	

FROM	TO	FORMATION	FROM	TO	FORMATION
3600	3640	Lime			
3640	3755	Lime			
3755	3800	Lime			

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	3:00	10.4	43		225x	Softener, 1 D.
			1	5:00	10.7	50		195x	Starch 64
			1	6:00	10.2	44		85x	Magnesium
DRILL PIPE TRIPS									
DEPTH	REASON								
2902	P.H.		2	3:42	10.7	47		100#	Pres.
			2	12:25	10.2	42	11	1.50x	DiDo
			2						
			3	4:00	10.3	45	11	65x	Starch
			3	8:30	10.3	40	11		
			3						

CASING RECORD

[illegible]

12-8A Remarks: Mix mud + L.C.M. Ran in hole w/ bit = 2. Wash to bottom.
Cond. hole + mix mud $\frac{1}{2}$ hr. C.B. 1/10 @ 2.45

$\frac{1}{2}$ in. S Time W/D.P.

8A-4P Remarks: *... ..*

4P-12 Remarks: *CF. 100% 100% 100% - 200%*

1/4 1/2 3/4 1 1 1/2 2 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 10 1/2 11 11 1/2 12 12 1/2 13 13 1/2 14 14 1/2 15 15 1/2 16 16 1/2 17 17 1/2 18 18 1/2 19 19 1/2 20 20 1/2 21 21 1/2 22 22 1/2 23 23 1/2 24 24 1/2 25 25 1/2 26 26 1/2 27 27 1/2 28 28 1/2 29 29 1/2 30 30 1/2 31 31 1/2 32 32 1/2 33 33 1/2 34 34 1/2 35 35 1/2 36 36 1/2 37 37 1/2 38 38 1/2 39 39 1/2 40 40 1/2 41 41 1/2 42 42 1/2 43 43 1/2 44 44 1/2 45 45 1/2 46 46 1/2 47 47 1/2 48 48 1/2 49 49 1/2 50 50 1/2 51 51 1/2 52 52 1/2 53 53 1/2 54 54 1/2 55 55 1/2 56 56 1/2 57 57 1/2 58 58 1/2 59 59 1/2 60 60 1/2 61 61 1/2 62 62 1/2 63 63 1/2 64 64 1/2 65 65 1/2 66 66 1/2 67 67 1/2 68 68 1/2 69 69 1/2 70 70 1/2 71 71 1/2 72 72 1/2 73 73 1/2 74 74 1/2 75 75 1/2 76 76 1/2 77 77 1/2 78 78 1/2 79 79 1/2 80 80 1/2 81 81 1/2 82 82 1/2 83 83 1/2 84 84 1/2 85 85 1/2 86 86 1/2 87 87 1/2 88 88 1/2 89 89 1/2 90 90 1/2 91 91 1/2 92 92 1/2 93 93 1/2 94 94 1/2 95 95 1/2 96 96 1/2 97 97 1/2 98 98 1/2 99 99 1/2 100 100 1/2 101 101 1/2 102 102 1/2 103 103 1/2 104 104 1/2 105 105 1/2 106 106 1/2 107 107 1/2 108 108 1/2 109 109 1/2 110 110 1/2 111 111 1/2 112 112 1/2 113 113 1/2 114 114 1/2 115 115 1/2 116 116 1/2 117 117 1/2 118 118 1/2 119 119 1/2 120 120 1/2 121 121 1/2 122 122 1/2 123 123 1/2 124 124 1/2 125 125 1/2 126 126 1/2 127 127 1/2 128 128 1/2 129 129 1/2 130 130 1/2 131 131 1/2 132 132 1/2 133 133 1/2 134 134 1/2 135 135 1/2 136 136 1/2 137 137 1/2 138 138 1/2 139 139 1/2 140 140 1/2 141 141 1/2 142 142 1/2 143 143 1/2 144 144 1/2 145 145 1/2 146 146 1/2 147 147 1/2 148 148 1/2 149 149 1/2 150 150 1/2 151 151 1/2 152 152 1/2 153 153 1/2 154 154 1/2 155 155 1/2 156 156 1/2 157 157 1/2 158 158 1/2 159 159 1/2 160 160 1/2 161 161 1/2 162 162 1/2 163 163 1/2 164 164 1/2 165 165 1/2 166 166 1/2 167 167 1/2 168 168 1/2 169 169 1/2 170 170 1/2 171 171 1/2 172 172 1/2 173 173 1/2 174 174 1/2 175 175 1/2 176 176 1/2 177 177 1/2 178 178 1/2 179 179 1/2 180 180 1/2 181 181 1/2 182 182 1/2 183 183 1/2 184 184 1/2 