

ORIGINAL

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: Norseman Drilling Inc.

License: 3779

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 PBTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

8-19-97 8-22-97 9-25-97
Spud Date Date Reached TD Completion Date

API NO. 15- 189-221970000

County Stevens

SE SE SE Sec. 36 Twp. 33 Rge. 37 X W

660 Feet from S (circle one) Line of Section

660 Feet from E (circle one) Line of Section

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

Lease Name Carpenter #2 Unit Well # 4

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3085 KB 3094

Total Depth 2963 PBTD 2915

Amount of Surface Pipe Set and Cemented at 685 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. 1, 4-30-98 U.C.
(Data must be collected from the Reserve Pit) 12-11-97

Chloride content 38,000 ppm Fluid volume 200 bbls

Dewatering method used Evaporation

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 97.

Notary Public Lynn K. Hunt

Date Commission Expires February 20, 2001

7-92.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 Carpenter #2 Unit Well # 4

Sec. 36 Twp. 33 Rge. 37W 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 (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#	685	Class C Class C	225 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2953	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				

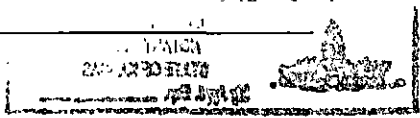
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 SPF	2630-45	Acid: 1,000 gals 7.5% HCL	
	2760-70	Fracd: 15,288 gals WF130 in 70q foam	
		121,120 lbs 16/30 sand	

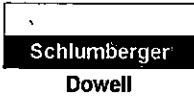
TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. 10-29-97		Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
		186				

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

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

Production Interval: _____ 2630 _____ 2770 _____





Cementing Service Report ORIGINAL

Customer MOBIL OIL CORP V390500757A	Job Number 20013930
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Well CARPENTER #2-4		Location (legal) SEC 36-33S-37W		Dowell Location Ulysses, KS		Service Date 8/22/97					
Field HUGOTON		Formation Name/Type Dolomite		Deviation 0 °		Bit Size 7.88 in	Well MD 2,963 ft	Well TVD 2,963 ft			
County STEVENS		State/Province KS		BHP 0 psi	BHST 0 °F	BHCT 0 °F	Poro Press. Gradient 0 psi/ft				
Rig Name NORSEMAN 2	Drilled For Gas	Service Via Land		Casing/Liner							
Water Depth	Well Class 101	Well Type Development		Depth, ft 2963	Size, in 5.5	Weight, lb/ft 14	Grade K55	Thread 8RD			
Drilling Fluid Type Bentonite	Max. Density 9.2 lb/gal	Plastic Viscosity 0 cp		Tubing/Drill Pipe							
Service Line Cementing	Job Type Cem Prod Casing		Depth, ft 0	Size, in 0	Weight, lb/ft 0	Grade	Thread				
Max. Allowed Tubing Pressure 2500 psi	Max. Allowed Ann. Pressure 2500 psi	Wellhead Connection Single cement head		Perforations/Open Hole							
Service Instructions SAFELY CEMENT 5 1/2 PRODUCTION CASING AS CUSTOMER ORDERS I.D. JLLASITE LOC. 62522 FIELD EXT. \$7047.42				Top, ft 0	Bottom, ft 0	spf 0	No. of Shots 0	Total Interval 0 ft			
				Troat Down Casing	Displacement 70.9 bbl		Packer Type	Packer Depth 0 ft			
				Tubing Vol. 0 bbl	Casing Vol. 72 bbl	Annular Vol. 0 bbl		Open Hole Vol 0 bbl			
				Casing/Tubing Secured <input type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools		Squeeze Job		
				Lift Pressure: 607 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: 2963 ft	Tool Type:						
Cement Head Type: Single				Stage Tool Type	Tool Depth: 0 ft						
Job Scheduled For: 8/22/97 8:00	Arrived on Location: 8/22/97 8:00		Leave Location: 8/22/97		Stage Tool Depth: 0 ft	Tail Pipe Size: 0 in		Collar Type: Auto-Fill			
Collar Depth: 2906 ft	Tail Pipe Depth: 0 ft		Sqz Total Vol: 0 bbl								
Time	CumVol	Density	Pressure U1	Pump	Message						
24 hr clock	bbl	ppg	psi	bpm							
11:23	0	0	0	0	0	0	0	START ACQUISITION			
11:23	0	8.41	4.565	0	0	0	0				
11:23	.202	8.406	3326	1817E-5	0	0	0				
11:24	0	0	0	0	0	0	0	Pressure Test Lines			
11:24	.203	8.376	311.9	9466E-11	0	0	0				
11:25	0	0	0	0	0	0	0	Start Job			
11:25	1.381	8.366	178.7	5.4	0	0	0				
11:26	5.694	8.46	186.7	5.589	0	0	0				
11:26	10.01	8.46	203.8	5.598	0	0	0				
11:27	14.32	8.477	213.2	5.603	0	0	0				
11:28	18.64	8.477	223	5.594	0	0	0				
11:29	22.95	8.458	234.3	5.583	0	0	0				
11:30	27.26	8.455	248.2	5.592	0	0	0				
11:30	31.58	8.392	340.5	5.597	0	0	0				
11:31	35.89	8.607	285.7	5.595	0	0	0				
11:31	0	0	0	0	0	0	0	[CumVol]=35.98 bbl			
11:31	0	0	0	0	0	0	0	Reset Volume			
11:31	0	0	0	0	0	0	0	Start Mixing Lead Slurry			
11:32	4.124	11.66	320.6	5.585	0	0	0				
11:33	8.436	11.63	303.9	5.602	0	0	0				
11:33	12.76	11.44	288	5.591	0	0	0				

