

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

API NO. 15- 189-220140000

ORIGINAL

County Stevens
NE SW SE Sec. 4 Twp. 33S Rge. 37 X W

Operator: License # 5208

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

Name: Mobil Oil Corporation

1325 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 Lowery #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 3102 KB 3112

Phone (316) 626-1142

Total Depth 2960 PBDT 2928

Contractor: Name: Murfin Drilling Co., Inc.

Amount of Surface Pipe Set and Cemented at 647 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

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 all 5-8-96
(Data must be collected from the Reserve Pit) LD

Operator: _____

Chloride content 2,600 ppm Fluid volume 195 bbls

Well Name: _____

Dewatering method used Waste Minimization Mud System

Comp. Date _____ Old Total Depth _____

Location of fluid disposal if hauled offsite:

- 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 SWD License No. 5208

11-17-95 11-20-95 12-20-95
Spud Date Date Reached TD Completion Date

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, 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

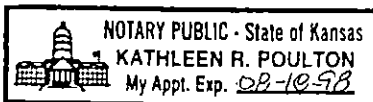
Title Regulatory Assistant Date 2-1-96

Subscribed and sworn to before me this 1st day of February, 1996.

Notary Public Kathleen R. Poulton [Signature]

Date Commission Expires August 18, 1998
6-53.kcc

K.C.C. OFFICE USE ONLY		
F	Letter of Confidentiality Attached	
C	Wireline Log Received	
C	Geologist Report Received	
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other
		(Specify)



RECEIVED

2-2-96

Operator Name Mobil Oil Corporation Lease Name Lowery #1 Unit Well # 3

Sec. 4 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 <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#	647	Class C Class C	215 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2952	Class C Class C	140 80	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	2569-2579	2762-2782	Acid: 1,000 gals 7.5% HCL
	2606-2626		Fract: 1,000 bbls 20# Crosslink gel	
	2660-2670		146,517 lbs 12/20 Brady Sand	
	2713-2733			

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. 12-15-95			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 Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		658			

Disposition of Gas: <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, submit ACO-18.)	METHOD OF COMPLETION <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled	Production Interval _____ 2569 _____ 2782
	<input type="checkbox"/> Other (Specify) _____	

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

DATE

AGE

DS

DISTRICT

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

WELL NAME AND NO. <i>Louppy #1-3</i>		LOCATION (LEGAL) <i>Sec. 4-33c-37a</i>		RIG NAME: <i>Mud Fin #20</i>	
FIELD-POOL <i>Hugoton</i>		FORMATION		WELL DATA:	
COUNTY/PARISH <i>Stephens</i>		STATE <i>Ks</i>		API. NO.	
NAME <i>Mobil Oil Corp</i>		AND		WELL DATA:	
ADDRESS		ZIP CODE		SPECIAL INSTRUCTIONS	

BIT SIZE		CSG/Liner Size	BOTTOM	TOP
2 7/8		5 1/2		
TOTAL DEPTH		WEIGHT		
2952		14		
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE		FOOTAGE		
		2952		
MUD TYPE		GRADE		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT		802		
MUD DENSITY		LESS FOOTAGE SHOE JOINT(S)		
23.5				
MUD VISC.		Disp. Capacity		
		574		

ORIGINAL

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

Float	TYPE	<i>4 1/2" x 4 1/2" Float Valve</i>	Stage Tool	TYPE	
	DEPTH	<i>2928.5</i>		DEPTH	
SHOE	TYPE	<i>cmf nose</i>		TYPE	
	DEPTH	<i>2952</i>		DEPTH	

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		Bbls	

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE *1741* PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²)

PRESSURE LIMIT PSI BUMP PLUG TO *1160* 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	DATE	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE
0001 to 2400											
2240	3100				1900	11-19-95				11:20-95	0030
2248	0		25				5.7	H ₂ O			
2252	290		69				5.7	cmf	11.5		
2258	180		35				5.7	cmf	11.5		
2305	180		19				4	cmf	14.8		
2307	130		11				4	cmf	14.8		
2310	0		714				5.8	H ₂ O			
2312	90		20				5.8	H ₂ O			
2314	100		40				5.7				
2319	260		50				5.7				
2321	450		60				5.7				
2323	490		62				2.2				
2326	480		09				2.2				
2327	510		70				2.2				
2327	1160		71"				2.2				
2328											

REMARKS
PRE-JOB SAFETY MEETING - PSI test
start H₂O ahead
start lead cmf.
PSI check
start tail cmf.
PSI check
shut down wash pump lines deep top plug
start displacement
PSI check
PSI check
PSI check
PSI check
lower rate
PSI check
PSI check
bump top plug
bleed psi of check float holding
PNB job

