FORM MUST BE TYPED

SIDE ONE

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- 189-21953-0000

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
_X_ New Well ____ Re-Entry ____ Workover

____ Oil ____ SWD ____ SIOW ____ Temp. Abd.
_X_ 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 ____ PBTD
____ Commingled Docket No.
____ Dual Completion Docket No.
____ Other (SWD or Inj?) Docket No.

8-3-95 Spud Date | 8-6-95 Date Reached TD | 8-28-95 Completion Date

County Stevens

E

__ - SW - NE - NE Sec. 7 Twp. 32S Rge. 35 X W

1250 Feet from S (N) (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 Keating #2 Unit Well # 3

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3022 KB 3031

Total Depth 2981 PBTD 2925

Amount of Surface Pipe Set and Cemented at 591 Feet

Multiple Stage Cementing Collar Used? ____ Yes _X_ 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 JH 7-3-96
(Data must be collected from the Reserve Pit)

Chloride content 15,500 ppm Fluid volume 121 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-117,710

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 11-20-95

Subscribed and sworn to before me this 20th day of November, 19 95.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998

5-223.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
11-22-95
NOV 22 1995

Form ACO-1 (7-91)

NOTARY PUBLIC - State of Kansas
KATHLEEN R. POULTON
My Appt. Exp. 8-18-98

CONSERVATION DIVISION
WICHITA, KS

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Keating #2 Unit Well # 3

Sec. 7 Twp. 32S 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.)	☐ Yes	☒ No
Samples Sent to Geological Survey	☐ Yes	☒ No
Cores Taken	☐ Yes	☒ No
Electric Log Run (Submit Copy.)	☒ Yes	☐ No

List All E.Logs Run:

Dual Induction Focused Log Gamma Ray Caliper
Z-Densilog Compensated Neutron Spectralog
Caliper Log Gamma Ray

☒ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
Glorietta	1282	1406
Stone Corral	1744	1802
Chase	2618	2961
Council Grove	2961	--

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#	591	Class C Class C	150 175	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2971	Class C Class C	225 175	3% D79 2% B28

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate					
___ Protect Casing					
___ Plug Back TD					
___ 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	2653-2663	Acid: 1,000 gals 7.5% HCL	
	2686-2706	Fracd: 23,436 gals 15# Crosslink Gel	
	2735-2750	75,595 lbs 12/20 Brady Sand	
	2800-2820		

TUBING RECORD Size Set At Packer At | Liner Run ☐ Yes ☒ No

Date of First, Resumed Production, SWD or Inj. 8-25-95 | Producing Method ☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		301			

Disposition of Gas: METHOD OF COMPLETION Production Interval

☐ Vented ☒ Sold ☐ Used on Lease (If vented, submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled 2653-2820

☐ Other (Specify)

KATHLEEN R. HOULTON

ENTING SERVICE REPORT

Schlumberger
Dowell
DOWELL SCHLUMBERGER INCORPORATED

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

TREATMENT NUMBER	DATE
7365	8-6-95

STAGE	DS	DISTRICT
1	03	12

WELL NAME AND NO.	LOCATION (LEGAL)
Keating 2-3	Sec 17 - 32S - 35W

FIELD-POOL	FORMATION
Hugoton	Chase

COUNTY/PARISH	STATE	API. NO.
Stevens	KS	

NAME Mobil Oil Corp.

AND

ADDRESS

ZIP CODE

ORIGINAL

RIG NAME: Norsman 2

WELL DATA:		BOTTOM			TOP
BIT SIZE 7 7/8	CSG/Liner Size	5 1/2			
TOTAL DEPTH	WEIGHT	14			
☒ ROT ☐ CABLE	FOOTAGE	2971			
MUD TYPE	GRADE	USS50			
☐ BHST ☐ BHCT	THREAD	8RD			
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	2925			TOTAL
MUD VISC.	Disp. Capacity	71.7			

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

Float	TYPE	Auto Fill Flat.	Stage Tool	TYPE	
	DEPTH	2925		DEPTH	
SHOE	TYPE	CMT. nose		TYPE	
	DEPTH	2971		DEPTH	

SPECIAL INSTRUCTIONS

Barlay cmt. 5½ L/S as per customers orders as follows.

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

IS CASING/TUBING SECURED? ☒ YES ☐ NO

LIFT PRESSURE	1760	PSI	CASING WEIGHT ÷ SURFACE AREA (3.14 x R²)		
PRESSURE LIMIT	2000	PSI	BUMP PLUG TO		PSI
ROTATE		RPM	RECIPROCATE	FT	No. of Centralizers

JOB SCHEDULED FOR TIME: 06:30 DATE: 8-6 | ARRIVE ON LOCATION TIME: 06:30 DATE: 8-6 | LEFT LOCATION TIME: DATE:

TIME	PRESSURE		VOLUME PUMPED BBL					
0001 to 2400	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
								PRE-JOB SAFETY MEETING
11:10		2300				H20	8.3	PSI TEST
11:13		220	25		5.9	"	"	start H20
11:16		240	109	25	5.9	CMT.	11.5	start LD CMT
11:36		160	43	134	5.6	CMT.	14.8	start TL cmt
11:44		220		177	5.8	"	"	shut down - wash to pit
11:49		100		X	6	H20	8.3	drop plug start DISP
11:56		370	72	40	5.8	"	"	PSI check
11:59		760		55	5.5	"	"	cmt to surface
12:00		840		61	5.5	"	"	Lower Rate
12:00		770		62	2	"	"	PSI check
12:04		900		70	1.7	"	"	PSI check
12:06		1140		72	1.7	"	"	Bump Plug
12:06						"	"	Bleed Pres check Float
12:08		1440			.2	"	"	Rebump Plug
12:10		—			—	"	"	Bleed Pres check Float (Held)

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
1.	225	2.75	C + 3% D-79 + 0.2% D-46 + ¼ #/sk D-29	109	11.5
2.					
3.	175	1.37	C + 2% B28 + 2% S-1 + 0.6% D-60 + 0.2% D-46	43	14.8
4.					
5.					
6.					

