

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

Operator: License # 5208

Name: Mobil Oil Corporation

Address P.O. Box 2173

2319 North Kansas Avenue

City/State/Zip Liberal, KS 67905-2173

Purchaser: Spot Market

Operator Contact Person: Sharon Cook

Phone (316) 626-1142

Contractor: Name: Murfin Drilling Co., Inc.

License: 30606

Wellsite Geologist: L. J. Reimer

Designate Type of Completion

New Well  Re-Entry  Workover

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

If Workover:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBTB  
 Conmingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

8-18-97 8-21-97 9-24-97  
Spud Date Date Reached TD Completion Date

API NO. 15- 189-222090000 \_\_\_\_\_

County Stevens

NE - SW - SW Sec. 4 Twp. 34 Rge. 36 X W<sup>E</sup>

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

1250 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, SE, NW or SW (circle one)

Lease Name Elmo Lodge #2 Unit Well # 3

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3067 KB 3077

Total Depth 2961 PBTB 2914

Amount of Surface Pipe Set and Cemented at 639 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set NA Feet

If Alternate II completion, cement circulated from: NA

feet depth to NA w/ NA sx cmt.

Drilling Fluid Management Plan A.H.I., 4-29-98 U.C.  
(Data must be collected from the Reserve Pit) 12-11-97

Chloride content 14,000 ppm Fluid volume 225 bbls

Dewatering method used Waste Minimization Mud System

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name Mobil Oil Corporation

Lease Name \_\_\_\_\_ License No. 5208

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W

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.

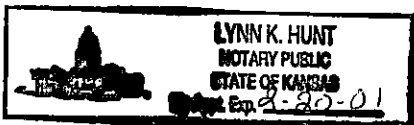
Signature Sharon A. Cook Sharon, A. Cook  
Title Regulatory Assistant Date 12-10-97

Subscribed and sworn to before me this 10th day of December, 19 95.

Notary Public Lynn K. Hunt

Date Commission Expires February 20, 2001  
7-93.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)



SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Elmo Lodge #2 Unit Well # 3  
 Sec. 4 Twp. 34 Rge. 36  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:  
 NO LOGS RUN

Log Formation (Top), Depth and Datums  Sample  
 Name Top Datum

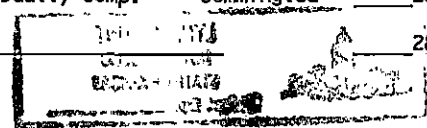
CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface Casing	12.250	8.625	24#	639	Class C Class C	200 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2951	Class C Class C	225 100	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
2 SPF	2682-88	Acid: 1,000 gals 7.5% HCL	
	2750-65	Fract'd: 34,620 gals WF130 in 70q foam	
	2808-16	105,460 lbs 16/30 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)			
9-22-97				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity
		107		

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  
 METHOD OF COMPLETION:  Open Hole  Perf.  Dually Comp.  Commingled  
 Production Interval: 2682  
2816





# Cementing Service Report

ORIGINAL

Customer	Job Number
MOBIL OIL CORP V390500757A	20013883

Well		Location (logal)		Dowell Location		Service Date	
ELMO LODGE 2-3		SEC 4-34S-36W		Ulysses, KS		8/12/97	
Field		Formation Name/Type		Deviation		Well MD	
HUGOTON		Dolomite		0 °		2,961 ft	
County		State/Province		BHP		Well TVD	
STEVENS		KS		0 psi		2,961 ft	
Rig Name		Drilled For		Service Via		Casing/Liner	
MURFIN #22		Gas		Land		Depth, ft	
Water Depth		Well Class		Well Type		Size, in	
0		101		Development		Weight, lb/ft	
Drilling Fluid Type		Max. Density		Plastic Viscosity		Grade	
Bentonite		9.2 lb/gal		0 cp		Thread	
Service Line		Job Type		Perforations/Open Hole		Top, ft	
Cementing		Cem Prod Casing		Single cement head		Bottom, ft	
Max. Allowed Tubing Pressure		Max. Allowed Ann. Pressure		WellHead Connection		spf	
2500 psi		2500 psi		Single cement head		No. of Shots	
Service Instructions		SAFELY CEMENT 5 1/2 PRODUCTION CASING AS PER CUSTOMERS ORDERS.		I.D. MTHARVEY LOC 63122 FIELD EST. 7536.62		Total Interval	
0		0		0		0 ft	
0		0		0		Diameter	
0		0		0		0 in	
Treat Down		Displacement		Packer Type		Packer Depth	
Casing		70.9 bbl				0 ft	
Tubing Vol.		Casing Vol.		Annular Vol.		Open Hole Vol	
0 bbl		72.2 bbl		0 bbl		0 bbl	