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS			SLURRY MIXED		
						BBLs	DENSITY	
1.	140	2.75	class C	+ 3% D79	+ .2% D46	+ 1/4" #1 D29	68.5	11.5
2.								
3.	80	1.37	class C	+ 2% B28	+ 2% grade 2	+ .6% D60	19.5	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	Amount Circulated To Surf.		<input type="checkbox"/> YES <input type="checkbox"/> NO
BREAKDOWN		PSI	FINAL	PSI	DISPLACEMENT VOL.		
Washed Thru Perfs	<input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	Bbls		
PERFORATIONS		CUSTOMER REPRESENTATIVE			DS SUPERVISOR		
TO	TO	<i>Dennis Russell</i>			<i>James Esquivel</i>		

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KANSAS CORP COMM
1995 FEB - 2 A 11: 11

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

DATE

AGE

DS

DISTRICT

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

WELL NAME AND NO. <i>Louery #1-3</i>		LOCATION (LEGAL) <i>Sec 4-335-37w</i>		RIG NAME: <i>MudFry # 24</i>					
FIELD-POOL		FORMATION		WELL DATA:		BOTTOM		TOP	
COUNTY/PARISH <i>Stevens</i>		STATE <i>Ks</i>		API. NO.		BIT SIZE <i>2 1/4</i>	CSG/Liner Size <i>8 1/2</i>		
NAME <i>Mobil Oil Corp</i>		ADDRESS		TOTAL DEPTH <i>625</i>		WEIGHT <i>24</i>			
AND		ZIP CODE		<input type="checkbox"/> ROT <input type="checkbox"/> CABLE		FOOTAGE <i>647</i>			
SPECIAL INSTRUCTIONS				MUD TYPE		GRADE <i>15555</i>			
				<input type="checkbox"/> BHST <input type="checkbox"/> BHCT		THREAD <i>8rd</i>			
				MUD DENSITY		LESS FOOTAGE SHOE JOINT(S) <i>40</i>		TOTAL	
				MUD VISC.		Disp. Capacity <i>38.4</i>			

ORIGINAL

NOTE: Include Footage From Ground Level To Head In Disp. Capacity		Float		TYPE <i>6" 11/16 Plate</i>		Stage Tool		TYPE					
		DEPTH		<i>1007</i>				DEPTH					
		SHOE		TYPE <i>cmt hose</i>				TYPE					
		DEPTH		<i>647</i>				DEPTH					
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							
LIFT PRESSURE <i>266</i>		PSI		CASING WEIGHT ÷ SURFACE AREA (3.14 x R ²)		TOP <input checked="" type="checkbox"/> R <input type="checkbox"/> W		<input type="checkbox"/> NEW <input type="checkbox"/> USED		CASING VOL. BELOW TOOL		Bbls	
PRESSURE LIMIT		PSI		BUMP PLUG TO <i>670</i>		BOT <input type="checkbox"/> R <input type="checkbox"/> 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											
<i>1924</i>	<i>1100</i>										
<i>1925</i>	<i>0</i>	<i>25</i>			<i>5.8</i>	<i>H2O</i>					
<i>1930</i>	<i>220</i>	<i>72</i>			<i>5.8</i>	<i>cmt</i>	<i>12.8</i>				
<i>1935</i>	<i>140</i>	<i>32</i>			<i>5.8</i>	<i>cmt</i>	<i>12.8</i>				
<i>1942</i>	<i>120</i>	<i>33</i>			<i>4</i>	<i>cmt</i>	<i>14.6</i>				
<i>1949</i>	<i>150</i>	<i>30</i>			<i>4</i>	<i>cmt</i>	<i>14.6</i>				
<i>1950</i>	<i>0</i>										
<i>1952</i>	<i>0</i>	<i>38.6</i>			<i>4</i>	<i>H2O</i>					
<i>1957</i>	<i>120</i>	<i>20</i>			<i>4.6</i>	<i>H2O</i>					
<i>1959</i>	<i>240</i>	<i>25</i>			<i>4.6</i>						
<i>2000</i>	<i>210</i>	<i>31</i>			<i>2.4</i>						
<i>2002</i>	<i>200</i>	<i>37</i>			<i>2.4</i>						
<i>2004</i>	<i>1670</i>	<i>39</i>			<i>2.4</i>						
<i>2005</i>											

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	<i>215</i>	<i>1.89</i>	<i>50c Super + 6% gel + 3% crch + 5% D44 + 1/4 #1029</i>				<i>12.5</i>	<i>12.8</i>
2.								
3.	<i>150</i>	<i>1.22</i>	<i>50c Super + 2.5% crch + 1/4 #1029</i>				<i>32.5</i>	<i>14.6</i>
4.								
5.								
6.								

BREAKDOWN FLUID TYPE		VOLUME		DENSITY		PRESSURE		MAX.	
<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.	
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO		TO		FT.		MEASURED DISPLACEMENT <input checked="" type="checkbox"/>		<input type="checkbox"/> WIRELINE	
PERFORATIONS		TO		TO		CUSTOMER REPRESENTATIVE		DS SUPERVISOR	
						<i>Dennis Russell</i>		<i>James Esquivel</i>	