

CHRONOLOGICAL DRILLING RECORD

Elevation: 2277' GL

2283' OF

2285' KB

Date of Report	Total Depth	Description of Work Performed
10-15-63		Location staked 1920' North and 660' East of SW Cor. (Gen. NW SW) Section 29-19-21W, Ness County, Kansas, by Ness County Engineer. CSO 100%. Released to Peel Brothers, Inc.
10-16-63		Location.
10-17-63		MIR.
10-18-63		RUR.
10-19-63	540'	RUR; spudded at 11:45 AM 10-18-63; drilled 12 1/2" hole to 540'; ran 13 jts. (538.90') 2-5/8" OD, 20# spiral weld slip jt. grade "A" casing set below zero 11' and cemented at 529' with 300 cu. ft. Pozmix "A" (60%, 2% CC); plug down at 12:45 AM 10-19-63; cement circ. (with plug at 410'). WOC.
10-20-63	1825	On trip (top Anhydrite 1520 dirr.). Elevation 2277 GL, 2283 OF, 2285 KB.
10-21-63	2552	Drilling (ls) (Ft. Riley).
10-22-63	2865	Drilling (ls & sh).
10-23-63	3222	Drilling (sh). Wt. 10.6, vis. 34. Strapped drill pipe.
10-24-63	3666	Drilling (ls). Wt. 10.3, vis. 42; dev. 1/2° at 3000'.
10-25-63	3926	Drilling (ls). Wt. 10.4, vis. 43, WL 15 cc.
10-26-63	4120	Drilling (ls). Wt. 10.3, vis. 41, WL 8.0. Top Heebner 3776 (-1517) Toronto 3792 (-1507); Lansing-Kansas City 3622 (-1537).
10-27-63	4302	Drilling (ls). Wt. 10.3, vis. 44, WL 8 cc.
10-28-63	4393	Drilled to 4393 (ls); top Ft. Scott 4323 (-2032); 1' lower than Moore "C" #1). DST #1 4325-39 (14' Ft. Scott), open 1 hr. (2-30-30), weak blow 2 mins. and died; flushed tool after 30 mins. with very weak blow and died; recovered 20' rotary mud; ISIP 0#, IFF 3; FFP 30#, FSIP 0#. Drilling at 4393 (sh & ls); wt. 10.4, vis. 45, WL 7 cc.
10-29-63	4413 RTD	Drilled to 4413, RTD. Top Miss. 4410 (-2125). DST #2 4392-4413 Miss.), open 1 hr. (2-30-30-30 mins.); weak blow throughout test; recovered 121' oil-cut mud, no water; ISIP 1370#, IFF 50#, FFP 70 FSIP 1270#. Conditioned hole 1 hr. 40 mins. Laid down drill pipe. Running 4 1/2" casing.
10-30-63		Ran 126 jts. (4425.80') 4 1/2" OD 2.5# J-55 3 rd. thi. casing set 25' above zero and cemented at 4410.50 (casing measurements - casing off bottom and packing element 2' off bottom); cemented with 750 mud flush, 275 sx Pozmix A (50%) salt saturated cement; pumped pl at 9:00 PM; final pressure 2100#, plug down at 11:50 AM 10-29-63. Centralizers at 4362, 4270, 4170 and 4072. WOC. Left 300 psi. WOC.
10-31-63		MI, RUOT (Bill Hay Drilling Company). Preparing to swab down, dr cement and shoe, CC to TD and bail test.
11-1-63		Swabbed 4 1/2" casing dry, drilled float and cement to 4411 (4413 JL in 5 hrs. No fillup. Drilling casing shoe.
11-2-63		Drilled casing shoe and CC to 4413, fillup 130' in 2 hrs. Bailed hole cleanly recovered no water.
11-3-63		Fillup 1157' in 14 hrs. Ran bailer to 4413. No water. Ran bit recovered formation sample; ran 141 jts. 2" EUE tubing to 4405'; swabbed 15 bbls. oil, no water, 1st hr., 5 bbls. oil and no water 2nd hr., 5.8 bbls. oil and no water 3rd hr., 1.8 bbls. oil and no water 4th hr., 2.2 bbls. oil and no water 5th hr. Swabbing.
11-4-63		

