

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

API NO. 15- 189-21910 - 0000  
County Stevens  
- SW - NE - SW Sec. 25 Twp. 32S Rge. 37 X E

Operator: License # 5208

1390 Feet from S/N (circle one) Line of Section

Name: Mobil Oil Corporation

1490 Feet from E/W (circle one) Line of Section

Address P.O. Box 2173

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

2319 North Kansas Avenue

Lease Name Lightcap #1 Unit Well # 2

City/State/Zip Liberal, KS 67905-2173

Field Name Hugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 3140 KB 3150

Phone (316) 626-1142

Total Depth 2965 PBDT 2910

Contractor: Name: Murfin Drilling Co., Inc.

Amount of Surface Pipe Set and Cemented at 673 Feet

License: 30606

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: L. J. Reimer

If yes, show depth set NA Feet

Designate Type of Completion  
X New Well Re-Entry Workover

If Alternate II completion, cement circulated from NA

Oil SWD SIOW Temp. Abd.  
X Gas ENHR SIGW  
Dry Other (Core, WSW, Expl., Cathodic, etc)

feet depth to NA w/ NA sx cmt.

Drilling Fluid Management Plan ALT 1 11-25-96  
(Data must be collected from the Reserve Pit)

If Workover:

Chloride content 15,000 ppm Fluid volume None bbls

Operator: \_\_\_\_\_

Dewatering method used Waste Minimization Mud System

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Deepening Re-perf. Conv. to  
Plug Back PBDT  
Commingled Docket No.  
Dual Completion Docket No.  
Other (SWD or Inj?) Docket No.

Operator Name Mobil Oil Corporation

Lease Name \_\_\_\_\_ License No. 5208

3-31-95 4-5-95 4-25-95  
Spud Date Date Reached TD Completion Date

Quarter Sec. Twp. S Rng. E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Sharon A. Cook Sharon A. Cook

Title Regulatory Assistant Date 7-5-95

Subscribed and sworn to before me this 5th day of July, 1995.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998  
5-123.kcc

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)



Operator Name MOBIL Oil Corporation Lease Name Lightcap #1 Unit Well # 2  
 Sec. 25 Twp. 32S Rge. 37  East County Stevens  
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)  
 List All E.Logs Run:

Log	Formation (Top), Depth and Datums	Sample
Name	Top	Datum
Glorietta	1272	1434
Stone Corral	1738	1795
Chase	2608	2937
Council Grove	2937	--

Dual Induction Focused Log - Gamma Ray Caliper  
 Z-Densilog Compensated Neutron Spectralog  
 Caliper Log - Gamma Ray

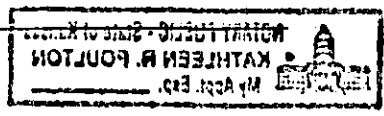
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Casing	12.250	8.625	24#	673	Class C Class C	210 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2955	Class C Class C	210 150	3% D79 2% B28

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	See Attached Well History		

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
4-21-95				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
		787		

Disposition of Gas:  Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled 2603  
 (If vented, submit ACO-18.)  Other (Specify) 2836



Well Data - Well History Report

Lease: LIGHTCAP #1 UNIT WELL #2 Well #: 2 Well ID: 0053366  
 API #: 15-189-21910-00 State: KS County: STEVENS  
 Ppty ID: 2058800 OCSG #:

Spud Date: 03/31/1995 Ground Level Elev.: 3140 KB Height: 0  
 Spud Time: 20:00 Original Ref Point: KB BH Height: 11  
 DF Height:

ORIGINAL

Drilling Job Start/End: 03/31/95 @ 20:00 to 04/05/95 @ 07:15  
 Completion Job Start/End: 04/10/95 @ 08:00 to 04/25/95 @ 17:00

DATE	ACTIVITY
04/01/95	CASING OD: 8.625, 24.00# J55, Top/Bot: 0/673
04/04/95	CASING OD: 5.500, 14.00# J55, Top/Bot: 0/2955
04/11/95	PERFORATIONS: 2603-2613 1.0 JSPF; 2632-2642 1.0 JSPF 2663-2683 S 1.0 JSPF; 2713-2733 . 1.OPJSPF; 2761-2771 . 1.OPJSPF 2781-2801 1.OJSPF; 2826-2836 1.OJSPF 2761-2771 . 1.OPJSPF

WELLBORE SUMMARY

API WB#	Creation Date	Top	TD	Diam(@TD)	Plug Back Date	Plug Back Depths PBT
00	03/31/95	0	2965		04/05/95	2965
00	03/31/95	0	2965		04/25/95	2910

STATE RECEIVED  
 CORPORATION COMMISSION  
 JUL 6 1995  
 CONSERVATION DIVISION  
 WICHITA, KANSAS

CASING SUMMARY

Date RUN	String	OD	ID	Grade	Wt/FT	Connection	Top/Bot
04/01/95		8.625	8.097	J55	24.00	STC	0/673
04/04/95		5.500	5.012	J55	14.00	STC	0/2955