185 185 1/2 186 186 1/2 187 187 1/2 188 188 1/2 189 189 1/2 190 190 1/2 191 191 1/2 192 192 1/2 193 193 1/2 194 194 1/2 195 195 1/2 196 196 1/2 197 197 1/2 198 198 1/2 199 199 1/2 200 200 1/2 201 201 1/2 202 202 1/2 203 203 1/2 204 204 1/2 205 205 1/2 206 206 1/2 207 207 1/2 208 208 1/2 209 209 1/2 210 210 1/2 211 211 1/2 212 212 1/2 213 213 1/2 214 214 1/2 215 215 1/2 216 216 1/2 217 217 1/2 218 218 1/2 219 219 1/2 220 220 1/2 221 221 1/2 222 222 1/2 223 223 1/2 224 224 1/2 225 225 1/2 226 226 1/2 227 227 1/2 228 228 1/2 229 229 1/2 230 230 1/2 231 231 1/2 232 232 1/2 233 233 1/2 234 234 1/2 235 235 1/2 236 236 1/2 237 237 1/2 238 238 1/2 239 239 1/2 240 240 1/2 241 241 1/2 242 242 1/2 243 243 1/2 244 244 1/2 245 245 1/2 246 246 1/2 247 247 1/2 248 248 1/2 249 249 1/2 250 250 1/2 251 251 1/2 252 252 1/2 253 253 1/2 254 254 1/2 255 255 1/2 256 256 1/2 257 257 1/2 258 258 1/2 259 259 1/2 260 260 1/2 261 261 1/2 262 262 1/2 263 263 1/2 264 264 1/2 265 265 1/2 266 266 1/2 267 267 1/2 268 268 1/2 269 269 1/2 270 270 1/2 271 271 1/2 272 272 1/2 273 273 1/2 274 274 1/2 275 275 1/2 276 276 1/2 277 277 1/2 278 278 1/2 279 279 1/2 280 280 1/2 281 281 1/2 282 282 1/2 283 283 1/2 284 284 1/2 285 285 1/2 286 286 1/2 287 287 1/2 288 288 1/2 289 289 1/2 290 290 1/2 291 291 1/2 292 292 1/2 293 293 1/2 294 294 1/2 295 295 1/2 296 296 1/2 297 297 1/2 298 298 1/2 299 299 1/2 300 300 1/2 301 301 1/2 302 302 1/2 303 303 1/2 304 304 1/2 305 305 1/2 306 306 1/2 307 307 1/2 308 308 1/2 309 309 1/2 310 310 1/2 311 311 1/2 312 312 1/2 313 313 1/2 314 314 1/2 315 315 1/2 316 316 1/2 317 317 1/2 318 318 1/2 319 319 1/2 320 320 1/2 321 321 1/2 322 322 1/2 323 323 1/2 324 324 1/2 325 325 1/2 326 326 1/2 327 327 1/2 328 328 1/2 329 329 1/2 330 330 1/2 331 331 1/2 332 332 1/2 333 333 1/2 334 334 1/2 335 335 1/2 336 336 1/2 337 337 1/2 338 338 1/2 339 339 1/2 340 340 1/2 341 341 1/2 342 342 1/2 343 343 1/2 344 344 1/2 345 345 1/2 346 346 1/2 347 347 1/2 348 348 1/2 349 349 1/2 350 350 1/2 351 351 1/2 352 352 1/2 353 353 1/2 354 354 1/2 355 355 1/2 356 356 1/2 357 357 1/2 358 358 1/2 35

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Conoco 2 Well No. 2 County Ness State Nebraska

Contractor Paul H. Tice Date 12-1-61
 Depth at 8 AM 3255 4 PM 3920 Midnight 5970
 Driller's 12-8A Edmond 8A-4P Edmond 4P-12 Edmond

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
	3755	Lime			
	3920	Lime			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	4:00	10.2	43	11	6.0	ST-10
			1	6:00	10.1	41		5	ST-10
			1						
DRILL PIPE TRIPS			2	7:00				2 ST-10	ST-10
DEPTH	REASON		2					2 ST-10	ST-10
			2	2:00	10.2	46		1 ST-10	ST-10
			3	4:00	10.3	47		5	ST-10
			3	12:00	10.1	46	10-6		
			3						