Well		Field			Service Date		Customer	Job Number
CARPENTER ##2-4		HUGOTON			8/22/97		MOBIL OIL CORP V39050075	20013930
Time	CumVol	Density	Pressure U1	Pump				Message
24 hr clock	bbl	ppg	psl	bpm				
11:34	17.07	11.3	266.2	5.588	0	0	0	
11:35	21.38	11.44	253.9	5.594	0	0	0	
11:36	25.7	11.33	237.3	5.616	0	0	0	
11:36	30.1	11.42	229.7	5.711	0	0	0	
11:37	34.51	11.36	212.9	5.718	0	0	0	
11:38	38.92	11.32	193.6	5.718	0	0	0	
11:39	43.33	11.44	158.9	5.707	0	0	0	
11:40	47.74	11.43	128.6	5.719	0	0	0	
11:40	52.15	11.66	132.1	5.715	0	0	0	
11:41	56.56	11.72	133.8	5.711	0	0	0	
11:42	60.96	11.36	116.2	5.715	0	0	0	
11:43	65.38	11.4	120.1	5.719	0	0	0	
11:43	69.79	11.33	117.7	5.709	0	0	0	
11:44	74.19	11.57	121.2	5.711	0	0	0	
11:45	78.6	11.57	126.1	5.714	0	0	0	
11:46	83.01	11.57	118.9	5.711	0	0	0	
11:46	87.42	11.57	115.7	5.718	0	0	0	
11:47	91.82	11.55	118	5.711	0	0	0	
11:48	96.24	11.46	119.5	5.707	0	0	0	
11:49	100.6	11.45	112.9	5.71	0	0	0	
11:50	105.1	11.43	106.5	5.716	0	0	0	
11:50	109.5	11.56	112.2	5.717	0	0	0	
11:51	113.9	11.79	127.3	5.72	0	0	0	
11:52	0	0	0	0	0	0	0	End Lead Slurry
11:52	0	0	0	0	0	0	0	[CumVol]=117.1 bbl
11:52	0	0	0	0	0	0	0	Reset Volume
11:52	0	0	0	0	0	0	0	Start Mixing Tail Slurry
11:52	1.052	14.21	200.7	5.709	0	0	0	
11:53	5.467	15.06	243.3	5.706	0	0	0	
11:53	9.865	14.66	223.5	5.614	0	0	0	
11:54	14.18	14.9	224.1	5.593	0	0	0	
11:55	18.5	14.81	205.6	5.589	0	0	0	
11:56	22.81	14.95	199.5	5.585	0	0	0	
11:56	0	0	0	0	0	0	0	End Tail Slurry
11:56	0	0	0	0	0	0	0	PAUSE ACQUISITION
12:00	0	0	0	0	0	0	0	RESTART AFTER PAUSE
12:00	24.68	8.152	-11.14	7164E-10	0	0	0	
12:00	0	0	0	0	0	0	0	Reset Volume
12:00	0	0	0	0	0	0	0	[CumVol]=24.68 bbl
12:00	0	0	0	0	0	0	0	Drop Top Plug
12:00	0	0	0	0	0	0	0	Start Displacement
12:01	7789E-5	8.141	14.5	1.683	0	0	0	
12:01	3.878	8.318	47.31	5.711	0	0	0	
12:02	8.27	8.348	44.15	5.719	0	0	0	
12:03	12.66	8.264	47.34	5.713	0	0	0	
12:04	17.12	8.301	49.42	5.697	0	0	0	
12:05	21.52	8.274	57.1	5.71	0	0	0	
12:05	25.93	8.199	59.87	5.714	0	0	0	
12:06	30.43	8.193	61.14	5.708	0	0	0	
12:07	34.84	8.182	112	5.703	0	0	0	
12:08	39.25	8.147	162.6	5.712	0	0	0	
12:08	43.59	8.121	211.1	5.586	0	0	0	
12:09	47.91	8.032	304.2	5.591	0	0	0	

