

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

API NO. 15- 055-214510000 **ORIGINAL**

County Finney
- NE - NE - SE Sec. 28 Twp. 24S Rge. 34 X W

Operator: License # 5208

2600 Feet from S/N (circle one) Line of Section

Name: Mobil Oil Corporation

325 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 Brown #14 Unit Well # 16

City/State/Zip Liberal, KS 67905-2173

Field Name Hugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 2936 KB 2945

Phone (316) 626-1142

Total Depth 2738 PBDT 2682

Contractor: Name: Norseman Drilling Inc.

Amount of Surface Pipe Set and Cemented at 967 Feet

License: 3779

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: L. J. Reimer

If yes, show depth set NA Feet

Designate Type of Completion
X New Well Re-Entry Workover

If Alternate II completion, cement circulated from NA

Oil SWD SLOW Temp. Abd.
X Gas ENHR SIGW
Dry Other (Core, WSW, Expl., Cathodic, etc)

feet depth to NA w/ NA sx cmt.

If Workover:

Drilling Fluid Management Plan see I 6-17-96
(Data must be collected from the Reserve Pit) re

Operator: _____

Chloride content 5,100 ppm Fluid volume 130 bbls

Well Name: _____

Dewatering method used Waste Minimization

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite: 5-9-96

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 MAY 09 1996

Lease Name Ernest White #1 SWDW License No. 5208

NE Quarter Sec. 4 Twp. 26 SW 36 E/W

1-17-96 1-21-96 2-16-96
Spud Date Date Reached TD Completion Date

County Kearny Docket No. D-19,847

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 [Signature] Ricardo Pena, Jr.

Title Staff Reservoir Engineer Date 5-8-96

Subscribed and sworn to before me this 8th day of May, 19 96.

Notary Public [Signature]

Date Commission Expires October 1, 1998
6-110.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)

Operator Name Mobil Oil Corporation Lease Name Brown #14 Unit Well # 16

Sec. 28 Twp. 24S Rge. 34 East West
 County Finney

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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets.) 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Submit Copy.) List All E.Logs Run: <p style="text-align: center;">NO LOGS RUN</p>	<input type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> </table>	Name	Top	Datum
Name	Top	Datum		

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#	967	Class C Class C	350 175	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2728	Class C Class C	135 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	2460-80	Acid: 750 gals 7.5% HCL	
	2522-32	Fract: 26,292 gals 20# Crosslink gel	
	2577-92	145,540 lbs 12/20 Brady Sand	

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)		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf 230	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: _____ 2460 _____ 2592 _____

CEMENTING SERVICE REPORT

Schlumberger

15-055-21451-0000

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

Dowell
DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER	DATE
PAGE	DS DISTRICT

WELL NAME AND NO. <i>Brown 14-16</i>	LOCATION (LEGAL) <i>sec.</i>	RIG NAME: <i>WORKMAN 2</i>																												
FIELD-POOL <i>HUGO 700</i>	FORMATION <i>SUFF</i>	WELL DATA:																												
COUNTY/PARISH <i>Flour</i>	STATE <i>K3</i>	API NO.																												
NAME <i>MOBILE</i>	<table border="1"> <tr> <td>BIT SIZE <i>12 1/8</i></td> <td>CSG/Liner Size</td> <td>BOTTOM</td> <td>TOP</td> </tr> <tr> <td>TOTAL DEPTH <i>273</i></td> <td>WEIGHT</td> <td><i>24</i></td> <td></td> </tr> <tr> <td><input type="checkbox"/> ROT <input type="checkbox"/> CABLE</td> <td>FOOTAGE</td> <td></td> <td></td> </tr> <tr> <td>MUD TYPE</td> <td>GRADE</td> <td><i>4550</i></td> <td></td> </tr> <tr> <td><input type="checkbox"/> BHST <input type="checkbox"/> BHCT</td> <td>THREAD</td> <td><i>8RD</i></td> <td></td> </tr> <tr> <td>MUD DENSITY</td> <td>LESS FOOTAGE SHOE JOINT(S)</td> <td><i>9.28</i></td> <td>TOTAL</td> </tr> <tr> <td>MUD VISC.</td> <td>Disp. Capacity</td> <td><i>59</i></td> <td></td> </tr> </table>		BIT SIZE <i>12 1/8</i>	CSG/Liner Size	BOTTOM	TOP	TOTAL DEPTH <i>273</i>	WEIGHT	<i>24</i>		<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE			MUD TYPE	GRADE	<i>4550</i>		<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD	<i>8RD</i>		MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	<i>9.28</i>	TOTAL	MUD VISC.	Disp. Capacity	<i>59</i>	
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MUD VISC.	Disp. Capacity	<i>59</i>																												
ADDRESS	ZIP CODE	NOTE: Include Footage From Ground Level To Head In Disp. Capacity																												