Casing/Tubing Secured <input type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>	Casing Tools		Squeeze Job	
Lift Pressure: 0 psi	Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Shoe Type: Guide	Squeeze Type	
No. Centralizers: 0	Top Plugs: 1	Bottom Plugs: 0	Shoe Depth: 2961 ft	Tool Type:	
Cement Head Type: Single	Job Scheduled For: 8/21/97 3:30		Stage Tool Type	Tool Depth: 0 ft	
Arrived on Location: 8/21/97 3:30	Leave Location: 8/21/97 8:00		Stage Tool Depth: 0 ft	Tail Pipe Size: 0 in	
			Collar Type: Auto-Fill	Tail Pipe Depth: 0 ft	
			Collar Depth: 2904 ft	Sqz Total Vol: 0 bbl	

Time	Cum/Vol	Density	Pressure U1	Pump	Message			
24 hr clock	bbl	ppg	psi	bpm				
6:08	0	0	0	0	0	0	0	START ACQUISITION
6:08	0	8.379	-4.568	0	0	0	0	
6:09	.2544	8.34	1027	5903E-5	0	0	0	
6:09	0	0	0	0	0	0	0	Pressure Test Lines
6:09	.2642	8.372	3271	5028E-8	0	0	0	
6:10	.2642	8.365	3.844	2827E-12	0	0	0	
6:10	.9405	8.418	242.3	4.176	0	0	0	
6:11	4.339	8.411	297.8	5.601	0	0	0	
6:12	7.808	8.435	299.3	5.592	0	0	0	
6:12	11.28	8.423	303.6	5.593	0	0	0	
6:13	14.75	8.423	307.3	5.593	0	0	0	
6:13	18.22	8.415	310.1	5.58	0	0	0	
6:14	21.69	8.402	348	5.585	0	0	0	
6:15	25.16	8.313	334.9	5.591	0	0	0	
6:15	0	0	0	0	0	0	0	Start Mixing Lead Slurry
6:15	0	0	0	0	0	0	0	[CumVol]=26.57 bbl
6:15	0	0	0	0	0	0	0	Reset Volume
6:15	1.979	11.45	357.5	5.593	0	0	0	
6:16	5.447	11.58	354.9	5.592	0	0	0	
6:17	8.916	11.33	335.5	5.602	0	0	0	
6:17	12.38	11.25	312	5.592	0	0	0	