CHRONOLOGICAL DRILLING RECORD

Date of Report	Total Depth	Description of Work Performed
11-5-63		Fillup 1185' in 14 hrs. Swabbed 15½ bbls. oil, no water, 4 hrs. Ran rods and pump, moved in and connected pumping unit; pumped 10 bbls. oil, no water, 12 hrs., pounding fluid; 18 - 32" SPM, 1½" pump
11-6-63		Pumped 24 bbls. oil, no water, 24 hrs. Pounding fluid.
11-7-63		Pumped 23½ bbls. oil, no water, 24 hrs. Pounding fluid.
11-8-63		Pumped 24 bbls. oil, no water, 24 hrs.
11-9-63		Pumped 24 bbls. oil, no water, 24 hrs.
11-10-63		MI, RUCT, pulled rods and tubing, 1676' fluid fillup/20 hrs.
11-11-63		Recovered no water on bailer check from bottom; found shoe tight; redrilled shoe and drilled 4413-14 in 23 mins., recovered mostly chert with traces of light porosity and stain; fair saturation. Bailed 3 times off bottom, recovered no water; fluid remained static at 1676'. Drilled 4414-15 in 19 mins., 1800' fluid in hole or 121' fillup in 16 mins., mostly chert, poor to light spotted stain and saturation.
11-12-63		2400' fluid in hole, 600' additional fillup in 12 hrs. Bailer check no water from bottom. Ran rods and tubing, pumped 42 bbls. oil, no water, 16 hrs.
11-13-63		Pumped 27 bbls. oil, no water, 24 hrs. 18 - 32" SPM, 1½" pump.
11-14-63		Pumped 26 bbls. oil, no water, 24 hrs.
11-15-63		Pumped 26 bbls. oil, no water, 24 hrs.
11-16-63		Pumped 27 bbls. oil, no water, 24 hrs.
11-17-63		Pumped 26 bbls. oil, no water, 24 hrs.
11-18-63		Pumped 26 bbls. oil, no water, 24 hrs. Physical potential today.
11-19-63		Pumped 26 bbls. oil, no water, 24 hrs. On physical potential.
11-20-63		State Physical Potential: Pumped 28 bbls. oil, no water, 24 hrs. Oil gravity 39° at 60° F. 2x1½"x12' pump, 18 - 32 SPM. Seating nipple at 4408. Schaben field, allowable 28 E/D. Complete.
CC: Geological Dept., Wichita.		TD 4415 4½" csg. at 4411 Miss. open hole 4411-15

