

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

API NO. 15- 189-21912 - 0000
County Stevens **ORIGINAL**
NE - NE - SW - SW Sec. 35 Twp. 32S Rge. 36 X W

Operator: License # 5208

1250 Feet from S/N (circle one) Line of Section

Name: Mobil Oil Corporation

1250 Feet from E/W (circle one) Line of Section

Address P.O. Box 2173

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or S (circle one)

2319 North Kansas Avenue

Lease Name Republic Fee #2 Unit Well # 4

City/State/Zip Liberal, KS 67905-2173

Field Name Hugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 3026 KB 3036

Phone (316) 626-1142

Total Depth 2949 PBDT 2894

Contractor: Name: Murfin Drilling Co., Inc.

Amount of Surface Pipe Set and Cemented at 653 Feet

License: 30606

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: L. J. Reimer

If yes, show depth set NA Feet

Designate Type of Completion

If Alternate II completion, cement circulated from NA

X New Well Re-Entry Workover

feet depth to NA w/ NA sx cmt.

Oil SWD SIOW Temp. Abd.

X Gas ENHR SIGW

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

Drilling Fluid Management Plan ALT 1 & 2 11-13-95
(Data must be collected from the Reserve Pit)

If Workover:

Chloride content 3,500 ppm Fluid volume 121 bbls

Operator: _____

Dewatering method used Waste Minimization Mud System

Well Name: _____

Location of fluid disposal if hauled offsite: _____

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. _____

Operator Name Mobil Oil Corporation

Lease Name Hill #3 SWDW

4-11-95 4-15-95 5-12-95

Spud Date Date Reached TD Completion Date

Stevens CD-117710 Docket No.

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 appropriate 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 8-1-95

Subscribed and sworn to before me this 1st day of August, 19 95.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998

5-131.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 Republic Fee #2 Unit Well # 4
 Sec. 35 Twp. 32S Rge. 36 East County Stevens
 West

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"> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> <tr> <td>Glorietta</td> <td>1225</td> <td>1405</td> </tr> <tr> <td>Stone Corral</td> <td>1690</td> <td>1760</td> </tr> <tr> <td>Chase</td> <td>2590</td> <td>2920</td> </tr> <tr> <td>Council Grove</td> <td>2920</td> <td>--</td> </tr> </table>	Name	Top	Datum	Glorietta	1225	1405	Stone Corral	1690	1760	Chase	2590	2920	Council Grove	2920	--
Name	Top		Datum														
Glorietta	1225		1405														
Stone Corral	1690		1760														
Chase	2590		2920														
Council Grove	2920	--															
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:																	

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

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#	653	Class C Class C	200 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2938	Class C Class C	225 150	3% D79 2% 828

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
	See Attached Well History		
1	2590'-2598' 2619'-2627' 2652'-2672'		
1	2707'-2727' 2764'-2779'		

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. 5-4-95			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 483 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 2590 -

(If vented, submit ACO-18.) Other (Specify) _____ 2779

Well Data - Well History Report

Lease: REPUBLIC FEE #2 UT WELL#4 Well #: 4 Well ID: 0053419
 API #: 15-189-21912-00 State: KS County: STEVENS
 Ppty ID: 2057700 OCSG #:

Spud Date: 04/11/1995 Ground Level Elev.: 3026 KB Height: 10
 Spud Time: 00:00 Original Ref Point: KB BH Height: 15
 DF Height:

ORIGINAL

Drilling Job Start/End: 04/11/95 @ 15:00 to 04/15/95 @ 09:00
 Completion Job Start/End: 04/20/95 @ 13:00 to 05/12/95 @ 17:00

DATE	ACTIVITY
04/12/95	CASING OD: 8.625, 24.00# K55, Top/Bot: 0/653
04/15/95	CASING OD: 5.500, 14.00# K55, Top/Bot: 0/2938
04/21/95	PERFORATIONS: 2590-2598 1.0 JSPF; 2619-2627 1.0 JSPF 2652-2672 S 1.0 JSPF; 2707-2727 . 1.0PJSPF; 2764-2779 . 1.0PJSPF

WELLBORE SUMMARY

API WB#	Creation Date	Top	TD	Diam(@TD)	Plug Back Date	Depths PBSD
00	04/11/95	0	2949		04/15/95	2949
00	04/11/95	0	2949		05/12/95	2894

CASING SUMMARY

Date RUN	String	OD	ID	Grade	Wt/FT	Connection	Top/Bot
04/12/95		8.625	8.097	K55	24.00	STC	0/653
04/15/95		5.500	5.012	K55	14.00	ST&C	0/2938