Well		Field			Service Date	Customer		Job Number
ELMO LODGE #2-3		HUGOTON			8/12/97	MOBIL OIL CORP V39050079		20013683
Time	CumVol	Density	Pressure U1	Pump				Message
24 hr clock	bbl	ppg	psi	bpm				
6:18	15.86	11.33	299.1	5.59	0	0	0	
6:18	19.33	11.26	278.9	5.592	0	0	0	
6:19	22.8	11.18	269.6	5.592	0	0	0	
6:20	26.27	11.21	256.4	5.59	0	0	0	
6:20	29.74	11.43	245.4	5.592	0	0	0	
6:21	33.22	11.51	237.2	5.59	0	0	0	
6:22	36.69	11.57	221.9	5.592	0	0	0	
6:22	40.18	11.54	211.9	5.71	0	0	0	
6:23	43.73	11.51	196.7	5.712	0	0	0	
6:23	47.28	11.57	179.1	5.711	0	0	0	
6:24	50.82	11.57	162.2	5.708	0	0	0	
6:25	54.37	11.57	141.6	5.71	0	0	0	
6:25	57.91	11.56	140.6	5.71	0	0	0	
6:26	61.46	11.53	135.3	5.72	0	0	0	
6:27	65.01	11.5	135.9	5.718	0	0	0	
6:27	68.55	11.47	136.3	5.718	0	0	0	
6:28	72.11	11.4	133	5.711	0	0	0	
6:28	75.65	11.64	138	5.71	0	0	0	
6:29	79.19	11.65	134.3	5.715	0	0	0	
6:30	82.73	11.68	137	5.711	0	0	0	
6:30	86.29	11.46	131.4	5.712	0	0	0	
6:31	89.83	11.43	130.2	5.711	0	0	0	
6:31	93.38	11.42	127	5.707	0	0	0	
6:32	96.92	11.45	125.9	5.716	0	0	0	
6:33	100.5	11.31	124.1	5.718	0	0	0	
6:33	104	11.89	129.9	5.71	0	0	0	
6:34	107.6	11.47	122.3	5.711	0	0	0	
6:35	111.1	11.78	123.5	5.708	0	0	0	
6:35	0	0	0	0	0	0	0	End Lead Slurry
6:35	114.6	11.34	116.5	5.72	0	0	0	
6:35	0	0	0	0	0	0	0	Reset Volume
6:35	0	0	0	0	0	0	0	[CumVol]=115 bbl
6:35	0	0	0	0	0	0	0	Start Mixing Tail Slurry
6:36	3.062	15.56	255.9	5.709	0	0	0	
6:36	6.54	15.5	268.4	5.592	0	0	0	
6:37	10.01	14.85	224.3	5.592	0	0	0	
6:38	13.49	14.91	220.9	5.592	0	0	0	
6:38	16.96	14.67	207.1	5.592	0	0	0	
6:39	20.42	15.04	216.3	5.592	0	0	0	
6:40	23.89	14.95	216.5	5.592	0	0	0	
6:40	0	0	0	0	0	0	0	End Tail Slurry
6:40	0	0	0	0	0	0	0	Drop Top Plug
6:40	0	0	0	0	0	0	0	Start Displacement
6:40	0	0	0	0	0	0	0	Reset Volume
6:40	0	13.58	-.2732	389E-5	0	0	0	[CumVol]=25.04 bbl
6:40	0	0	0	0	0	0	0	PAUSE ACQUISITION
6:45	0	0	0	0	0	0	0	RESTART AFTER PAUSE
6:45	1816E-7	8.102	.44	7015E-17	0	0	0	
6:46	.5526	8.219	31.37	2.923	0	0	0	
6:47	3.606	8.339	88.62	5.709	0	0	0	
6:47	7.149	8.332	87.23	5.718	0	0	0	
6:48	10.69	8.325	67.2	5.711	0	0	0	
6:49	14.25	8.359	58.51	5.721	0	0	0	

ORIGINAL

Well		Field			Service Date		Customer		Job Number	
ELMO LODGE #2-3		HUGOTON			8/12/97		MOBIL OIL CORP V39050079		20013883	
Time	CumVol	Density	Pressure U1	Pump					Message	
24 hr clock	bbl	ppg	psi	bpm						
6:49	17.79	8.364	61.5	5.711	0	0	0			
6:50	21.33	8.342	67.37	5.71	0	0	0			
6:50	24.87	8.32	66.66	5.711	0	0	0			
6:51	28.43	8.285	71.53	5.709	0	0	0	ORIGINAL		
6:52	31.97	8.243	86.92	5.708	0	0	0			
6:52	35.51	8.248	115.4	5.71	0	0	0			
6:53	39.05	8.253	151.8	5.718	0	0	0			
6:53	42.61	8.273	192.2	5.709	0	0	0			
6:54	46.11	8.271	242.9	5.589	0	0	0			
6:55	49.58	8.157	317.3	5.59	0	0	0			
6:55	53.04	8.198	378.9	5.592	0	0	0			
6:56	56.52	8.094	446.5	5.591	0	0	0			
6:57	59.99	8.109	502.6	5.589	0	0	0			
6:57	63.28	7.9	461.3	3.515	0	0	0			
6:58	64.59	7.542	480.2	1.981	0	0	0			
6:58	65.82	6.891	498.1	1.98	0	0	0			
6:59	67.05	6.674	515.8	1.976	0	0	0			
7:00	68.28	6.573	535	1.969	0	0	0			
7:00	69.5	6.403	550.2	1.978	0	0	0			
7:01	70.73	6.148	575.5	1.977	0	0	0			
7:01	0	0	0	0	0	0	0	Bump Top Plug		
7:02	71.12	.1001	1223	1059E-6	0	0	0			
7:02	71.12	8752E-5	809.9	5955E-11	0	0	0			
7:03	71.12	8048E-5	-5.657	3347E-15	0	0	0			
7:03	71.12	7195E-5	-6.159	1882E-19	0	0	0			
7:04	0	0	0	0	0	0	0	End Job		

