

CHRONOLOGICAL DRILLING RECORD

Date of Report	Total Depth	Description of Work Performed
7-27-66		Location by Ness County Engineer: 660 ¹ FNL and 510 ¹ FWL, Section 29-19-21W, Ness County, Kansas. Contractor: Peel Brothers, Inc.
7-28-66		Levelling location and digging pits. MIR.
7-29-66		MI, RURT.
7-30-66	511 ¹	Spudded 7-29-66, at 9:30 AM. Drilled 12 $\frac{1}{2}$ " hole to TD 511 ¹ . Ran 22 jts. 8-5/8" OD 8-V and 10-Rd. Thd. 32# "C" grade casing at 509 ¹ cemented with 200 sx 50-50 Pozmix and 2% calcium chloride, and 75 sx common cement and 2% calcium chloride. Cement circ. Plug down 10:00 PM.
7-31-66	1965	Drilling (sd. and sh.). Anhydrite 1539-71. $\frac{1}{2}$ ^o at 1000 ¹ and 176
8-1-66	2676	Drilling (ls & sh). $\frac{1}{2}$ ^o at 2456.
8-2-66	3120	Drilling (ls & sh). $\frac{1}{2}$ ^o at 2972 ¹ . Load of oil at 3000 ¹ .
8-3-66	3560	Drilling (ls & sh). Native mud. 1.3, 33 vis.
8-4-66	3887	On trip (ls). $\frac{1}{2}$ ^o at 3887. Native mud. Strapped pipe 3625 ¹ , .6 long. Load of oil at 3600.
8-5-66	4110	Drilling (ls). Wt. 10.0, vis. 41, WL 16 cc.
8-6-66	4310	Drilling (ls). Wt. 10.1, vis. 43, WL 20 cc.
8-7-66	4429	Circ. Wt. 9.9, vis. 47, WL 18 cc. <u>Tops:</u> Heebner 3799 (-1483), Toronto 3816 (-1503), Lansing-Kansas City 3846 (-1533), Base K. 4168 (-1852), Ft. Scott 4342 (-2026), Cherokee 4360 (-2044), Cong 4407 (-2091).
8-8-66	4449	Top Miss. Warsaw 4424 (-2108), Miss. Osage 4429 (-2113), 5 ¹ low to Moore "B" #6. <u>DST #1 4429-39</u> , 10 ¹ , Miss., 15-30-60-30, good blow throughout, recovered 247 ¹ free oil, 39 ^o at 60 ^o , 156 ¹ muddy oil, 164 ¹ gas in drill pipe, ISIP 1336#, IFP 46#, FFP 141#, FSIP 1299#. <u>DST #2 4439-49</u> , 10 ¹ , Miss., 30-30-60-30, good blow throughout, recovered 272 ¹ free oil, 189 ¹ muddy oil, 1000 ¹ gas in drill pipe, ISIP 1336#, IFP 41#, FFP 183#, FSIP 1299#.
8-9-66	4457	<u>DST #3 4449-57</u> , 8 ¹ , Miss., good blow throughout, 30-30-30-30, recovered 1376 ¹ gas in drill pipe, 388 ¹ free oil, 126 ¹ muddy oil, 48 ¹ slightly oily mud, 15 ¹ thin mud; ISIP 1336#, IFP 28#, FFP 210, FSIP 1322#.
8-10-66	4468 RTD	Drilling 4457, wt. 9.8, vis. 50, WL 11 cc. Drilled to 4468 ¹ , TD. Wt. 9.8, vis. 50, WL 11 cc. Ran Schlumberger Laterolog, Gamma Ray and Microlaterolog 4468 ¹ . Conditioned hole. Running 4 $\frac{1}{2}$ " casing.
8-11-66	4468	Ran 143 jts. 4 $\frac{1}{2}$ " OD 9.5# SS grade "A" casing at 4467 ¹ , cemented with 150 sx SS common cement; did not reciprocate; good circ. throughout. Plug down at 10:30 AM. Used 5 - 4 $\frac{1}{2}$ " B&W centraliz at 4166, 4239, 4333, 4426 and 4462, and 5 - 4 $\frac{1}{2}$ " B&W turbulators 4420, 4432, 4438, 4464 and 4468. Shoe jt. 10 ¹ . WOC.
8-12-66	4468	WOC.
8-13-66	4468	WOC.
8-14-66	4468	WOC.
8-15-66	4468	MICT today.
8-16-66	4455 PBTD	MI, RUCT. Swabbed and bailed hole dry. PBTD 4455 ¹ ; Lane-Wells PFC log 4455-3900 ¹ . Dumped 100 gals. 10% acetic acid. Perf. 18 shots 4438-44 ¹ , 120 ¹ fluid, 12 hrs.