Size Hole 7 1/2 Pump Pressure Midnight 1170 Drill Pipe Wt. Midnight 1170
 Bit No. 1 Size 7 1/2 From 370 To 370

CASING RECORD

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

12-8A Remarks: 1170
1170
1170

8A-4P Remarks: 1170
1170
1170

4P-12 Remarks: 1170
1170
1170

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Barney 2 Well No. 2 County Nass State Kansas
 Contractor Paul K. Inc. Date 12-5-64
 Depth at 8 AM 4000 4 PM 4055 Midnight 4115
 Driller's 12-8A Barney 8A-4P Barney 4P-12 Blake

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
3900	4000	Lime			
4055	4115	Lime			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT
3905	12	1000

MUD RECORD

DEPTH	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
			WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
3905	1	12:00	10.2	41	10.0	10.0	10.0
	1	6:00	10.2	42			
	1						
	2	9:00	10.2	42	0.1	3 STARCH	3 SALT 40.0
	2	10:00	10.2	44		2 SALT 40.0	10.0
	2	2:00	10.1	45	7.6	5 SALT 40.0	5 SALT 40.0
	3						
	3						
	3						

DRILL PIPE TRIPS

DEPTH	REASON
3905	3.00 FLOW

Size Hole 10 Pump Pressure Midnight 100 Drill Pipe Wt. Midnight 100
 Bit No. 10 Size 10 From 3905 To 4115

CASING RECORD

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

12-8A Remarks: 1st Trip 2 2000 lbs. Sigsbee 1000

8A-4P Remarks: 2nd Trip 2 2000 lbs. Sigsbee 1000

4P-12 Remarks: 3rd Trip 2 2000 lbs. Sigsbee 1000

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Borger "A" Well No. 2 County Ness State Kansas
 Contractor Peel Bros. Inc. Date 12-7-64
 Depth at 8 AM 4140 4 PM 4215 Midnight 4238
 Driller's 12-8A Bohannon 8A-4P Bohannon 4P-12 Bohannon

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4115	4140	Lime			
4140	4215	Lime			
4215	4238	Lime			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	11:30	10.1	43	9.6	9 ss.	Salt water
			1					3	Moisture
			1					3	Starch
			2	8:30	10.1	43	7.6	3 Starch	9 Salt water
			2					3 Moisture	1 Pen. Dr.
			2	12:00	10.1	46	10	50 # Prec.	3 H. H. S.
			3						
			3		10.1	47	10	3	Starch
			3						

Size Hole 7 5/8 Pump Pressure Midnight 7 7/8 Drill Pipe Wt. Midnight 4125-4230
 Bit No. 11 Size 7 7/8 From 4125-4230 To

CASING RECORD

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

12-8A Remarks: C.F.S. @ 4125 1 hr. + Trip. Wash 60' to bottom.
Condition note + water mud at 4125 O.B. drlg. @ 5:30

3/4 hr. Co. Time + W.D.P.

8A-4P Remarks: Service Rig. 11 x 10 1/2 - 11 x 10 1/2

1/2 hr. Co. Time + W.D.P.

4P-12 Remarks: 11 x 10 1/2 - 11 x 10 1/2 Co. 4125-4230 Co. 4125-4230 Co. 4125-4230

3/4 hr. Co. Time + W.D.P.

Lease	Borger "A"	Well No.	2	County	Ness	State	Kansas
Contractor	Peel Bros. Inc.					Date	12-8-64
Depth at	8 AM	4 PM		Midnight			
Driller's	12-8A	8A-4P		4P-12			

FROM	TO	FORMATION	FROM	TO	FORMATION
4238	4307	Limo			
4307	4377	Limo			

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS		
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND	
			1	2:00	10	45	10	6-7	Silica	
			1	6:00	10	40		2	Magnesia	
			1					3	Starch	
DRILL PIPE TRIPS										
DEPTH										
	REASON									
115 ft			2	1:00	10	48	5	10	Silica	
			2	1:00				2	Silica	
			2							
			3		7	48	5	10	Silica	
			3					2	Silica	
			3							

CASING RECORD

[illegible]

12-8A Remarks: Max Pys E. 60.

8A-4P Remarks: 600 ft. from base of cliff 17 mi. S.E. of ...