CHRONOLOGICAL DRILLING RECORD

Date of Report	Total Depth	Description of Work Performed
3-7-64	TD 4415	Moved in unit, pulled rods and pump. TD 4415, 4½" casing at 4411 Miss. open hole 4411-15. Acidized 4411-15, Miss., with 250 gals. 15% acid, 714 gals. water (loaded hole with 65 bbls. water, total load 71 bbls.); pr. 550-550-vac. in 8 mins., through annulus, rate 1 GPM, 4 hrs. 22 mins.
3-8-64		Reran rods and pump, put to pumping.
3-9-64		Pumped 55.44 bbls. water, 24 hrs.
3-10-64		Pumped 20 bbls. oil, 9 bbls. water, 24 hrs. (Total 64 bbls. water)
3-11-64		Pumped 20 bbls. oil, 1 bbl. water, 24 hrs.
3-12-64		Pumped 19 bbls. oil, 1 bbl. water, 24 hrs., 39" - 12 SPM.
3-13-64		Hay Drilling Co. rigged up unit, pulled rods and tubing, checked
3-14-64	TD 4421	1500' fluid in hole, 27 hrs. 13 hrs. fluid level 1860' (360' fill 13 hr. fillup 360' to 1860'. Deepened 4415-17, 2', in 30 mins., chert and 30% dolo.; 4417-4421, 4', in 1 hr. 55 mins., 85% chert 15% dolo., total 6'. 75' fillup to 1935' in 1 hr., still 2' above Moore "B" #1 bottom perms. 2nd hr. 56' fillup to 1985', 3rd hr. fillup 50' to 2035', 4th hr. 45' fillup to 2080', total 145' fill in 3 hrs.
3-15-64		Fillup 240' to 2320' in 14 hrs. 15 mins., ran tubing (2" EUE), pu and rods back in well. Pumped 43 bbls. oil, 1 bbl. water, 18 hrs 3% G.O.
3-16-64		Pumped 19 bbls. oil, 1 bbl. water, 6% G.O., 24hrs.
3-17-64		Pumped 19 bbls. oil, 1 bbl. water, 24 hrs.
3-18-64		Pulled rods and pump to frac.
3-19-64		Pulled 5 jts. tub., fraced Miss. 4111-21, with 500 gals. 3%, 3000 gals. gelled 3% acid, 3000# 20-40 sand, 2100 gals. salt water flush, pr. max. 2575#, broke at 2150", avg. 2200", pr. drop 725# 1 min., 2075#/10 mins., through annulus; AIR 5 bbls./min. Let ge break out, total load to recover 134 bbls. fluid.
3-20-64		Swabbed 93.48 bbls. fluid, 9.66 bbls. oil and 83.82 bbls. water, 10 hrs., 51 bbls. load water to recover. Last 2 hrs. 2.67 bbls. 40l bbls. water (60% water), and 2.94 bbls. oil, 294 bbls. water (50% water).
3-21-64		Shut down, storm.
3-22-64		Swabbed 81.33 bbls. fluid, fluid level 1050' from surface, 60.19 bbls. oil, 21.14 bbls. water (26% water), 10 hrs. Last 2 hrs. 4 bbls. fluid/hr., 3.40 bbls. oil, 1.19 bbls. water, and 4.59 bbls. fluid/hr.
3-23-64		Swabbed 45.54 bbls. fluid, 5 hrs., 29.61 bbls. oil and 15.93 bbl water (33% water). Ran 5 jts. 2" EUE tubing, and 173 - 3/4" x 2 rods with 2" x 1½" x 16' 3-tube pump. Put well on pump.
3-24-64		Pumped 35 bbls. oil, 19 bbls. water, 18 hrs., pump trouble. Total water recovered 131 bbls. (134 bbls. load).
3-25-64		Pumped 65.62 bbls. oil, 32.48 bbls. water, 23 hrs.
3-26-64		Pumped 40 bbls. oil, 21.84 bbls. water, 16 hrs. (knock-
3-27-64		Pumped 40 bbls. oil, 22 bbls. water, 17 hrs. Started up free-w
3-28-64		Pumped 49 bbls. oil, 28 bbls. water, 24 hrs.
3-29-64		Pumped 45 bbls. oil, 35 bbls. water, 24 hrs.
2-30-64/3-31-64		On physical potential.
4-1-64		State Physical Potential: 44 bbls. oil, 35 bbls. water, 24 hrs.
		Allowable 31 bbls./day.

- 2-10-84 L.L.L.
- 3-22-85 - Pump change 2 x 1 1/2 x 14 pump
- 3-25-85 - Quit pumping - longstroked and got to pumping
- 3-29-85 - pulled rods of tbg. Hydrotested tubing back in hole - blew out hole in 136 ft. tight split.
- 7-31-85 - Quit pumping - pulled rods of tbg. found leak 138 ft deep.
- 9-23-85 - Quit pumping - pump looked good - press tbg.
- 9-21-85 - Pressured tbg. would not load
- 9-25-85 - found split in 136 ft 2 3/8 tbg - Ran 10 rod guides on bottom
- 10-23-85 - Pump stuck - changed out 2 x 1 1/2 x 14 pump - motor burnt out
- 10-29-85 - Dump 300 gal 28% FE + 5% checker sol - 40 bbl flush
- 12-4-85 - long stroked well got to pumping
- 1-3-86 - pulled rods of pump - didn't find leak in tbg.
- 1-11-86 - Tested tbg - found 10 bad ft - ran back in PUOP
- 1-5-86 - mice chewed into wiring on motor burnt it up.
- 2-28-86 - Parted 3/4 x 1 1/8 box break on polish rod
- 3-13-86 - Pump stuck - longstroked - got to pumping - stuck again
- 3-14-86 - Pulled rods of pump - pump parted on barrel
- 7-18-86 - T.A. ed
- 9-28-89 - Layed out rods of tbg.