ORIGINAL

Well		Field			Service Date		Customer		Job Number	
CARPENTER ##2-4		HUGOTON			8/22/97		MOBIL OIL CORP V39050075		20013930	
Time	Cum/Vol	Density	Pressure Uf	Pump				Message		
24 hr Clock	bbbl	ppg	psi	bpm						
12:10	52.22	8.049	389.4	5.589	0	0	0			
12:11	56.53	8.09	479.9	5.592	0	0	0			
12:12	60.85	8.116	556.3	5.582	0	0	0			
12:12	0	0	0	0	0	0	0	Lower Pump Rate		
12:12	64.16	8.032	503.6	1.915	0	0	0			
12:13	65.69	7.875	533.7	1.985	0	0	0			
12:14	67.23	7.599	554.6	1.985	0	0	0	ORIGINAL		
12:15	68.76	7.29	576.9	1.987	0	0	0			
12:15	70.29	7.078	599.6	1.985	0	0	0			
12:16	71.07	.1994	1229	215E-5	0	0	0			
12:17	71.07	.2298	307	1118E-11	0	0	0			
12:18	71.07	.1765	-5743E-5	5815E-17	0	0	0			
12:18	71.07	.166	-2.194	3024E-22	0	0	0			
12:19	71.07	.1149	-1697E-5	1572E-27	0	0	0			
12:20	71.07	.0906	-2.153	8175E-33	0	0	0			
12:21	71.13	8958E-5	38.31	.3064	0	0	0			
12:22	71.35	7577E-5	815.2	.2746	0	0	0			
12:22	71.43	6094E-5	1080	7636E-8	0	0	0			
12:23	71.43	.0602	728.6	3971E-13	0	0	0			
12:24	71.43	5342E-5	11	2065E-18	0	0	0			
12:25	71.43	5342E-5	-1.058	1074E-23	0	0	0			
12:25	71.43	5342E-5	-5.125	5583E-29	0	0	0			
12:26	71.43	5503E-5	-2.685	2903E-34	0	0	0			
12:27	71.43	5342E-5	-6.421	151E-38	0	0	0			
12:28	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	5.5	1140	0	0	0		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density		
1200	1200	500	607	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 %	0 bbl		70.2 bbl		0 ft				
Customer or Authorized Representative				Dowell Supervisor			<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed		
JEFF LASITER				DUTTON JEFFREY					

