

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- 189-221640000

County Stevens  
NE SW SW Sec. 8 Twp. 32 Rge. 35 X E W

Operator: License # 5208

1250 Feet from S/N (circle one) Line of Section

Name: Mobil Oil Corporation

1250 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 Keating #3 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 3002 KB 3011

Phone (316) 626-1142

Total Depth 2961 PBDT 2906

Contractor: Name: Norseman Drilling Inc.

Amount of Surface Pipe Set and Cemented at 671 Feet

License: 3779

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 AH.1, 4-10-98 U.C.  
(Data must be collected from the Reserve Pit)

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

Chloride content 9,000 ppm Fluid volume 250 bbls

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

Dewatering method used Evaporation

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

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

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

Operator Name Mobil Oil Corporation

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

6-12-97 6-15-97 7-15-97  
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 9-30-97

Subscribed and sworn to before me this 30th day of September, 19 97.

Notary Public Lynn K. Hunt

Date Commission Expires February 20, 2001  
7-68.kcc

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other (Specify)



ORIGINAL

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Keating #3 Unit Well # 4

Sec. 8 Twp. 32 Rge. 35 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 (Attach Additional Sheets.) Samples Sent to Geological Survey Cores Taken Electric Log Run (Submit Copy.) List All E.Logs Run: NO LOGS RUN Log Formation (Top), Depth and Datums Sample Name Top Datum

CASING RECORD Table with columns: 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. Includes rows for Surface Casing and Production Casing.

ADDITIONAL CEMENTING/SQUEEZE RECORD Table with columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives. Includes rows for Perforate, Protect Casing, Plug Back TD, Plug Off Zone.

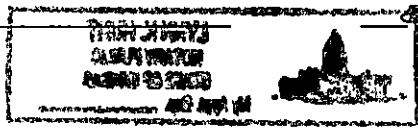
PERFORATION RECORD - Bridge Plugs Set/Type and Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth. Includes rows for 2 SPF with footages 2676-86, 2725-35, 2790-2800 and material used.

TUBING RECORD Table with columns: Size, Set At, Packer At, Liner Run (Yes/No).

Date of First, Resumed Production, SWD or Inj. 7-7-97 Producing Method: Flowing (checked), Pumping, Gas Lift, Other (Explain).

Estimated Production Per 24 Hours Table with columns: Oil Bbls., Gas Mcf (189), Water Bbls., Gas-Oil Ratio, Gravity.

Disposition of Gas: Vented (checked), Sold, Used on Lease. METHOD OF COMPLETION: Open Hole, Perf. (checked), Dually Comp., Commingled. Production Interval: 2676, 2800.



**CEMENTING SERVICE REPORT**

Schlumberger  
Dowell

TREATMENT NUMBER: 2001886  
DATE: 6-14-97  
SURGE: 1 DS: Ulysses DISTRICT: KS

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

WELL NAME AND NO.: Keating # 3-4  
LOCATION (LEGAL): Sec 8-325-35 W  
FIELD-POOL: Hugoton  
FORMATION: Chase  
COUNTY/PARISH: Stevens  
STATE: KS  
API. NO.:

RIG NAME: Nois man # 2  
WELL DATA: BIT SIZE 7 7/8 CSG/Liner Size 5 1/2  
TOTAL DEPTH 2961 WEIGHT 14  
 ROT  CABLE FOOTAGE 2951  
MUD TYPE Gel GRADE US50  
 BHST  BHCT 95° THREAD 8rd  
MUD DENSITY 9.2 LESS FOOTAGE SHOE JOINT(S) 45  
MUD VISC. 33 Disp. Capacity 70.9

NAME: Mobil Exp US Inc.  
AND:  
ADDRESS:  
ZIP CODE:

SPECIAL INSTRUCTIONS

**ORIGINAL**

NOTE: Include Footage From Ground Level To Head In Disp. Capacity  
Float TYPE: Orifice Fill DEPTH: 2906  
SHOE TYPE: Guide DEPTH: 2951

IS CASING/TUBING SECURED?  YES  NO  
LIFT PRESSURE 1739 PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R<sup>2</sup>)  
PRESSURE LIMIT 2000 PSI BUMP PLUG TO 1450 PSI  
ROTATE 0 RPM RECIPROCATE 0 FT No. of Centralizers 12

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  R  W  NEW  USED CASING VOL. BELOW TOOL Bbls  
BOT  R  W DEPTH TOTAL Bbls  
ANNUAL VOLUME Bbls