CHRONOLOGICAL DRILLING RECORD

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8-17-66	4455 PBTB	Swabbed hole down. PBTB 4455'. 60 gals. oil, 207 gals. acid water. Bailed 23½ gals. oil, 7½ gals. water, 3 hrs. Acidized 4438-44, Miss., 6', Dowell, 250 gals. 7½% BDA, 72.5 bbls. water flush, 141 mins., press. 400#-400# apsd to 0# in 8 mins. Load to recover, 78.5. Swabbed show oil, 80 bbls. water, 2 hrs. All load water recovered. Swabbed 6.68 bbls. oil, 0.5 bbl. water 1 hr.
8-18-66		2758' fluid in 12 hrs. Bailed 30 gals. acid water off bottom. Swabbed 30 bbls. oil, trace water, 5 hrs., 1000' off bottom. Bailed 15 gals. water off bottom. Ran 142 jts. 2" EUE 8 rd. thd J-55 "B" grade tubing, 3' perf. nipple, seating nipple at 4446', 1 - 8', 6' and 4' pup, 6' off bottom, 2x1½x14' Bethlehem pump, 40 - 3/4" x 25' Oilwell N+ rods.
8-19-66		Ran 176 - 3/4" x 25' Oilwell N+ rods, 1 - 3/4" x 2', 6' and 8' pony rod. Pumped 86.88 bbls. oil, 1 bbl. water, 16 hrs.
8-20-66		Pumped 43 bbls. oil, 0.5 bbl. water, 8 hrs. Tank room.
8-21-66		State test 8-22-66.
8-22-66		Pumped 44 bbls. oil, trace water, 8 hrs., pretest.
8-23-66		<u>State Test:</u> Pumped 44.1 bbl. oil, trace water, 8 hrs., for State Potential of 132 bbls. oil, trace water, 24 hrs. Schaben Field, "B" Allowable, 54 bbls./day. <u>Complete.</u>

CC: Geol. Dept., Oklahoma City

MISCELLANEOUS CHRONOLOGICAL REPORT
REIN "A" #4
NESS COUNTY, KANSAS

08-09-89 Dumped 300 gal 28% FE. BW 4 BO & 89 BWP.
 AW 5 BO & 115 BWP. TC \$475.00.

cc: Chrono Book
 Well File
 C. W. Horsman

REIN "A" #4

APRIL 1992

24th - Acid job. 300 gal 28% NE acid. TCTD \$500.00.

NOVEMBER 1992

20th - Tbg leak. 147th jt. TCTD \$1561.00.

- 2-10-84 - L.L.L
- 8-7-84 - Dump 250 gal 15% MOD 202 flush w/ 40 bbl s.w.
- 3-26-85 - Pump change 2x 1 1/2 x 14' pump
- 3-27-85 - Pump wouldn't seat - pulled rods & tbg found
a piece of the pump left in tbg after stripping job.
- 6-7-85 - dumped 1 drum Visco scale treatment flush w/ 40 bbl SW
- 10-29-85 - Dumped 300 gal. 28% FE + 5% checkersol - 40 bbl flush
- 6-18-86 - Changed out 2x 1 1/2 x 14' insert pump
- 2-2-87 - Changed out 2x 1 1/2 x 14' insert pump.
- 5-1-87 - pulled tbg to check for tbg. leak - Teko tested
tbg. - found 1-hole - 6 blow outs, 2-collars
1-thd. - ran back in hole - PIHOP
- 12-2-87 - Dump 300 gal 28% FE + 2% checkersol - 40 bbl flush
- 7-19-87 - Dump 300 gal 29% FE + 5% checkersol - " " "
- 7-20-90 - 15 hp motor burnt
- 8-13-90 - 15 hp motor burnt
- 9-13-90 - Dump 300 gal 28% acid flush w/ 40 bbl SW
- 11-4-91 - rod part - 28 rod body break - NEW 25 x 3/4 rods
- 4-23-92 - Dump 300 gal. 28% FE flush w/ 40 bbl SW
- 11-17-92 - Tbg leak 147 th jt changed out 7 jts, pump change
- 1-18-93 - parted 1st rod 3/4" body break
- 1-28-93 - parted 2 deep 3/4" body break
- 2-2-93 - parted 19 deep 3/4" body break changed 25 3/4" rods
- 2-5-93 - parted 39 deep 3/4" body break changed 50 more 3/4" rods.