**Post Job Summary**

Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
5.6	0	0	5.6	135	0	0	0
Treating Pressure Summary, psi					Breakdown Fluid		
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
1200	1200	550	1200	0		0 bbl	0 lb/gal
Avg. N2 Percent		Designed Slurry Volume		Displacement		<input type="checkbox"/> Cement Circulated to Surface? Volume <input type="checkbox"/> Washed Thru Perfs To 0 ft	
0 %		0 bbl		70.9 bbl			
Customer or Authorized Representative				Dowell Supervisor			
MARVIN HARVEY				DUTTON JEFFREY			
				<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed	

Schlumberger  
Dowell

# Service Order ORIGINAL

21-Aug-97

<b>Customer</b> MOBIL OIL CORP V390500757A		<b>Person Taking Call</b> FRANCISCO DENNIS		<b>Dowell Location</b> Ulysses, KS		<b>Order Date</b> 8/12/97		<b>Job Number</b> 20013883	
<b>Well Name and Number</b> ELMO LODGE 2-3			<b>Legal Location</b> SEC 4-34S-36W		<b>Field</b> HUGOTON		<b>County</b> STEVENS		<b>State/Province</b> KS
<b>Rig Name</b> MURFIN #22		<b>Well Age</b> New	<b>Sales Engineer</b> FRANCISCO DENNIS			<b>Job Type</b> Cem Prod Casing			
<b>Time Well Ready:</b> 8/21/97 3:30 AM		<b>Deviation</b> 0 °	<b>Bit Size</b> 7.88 in	<b>Well MD</b> 2,961 ft	<b>Well TVD</b> 2,961 ft		<b>BHP</b> 0 psi	<b>BHST</b> 0 °F	<b>BHCT</b> 0 °F
<b>Treat Down</b> Casing	<b>Packer Type</b>	<b>Packer Depth</b> 0 ft	<b>Wellhead Connection</b> Single cement head		<b>HHP on Location</b> 0	<b>Max Allowed Pressure</b> 2500		<b>Max Allowed Ann Pressure</b> 2500	
<b>Casing</b>					<b>Services Instructions:</b> SAFELY CEMENT 51/2 PRODUCTION CASING AS PER CUSTOMERS ORDERS.  I.D. MTHARVEY LOC 63122 FIELD EST. 7536.62				
<b>Depth, ft</b>	<b>Size, in</b>	<b>Weight, lb/ft</b>	<b>Grade</b>	<b>Thread</b>					
2904	5.5	14	K55	8RD					
0	0	0							
<b>Tubing</b>					<b>Extra Equipment:</b>				
<b>Depth,</b>	<b>Size, in</b>	<b>Weight, lb/ft</b>	<b>Grade</b>	<b>Thread</b>					
0	0	0							
0	0	0							
<b>Perforated Intervals</b>									
<b>Top, ft</b>	<b>Bottom, ft</b>	<b>spf</b>	<b>No. of Shots</b>	<b>Total Interval</b>					
0	0	0	0	0 ft					
0	0	0	0	Diameter					
0	0	0	0	0 in					

Contact	Voice	Mobile	FAX	Notes
Marvin Harvey	316-624-6664			
Marvin Harvey	316-544-5562	316-544-9060		