12-10-87 - Cleaned FKKO and changed anodes

2-21-88 - Cleaned FKKO and change anodes

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Reim "A" Well No. 1 County Ness State Kansas

Contractor Peel Bros. Inc. Date 10-23-63

Depth at 8 AM 3335 4 PM 3485 Midnight 3510

Driller's 12-8A Joe Chamber 8A-4P 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
3190	3335	lime & shale	3485	3510	shale
3335	3485	lime & shale			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1					5%	Hulls
1						
1						
2	10:30	10.3	35		20 M40/100	20% DR
2	11:30	10.4	36		5% 2/16	
2					200# Pea	
3	12:15	10.4	33		10% 2/16	
3	1:15	10.5	33		5% 2/16	Salt Hole
3	10:20	10.5	37			

DRILL PIPE TRIPS

DEPTH	REASON
3190	Bit #6 out #7 in

Size Hole 7 7/8 Pump Pressure Midnight 850 # Drill Pipe Wt. Midnight 71,000

Bit No. 7 Size 7 7/8 From 3190 To

CASING RECORD

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

12-8A Remarks:

Trip + strap D.R. @ 3190' O.B. BIT #7 @ 2:15

Strap 3211.97
 Bored 3210.73
 D.R.F. 1 24 No Cart.

8A-4P Remarks: Tot Bath ...

4P-12 Remarks: Service Pipe

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Point "F" Well No. 1 County Ness State Colorado
 Contractor East Texas Inc Date 10-24-62
 Depth at 8 AM 3665 4 PM 3785 Midnight 3850
 Driller's 12-8A Joe Malone 8A-4P Bob H. H. H. 4P-12 ...

FORMATION RECORD					
FROM	TO	FORMATION	FROM	TO	FORMATION
3620	3665	lime	3785	3850	lime
3665	2785	lime			

SLOPE TESTS			MUD RECORD						
DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLcc	AMOUNT	KIND
			1	12:00	10.5	29		15%	
			1	4:00	10.4	29		5%	
			1	6:00	10.2	40			
DRILL PIPE TRIPS			2	9:00	10.4	40	15	5	Mylor
DEPTH	REASON		2	2:00	10.5	38		5	Bals D.D.
3620	Bit # 8 in		2						
3850	Bit # 4		3	3:30	10.5	37	15	5	
			3	6:00	10.5	40		5	
			3	9:00	10.5	30			

Size Hole 7 7/8 Pump Pressure Midnight 750 Drill Pipe Wt. Midnight 72
 Bit No. 8 Size 7 7/8 From 3620 To 3850

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

12-8A Remarks: CES 1hr before trip @ 3:30 to 4:30 to hold a Max mud
1 1/2 hrs Co. time w. D.P.

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

4P-12 Remarks: Service Rig
Circle for samples & trips thru @ 3:50
1 hr. Co. time w. D.P.

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Rein # Well No. 1 County Neosho State Mo.

Contractor Rein # Date 10-25-63

Depth at 8 AM 3930 4 PM 4005 Midnight 4041

Driller's 12-8A Joe Clarke 8A-4P Bill [unclear] 4P-12 [unclear]

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
3850	3930	lime	4005	4041	lime
3930	4005	lime			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	1:00	10.3	43		10 ox	Hy-l-o-gal
			1	2:00	10.5	45	15	8 ox	oil-gal
			1	6:00	10.4	48			
DRILL PIPE TRIPS			2	8:00	10.2	42		5	MS-10-gal
DEPTH	REASON		2	12:00	10.3	42	8	5 gal	DD
4041	10		2				8	INF 205 lb	10 Halls
			3	1:15	10.4	40	8	4	MS-10-gal
			3	2:00	10.6	48		5	oil-gal
			3						

Size Hole 7 7/8 Pump Pressure Midnight 1100 Drill Pipe Wt. Midnight 80,000

Bit No. 9 Size 7 7/8 From 3850 To 4041

CASING RECORD

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

12-8A Remarks: Run in hole 3/4 hr. Good hole & mix mud 1/2 hr.
1/2 hr. C.O. Time W.D.P.

8A-4P Remarks: 12:00 1/2 hr. C.O. Time W.D.P.

4P-12, Remarks: 12:00 1/2 hr. C.O. Time W.D.P.
Circ. FA Samples vs Trip Time @ 4041'
2 hrs. W.D.P. Time 104' W.D.P.

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Reign Well No. 1 County Nevada State Nevada
 Contractor Reign Drilling Inc. Date 11-24-57
 Depth at 8 AM 4120 4 PM 4127 Midnight 4122
 Driller's 12-8A W. W. W. 8A-4P Carl F. Lander 4P-12 W. W. W.

