

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- 055-21421-0000

County Finney
- NW - SW - SE Sec. 26 Twp. 24S Rge. 34 X E

Operator: License # 5208

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

Name: Mobil Oil Corporation

2500 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 #8 Unit Well # 10

City/State/Zip Liberal, KS 67905-2173

Field Name Hugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 2960 KB 2971

Phone (316) 626-1142

Total Depth 2852 PBDT 2798

Contractor: Name: Murfin Drilling Co., Inc.

Amount of Surface Pipe Set and Cemented at 492 Feet

License: 30606

Multiple Stage Cementing Collar Used? X Yes No

Wellsite Geologist: L. J. Reimer

If yes, show depth set 2000 Feet

Designate Type of Completion

If Alternate II completion, cement circulated from 2844

X New Well Re-Entry Workover

feet depth to surface w/ 675 sx cmt.

 Oil SWD SLOW Temp. Abd.

Drilling Fluid Management Plan all II #6 3-96
(Data must be collected from the Reserve Pit)

X Gas ENHR SIGW

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

If Workover:

Chloride content 16,000 ppm Fluid volume 0 bbls

Operator:

Dewatering method used Waste Minimization Mud System

Well Name:

Location of fluid disposal if hauled offsite:

Comp. Date Old Total Depth

Operator Name Mobil Oil Corporation

 Deepening Re-perf. Conv. to Inj/SWD

 Plug Back PBDT

Lease Name License No. 5208

 Commingled Docket No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No.

 Quarter Sec. Twp. S Rng. E/W

12-2-95 12-5-95 12-29-95
Spud Date Date Reached TD Completion Date

County 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 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 3-26-96

Subscribed and sworn to before me this 26th day of March, 19 96.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998
6-96.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)
RECEIVED
STATE CORPORATION COMMISSION

NOTARY PUBLIC - State of Kansas
KATHLEEN R. POULTON
My Appt. Exp. 08-18-98

MAR 27 1996
Form ACO-1 (7-91)
CONSERVATION DIVISION
Wichita, Kansas
3-27-96

Operator Name Mobil Oil Corporation Lease Name Brown #8 Unit Well # 10

Sec. 26 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input 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		
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
List All E.Logs Run:			
NO LOGS RUN			

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#	492	Class C Class C	175 175	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2844	Class C Class C	575 100	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	2574-2594	Acid: 1,000 gals 7.5% HCL	
	2640-2650	Fract: 27,600 gals 20# Crosslink gel	
	2690-2710	151,000 lbs 12/20 Brady Sand	

TUBING RECORD	Size 2 3/8"	Set At 2669'	Packer At None	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 3-12-96	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf 80	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: _____ 2574 _____ 2710 _____

CEMENTING SERVICE REPORT

Schlumberger

15.055-21421-0000

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 7921	DATE 12-4-95
STAGE 2	DS 03
DISTRICT 12	PG 1 of 2

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

WELL NAME AND NO. Brown 810	LOCATION (LEGAL) Sec. 26-245-344	RIG NAME: MUFFIN 22
FIELD-POOL HUSATON	FORMATION Chase	WELL DATA:
COUNTY/PARISH Finney	STATE KS.	API. NO.
NAME mobil		
AND		
ADDRESS		
ZIP CODE		

BIT SIZE 7 7/8	CSG/Liner Size	BOTTOM	TOP
TOTAL DEPTH 852	WEIGHT 14	ORIGINAL	
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE		
MUD TYPE	GRADE USS50		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD 6RD		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) 281.6		1997
MUD VISC.	Disp. Capacity 68.7		48.7

SPECIAL INSTRUCTIONS

Baffle, cmt 5 1/2 stage as per customer orders

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)

PRESSURE LIMIT PSI BUMP PLUG TO 157 stage 990 PSI

ROTATE RPM RECIPROCATATE FT No. of Centralizers

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

Float	TYPE	autoFillins	Stage Tool	TYPE	
	DEPTH	2798		DEPTH	2001 robot
SHOE	TYPE	cm nose	Stage Tool	TYPE	
	DEPTH	2850		DEPTH	