**Notes:**

**Directions:**  
 ULYSSES HUGOTON EAST TO HOOKER / MOSCOW RD & HWY 51 3 SOUTH 1 WEST 3/4 SOUTH WEST INTO LOC

**Other Notes:**

**Comments:**

ORIGINAL

Material	Description	Quantity Needed
56702054	Plug, Cementing 5 1/2 In Top Plastic	0 EA
B028	Expanding Cement Additive B28	0 LB
D029	Cellophane Flakes D29	0 LB
D046	Antifoam Agent, All Purpose D46	0 LB
D060	FLAC (tm) Fluid Loss Additive D60	0 LB
D079	Extender, Chemical D79	0 LB
D903	Cement, Class C D903	0 LB
S001	Calcium Chloride 77% S1	0 LB

**Fluid Systems:**

System: TAIL 100 SKS C+2% B28+ 2% S1+ .6% D60+ .2% D46+.25 LB/SK D29

Density: 14.8 lb/gal Thickening Time: 2 HRS  
 Yield: 1.37 ft<sup>3</sup>/sk Viscosity: cp  
 H2O: 642 gal Break Time:  
 Eq. Sack Weight: 94 lb

Dowell Code	Conc/ Amount	Unit	Total Quantity
D029	0.25	lbs/sk	25
D046	0.2	% BWOB	18.8
D060	0.6	% BWOB	56.4
S001	2	% BWOB	188
B028	2	% BWOB	188
D903	100	sacks	100

System: LEAD 225 SKS C+ 3% D79+ .2% D46+.25 LBS/SK D29

Density: 11.5 lb/gal Thickening Time: 8 HRS  
 Yield: 2.75 ft<sup>3</sup>/sk Viscosity: cp  
 H2O: 3757.5 gal Break Time:  
 Eq. Sack Weight: 94 lb

Dowell Code	Conc/ Amount	Unit	Total Quantity
D029	0.25	lbs/sk	56.25
D046	0.2	% BWOB	42.3
D079	3	% BWOB	634.5
D903	225	sacks	225