Cementing Service Report

ORIGINAL

Customer MOBIL OIL CORP V390500757A	Job Number 20013928
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Well CARPENTER #2 UNIT 4		Location (logal) 36, 33S, 37W		Dowell Location Ulysses, KS		Service Date 8/12/97					
Field HUGOTON		Formation Name/Type Dirty-Sandstone		Deviation 0 °		Bit Size 12.3 in	Well MD 690 ft	Well TVD 690 ft			
County Stevens		State/Province KS		BHP 0 psi	BHST 0 °F	BHCT 0 °F	Pore Press. Gradient 0 psi/ft				
Rig Name NORSEMAN 2	Drilled For Gas	Service Via Land		Casing/Liner							
Water Depth	Well Class 101	Well Type Development		Depth, ft 685	Size, in 8.63	Weight, lb/ft 24	Grade	Thread			
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	Weight, lb/ft	Grade	Thread				
Max. Allowed Tubing Pressure 377 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. Acct code: 4903 Location #62522 I.D. RDWORLEY field est. \$4977.26				Top, ft 0	Bottom, ft 0	spf 0	No. of Shots 0	Total Interval 0 ft			
				Treat Down Casing	Displacement 41.1 bbl	Packer Type		Packer Depth 0 ft			
				Tubing Vol. 0 bbl	Casing Vol. 43.8 bbl	Annular Vol. 0 bbl		OpenHole Vol 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: 377 psi	Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>		Shoe Type: Guide	Squeeze Type		
No. Centralizers: 4	Top Plugs: 1	Bottom Plugs: 0		Shoe Depth: 685 ft	Tool Type:						
Cement Head Type: Single			Stage Tool Type	Tool Depth: 0 ft		Tool Depth: 0 ft					
Job Scheduled For: 8/20/97 0:00	Arrived on Location: 8/20/97 0:00	Leave Location: 8/20/97		Stage Tool Depth: 0 ft	Tail Pipe Size: 0 in		Tail Pipe Depth: 0 ft				
Collar Type: Other	Collar Depth: 642 ft	Sqz Total Vol: 0 bbl									
Time	CumVol	Density	Pressure U1	totcumvol	TotFlowrate	Message					
24 hr clock	bbl	ppg	psi	bbl	bpm						
3:22	0	0	0	0	0	START ACQUISITION					
3:22	0	-6.25	-3773	0	0						
3:22	0	0	0	0	0	Pressure Test Lines					
3:23	.1508	8.31	16.08	.1508	.7298						
3:23	.273	8.318	1322	.273	6281E-6						
3:24	.2751	8.313	1945	.2751	2515E-8						
3:24	0	0	0	0	0	Bleed Off Pressure					
3:24	.2751	8.31	217.4	.2751	9004E-12						
3:24	0	0	0	0	0	Start Pumping Water					
3:25	.2767	8.308	7308E-5	.2767	7835E-8						
3:25	.2889	8.31	12.27	.2889	4454E-6						
3:26	1.321	8.199	101.3	1.321	4.706						
3:26	4.136	8.126	146.9	4.136	5.737						
3:27	7	8.154	151	7	5.702						
3:27	9.844	8.22	157.8	9.844	5.65						
3:28	12.67	8.242	162.7	12.67	5.648						
3:28	15.5	8.242	165.9	15.5	5.64						
3:29	18.33	8.227	169.6	18.33	5.633						
3:29	21.14	8.209	174.6	21.14	5.627						
3:30	0	0	0	0	0	Start Mixing Lead Slurry					
3:30	23.98	10.35	170.3	23.98	5.698						

