

CITIES SERVICE COMPAN.

ADDITIONAL INFORMATION

Daily Well History - Interim Report

INSTRUCTIONS: Interim Reports shall be completed and submitted with the Completion Report for the well. Interim Reports are required for all drilling wells and may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of each days Drilling Activity. Submit the Interim Report on all wells that have suspended drilling activity.

LEASE / UNIT NAME AND WELL NO.		REGION
O'Brien "A" #5		MCN
COUNTY - PARISH - STATE - PROVINCE		FIELD OR PROSPECT NAME
Ness, Kansas		Schaben
DATE AND DEPTH		AFE NUMBER
		9-1578915
DATE AND DEPTH		DESCRIPTION OF WORK PERFORMED
		Loc. S6-T20S-R21W, Ness County, Kansas.
8/29/80		FL @ 1350, TD 4373, 20' FU. Pf. Ft. Scott 4300-06, 4294-96 w/16 holes. Ran sand pump, CO 4378-81. Ran 4 1/2 RBP & packer on 132 joints tubing to 4092'. SD on.
8/30/80		Ran Ret. B.P., did not hold. Pulled Ret.B.P. for repairs.
8/31/80		Set Ret.B.P. at 4333'. Packer at 4314'. Ret.B.P. held OK. Loaded hole, spot acid on perforations 4300-06', 4294-96'. Set packer at 4273. Treated with 750 gals. 15% Ne acid. Pressure 1500#-350#. A.I.R. - 3 BPM. I.S.D.P. 350# 32 min. on Vac. Total load 40 1/2 barrels. Release packer, seating nipple at 4304'. Run pump and rods. P.O.P.
9/1/80		N.T.
9/2/80		N.T.
9/3/80		Pumped 18 B0 - 146 BW - 24 hrs. B.T. 64 x 12.
9/4/80		Down 8 hrs. Laying 2340'-2" PVC Schedule 40 lead line. B.O.P.
9/5/80		Pumped 4 B0 - 167 BW - 16 hrs. B.T. 64 x 12.
9/8/80		Pumped 13 B0 - 146 BW - 24 hrs. B.T. 64 x 12.
9/9/80		Pumped 10 B0 - 143 BW - 24 hrs. B.T. 64 x 12.
9/10/80		Pumped 10 B0 - 132 BW - 24 hrs. B.T. 64 x 12.
9/11/80		Pumped 10 B0 - 134 BW - 24 hrs. 64 x 12.
9/12/80		Pumped 10 B0 - 126 BW - 24 hrs. 64 x 12.
9/15/80		Pumped 9 B0 - 125 BW - 24 hrs. B.T. 64 x 12.
9/16/80		Pulled 3/4" rods, 1 1/2 pump. Released Ret.B.P. Pulled tubing and tools. Ran 3' Perf. Nip. & 1' seating nipple on 139 joints 2" EUE tubing. SN at 4378'. 1 1/2 pump on 173 - 3/4" rods. B.O.P.
9/17/80		Pumped 16 B0 - 144 BW - 24 hrs. B.T. 64 x 12.
9/18/80		Pumped 14 B0 - 130 BW - 24 hrs. B.T. 64 x 12.
9/22/80		Pumped 15 B0 - 132 BW - 24 hrs. B.T. 64 x 12.
9/23/80		Pumped 15 B0 - 122 BW - 24 hrs. B.T. 64 x 12.

SUBMIT ONE COMPLETED COPY TO ERG GENERAL OFFICE - TULSA

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INSTRUCTIONS: Interim Reports shall be completed and submitted with the Completion Report for the well. Interim Reports are required for all drilling wells and may also be used for recording daily work on significant workovers. The description of work performed on Interim Reports should be a complete report of each days Drilling Activity. Submit the Interim Report on all wells that have suspended drilling activity.

LEASE / UNIT NAME AND WELL NO. O'Brien "A" #5		REGION MCN
COUNTY - PARISH - STATE - PROVINCE Ness, Kansas	FIELD OR PROSPECT NAME Schaben	WELL NUMBER 9-1578915
DATE AND DEPTH	DESCRIPTION OF WORK PERFORMED	
9/25/80	Pumped 8 B0 - 122 BW - 24 hrs. 64 x 12.	
9/26/80	Pumped 12 B0 - 114 BW - 24 hrs. 64 x 12.	
9/29/80	Pumped 10 B0 - 111 BW - 24 hrs. B.T. 64 x 12.	
12/22/80	Down 24 hrs. SW line trouble. <u>Completed.</u>	

