

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

API NO. 15- 189-21948-00-00 ORIGINAL

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

X New Well Re-Entry Workover

Oil SWD SLOW Temp. Abd.

X Gas ENHR SIGW

Dry Other (Core, WSW, Expl. Cathodic, etc)

If Workover:

Operator: NOV 28 1995

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.

8-8-95 8-12-95 9-9-95
Spud Date Date Reached TD Completion Date

County Stevens

- SW - NE - NE Sec. 15 Twp. 33S Rge. 37 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 Kuhn Unit Well # 3

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3081 KB 3091

Total Depth 2967 PBDT 2938

Amount of Surface Pipe Set and Cemented at 681 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 7-3-96
(Data must be collected from the Reserve Pit)

Chloride content 19,000 ppm Fluid volume 100 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 11-22-95

Subscribed and sworn to before me this 22nd day of November, 19 95.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998
5-226.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 Kuhn Unit Well # 3

Sec. 15 Twp. 33S 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>Glorietta</td> <td>1190</td> <td>1374</td> </tr> <tr> <td>Stone Corral</td> <td>1668</td> <td>1726</td> </tr> <tr> <td>Chase</td> <td>2555</td> <td>2892</td> </tr> <tr> <td>Council Grove</td> <td>2892</td> <td>--</td> </tr> </tbody> </table>	Name	Top	Datum	Glorietta	1190	1374	Stone Corral	1668	1726	Chase	2555	2892	Council Grove	2892	--
Name	Top		Datum														
Glorietta	1190		1374														
Stone Corral	1668		1726														
Chase	2555		2892														
Council Grove	2892	--															
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																
List All E.Logs Run:																	

Array Induction Shallow Focused Electric Log
 Compensated Neutron Compensated Photo-Density
 Spectral Gamma Ray

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#	681	Class C Class C	215 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2947	Class C Class C	300 150	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	2588-2594	2780-2790	Acid: 1,000 gals 7.5% HCL
	2623-2643		Fract: 759 bbls 20# Crosslink gel	
	2679-2689		125,240 lbs 12/20 Brady Sand	
	2730-2750			

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. 9-7-95	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 332	Water Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval: 2588-
2790

Mobil Oil Corporation

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 0312-7386	DATE 8-11-95
STAGE DS	DISTRICT ULYSSES KS

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

WELL NAME AND NO. KUHEN # 3	LOCATION (LEGAL) SEC 15-33-37	RIG NAME: MURFIN # 24
FIELD-POOL	FORMATION	WELL DATA:
COUNTY/PARISH STEVENS	STATE Kansas	APR. NO.
NAME MOBIL	ORIGINAL	
AND	TOTAL	
ADDRESS	71.7	
ZIP CODE	NOTE: Include Footage From Ground Level To Head In Disp. Capacity	

SPECIAL INSTRUCTIONS SAFELY CUT 5 1/2 LS PER	Float	TYPE O.F. INSERT	DEPTH 2938.28	Stage Tool	TYPE	DEPTH
CLIENT INSTRUCTIONS	SHOE	TYPE CMT Guide	DEPTH 2956	DEPTH	TYPE	DEPTH

IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO	Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB
LIFT PRESSURE 1743 PSI	<input type="checkbox"/> Double	SIZE	TOOL TYPE
PRESSURE LIMIT PSI	<input checked="" type="checkbox"/> Single	<input type="checkbox"/> WEIGHT	DEPTH
ROTATE RPM RECIPROCATATE FT No. of Centralizers	<input type="checkbox"/> Swage	<input type="checkbox"/> GRADE	TAIL PIPE: SIZE DEPTH
	<input type="checkbox"/> Knockoff	<input type="checkbox"/> THREAD	TUBING VOLUME Bbbls
	TOP <input checked="" type="checkbox"/> R <input type="checkbox"/> W	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL Bbbls
	BOT <input type="checkbox"/> R <input type="checkbox"/> W	DEPTH	TOTAL Bbbls
			ANNUAL VOLUME Bbbls

TIME	PRESSURE	VOLUME PUMPED BBL	JOB SCHEDULED FOR TIME: 2200 DATE: 8-11	ARRIVE ON LOCATION TIME: 2130 DATE: 8-11	LEFT LOCATION TIME: 0230 DATE: 8-12-95
0001 to 2400	TBG OR D.P. CASING	INCREMENT CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY

TIME	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
								PRE-JOB SAFETY MEETING
		3000						PRESSURE TEST LINES
0034		290	25		5	H2O	8.32	START WATER AHEAD
0039		370	147	25	6	CMT	11.5	START LEAD CEMENT
0107		190	37	172	4	CMT	14.8	START TAIL CEMENT
0120		-		209	-			CEMENT MIXED - SHUT DW
0121		-		209	-			WASH PUMPE LINES
0124		-		209	-			DROP TOP PLUG
0125		140	71.7	209				START DISPLACEMENT
0137		820		62	5			CEMENT TO SURFACE
0141		850		71.7	4			BUMP TOP PLUG
0142		1300		71.7	2			CHECK FLOAT - FLOAT HOLDING

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS			SLURRY MIXED	
						BBLs	DENSITY
1.	300	2.75	Class C + 3% D79 + 0.2% D46 + 1/4" / 3K D29			147	11.5
2.							
3.	150	1.37	Class C + 2% B28 + 2% SI + 0.6% D60 + 0.2% D46			37	14.8
4.							
5.							
6.							

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX. 1300	MIN: 225K
<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 type="checkbox"/> NO
BREAKDOWN	PSI FINAL	PSI	DISPLACEMENT VOL. 72	Bbbls	TYPE OF WELL
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE	<input checked="" type="checkbox"/> OIL GAS <input type="checkbox"/> STORAGE INJECTION <input type="checkbox"/> BRINE WATER WILDCAT
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS SUPERVISOR	
			RUSSEL WORLEY	GREG GREENWIK	

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

DATE

STAGE

DS

DISTRICT

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

WELL NAME AND NO.

LOCATION (LEGAL)

RIG NAME:

FIELD-POOL

FORMATION

WELL DATA:

BOTTOM

TOP

COUNTY/PARISH

STATE

API. NO.

BIT SIZE

CSG/Liner Size

TOTAL DEPTH

WEIGHT

ROT CABLE

FOOTAGE

MUD TYPE

GRADE

BHST BHCT

THREAD

MUD DENSITY

LESS FOOTAGE SHOE JOINT(S)

TOTAL

MUD VISC.

Disp. Capacity

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

ADDRESS

ZIP CODE

ORIGINAL

SPECIAL INSTRUCTIONS

Float

TYPE

DEPTH

Stage Tool

TYPE

DEPTH

SHOE

TYPE

DEPTH

Stage Tool

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

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE

280

PSI

CASING WEIGHT ÷ SURFACE AREA (3.14 x R²)

PRESSURE LIMIT

PSI

BUMP PLUG TO

750

PSI

ROTATE

RPM

RECIPROCATATE

FT

No. of Centralizers

TOP R W

NEW USED

CASING VOL. BELOW TOOL

Bbls

BOT R 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	DATE	TIME	DATE	TIME	DATE	
0039	1750				2:300	8-95	2:300	8-95	2:230	8-95	
0040	0		25		5.8	H2O					
0043	170		72		5.8	cmt	12.8				
0051	190		35		5.8	cmt	12.8				
0058	200		32.5		5.8	cmt	14.6				
0101	200		22		5.8	cmt	14.6				
0103	0										
0104	0		40.7		5.7	H2O					
0106	160		10		5.7	H2O					
0107	220		20		5.7						
0110	290		33		7.5						
0112	260		27		1.5						
0113	220		39		1.5						
0115	750		40.7		1.5						
0116											

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BBLS	DENSITY	BBLS	DENSITY		
1.	215	1.89	50c	50ppm + 6% gel + 3% carl ₂ + 5% D48 + 1/4 #1079	72.0	12.8		
2.								
3.	150	1.22	50c	50ppm + 2.5% carl ₂ + 1/4 #1079	32.3	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 checked="" type="checkbox"/> NO	Cement Circulated To Surf.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		16 Bbls
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.	40.7 Bbls	TYPE OF WELL	<input type="checkbox"/> OIL <input type="checkbox"/> GAS <input type="checkbox"/> STORAGE <input type="checkbox"/> INJECTION <input type="checkbox"/> BRINE WATER <input type="checkbox"/> WILDCAT
Washed Thru Perfs	<input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE		
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS	SUPERVISOR		
			Russell Woolley		James Esquivel		