

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- 189-219510000

County Stevens
- SW - SW - SE Sec. 11 Twp. 33S Rge. 36 X W E

Operator: License # 5208

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

Name: Mobil Oil Corporation

2500 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 #2 Unit Well # 4

City/State/Zip Liberal, KS 67905-2173

Field Name Hugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 3025 KB 3035

Phone (316) 626-1142

Total Depth 2935 PBDT 2895

Contractor: Name: Murfin Drilling Co., Inc.

Amount of Surface Pipe Set and Cemented at 563 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 S10W Temp. Abd.
X Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

feet depth to NA w/ NA sx cmt.

If Workover:

Drilling Fluid Management Plan ALT 1 92 12-10-96
(Data must be collected from the Reserve Pit)

Operator: _____

Chloride content 8,200 ppm Fluid volume 121 bbls

Well Name: _____

Dewatering method used Waste Minimization Mud System

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite:

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

Operator Name Mobil Oil Corporation

Lease Name Foster #1 SWDW License No. 5208

7-21-95 7-24-95 8-22-95
Spud Date Date Reached TD Completion Date

SW Quarter Sec. 5 Twp. 34 S Rng. 36 E/W

County Stevens Docket No. D-19,820

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 11-14-95

Subscribed and sworn to before me this 14th day of November, 19 95.

Notary Public Dana S. Bailey

Date Commission Expires August 30, 1999
5-214.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)
RECEIVED
KANSAS CORPORATION COMMISSION



Form ACO-1 (7-91)

NOV 15 1995

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Lightcap #2 Unit Well # 4
 Sec. 11 Twp. 33S Rge. 36 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>Glorietta</td> <td>1227</td> <td>1363</td> </tr> <tr> <td>Stone Corral</td> <td>1700</td> <td>1756</td> </tr> <tr> <td>Chase</td> <td>2601</td> <td>--</td> </tr> <tr> <td>Council Grove</td> <td>--</td> <td>--</td> </tr> </tbody> </table>	Name	Top	Datum	Glorietta	1227	1363	Stone Corral	1700	1756	Chase	2601	--	Council Grove	--	--
Name	Top		Datum														
Glorietta	1227		1363														
Stone Corral	1700		1756														
Chase	2601		--														
Council Grove	--	--															
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
List All E.Logs Run:																	

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#	563	Class C Class C	175 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2924	Class C Class C	275 150	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				

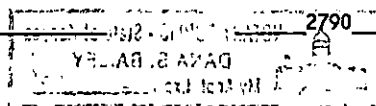
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
		Amount	Depth
1 SPF	2633-2639	Acid: 1,000 gals 7.5% HCL	
	2665-2685	Fract: 76,210 lbs 12/20 Brady Sand	
	2725-2735	530 bbls 15# Crosslink Gel	
	2774-2790		

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. 8-18-95		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
		218					

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval: 2633 - 2790



CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

DATE

STAGE

DS

DISTRICT

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

WELL NAME AND NO. LIGHTCAP 2-4	LOCATION (LEGAL) SEC 11-335-364	RIG NAME: MURKIN 24
FIELD-POOL HUGOTON	FORMATION SUFF	WELL DATA: BOTTOM TOP
COUNTY/PARISH STEVENS	STATE KS	API. NO.
NAME Mobil Oil	AND	ADDRESS
ADDRESS	ZIP CODE	
SPECIAL INSTRUCTIONS holding cmt 85% as per customer order as follows		NOTE: Include Footage From Ground Level To Head In Disp. Capacity
IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		LIFT PRESSURE PSI 239 CASING WEIGHT - SURFACE AREA (3.14 x R ²)
PRESSURE LIMIT 2000 PSI BUMP PLUG TO 380 PSI		ROTATE RPM RECIPROCATATE / FT No. of Centralizers

BIT SIZE 12 1/4	CSG/Liner Size 8 1/2	ORIGINAL
TOTAL DEPTH	WEIGHT 24	
ROT <input type="checkbox"/> CABLE	FOOTAGE 563	
MUD TYPE	GRADE 15560	
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD 8RD	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) 523	
MUD VISC.	Disp. Capacity 33,5	TOTAL
Float	TYPE Soft Rate	DEPTH 523
SHOE	TYPE	DEPTH 563
Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB
<input type="checkbox"/> Double	SIZE	TOOL TYPE
<input checked="" type="checkbox"/> Single	WEIGHT	DEPTH
<input type="checkbox"/> Swage	GRADE	TAIL PIPE: SIZE DEPTH
<input type="checkbox"/> Knockoff	THREAD	TUBING VOLUME Bbls
TOP <input type="checkbox"/> OR <input type="checkbox"/> W	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL Bbls
BOT <input type="checkbox"/> OR <input type="checkbox"/> W	DEPTH	TOTAL Bbls
		ANNUAL VOLUME Bbls