CHRONOLOGICAL DRILLING RECORD

Elevation: 2242 DF
2244 RB

Date of Report	Total Depth	Description of Work Performed
10-25-64		Location by Company Engineer: 150' South of Cen. NE SW Sec. 6-20-21W Ness County, Kansas, being 1980' FWL and 1830' FSL. Contractor: Pee Brothers, Inc.
10-26-64		Levelling location.
10-27-64		Digging pits; letting roads dry out.
10-28/30-64		MI, RURT.
10-31-64	512'	Spudded at 10:30 AM 10-30-64. Drilled 12 $\frac{1}{4}$ " surface hole to 512'; ran 17 jts. 8-5/8" OD 32# 10 V-thd. "C" grade casing at 510' cemented with 250 sx 50-50 Pozmix 3% HA-5, 50 sx common 3% HA-5; cement circulated. Plug down at 10:15 AM. WOC.
11-1-64	1745	Drilling (sh). 1/4° at 1000' and 0° at 1500'. Native mud.
11-2-64	2590	Drilling (ls). 1/4° at 2000' and 2500'. Native mud.
11-3-64	2900	Drilling (ls & sh). Lost some circ. at 2660. Native mud.
11-4-64	3243	Drilling (ls & sh). 1/4° at 3002. Native mud. Elevation 2242 DF, 2244 RB.
11-5-64	3550	Drilling (ls). Lost little mud at 3410. 0° at 3505. Wt. 10.3, vis. 37.
11-6-64	3795	Drilling (ls). Wt. 10.2, vis. 39, WL 16 cc. Pipe stuck at 3629, pulled loose. Board 1.22' short.
11-7-64	3970	Drilling (ls). Wt. 10.2, vis. 40, WL 20 cc. Top Heebner 3744 (-1499) Toronto 3765 (-1520); Lansing 3790 (-1545); 1' higher than O'Brien "A" #1 and 6' higher than Antenen "A" #1.
11-8-64	4095	Drilling (ls). 1/2° at 4020. Wt. 10.2, vis. 42, WL 18.5 cc.
11-9-64	4240	Drilling (ls and chert). Wt. 10, vis. 46, WL 18 cc.
11-10-64	4304	TD 4304; wt. 10.1, vis. 43, WL 10 cc. <u>DST #1 4292-4304</u> , Ft. Scott, 5-30-90-37, good to weak blow; recovered 366' gassy odor in drill pipe, 55' oil and gas-cut mud; ISIP 1333#, IFP 18#, FFP 36#, FSIP 1269#. Top Ft. Scott 4289 (-2044), 9' higher than Antenen "A" #1 and 4' higher than O'Brien "A" #1.
11-11-64	4384	TD 4384; wt. 10.1, vis. 49, WL 7.2 cc. <u>DST #2 4374-4384</u> , Miss., 15-45-75-62, fair blow throughout, recovered 252' free oil, 122' gassy muddy oil; ISIP 1437#, IFP 29#, FFP 163#, FSIP 1437#. Top Miss. 4374 (-2127); 12' high, O'Brien "A" #1, and 22' high, Antenen "A" #1.
11-12-64	4394	TD 4394; wt. 10.0, vis. 46, WL 9 cc. <u>DST #3 4384-4394</u> , Miss., 10-30-30-20, good blow throughout, recovered 316' free oil (38° at 60), 12 heavy mud and gas-cut oil; ISIP 1378#, IFP 27#, FFP 145#, FSIP 1369# Ran Schlumberger Laterolog survey 4397.
11-13-64	4394	RTD 4394; ran 135 jts. 4 $\frac{1}{2}$ " OD 9.5# J-55 casing at 4393' cemented with 100 sacks SS common cement, good circ. throughout, reciprocated pipe while cementing; plug down at 5:05 PM; shoe jt. 12.59'; used 5 - 4 $\frac{1}{2}$ " B&W centralizers at 4100, 4230, 4310, 4373 and 4386, and 3 - 4 $\frac{1}{2}$ " B&W wipers at 4345, 4381 and 4389. WOC.
11-14/17-64		WOC, and roads to dry up.
11-18-64/11-23-64		Waiting on roads to dry up.
11-24-64		MORT.
11-25-64		MORT.
11-26-64		MORT.
11-27-64		WOU.
11-28-64		WOU.

CHRONOLOGICAL DRILLING RECORD

Page 2

Date of Report	Total Depth	Description of Work Performed
11-29-64		WOU.
11-30-64		WOU.
12-1-64		Moving in unit today.
12-2-64		MI, RU; swabbed and bailed hole down; drilling on plug at 4379.
12-3-64		Drilled cement 4379-86½ PSTD. Ran Welex PFC log 4386½-4100'; perf. 4373-80 (Miss.) with 21 jets, swabbed 3.34 gals. water, trace oil, 1½ hrs., 1.67 gals. oil and 0.42 gals. water in 1½ hrs., 2.09 gals. oil and 0.42 gal. water in 1½ hrs.; 362' fillup in 15 hrs. Bailed 14.17 gals. oil, 3.36 gals. water off bottom.
12-4-64		Bailed 14.17 gals. oil, 3.36 gals. water off bottom; hole dry. Az. 4373-80 (Miss.) with 250 gals. 7½% BJ CA acid, 2090 gals. salt water flush, time 50 mins., pr. 1100-200# apsd to vac. in 5 mins. through casing, AIR 1.2 BPM; 77.1 bbls. load to recover. Swabbed 204.16 bbls. fluid, 8 hrs. (124.52 bbls. oil and 79.64 bbls. water); 2 bbls. over load. Last hr. 17.15 bbls. oil and 0.35 bbl. water (1.2% water and 0.3% BS). 3690' fluid fillup in 13 hrs.
12-5-64		Swabbed 59.19 bbls. fluid, 58.72 bbls. oil and 0.47 bbl. water, 2 hrs. Ran 2" EUE x 3' perf. nipple bull-plugged on bottom, 2" EUE x 1.2' seating nipple at 4378; tubing on location 3:30 PM; 1 - 2" EUE x 4' pup (4.34'), 139 jts. 2" EUE 8 rd. thd. 4.7# J-55 tubing (4355.42'), 2 - 2" EUE pup 8' and 4', 2 x 1½" x 12' RWT National fluid packed pumped, 1 - 3/4" x 2' Jones #2 pony rod, 174 (4350') 3/4" x 25' Jones #2 rods, 1 - 3/4" x 6' pony rod, 1 - 1¼" x 16' common steel pol. rod. Test tank full.
12-6-64		Treating oil.
12-7-64		Treating oil in test tank; State test 12-10-64.
12-8-64		Shut-in; State test 12-10-64.
12-9-64		Pumping pretest for State test; 57.31 fluid, 0.4% water, 8-3/4 hrs.
12-10-64		State Potential Test: 52.08 bbls. fluid in 8 hrs. for potential tes
12-11-64		of 156 bbls. oil, trace water, 24 hrs. Schaben-South Field. Allowa 44 bbls./day.

CC: Wichita Geol. Dept.

MISCELLANEOUS CHRONOLOGICAL REPORT
OBRIEN "A" #5
NESS COUNTY, KANSAS

08-09-89 Dumped 300 gal 28% FE. BW 2 BO & 32 BWPD.
 AW 2 BO & 28 BWPD. TC \$475.00.

cc: Chrono Book
 Well File
 C. W. Horsman

Ritchie Exploration, Inc.