PERFORATION SUMMARY

Perf Date	Top Perf	Btm Perf	Zone Name	SPF	Phase (deg)	Hole Size	J/B	Sqzd
04/21/95	2590	2598	HERINGTON	1.0	0	0.33	J	
04/21/95	2619	2627	UPPER KRIDER	1.0	0	0.33	J	
04/21/95	2652	2672	LOWER KRIDER	1.0	0	0.33	J	
04/21/95	2707	2727	WINFIELD	1.0	0	0.33	J	
04/21/95	2764	2779	TOWANDA	1.0	0	0.33	J	

PERFORATION TIME CODE ACTIVITY

Well Data - Well History Report

DATE	HOURS	CODE	ACTIVITY
1995-04-20	3.00	636	PERFORATE W/4" CSG GUN, 0 DEGREE PHASING . HERINGTON: 2590'-2598'(1.33SPF), U.KR IDER 2619'-2627'(1.33SPF), L.KRIDER: 265 2'-2672'(1.33SPF), WINFIELD: 2707'-2727' (1.33SPF). RDMO ATLAS WIRELINE.

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WELL TREATMENT TIME CODE ACTIVITY

DATE	HOURS	CODE	ACTIVITY
1995-04-21	2.25	655	MIRU DOWELL.
1995-04-21	.50	655	TEST LINES TO 3000 PSI. FRAC'D DOWN CSG W/854 BBLs CROSS LINKED 15# GEL & 145720 # BRADY 12/20 SAND. ARI 50 BPM. RAMPED SAND F/1-8ppg. HAD PARTIAL SCREEN OUT W/ 58 BBLs FLUSH. ISIP 1170, 5 MIN O. BREA KDOWN @ 1950 PSI. MAX 1738. TAGGED PROP 1-7# W/1R 192 27MCI & 8# W/SB124 9MCI, 1 0# W/SC46 16 MCI. RDMO DOWELL. SWI & SHU

Report Generated on: 07/20/95 @ 11:06

End of Report...

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

3-12-9022

DATE

4-11-95

PAGE

DS

DISTRICT

Ulysses, KS 03-12

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

WELL NAME AND NO. REPUBLIC FE# 12-4		LOCATION (LEGAL) SEC 35-32S-36W		RIG NAME: MURFIN #124	
FIELD-POOL Hugoton		FORMATION		WELL DATA:	
COUNTY/PARISH STEVENS		STATE KS	API. NO.	BIT SIZE 12 1/4	CSG/Liner Size 8 7/8
NAME MOBIL OIL CORP		ADDRESS		TOTAL DEPTH 57	WEIGHT 24
AND		ZIP CODE		<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE 652
SPECIAL INSTRUCTIONS				MUD TYPE	GRADE 1550
				<input type="checkbox"/> BHST	THREAD 8RD
				<input type="checkbox"/> BHCT	MUD DENSITY 42
				MUD VISC.	Disp. Capacity 38.3
				MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) 42
				MUD VISC.	Disp. Capacity 38.3
NOTE: Include Footage From Ground Level To Head In Disp. Capacity					
Float	TYPE	BAFFLE PLATE		Type	
Float	DEPTH	610		DEPTH	
Shoe	TYPE	TEXAS PATTERN		Type	
Shoe	DEPTH	653		DEPTH	

ORIGINAL

IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		LIFT PRESSURE 270 PSI		CASING WEIGHT + SURFACE AREA (3.14 x R ²)	
PRESSURE LIMIT 500 OVER PSI		BUMP PLUG TO 320 PSI		TOP <input type="checkbox"/> OR <input type="checkbox"/> W	
ROTATE		RPM	RECIPROCATATE	FT	No. of Centralizers
IS CASING/TUBING SECURED?		SIZE	WEIGHT	GRADE	THREAD
LIFT PRESSURE		TAILO PIPE: SIZE	DEPTH	TUBING VOLUME	Bbls
PRESSURE LIMIT		CASING VOL. BELOW TOOL	TOTAL	ANNUAL VOLUME	Bbls
BUMP PLUG TO		TOTAL	ANNUAL VOLUME	Bbls	Bbls

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME: 2330	DATE: 4-11-95	TIME: 2315	DATE: 4-11-95	TIME: 0445	DATE: 4-12-95	
0001 to 2400											
0200											
0315	3000					H ₂ O	8.34				
0319		30	25		5.0	H ₂ O	8.34				
0325		170	67	25	5.2	CMT	12.8				
0336		280	31	92	5.8	CMT	14.6				
0342				123							
0345		50	38.8		5.3	H ₂ O	8.34				
0351		280		33	5.9	H ₂ O	8.34				
0356		320		39.5							

