

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- 189-22100000

County Stevens

NE - SW - SW Sec. 15 Twp. 32S Rge. 38 X E W

1260 Feet from S/N (circle one) Line of Section

1255 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 WRD #1 Unit Well # 2

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3178 KB 3188

Total Depth 2912 PBDT 2857

Amount of Surface Pipe Set and Cemented at 710 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 Alf. 1, 3-6-98 V.C.  
(Data must be collected from the Reserve Pit)

1-7-97  
Chloride content 15,400 ppm Fluid volume 363 bbls

Dewatering method used Waste Minimization Mud System

Location of fluid disposal if hauled offsite:

Operator Name Mobil Oil Corporation

Lease Name Parker Est. #1-2 SWDW License No. 5208

SW Quarter Sec. 19 Twp. 34 S Rng. 36 E/W

County Stevens Docket No. D-23,898

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

X Oil SWD SLOW 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 PBDT  
Commingled Docket No.  
Dual Completion Docket No.  
Other (SWD or Inj?) Docket No.

9-28-96 10-2-96 10-18-96  
Spud Date Date Reached TD Completion Date

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 1-6-97

Subscribed and sworn to before me this 6th day of January, 19 97.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998  
7-3.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)

NOTARY PUBLIC - State of Kansas  
KATHLEEN R. POULTON  
My Appt. Exp. 08-18-98

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name WRD #1 Unit Well # 2

Sec. 15 Twp. 32S Rge. 38  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 Name Top Datum Glorietta 1260 1420 Stone Corral 1705 1774 Chase 2513 2844 Council Grove 2844 --
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:  
 High Resolution Dual Induction Focused Log Gamma Ray/Caliper  
 Z-Densilog Compensated Neutron Spectralog  
 Caliper Log 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#	710	Class C Class C	275 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2902	Class C Class C	175 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	2570-2585	Acid: 1,000 gals 7.5% HCL	
	2634-2644	Fracd: 30,000 gals 20# Crosslink gel	
	2692-2707	147,420 lbs 12/20 Brady Sand	
	2736-2751		

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. 11-26-96	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 274	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  Other (Specify)

Production Interval: 2570 2751

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER	12 8655	DATE	9-29-96
STAGE	DS	DISTRICT	03 12 URS

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

WELL NAME AND NO. WRD 1-2	LOCATION (LEGAL) Sec 15-32S-38W	RIG NAME: NORMAN #2
FIELD-POOL Hugoton	FORMATION Surface	WELL DATA:
COUNTY/PARISH STEUENS	STATE KJ	APL. NO.
NAME Mobil oil	AND	
ADDRESS	ZIP CODE	

ORIGINAL

BIT SIZE	12 1/4	CSG/Liner Size	8 1/2	TOP
TOTAL DEPTH	720	WEIGHT	24	
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE		FOOTAGE	710	
MUD TYPE		GRADE		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT		THREAD	8 X 9	
MUD DENSITY		LESS FOOTAGE SHOE JOINT(S)	39	TOTAL
MUD VISC.		Disp. Capacity	42.5	

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

SPECIAL INSTRUCTIONS: Safely Rmt Surface Casing  
As directed by Customer!!

Float	TYPE	Baffle Plate	DEPTH	676
SHOE	TYPE	CUT NOSE	DEPTH	710

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE 292 PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT 2000 PSI BUMP PLUG TO 844 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 type="checkbox"/> Single	WEIGHT	DEPTH		
<input type="checkbox"/> Swage	GRADE	TAIL PIPE: SIZE	DEPTH	
<input type="checkbox"/> Knockoff	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		Bbls
BOT <input type="checkbox"/> OR <input type="checkbox"/> W	DEPTH	TOTAL		Bbls
		ANNUAL VOLUME		Bbls

JOB SCHEDULED FOR TIME: ASAP DATE: 9-29-96

ARRIVE ON LOCATION TIME: 0500 DATE: 9-29-96

LEFT LOCATION TIME: 0830 DATE: 9-29-96

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0655								PRE-JOB SAFETY MEETING PSI TEST TO 1910 PSI
0657		115	21	21	5.9	H2O	8.3	START H2O Ahead
0702		70	90	21	5.7	CMT	12.8	START Lead CMT
0718		120	32	111	5.7	CMT	14.6	START Tail CMT
0721								Shutdown
0724		125	30	143	5.7	H2O	8.3	Drop Plug, START Displacement
0729								Returns TO Surface
0736		145	125	173	2.0	H2O	8.3	Lower Pump Rate
0745		844		185.8				Bump Plug Shutdown, Shutting Heads Manifold
0746				185.8				End Job
0746								STOP ACC.
								Bump Plug TO 844 PSI.

