

ORIGINAL

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

Operator: License # 5208
Name: Mobil Oil Corporation
Address P.O. Box 2173
2319 North Kansas Avenue
City/State/Zip Liberal, KS 67905-2173
Purchaser: Spot Market
Operator Contact Person: Sharon Cook
Phone (316) 626-1142
Contractor: Name: Murfin Drilling Co., Inc.
License: 30606
Wellsite Geologist: L. J. Reimer

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
12-5-95 12-8-95 1-12-96
Spud Date Date Reached TD Completion Date

API NO. 15- 189-220070000
County Stevens
- SW - NE - NE Sec. 27 Twp. 32S Rge. 38 X W
1250 Feet from S/W (circle one) Line of Section
1250 Feet from E/W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Roach #1 Unit Well # 4
Field Name Hugoton
Producing Formation Chase
Elevation: Ground 3175 KB 3185
Total Depth 2860 PBTB 2823
Amount of Surface Pipe Set and Cemented at 668 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set NA Feet
If Alternate II completion, cement circulated from NA
feet depth to NA w/ NA sx cmt.
Drilling Fluid Management Plan alt I
(Data must be collected from the Reservoir Pit)
Chloride content 3,600 ppm Fluid volume 880 bbls
Dewatering method used Waste Minimization Mud System
Location of fluid disposal if hauled offsite _____
Operator Name Mobil Oil Corporation
Lease Name Hill #3 SWD License No. 5208
SW Quarter Sec. 3 Twp. 33 S Rng. 37 E/W
County Stevens Docket No. CD-117710

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5-7-96
LJ

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 2-1-96
Subscribed and sworn to before me this 1st day of February,
19 96.
Notary Public Dana S. Bailey
Date Commission Expires August 30, 1999
6-57.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
DANA S. BAILEY
My Appt. Exp. 8-30-99

Operator Name Mobil Oil Corporation Lease Name Roach #1 Unit Well # 4

Sec. 27 Twp. 32S Rge. 38 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 <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#	668	Class C Class C	210 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2852	Class C Class C	125 75	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	2586-2596
	2641-2651	Fract: 584 bbls 20# Crosslink gel	
	2696-2711	79,386 lbs 12/20 Brady Sand	
	2752-2762		

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. 1-8-96	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
		394			

Disposition of Gas: METHOD OF COMPLETION Production Interval
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 2586
 (If vented, submit ACO-18.) Other (Specify) _____ 2762

CEMENTING SERVICE REPORT

Schlumberger
Dowell

DOWELL SCHLUMBERGER INCORPORATED

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

WELL NUMBER: _____ DATE: _____
AGE: _____ DS: _____ DISTRICT: _____

WELL NAME AND NO. <i>1-20-01</i>		LOCATION (LEGAL) <i>136.27.1-1</i>		RIG NAME: <i>1-20-01</i>	
FIELD-POOL <i>1-20-01</i>		FORMATION <i>SUFF</i>		WELL DATA:	
COUNTY/PARISH <i>5-22-29</i>		STATE <i>KY</i>		API. NO.	
NAME <i>MOBILE</i>		MUD TYPE		GRADE	
AND		MUD DENSITY		LESS FOOTAGE SHOE JOINT(S)	
ADDRESS		MUD VISC.		Disp. Capacity	
SPECIAL INSTRUCTIONS		DISP. CAPACITY		TOTAL	

ORIGINAL
ZIP CODE

IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO		LIFT PRESSURE <i>270</i> PSI		CASING WEIGHT + SURFACE AREA (3.14 x R ²)	
PRESSURE LIMIT <i>2000</i> PSI		BUMP PLUG TO <i>102</i> PSI		ROTATE RPM RECIPROCATATE FT No. of Centralizers	
HEAD & PLUGS		TOOL		SQUEEZE JOB	
TYPE		SIZE		TYPE	
DEPTH		WEIGHT		DEPTH	
GRADE		TAIL PIPE: SIZE		DEPTH	
THREAD		TUBING VOLUME		Bbls	
NEW <input type="checkbox"/> USED <input type="checkbox"/>		CASING VOL. BELOW TOOL		Bbls	
DEPTH		TOTAL		Bbls	
ANNUAL VOLUME		Bbls		Bbls	

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR TIME DATE			ARRIVE ON LOCATION TIME DATE			LEFT LOCATION TIME DATE	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE	
0001 to 2400												
22:57		1800	X			H ₂ O	9.3					
23:00		180	7	82	5.1	"	"					
23:05		220	30	27	5.9	CAT	1.18					
23:19		220	33	107	5.9	CAT	14.6					
23:25				140								
23:26				40		H ₂ O	9.3					
23:32				30		"	"					
23:37		600		40		"	"					
23:38		300		-		-	-					

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REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BLS	DENSITY	BLS	DENSITY		
1.		1.87	<i>20 2 + 6 20-20 + 3 85-1 + 5 80-44(0.40) + 1 9 5K 27</i>				80	1.25
2.								
3.		1.23	<i>2 2 + 2 5 85-1 + 4 2 K D. 29</i>				33	14.6
4.								
5.								
6.								