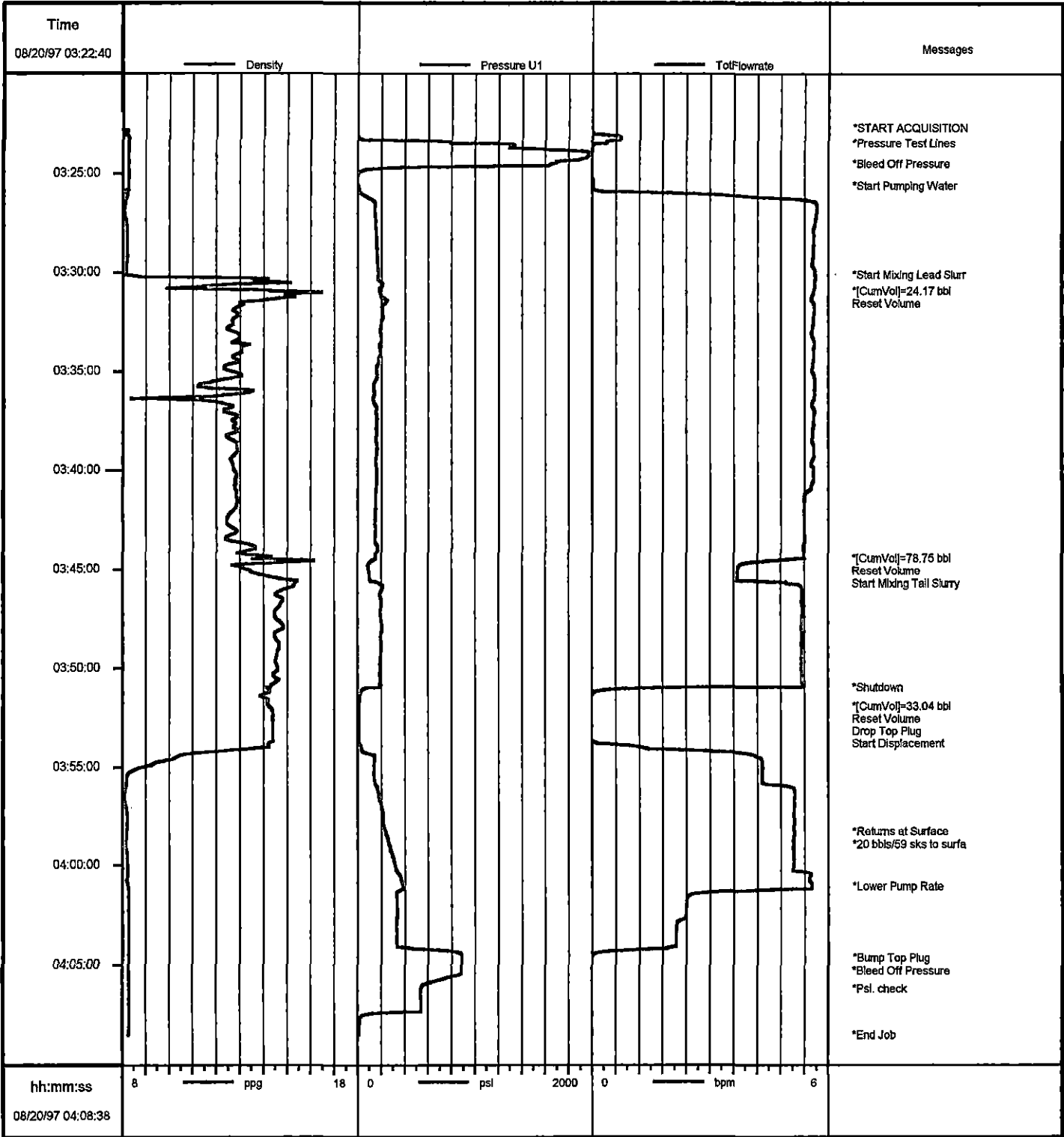
Well		Field		Service Date		Customer		Job Number	
CARPENTER #2 UNIT #4		HUGOTON		8/12/97		MOBIL OIL CORP V39050075		20013928	
Time	CumVol	Density	Pressure U1	totcumvol	TotFlowrate			Message	
24 hr clock	bbbl	ppg	psi	bbbl	bpm				
3:30	0	0	0	0	0	0	0	[CumVol]=24.17 bbl	
3:30	0	0	0	0	0	0	0	Reset Volume	
3:30	2.46	11.94	197.7	26.82	5.666	0	0		
3:31	5.283	14.85	211.4	29.64	5.584	0	0		
3:31	8.098	12.94	212.2	32.46	5.653	0	0	ORIGINAL	
3:32	11.04	12.82	213.3	35.4	5.643	0	0		
3:32	13.86	12.46	199.5	38.22	5.623	0	0		
3:33	16.66	13.01	205	41.02	5.608	0	0		
3:33	19.5	13.08	189	43.86	5.65	0	0		
3:34	22.32	12.7	186	46.68	5.638	0	0		
3:34	25.14	12.34	162.7	49.5	5.617	0	0		
3:35	27.96	12.96	169.4	52.32	5.646	0	0		
3:35	30.8	11.28	134	55.16	5.672	0	0		
3:36	33.64	14.04	137.8	58	5.659	0	0		
3:36	36.45	12.74	160.9	60.82	5.594	0	0		
3:37	39.39	12.94	168.3	63.75	5.646	0	0		
3:37	42.22	12.72	161.2	66.58	5.629	0	0		
3:38	45.03	12.48	156.5	69.39	5.603	0	0		
3:38	47.85	12.91	167.3	72.21	5.645	0	0		
3:39	50.68	12.73	160.8	75.04	5.643	0	0		
3:39	53.48	12.75	159.5	77.84	5.607	0	0		
3:40	56.31	12.9	165	80.67	5.634	0	0		
3:40	59.13	12.82	160.6	83.49	5.571	0	0		