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4041	4120	lime	4120	4242	
4120	4190	lime			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1	9:50	10.3	23	21	1/2	4 1/2
1	4:57	10.3	41	20	1/2	4 1/2
1	6:06	10.3	48			
2	8:00	10.2	58		AM 4101	1/2
2	12:00	10.2	32	2	6 3/4	1/2
2	2:20	10.3	43		2 NS	1/2
3	2:10	10.4	27		2 1/2	1/2
3	7:30	10.4	27	5	2 1/2	1/2
3	9:45	10.4	23			

DRILL PIPE TRIPS

DEPTH	REASON
4242	2 1/2" 11'

Size Hole 7 7/8 Pump Pressure Midnight 625# Drill Pipe Wt. Midnight 8 1/2
 Bit No. 10 Size 7 7/8 From 4041 To 4242

CASING RECORD

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

12-8A Remarks: Run 2 1/2" 10' in hole give 1/2 hr 2 1/2" hole 4 1/2" 1/2 hr

8A-4P Remarks: 1 1/2" 10' from 1/2" mud @ 4135 1/2 hr

4P-12 Remarks: Service Trip - 1 1/2" mud 12 hr @ 4210
Circ. FO Samples & Trip 1/2 hr @ 4242
1 1/2" 10' continue 10' 1/2 hr

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Peel Well No. 1 County Ness State Montana
 Contractor Peel Bros Inc Date 10-21-52
 Depth at 8 AM 4 PM 4:35 Midnight 4:34
 Driller's 12-8A 8A-4P 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4242	4290	lime			
4290	4339	lime			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1	2:00	10.4	45	700	4 gal	Mud-ge
1	2:10	10.4	45	700	6 gal	4 gal
1	2:15	10.4	45			
2		10.3	44		5 gal	D.D.
2		10.3	44			
2		10.3	45			
3		10.2	44	7		
3						
3					3	

DRILL PIPE TRIPS

DEPTH	REASON
4242	BIT # 1
4339	DST # 1

Size Hole 7 7/8 Pump Pressure Midnight Drill Pipe Wt. Midnight
 Bit No. 11 Size 7 7/8 From 4242 To

CASING RECORD

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

12-8A Remarks:

Ran in hole with 12" pipe 2 hr - 0
 con d. hole + 4000 ft

12 hr 30 time w. D.P.

8A-4P Remarks:

"K" Pipe (D.F.) at 4339 1 1/2 hr waiting on T.D.C.
 Pulled out - Hole was DST. # 1

Ahrs on time w. D.P.

4P-12 Remarks:

Ran in hole with 7 7/8" pipe 2 1/2 hr - 4000 ft
 DST # 1, given to 4000 ft, ESTD 4000 ft, Pull DST # 1
 Pottery mud, T. Mud, 2250 I.P.P. 0 I.P.P. 30 EST. 30
 flushed hole on second running in 30 mins. Ruled 200 times
 Run in hole 12 pit 7 7/8" @ 7:00 PM. Price & mixed mud
 11 hrs. & 1000 ft hole 1 hr.

7 3/4 hr on time w. D.P.

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Port 2 Well No. 1 County Mass State Mass
 Contractor Port 2 Date 11-27-63
 Depth of 8 AM 4392 4 PM 4413 Midnight 4413
 Driller's 12-8A Joe Clarke 8A-4P Carl V. Williams 4P-12 Joe Clarke

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4340	4393	lime	4413		
4393	4413	lime			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1	12:50	10.5	54		45x	Mulsicol
1	3:00	10.7	45	7	95x	200251
1						
2		10.3	46		4 Mulsicol	
2		10.5	47		5 Gal D.D.	
2		10.1	48	7.2		
3	3:00	10.2	45	7.2		
3						
3						

DRILL PIPE TRIPS

DEPTH	REASON
4413	DST # 2

Size Hole 7 7/8 Pump Pressure Midnight _____ Drill Pipe Wt. Midnight _____
 Bit No. 1 Size 7 7/8 From H2A2 To _____

CASING RECORD

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

12-8A Remarks: 1" FS @ 4390' 1/2 hrs Mixture 2 hrs
0 FS @ 4393 1 3/4 hrs @ Mixture
3 3/4 hrs Co Time U.P.

8A-4P Remarks: 11:54 Dr-10 7:54 10:04 0 FS @ 4400 1 1/2 hrs @ Mixture
Mixture 10:04 10:31 Dr-10 10:31 12:10 0 FS @ 4406 1 1/2
12:10 12:40 Dr-10 12:40 2:10 0 FS @ 4413 2 1/2 hrs @ Mixture
6 hrs Co Time U.P.