Rein A-P # 4

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Rein A Well No. 4 County NESS State K5
 Contractor Pet Bros Date 7-29-66
 Depth at 8 AM 4 PM Midnight
 Driller's 12-8A Flooders 8A-4P 4P-12 Blake

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
<u>0</u>	<u>400</u>	<u>Post Knot Silica</u>			
<u>400</u>	<u>500</u>	<u>Shale</u>			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			<u>1</u>					<u>18</u>	<u>DAVIS 3 =</u>
			<u>1</u>					<u>1</u>	<u>lime</u>
			<u>1</u>					<u>3</u>	<u>HuTK</u>
DRILL PIPE TRIPS			TOUR	TIME					
DEPTH	REASON		<u>2</u>						
			<u>2</u>						
			<u>3</u>						
			<u>3</u>						
			<u>3</u>						

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:

Rig up

8A-4P Remarks:

Rig up dug rat hole

18 DAVIS 3 =
lime
3 HuTK

4P-12 Remarks:

trip for collar, pull bit down. 495-91 =
15' surface pipe, set at 505 w/ 200 gr. 50-50,
DOG 75 51 (w/ 2,000 cement) w/ piece of 10' P
W.O.C

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Pain Well No. 4 County Ness State Kansas
 Contractor Peel Bros Inc Date 7-31-66
 Depth at 8 AM 1965 4 PM Midnight 2540
 Driller's 12-8A Flanders 8A-4P 4P-12 Blake

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
1575	1965	Shale & shells			
1965	2420	Shale - lime			
2420	2540	Lime & Shale			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1745	1/2	EASTMAN	1						
2456	1/4	"	1						
			1						
DRILL PIPE TRIPS			2						
DEPTH	REASON		2						
1745	D.F. TRIP		2						
2456	" "		3						
			3						
			3						

Size Hole 7 7/8 Pump Pressure Midnight Drill Pipe Wt. Midnight
 Bit No. 2 Size 7 7/8 From 1745 To

CASING RECORD

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

12-8A Remarks: CKP: 9 Draped Eastman @ 1745 TRIP
D.B.M. BIT # 2 @ 305' EM Treated Liner on mud pump

8A-4P Remarks: Jet pits

4P-12 Remarks: trip slope test 2456' Repair time guide

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Rein = A = Well No. 4 County Ness State Kansas

Contractor Fuelberg Inc Date 8-1-66

Depth at 8 AM 2676 4 PM Midnight 2959

Driller's 12-8A Flanders 8A-4P ??? 4P-12 Blake

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
2540	2676	Lim & shale			
2676	2910	Lime - shale			
2910	2959	Lime & Shale			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLcc	AMOUNT	KIND
			1					8	Hulls
			1						
			1						
DRILL PIPE TRIPS			2						
DEPTH	REASON		2						
			2						
			3					5	Hulls
			3					40 GAL	OIL
			3						

Size Hole 7 7/8 Pump Pressure Midnight Drill Pipe Wt. Midnight
 Bit No. 3 Size 7 7/8 From 2456 To

CASING RECORD

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

12-8A Remarks: OK Pit, Lost some M.C @ 2975
TRIP @ 2676

8A-4P Remarks: Get PITS O.B. B.T.H. 428, 30 AM

4P-12 Remarks: Get & clean - Both pits, tight casing 2941

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Rein = E = Well No. 4 County Ness State Kansas
 Contractor Reel Bros Inc Date 8-2-66
 Depth at 8 AM 3120 4 PM
 Driller's 12-8A Flanders 8A-4P
 4P-12 Blake

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
2950	3120	lime & shale			
3120	3285	lime & shale			
3285	3375	lime & shale			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
2975	5	Eastman	1	6:22	102	81			
			1						
			1						
DRILL PIPE TRIPS			2						
DEPTH	REASON		2						
2975	-		2						
3285	"		3						
			3						
			3						

Size Hole 7 7/8 Pump Pressure Midnight
 Bit No. 4-5 Size 7 7/8 From 2676 To 2972
 Drill Pipe Wt. Midnight

CASING RECORD

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

12-8A Remarks: OK Rig. Drilled Footwall & Trip @ 2972
Rein Hole 4 1/2" = 5" Round at 2972 & 2974

8A-4P Remarks: Work on B.T. Top surface pipe working on pump

4P-12 Remarks: Work on pump finished trip to set wash 10'
Covering to Bottom @ 11:15 PM

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease *Rein = F =* Well No. *4* County *Ness* State *Kansas*