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								07:00	7-22	01:40	7-22
03:40		2200				H2O	8.3				
03:45		30	26		5.8	"	"				
03:48		180	60	26	5.8	CMT.	12.8				
03:59		210	70	86	5.8	CMT.	14.6				
04:04		330		116							
04:06		100	33.3	X	5.8	H2O	8.3				
04:11		200		25	5.8	"	"				
04:15		380		37.5	?	"	"				

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CONSERVATION DIVISION
WICHITA, KS

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			1	2	3	4	BBLs	DENSITY
1.	175	1.89	50% C + 680-20 + 3% S-1 + 5% R-44 (Baylor) + 2% R-29				60	17.8
2.								
3.	150	1.22	50% C + 2.5% S-1 + 4% R-29				70	14.6
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX. 380 MIN: 30
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING-SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Cement Circulated To Surf. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL 33.5 Bbls
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	TO	FT.	MEASURED DISPLACEMENT <input type="checkbox"/> WIRELINE
PERFORATIONS	TO	TO	TO	CUSTOMER REPRESENTATIVE
				Jeff Lasiter
				DS SUPERVISOR
				Ray Pearson

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 133-11-1325 DATE: 1-20-95
 STAGE: DS DISTRICT: Kc

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

WELL NAME AND NO.: Lighttrap #2-4
 LOCATION (LEGAL): Sec 11-33c-360w
 FIELD-POOL: Hwinton
 COUNTY/PARISH: Ste. Genevieve
 STATE: Kc
 API. NO.:

RIG NAME: Muefin #24
 WELL DATA:
 BIT SIZE: 5 7/8 CSGLiner Size: 5 7/8
 TOTAL DEPTH: 2925 WEIGHT: 14
 ROT CABLE: FOOTAGE: 2924
 MUD TYPE: GRADE: 155 55
 BHST: BHCT: THREAD: 800
 MUD DENSITY: LESS FOOTAGE SHOE JOINT(S): 21
 MUD VISC.: Disp. Capacity: 70.8

NAME: Mobil Oil Corp
 AND:
 ADDRESS: ORIGINAL
 ZIP CODE:

NOTE: Include Footage From Ground Level To Head In Disp. Capacity
 Float TYPE: 1/2" Sept Float valve
 DEPTH: 2924
 Shoe TYPE: rmt nose
 DEPTH: 2903

SPECIAL INSTRUCTIONS:
 IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE: 1724 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT: PSI BUMP PLUG TO: 1350 PSI
 ROTATE: RPM RECIPROCATE FT No. of Centralizers

Head & Plugs: TBG D.P. SQUEEZE JOB
 Double: SIZE TYPE
 Single: WEIGHT DEPTH
 Swage: GRADE TAIL PIPE: SIZE DEPTH
 Knockoff: THREAD TUBING VOLUME Bbls
 TOP OR OW: NEW USED CASING VOL. BELOW TOOL Bbls
 BOT OR OW: DEPTH TOTAL Bbls
 ANNUAL VOLUME Bbls

JOB SCHEDULED FOR TIME: 7:00 DATE: 1-24-95
 ARRIVE ON LOCATION TIME: 12:30 DATE: 1-24-95
 LEFT LOCATION TIME: 1:30 DATE: 1-24-95

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
1624											
1638	0		95		5.8	H2O					
1643	300		134		5.8	rmt	11.5				
1654	190		65		5.8	rmt	11.5				
1705	150		36		4	rmt	14.8				
1711	130		25		4	rmt	14.8				
1714	0										
1716	0		70.8		6	H2O					
1720	100		20		6	H2O					
1723	310		40		5.8						
1726	1660		55		5.8						
1727	800		60		2						
1729	770		68		2						
1731	840		70		2						
1731	1350		71		2						
1732											

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 FLOA...
 PHD job

REMARKS:

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	275	2.75	class C + 3% D79 + 2% D46 + 4# D29				134.6	11.5
2.								
3.	150	1.37	class C + 2% B28 + 2% rmt + .6% D160 + 2% D46				36.5	14.8
4.								
5.								
6.								

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST
 DENSITY: 70.8 Bbls
 PRESSURE: MAX. 3350 MIN. 110
 PERFORATIONS: TO TO
 CUSTOMER REPRESENTATIVE: T. Jeff Lacitoo
 SUPERVISOR: James Esquivel