Schlumberger  
Dowell

# Cementing Service Report

ORIGINAL

Customer: MOBIL OIL CORP. V390500757A  
Job Number: 20013879

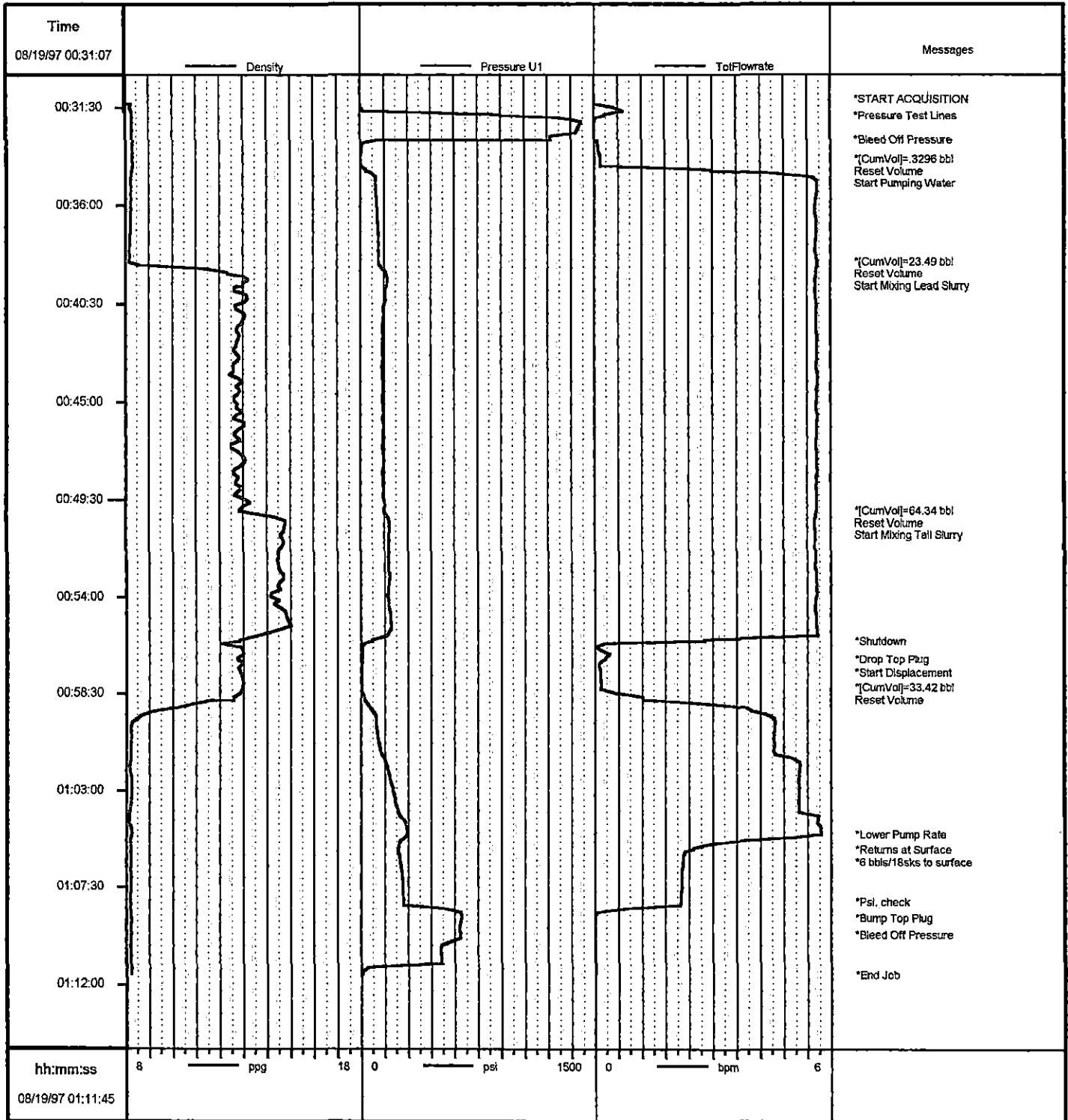
Well ELMO LODGE UNIT #2 3		Location (legal) 4, 34, 36		Dowell Location Ulysses, KS		Service Date 8/18/97				
Field HUGOTON		Formation Name/Type Dirty-Sandstone		Deviation 0	Bit Size 12.3 in	Well MD 650 ft	Well TVD 650 ft			
County Stevens		State/Province KS		BHP 0 psi	BHST 0 °F	BHCT 0 °F	Poro Press. Gradient 0 psi/ft			
Rig Name MURFIN 22	Drilled For Gas	Service Via Land		Casing/Liner						
Water Depth	Well Class 101	Well Type Development		Depth, ft 639	Size, in 8.875	Weight, lb/ft 14	Grade 0			
Drilling Fluid Type Bentonite	Max. Density 9.3 lb/gal	Plastic Viscosity 0 cp		Tubing/Drill Pipe						
Service Line Cementing	Job Type Cem Surface Casing		Depth, ft 0	Size, in 0	Weight, lb/ft 0	Grade 0	Thread 0			
Max. Allowed Tubing Pressure 0 psi	Max. Allowed Ann. Pressure 0 psi	Wellhead Connection Single cement head		Perforations/Open Hole						
Service Instructions cement and equipment to safely cement 8 5/8 surface casing as per customer's request Location #62122 I.D. MTHARVEY field est. \$4739.23 with tax				Top, ft 0	Bottom, ft 0	spf 0	No. of Shots 0			
				Total Interval 0 ft	Diameter 0 in	Treat Down Casing	Displacement 38.1 bbl	Packer Type	Packer Depth 0 ft	
				Tubing Vol. 0 bbl	Casing Vol. 40.7 bbl	Annular Vol. 0 bbl	Open Hole Vol. 0 bbl	Casing Tools	Squeeze Job	
				Casing/Tubing Secured <input type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Shoe Type: Guide	Shoe Depth: 639 ft	Squeeze Type	
				Lift Pressure: 237 psi	Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>	Stage Tool Type	Stage Tool Depth: 0 ft	Tool Type: 0 ft	
No. Centralizers: 4	Top Plugs: 1	Bottom Plugs: 0	Cement Head Type: Single	Collar Type: Other	Collar Depth: 598 ft	Tail Pipe Size: 0 in	Tail Pipe Depth: 0 ft			
Job Scheduled For: 8/18/97 23:00	Arrived on Location:	Leave Location: 8/18/97 22:00	Squeeze Total Vol: 0 bbl							
Time	Density	Pressure Ur	Totflowrate	Message						
24 hr Clock	ppg	psi	bpm							
0:31	0	0	0	START ACQUISITION						
0:31	-6.25	-3767	0							
0:31	0	0	0	Pressure Test Lines						
0:31	8.296	18.74	.7315							
0:32	8.306	1417	.0038							
0:32	0	0	0	Bleed Off Pressure						
0:32	8.304	1381	1376E-9							
0:33	8.304	8.57	.0593							
0:33	8.305	-2.458	.1402							
0:33	0	0	0	[CumVol]=.3296 bbl						
0:33	0	0	0	Reset Volume						
0:33	0	0	0	Start Pumping Water						
0:34	8.301	-2109	.1384							
0:34	8.236	94.96	5.519							
0:35	8.239	96.24	5.646							
0:35	8.242	100.7	5.611							
0:36	8.236	105.4	5.586							
0:36	8.224	108.7	5.626							
0:37	8.219	110.7	5.625							
0:37	8.199	114.4	5.608							
0:38	8.188	114.6	5.616							