JOB SCHEDULED FOR TIME: 1930 DATE: 6-14 ARRIVE ON LOCATION TIME: 1930 DATE: 6-14 LEFT LOCATION TIME: 6-15 DATE: 0100

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								
1930								PRE-JOB SAFETY MEETING
2342		2650						Test Lines
2343		250	25	0	5.7	H2O	8.32	Start H2O
2348		320	86	25	5.7	Cmt	11.5	Start Lead Cement
0005		140	24	111	5.7	Cmt	14.8	Start Tail Cement
0008		50		135				Shutdown wash lines
0011		80	64		6.0	H2O	8.32	Dred Top Plug Start Displace
0021		600	6.9	199	2.0	H2O	8.32	Slow Rate
0024		1450		206				Bump Top Plug
0025		0						Bleed off
								Float Holding
								Job Complete

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	175	2.75	Class C + 3% D79, 0.2% D46, 1/4 lb D29/sk				85.7	11.5
2.	100	1.37	Class C + 2% B28, 2% S1, 0.6% D60, 0.2% D46, 1/4 lb D29/sk				24.4	14.8
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE:  HESITATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO  
PRESSURE MAX. 1450 MIN: 50  
Cement Circulated To Surf.  YES  NO Bbls  
BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 70.9 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 Worley DS SUPERVISOR: David J. Brawley

**CEMENTING SERVICE REPORT**

Schlumberger  
Dowell

TREATMENT NUMBER 00 1622	DATE 6-11-97
STATE KS	DISTRICT 2054

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

WELL NAME AND NO. Keating #3-4	LOCATION (LEGAL) SEC 8-22S-35W
FIELD-POOL Hugoton	FORMATION SURFACE
COUNTY/PARISH Stevens	STATE KS
API. NO.	

RIG NAME: NOBSMAN #2	
WELL DATA:	BOTTOM TOP
BIT SIZE 12 1/4	CSG/Liner Size 8 5/8
TOTAL DEPTH	WEIGHT 246
<input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE 657
MUD TYPE	GRADE
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD 9 22
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) 41.68
MUD VISC.	Disp. Capacity 39.1

NAME Mobil Oil

AND

ADDRESS

ZIP CODE

**ORIGINAL**

SPECIAL INSTRUCTIONS  
Safety Cement Surface casing as directed by customer!

NOTE: Include Footage From Ground Level To Head In Disp. Capacity					
Float	TYPE	DEPTH	Stage Tool	TYPE	DEPTH
		628			
SHOE	TYPE	DEPTH		TYPE	DEPTH
	Mose Guide	671			

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE 270 PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT 2000 PSI BUMP PLUG TO 605 PSI

ROTATE RPM RECIPROCATE FT No. of Centralizers

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	<input type="checkbox"/> WEIGHT	DEPTH
<input type="checkbox"/> Swage	<input type="checkbox"/> GRADE 6-16	TAIL PIPE: SIZE 20815 DEPTH
<input type="checkbox"/> Knockoff	<input type="checkbox"/> 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 1/2 Job. Bbls
BOT <input type="checkbox"/> OR <input type="checkbox"/> W	DEPTH	TOTAL Bbls
		ANNUAL VOLUME Bbls

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR TIME: ASAP DATE: 6-11-97			ARRIVE ON LOCATION TIME: 1830 DATE: 6-11-97	LEFT LOCATION TIME: 2200 DATE: 6-11-97
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL	
0001 to 2400								PRE-JOB SAFETY MEETING	
2113	-	2100	-	-	-	-	-	PSI Test	
2117	-	140	25		5.7	H2O	8.3	START H2O ahead	
2121	-	150	67.3	25	5.7	CM	12.8	START Lead cmf	
2133	-	185	32.5	92.3	5.7	CM	14.6	START Tail cmf	
2140	-	-	-	-	-	-	-	SHUT DOWN	
2141	-	-	-	1248	-	-	-	DROP PLUG	
2141	-	205	30	1548	2.5	H2O	8.3	START D:SP	
2149	-	300	10	1648	2	H2O	8.3	Low ce rate	
2153	-	600	-	-	-	-	-	Bump plug & SHUT DOWN	
2154	-	-	-	-	-	-	-	End Job	

REMARKS

5Ks to surface #3661's

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	200	1.89	200SKs 50/50 Poz/c + 66 D20 + 38 S1 + 58 O44 + 1/4 WSK D29				67.3	12.8
2.	150	1.22	150SKs 50/50 Poz/c + 25 S1 + 1/4 WSK D29				32.5	14.6
3.								
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 checked="" type="checkbox"/> NO	Cement Circulated To Surf. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	38.6 Bbls
BREAKDOWN	PSI FINAL	PSI	DISPLACEMENT VOL. 40	Bbls	TYPE OF WELL <input checked="" type="checkbox"/> GAS
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT 40	<input type="checkbox"/> WIRELINE	<input type="checkbox"/> STORAGE <input type="checkbox"/> INJECTION <input type="checkbox"/> BRINE WATER <input type="checkbox"/> WILDCAT
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS	SUPERVISOR
			Russell Worley		Brian Fin