Field Work Report

Lease O'Brien A/P Well Number 5
Field Supervisor Ness County Date 1-4-94
Type of Work Testing Well

M.I.P. 4. pull Rods and pump, Rods and pump
cut up, pull tubing, found spit on 134th
joint, 140 in Hole, Ran tubing 140 joint
4381 ft
Took water sample to Tritolite

Miles _____
Meals _____
Phone _____
Other _____

Service Unit plains Well Ser
Number of Hours _____

Driller _____

Bennie Dille

Field Supervisor

1- joint 2" tubing 1/yard
30.80

Ritchie Exploration, Inc.

Field Work Report

Lease O'Brien A/P Well Number 5
Field Supervisor Ness County Date 1-5-94
Type of Work _____

Chemical squeeze w/55 gal XC307, 10 BBH water
flush w/17 BBH water, pour 10 gal corrosion in hole
before running pump
Ban Rebuilt pump and rods
Changed out 125-3/4 rods
125-3/4 rods used & wakeney yard

will leave down 24 hours

Miles _____
Meals _____
Phone _____
Other _____

Service Unit plains Well Ser
Number of Hours _____

Driller

Bennie Dills

Field Supervisor

Ritchie Exploration, Inc.

Field Work Report

Lease O'Brien A/P Well Number 5
Field Supervisor Ness County Date 3-9-94
Type of Work Change Electric motor

pull off 15 H.P Electric motor
Set 20 H.P. 1110 R.P.M. w/ A. Pfannenstiel

15 H.P. H.P. motor to Moore yard

Unit Now running 13 1/4 S.P.M X 64" Stroke

Miles _____ Service Unit _____
Meals _____ Number of Hours _____
Phone _____
Other _____

Driller

Bennie Dilk

Field Supervisor

Ritchie Exploration, Inc.

Field Work Report

Lease O'Brien A/P Well Number 5
Field Supervisor Wesley County Date 11-24-93
Type of Work _____

Test 2" Tubing, 118 joints, 3 ~~bad~~ bad
pins, 1 bad collar

Miles _____ Service Unit _____
Meals _____ Number of Hours _____
Phone _____
Other _____

Driller

Field Supervisor

Ritchie Exploration, Inc.
Field Work Report

Lease O'Brien A Well Number 5
Field Supervisor New County Date 11-29-93
Type of Work _____

M.I.R. 4. Double down, Rigged sand pump
no fillup on bottom, T.D. 4397
Ran 15.00 mud hooker 1.10 seating nipple
140 joints 4381.38 feet 2" tubing set 3 1/2 feet
off bottom
S.D.F.N.

Miles _____ Service Unit _____
Meals _____ Number of Hours _____
Phone _____
Other _____

Driller
Field Supervisor

24 joints = 745.68 ft. / beyond yard

Ritchie Exploration, Inc.

Field Work Report

Lease O'Brien A Well Number 5
Field Supervisor New County Date 11-29-93
Type of Work _____

M.I.R. 4. Double down, Rigged sand pump
No fillup on bottom. T.D 4397
Ran 15.00 mud Anchor 1.10 seating nipple
140 joints 4381.38 feet 2" tubing set 3 1/2 feet
off bottom
S.D.F.N.

Miles _____ Service Unit _____
Meals _____ Number of Hours _____
Phone _____
Other _____

_____ Driller
_____ Field Supervisor

24 joints = 745.68 ft. / Lyons yard

Ritchie Exploration, Inc.

Field Work Report

Lease O'Brien A Well Number 5
 Field Supervisor Ness county Date 11-30-93
 Type of Work _____

Bigged to swab tubing, fluid level @ 70 ft
 from surface, 3700 ft of fillup.
 2400 feet oil on top, Swab back approx
 50 Bbls total fluid, till well cleaned up
 Ran pump & rods
 pump 2 1/2 x 14 RWT 5 ft plunger S.V. Brass pull tube
 pump
 pump guide
 2-sinker bars
 171-34 Rods New Helson C grade
 8-6-4-2 pony subs
 1 1/4 x 16 polish Rods
 8 ft liner

Miles _____ Service Unit _____
 Meals _____ Number of Hours _____
 Phone _____
 Other _____
 _____ Driller

 _____ Field Supervisor

2-sinker bars / Bernstorff B#4

Field Work Report

Lease O'Brien A Well Number 5
Field Supervisor Ness County Date 11-30-93
Type of Work _____

2400 feet oil on top, Gush back Approx
50 Bbls total fluid, till well cleaned up

Ran pump & rods

pump 2 $1\frac{1}{2} \times 14$ RWT 5 ft plunger S.V. Brass pull tube
pump

Sup guide

2. sinken bass

Apelson C grade

8-6-4-2 pony subs

1'4 X 16, Polish Rods

8 ft liner

When we stopped swabbing fluid level was @ 2800 feet.

Miles _____	Service Unit _____
Meals _____	Number of Hours _____
Phone _____	
Other _____	
_____	<i>Driller</i>

Field Supervisor

2 - sinker bars / Bernstorff B#4

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease 2001 Bore, Tex. Well No. 200 County 200 State 200
 Contractor 12-8A Date 12-8-51
 Depth at 8 AM 4 PM 200 Midnight 512
 Driller's 12-8A 8A-4P 512 4P-12 512

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
	200	Shale			
200	512	Shale Sandstone			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS	CONDITIONERS
					WEIGHT	VIS.-SEC. WLCC AMOUNT KIND
			1			36 lb Danis (50)
			1			20 lb 20/10
			1			100 lb 20/10
DRILL PIPE TRIPS			2			
DEPTH	REASON		2			
			2			
			3			
			3			
			3			

Size Hole 12 1/2 Pump Pressure Midnight 512 Drill Pipe Wt. Midnight 512
 Bit No. 12 1/2 Size 12 1/2 From 0 To 512

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 E'Brien "J" Well No. 5 County Ness State Ks.
Contractor Kool Bros Date 10-21-24
Depth at 8 AM 512 4 PM 1450 Midnight
Driller's 12-8A Kool Bros 8A-4P Kool Bros 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
512			512	815	Shale & sand
			815	825	Shale
			825	1000	Shale
			1000	1450	Shale & sand

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT
500	12	Swain
1000	12	✓

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
1500	Pipe down

Size Hole 7 7/8 Pump Pressure Midnight 1000 Drill Pipe Wt. Midnight 52000
Bit No. 1 Size 7 7/8 From 512 To

CASING RECORD

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

12-8A Remarks: 11 A.M.