Well		Field		Service Date		Customer		Job Number	
ELMO LODGE UNIT #2 #3		HUGOTON		8/18/97		MOBIL OIL CORP V39050075		20013879	
Time	Density	Pressure U/I	TotFlowrate					Message	
24 hr clock	ppg	psi	bpm						
0:38	0	0	0	0	0	0	0	[CumVol]=23.49 bbl	
0:38	0	0	0	0	0	0	0	Reset Volume	
0:38	0	0	0	0	0	0	0	Start Mixing Lead Slurry	
0:38	8.545	115.9	5.657	0	0	0	0		
0:39	13.01	166.1	5.614	0	0	0	0		
0:39	12.63	159.1	5.611	0	0	0	0	ORIGINAL	
0:40	13.2	160.8	5.62	0	0	0	0		
0:40	12.72	142.8	5.631	0	0	0	0		
0:41	13	144	5.62	0	0	0	0		
0:41	12.71	137.6	5.617	0	0	0	0		
0:42	12.73	140.4	5.649	0	0	0	0		
0:42	12.69	137.9	5.645	0	0	0	0		
0:43	12.58	138.4	5.629	0	0	0	0		
0:43	12.43	136.1	5.664	0	0	0	0		
0:44	12.72	141.1	5.654	0	0	0	0		
0:44	12.61	139	5.643	0	0	0	0		
0:45	12.72	141.5	5.62	0	0	0	0		
0:45	12.59	138.7	5.655	0	0	0	0		
0:46	12.79	143.4	5.644	0	0	0	0		
0:46	12.9	144.1	5.623	0	0	0	0		
0:47	12.77	141.4	5.645	0	0	0	0		
0:47	13.07	149.1	5.648	0	0	0	0		
0:48	12.59	138.8	5.651	0	0	0	0		
0:48	12.67	140.7	5.636	0	0	0	0		
0:49	12.63	142.5	5.645	0	0	0	0		
0:49	13.01	153	5.634	0	0	0	0		
0:50	0	0	0	0	0	0	0	[CumVol]=64.34 bbl	
0:50	0	0	0	0	0	0	0	Reset Volume	
0:50	0	0	0	0	0	0	0	Start Mixing Tail Slurry	
0:50	14.36	168.3	5.593	0	0	0	0		
0:50	14.74	182.8	5.584	0	0	0	0		
0:51	14.68	178.3	5.612	0	0	0	0		
0:51	14.54	177.6	5.595	0	0	0	0		
0:52	14.43	173.7	5.606	0	0	0	0		
0:52	14.56	174.1	5.613	0	0	0	0		
0:53	14.56	179.3	5.633	0	0	0	0		
0:53	14.2	176.4	5.638	0	0	0	0		
0:54	14.3	173.7	5.611	0	0	0	0		
0:54	14.83	187.6	5.618	0	0	0	0		
0:55	15.02	194.3	5.621	0	0	0	0		
0:55	13.52	164.3	5.652	0	0	0	0		
0:56	0	0	0	0	0	0	0	Shutdown	
0:56	12.89	6.982	.0168	0	0	0	0		
0:56	0	0	0	0	0	0	0	Drop Top Plug	
0:56	0	0	0	0	0	0	0	Start Displacement	
0:56	0	0	0	0	0	0	0	Reset Volume	
0:56	0	0	0	0	0	0	0	[CumVol]=33.42 bbl	
0:56	12.75	6.212	.2673	0	0	0	0		
0:57	12.76	4.583	.1104	0	0	0	0		
0:57	12.96	4.583	.1314	0	0	0	0		
0:58	12.94	4.583	.1358	0	0	0	0		
0:58	11.61	21.27	1.524	0	0	0	0		
0:59	9.185	69.83	3.981	0	0	0	0		

