

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

Operator: License # 5208Name: Mobil Oil CorporationAddress P.O. Box 21732319 North Kansas AvenueCity/State/Zip Liberal, KS 67905-2173Purchaser: Spot MarketOperator Contact Person: Sharon CookPhone (316) 626-1142Contractor: Name: Norseman Drilling Inc.License: 3779Wellsite Geologist: L. J. Reimer

Designate Type of Completion

☒ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ SWD ☐ SIOW ☐ 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 ☐ PBDT
☐ Commingled ☐ Docket No. _____
☐ Dual Completion ☐ Docket No. _____
☐ Other (SWD or Inj?) ☐ Docket No. _____

5-18-96 5-21-96 6-24-96
Spud Date Date Reached TD Completion Date

API NO. 15- 189-220680000

ORIGINAL

County StevensSE NW NW Sec. 27 Twp. 34S Rge. 37 E X W1250 Feet from S(N) (circle one) Line of Section1250 Feet from E(W) (circle one) Line of SectionFootages Calculated from Nearest Outside Section Corner:
NE, SE, (NW) or SW (circle one)Lease Name Knier #1 Unit Well # 3Field Name HugotonProducing Formation ChaseElevation: Ground 3130 KB 3130Total Depth 3019 PBDT 2964Amount of Surface Pipe Set and Cemented at 712 FeetMultiple Stage Cementing Collar Used? ☐ Yes ☒ NoIf yes, show depth set NA FeetIf Alternate II completion, cement circulated from NAfeet depth to NA w/ NA sx cmt.Drilling Fluid Management Plan AH-1 1-2-98 - VC.
(Data must be collected from the Reserve Pit)Chloride content 9,700 ppm Fluid volume 350 bblsDewatering method used Waste Minimization Mud System

Location of fluid disposal if hauled offsite:

Operator Name Mobil Oil CorporationLease Name C. W. Creamer #1 SWDW License No. 5208NE Quarter Sec. 23 Twp. 34 S Rng. 37 E(W)County Stevens Docket No. D-19,411

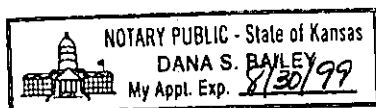
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side 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. CookTitle Regulatory Assistant Date 8-6-96Subscribed and sworn to before me this 6th day of August, 19 96.Notary Public Dana S. BaileyDate Commission Expires August 30, 1999
6-156.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)



SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Knier #1 Unit Well # 3
 Sec. 27 Twp. 34S Rge. 37 ☐ 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#	712	Class C	250	50:50 C/poz
					Class C	150	50:50 C/poz
Production Casing	7.875	5.500	14#	3009	Class C	140	3% D79
					Class C	75	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	2734-2749	Acid: 1,000 gals 7.5% HCL	
	2785-2800	Fracd: 28,000 gals 20# Crosslink gel	
	2842-2857	128,140 lbs 12/20 Brady Sand	

TUBING RECORD	Size	Set At	Packer At	Liner Run ☐ Yes ☒ No
Date of First, Resumed Production, SWD or Inj. 6-14-96	Producing Method ☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas 135 Mcf	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

☐ Vented ☒ Sold ☐ Used on Lease ☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled 2734
 (If vented, submit ACO-18.) ☐ Other (Specify) 2857

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

8370

DATE 5-21-96

DS-498-A PRINTED IN U.S.A.

PAGE

DS

DISTRICT

03-12 Ulysses, KS

WELL NAME AND NO.

KNIER #1-3

LOCATION (LEGAL)

SEC. 27-34S-374S

FIELD-POOL

HUGOTON

FORMATION

CHASE

COUNTY/PARISH

STEVENS

STATE

KS

API. NO.

NAME

MOBIL OIL CORP.

AND

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS

SAFELY CEMENT 5 1/2 LONG STRING AS PER

CUSTOMERS INSTRUCTIONS

IS CASING/TUBING SECURED?

☐ YES ☐ NO

LIFT PRESSURE

1774

PSI

CASING WEIGHT ÷ SURFACE AREA

(3.14 × R²)

PRESSURE LIMIT

PSI

BUMP PLUG TO

1070

PSI

ROTATE

RPM

RECIPROCATATE

FT

No. of Centralizers

RIG NAME:

NORSEMAN DRIVE RIG #2

WELL DATA:

BIT SIZE 7 7/8" CSG/Liner Size

BOTTOM

57 1/2

TOP

TOTAL DEPTH 3019 WEIGHT

14 #

☒ ROT ☐ CABLE

FOOTAGE

3009

MUD TYPE

GRADE

USS50

☐ BHST☐ BHCT

THREAD

8 RD

MUD DENSITY

LESS FOOTAGE

2963

MUD VISC.

Disp. Capacity

72.3

TOTAL

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

Float

TYPE

AUG-501 FINDER

DEPTH

2963

Stage Tool

TYPE

DEPTH

SHOE

TYPE

CMT. NOSE

DEPTH

3009

TYPE

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 OR OW

☐ NEW ☐ USED

CASING VOL: BELOW TOOL

Bbls

BOT OR OW

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: 0900	DATE: 5-21-96	TIME: 1130	DATE: 5-21-96
0001 to 2400								SERVICE LOG DETAIL			
11:25		2300				H2O	8.3	PRE-JOB SAFETY MEETING			
11:27		70	11	-	4.0	"	"	PRESS. TEST LINES			
11:29			68	11	"	CMT.	11.5	START H2O			
11:47		6.0	18	29	"	"	14.8	START LD. CMT.			
11:52		-		47	-			START TL. CMT.			
11:56								START - DOWN - WASH TO PIT			
11:56		80			6.0	H2O	8.3	DROP TOP PLUG			
12:04		550		63				START DISP			
12:06		440		65				LOWER RATE			
12:06								PSI - CHECK			

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	140	2.75	C+ 3% D. 77 + 2% D. 46 + 1/4 #/SK D. 29				68	11.5
2.								
3.	75	1.37	C+ 2% B. 28 + 2% S. 1 + 1/6% D. 60 + 2% D. 46				18	14.8
4.								
5.								
6.								

BREAKDOWN FLUID TYPE			VOLUME			DENSITY		PRESSURE		MAX. 550 MIN. 60	
☐ HESITATION SQ.			☐ RUNNING SQ.			☐ YES ☒ NO		Cement Circulated To Surf.		☐ YES ☒ NO	
BREAKDOWN			DISPLACEMENT VOL.			72.3		Bbls		TYPE	
Washed Thru Perfs ☐ YES ☐ NO			MEASURED DISPLACEMENT			☐ WIRELINE		☒ OIL ☐ GAS		☐ STORAGE ☐ INJECTION	
PERFORATIONS			CUSTOMER REPRESENTATIVE			DS		SUPERVISOR			
TO TO			DENNIS RUSSELL					Gary Schanne			