4P-12 Remarks: Service Rig & Wait on Testing Full out for DST # 2
Pickup Tool. Mixture hole. Testing mix. (4392-4413) 2 mins.
ISIP. 1/2 hrs Test. 1/2 hrs FSIP. 1/2 hrs. 121' cut out Mixture
2 Hyd. P. 2460 ICTP. 1370 IEP. 50 FFP. 70 FPIP. 1270
R. Hyd. P. 2440 work Blow through out test. Start hole
with bit
8 hrs Co Time U.P.

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Rein "A" Well No. 1 County Ness State Illinois

Contractor Pool Bros. Inc. Date 10-29-63

Depth at 8 AM 4413 4 PM Midnight

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

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: Rip in hole after test. O.B. to condition hole @ 12:50-2:30

2:30-5:30 Low down bit 5:30-6:30 Rig up to run casing.

6:30-7:00 Start running casing.

8A-4P Remarks: Run 136 pieces 4 1/2" new casing.

4P-12 Remarks: 136 pieces 4 1/2" new casing

136 pieces 4 1/2" 9.5 lb per foot 155 ccf
Cemented with 225 sacks of 50-50 Permox salt saturated cement
and 750 gal of mud flush plug down at 11:50 AM

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Bein Well No. A-1 County Ness State Nebraska

Contractor Bill Miller Date 12-1-57
 Depth at 8 AM 4 PM Midnight
 Driller's 12-8A Bill Miller 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: Set in pipe and string
up 11" tool and identify to depth

8A-4P Remarks: _____

4P-12 Remarks: _____

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Rein Well No. A-1 County Wessex State Kansas
 Contractor Bill Hayfield Co. Inc. Date 11-1-63
 Depth at 8 AM 1 4 PM 1 Midnight 1
 Driller's 12-8A Bill Tutman 8A-4P Bill Tutman 4P-12 Bill Tutman

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: Swabbed hole down, drilled cement & reworked almost an hour at 10:00 AM. Drilled 5000 feet down 12-8A. Drilled cement, from 41347 to 41400.

8A-4P Remarks: _____

4P-12 Remarks: _____

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease *Rein Force* Well No. *1* County *Wasa* State *Kansas*

Contractor *Shell Bros Drilling Co. Inc.* Date *11-2-68*

Depth at *8 AM 7 AM - 7 P.M.* 4 PM Midnight

Driller's *12-8A Bill Peterson* 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						
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: *Finished 100% cement & extra cement
 sent to bottom. Lost Bottom hole sample.
 Filled up no oil 130 ft in 2 hrs.
 moved casing back.*

8A-4P Remarks:

4P-12 Remarks:

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Rein Well No. F-1 County Johnson State Kansas

Contractor Bob Hay M.G. Co. Inc. Date 11-3-63

Depth at 7 AM 0 7 PM Midnight

Driller's 12-8A Bill Yurtman 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						
			2						
			2						
			2						
			3						
			3						
			3						

DRILL PIPE TRIPS

DEPTH	REASON	TOUR	TIME	WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
		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		TALL Y	CEMENTED AT	SACKS	K N D C E M T E
			F. COLLAR	SHOE				

12-8A Remarks: press into hole up 118-0 ft. Get Ready
and Rein 2" E.C.S. Casing,
Swabbed 2 hours 11/3/63
1 1/4' hr - 15.03 Blks. 1
2 1/2 " " - 5.01
3 1/2 " " - 5.59
4 " " - 1.62
5 " " - 1.55

8A-4P Remarks:

4P-12 Remarks:

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Rein Well No. F-1 County Wesco State Kansas
 Contractor Bill Hay Drilling Co. Inc. Date 11-4-63
 Depth at 7:00 AM 7:00 PM Midnight
 Driller's Bill Gutterman 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: iller with fill up 1193 ft. swapped
hole down. Tested -
cut Paddy & Run 175' Rods & 2-4' Runner
moved pumping unit in. got well on
ground.

8A-4P Remarks: _____

4P-12 Remarks: _____

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Rein Well No. F-1 County Wash State Kansas

Contractor Bill Hay Mfg. Co. Inc. Date 11-3-63

Depth at 8 AM 4 PM Midnight

Driller's 12-8A Bill L. Lusk 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: True Flow

8A-4P Remarks:

4P-12 Remarks:

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease RAIN A Well No. #1 County NESS State NEBRASKA
 Contractor Bill's Drilling Co. Inc. Date 11-2-1963
 Depth at 8 AM _____ 4 PM _____ Midnight _____
 Driller's 12-8A Bill Guteman 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: Mudline and rigged up. Pulled rods and testing

2 men and power tonge charged to Bill's Drilling Co. Inc.

