

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- 189-21913-00-00

County Stevens
SE - SE - SW - NW Sec. 13 Twp. 33S Rge. 37 X W

Operator: License # 5208

2400 Feet from SW (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 SW (circle one)

2319 North Kansas Avenue

Lease Name Toole #1 Unit Well # 3

City/State/Zip Liberal, KS 67905-2173

Field Name Hugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 3072 KB 3082

Phone (316) 626-1142

Total Depth 2950 PBTD 2896

Contractor: Name: Murfin Drilling Co., Inc.

Amount of Surface Pipe Set and Cemented at 682 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 SLOW Temp. Abd.

Drilling Fluid Management Plan ALT 1 8/9 11-15-95
(Data must be collected from the Reserve Pt)

X Gas ENHR SIGW

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

If Workover:

Chloride content 5,000 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.

 Plug Back

 Commingled Docket No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No.

4-22-95 4-26-95 5-31-95

Spud Date Date Reached TD Completion Date

RECEIVED
STATE CORPORATION COMMISSION
8-30-95
AUG 03 1995

CONVERSION/SWD
PBTB

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 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
5-135.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 Toole #1 Unit Well # 3

Sec. 13 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 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 Caliper
 Z-Densilog Compensated Neutron Spectralog
 Caliper Log - Gamma Ray

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Name	Top	Datum
Glorietta	1202	1380
Stone Corral	1679	1739
Chase	2578	2915
Council Grove	2915	--

CASING RECORD New 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#	682	Class C Class C	225 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2941	Class C Class C	270 150	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
	See Attached Well History		
1.3	2578'-2588' 2644'-2664'		
1.3	2697'-2707' 2747'-2757'		
1.3	2765'-2775' 2803'-2813'		

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 5-24-95 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		92			

Disposition of Gas: METHOD OF COMPLETION Production Interval
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 2578-
 (If vented, submit ACO-18.) Other (Specify) 2813

Well Data - Well History Report

Lease: TOOLE #1 UNIT WELL #3 Well #: 3 Well ID: 0053421
 API #: 15-189-21913-00 State: KS County: STEVENS
 Ppty ID: 2057400 OCSG #:

Spud Date: 04/22/1995 Ground Level Elev.: 3072 KB Height: 10
 Spud Time: 15:30 Original Ref Point: KB BH Height: 0
 DF Height:

ORIGINAL

Drilling Job Start/End: 04/22/95 @ 15:30 to 04/26/95 @ 07:00
 Completion Job Start/End: 05/02/95 @ 07:00 to 05/31/95 @ 17:00

DATE	ACTIVITY
04/23/95	CASING OD: 8.625, 24.00# K55, Top/Bot: 0/682
04/25/95	CASING OD: 5.500, 14.00# J55, Top/Bot: 0/2941
05/03/95	PERFORATIONS: 2578-2588 1.3 JSPF; 2644-2664 1.3 JSPF 2697-2707 S 1.3 JSPF; 2747-2757 . 1.3PJSPF; 2765-2775 . 1.3PJSPF 2803-2813 1.3JJSPF 2747-2757 . 1.3PJSPF; 2765-2775 . 1.3PJSPF
07/12/95	SUBSURFACE MAINTENANCE JOB, Completed: OPEN

WELLBORE SUMMARY

API WB#	Creation Date	Top	TD	Diam(@TD)	Plug Back Depths Date	PBTD
00	04/22/95	0	2950		04/26/95	2950
00	04/22/95	0	2950		05/31/95	2896

RECEIVED
STATE CORPORATION COMMISSION

AUG 03 1995

CASING SUMMARY

Date RUN	String	OD	ID	Grade	Wt/FT	Connection	Top/Bot
04/23/95		8.625	8.097	K55	24.00	ST&C	0/682
04/25/95		5.500	5.012	J55	14.00	STC	0/2941

CONSERVATION DIVISION
WICHITA, KANSAS

PERFORATION SUMMARY

Perf Date	Top Perf	Btm Perf	Zone Name	SPF	Phase Hole (deg)	Hole Size	J/B	Sqzd
05/03/95	2578	2588	HERINGTON	1.3	0	0.33	J	
05/03/95	2644	2664	LOWER KRIDER	1.3	0	0.33	J	
05/03/95	2697	2707	WINFIELD	1.3	0	0.33	J	
05/03/95	2747	2757	TOWANDA	1.3	0	0.33	J	
05/03/95	2765	2775	TOWANDA	1.3	0	0.33	J	
05/03/95	2803	2813	UPPER FT. RILEY	1.3	0	0.33	J	

