

Operator Name Mobil Oil Corporation Lease Name M. Mangels Unit Well # 4
 Sec. 6 Twp. 34S Rge. 39 East County Morton
 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	1307	1470
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stone Corral	1763	1778
List All E.Logs Run:		Chase	2542	2880
		Council Grove	2880	--
High Resolution Dual Induction Focused Log Gamma Ray/Caliper				
Z-Densilog Compensated Neutron Spectralog				
Caliper Log Gamma Ray				

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#	591	Class C Class C	200 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2933	Class C Class C	140 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	2605-2615 2771-2786	Acid: 1,000 gals 7.5% HCL	
	2638-2648	Fract: 950 bbls 20# Crosslink gel	
	2658-2668	141,775 lbs 12/20 Brady Sand	
	2716-2731		

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. 1-11-96	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	327	Water Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled

Production Interval: 2605 2786

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 79811		DATE 12-11-75
PAGE 1	DS 67	DISTRICT 12

D6-496-A PRINTED IN U.S.A.

WELL NAME AND NO. MON. 815 4	LOCATION (LEGAL) 531.6 746-394
FIELD-POOL Higdon	FORMATION C1.42
COUNTY/PARISH MORTON	STATE KS
API. NO.	

RIG NAME: MURFIN 24		
WELL DATA:	BOTTOM	TOP
BIT SIZE 7	CSG/Liner Size 7	
TOTAL DEPTH 13	WEIGHT 14	
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE 79	
MUD TYPE	GRADE W	
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD 1	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) 7.31	TOTAL
MUD VISC.	Disp. Capacity 71	

ORIGINAL

NAME **MOB 1**

AND _____

ADDRESS _____

ZIP CODE _____

SPECIAL INSTRUCTIONS
Bottom 100' to 115' above air-tail - no return

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE **1700** PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)

PRESSURE LIMIT **1500** PSI BUMP PLUG TO **1370** PSI

ROTATE RPM RECIPROCATE FT No. of Centralizers

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

Floor	TYPE	OUTER FILL	Stage Tool	TYPE	
	DEPTH	7.10		DEPTH	
SHOE	TYPE	CMT NOSE		TYPE	
	DEPTH	21.3		DEPTH	

Head & Plugs Double Single Swage Knockoff

TBG D.P.

SQUEEZE JOB

TOOL TYPE DEPTH

TAIL PIPE: SIZE DEPTH

TUBING VOLUME Bbls

CASING VOL. BELOW TOOL Bbls

TOTAL Bbls

ANNUAL VOLUME Bbls

ARRIVE ON LOCATION TIME: **07:00** DATE: **12-11-75**

LEFT LOCATION TIME: _____ DATE: _____

TIME	PRESSURE		VOLUME PUMPED GBL		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											
05:35		1560		X		110	8.3				
05:36		720	21	X	5.2	"	"				
05:42		260	70	31	5.2	W	11.5				
05:55		90	18	101	2.6	WT	14.4				
06:02		70		119	2.1	"	"				
06:05		100		1	CR	H2O	8.3				
06:17		670		61	5.9	"	"				
06:17		500		6	2	"	"				
06:31		620		70	2	"	"				
06:31		1270		71	2	"	"				
06:33											

RECEIVED
KANSAS CORP COMM
990 FEB-5 A 8:59

REMARKS **last 25 bbls circulation with 100' of air-tail - no return**

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED		
					BBLs	DENSITY	
1.	110	2.75	C1 5% D-7170.2% D-467 4% H-27			70	11.1
2.							
3.	110	1.37	C1 + 2% B-28 + 2% H-1 + 1.6% D-60 + 1.2% D-46 + 0.3% D-71			18	14.8
4.							
5.							
6.							

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

DISPLACEMENT VOL. **71** Bbls

MEASURED DISPLACEMENT WIRELINE

Washed Thru Perfs YES NO TO _____ FT.

PERFORATIONS TO _____ TO _____

CUSTOMER REPRESENTATIVE **W. J. Morkley**

DENSITY _____ PRESSURE MAX. **1270** MIN: **70**

Cement Circulated To Surf. YES NO Bbls

TYPE OF WELL OIL STORAGE BRINE WATER WILDCAT

GAS INJECTION DS SUPERVISOR **R. J. P. ...**

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 23-12-7953 DATE 12-11-95
 STAGE 1 DS DISTRICT UKS 23-12

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

WELL NAME AND NO. **MAISLES #11** LOCATION (LEGAL) **SEC 6-345-39W** RIG NAME: **MURFIN #24**

FIELD POOL **HUGOTON** FORMATION _____ WELL DATA: BIT SIZE **12 1/4** CSGL/Liner Size **2 3/8** BOTTOM _____ TOP _____

COUNTY/PARISH **MORTON** STATE **KS** APL. NO. _____ TOTAL DEPTH **596'** WEIGHT **247** ROT CABLE FOOTAGE **50**

NAME **MORIL OIL** MUD TYPE **50L** GRADE _____ MUD DENSITY _____ LESS FOOTAGE SHOE JOINT(S) **549** MUD VISC. _____ Disp. Capacity **35**

ADDRESS _____ ZIP CODE _____

SPECIAL INSTRUCTIONS

CEMENT 8 3/4" CASING AS PER
 K&LW SCHEDULE

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE **247** PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R²) _____

PRESSURE LIMIT **1500** PSI BUMP PLUG TO **1270** PSI

ROTATE _____ RPM RECIPROCATATE _____ FT No. of Centralizers **5**

Head & Plugs TBG D.P. SQUEEZE JOB

Double Single Swage Knockoff

SIZE _____ WEIGHT _____ GRADE _____ THREAD _____

TOOL TYPE _____ DEPTH _____

TAIL PIPE: SIZE _____ DEPTH _____

TUBING VOLUME _____ Bbls

CASING VOL. BELOW TOOL _____ Bbls

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								2100	12-11-95	2045	12-11-95
2045	ARRIVE		100	500	500	H ₂ O	8.3	PRE-JOB SAFETY MEETING TO HOLE			
2300								HOOK TO CASING - RIG TO CIRCULATE HOLE			
2300								TEST LINES			
2320								BLEED PRESSURE			
2320								START WATER			
2324								START LEAD SLURRY (SYSTEM 1)			
2327								PRESSURE READING			
2332								PRESSURE READING			
2335								START TAIL SLURRY (SYSTEM 2)			
2338								PRESSURE READING			
2342								SHUT DOWN			
2344								DROP PLUG - START DISP.			
2348								PRESSURE READING			
2350								LOWER RATE			
2353								PLUG DOWN			
2355								BLEED PRESSURE - SHUT IN HEADDL			

REMARKS **PRESSURE ON PACR 300 PSI HIGH**

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED				
			50/50	POZ/IC	3/2	5/2	BBLs	DENSITY			
1.	200	1.89	50/50	POZ/IC	6.20	2.00	3.20	5.20	14.29	67.3	12.8
2.	150	1.22	50/50	POZ/IC	2.57	5.2	14.29			32.5	14.6
3.											
4.											
5.											
6.											

BREAKDOWN FLUID TYPE _____ VOLUME _____ DENSITY _____ PRESSURE MAX **1270** MIN: **0**

HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO

BREAKDOWN _____ PSI FINAL _____ PSI DISPLACEMENT VOL. **35** Bbls

Washed Thru Perfs YES NO TO _____ FT. MEASURED DISPLACEMENT _____ WIRELINE

OPERATIONS _____ TO _____ TO _____ CUSTOMER REPRESENTATIVE **MR. RUSSELL WORLEY** DS SUPERVISOR **LOUIS H. DILLON**