PERFORATION SUMMARY

Perf Date	Top Perf	Btm Perf	Zone Name	SPF	Phase (deg)	Hole Size	J/B	Sqzd
04/11/95	2603	2613	HERINGTON	1.0	120	0.33	J	
04/11/95	2632	2642	UPPER KRIDER	1.0	120	0.33	J	
04/11/95	2663	2683	LOWER KRIDER	1.0	120	0.33	J	
04/11/95	2713	2733	WINFIELD	1.0	120	0.33	J	
04/11/95	2761	2771	TOWANDA	1.0	120	0.33	J	
04/11/95	2781	2801	TOWANDA	1.0	120	0.33	J	
04/11/95	2826	2836	FT. RILEY	1.0	120	0.33	J	

Well Data - Well History Report

=====
WELL-TREATMENT TIME CODE ACTIVITY
=====

Table with 4 columns: DATE, HOURS, CODE, ACTIVITY. Contains two entries for 1996-04-11 with codes 657 and 655, detailing acidizing and fracturing treatments.

Report Generated on: 07/05/95 @ 11:41

End of Report...

=====

**CEMENTING SERVICE REPORT**

Schlumberger

Dowell

**DOWELL SCHLUMBERGER INCORPORATED**

TREATMENT NUMBER **03 12 6997** DATE **4-1-95**

STAGE **DS** DISTRICT **ULYSSES, KANSAS**

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. <b>LIGHTCAP #2-1</b>		LOCATION (LEGAL) <b>SEC. 25-32S-37W</b>		RIG NAME: <b>MURFIN # 24</b>					
FIELD-POOL <b>HUGOTON</b>		FORMATION <b>SURFACE</b>		WELL DATA:		BOTTOM		TOP	
COUNTY/PARISH <b>STEVENS</b>		STATE <b>KANSAS</b>		API. NO.		BIT SIZE <b>12 1/4"</b>		CSG/Liner Size <b>8 5/8"</b>	
NAME <b>Mobil Oil Corp.</b>		AND		ADDRESS		TOTAL DEPTH		WEIGHT <b>24#</b>	
SPECIAL INSTRUCTIONS <b>SAFETY CEMENT 8 1/8" USING AS DIRECTED BY CUSTOMER.</b>		ZIP CODE		MUD TYPE <b>WB</b>		FOOTAGE <b>1673</b>		GRADE	
IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		LIFT PRESSURE <b>248</b> PSI		CASING WEIGHT SURFACE AREA <b>2.48</b> (3.14 x R <sup>2</sup> ) CM <sup>2</sup>		MUD DENSITY <b>9</b>		LESS FOOTAGE; SHOE JOINT(S)	
PRESSURE LIMIT <b>2000</b> PSI		BUMP PLUG TO <b>200-400 + LIFT</b> PSI		ROTATE <b>8</b> RPM		RECIPROCATE <b>8</b> FT		No. of Centralizers <b>5</b>	
MUD VISC. <b>7</b>		Disp. Capacity <b>629.41</b>		MUD VISC. <b>7</b>		Disp. Capacity <b>629.41</b>		TOTAL <b>629.41</b>	

SPECIAL INSTRUCTIONS		SHOE		HEAD & PLUGS		TOOL		SQUEEZE JOB	
TYPE <b>Baffle PLATE</b>		DEPTH <b>629.41</b>		TYPE <b>TX PATTERN</b>		DEPTH <b>673</b>		TYPE	
SIZE		WEIGHT		GRADE		THREAD		TAIL PIPE: SIZE DEPTH	
TOP <input checked="" type="checkbox"/> NEW <input type="checkbox"/> USED		BOT <input type="checkbox"/> NEW <input type="checkbox"/> USED		DEPTH		TOTAL		ANNUAL VOLUME	

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME: 11:30	DATE: 4/1/95	TIME: 11:30	DATE: 4/1/95
0001 to 2400											
14:24								PRE-JOB SAFETY MEETING			
14:25		1000				WTN	8.33	START JOB			
14:32		120	25		5.8	WTN	8.33	PRESSURE TEST LINES. TEST OK			
14:34		120	31	25	5.9	CMT	12.8	START WTL AFTER BLEAIR CIRCULATION			
14:42		120	33	96	5.9	CMT	14.6	START LEAD			
14:59		120	37	129	5.9	CMT	14.6	START TAIL			
15:02		100	40	129	5.5	4.0	8.33	SHUTDOWN DROP TOP PLUG			
15:09		150		129	5.5	4.0	8.33	START DISPLACEMENT			
15:16		1000		170.5	5.5	4.0	8.33	LOWER RATE			
15:17		400		170.5	5.5	4.0	8.33	BUMP TOP PLUG			
								BLEED PRESS. DOWN TO 400 PSI AND START IN WTL CMT HEAD			

REMARKS \* Bump plug @ 11.5 Bbls Displacement x Press. Prior to Bumping Plug ± 260 psi

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS					SLURRY MIXED	
			POZ/C	D2O	SI	DA4	BW	BBLS	DENSITY
1.	210	1.99	50/50	POZ/C	+ 6.1% D2O	+ 3.1% SI	+ 5.1% DA4 (BW)	70.69	12.8
2.	150	1.22	50/50	POZ/C	+ 2.5% SI	+ 1/4 #/SK D29	32.59	14.6	
3.									
4.									
5.									
6.									