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE 1440 MAX. 100 MIN:
☐ HESITATION SQ. ☐ RUNNING SQ.	CIRCULATION LOST	☐ YES ☒ NO	Cement Circulated To Surf. ☒ YES ☐ NO 16 Bbls.
BREAKDOWN PSI FINAL PSI	DISPLACEMENT VOL. 72	Bbls	TYPE OF WELL ☐ OIL ☒ GAS ☐ STORAGE ☐ INJECTION ☐ BRINE WATER ☐ WILDCAT 34 SKS
Washed Thru Perfs ☐ YES ☒ NO TO FT.	MEASURED DISPLACEMENT ☐	☐ WIRELINE	

PERFORATIONS	CUSTOMER REPRESENTATIVE	DS SUPERVISOR
TO TO	Jeff Lasiter	Ray Pearson
TO TO		

CEMENTING SERVICE REPORT

Schlumberger
Dowell
DOWELL SCHLUMBERGER INCORPORATED

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

TREATMENT NUMBER 0312 7359 | DATE 8-3
STAGE | DS | DISTRICT ULYSSES

WELL NAME AND NO.	LOCATION (LEGAL)
KEATING # 2-3	SEC 7-32S-35W
FIELD-POOL	FORMATION
COUNTY/PARISH	STATE / API. NO.
STEVENS	KS.

NAME MOBIL

AND

ADDRESS

ZIP CODE

ORIGINAL

SPECIAL INSTRUCTIONS
CMT SURF PER CO. REP. INSTRUCTIONS

IS CASING/TUBING SECURED? ☒ YES ☐ NO
LIFT PRESSURE PSI | CASING WEIGHT ÷ SURFACE AREA (3.14 × R²)
PRESSURE LIMIT PSI | BUMP PLUG TO PSI
ROTATE RPM | RECIPROCATE FT | No. of Centralizers

RIG NAME: DOLSMAN #2

WELL DATA:		BOTTOM			TOP
BIT SIZE 12¼	CSG/Liner Size	8 5/8			
TOTAL DEPTH	WEIGHT	24#			
☑ ROT ☐ CABLE	FOOTAGE	591			
MUD TYPE	GRADE				
☐ BHST ☐ BHCT	THREAD	8RD			
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	42			TOTAL
MUD VISC.	Disp. Capacity	549			34.97

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

Float	TYPE	BAFFLE	Stage Tool	TYPE	
	DEPTH	549		DEPTH	
SHOE	TYPE	CMT NOSE		TYPE	
	DEPTH	591		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 ☐R ☐W	☐ NEW ☐ USED	CASING VOL. BELOW TOOL Bbls
BOT ☐R ☐W	DEPTH	TOTAL Bbls
		ANNUAL VOLUME Bbls

JOB SCHEDULED FOR TIME: 0600 DATE: 8-3
ARRIVE ON LOCATION TIME: 0630 DATE: 8-3
LEFT LOCATION TIME: 0900 DATE: 8-3-95

TIME 0001 to 2400	PRESSURE TBG OR D.P.	PRESSURE CASING	VOLUME PUMPED BBL INCREMENT	VOLUME PUMPED BBL CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
0739	1200							PRE-JOB SAFETY MEETING
0740	1200	12						PRESSURE TEST LINES
0740		120	25		5	H20		START WATER
0745		140	50	25	5	12.8		START LEAD
0755		100	38	75	4	14.6		START TAIL
0806				113	—			SHUT DN
0808				113	—			DROP PLUG
0808		80	34.97	113	6	H20		START DISP.
0812		370		24	6			CMT TO SURFACE
0813		250		25	2			SLOW RATE
0817		200		35	2			BUMP TO PLUG
0817		800			—			BLEED PSI DOWN 300 # CLOSE IN

RECEIVED
KANSAS CORPORATION COMMISSION
NOV 22 1995
CONSERVATION DIVISION
WICHITA, KS

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
1.	150	1.89	50/50 + 6% D20 + 3% S1 + 5% D44 (BWOW) +	50	12.8
2.					
3.	175	1.22	50/50 + 2 1/2% D20 + 1/4# SK D-29	38	14.6
4.					
5.					
6.					

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE MAX. MIN: 33 SKS
☐ HESITATION SQ. ☐ RUNNING SQ.	CIRCULATION LOST	☐ YES ☒ NO	Cement Circulated To Surf. ☐ YES ☐ NO 11 Bbls.
BREAKDOWN PSI FINAL PSI	DISPLACEMENT VOL.	35 Bbls	TYPE OF WELL ☐ OIL ☑ GAS ☐ STORAGE ☐ INJECTION ☐ BRINE WATER ☐ WILDCAT
Washed Thru Perfs ☐ YES ☐ NO TO FT.	MEASURED DISPLACEMENT ☑	☐ WIRELINE	
PERFORATIONS TO TO TO TO	CUSTOMER REPRESENTATIVE		DS SUPERVISOR
	JEFF LOSTER		GREG GRENOS