Contractor *Deel Bros Inc* Date *8-3-66*

Depth at *8 AM* *3560* 4 PM Midnight *3820*

Driller's *12-8A Flanders* 8A-4P 4P-12 *Blake*

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
<i>3375</i>	<i>3560</i>	<i>lime + shale</i>			
<i>3560</i>	<i>3640</i>	<i>lime - shale</i>			
<i>3640</i>	<i>3820</i>	<i>lime & shale</i>			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
<i>1</i>	<i>6:00</i>	<i>10.3</i>	<i>33</i>		<i>9</i>	<i>Hulls</i>
<i>1</i>						
<i>1</i>						
<i>2</i>	<i>9:00</i>	<i>10.3</i>	<i>33</i>			
<i>2</i>						
<i>2</i>						
<i>3</i>		<i>10.1</i>	<i>34</i>		<i>3.5x</i>	<i>Hulls</i>
<i>3</i>						
<i>3</i>						

DRILL PIPE TRIPS

DEPTH	REASON
<i>3625</i>	<i>B. + TRIP</i>

Size Hole *7 7/8* Pump Pressure Midnight *750-850* Drill Pipe Wt. Midnight *80000*

Bit No. *6 & 7* Size *7 7/8* From *3285-3625* To

CASING RECORD

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

12-8A Remarks: *OK Rig*

8A-4P Remarks: *40881 0.1 @ 3575'* *Run 363257*

TRIP @ 3625' *Good 363189*

Losing mud @ 3637' - 2 Hulls *.68*
no loss

4P-12 Remarks:

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease *Rein = H =* Well No. *4* County *Ness* State *Kansas*

Contractor *Deel Bros Inc* Date *8-4-66*

Depth at *8 AM 3887* 4 PM *Midnight 4033*

Driller's *12-8A Flanders* 8A-4P *4P-12 Blake*

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
<i>3820</i>	<i>3887</i>	<i>lime</i>			
<i>3887</i>	<i>3965</i>	<i>lime</i>			
<i>3965</i>	<i>4033</i>	<i>lime</i>			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT
<i>3887</i>	<i>1 1/2</i>	

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
<i>1</i>					<i>20</i>	<i>STARCH</i>
<i>1</i>					<i>15K</i>	<i>PRESS</i>
<i>1</i>					<i>1</i>	<i>Defoamer</i>
<i>2</i>					<i>9</i>	<i>SALT ME</i>
<i>2</i>					<i>3</i>	<i>DAVIS</i>
<i>2</i>					<i>3</i>	<i>HULLS</i>
<i>3</i>	<i>4pm</i>	<i>9-6</i>	<i>39</i>	<i>16</i>	<i>1 can</i>	<i>D-D</i>
<i>3</i>	<i>7</i>	<i>9-4</i>	<i>36</i>		<i>9</i>	<i>SALT-CE</i>
<i>3</i>					<i>3</i>	<i>DAVIS. 6E</i>

DRILL PIPE TRIPS

DEPTH	REASON

Size Hole *7 7/8* Pump Pressure Midnight *180-1750* Drill Pipe Wt. Midnight *351-1615 83000*
 Bit No. *7 7/8* Size *7 7/8* From *3625-3887* To

CASING RECORD

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

12-8A Remarks: *OK Rig Circ 1/2 hr before Trip @ 3887*
Dropped Fastener

1/2 hr Co Time WDP

8A-4P Remarks: *OB. B. TOP @ 5:50*
Jet pit mud down up

4P-12 Remarks: *1/2 day 4033'*

**UNITED SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Rein = A = Well No. 4 County Ness State Kansas
 Contractor Peel Bros Inc Date 8-5-66
 Depth at 8 AM 4110 4 PM 4154 Midnight 4245
 Driller's 12-8A Flouder 8A-4P B-C & IN 4P-12 Blake

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4033	4110	Line			
4110	4154	lime			
4154	4245	lime			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	2:30	9.8	38	16	6	Solvent
			1	3:00	10.0	41		2	Oil 2 Halls
			1					2	Starch
DRILL PIPE TRIPS			2						
DEPTH	REASON		2						
4154	Bit		2						
			3					4	Starch
			3	10:10	10-2	43	20.4	1	con D-D
			3						

Size Hole 7 7/8 Pump Pressure Midnight _____ Drill Pipe Wt. Midnight _____
 Bit No. 9 9 10 Size 7 7/8 From 4033-4154 To _____

CASING RECORD

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

12-8A Remarks: CKR: 9 Run in Hole / 11/15. f#9 DB @ 12:30 P.M.