8A-4P Remarks: _____

4P-12 Remarks: _____

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Rein A Well No. 1 County ness State Kansas

Contractor Bill Handberg Date 11-10-63

Depth at 8 AM 2:30 4 PM 4:15 Midnight

Driller's 12-8A Bill Burk 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: Unstrung tubing flocks. Pulled tubing line over mast. Made up tools and bailer. Run bailer and checked fluid level 1676'. Run bailer on to bottom and get flocks. Run tools and finished drilling log. Bailed hole clean. Used 1/2" hole. Pulled hole clean, no water. Tested 9 hrs. Drilled 1' near top. Bored hole clean - no water.

8A-4P Remarks:

4P-12 Remarks:

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Rein Well No. A County Reese State Texas
 Contractor Bill Handley Co. Inc. Date 11-11-63
 Depth at 8 AM 4 PM Midnight
 Driller's 12-8A Bill Pink 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: Pump boiler hole clean and no water. Tore down boiler and tools. Stopped tubing string. Pump 2" upset tubing and 1/4" rods. Hang well on top plunger.
Tore down rig

8A-4P Remarks:

4P-12 Remarks:

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease *FELIX* Well No. *A1* County *NES* State *Kan*

Contractor *F. J. ...* Date *3-18-64*

Depth at *5:30 AM* *7:30 PM* *12:00 AM* Midnight

Driller's *12-8A* *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: *...*
... *...* *...* *...* *...* *...* *...* *...*
... *...* *...* *...* *...* *...* *...* *...*
... *...* *...* *...* *...* *...* *...* *...*

8A-4P Remarks:

4P-12 Remarks:

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Kein H Well No. 1 County Ness State Kansas

Contractor Eastland Drilling Date 10-10-57

Depth at 8 AM 4 PM 155 Midnight 540

Driller's 12-8A Jack Blenko 8A-4P Eastland Drilling 4P-12 ...

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
			125	250	...
0	80	1/2" Sand & Buck	250	285	...
80	125	Shelled shells	385	410	...
			410	532	...
			532	570	Shale

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1					3	1500-2
			1					1	King
			1					3	Hills
DRILL PIPE TRIPS									
DEPTH	REASON								
			2						
			2						
			3						
			3						
			3						

Size Hole 12 1/4 Pump Pressure Midnight 750 Drill Pipe Wt. Midnight 56,600

Bit No. 1 Size 12 1/4 From 0 To 525

CASING RECORD

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

12-8A Remarks: Fig 6 P

8A-4P Remarks: Group dug Rathole 50.112 1145 - 11

4P-12 Remarks: at well on. broke trips. (since trip to ...)

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease *1-1-120* Well No. *A1* County *NES* State *Kansas*

Contractor *F. J. ...* Date *2-19-64*
 Depth at *7:30 AM* *7:45 PM* *12:00 PM* Midnight
 Driller's *12-8A* *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: *... from 12-8A ...*

8A-4P Remarks: *... 2nd 2.5' ...*

4P-12 Remarks:

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease FEIN Well No. A 1 County NESS State KANSAS
 Contractor Fuller Bros Date 2-21-1964
 Depth at 7:45 AM 7:45 PM 12:00 AM Midnight
 Driller's 12-8A 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: JOP found 1050 Down from top
including hole pressure 2' standing - top

8A-4P Remarks: _____

4P-12 Remarks: _____

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease REIN Well No. A 1 County N.E.S.S. State Kansas

Contractor Bell Drilling Co Date 3-21-1964

Depth at 7 AM 7 PM 12 PM Pig Time Midnight

Driller's 12-8A 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: TOP 1750' Payson Section TOP
Drill pipe to 1750' at 7 PM
From 24 to 24 Payson Section TOP

8A-4P Remarks: see 5 Drill Log 2" at 1750'

4P-12 Remarks:

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease F Well No. County State

Contractor <u> </u>	Date <u> </u>
Depth at <u>8 AM</u>	<u>7:4 PM</u> <u>10:00 PM</u>
Driller's <u>12-8A</u>	<u>8A-4P</u> <u>4P-12</u>

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 Pumo 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:

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease _____ Well No. 4-1 County 1-5 State _____

Contractor _____ Date _____
 Depth at 5:08-AM 174 PM Midnight
 Driller's 12-8A 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: _____