Head & Plugs TBG D.P. SQUEEZE JOB

Double * SIZE WEIGHT GRADE

Single GRADE TAIL PIPE: SIZE DEPTH

Swage KNOCKOFF THREAD TUBING VOLUME Bbls

TOP NEW USED CASING VOL. BELOW TOOL Bbls

BOT NEW USED 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	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0001 to 2400											
18:47		3350		X		H2O	8.3		12-4		
18:48		30	26	X	5.8	"	"				
18:53		260	37	26	5.8	cmt	11.5				
19:02		160	25	63		cmt	14.8				
19:05		-		88							
19:09		-									
19:09		30	20		5	H2O	8.3				
19:13		90	50	20	5	mud	9.2				
19:15		90		31	5	"	"				
19:19		80		47	2	"	"				
19:20		110		51	5	"	"				
19:23		290		62	5	"	"				
19:25		400		69	2	"	"				
19:26		990		70		"	"				
19:30											
19:38		900				"	"				

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MAR 27 1996
CONSERVATION DIVISION
Wichita Kansas

REMARKS 1860' to open stag toll with hydrostatic test. +/- 3100 63 SKS TOPIT

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1st stage		2.75	C+3% D79 + 0.02% D-46 + 0.25% SK D-29				77	11.5
2nd stage		1.37	C+2% B28 + 2% S-1 + 0.6% D-60 + 0.2% D-46				75	14.8
3rd stage								
4th stage	250	2.75	C+3% D79 + 0.2% D-46 + 1/4% SK D-29					
5th stage								11.5
6th stage								

BREAKDOWN FLUID TYPE HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 70 Bbls

Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE DS SUPERVISOR

marvin HARVEY REJ Pearson

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

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

TREATMENT NUMBER: 1721
 DATE: 12-4-95
 STAGE: 1 DS: 03 DISTRICT: 12
 PG 2 of 2

WELL NAME AND NO. <i>Brown 8-10</i>	LOCATION (LEGAL) <i>SEC. 26-245-34w</i>	RIG NAME: <i>MIX Fld 22</i>
FIELD-POOL <i>Hugoton</i>	FORMATION <i>chase</i>	WELL DATA:
COUNTY/PARISH <i>Finney</i>	STATE <i>KS.</i>	API. NO.
NAME <i>mobil</i>		
AND		
ADDRESS		
ZIP CODE		

BIT SIZE <i>7 3/4</i>	CSG/Liner Size	BOTTOM	TOP
TOTAL DEPTH	WEIGHT		
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE	ORIGINAL	
MUD TYPE	GRADE		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)		
MUD VISC.	Disp. Capacity		TOTAL

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

Float	TYPE	DEPTH	Stage Tool	TYPE	DEPTH
					<i>2001</i>
SHOE	TYPE	DEPTH		TYPE	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		

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE PSI CASING WEIGHT ÷ SURFACE AREA (3.14 × R²)

PRESSURE LIMIT PSI BUMP PLUG TO *2100* PSI

ROTATE RPM RECIPROCATE FT No. of Centralizers

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR TIME: 23:15 DATE:			ARRIVE ON LOCATION TIME: DATE:		LEFT LOCATION TIME: DATE:	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL			
0001 to 2400								PRE-JOB SAFETY MEETING			
23:21						H2O	8.3	start 2nd stage			
23:22		170	26	X	5.8	11	11	start H2O			
23:27		210	125	26	5.8	CMPT	11.5	start amt.			
23:49				151				shut down wash to bit			
23:52		160	48.5		5.8	H2O	8.5	prop closing plug start disp			
23:56		250		20	5.8	11	11	psi check			
23:57		280		30	5.8	11	11	psi check			
23:58		310		36	2.	11	11	lower rate			
00:03		320		47	2	11	11	psi check			
00:05		2110		48.5	2	11	11	bump closing plug			
00:08		-		-	-	-	-	check stage tool end job			

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 CONSERVATION DIVISION
 Wichita, Kansas

REMARKS: *2nd stage*

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS			SLURRY MIXED	
						BBLs	DENSITY
<i>2nd stage</i>	250	2.75	<i>C+3% 0-79 + 0.2% 0-46 + 1/4% 0-99</i>			125	14.5
3.							
4.							
5.							
6.							