Well Data - Well History Report

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PERFORATION TIME CODE ACTIVITY

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DATE	HOURS	CODE	ACTIVITY
1995-05-02	2.00	636	PERF, UPPER FT. RILEY, 2803-2813, (1SPF) , TOWANDA 2765- 2775, (1SPF), 2747-2757 (1SPF), WINFIELD 2697-2707 (1SPF)) LOWER KRIDER 2644-2664 (1SPF), HERINGTON 2578 -2588 (1SPF)

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WELL TREATMENT TIME CODE ACTIVITY

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DATE	HOURS	CODE	ACTIVITY
1995-05-03	2.00	655	BREAK DOWN W/WTR. FORM BROKE @ 1895#, FR AC VIA CSG W/151000# 12/20 SND & 850 BBL 'S GELLED X-LINKED FW SND RAMMED, 1PPG-1 1PPG, AIR 50 BPM, MAX TREAT PSI 1406# SD W/58 BBL'S FLUSH IN CSG. ISIP 640#, SND TAGGED W/32mCi IB-142, 11mCi Sb-124, 12 mCi SC-46.
1995-07-13	5.50	657	MIRU DOWELL, TEST LINES TO 3500 PSI. ACI DIZE W/ 1000 GALS 7.5% HCL & 1000 GALS F W IN ALTERNATING 500 GAL STAGES, STARTIN G W/ FW. DROPPED 100 BALL, GOOD BALL ACT ION, NO BALL OUT. FLUSH W/ 66 BBLs FW. B REAKDOWN W/ 2900 PSI @ 3 BPM, AIR 10 BPM MAX 3050. RIH W/ ATLAS GAUGE RING & JUN K BASKET TO CLEAR PERFS.
1995-07-13	.75	655	FRAC'D DOWN CSG W/ 623 BBLs X-LINKED 15# GEL & 106798 # 12/20 SD. AIR 45 BPM, RA MPED F/1-9 ppg. SCREENED OUT W/ 54 BBLs FLUSH IN CSG. ISIP 560, 5 MIN VACUUM, MA X 2000 PSI.

Report Generated on: 07/20/95 @ 11:09

End of Report...

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

7060

DATE

4-25-95

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

STAGE

DS

DISTRICT

1

03

12

WELL NAME AND NO.

Tool 1-3

LOCATION (LEGAL)

SEC. 13-33-37

RIG NAME:

Mobil 24

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

NAME Mobil Oil Corp.

AND

ADDRESS

ORIGINAL

ZIP CODE

SPECIAL INSTRUCTIONS

3rd day cmt. 5 1/2 L/S as per customer's orders as follows

Float

TYPE

auto fill float

DEPTH

2897

SHOE

TYPE

8mt nose

DEPTH

2941

Stage Tool

DEPTH

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

PSI

CASING WEIGHT ÷ SURFACE AREA

1740

(3.14 x R²)

TOP R W

NEW USED

CASING VOL. BELOW TOOL

Bbls

PRESSURE LIMIT

PSI

BUMP PLUG TO 1200

PSI

BOT R W

DEPTH

TOTAL

Bbls

ROTATE

RPM

RECIPROCATATE

FT

No. of Centralizers

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	
0001 to 2400											
0245											PRE-JOB SAFETY MEETING
0258		2570					H2O	8.3			PSI TEST LI-085
0300		250	25	0	5.85		H2O	8.3			START H2O
0305		310		25.5	5.82		H2O	8.3			END H2O
0305		330	132	0	5.79		CMT	11.5			START LOCMT
0328		140		135	4.47		CMT	11.5			END LOCMT
0329		140	37	0	4.01		CMT	14.8			START TL CMT
0335		20		35.7	6.00		CMT	14.8			END TL CMT
0335		20			0.0						SHUT DOWN WASH TO PIT
0339		30	70.7		0		H2O	8.3			PROP PLUG START DISP
0347		580		46	5.66		H2O	8.3			CMT TO SURFACE
0350		730		62	2		H2O	8.3			LOWER RATE
0355		1200		70.6	2		H2O	8.3			RECEIVED PLUG

STATE CORPORATION COMMISSION

AUG 03 1995

CONSERVATION DIVISION
WICHITA, KANSAS

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	270	2.75	C 738 D-79 + 0.2% A-46 + 4# SK 1229		135	11.5
2.						
3.	150	1.37	C 738 D-25 + 2% S-1 + 0.6% D-60 + 0.2% A-46		35	14.8
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 type="checkbox"/> YES <input type="checkbox"/> NO	1200	30
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL.	71 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	
				Volcani Youngblood		Jey P...	