8A-4P Remarks: _____

4P-12 Remarks: _____

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease *A-1* Well No. *A1* County *NE* State *OK*

Contractor *CO* Date *2-12-1944*
 Depth at *7-8 AM* *24 PM* Midnight
 Driller's *12-8A* *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: *...*

8A-4P Remarks:

4P-12 Remarks:

**CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT**

Lease REIN Well No. A 1 County NESS State Kansas

Contractor: Bill Hays Date 3-17-1964

Depth at 72' ~~78'~~ 3:45 PM Midnight

Driller's 12-8A 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 Hoie 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: pull 31d pipe

8A-4P Remarks:

4P-12 Remarks:

CITY'S SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Pain Well No. 1 County _____ State _____
 Contractor Paul Date _____
 Depth at 8 AM _____ 4 PM 5.70 Midnight _____
 Driller's 12-8A _____ 8A-4P _____ 4P-12 _____

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
540		11200	570		
500	540	DIAGNOSTIC FORM	1215	1245	
520	570	Shale & Shells			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT
500	0	SVL-7
1050	1/4	✓

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
1108	BIT # 2

Size Hole 7 7/8 Pump Pressure Midnight _____ Drill Pipe Wt. Midnight _____
 Bit No. 1 K2F 1 ASC Size 7 7/8 From 540 1108 To 1119

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			F. COLLAR	SHOE				
<u>8 5/8</u>	<u>20#</u> <u>24#</u>	<u>SPS/</u> <u>MOLO</u>				<u>538'</u>	<u>300</u>	<u>40-mix 20%CC</u>

12-8A Remarks:

12:45
 8 5/8 ODE Pipe to 209' in 1 1/2 hrs
 29.23, Camp @ 12:45 AM.
 11200 6 hrs

8A-4P Remarks:

W.P.A. 11:00 PM to 11:30 PM
 Delg Flange 2:35 PM

4P-12 Remarks:

Service Trip @ 11:08 AM. Drilling
 No wt bit # 210 7 hrs got shale bit.

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Range Well No. 1 County Wash State Wash
 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
1340	1520	...	2276	...	
1520	1825	...			
1825		...			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT
1500	14	...
1000	1/2	...

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
...	...
2276	...

Size Hole 7 7/8 Pump Pressure Midnight 900# Drill Pipe Wt. Midnight 52
 Bit No. ... Size 7 7/8 From 1108 To 1825

CASING RECORD

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

12-8A Remarks:

Pull BIT #2 in 5/16 hr

8A-4P Remarks:

Get 50 ft bits
Triple 2276

4P-12 Remarks:

Service Rig. Finish ...
11/11 AM #11 @ #12 PM.

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Reid Well No. 1 County _____ State _____
 Contractor Parl Date _____
 Depth at 8 AM 8:50 4 PM 2:50 Midnight _____
 Driller's 12-8A 8A-4P _____ 4P-12 _____

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
2475		lime	2680	2750	lime
2475	2550	lime			
2550	2680	lime			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT
1500		
1500	1/2	...

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1						
1						
1						
2					14	fills
2						
2						
3						
3						
3						

DRILL PIPE TRIPS

DEPTH	REASON
2427	...

Size Hole _____ Pump Pressure Midnight 1101 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 ...

8A-4P Remarks:

8A-4P ...

4P-12 Remarks:

4P-12 ...

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Perm Well No. 1 County Nowata State Okla

Contractor _____ Date _____
 Depth at 8 AM 2965 4 PM 3035 Midnight 3170
 Driller's 12-8A _____ 8A-4P Ed V. Gaudin 4P-12 _____

FORMATION RECORD					
FROM	TO	FORMATION	FROM	TO	FORMATION
2750	2965	lime & shale	3035	3170	lime & shale
2865	3035	lime & shale			

SLOPE TESTS			MUD RECORD						
DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
3000	12	5/ft	1	11:10					
			1	11:15					
			1						
			2						
			2						
			2						
			3						
			3						
			3						

Size Hole 10 7/8 Pump Pressure Midnight 950 # Drill Pipe Wt. Midnight 26,000
 Bit No. 6 Size 7 1/2 From 2:23 To _____

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

12-8A Remarks: Bit trip @ 2760 Reason is ...

8A-4P Remarks: OK Rig Jet with pits ...

4P-12 Remarks: Service Rig Jet with pits ...