RECEIVED
STATE CORPORATION COMMISSION
AUG 03 1995
CONSERVATION DIVISION

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	100	1.89	50/50 P021C + 6% D20 + 3% S1 + 5% D44 (BLOW) + 1/4# /SK D29				67.3	12.8
2.	150	1.22	50/50 P021C + 2.5% S1 + 1/4# /SK D29				32.5	14.6
3.								
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 type="checkbox"/> NO		Cement Circulated To Surf.		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
BREAKDOWN		PSI	FINAL	PSI	DISPLACEMENT VOL.	Bbls	TYPE OF WELL	<input type="checkbox"/> OIL	<input type="checkbox"/> STORAGE	<input type="checkbox"/> BRINE WATER	
Washed Thru Perfs		<input type="checkbox"/> YES	<input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE	<input type="checkbox"/> GAS	<input type="checkbox"/> INJECTION	<input type="checkbox"/> WILDCAT	
PERFORATIONS		TO		TO		CUSTOMER REPRESENTATIVE		DS		SUPERVISOR	
						MR. RUSSELL WORLEY				RUSS WAGSTAFF	

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 03-12-7029	DATE 4-15-95
PAGE	DS DISTRICT ULYSSES, KS 03-12

DS-196-A * PRINTED IN U.S.A.

WELL NAME AND NO. REPUBLIC FEE #2-4	LOCATION (LEGAL) SEC 35-32S-36W8
FIELD-POOL HUGSTON	FORMATION CHASE
COUNTY/PARISH STEVENS	STATE KS
API. NO.	

RIG NAME: MURFIN #24			
WELL DATA:			
BIT SIZE 7 1/8	CSG/Liner Size 5 1/2	BOTTOM	TOP
TOTAL DEPTH	WEIGHT 14		
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE 2945		
MUD TYPE	GRADE 1550		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD 8RD		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) 43		TOTAL
MUD VISC.	Disp. Capacity 70.5		

NAME MOBIL OIL CORP.

AND

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS

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

Float	TYPE INERT FLOAT VALVE	TYPE
	DEPTH 2902	
Stage Tool	TYPE CMT ROSE	TYPE
	DEPTH 2938	

ORIGINAL

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE 1736 PSI CASING WEIGHT + SURFACE AREA (8.14 x R²)

PRESSURE LIMIT 500 OVER PSI BUMP PLUG TO PSI

ROTATE RPM RECIPROCATATE 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 checked="" type="checkbox"/> Single	<input type="checkbox"/> WEIGHT	DEPTH
<input type="checkbox"/> Swage	<input type="checkbox"/> GRADE	TAIL PIPE: SIZE DEPTH
<input type="checkbox"/> Knockoff	<input type="checkbox"/> THREAD	TUBING VOLUME Bbls
TOP <input type="checkbox"/> R <input type="checkbox"/> W	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL Bbls
BOT <input type="checkbox"/> R <input type="checkbox"/> W	DEPTH	TOTAL Bbls
		ANNUAL VOLUME Bbls

JOB SCHEDULED FOR TIME: 0300 DATE: 4-15-95	ARRIVE ON LOCATION TIME: 0245 DATE: 4-15-95	LEFT LOCATION TIME: 0630 DATE: 4-15-95
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TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL # 11-13-75
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								
0400								PRE-JOB SAFETY MEETING
0437	2500					H ₂ O 8.34		PRESSURE TEST LINES
0439		10	25		5.8	H ₂ O 8.34		START H ₂ O AHEAD
0443		300	110	25	5.8	CMT 11.5		START LEAD SLURRY
0502		220	36.5	35	5.8	CMT 14.8		START TAIL SLURRY
0508			#	1715				SHUTDOWN/WASH LINES/DROP TOP PLUG
0513		0	70.8		5.8	H ₂ O 8.34		START DISPLACEMENT
0523		790		58	5.8	H ₂ O 8.34		PSI CHECK
0529		1200		70.8				STOP PUMPING/PLUG DOWN/FLOAT HOLDING

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	225	2.75	C + 37% D79 + 0.2% D46 + 1/4 #/SK D29		110	11.5
2.	150	1.37	C + 27% B28 + 27% S1 + 0.6% D60 + 0.2% D46		36.5	14.8
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN: 28 SKS
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING-SQ.	<input type="checkbox"/> CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surf.	<input type="checkbox"/> YES <input type="checkbox"/> NO 19 Bbls
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.	Bbls
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	
			MR. Russell Worley	Russ Wagstaff	