8A-4P Remarks: 11 A.M. 1000 PSI 815-825

4P-12 Remarks:

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease Operation "A" Well No. 5 County Ness State Texas
 Contractor Reel Bros. Date 11-1-64
 Depth at 8 AM 1885 4 PM 2425 Midnight
 Driller's 12-8A Reel Bros. 8A-4P Reel Bros. 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
1450	1460	Shale	1885	2425	Shale + Sand
1460	1500	Shale			
1500	1885	Shale + Sand			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT
1500	0	Slope
2010	14	Slope

MUD RECORD

DEPTH	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
			WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1500	1						
2010	1						
	1						
	2						
	2						
	2						
	3						
	3						
	3						

DRILL PIPE TRIPS

DEPTH	REASON
1500	Bit + 2
2425	Bit + 2

Size Hole 11 7/8 Pump Pressure Midnight 100 Drill Pipe Wt. Midnight 62000
 Bit No. 2 Size 7 7/8 From 1500 To 2425

CASING RECORD

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

12-8A Remarks: Tripping + 2000 ft. - 2 B.W. / bit = 2 @ 1000 A.M.

Jan 21, 65

8A-4P Remarks: 2000 ft. - 2 B.W. / bit = 2 @ 1000 A.M.

4P-12 Remarks:

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease O'Brien "A" Well No. 5 County Ness State Kansas

Contractor Pool Bros. Date 11-2-64
Depth at 8 AM 2650 4 PM 2735 Midnight
Driller's 12-8A Examiner 8A-4P Examiner 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
2475	2650	Lime	2650	2735	L.

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
2500	2	S-2	1						
			1						
			1						
DRILL PIPE TRIPS			2	11:30	10.1	34		12 Huls	15 Salt Sol
DEPTH	REASON		2					5 H-10	
2650	217#4 OSL-7		2						
			3						
			3						
			3						

Size Hole 15/16 Pump Pressure Midnight 850 Drill Pipe Wt. Midnight 1200
Bit No. 2 Size 7/8 From 2475 To 2735

CASING RECORD

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

12-8A Remarks: OK Rig 1 R. W. Hilt # 10 12-25 Jet #1 P. 4

8A-4P Remarks: Some mud losing some mud @ 2660

4P-12 Remarks:

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease O'Brien "A" Well No. 5 County Noss State Ky.

Contractor Peel Bros. Inc. Date 11-3-64

Depth at 8 AM 2970 4 PM 3115 Midnight

Driller's 12-8A E. H. Hume 8A-4P E. H. Hume 4P-12

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
2970	2970	Limestone	2970	3115	Limestone

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
3100	4	S. 100	1		10	36		9	Spiral
			1					3	Ball
			1					1	Wells

DRILL PIPE TRIPS

DEPTH	REASON	TOUR	TIME	WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
		2						
		2						
		3						
		3						
		3						

Size Hole 7 7/8 Pump Pressure Midnight 500 Drill Pipe Wt. Midnight

Bit No. 11 Size 7 7/8 From 3115 To

CASING RECORD

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

12-8A Remarks:

8A-4P Remarks: Drill pipe trip - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 - 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 - 59 - 60 - 61 - 62 - 63 - 64 - 65 - 66 - 67 - 68 - 69 - 70 - 71 - 72 - 73 - 74 - 75 - 76 - 77 - 78 - 79 - 80 - 81 - 82 - 83 - 84 - 85 - 86 - 87 - 88 - 89 - 90 - 91 - 92 - 93 - 94 - 95 - 96 - 97 - 98 - 99 - 100 - 101 - 102 - 103 - 104 - 105 - 106 - 107 - 108 - 109 - 110 - 111 - 112 - 113 - 114 - 115 - 116 - 117 - 118 - 119 - 120 - 121 - 122 - 123 - 124 - 125 - 126 - 127 - 128 - 129 - 130 - 131 - 132 - 133 - 134 - 135 - 136 - 137 - 138 - 139 - 140 - 141 - 142 - 143 - 144 - 145 - 146 - 147 - 148 - 149 - 150 - 151 - 152 - 153 - 154 - 155 - 156 - 157 - 158 - 159 - 160 - 161 - 162 - 163 - 164 - 165 - 166 - 167 - 168 - 169 - 170 - 171 - 172 - 173 - 174 - 175 - 176 - 177 - 178 - 179 - 180 - 181 - 182 - 183 - 184 - 185 - 186 - 187 - 188 - 189 - 190 - 191 - 192 - 193 - 194 - 195 - 196 - 197 - 198 - 199 - 200 - 201 - 202 - 203 - 204 - 205 - 206 - 207 - 208 - 209 - 210 - 211 - 212 - 213 - 214 - 215 - 216 - 217 - 218 - 219 - 220 - 221 - 222 - 223 - 224 - 225 - 226 - 227 - 228 - 229 - 230 - 231 - 232 - 233 - 234 - 235 - 236 - 237 - 238 - 239 - 240 - 241 - 242 - 243 - 244 - 245 - 246 - 247 - 248 - 249 - 250 - 251 - 252 - 253 - 254 - 255 - 256 - 257 - 258 - 259 - 260 - 261 - 262 - 263 - 264 - 265 - 266 - 267 - 268 - 269 - 270 - 271 - 272 - 273 - 274 - 275 - 276 - 277 - 278 - 279 - 280 - 281 - 282 - 283 - 284 - 285 - 286 - 287 - 288 - 289 - 290 - 291 - 292 - 293 - 294 - 295 - 296 - 297 - 298 - 299 - 300 - 301 - 302 - 303 - 304 - 305 - 306 - 307 - 308 - 309 - 310 - 311 - 312 - 313 - 314 - 315 - 316 - 317 - 318 - 319 - 320 - 321 - 322 - 323 - 324 - 325 - 326 - 327 - 328 - 329 - 330 - 331 - 332 - 333 - 334 - 335 - 336 - 337 - 338 - 339 - 340 - 341 - 342 - 343 - 344 - 345 - 346 - 347 - 348 - 349 - 350 - 351 - 352 - 353 - 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688 - 689 - 690 - 691 - 692 - 693 - 694 - 695 - 696 - 697 - 698 - 699 - 700 - 701 - 702 - 703 - 704 - 705 - 706 - 707 - 708 - 709 - 710 - 711 - 712 - 713 - 714 - 715 - 716 - 717 - 718 - 719 - 720 - 721 - 722 - 723 - 724 - 725 - 726 - 727 - 728 - 729 - 730 - 731 - 732 - 733 - 734 - 735 - 736 - 737 - 738 - 739 - 740 - 741 - 742 - 743 - 744 - 745 - 746 - 747 - 748 - 749 - 750 - 751 - 752 - 753 - 754 - 755 - 756 - 757 - 758 - 759 - 760 - 761 - 762 - 763 - 764 - 765 - 766 - 767 - 768 - 769 - 770 - 771 - 772 - 773 - 774 - 775 - 776 - 777 - 778 - 779 - 780 - 781 - 782 - 783 - 784 - 785 - 786 - 787 - 788 - 789 - 790 - 791 - 792 - 793 - 794 - 795 - 796 - 797 - 798 - 799 - 800 - 801 - 802 - 803 - 804 - 805 - 806 - 807 - 808 - 809 - 810 - 811 - 812 - 813 - 814 - 815 - 816 - 817 - 818 - 819 - 820 - 821 - 822 - 823 - 824 - 825 - 826 - 827 - 828 - 829 - 830 - 831 - 832 - 833 - 834 - 835 - 836 - 837 - 838 - 839 - 840 - 841 - 842 - 843 - 844 - 845 - 846 - 847 - 848 - 849 - 850 - 851 - 852 - 853 - 854 - 855 - 856 - 857 - 858 - 859 - 860 - 861 - 862 - 863 - 864 - 865 - 866 - 867 - 868 - 869 - 870 - 871 - 872 - 873 - 874 - 875 - 876 - 877 - 878 - 879 - 880 - 881 - 882 - 883 - 884 - 885 - 886 - 887 - 888 - 889 - 890 - 891 - 892 - 893 - 894 - 895 - 896 - 897 - 898 - 899 - 900 - 901 - 902 - 903 - 904 - 905 - 906 - 907 - 908 - 909 - 910 - 911 - 912 - 913 - 914 - 915 - 916 - 917 - 918 - 919 - 920 - 921 - 922 - 923 - 924 - 925 - 926 - 927 - 928 - 929 - 930 - 931 - 932 - 933 - 934 - 935 - 936 - 937 - 938 - 939 - 940 - 941 - 942 - 943 - 944 - 945 - 946 - 947 - 948 - 949 - 950 - 951 - 952 - 953 - 954 - 955 - 956 - 957 - 958 - 959 - 960 - 961 - 962 - 963 - 964 - 965 - 966 - 967 - 968 - 969 - 970 - 971 - 972 - 973 - 974 - 975 - 976 - 977 - 978 - 979 - 980 - 981 - 982 - 983 - 984 - 985 - 986 - 987 - 988 - 989 - 990 - 991 - 992 - 993 - 994 - 995 - 996 - 997 - 998 - 999 - 1000 - 1001 - 1002 - 1003 - 1004 - 1005 - 1006 - 1007 - 1008 - 1009 - 1010 - 1011 - 1012 - 1013 - 1014 - 1015 - 1016 - 1017 - 1018 - 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1162 - 1163 - 1164 - 1165 - 1166 - 1167 - 1168 - 1169 - 1170 - 1171 - 1172 - 1173 - 1174 - 1175 - 1176 - 1177 - 1178 - 1179 - 1180 - 1181 - 1182 - 1183 - 1184 - 1185 - 1186 - 1187 - 1188 - 1189 - 1190 - 1191 - 1192 - 1193 - 1194 - 1195 - 1196 - 1197 - 1198 - 1199 - 1200 - 1201 - 1202 - 1203 - 1204 - 1205 - 1206 - 1207 - 1208 - 1209 - 1210 - 1211 - 1212 - 1213 - 1214 - 1215 - 1216 - 1217 - 1218 - 1219 - 1220 - 1221 - 1222 - 1223 - 1224 - 1225 - 1226 - 1227 - 1228 - 1229 - 1230 - 1231 - 1232 - 1233 - 1234 - 1235 - 1236 - 1237 - 1238 - 1239 - 1240 - 1241 - 1242 - 1243 - 1244 - 1245 - 1246 - 1247 - 1248 - 1249 - 1250 - 1251 - 1252 - 1253 - 1254 - 1255 - 1256 - 1257 - 1258 - 1259 - 1260 - 1261 - 1262 - 1263 - 1264 - 1265 - 1266 - 1267 - 1268 - 1269 - 1270 - 1271 - 1272 - 1273 - 1274 - 1275 - 1276 - 1277 - 1278 - 1279 - 1280 - 1281 - 1282 - 1283 - 1284 - 1285 - 1286 - 1287 - 1288 - 1289 - 1290 - 1291 - 1292 - 1293 - 1294 - 1295 - 1296 - 1297 - 1298 - 1299 - 1300 - 1301 - 1302 - 1303 - 1304 - 1305 - 1306 - 1307 - 1308 - 1309 - 1310 - 1311 - 1312 - 1313 - 1314 - 1315 - 1316 - 1317 - 1318 - 1319 - 1320 - 1321 - 1322 - 1323 - 1324 - 1325 - 1326 - 1327 - 1328 - 1329 - 1330 - 1331 - 1332 - 1333 - 1334 - 1335 - 1336 - 1337 - 1338 - 1339 - 1340 - 1341 - 1342 - 1343 - 1344 - 1345 - 1346 - 1347 - 1348 - 1349 - 1350 - 1351 - 1352 - 1353 - 1354 - 1355 - 1356 - 1357 - 1358 - 1359 - 1360 - 1361 - 1362 - 1363 - 1364 - 1365 - 1366 - 1367 - 1368 - 1369 - 1370 - 1371 - 1372 - 1373 - 1374 - 1375 - 1376 - 1377 - 1378 - 1379 - 1380 - 1381 - 1382 - 1383 - 1384 - 1385 - 1386 - 1387 - 1388 - 1389 - 1390 - 1391 - 1392 - 1393 - 1394 - 1395 - 1396 - 1397 - 1398 - 1399 - 1400 - 1401 - 1402 - 1403 - 1404 - 1405 - 1406 - 1407 - 1408 - 1409 - 1410 - 1411 - 1412 - 1413 - 1414 - 1415 - 1416 - 1417 - 1418 - 1419 - 1420 - 1421 - 1422 - 1423 - 1424 - 1425 - 1426 - 1427 - 1428 - 1429 - 1430 - 1431 - 1432 - 1433 - 1434 - 1435 - 1436 - 1437 - 1438 - 1439 - 1440 - 1441 - 1442 - 1443 - 1444 - 1445 - 1446 - 1447 - 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1877 - 1878 - 1879 - 1880 - 1881 - 1882 - 1883 - 1884 - 18

