

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- 189-219900000  
County Stevens  
- NE - SW - SW Sec. 12 Twp. 34S Rge. 37 X W

Operator: License # 5208  
Name: Mobil Oil Corporation  
Address P.O. Box 2173  
2319 North Kansas Avenue  
City/State/Zip Liberal, KS 67905-2173

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)

Purchaser: Spot Market  
Operator Contact Person: Sharon Cook  
Phone ( 316 ) 626-1142

Lease Name Springer #2 Unit Well # 4  
Field Name Hugoton

Contractor: Name: Murfin Drilling Co., Inc.  
License: 30606  
Wellsite Geologist: L. J. Reimer

Producing Formation Chase  
Elevation: Ground 3117 KB 3126  
Total Depth 2968 PBDT 2924

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

Amount of Surface Pipe Set and Cemented at 701 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.

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. \_\_\_\_\_  
9-27-95 9-30-95 10-26-95  
Spud Date Date Reached TD Completion Date

Drilling Fluid Management Plan alt I 4-12-96  
(Data must be collected from the Reserve Pit)  
Chloride content 14,300 ppm Fluid volume 380 bbls  
Dewatering method used Waste Minimization Mud System  
Location of fluid disposal if hauled offsite:  
Operator Name Mobil Oil Corporation

RECEIVED  
STATE CORPORATION COMMISSION  
JAN 03 1996  
WICHITA, KANSAS

Lease Name C. W. Creamer #1 SWDW License No. 5208  
NE 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. Cook  
Title Regulatory Assistant Date 1-2-96  
Subscribed and sworn to before me this 2nd day of January,  
19 96.  
Notary Public Kathleen R. Poulton  
Date Commission Expires August 18, 1998  
6-2.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

Operator Name Mobil Oil Corporation Lease Name Springer #2 Unit Well # 4  
 Sec. 12 Twp. 34S Rge. 37  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
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Glorietta	1235	1410
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stone Corral	1710	1780
		Chase	2675	--
		Council Grove	--	--

List All E.Logs Run:  
 Array Induction - GR Linear Correlation  
 Compensated Neutron Lithodensity - GR  
 Natural Spectrometry Gamma Ray  
 Microlog - GR

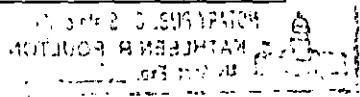
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Casing	12.250	8.625	24#	701	Class C	260	50:50 C/poz
					Class C	150	50:50 C/poz
Production Casing	7.875	5.500	14#	2958	Class C	280	3% D79
					Class C	150	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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	
1 SPF	2700-08		Acid: 1,000 gals 7.5% HCL	Depth
	2744-64		Fract: 900 bbls 20# Crosslink gel	
	2795-2815		131,737 lbs 12/20 Brady Sand	
	2855-70			

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.	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
10-23-95				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
		403		

Disposition of Gas: METHOD OF COMPLETION Production Interval  
 Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled 2700  
 (If vented, submit ACO-18.)  Other (Specify) 2870



CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 3-12-7603 DATE 9-27-95  
 DISTRICT WYSSKS, KS 03-12

DS 493-A PRINTED IN U.S.A.

WELL NAME AND NO. SPRINGER #2-3	LOCATION (LEGAL) SEC 12-34S-37W	RIG NAME: MURFIN #24
FIELD-POOL HUGOTON	FORMATION SURFACE	WELL DATA:
COUNTY/PARISH STEVENS	STATE KS	API. NO.
NAME MOBIL OIL CORP.	AND	ADDRESS
ZIP CODE	SPECIAL INSTRUCTIONS SAFELY CEMENT 8 5/8" SURFACE CASING WITH 260 SRS OF LEAD AND 150 SRS OF TAIL CEMENT AS DIRECTED BY THE CUSTOMER.	

BIT SIZE	CSG/Liner Size	BOTTOM	TOP
TOTAL DEPTH	WEIGHT		
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE		
MUD TYPE	GRADE		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)		TOTAL
MUD VISC.	Disp. Capacity		

ORIGINAL

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

Float	TYPE	DEPTH	Stage Tool	TYPE	DEPTH
	BAFFLE PLATE				
SHOE	TYPE	DEPTH		TYPE	DEPTH
	CMT NOSP				

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  NEW  USED CASING VOL. BELOW TOOL Bbls

BOT  OR  DEPTH TOTAL Bbls

ANNUAL VOLUME Bbls

IS CASING/TUBING SECURED?  YES  NO

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

PRESSURE LIMIT 500 OVER PSI BUMP PLUG TO 940 PSI

ROTATE RPM RECIPROCATATE FT No. of Centralizers

JOB SCHEDULED FOR TIME 2:00 DATE: 9-27-95 ARRIVE ON LOCATION TIME: 2:00 DATE: 9-27-95 LEFT LOCATION TIME: 0:15 DATE: 9-28-95

