

ORIGINAL

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

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: Cheyenne Drilling

License: 5382

Wellsite Geologist: L. J. Reimer

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SLOW 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 PBTB

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

11-13-94 11-16-94 12-16-94

Spud Date Date Reached TD Completion Date

API NO. 15- 189-21849-00-00

County Stevens

NE - SE - SW Sec. 22 Twp. 33S Rge. 38 E
X W

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

2320 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 Coulter #1 Unit Well # 4

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3166 KB 3177

Total Depth 2920 PBTB 2864

Amount of Surface Pipe Set and Cemented at 663 Feet

Multiple Stage Cementing Collar Used? Yes 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 9/1 10-6-95
(Data must be collected from the Reserve Pit)

Chloride content 15,800 ppm Fluid volume 341 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-117710

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 2-16-95

Subscribed and sworn to before me this 16th day of February, 1995.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998

5-45.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)

Form ACO-1 (7-91)

FEB 17 1995
NSO 2-17-95
KANSAS CORPORATION COMMISSION

Operator Name Mobil Oil Corporation Lease Name Coulter #1 Unit Well # 4

Sec. 22 Twp. 33s 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 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:

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

Name	Formation (Top), Depth and Datums		Sample
	Top	Datum	
Glorietta	1200	1375	
Stone Corral	1650	1715	
Chase	2510	2845	
Council Grove	2845	--	

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#	663	Class C Class C	200 sx 175 sx	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2910	Class C Class C	220 sx 220 sx	3% D79 2% B28

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

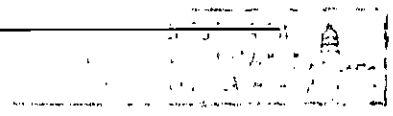
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
	1 SPF	2538-48	2680-2718	Acid: 1,500 gals 7.5% HCL
	2568-98	2735-55	Frac'd: 33,000 gals 15# Crosslink gel 55,000 lbs 10/20 sand	
	2620-50			
	2660-70			

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
		None					
Date of First, Resumed Production, SWD or Inj. 12-15-94			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	Water	Bbls.	Gas-Oil Ratio Gravity
			268				

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

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

Production Interval: 2538 2755



CEMENTING SERVICE REPORT

Schlumberger
Dowell

TREATMENT NUMBER: 3-12-6644
DATE: 11-16-94
STAGE: 1 DS: 03 DISTRICT: 12

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

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO. COULTER 1-4
 LOCATION (LEGAL) SPC 22-335-384
 FIELD-POOL Newton
 COUNTY/PARISH Stevens
 STATE KS API. NO. _____

RIG NAME: cheyenne #4
 WELL DATA: BOTTOM TOP
 BIT SIZE 5 7/8 CSG/Liner Size 5 7/8
 TOTAL DEPTH 1410 WEIGHT 1410
 ROT CABLE FOOTAGE 2910
 MUD TYPE GRADE _____
 BHST BHCT THREAD 910
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) 2910 TOTAL _____
 MUD VISC. Disp. Capacity 70

ORIGINAL

NAME mobil oil corp
 AND _____
 ADDRESS _____
 ZIP CODE _____

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

Float	TYPE	<u>5000 Fill Fluid</u>	Stage Tool	TYPE	
	DEPTH	<u>2869.28</u>		DEPTH	
SHOE	TYPE	<u>cmr case</u>	Stage Tool	TYPE	
	DEPTH	<u>2910</u>		DEPTH	

SPECIAL INSTRUCTIONS
2nd day cement 5 1/2 L/S as per customer 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 1716 PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT 2000 PSI BUMP PLUG TO 1500 PSI
 ROTATE _____ RPM RECIPROCATATE _____ 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: <u>17:00</u>	DATE: <u>11-16-94</u>	TIME: <u>17:00</u>	DATE: <u>11-16-94</u>	TIME:	DATE:	
0001 to 2400					INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL			
18:15								PRE-JOB SAFETY MEETING ✓			
18:30		2000				H2O 8.3		PMS test lines 2000			
18:36		0						PMS test lines			
18:37		100	25			H2O 8.3		start H2O			
18:43		250		27.3		H2O 8.3		end H2O			
18:47		250	108	105		cmr 11.5		start 1200 cmr 11.5			
19:01		200	54			cmr 14.8		start tail cmr 14.8			
19:11						cmr 14.8		end tail cmr			
19:18						H2O 8.3		wash to pit			
19:18		0	70			H2O 8.3		start disp.			
19:23		210		71		H2O 8.3		PMS, chk.			
19:25		550		40		H2O 8.3		PMS, chk.			
19:28		680		61	2	H2O 8.3		lower rate			
19:34		1500		70				bump plug			
19:41								end job			