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 05 12 7051 DATE 4-23-95

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

STAGE DS DISTRICT 029569, KANSAS

WELL NAME AND NO. **Toole # 1-3**
 LOCATION (LEGAL) **SEC. 13-335-37W**
 FIELD-POOL **HUGOTON**
 COUNTY/PARISH **STEVENS**
 STATE **KANSAS** API. NO.

RIG NAME: **MURKIN # 24**
 WELL DATA: **BIT SIZE 1 1/4" CSG/Liner Size 8 5/8" TOTAL DEPTH 686 WEIGHT 24**
 ROT CABLE FOOTAGE **682**
 MUD TYPE **WB** GRADE
 BHST BHCT THREAD **8rd**
 MUD DENSITY **9** LESS FOOTAGE SHOE JOINT(S) **42** TOTAL
 MUD VISC. Disp. Capacity **640** **40**

NAME **Mobil Oil**
 AND
 ADDRESS
 ZIP CODE

ORIGINAL

SPECIAL INSTRUCTIONS
SAFELY CEMENT 682 FT. OF 8 5/8" CASING WITH 225 SXS OF LEAD AND 150 SXS OF TAIL CEMENT AS DIRECTED BY CUSTOMER

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

Float	TYPE	BALL BE PLATE	Stage Tool	TYPE
	DEPTH	640		DEPTH
SHOE	TYPE	Texas Balkan		TYPE
	DEPTH	682		DEPTH

Head & Plugs TBG D.P. **SQUEEZE JOB**
 Double WEIGHT GRADE THREAD
 Single GRADE THREAD
 Swage GRADE THREAD
 Knockoff THREAD
 TOP R W NEW USED
 BOT R W DEPTH

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE **252** PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT **2000** PSI BUMP PLUG TO **200 SXS PLUG** PSI
 ROTATE RPM RECIPROCATATE FT No. of Centralizers **5**

JOB SCHEDULED FOR TIME: **02:00** DATE: **4-23-95** ARRIVE ON LOCATION TIME: **02:00** DATE: **4-23-95** LEFT LOCATION TIME: **07:15** DATE: **4-23-95**

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
05:15								PRE-JOB SAFETY MEETING
05:32		1500			5.82	H ₂ O	8.33	START JOB
05:38			25	-	5.82	H ₂ O	8.33	PT LINES. TEST OK
05:43		210	75	25	5.81	CMT	12.8	START WATER AHEAD. BREAK CIRCULATION
05:55		250	32	100	5.79	CMT	14.6	START LEAD SLURRY
06:01		30		132				START TAIL SLURRY
06:05		20	41	132	5.8	H ₂ O	8.33	SHUTDOWN. DROP TOP PLUG
06:13		240		164	2.0	H ₂ O		START DISPLACEMENT
06:16		830		178				Lower Pump Rate
								Bump Top Plug
								SI. CMT HEAD
								Release Dowell

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BBL	WT%	DENSITY	BBL	DENSITY	
1.	225	1.89	50/50	WZ/C + 10% D2O + 3% SA + 5% DAA (Brow)	75.74	12.8		
2.	150	1.22	50/50	WZ/C + 2.5% SA + 1/4 #1SK D29	32.59	14.6		
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE **N/A** VOLUME **N/A** DENSITY **N/A** PRESSURE MAX. MIN: **62.5K**
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO **21** Bbls
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **41** Bbls TYPE OF WELL OIL GAS STORAGE INJECTION BRINE WATER WILDCAT
 Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE
 PERFORATIONS TO TO CUSTOMER REPRESENTATIVE **MR. Russell Worley** DS SUPERVISOR **MR. DAVID R SARVER**