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease O'Brien Well No. 5 County Ness State Kansas

Contractor Paul Bros. Inc. Date 11-11-62
 Depth at 8 AM 3245 4 PM 3315 Midnight 3430
 Driller's 12-8A E. H. H. H. 8A-4P E. H. H. H. 4P-12 C. J. N.

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
2115	3245	limestone	2315	3430	lime

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	1:00	10.3	38		7	Soft soil
			1	3:00	10.4	36		3	Dark soil
			1	6:00	10.3	37			
DRILL PIPE TRIPS			2						
DEPTH	REASON		2						
3315			2						
			3					345 lbs	starch
			3					100 #	Pec
			3					60 H. lbs	1. Fiber

Size Hole 15 1/2 Pump Pressure Midnight Drill Pipe Wt. Midnight

Bit No. 5 Size 7 1/2 From 3007 X 3315 To 3715

CASING RECORD

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

12-8A Remarks:

8A-4P Remarks:

4P-12 Remarks:

Test P. 12 to mud up mix 345 lbs starch 100 # Pec
losing mud 3410-15 mix H. lbs + Fiber

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease O'Brien "A" Well No. 5 County Ness State Kansas
 Contractor Kerr Bros. Inc. Date 11-5-64
 Depth of 8 AM 3500 4 PM 3621 Midnight 3710
 Driller's 12-BA [Signature] 8A-4P [Signature] 4P-12 [Signature]

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
3420	3500	Lime	3621	3710	Lime
3500	3621	Lime			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT
3500	0	7-0

MUD RECORD

TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
		WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
1	12:30	10.3	3.5		5	Starch
1	3:30	10.3	3.5			
1	6:30	10.3	3.5			
2	8:30	10.3	4.2	16	2	Starch
2	1:00	10.3	3.7		3	Starch
2						
3						3 Starch
3						3 Davis Cel
3						3 Starch

DRILL PIPE TRIPS

DEPTH	REASON
3621	Bit #7 down

Size Hole 7 7/8 Pump Pressure Midnight 500 Drill Pipe Wt. Midnight -
 Bit No. X 7 Size 7 7/8 From 3500 X 2621 To 3621

CASING RECORD

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

12-BA Remarks: 5

8A-4P Remarks: Strap D.P. into section
Drillable.

4P-12 Remarks: Service Rig Change Thermostat & motor
Rumr hole up bit 5:30 to 6:00 and hole
last 15 stands tight circ. Circumference 3 1/4 hr @ 3690
1 1/4 hrs C.O. time u/D.P.
Strap 362952
Read 362830
DIFF 122

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Oilman A Well No. #5 County IKES State KANSAS
 Contractor W. J. H. Co. Date 11-6-64
 Depth at 8 AM 3865 4 PM 3865 Midnight 3920
 Driller's 12-8A 12-8A 8A-4P 12-8A 4P-12 12-8A

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
3210	3865	lime	3865	3920	lime

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	12:00	10.2	37	16	35K5	572-64
			1	3:30	10.2	38			
			1	5:30	10.2	39			
DRILL PIPE TRIPS			2	7:35	10.3	40	20	2.5K5	572-64
DEPTH	REASON		2				20	1.5K5	572-64
			2				20	2.5K5	572-64
3920	BIT		3		10.2	41	20	3.5K5	572-64
			3		10.2	42	20		
			3	9:00	10.3	42	20		

Size Hole 7 7/8 Pump Pressure Midnight 900 Drill Pipe Wt. Midnight 50000
 Bit No. 7 Size 7 7/8 From 3621 To 3920

CASING RECORD

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

12-8A Remarks: 1/2 hr. Co. Time w/D.P.

8A-4P Remarks: 1/4 hr. Co. Time w/D.P.

4P-12 Remarks: 1/4 hr. Co. Time w/D.P.

1 1/4 hrs Co. Time w/D.P.