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								
2300								PRE-JOB SAFETY MEETING
2331	2200		-	-	-	H <sub>2</sub> O	8.33	PRESSURE TEST LINES
2333		0	25	-	5.3	H <sub>2</sub> O	8.33	START H <sub>2</sub> O SPACER
2333		170	87	25	5.7	CMT	12.8	START LEAD SLURRY
2353		160	305	112	5.8	CMT	14.6	START TAIL SLURRY
2359				1425				SHUTDOWN / DROP TOP PLUG
0002		0	42	-	5.3	H <sub>2</sub> O	8.33	START Displacement
0003		350		32	5.7	H <sub>2</sub> O	8.33	PSI CHECK
0012		300		41	2.2	H <sub>2</sub> O	8.33	PSI CHECK
0013		940		41.5				STOP Pump / Plug Down
0014		320						Bled Lines / Close manifold

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	<del>250</del>	1.89	50/50 202/C + 6% D20 + 3% S1 + 5% N44 (BWDWI) + 1/4 #/SK D29		82.5	10.8
2.	<del>150</del>	1.22	50/50 202/C + 2.5% S1 + 1/4 #/SK D29		32.5	14.6
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. MIN: 8736

HESITATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO 28.0 Bbls

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 41.5 Bbls TYPE OF WELL  OIL  STORAGE  BRINE WATER  GAS  INJECTION  WILDCAT (23)

Washed Thru Perfs  YES  NO TO FT. MEASURED DISPLACEMENT  WIRELINE

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE DS SUPERVISOR

Russell Worley Russ Wasstaff

**CEMENTING SERVICE REPORT**

Schlumberger

Dowell

**DOWELL SCHLUMBERGER INCORPORATED**

TREATMENT NUMBER

73-12-7619

DATE

9-30-95

STAGE

DS

DISTRICT

ULVSSS, KS

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

WELL NAME AND NO. **SPRINGER #2-3** LOCATION (LEGAL) **SEC 12-34S-37W**  
 FIELD-POOL **HUGOTON** FORMATION **CHASE**  
 COUNTY/PARISH **STEVENS** STATE **KS** API. NO.

RIG NAME: **MURFIN #24**  
 WELL DATA: BIT SIZE **7 7/8** CSG/Liner Size **6 1/2** BOTTOM TOP  
 TOTAL DEPTH **2960** WEIGHT **14**  
 ROT  CABLE FOOTAGE **2958**  
 MUD TYPE GRADE **US50** ORIGINAL  
 BHST  BHCT THREAD **8RD**  
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) **22** TOTAL  
 MUD VISC. Disp. Capacity **71.6**

NAME **MOBIL OIL CORP.**  
 ADDRESS  
 ZIP CODE

SPECIAL INSTRUCTIONS **SAFETY CEMENT, 5 1/2 P Production CASING with 280 SKS of LEAD AND 150 SKS OF TAIL CEMENT AS DIRECTED BY THE CUSTOMER.**

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

Float	TYPE	<b>INSERT FLOAT VALVE</b>	Sage Tool	TYPE	
	DEPTH	<b>2936</b>		DEPTH	
Sage	TYPE	<b>CMT NOSE</b>	Sage Tool	TYPE	
	DEPTH	<b>2958</b>		DEPTH	

IS CASING/TUBING SECURED?  YES  NO  
 LIFT PRESSURE **1504** PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R<sup>2</sup>)  
 PRESSURE LIMIT **500 OVER** PSI BUMP PLUG TO **1310** PSI  
 ROTATE RPM RECIPROCATATE FT No. of Centralizers

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

JOB SCHEDULED FOR TIME: **0930** DATE: **9-30-95** ARRIVE ON LOCATION TIME: **0915** DATE: **9-30-95** LEFT LOCATION TIME: **1300** DATE: **9-30-95**

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								
1030								PRE-JOB SAFETY MEETING
1107	3000					H <sub>2</sub> O	8.33	PRESSURE TEST LINES
1109		10	12		5	H <sub>2</sub> O	8.33	START H <sub>2</sub> O SPACER
1112		170	137	12	5	CMT	11.5	START LEAD SLURRY
1133		180	36	149	4.0	CMT	14.8	START TAIL SLURRY
1147				185				SHUTDOWN / WASH LINES / DROP TOP PLUG
1152		0	72		5.4	H <sub>2</sub> O	8.33	START Displacement
1204		720		60	4.3	H <sub>2</sub> O	8.33	PSI Check
1209		940		71.1	1.95	H <sub>2</sub> O	8.33	PSI Check
1209		1310		72				STOP PUMP / Plug DOWN
1211								Bleed Lines / Check FLOAT

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	<del>280</del>	2.75	CLASS C4 3% D79 + 0.2% D46 + .25 lbs/sk D79				137.1	11.5
2.	<del>150</del>	1.36	CLASS C + 2% B28 + 2% S1 + 0.6% D40 + 0.2% D46 + .25 lbs/sk D79				36.3	14.8
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. MIN: **455Ks**  
 HESITATION SQ.  RUNNING SQ. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO **22** Bbls.  
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **72** Bbls TYPE OF WELL  OIL  STORAGE  BRINE WATER  
 WASHED THRU PERFS  YES  NO TO FT. MEASURED DISPLACEMENT  WIRELINE  GAS  INJECTION  WILDCAT  
 PERFORATIONS TO TO CUSTOMER REPRESENTATIVE **RUSSELL WORLEY** DS SUPERVISOR **RUSS WAGSTAFF**