

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

API NO. 15- 189-219380000

ORIGINAL

County Stevens
- SW - SW - SE Sec. 2 Twp. 33S Rge. 36 X W E

Operator: License # 5208

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

Name: Mobil Oil Corporation

2540 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 #3 Unit Well # 5

City/State/Zip Liberal, KS 67905-2173

Field Name Hugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 3009 KB 3018

Phone (316) 626-1142

Total Depth 2922 PBDT 2882

Contractor: Name: Murfin Drilling Co., Inc.

Amount of Surface Pipe Set and Cemented at 579 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 SLOW 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 I 4-18-96
(Data must be collected from the Reserve Pit) LC

Operator: _____

Chloride content 7,800 ppm Fluid volume 420 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 SWD License No. 5208

10-30-95 11-2-95 12-1-95
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 1-10-95

Subscribed and sworn to before me this 10th day of January, 19 96.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998
6-31.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)

NOTARY PUBLIC - State of Kansas
KATHLEEN R. POULTON
My Appt. Exp. 08-18-98

Operator Name Mobil Oil Corporation Lease Name Lightcap #3 Unit Well # 5

Sec. 2 Twp. 33S Rge. 36 East West
 County Stevens

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:
 NO LOGS RUN

Log Formation (Top), Depth and Datums Sample

Name Top Datum

CASING RECORD New 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#	579	Class C Class C	200 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2910	Class C Class C	280 150	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
1 SPF	2607-17	Acid: 750 gals 7.5% HCL	
	2640-50	Fract: 742 bbls 20# Crosslink gel	
	2688-98	141,200 lbs 12/20 sand	
	2740-50		

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 11-30-95 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		241			

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

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled 2607

Production Interval Other (Specify) 2750

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

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

TREATMENT NUMBER: 5-12-17616
 DATE: 11-1-95
 PAGE: DS DISTRICT: WICHITAS, KS.

WELL NAME AND NO.: Lightcap 3-5
 LOCATION (LEGAL): Sec 2-335-3600
 FIELD-POOL: Huontau
 COUNTY/PARISH: Stearns STATE: Kc.
 API. NO.:

RIG NAME: Muffin #74
 WELL DATA:
 BIT SIZE: 18 CS/G Liner Size: 14
 TOTAL DEPTH: 7 WEIGHT: 14
 ROT CABLE FOOTAGE: 225
 MUD TYPE: GRADE: WCCSS
 BHST BHCT THREAD: 80.2
 MUD DENSITY: LESS FOOTAGE SHOE JOINT(S): 2.2 TOTAL
 MUD VISC.: Disp. Capacity: 70.4

NAME: Mobil Oil Corp
 AND: ORIGINAL

ADDRESS: ZIP CODE:

SPECIAL INSTRUCTIONS:

Float	TYPE	Insert Float Valve	Stage Tool	TYPE
	DEPTH	2889		DEPTH
SHOE	TYPE	cmf Nose	Stage Tool	TYPE
	DEPTH	2912		DEPTH

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE: 1717 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²): 1350 PSI
 PRESSURE LIMIT: PSI BUMP PLUG TO: PSI
 ROTATE: RPM RECIPROCATE FT No. of Centralizers

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

JOB SCHEDULED FOR TIME: 2100 DATE: 11-1-95
 ARRIVE ON LOCATION TIME: 2100 DATE: 11-1-95
 LEFT LOCATION TIME: 0230 DATE: 11-2-95

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								
0001	2900							PRE-JOB SAFETY MEETING + PSI Test
0004		0	15		5.7	H2O		start H2O ahead
0007		310	137		5.7	cmf	11.5	start load cmf
0019		180		70	5.7	cmf	11.5	psi check
0030		200	36.5		5.7	cmf	14.8	start tail cmf
0034		290		21	5.7	cmf	14.8	psi check
0037		0						shut down wash pump lines deep top plug
0040		0	70.5		5.8	H2O		start displacement
0046		190		30	5.8	H2O		psi check
0047		330		40	5.7			psi check
0049		590		48	5.7			cmf to 590
0051		760		200	4			start lowering rate
0054		750		68	2.2			RECEIVED
0055		1750		70.5	2.2			STATE CORPORATION COMMISSION WICHITA, KANSAS 11/1/95
0056								WOODS OF check float + holding

REMARKS: WICHITA, KANSAS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			BBLs	DENSITY		
1.	280	2.75	class C + 3% D79 + 2% D46 + 1/4 #1 D29	13.1	11.5	
3.	150	1.37	class C + 2% B28 + 2% each + .6% Al ₂ O ₃ + 2% D46	36.5	14.8	