BREAKDOWN FLUID TYPE <b>PIA</b>		VOLUME <b>PIA</b>		DENSITY <b>PIA</b>		PRESSURE MAX. MIN.	
<input type="checkbox"/> HESITATION SQ.		<input type="checkbox"/> RUNNING SQ.		CIRCULATION LOST		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
Washed Thru: Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO		TO		FT.		MEASURED DISPLACEMENT <input checked="" type="checkbox"/>	
PERFORATIONS		TO		TO		CUSTOMER REPRESENTATIVE	
						MR. VOLAN Youngblood	
						DS SUPERVISOR	
						MR. DAVID R. SARVER	

**CEMENTING SERVICE REPORT**

Schlumberger

Dowell

**DOWELL SCHLUMBERGER INCORPORATED**

TREATMENT NUMBER

23-12-7006

DATE

4-4-95

DS-496-A PRINTED IN U.S.A.

WELL NAME AND NO. <i>Light cap 2-1</i>		LOCATION (LEGAL) <i>Sec. 25-325-37 W</i>		RIG NAME <i>MURKIN 24</i>	
FIELD-POOL <i>Stevens</i>		FORMATION <i>chase</i>		WELL DATA	
COUNTRY/PARISH <i>Stevens</i>		STATE <i>KS.</i>		APL. NO.	
NAME <i>Mobil Oil Corp.</i>		AND		ADDRESS	
ADDRESS		ZIP CODE		SPECIAL INSTRUCTIONS	

BIT SIZE <i>3 1/2</i>	CSG/Liner Size <i>5 1/2</i>	BOTTOM	TOP
TOTAL DEPTH	WEIGHT	<i>14</i>	
ROT <input type="checkbox"/> CABLE	FOOTAGE	<i>2955</i>	
MUD TYPE	GRADE	<i>US 50</i>	
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD	<i>3RD</i>	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	<i>7.910</i>	TOTAL
MUD VISC. <i>N</i>	Disp. Capacity	<i>71</i>	

NOTE: Include Footage From Ground Level To Head In Disp. Capacity		
Float	TYPE <i>WATER FILL FLAP.</i>	DEPTH <i>9.10</i>
SHOE	TYPE <i>CMT 1050</i>	DEPTH <i>7955</i>
Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB
<input type="checkbox"/> Double	SIZE <i>2 1/2</i>	TOOL TYPE
<input checked="" type="checkbox"/> Single	WEIGHT	DEPTH
<input type="checkbox"/> Swage	GRADE	TAIL PIPE: SIZE DEPTH
<input type="checkbox"/> Knockout	THREAD	TUBING VOLUME Bbls
TOP <input type="checkbox"/> OR <input type="checkbox"/> BOT	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL Bbls
DEPTH		TOTAL Bbls
ROTATE RPM	RECIPROCATATE FT	No. of Centralizers
ANNUAL VOLUME		Bbls

IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	PSI <i>1715</i>	CASING WEIGHT + SURFACE AREA (3.14 x R <sup>2</sup> )
LIFT PRESSURE	PSI	BUMP PLUG TO <i>1280</i> PSI

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE/ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0001 to 2400											
02:51		2800				H2O	8.3				
02:52		1900	25		5	H2O	8.3				
02:57		2100		26	5	H2O	8.3				
02:57		2700	103		5.8	CMT	11.5				
03:14		190		99		CMT	11.5				
03:44		190	37			CMT	4.8				
03:24		220		40		CMT	14.8				
03:24											
03:24			71		6	H2O	8.3				
03:37		0		27	1 1/2	H2O	8.3				
03:42		0		31	1 1/2	H2O	8.3				
04:07		840		65	1.6	H2O	8.3				
04:14				88	1.4	H2O	8.3				

**ORIGINAL**

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	2.10	2.75	C + 7% 0-79 + 0.2% 0-46 + 4% 0-29				99	11.5
2.								
3.	150	1.37	C + 2% B-28 + 2% 0-1 + 0.6% 0-60 + 0.2% 0-46				40	14.8
4.								
5.								
6.								

BREAKDOWN FLUID TYPE		VOLUME		DENSITY		PRESSURE	
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST		<input type="checkbox"/> YES <input type="checkbox"/> NO		Cement Circulated To Surf. <input type="checkbox"/> YES <input type="checkbox"/> NO	
BREAKDOWN		PSI	FINAL	PSI	DISPLACEMENT VOL.	Bbls	
Washed. Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO		TO	TO	FT.	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE	
PERFORATIONS				CUSTOMER REPRESENTATIVE		DS SUPERVISOR	
				<i>Volcan Youngblood</i>		<i>REL Pearson</i>	