3:41	61.87	12.88	155.4	86.23	5.403	0	0		
3:41	64.58	12.87	155.2	88.94	5.397	0	0		
3:42	67.29	12.52	150.8	91.65	5.406	0	0		
3:42	70.09	12.61	150.3	94.45	5.395	0	0		
3:43	72.8	12.46	150.8	97.16	5.403	0	0		
3:43	75.5	13.6	167.1	99.86	5.372	0	0		
3:44	78.2	13.49	157.8	102.6	5.401	0	0		
3:44	0	0	0	0	0	0	0	[CumVol]=78.75 bbl	
3:44	0	0	0	0	0	0	0	Reset Volume	
3:44	0	0	0	0	0	0	0	Start Mixing Tail Slurry	
3:44	1.569	12.92	90.73	104.9	3.742	0	0		
3:45	3.435	14.16	104.9	106.7	3.705	0	0		
3:45	5.64	15.28	217.7	108.9	5.313	0	0		
3:46	8.323	14.6	194.7	111.6	5.359	0	0		
3:46	11	14.69	203.7	114.3	5.351	0	0		
3:47	13.79	14.5	200.2	117.1	5.356	0	0		
3:47	16.47	14.89	210.6	119.8	5.341	0	0		
3:48	19.15	14.49	199.2	122.4	5.356	0	0		
3:48	21.83	14.68	202.5	125.1	5.345	0	0		
3:49	24.51	14.58	199.8	127.8	5.342	0	0		
3:49	27.19	14.59	195.3	130.5	5.34	0	0		
3:50	29.87	14.43	192.2	133.2	5.358	0	0		
3:50	32.55	14.34	189.8	135.8	5.367	0	0		
3:50	0	0	0	0	0	0	0	Shutdown	
3:51	0	0	0	0	0	0	0	[CumVol]=33.04 bbl	
3:51	0	0	0	0	0	0	0	Reset Volume	
3:51	1848E-7	13.87	21.18	136.3	5527E-6	0	0		
3:51	0	0	0	0	0	0	0	Drop Top Plug	
3:51	0	0	0	0	0	0	0	Start Displacement	
3:51	4486E-7	14.24	18.34	136.3	1971E-9	0	0		