8A-4P Remarks: 1/2 Trip in Hole

4P-12 Remarks: 1/2 Trip in Hole

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease Rein = F Well No. 4 County Ness State Kansas
 Contractor Reel/Boss Inc Date 8-6-66
 Depth at 8 AM 4310 4 PM 4357 Midnight 4405
 Driller's 12-8A Fladders 8A-4P C & H 4P-12 Blake

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4245	4310	Lime			
4310	4357	Lime			
4357	4405	Lime			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	12:00	10.0	40	30"	4	Starch
			1	4:00	10.1	43			
			1						
DRILL PIPE TRIPS									
DEPTH	REASON		TOUR	TIME	WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			2	9:30	10.1	43		8	Starch
			2	11:00	10	42		6	Salt
			2					2	Dials
			3		9.9	45	18	4	Starch
			3						
			3						

Size Hole 7 7/8 Pumo Pressure Midnight Drill Pipe Wt. Midnight
 Bit No. 10 Size 7 7/8 From 4154 To

CASING RECORD

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

12-8A Remarks: OK RIG Tipton Liner on Pump

8A-4P Remarks: C.E.S. 1 1/4 hr @ 4357 Trip
1 1/4 hr. Co time w/ D.P.

4P-12 Remarks: 1/2 hrs on hole. Cementation - hole after trip 1/2 hr.
Shut down - 3/4 hr. Rain Hail & wind blow. Get water on pp
1/2 hrs Co time w/ D.P.

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease 2-11-1-F Well No. 4 County Ness State Kansas

Contractor Foot... Date 8-7-66
 Depth at 8 AM 4434 4 PM 4439 Midnight 4444
 Driller's 12-8A ... 8A-4P Coin 4P-12 Blake

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4434	4439	Chert			
4439	4444	Chert			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1	11:00	9.9	45	18"	4	Soft mud
1	5:30	10.0	52		5	Starch
1	6:00	9.9	47			
2						
2						
2						
3		10	47	14	6	Salt mud
3					4	starch
3						

DRILL PIPE TRIPS

DEPTH	REASON

Size Hole 7 7/8 Pump Pressure Midnight Drill Pipe Wt. Midnight
 Bit No. 11 Size 7 1/2 From 1557 To

CASING RECORD

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

12-8A Remarks: 1 1/2 hr Mix Mud @ hr
C.F.S. @ 4420 1 1/2 hrs C.F.S. @ 4429 1 1/2 hrs
C.F.S. @ 4434 1 hr
5 1/2 hrs

8A-4P Remarks: C.F.S. 1 1/2 hr @ 4434 C.F.S. waiting tester hrs @ 4439

7 3/4 hr Co time w/O.P.

4P-12 Remarks: 3:00 - 5:10. DST #1. Pull some. Rec 247' Free oil
156' 2" mud oil 169' 4" oil

260' in hole w/ Bit Condition = Hole. 9:30 - 10:30 P.M.

9 1/2 hrs Co time w/O.P.

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Rein. #1 Well No. 4 County Ness State Kansas

Contractor Weld Bros. Inc. Date 8-8-66

Depth at 8 AM 4449 4 PM _____ Midnight _____

Driller's 12-8A Weld Bros 8A-4P (Name) 4P-12 Blake

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4449	4457	Chert			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	11:30	7.0	51	12.0	18	Salt mud
			1					6	Starch
			1					2	Davis Ge
DRILL PIPE TRIPS			2	2:30	9.9	50	18		
DEPTH	REASON		2						
4449	D.S.T #2		2						
			3	10:00	9.9	45			
			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: OK Rig 12-8A 4449 1 1/2 hrs. Drilled. D.S.T. #2
Pickup D Tool Run in Hole open 3:45 PM. 1/2 - 1/2 - 1/2
Stopped down hole 24 strokes.

7 3/4 hrs. Port. in mud.

8A-4P Remarks:

Pulled D.S.T #2 Rec'd 272' Clean oil 18" mud on
#51P. 1236 - 1214 IF=41 FF=83. Clean oil
10' ~~10' hole~~ Bottom
OB Bit C. 1 hr. 30 min. hole in mud
C.F.S. 1 1/2 hrs. air mixing mud thr. 7 1/2 hrs. Co Time w/d.P.

4P-12 Remarks:

Pull out hole for D.S.T #3 went in hole on 8:00
6:00 - 9:00. Lifting pull D.S.T #3. Pull up to fluid
Wait 9:00 P.S.I.P.M. - 11:00

Take Co Time w/d.P.