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED		
							BBLs	DENSITY	
1.	275	1.89	50/50 PCC	+ 6% 20	+ 3% 51	+ 5% 844 Bwand	+ 1/4 #/SK 29	92.5	12.8
2.	150	1.22	50/50 PCC	+ 2.5% 51	+ 1/4 #/SK 25			32.5	14.6
3.									
4.									
5.									
6.									

BREAKDOWN FLUID TYPE

HESITATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 42.5 Bbls

Washed Thru Perfs  YES  NO TO FT. MEASURED DISPLACEMENT  WIRELINE

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE: Mike Marrs

DS SUPERVISOR: Darrell D Shilling

CEMENTING-SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

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

TREATMENT NUMBER	05-11-81658	DATE	10-1-16
STAGE	DS	DISTRICT	CLYSS

WELL NAME AND NO. W.R.1 # 1-2

FIELD-POOL W.10075

COUNTY/PARISH ST. LAZARE

STATE Ks API. NO.

NAME Mobil Oil Corp

ADDRESS

SPECIAL INSTRUCTIONS

ORIGINAL

RIG NAME: Noesman # 2

WELL DATA:	BOTTOM	TOP
BIT SIZE <u>1 7/8</u>	CSG/Liner Size <u>5 1/2</u>	
TOTAL DEPTH <u>2</u>	WEIGHT <u>14</u>	
<input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE <u>2402</u>	
MUD TYPE	GRADE <u>LISS-55</u>	
<input type="checkbox"/> BHST	THREAD <u>8pd</u>	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) <u>45</u>	TOTAL
MUD VISC.	Disp. Capacity <u>64.1</u>	

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

Float	TYPE <u>Insert Float Valve</u>	DEPTH <u>2857</u>	Squeeze Job	TYPE	DEPTH
	DEPTH			TYPE	DEPTH
Shoe	TYPE <u>rim more</u>	DEPTH <u>2402</u>	SQUEEZE JOB		
	DEPTH		SQUEEZE JOB		

Head & Plugs  TBG  D.P.  SQUEEZE JOB

Double  Single  Swage  Knockoff

SIZE WEIGHT GRADE THREAD

TOOL TYPE DEPTH TAIL PIPE: SIZE DEPTH TUBING VOLUME Bbls

TOP  OR  W  NEW  USED CASING VOL. BELOW TOOL Bbls

BOT  OR  W DEPTH TOTAL Bbls

ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE 1111 PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT 1500 PSI BUMP PLUG TO 1500 PSI

ROTATE RPM RECIPROCATE FT No. of Centralizers

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	
0001 to 2400											
2014	2300										
2016	0		10								
2018	250		80								
2027	180		50								
2033	100		18								
2036	122		9								
2038	0										
2042	0		647								
2044	117		10								
2048	200		30								
2044	303		40								
2051	400		50								
2053	600		60								
2054	550		64								
2056	590		67								
2057	1500		647								
2059											

REMARKS: PRE-JOB SAFETY MEETING - PSI TEST LINES  
start H2O displacement  
start load cement  
PSI check  
start tail cement  
PSI check  
shot down  
start displacement  
PSI check  
" "  
" "  
" "  
1000 psi test  
PSI check  
" "  
bottom too slow  
bleed psi out check float - holding  
OK job

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 + .2% D46 + 4% D24				85.1	11.5
2.								
3.	175	1.37	class C + 2% D28 + 2% D12 + .1% D10 + .2% D46 + 4% D24				18.2	14.8
4.								
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. MIN.

HESITATION SQ.  RUNNING SQ.  CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO Bbls

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. (64.1) 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 DS SUPERVISOR

TO TO M. J. Macos J. ... Equival