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. VOLUME: CIRCULATION LOST: YES NO
 PRESSURE: MAX. 45 MIN. 22 Bbls
 Cement Circulated To Surf. YES NO
 BREAKDOWN: PSI FINAL PSI DISPLACEMENT VOL. 70.5 Bbls
 TYPE OF WELL: OIL STORAGE BRINE WATER
 GAS INJECTION WILDCAT
 Washed Thru Perfs: YES NO TO FT. MEASURED DISPLACEMENT: WIRELINE
 PERFORATIONS: TO TO CUSTOMER REPRESENTATIVE: Russell Udey SUPERVISOR: James Esquivel

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

7755

DATE

10-30-95

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

PAGE

DS

DISTRICT

12 ULYSSES, KS.

WELL NAME AND NO. LIGHTCAP # 3-5		LOCATION (LEGAL) SEC. 2-33S-36W		RIG NAME: MURFIN DRILLING RIG # 24			
FIELD-POOL HUGSTON		FORMATION SURFACE		WELL DATA:		BOTTOM TOP	
COUNTY/PARISH Stevens		STATE KS.		API. NO.			
NAME MOBIL				BIT SIZE 11 1/4		CSG/Liner Size 8 5/8	
AND				TOTAL DEPTH 523		WEIGHT 24	
ADDRESS				<input type="checkbox"/> ROT <input type="checkbox"/> CABLE		FOOTAGE 523	
ZIP CODE				MUD TYPE		GRADE ISS5C	
SPECIAL INSTRUCTIONS				<input type="checkbox"/> BHST		THREAD 8 RD	
				<input type="checkbox"/> BHCT		LESS FOOTAGE SHOE JOINT(S) 535	
				MUD DENSITY		Disp. Capacity 34	
				MUD VISC.		TOTAL	

ORIGINAL

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

Foot	TYPE	DEPTH	Stage Tool	TYPE	DEPTH
	Top Hole	535			
Shot	TYPE	DEPTH		TYPE	DEPTH
	CMT 1050	579			

Head & Plugs TBG D.P. SQUEEZE JOB

Double Single Swage Knockoff

SIZE WEIGHT GRADE THREAD

TOOL TYPE DEPTH TAIL PIPE: SIZE DEPTH TUBING VOLUME Bbls

TOP OR NEW USED CASING VOL. BELOW TOOL Bbls

BOT OR DEPTH TOTAL ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE **240** PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²)

PRESSURE LIMIT **2000** PSI BUMP PLUG TO **700** PSI

ROTATE RPM RECIPROCATATE FT No. of Centralizers

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME: 19:30	DATE: 10-30	TIME: 19:30	DATE: 10-30	TIME:	DATE:	
0001 to 2400											
20:44		1900					H2O	8.3			PRE-JOB SAFETY MEETING
20:53		1200	26	-	5.8		H2O	8.3			Press. Test Lines
20:56		190	70	26	5.8		CMT.	12.8			START H2O
21:07		170	33	96			CMT.	14.6			START LEAD CMT.
21:19				143							START Tail CMT.
21:20		80	34	X			H2O	9.3			SHUT DOWN AND PLUG
21:28		220		18			"	"			START DISC
21:27		240		20			"	"			PSICHECK
21:29		260		24			"	"			START DISC
21:31		310		34			"	"			LOW P RATE
21:33		300		-			"	"			BUMP RECEIVED
											STATE CORPORATION COMMISSION
											JAN 1 1996
											CONSERVATION DIVISION WICHITA, KANSAS

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	2000	1.89	50/50 Poz C. + 6% D20 + 3% S-1 + 5% D44 (Rwog) + 1/4" SK D29				67	12.8
2.								
3.	150	1.22	50/50 Poz C. + 2.5% S-1 + 1/4" SK. D 29				73	14.6
4.								
5.								
6.								

BREAKDOWN FLUID TYPE		VOLUME		DENSITY		PRESSURE	
<input type="checkbox"/> HESITATION SQ.		<input type="checkbox"/> RUNNING SQ.		<input type="checkbox"/> YES <input type="checkbox"/> NO		MAX. 710 MIN. 80	
BREAKDOWN		DISPLACEMENT VOL.		Bbls		Cement-Circulated-To-Surf <input type="checkbox"/> YES <input type="checkbox"/> NO 14 Bbls	
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO		MEASURED DISPLACEMENT		<input type="checkbox"/> WIRELINE		TYPE OF WELL <input type="checkbox"/> OIL <input type="checkbox"/> STORAGE <input type="checkbox"/> BRINE WATER <input type="checkbox"/> WILDCAT	
PERFORATIONS		CUSTOMER REPRESENTATIVE		DS SUPERVISOR			
TO TO		Russell Worley		Ret Reason			