ORIGINAL

SPECIAL INSTRUCTIONS
Boyle unit 2.5 cu per customer

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE *390* PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²)

PRESSURE LIMIT *1500* PSI BUMP PLUG TO *1100* PSI

ROTATE RPM RECIPROCATATE FT No. of Centralizers

Float	TYPE <i>69F P 2974</i>	DEPTH <i>927</i>	Stage Tool	TYPE <i>CR 705E</i>	DEPTH <i>907</i>
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"/> 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			

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											
10:05		2000					1120	8.3			
10:06		20	25		6.0						
10:11		210	125	25	11						
10:32		170		148	4						
10:42											
10:43		90			5.8		1120	8.3			
10:43		90		1	5.8		11	8.3			
10:57		1100					11	11			

RECEIVED
KANSAS CORPORATION COMMISSION
MAY 09 1996
CONSERVATION DIVISION
WICHITA, KS

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BLS	DENSITY	BLS	DENSITY		
1.		1.89	50 C 76% 120 + 3% 5-1 + 5% 1.44 + 4% 5-1 D-29	118	12.8	38	14.6	
2.								
3.		1.22	20 1/2 + 2.5% 5-1 + 4% 5-1 D-29					
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
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

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

15-055-21451-0000
 TREATMENT NUMBER: 15-055-2082
 DATE: 7-21-96
 STAGE: DS DISTRICT: Whiskey, Ks

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

WELL NAME AND NO. BROWN #14-16		LOCATION (LEGAL) Sec 28-245-346		RIG NAME: NORCOMAN #2	
FIELD-POOL Hugoton		FORMATION Ks		WELL DATA:	
COUNTY/PARISH Finney		STATE		BIT SIZE: 12 1/8	
NAME Mobil Oil Corp		API. NO.		CSG/Liner Size: [redacted]	
ADDRESS		ZIP CODE		TOTAL DEPTH: 14	
SPECIAL INSTRUCTIONS		IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		WEIGHT: [redacted]	
		LIFT PRESSURE: 1609 PSI		FOOTAGE: [redacted]	
		PRESSURE LIMIT: PSI		MUD TYPE: [redacted]	
		ROTATE: RPM RECIPROCATE FT No. of Centralizers		GRADE: [redacted]	
				THREAD: 8 1/2	
				LESS FOOTAGE SHOE JOINT(S): 4.5	
				Disp. Capacity: 65.5	

ORIGINAL

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	

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											
1817	3900				1500	7-21-96	1500	7-21-96	2004	7-21-96	
1818	0	25			INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL			
1823	110	60			5.8	H2O	11.5	PRE-JOB SAFETY MEETING + PSI test			
1829	100	33			5.8	cmf	11.5	start H2O ahead			
1835	40	18			5.8	cmf	11.5	start lead cmf.			
1838	60	11			4	cmf	14.8	psi check			
1839	0				4	cmf	14.8	start tail cmf.			
1842	0	65.5						psi check			
1848	50	30			5.8	H2O		shut down wash pump lines deep top plug			
1849	130	40			5.8	H2O		start displacement			
1850	210	16			5.7			psi check			
1851	330	50			5.7			" "			
1852	480	56			2.7			lower rate			
1854	360	60			2.7			psi check			
1856	480	65			2.5			psi check			
1857	1180	65.5			2.5			bump top plug			
1859								bleed psi of check float = holding end job			

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 09 1996

CONSERVATION DIVISION
WICHITA, KS

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	[redacted]	2.75	class C + 3% D79 + .2% D46 + .25#/D29				66.1	11.5
2.	[redacted]							
3.	[redacted]	1.37	class C + 2% B28 + 2% crch + .6% D60 + 2% D46				18.2	14.8
4.								
5.								
6.			Mason A. Cook					

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 checked="" type="checkbox"/> NO		Cement Circulated To Surf.		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
BREAKDOWN		PSI FINAL		PSI		DISPLACEMENT VOL.		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"/>		<input type="checkbox"/> WIRELINE		<input type="checkbox"/> GAS <input type="checkbox"/> INJECTION <input type="checkbox"/> WILDCAT	
PERFORATIONS		TO		TO		CUSTOMER REPRESENTATIVE		DS		SUPERVISOR	
						Russell Woodley				James Engraved	