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX. 2110	MIN: 160
<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. 48.5	Bbls
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT <input type="checkbox"/>	<input type="checkbox"/> WIRELINE	
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS	SUPERVISOR
			<i>Marvin Harvey</i>		<i>Ref Pearson</i>

CEMENTING SERVICE REPORT

Schlumberger

15-055-21421-0000

TREATMENT NUMBER: 03-12-1711
 DATE: 12-02-95
 STAGE: 1 DS DISTRICT: W45565, KS 03-12

Dowell
 DOWELL SCHLUMBERGER INCORPORATED

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

WELL NAME AND NO. LOCATION (LEGAL) RIG NAME:
 BROWN #810 SEC 26-245-34W MURETU #22
 FIELD-POOL FORMATION
 HUGOTON
 COUNTY/PARISH STATE API. NO.
 FINNEY KS
 NAME: MOBIL OIL
 AND
 ADDRESS
 ZIP CODE
 SPECIAL INSTRUCTIONS
 CEMENT PRODUCTION CASING AS PER BELOW SCHEDULE
 IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE PSI CASING WEIGHT - SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT 1500 PSI BUMP PLUG TO 840 PSI
 ROTATE RPM RECIPROCATATE FT No. of Centralizers

WELL DATA: BOTTOM TOP
 BIT SIZE 12 1/4 CSG/Liner Size
 TOTAL DEPTH 102 WEIGHT 244
 ROT CABLE FOOTAGE
 MUD TYPE GRADE
 BHST BHCT THREAD
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) 952
 MUD VISC. Disp. Capacity 29
 NOTE: Include Footage From Ground Level To Head In Disp. Capacity

ORIGINAL

Float TYPE RAFFLE PLATE TYPE
 DEPTH 457 DEPTH
 SHOE TYPE GUIDE TYPE
 DEPTH 495 DEPTH

Head & Plugs TBG D.P. SQUEEZE JOB
 Double SIZE
 Single WEIGHT
 Swage GRADE TAIL PIPE: SIZE DEPTH
 Knockoff THREAD TUBING VOLUME Bbls
 TOP OR W NEW USED CASING VOL. BELOW TOOL Bbls
 BOT OR W DEPTH TOTAL Bbls
 ANNUAL VOLUME Bbls

TIME PRESSURE VOLUME PUMPED BBL JOB SCHEDULED FOR ARRIVE ON LOCATION LEFT LOCATION
 0001 to 2400 TBG OR D.P. CASING INCREMENT CUM INJECT RATE FLUID TYPE FLUID DENSITY TIME: 1700 DATE: 12-2-95 TIME: 1730 DATE: 12-2-95 TIME: DATE: 12-02-95

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
1730	ARRIVE		LOC-SPOT	UNITS	4 H						
1836		1800				H ₂ O	8.3				
1838		100	25	0	6 RPM	H ₂ O	8.3				
1842		150	59	25	6 RPM	CMT	12.8				
1852		230	41	84	5 RPM	CMT	14.6				
1900		10		125							
1902		120	10	135	5 RPM	H ₂ O	8.3				
1091904		190	10	145	5 RPM	H ₂ O	8.3				
1906		170	9	154	3 RPM	H ₂ O	8.2				
1909		840		154							

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REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BLS	DENSITY	BLS	DENSITY		
1.		1.89	50/50 P02/C	6.2% D20, 3% S1, 5% D44, 1/4" D29	59	12.8		
2.		1.22	50/50 P02/C	2.5% S1, 1/4" D29	41	14.6		
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. 840 MIN: 0
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO 59 19 Bbls
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 29 Bbls
 Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE
 PERFORATIONS CUSTOMER REPRESENTATIVE DS SUPERVISOR
 TO TO TO TO MO. MARVIN HARVEY LOUIS H DILLON