Well		Field				Service Date		Customer		Job Number	
CARPENTER #2 UNIT #4		HUGOTON				8/12/97		MOBIL OIL CORP V39050075		20013928	
Time	CumVol	Density	Pressure U1	totcumvol	TotFlowrate	Message					
24 hr clock	bbbl	ppg	psi	bbbl	bpm						
3:52	5525E-7	14.44	18.34	136.3	3107E-6	0	0				
3:52	7601E-7	14.44	18.34	136.3	1636E-9	0	0				
3:53	7601E-7	14.44	18.34	136.3	5857E-13	0	0				
3:53	.0608	14.28	27.67	136.4	.7528	0	0				
3:54	1.329	10.51	148.1	137.7	4.128	0	0	ORIGINAL			
3:54	3.48	9.259	142	139.8	4.339	0	0				
3:55	5.657	8.256	143.5	142	4.343	0	0				
3:55	7.831	8.207	154.3	144.2	4.431	0	0				
3:56	10.38	8.152	183.3	146.7	5.161	0	0				
3:56	12.96	8.174	203.2	149.3	5.153	0	0				
3:57	15.54	8.24	219.5	151.9	5.143	0	0				
3:57	18.12	8.235	223.3	154.4	5.148	0	0				
3:58	0	0	0	0	0	0	0	Returns at Surface			
3:58	0	0	0	0	0	0	0	20 bbls/59 sks to surfac			
3:58	20.7	8.22	245.5	157	5.151	0	0				
3:58	23.37	8.191	271.6	159.7	5.143	0	0				
3:59	25.94	8.239	296.8	162.3	5.14	0	0				
3:59	28.52	8.266	318.6	164.8	5.133	0	0				
4:00	31.21	8.266	350.7	167.5	5.557	0	0				
4:00	33.99	8.256	388	170.3	5.577	0	0				
4:01	0	0	0	0	0	0	0	Lower Pump Rate			
4:01	36.35	8.309	332.8	172.7	2.674	0	0				
4:01	37.57	8.31	338.1	173.9	2.412	0	0				
4:02	38.78	8.313	336.5	175.1	2.405	0	0				
4:02	39.94	8.311	333.3	176.3	2.171	0	0				
4:03	41.06	8.311	334.6	177.4	2.142	0	0				
4:03	42.14	8.31	335.4	178.5	2.148	0	0				
4:04	42.74	8.311	888.3	179.1	3139E-5	0	0				
4:04	0	0	0	0	0	0	0	Bump Top Plug			
4:04	42.74	8.311	889.4	179.1	1124E-8	0	0				
4:05	0	0	0	0	0	0	0	Bleed Off Pressure			
4:05	42.74	8.318	881.3	179.1	4024E-12	0	0				
4:05	42.74	8.318	561	179.1	1441E-15	0	0				
4:06	0	0	0	0	0	0	0	Psi. check			
4:06	42.74	8.318	541	179.1	5158E-19	0	0				
4:06	42.74	8.318	545.5	179.1	1847E-22	0	0				
4:07	42.74	8.318	57.8	179.1	2186E-6	0	0				
4:07	42.74	8.318	18.35	179.1	7398E-10	0	0				
4:08	42.74	8.284	18.34	179.1	227E-5	0	0				
4:08	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	5.7	112	0	24	0
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to Breakdown	Type	Volume	Density	
377	889	200	0		41.1 bbl	0 lb/gal	
Avg. N2 Percent		Designed Slurry Volume		Displacement		<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume 59 sks bbl 20 <input type="checkbox"/> Washed Thru Perfs To 0 ft	
0 %		0 bbl		0 bbl			
Customer or Authorized Representative				Dowell Supervisor		<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed	
Russell Worley				Charley King			

Well	Carpenter 2-4	Client	mobil	ORIGINAL
Field	Hugoton	SIR No.	20013928	
Country	USA	Job Date	8/20/97 3:22:40 AM	



Job: mobil

08/20/1997 04:13

* Mark of Schlumberger