

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: Norseman Drilling Inc.

License: 3779

Wellsite Geologist: L. J. Reimer

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGH  
 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  PBTD

Commingled  Docket No. \_\_\_\_\_

Dual Completion  Docket No. \_\_\_\_\_

Other (SWD or Inj?)  Docket No. \_\_\_\_\_

6-3-96 6-6-96 6-24-96  
Spud Date Date Reached TD Completion Date

API NO. 15- 189-220690000

County Stevens

SW - NE - NE Sec. 9 Twp. 33S Rge. 36 X W E

1250 Feet from S (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 K. Brown Unit Well # 4

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3037 KB 3046

Total Depth 2934 PBDT 2885

Amount of Surface Pipe Set and Cemented at 624 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 1 8/7 12-20-96  
(Data must be collected from the Reserve Pt)

Chloride content 8,000 ppm Fluid volume 390 bbls

Dewatering method used Waste Minimization Mud System

Location of fluid disposal if hauled offsite:

Operator Name Mobil Oil Corporation

Lease Name Hill #3 SWDW License No. 5208

SW Quarter Sec. 3 Twp. 33 S Rng. 37 E/W

County Stevens Docket No. CD-117710

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 8-13-96

Subscribed and sworn to before me this 13th day of August, 19 96.

Notary Public Dana S. Bailey

Date Commission Expires August 30, 1999  
6-159.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  
STATE CORPORATION COMMISSION

NOTARY PUBLIC - State of Kansas  
DANA S. BAILEY  
My Appl. Exp. 8/10/99

AUG 14 1996

Form ACO-1 (7-91)

CONSERVATION DIVISION  
WICHITA, KANSAS

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name K. Brown Unit Well # 4  
 Sec. 9 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 type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

List All E.Logs Run:  
 NO LOGS RUN

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#	624	Class C Class C	200 170	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2924	Class C Class C	140 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	2656-2671	Acid: 1,000 gals 7.5% HCL	
	2706-2721	Fracd: 19,650 gals 20# Crosslink gel	
2 SPF	2760-2775	68,000 lbs 12/20 Brady Sand	

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)			
6-20-96				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
		350		

Disposition of Gas: METHOD OF COMPLETION Production Interval  
 Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Conmingled 2656  
 (If vented, submit ACO-18.)  Other (Specify) 2775

CEMENTING SERVICE REPORT

Schlumberger  
Dowell

TREATMENT NUMBER **D312 8390** DATE **6-4-96**  
STAGE DS DISTRICT **1143565 K3**

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

WELL NAME AND NO. **K BROWN # 4** LOCATION (LEGAL) **SEC 9-335-36W**  
 FIELD-POOL **HUGOTON** FORMATION  
 COUNTY/PARISH **STEVENS** STATE **K3** API. NO.  
 NAME **MOBIL**  
 AND **ORIGINAL**  
 ADDRESS  
 ZIP CODE

RIG NAME: **DOBESMAN # 2**  
 WELL DATA: BOTTOM TOP  
 BIT SIZE **12 1/4** CSG/Liner Size **8 5/8**  
 TOTAL DEPTH **8240** WEIGHT  
 ROT  CABLE FOOTAGE **625**  
 MUD TYPE GRADE  
 BHST  BHCT THREAD **8 R2**  
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) **38.5** TOTAL  
 MUD VISC. Disp. Capacity **586.25** **37.3**  
 NOTE: Include Footage From Ground Level To Head In Disp. Capacity

SPECIAL INSTRUCTIONS  
**SAFELY UNIT SURF PER CUSTOMERS INSTRUCTIONS.**  
 IS CASING/TUBING SECURED?  YES  NO  
 LIFT PRESSURE **220** PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)  
 PRESSURE LIMIT PSI BUMP PLUG TO **800** PSI  
 ROTATE RPM RECIPROCATE FT No. of Centralizers

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  OR  W.  NEW  USED CASING VOL. BELOW TOOL Bbls  
 BOT  OR  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	TIME: 0100	DATE: 6-4-96	TIME: 0045	DATE: 6-4-96	TIME: 0500	DATE: 6-4-96	
0001 to 2400											
0301	1500										
0303		120	25	25	5 1/2	160	8.34				
0308		120	67	92	5 1/2	160	12.8				
0319		140	37	92	5	160	14.6				
0326		-		129	-						
0326		-		129	-						
0328		-	37.3	129	5	160	8.34				
0333		150		27	2						
0334		170		30	2						
0339		800		37	-						

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REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	700	1.89	50/50 P02/C + 2% D-20 + 3% SI + 5% D-44(B00W)				67	12.8
2.			+ 1/4 #13K D29					
3.								
4.	170	1.22	50/50 P02/C + 2.5% SI + 1/4 #13K D29				37	14.2
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. 800 MIN: (21.5K)  
 HESITATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO 7 Bbls.  
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 37 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 **Marvin Harvey** DS SUPERVISOR **Greg Greenick**

**CEMENTING SERVICE REPORT**

Schlumberger  
Dowell

TREATMENT NUMBER: 12-8397 DATE: 6-6-96  
PAGE: DS DISTRICT: Ulysses, Kc.