BREAKDOWN FLUID TYPE		VOLUME		DENSITY		PRESSURE		MAX.		MIN:	
<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 <i>10</i> Bbls.	
BREAKDOWN		PSI FINAL		PSI		DISPLACEMENT VOL.		Bbls		TYPE OF WELL	
Washed Thru Perfs		<input type="checkbox"/> YES <input type="checkbox"/> NO		TO FT.		MEASURED DISPLACEMENT		<input type="checkbox"/> WIRELINE		<input type="checkbox"/> OIL <input type="checkbox"/> STORAGE <input type="checkbox"/> BRINE WATER <input type="checkbox"/> GAS <input type="checkbox"/> INJECTION <input type="checkbox"/> WILDCAT	
PERFORATIONS		TO TO		TO TO		CUSTOMER REPRESENTATIVE		DS SUPERVISOR			
						<i>Dennis Russell</i>		<i>Clay Pearson</i>			

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 15-12-7937 DATE: 12-7-95
 DISTRICT: 2145505, Kc

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

WELL NAME AND NO.: K'bach #1-4
 LOCATION (LEGAL): Sec 27-32s-38e
 FIELD-POOL: Hutton
 COUNTY/PARISH: STOWENS STATE: Kc API. NO.:
 NAME: Mobil Oil Corp
 AND:
 ADDRESS:
 SPECIAL INSTRUCTIONS: ORIGINAL

WELL DATA:	BIT SIZE: 7 7/8	CSG/Liner Size:		BOTTOM:		TOP:	
TOTAL DEPTH:	2874	WEIGHT:	16				
<input type="checkbox"/> CABLE		FOOTAGE:					
MUD TYPE:		GRADE:	ucc 55				
<input type="checkbox"/> BHST		THREAD:	8ed				
<input type="checkbox"/> BHCT							
MUD DENSITY:		LESS FOOTAGE SHOE JOINT(S):	7.3				TOTAL
MUD VISC.:		Disp. Capacity:	69				

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

Float	TYPE:	Seat Float Valve	Stage Tool	TYPE:	
	DEPTH:	2874.4		DEPTH:	
SHOE	TYPE:	mt nose	Stage Tool	TYPE:	
	DEPTH:	2852.4		DEPTH:	

Head & Plugs: TBG D.P. SQUEEZE JOB

Double SIZE: TOOL TYPE

Single WEIGHT: DEPTH

Swage GRADE: TAIL PIPE: SIZE DEPTH

Knockoff THREAD: TUBING VOLUME Bbls

TOP BR W NEW USED CASING VOL. BELOW TOOL Bbls

BOT BR W DEPTH: TOTAL Bbls

ROTATE RPM: RECIPROCATE FT No. of Centralizers: ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LIFT PRESSURE: 11682 PSI	CASING WEIGHT ÷ SURFACE AREA (3.14 x R ²):
PRESSURE LIMIT: PSI	BUMP PLUG TO: 1010 PSI	ARRIVE ON LOCATION TIME: 1600 DATE: 12-7-95	LEFT LOCATION TIME: 2330 DATE: 12-7-95

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			SERVICE LOG DETAIL			
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0001 to 2400											
2101	3000									PRE-JOB SAFETY MEETING + PSI Test	
2103	0		25		5.8	H2O				start H2O ahead	
2108	410		61		5.8	mt	11.5			start lead mt	
2113	770		30		5.8	mt	11.5			PSI check	
2119	120		19		4	mt	14.3			start tail mt	
2121	110		11		4	mt	14.4			psi check	
2124	0									shut down & wash pump line	
2129	0		109		6	H2O				start displacement	
2133	110		30		6	H2O				psi check	
2136	150		40		6					" "	
2137	330		50		6					" "	
2139	330		60		2.7					lower rate	
2141	440		65		2.7					psi check	
2142	540		68		2.7					psi check	
2147	1070		69		2.7					bump top plug	
2143										bleed off of check float + holding	

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REMARKS:

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	12.5	2.75	class C + 3% D79 + 2% D46 + 1/2% D29				61.2	11.5
2.								
3.	1.37	1.37	class C + 2% B28 + 2% carb + .6% D60 + 1/2% D29 + .2% D46				18.2	14.8
4.								
5.								
6.								

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST

BREAKDOWN: PSI FINAL PSI DISPLACEMENT VOL. 69 Bbls

Washed Thru Perfs: YES NO TO FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS: TO TO CUSTOMER REPRESENTATIVE: DONNIS RUSSELL DS SUPERVISOR: JAMES EQUISVEL