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease Prion "A" Well No. 5 County Ness State KansasContractor Peel Bros. Inc.Date 11-7-64Depth at 8 AM 39204 PM 4010Midnight 4037Driller's 12-8A Barman8A-4P Barman4P-12 Barman

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
3920	3970	Lime	4010	4027	Lime
3970	4010	Lime			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
4020	42	1.50	1	3:00	10.3	40	20	3	Starch
			1	6:00	10.2	40		3	Hulls
			1					3	Fiber
DRILL PIPE TRIPS									
DEPTH	REASON								
4037	Rit		2	12:00	10.3+	38			
			3		10.1	40			
			3						
			3					2 SFS	Starch

Size Hole 7 7/8Pump Pressure Midnight 550

Drill Pipe Wt. Midnight

Bit No. 8Size 7 7/8From 3920To 4037

CASING RECORD

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

12-8A Remarks: Drill hole with #8 condition hole + mix mud 2 hr.O.R. @ 1:0012 hr. @ 10/DP8A-4P Remarks: Drill hole with #8 condition hole + mix mud 3 1/4 hr.4P-12 Remarks: Drill hole with #8 condition hole + mix mud 1 hr @ 4037 SFSRun 10/DP1 1/4 hr @ 10/DP

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease OKR... 11 Well No. 5 County Ness State Nebraska

Contractor Franklin Date 11-7-32
Depth at 8 AM 4075 4 PM 4165 Midnight 4205
Driller's 12-8A Franklin 8A-4P W. H. Farmer 4P-12 C. W. V.

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4075	4095	lime	4165	4205	lime
4095	4165	lime			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1	3:00	10.1	42	18.5	2	Starch 70
			1	6:00	10.2	42		4	Salt-mud
			1					2	Devil's
DRILL PIPE TRIPS									
DEPTH		REASON	2	7:45	10.2	41		3 Starch	3 Salt & Hel
			2	9:12	10.1	42	18	1 Davis Hel	50# Press.
			2						
			3	7:25	10.2	45		155#	Starch
			3	7:00	10.2	48			
			3						

Size Hole 11 1/2 Pump Pressure Midnight 550 Drill Pipe Wt. Midnight
Bit No. 7 Size 11 1/2 From 4075 To

CASING RECORD

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

12-8A Remarks: Run - back out to mud pump. Condition good but mud pump

O.R. run to 4075

1/2 hr. Co time w/D.F.

8A-4P Remarks: Service Rig. Mix mud 1/2 hr. @ 4124.

4P-12 Remarks: 1/2 hr. Co. time w/D.F.

O.F.S. trip 1 hr to 4205
4075 - 4205 on double

3/4 hr Co time w/D.F.

CITIES SERVICE OIL COMPANY DAILY DRILLING REPORT

Lease O'Brien "A" Well No. 5 County Nevada State Kansas

Contractor Pool Bros. Inc. Date 11-9-64
Depth at 8 AM 4240 4 PM 4290 Midnight 4304
Driller's 12-8A [Signature] 8A-4P [Signature] 4P-12 [Signature]

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4205	4240	Lime (Cherty)	4290	4304	Lime
4240	4290	Lime, chert, shale			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS	CONDITIONERS
					WEIGHT VIS.-SEC. WLCC	AMOUNT KIND
			1	4:00	9.7 20 :8	
			1	6:00	10 46	
			1			
DRILL PIPE TRIPS			2	8:45	10.1 42	4 Starch 6 Salt Sol.
DEPTH	REASON		2	12:12	10.1 43 10	2 Davis Hole 2 Halls.
4304	DST #1		2	2:45	10.1 43	2 Fiber.
			3			
			3			
			3			

Size Hole 7 5/8 Pump Pressure Midnight Drill Pipe Wt. Midnight
Bit No. 10 Size 7 5/8 From 2205 To

CASING RECORD

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

12-8A Remarks: 1/2 Trip in hole. Condition hole 2 ft. Drilling unit

1/2 hr. continuous drilling

8A-4P Remarks: Service Rig. mix mud 1 hr. @ 4290

1 hr. continuous drilling

4P-12 Remarks: mix for S.P.S. & wait on test @ 4304
Full out of hole pickup test tool remaining in hole w/ same

6 1/4 hr. continuous drilling

CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT

Lease O'Brien A Well No. 5 County Nassau State Kansas
 Contractor Paul R. ... Date 11-10-64
 Depth at 8 AM -304 4 PM 4350 Midnight 4394
 Driller's 12-8A Buchanan 8A-4P E. H. ... 4P-12 C. ...

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4204			4350	4384	lime & chert
4304	4350	Lime, Shale, Sand, Lime			

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1					4	Starch
			1					4	Salt mud
			1					2	Davis oil
DRILL PIPE TRIPS			2	9:30	10.1	50		4 Starch	5 Salt mud
DEPTH	REASON		2	11:00	10	46	7.2	2 Davis oil	2 Davis oil
4204	DIS. T. #1		2					1 Starch	
			3					5 Starch	
			3					6 Starch	
			3					3 Starch	

Size Hole 7 7/8

Pump Pressure Midnight

Drill Pipe Wt. Midnight

Bit No. 11Size 7 7/8From 4204

To

CASING RECORD

SIZE	WEIGHT	MAKE	MAKE		TALLY	CEMENTED AT	SACKS	KIND CEMENT
			P. COLLAR	SHOE				
						8 hrs. Co. Time		W.D.P.

12-8A Remarks: C.R. w/dst. #1 @ 430 open 5 min. Closed 2 hr. Open 15 hr. Closed 1 hr. Good blow throughout 4-10.

Run in hole w/bit #11 Hit bridge wire. 1332 T-18 18 1/2 hr.

Run in hole w/bit #11 Hit bridge wire. 1332 T-18 18 1/2 hr.

Run in hole w/bit #11 Hit bridge wire. 1332 T-18 18 1/2 hr.

8A-4P Remarks: Mix mud & L.C.M. 1/2 hr. @ 4304. Service Rig.

Circ. For Samples 1/4 hr. @ 4350.

1 3/4 hr. Co. Time w/D.P.

4P-12 Remarks: C.F.S. 1 1/2 hr @ 4320 C.F.S. 1 1/2 hr @ 4326 C.F.S. 1 1/2 hr @ 4326 C.F.S. 1 1/2 hr @ 4326 wait on tester

5 1/2 hrs. Co. Time w/D.P.