4P-12 Remarks:

3 1/4 Alice Smith / DP

CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT (

Lease Bonney A Well No. 2 County Ness State Kansas

Contractor Pool Bros Inc. Date 3-2-64

Depth at 8 AM 4 PM 4598 Midnight

Driller's 12-8A *2-12-8A* 8A-4P 4P-12

FORMATION RECORD[illegible]

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	11:55	7.8	43	8		
			1						
			1						
DRILL PIPE TRIPS									
DEPTH		REASON							
			2	10:35	7.8	43	8	2.5 Staron.	13.5 sec. 1/4" = 1
			2	11:30	10	46	9.4	1 H. 11. 1.5 sec. D.D.	
			2					3 m. 5.5 sec. 1/4" = 1	
			3						
			3						
			3						

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

[illegible]

12-8A Remarks: 11:30-11:30, Wait contractor 11:30-11:31; D.S.T. #1 (4269)

23:25, Open at 23:55, Show at 4:25

Wear blue gloves. Flush tank in 15 min. and refill with 100% fresh water.

E.I.R. 100 T.I.R. 100 E.I.R. 31#

8A-4P Remarks:

1 hr. at 100. 4' Drg. @ 9²⁴ pm.

$(1/2) \cdot \pi \cdot (1/2) \cdot 2\pi = \pi^2$ $(1/2) \cdot \pi \cdot (1/2) \cdot 2\pi = \pi^2$

Box 100 - 7/4 00 @ 4375% Disc. For Samples 4398.

4P-12 Remarks: CFS 4-27' 1/2 No. Pull out + 4.0. 2. D.S.T #2 1/2 from Lane

Before 30 - Start - 30 open $3/4$ - shut in $3/4$ 5000 Bbl. through
out last 1/2 of 1941 5000 Bbl. out.

8th time W/PD

DAILY DRILLING REPORT

FORMATION RECORD

SLOPE TESTS

MUD RECORD

CASING RECORD

12-8A Remarks: Finish Pulling Dat @ 2. Run in hole w/ Bit #14-08 @ 155 Dm. Circ to good condition hole & Max Min. 1 hr. Circ to hor. Spl = 4410 1/2. Fall B. = 30 in. w/ 10 in. 4007- (100)

7 $\frac{1}{4}$ hrs C. time w/ BH

8A-4P Remarks: Finish Keweenaw on hole in DST #3. Testing W.P. 4398 - 4410 Test
2 hr. V.b.h. V.b.h. V.b.h. U.G. DST #3. Rec'd. 390' H₂S in pipe.
1048' Free oil. 189' mud G.O.T. oil. I.C.I.P. 1317# I.F.R. 85#
F.E.H. 440# F.C.I.P. 1310#. Break = report from tester. 7° per 12 3/4"
Rig up = New logs. 12 3/4"

5 1/4 hrs. in time left 2 1/2 hrs. less p.p.

4P-12 Remarks: 5:00-5:30 Lead - 5:30-7:15 Run in Hole w/DP.
7:15-8 PM Wash down to Bottom - 4:40-4:50 P.M. - 7:30 PM
Conditioning Hole. 9:30-10:00 - 11:00 AM D.P.

2¹ No. Co Time in and DP.
4¹ No. Co Time in and DP

DAILY DRILLING REPORT

Lease

Derrick "A"

Well No.

2

County

Ness

State

Kansas

Contractor

H. C. Brown

Date

12-11-64

Depth at

8 AM

4 PM

Midnight

Driller's

12-8A

Charley Briggs

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						
			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:

4 1/2" hole used DP - Rig up & Run 127 1/2' 5 1/2"
 Casing - Completed @ 4:10 PM 12-11-64
 8 1/2" DP - Completed @ 6:18 PM

8A-4P Remarks:

4P-12 Remarks:

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Brown Well No. 2 County Newton State Mississippi
 Contractor W. L. G. Co. Date 12-15-64
 Depth at 8 AM 750 4 PM 8A-4P Midnight 4P-12
 Driller's 12-8A

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: Drill pipe 1/2" x 1/2" & drill pump

8A-4P Remarks:

4P-12 Remarks:

Lease 1-2-1-1 Well No. 2 County Mass State Mass

Lease 1-2-1-1 Well No. 2 County Mass State Mass

Contractor R. D. Thompson Co. Inc. Date 5-12-61

Depth at	8 AM	4 PM	Midnight
1000	1000	1000	1000
900	900	900	900
800	800	800	800
700	700	700	700
600	600	600	600
500	500	500	500
400	400	400	400
300	300	300	300
200	200	200	200
100	100	100	100
0	0	0	0

Driller's	12-8A	Geo. Hanner	8A-4P	4P-12
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[illegible]

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						
			3						
			3						
			3						

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

[illegible]

12-8A Remarks: [illegible]

PBTD-4406

1.50	gals muddy water	Tn. oil	- 1 hr.
.75	" " "	3 gals oil	- 1 hr.
.83	" " "	3.34 gals oil	- 1 hr.