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

WELL NAME AND NO. **K. BROWN #4**  
 LOCATION (LEGAL) **Sec. 9-33s-36w**  
 FIELD POOL **Huerton**  
 COUNTY/PARISH **Stevens** STATE **Ks.** API. NO. \_\_\_\_\_  
 NAME **Mobil Oil Corp**  
 AND \_\_\_\_\_  
 ADDRESS \_\_\_\_\_

RIG NAME **NORSEMAN #2**  
 WELL DATA: BIT SIZE **2 7/8** CSG/Liner Size **5 1/2**  
 TOTAL DEPTH **2929** WEIGHT **14**  
 ROT  CABLE FOOTAGE **2929**  
 MUD TYPE GRADE **USS55**  
 BHST  BHCT THREAD **8rd**  
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) **38.5** TOTAL \_\_\_\_\_  
 MUD VISC. Disp. Capacity **70.5**

**ORIGINAL**

SPECIAL INSTRUCTIONS \_\_\_\_\_  
 IS CASING/TUBING SECURED?  YES  NO  
 LIFT PRESSURE **1727** PSI CASING WEIGHT SURFACE AREA (3.14 x R<sup>2</sup>)  
 PRESSURE LIMIT **1650** PSI BUMP PLUG TO **1650** PSI  
 ROTATE RPM \_\_\_\_\_ RECIPROCATE FT \_\_\_\_\_ No. of Centralizers \_\_\_\_\_

NOTE: Include Footage From Ground Level To Head In Disp. Capacity  
 Head & Plugs  TBG  D.P. SQUEEZE JOB  
 Double  SIZE  WEIGHT  TYPE  
 Single  GRADE TAIL PIPE: SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 Swage  THREAD TUBING VOLUME \_\_\_\_\_ Bbls  
 Knockoff  NEW  USED CASING VOL. BELOW TOOL \_\_\_\_\_ Bbls  
 BOT  CW 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											
0924	3700										
0931	0		25		5.6	H2O					
0936	410		69		5.6	cmt.	11.5				
0943	220		45		5.6	cmt.	11.5				
0948	90		18		4	cmt.	14.8				
0950	90		10		4	cmt.	14.8				
0952	0										
0955	0		70.5		5.7	H2O					
1002	300		40		5.7	H2O					
1006	640		60		5.7						
1006	720		62		2						
1009	560		69		2						
1010	1240		70.5		2	H2O					
1012	1590										
1013	1650										
1016	1000										

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REMARKS  
 PRE-JOB SAFETY MEETING + PSI TEST  
 start H2O ahead  
 start cmt. lead slurry  
 psi check  
 start cmt. tail slurry  
 psi check  
 start down wash pump lines drop top plug  
 start displacement  
 psi check  
 " "  
 low er rate  
 psi check  
 bump top plug check float not holding  
 bump top plug check float not holding  
 bump top plug check float not holding  
 bump top plug shut 14 cmt manifold bleed psi of end job

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	140	2.75	class C + 3% D79 + 2% D46 + 1/4 #1 D29				68.5	11.5
2.								
3.	75	1.37	class C + 2% B28 + 2% cmt + .6% D100 + 2% D46 + 1/4 #1 D29				18.2	14.8
4.								
5.								
6.								

BREAKDOWN FLUID TYPE:  HESITATION SQ.  RUNNING SQ.  CIRCULATION LOST  YES  NO  
 PRESSURE: MAX. \_\_\_\_\_ MIN. \_\_\_\_\_  
 Cement Circulated To Surf.  YES  NO Bbls. **70.5**  
 TYPE OF WELL:  OIL  STORAGE  BRINE WATER  GAS  INJECTION  WILDCAT  
 Washed Thru Perfs  YES  NO TO \_\_\_\_\_ FT. MEASURED DISPLACEMENT  WIRELINE  
 PERFORMANCES TO \_\_\_\_\_ TO \_\_\_\_\_ CUSTOMER REPRESENTATIVE: **MARVIN HARVEY** DS SUPERVISOR: **JAMES ESQUINEL**