Well			Field			Service Date		Customer		Job Number	
ELMO LODGE UNIT #2 #3			HUGOTON			8/18/97		MOBIL OIL CORP V39050075		20013879	
Time	Density	Pressure U1	Total Flowrate					Message			
24 hr clock	ppg	psi	bpm								
0:59	8.26	96.15	4.569	0	0	0	0				
1:00	8.221	100.4	4.547	0	0	0	0				
1:00	8.209	113.7	4.567	0	0	0	0				
1:01	8.212	129.9	4.577	0	0	0	0	ORIGINAL			
1:01	8.135	163	5.215	0	0	0	0				
1:02	8.229	181.8	5.187	0	0	0	0				
1:02	8.246	199.9	5.185	0	0	0	0				
1:03	8.233	215.6	5.174	0	0	0	0				
1:03	8.161	230.5	5.182	0	0	0	0				
1:04	8.15	266.8	5.656	0	0	0	0				
1:04	8.251	292.4	5.733	0	0	0	0				
1:05	0	0	0	0	0	0	0	Lower Pump Rate			
1:05	0	0	0	0	0	0	0	Returns at Surface			
1:05	0	0	0	0	0	0	0	6 bbls/18sks to surface			
1:05	8.157	249.5	3.697	0	0	0	0				
1:05	8.177	233.1	2.294	0	0	0	0				
1:06	8.203	249.5	2.24	0	0	0	0				
1:06	8.211	260.3	2.216	0	0	0	0				
1:07	8.199	264	2.21	0	0	0	0				
1:07	8.19	268.1	2.206	0	0	0	0				
1:08	0	0	0	0	0	0	0	Psi. check			
1:08	8.199	272	2.182	0	0	0	0				
1:08	8.233	645.3	3574E-6	0	0	0	0				
1:08	0	0	0	0	0	0	0	Bump Top Plug			
1:09	8.214	633.3	128E-8	0	0	0	0				
1:09	0	0	0	0	0	0	0	Bleed Off Pressure			
1:09	8.224	636.2	1432E-6	0	0	0	0				
1:10	8.234	509	73E-6	0	0	0	0				
1:10	8.229	514.2	3643E-9	0	0	0	0				
1:11	8.213	7.469	1304E-12	0	0	0	0				
1:11	0	0	0	0	0	0	0	End Job			
Post Job Summary											
Average Pump Rates, bpm						Volume of Fluid Injected, bbl					
Slurry	N2		Mud	Maximum Rate		Total Slurry	Mud	Spacer	N2		
5.5	0		0	5.75		100	0	24	0		
Treating Pressure Summary, psi						Breakdown Fluid					
Maximum	Final	Average	Bump Plug to	Breakdown		Type	Volume		Density		
0	0	0	0	0			38.2 bbl		0 lb/gal		
Avg. N2 Percent						Displacement					
0 %		Designed Slurry Volume		0 bbl		<input checked="" type="checkbox"/> Comment Circulated to Surface? Volume <input type="checkbox"/> Washed Thru Perfs To 0 ft					
Customer or Authorized Representative						Dawoll Supervisor					
Marvin Harvey						Charley King					
						<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed			

Well	elmo lodge 2-3	Client	mobil	ORIGINAL
Field	Hugoton	SIR No.	20013879	
Country	USA	Job Date	8/19/97 12:31:07 AM	



Job: mobil

08/19/1997 01:22

\* Mark of Schlumberger