8A-4P Remarks:

4P-12 Remarks:

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease 12-8A Well No. 2 County Wichita State Nebraska
 Contractor Bill Taylor Drilling Co. Inc. Date 12-17-64
 Depth at 8 AM 4 PM Midnight
 Driller's 12-8A Geo. Hays 8A-4P 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1						
1						
1						
2						
2						
2						
3						
3						
3						

DRILL PIPE TRIPS

DEPTH	REASON

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: Fluid job unsuccessful. Did not reach formation

8A-4P Remarks:

4P-12 Remarks:

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Boon Well No. 7 County Sioux State Minnesota
 Contractor Boon Date 8-2-54
 Depth at 8 AM 4 PM Midnight
 Driller's 12-8A 8A-4P 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1						
			1						
			1						
DRILL PIPE TRIPS			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: (60.12 gals). Still into on bottom,
101.69 gals. Enabled by test 13.87 gals. per
hr. 192.22 gals.

8A-4P Remarks:

3/4" Oil State oil casing - 2

4P-12 Remarks:

Lease <u>Boulder</u>	Well No. <u>2</u>	County <u>Neosho</u>	State <u>Kansas</u>
Contractor <u>Drill</u>	Date <u>7-2-12</u>		
Depth at <u>8 AM</u>	<u>4 PM</u>	<u>Midnight</u>	
Driller's <u>12-8A</u>	<u>8A-4P</u>	<u>4P-12</u>	

[illegible]

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

CASING RECORD

[illegible]

12-8A Remarks:

8A-4P Remarks:

4P-12 Remarks:

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Well No. County State
 Contractor Date
 Depth at 8 AM 4 PM Midnight
 Driller's 12-8A 8A-4P 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1						
1						
1						
2						
2						
2						
3						
3						
3						

DRILL PIPE TRIPS

DEPTH	REASON

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:

8A-4P Remarks:

4P-12 Remarks:

- 2-23-84 · Changed out 2x1"2x14' insert pump
- 2-28-84 · Pump parted - tested tubing 1 bad collar 1 bad thread
Ran back in hung on
- 8-7-84 · Dump 250 gal. 15% Mod 202 flush w/ 40 bbl sw.
- 3-21-85 · Pump change 2x1"2x14' pump
- 6-26-85 · Lengthen stroke to 74"
- 10-29-85 · Dump 300 gal 28% FE + 5% checkersol - flush w/ 40 bbl sw
- 7-8-86 · Parted - 3/4 box break 151 deep
- 7-24-86 · L.L.L.
- 8-6-86 · Quit pumping - changed out 2x1"2x14' pump
- 8-8-86 · Quit pumping - pulled rods 9 ftg found 2 washed thds.
@ 74th ft.
- 8-15-86 · Quit pumping - pulled rods 9 ftg - hydrotested 9 ftg back
in hole - found 2 bad jts 11 setting nipple
- 10-8-86 · Parted - 3/4 pin break 152 deep changed out 2x1"2x14' pump
- 11-10-86 · Parted - 3/4 body break 12 deep - changed out 1 bent rod
- 11-17-86 · Parted - 3/4 body break 3 deep - singled out 70 - 3/4 rods
ran 70 - 7/8 rods from Rein A2
- 4-11-87 · Parted 3/4 body break 151 deep
- 6-12-87 · Parted - pin break on polish rod
- 7-21-87 · Parted - 3/4 body break 99 deep
- 12-2-87 · Dump 300 gal. 28% FE + 2% checkersol - 40 bbl flush
- 3-11-88 · Hold down on pump parted - replaced 32 - 3/4 rods
- 6-26-89 · Dump 300 gal 28% FE + 5% checkersol
- 8-28-90 · Replaced sheave & drive belts
- 9-13-90 · Dump 300 gal 28% FE flush w/ 40 bbl sw
- 12-17-90 · 30 hp motor burnt
- 12-19-90 · L.L.L.
- 8-22-91 · Parted 7/8 body break 29 deep
- 8-29-91 · dump 300 gal 28% FE flush w/ 40 bbl sw
- 11-18-91 · Crack in pull tub - ran new pump in - changed out 40 3/4 boxes
long stroked well pumping O.K.