REMARKS _____

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	220	2.75	class 'c' + 3% 079 + 0.2% 046 + 1/4" p-29				105	11.5
2.	220	1.37	class 'c' + 2% 079 + 2% 051 + 0.6% 060 + 0.2% 046				54	14.8
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE NA VOLUME NA DENSITY _____ PRESSURE 1500 MAX. _____ MIN. _____
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO STATE _____ Bbls
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. Bbls TYPE OF WELL OIL STORAGE BRINE WATER
 GAS INJECTION WILDCAT
 Washed Thru Perfs YES NO TO _____ FT. MEASURED DISPLACEMENT WIRELINE
 PERFORATIONS _____ CUSTOMER REPRESENTATIVE _____ DS SUPERVISOR _____
 TO _____ TO _____
 TO _____ TO _____

FEB 17 1995

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

05 12 6635

DATE

11-13-94

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

STAGE

DS

DISTRICT

JULY 25, KANSAS

WELL NAME AND NO.

Coulter 1-4

LOCATION (LEGAL)

SEC. 22-375-38W

RIG NAME:

Cherokee #4

FIELD-POOL

Hobgobon

FORMATION

SURFACE

WELL DATA:

BOTTOM

TOP

BIT SIZE 12 1/4"

CSG/Liner Size 8 3/8"

24 #

TOTAL DEPTH 673

WEIGHT

663

ROT CABLE

FOOTAGE

663

MUD TYPE WBS

GRADE

BHST BHCT

870F

THREAD

8 id

MUD DENSITY 9

LESS FOOTAGE SHOE JOINT(S)

44.53

MUD VISC.

Disp. Capacity

618.47

TOTAL

618.47

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

Float

TYPE

ROTORILL INSEMI

TYPE

DEPTH

618.47

DEPTH

Shoe

TYPE

CMT. NOSE GUIDE

TYPE

DEPTH

663

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

ROTATE

RPM

RECIPROCATE

FT

No. of Centralizers 5

ANNUAL VOLUME

Bbls

TIME	PRESSURE	VOLUME PUMPED BBL	JOB SCHEDULED FOR TIME: 20:00 DATE: 11-13-94	ARRIVE ON LOCATION TIME: 20:00 DATE: 11-13-94	LEFT LOCATION TIME: 22:32 DATE: 11-13-94
0001 to 2400	TBG OR D.P. CASING	INCREMENT CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY

TIME	PRESSURE	VOLUME PUMPED BBL	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
21:53						PRE-JOB SAFETY MEETING
21:53	900					START Job.
21:56	10	25	6	H ₂ O	8.33	PRESSURE TEST LINES. TEST OK
22:01	170	78	5.9	CMT	12.2	START WATER AMPL. BREAK CIRCULATION
22:12	190	37	6	CMT	14.8	START LEAD SWARM
22:19	40	180				START TAIL SWARM
22:21	280	39	4-6	H ₂ O	8.33	SHUTDOWN. DROP TOP PLUG
22:28	680	179				START DISPLACEMENT
22:31						LOWER RATE
22:32						BUMP TOP PLUG
						BLEED OFF PRESSURE & CHECK FLOAT
						FLOAT HOLD. RELEASE DOWELL
						DP PRIOR TO Bumping Plug = 240 PSI.

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	200	2.2	90/50	C/POZ + 6.1. D20 + 5.1. D44 (Bubaw) + 1/4 pps D29	78.36	12.2		
2.	179	1.2	60/50	C/POZ + 0.75. D20 + 2.1. S2 + 1/4 pps D29	37.40	14.8		
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	N/A	VOLUME	N/A	DENSITY	N/A	PRESSURE	680	MAX.	MIN:
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surf.	<input type="checkbox"/> YES <input type="checkbox"/> NO				22
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.	39.40 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				56.71
PERFORATIONS	TO	TO		CUSTOMER REPRESENTATIVE	MR. BENTON COWAN	DS SUPERVISOR	MR. DAVID R. SARVER		75