CITIES SERVICE OIL COMP/ 'Y
DAILY DRILLING REPORT

Lease O'Brien A Well No. 5 County Ness State Kansas

Contractor Poe Bros. Inc. Date 11-11-64

Depth at 8 AM 4384 4 PM 4394 Midnight 4300

Driller's 12-8A *[Signature]* 8A-4P *B. Hasner* 4P-12 *Cain*

FORMATION RECORD

FROM	TO	FORMATION	FROM	TO	FORMATION
4384					
4384	4394	Lime			

SLOPE TESTS

DEPTH	DEGREES	INSTRUMENT

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1		10.1	49	7.2		
			1						
			1						
DRILL PIPE TRIPS					2				
DEPTH	REASON		2	12 ⁴⁵	9.9	45	9.0	85 lbs	3 SALT
4354	DST # 2		2					3 Davis Ad.	
4394	DST # 3		2						
			3					95 lbs	5 1/2 m.
			3					35 lbs	1 Davis m.
			3						

Size Hole $7\frac{3}{8}$

Pump Pressure Midnight

Drill Pipe Wt. Midnight

Bit No. 12

Size 7 1/2 X

From 4354

To

CASING RECORD

[illegible]

12-8A Remarks: 11:00-11:15 Whit on tower. 11:15-1:50 Pull out of hole. Pick up
tester O.B. w/ tool @ 1:50. Open $\frac{1}{4}$ hr., Closed $\frac{3}{4}$ hr., Open $\frac{1}{2}$ hr., Closed 1 hr.
Pull test. 390° Fluid. wait on daylight 6:30-7:00
Good blow thru-out Test.
Testing 4374-4384 - 10' Anchor.

8 hrs. C. Time w/D.P.

8A-4P Remarks:	Finish Pulling DST #2. Log down 10 ft. & Recd.	252' 1"
Run 2 hole w/ Bit #12	10:35 Am.	122' m. G.
Circ. & Cond. hole, mix mud. Drlg. @ 11 3/4 Am.		ESTP 143
Circ. For Samples 1 & 2 @ 4394.		TE 20
Pull out of hole for DST #3 4374-94'		EE 18
		ESTP 143

7 1/4 hr. Cont. Time of RR.

4P-12 Remarks: Run in hole w/ DST #3 pulled same laydown tool Run in hole w/ IT Air cond. Hole for log + sampled @ 10.30	ISIP 1378 IF 27 EE 145
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DST # 4384-94 Foo/0 Dec (1/4 - 1/2 - 1/2 - 1/4)
 84-5 co. 1 time w/p.p.

CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT

Lease <u>O'Brien "A"</u>	Well No. <u>5</u>	County <u>Ness</u>	State <u>Kansas</u>
Contractor <u>Boh Bros. Inc.</u>	Date <u>11-12-64</u>		
Depth at 8 AM <u>4394</u>	4 PM <u>4394</u>	Midnight	
Driller's 12-BA <u>Behan</u>	8A-4P <u>Cain</u>	4P-12 <u>Cain</u>	

FORMATION RECORD

[illegible]

SLOPE TESTS

MUD RECORD

DEPTH	DEGREES	INSTRUMENT	TOUR	TIME	CHARACTERISTICS			CONDITIONERS	
					WEIGHT	VIS.-SEC.	WLCC	AMOUNT	KIND
			1		10	47	7		
			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

[illegible]

12-8A Remarks: 11:00-12:30 Pice. for logs. 12:30-2:00 P. 11 out of hole
2:00-4:00 hearing. Suburberger T.O. 4820
4:00-6:00 going to go to exhibit
4 hrs. 3. Time w.o.R. 4 hrs. 3. Time w.o.R.

8A-4P Remarks: Filled in hole w/ R.T. Cond hole 1 1/2 hr. before
 Lay down D.P. 8A-2 7:30 - 10:00 Lay down D.P. start Run

4P-12 Remarks: Finish Run 4 1/2 Casing Cement Sand
Plug Down @ 5:15

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease *O'Brien* Well No. *5* County *Shaw* State *Kansas*Contractor *B.M. Drilling Co.* Date *12-2-64*
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

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: *Finished drilling 12-8A and 5' of cement string at 12-8A to top and perforate 4273' to 4280'. Testing with bailer, 2 dips - 10% water.*

8A-4P Remarks:

4P-12 Remarks:

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease *B. P. 1000* A Well No. *5* County *Neosho* State *Kansas*Contractor *Bill Hay Del Co. Inc.*Date *12-1-64*

Depth at 8 AM

4 PM

Midnight

Driller's 12-8A *Bill Bid-K*

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: *Moved and rigged up. Swabbed hole down. Took off swab
Put in bit, drilled 30' of soft cement and rubber plug*

8A-4P Remarks:

4 1/2" Oil State swab cups - 2

4P-12 Remarks:

CITIES SERVICE OIL COMPANY
DAILY DRILLING REPORT

Lease *O'Brien* Well No. *5* County *Leas* State *Kansas*
 Contractor *Bill Kay Drilling Co.* Date *12-1-54*
 Depth at 8 AM 4 PM Midnight
 Driller's 12-8A *Bill Fink* 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
			P. COLLAR	SHOE				

12-8A Remarks: *Run bailer to fluid and bring out 6 1/2' down. 36.90' of oil in hole. Run bailer to bottom 2 quarts clear water. All tank dished 60 lbs oil to fill tank. Break down bailer and take it down up tubing. Help on mixed rods and tubing. Run drill pipe. 2 perforated nipple, 1 seating nipple. 1-4' sub, 139 ft 2" upset tubing. 2-4' sub. Run under pump, 1-3 1/2' x 2' and 1 1/4' rods, 1-6' sub, 16' polished.*

8A-4P Remarks:

3 1/2" Oil state oil - 2

4P-12 Remarks:

CITIES SERVICE OIL COMPANY

DAILY DRILLING REPORT

Lease O'Brien Well No. 5 County Leas State Kansas
 Contractor Bill Kaye Co. Inc. Date 12-5-64
 Depth at 8 AM 4 PM Midnight
 Driller's 12-8A Bill E. Smith 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: Drill pipe pump line unit in to well and down well to unit.
Layed line to test hole. Test pressure 12-5-64

8A-4P Remarks:

4P-12 Remarks: