

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 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. _____

7-22-97 7-25-97 9-4-97
Spud Date Date Reached TD Completion Date

API NO. 15- 189-221910000

County Stevens

SE - NW - NW Sec. 34 Twp. 34 Rge. 37 X W

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 Knier #2 Unit Well # 1014

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3123 KB 3133

Total Depth 2989 PBTD 2928

Amount of Surface Pipe Set and Cemented at 704 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 Alt. 1, 4-17-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 8,000 ppm Fluid volume 200 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 11-17-97

Subscribed and sworn to before me this 11th day of November, 19 95.

Notary Public Lynn K. Hunt

Date Commission Expires February 20, 2001

7-81.kcc

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Geologist Report Received

✓ KCC Distribution

KGS SWD/Rep NGPA

Plug Other

(Specify)



SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Knier #2 Unit Well # 4

Sec. 34 Twp. 34 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 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 New 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#	704	Class C Class C	250 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2979	Class C Class C	220 100	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	2656-62	Acid: 1,000 gals 7.5% HCL	
	2732-42	Frac'd: 14,240 gals WF30 in 70q foam	
	2776-86	113,520 lbs 16/30 sand	
	2840-50		

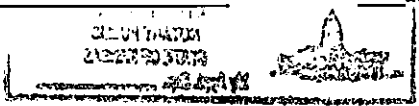
TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 8-25-97 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		109			

Disposition of Gas: METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 2656
 (If vented, submit ACO-18.) Other (Specify) 2850



ORIGINAL Cementing Service Report

Schlumberger
Dowell

Customer: MOBIL OIL CORP V390500757A
Job Number: 20008928

Well: Knier 2-4		Location (legal): Sec 34-34S-37W		Dowell Location: Ulysses, KS		Service Date: 7/22/97			
Field: Hugoton		Formation Name/Type: Surface		Deviation: 0°	Bit Size: 12.3 in	Well MD: 714 ft	Well TVD: 714 ft		
County: Stevens		State/Province: KS		BHP: 0 psi	BHST: 0°F	BHCT: 0°F	Poro Pross. 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: 704	Size, in: 8.63	Weight, lb/ft: 24	Grade: 8rd		
Drilling Fluid Type: Bentonite	Max. Density: 9.8 lb/gal	Plastic Viscosity: 34 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: 2000 psi	Max. Allowed Ann. Pressure: 0 psi	Well Head Connection: Single cement head		Perforations/Open Hole					
Service Instructions: Safely cement surface casing as directed by customer. I.D. MTHARVEY Loc.# 62994				Top, ft: 0	Bottom, ft: 0	spf: 0	No. of Shots: 0	Total Interval: 0 ft	
				Diameter: 0 in	Treat Down Casing: 0 ft	Displacement: 42.1 bbl	Packer Type: 0 ft	Packer Depth: 0 ft	
				Tubing Vol.: 0 bbl	Casing Vol.: 44.8 bbl	Annular Vol.: 0 bbl	Open Hole Vol.: 0 bbl		
				Casing Tools	Squeeze Job				
				Lift Pressure: 289 psi	Shoe Type: Guide	Squeeze Type:			
Pipe Rotated: <input type="checkbox"/>	Pipe Reciprocated: <input type="checkbox"/>	Shoe Depth: 705 ft	Tool Type:						
No. Centralizers: 0	Top Plugs: 1	Bottom Plugs: 0	Stage Tool Type:	Tool Depth: 0 ft					
Cement Head Type: Single	Stage Tool Depth: 0 ft	Tail Pipe Size: 0 in	Collar Type: Other	Tail Pipe Depth: 0 ft					
Job Scheduled For: 7/22/97 15:58	Arrived on Location: 7/22/97 16:00	Leave Location:	Collar Depth: 661.63 ft	Sqz Total Vol: 0 bbl					

Time	Cum Vol	Density	Elapsed Time	Pressure Uf	Pump	Rezero	Message
24 hr clock	bbf	ppg	min	psi	mbl/s	bbf	
16:46	0	-6.25	0	-3865	0	0	START ACQUISITION
16:46	0	0	0	0	0	0	Pressure Test Lines
16:46	.2664	8.191	.5026	1792	.2006	.2664	
16:47	0	0	0	0	0	0	Bleed Off Pressure
16:47	.2671	8.179	1.005	36.6	722E-7	.2671	
16:47	0	0	0	0	0	0	Start Pumping Water
16:47	.2677	8.171	1.508	-138.2	.6213	.2677	
16:48	2.598	8.168	2.013	-102.1	95.23	2.598	
16:48	5.471	8.169	2.516	-95.2	95.18	5.471	
16:49	8.343	8.144	3.019	-88.52	95.2	8.343	
16:49	11.21	8.197	3.522	-83.83	95.17	11.21	
16:50	14.09	8.19	4.025	-80.42	95.34	14.09	
16:50	16.97	8.18	4.53	-77.75	95.13	16.97	
16:51	19.85	8.186	5.033	-72.28	95.19	19.85	
16:51	22.72	8.17	5.535	-64.59	95.18	22.72	
16:52	25.59	8.184	6.038	-57.84	95.3	25.59	
16:52	28.46	8.186	6.541	-53.55	95.18	28.46	
16:53	0	0	0	0	0	0	Start Mixing Lead Slurry
16:53	0	0	0	0	0	0	[CumVol]=31.16 bbl
16:53	0	0	0	0	0	0	Reset Volume
16:53	9577E-5	11.85	7.046	67.6	95.2	31.35	
16:53	2.969	12.15	7.549	68.33	95.13	34.22	

82 1/2
7/22/97 15:58
7/22/97 16:00
7/22/97 16:00

ORIGINAL

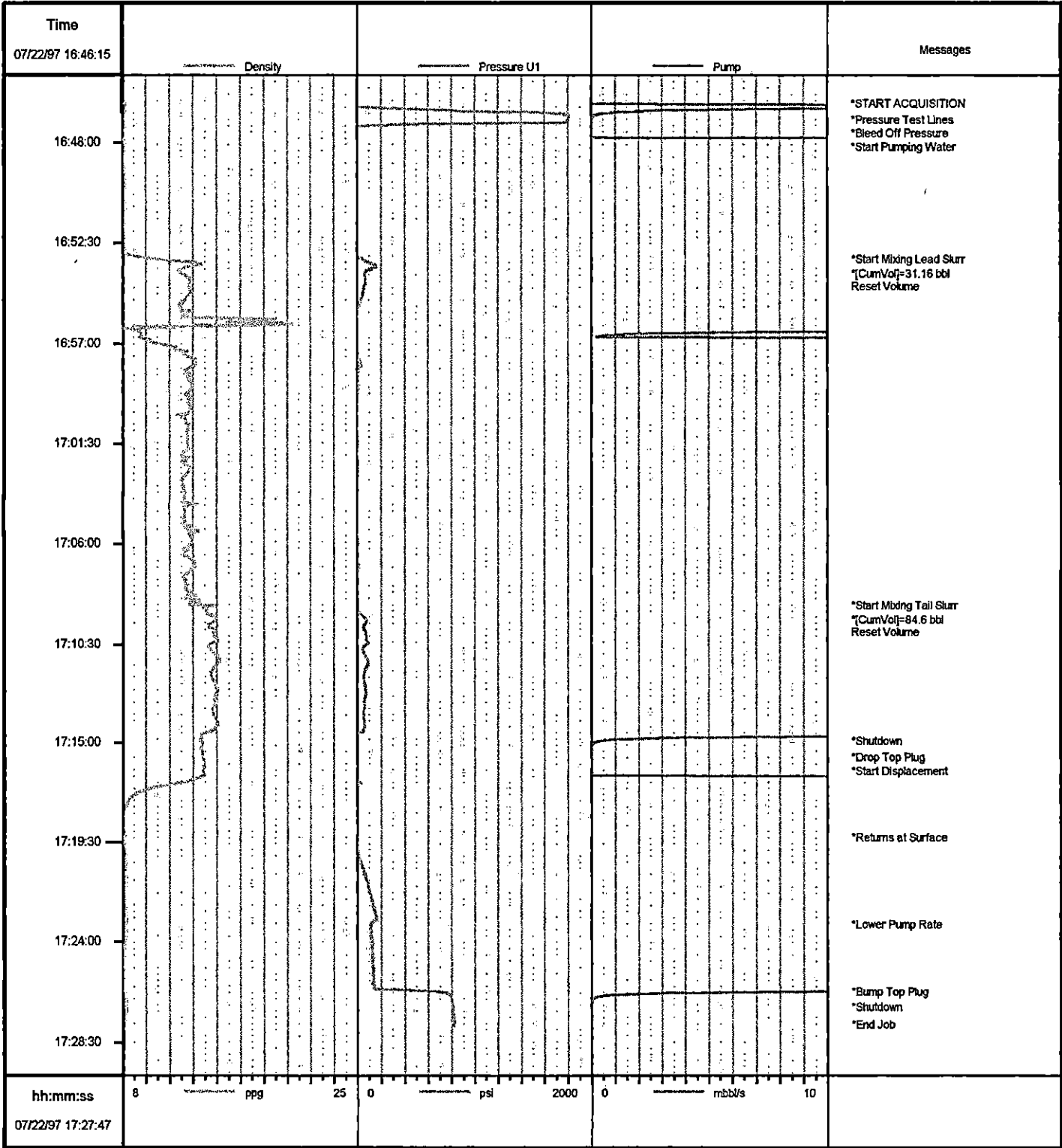
Well		Flow				Service Date	Customer	Job Number
Knier #2-4		Hugoton				7/22/97	MOBIL OIL CORP V39050075	20008928
Time	CumVol	Density	Elapsed Time	Pressure Ut	Pump	Rezero	Message	
24 hr clock	bbl	ppg	min	psi	mbl/s	bbl		
16:54	5.841	12.82	8.052	65.23	95.3	37.09	0	
16:54	8.713	12.75	8.555	42.28	95.31	39.96	0	
16:55	11.59	12.14	9.057	9.053	95.2	42.84	0	
16:55	14.47	13.05	9.562	-8.974	95.35	45.72	0	
16:56	17.25	8.937	10.07	-115.3	56.45	48.5	0	
16:56	17.85	10	10.57	-77.47	78.66	49.1	0	
16:57	20.61	12.57	11.07	-36.39	93.14	51.86	0	
16:57	23.42	13.33	11.57	24.5	93.2	54.67	0	
16:58	26.24	12.88	12.08	4.168	93.15	57.5	0	
16:58	29.06	13.09	12.58	12.11	93.2	60.31	0	
16:59	31.87	12.83	13.08	-8.228	93.05	63.12	0	
16:59	34.68	12.96	13.59	-3847E-5	93.2	65.93	0	
17:00	37.49	12.51	14.09	-14.02	93.22	68.75	0	
17:00	40.32	12.68	14.6	-5.315	93.14	71.57	0	
17:01	43.13	12.69	15.1	3.224	93.2	74.38	0	
17:01	45.94	12.49	15.6	5382E-5	93.2	77.19	0	
17:02	48.75	12.48	16.1	-17.81	93.28	80	0	
17:02	51.56	12.58	16.61	4.714	93.2	82.82	0	
17:03	54.39	12.38	17.11	-15.8	93.21	85.64	0	
17:03	57.2	12.49	17.61	-5.507	93.2	88.45	0	
17:04	60.01	12.46	18.12	-12.56	93.2	91.27	0	
17:04	62.83	12.47	18.62	-12.99	93.03	94.08	0	
17:05	65.65	13.39	19.13	-14.34	93.19	96.9	0	
17:05	68.46	13.07	19.63	4.931	93.32	99.71	0	
17:06	71.27	12.42	20.13	-16.24	93.31	102.5	0	
17:06	74.09	13.23	20.63	9.684	93.19	105.3	0	
17:07	76.9	12.43	21.14	-11.88	93.21	108.2	0	
17:07	79.72	12.51	21.64	-18.47	93.08	111	0	
17:08	82.53	12.87	22.15	-20.12	93.25	113.8	0	
17:08	0	0	0	0	0	0	0	Start Mixing Tail Slurry
17:08	0	0	0	0	0	0	0	Reset Volume
17:08	0	0	0	0	0	0	0	[CumVol]=84.6 bbl
17:08	85.58	14.04	22.65	-24.34	93.21	116.6	0	
17:09	3.467	14.71	23.15	75.21	93.19	119.4	0	
17:09	6.28	14.54	23.65	64.84	93.15	122.2	0	
17:10	9.102	14.48	24.16	85.5	93.2	125	0	
17:10	11.91	14.65	24.66	58.53	93.35	127.9	0	
17:11	14.73	14.84	25.16	85.89	93.26	130.7	0	
17:11	17.54	14.37	25.67	55.12	93.24	133.5	0	
17:12	20.35	14.73	26.17	63.17	93.21	136.3	0	
17:12	23.17	14.64	26.67	62.3	93.2	139.1	0	
17:13	25.99	14.52	27.18	55.1	93.27	141.9	0	
17:13	28.8	14.72	27.68	54.71	93.24	144.7	0	
17:14	31.61	14.42	28.18	45.85	93.2	147.6	0	
17:14	0	0	0	0	0	0	0	Shutdown
17:14	32.53	13.66	28.69	-128.6	.2027	148.5	0	
17:15	0	0	0	0	0	0	0	Drop Top Plug
17:15	0	0	0	0	0	0	0	Start Displacement
17:15	32.53	13.76	29.19	-128.6	7257E-8	148.5	0	
17:15	32.53	13.89	29.69	-129	2598E-11	148.5	0	
17:16	32.53	13.93	30.2	-122.8	9302E-15	148.5	0	
17:16	34.64	10.63	30.7	-17.61	94.94	150.6	0	
17:17	37.52	8.608	31.2	-74.41	95.25	153.5	0	
17:17	40.4	8.236	31.71	-69.17	95.18	156.3	0	

REVISIONS
 10/17/97
 A 11:13

ORIGINAL

Well		Flow		Service Date		Customer		Job Number	
Knier #2-4		Hugoton		7/22/97		MOBIL OIL CORP V39050075		20008928	
Time	CumVol	Density	Elapsed Time	Pressure Off	Pump	Rozero	Message		
24 hr clock	bbf	ppg	min	psi	mbl/s	sbl			
17:18	43.27	8.174	32.21	-46.72	95.17	159.2	0		
17:18	46.14	8.198	32.71	-21.01	95.18	162.1	0		
17:19	0	0	0	0	0	0	Returns at Surface		
17:19	49	7.99	33.22	-4.19	93.41	164.9	0		
17:19	51.9	8.244	33.74	12.28	93.19	167.8	0		
17:20	54.73	8.228	34.24	33.05	93.2	170.7	0		
17:21	57.54	8.265	34.74	63.27	93.2	173.5	0		
17:21	60.35	8.239	35.25	89.35	93.21	176.3	0		
17:22	63.16	8.231	35.75	112.4	93.21	179.1	0		
17:22	65.99	8.234	36.25	136.4	93.18	181.9	0		
17:23	68.8	8.266	36.76	162.2	92.58	184.7	0		
17:23	0	0	0	0	0	0	Lower Pump Rate		
17:23	70.23	8.262	37.26	113.5	33.87	186.2	0		
17:24	71.25	8.169	37.76	115	33.69	187.2	0		
17:24	72.27	8.116	38.27	125.9	33.71	188.2	0		
17:25	73.32	8.133	38.78	125.1	33.64	189.3	0		
17:25	74.34	8.132	39.29	136	33.63	190.3	0		
17:26	75.36	8.154	39.79	135.5	33.67	191.3	0		
17:26	0	0	0	0	0	0	Bump Top Plug		
17:26	0	0	0	0	0	0	Shutdown		
17:26	75.61	8.268	40.3	803.6	3591E-5	191.6	0		
17:27	75.61	8.263	40.8	810.7	1285E-8	191.6	0		
17:27	75.61	8.243	41.3	821.5	4602E-12	191.6	0		
17:27	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	0	0	5.7	116.5	0	0	0		
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density		
820	820	100	800	0		0 bbl	0 lb/gal		
Avg. N2 Percent		Designed Slurry Volume		Displacement		<input checked="" type="checkbox"/> Cement Circulated to Surface? Volume <u>251</u> bbl <input type="checkbox"/> Washed Thru Perfs To <u>0</u> ft <u>74.5545</u>			
0 %		0 bbl		42 bbl					
Customer or Authorized Representative				Dowell Supervisor			<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed		
Marvin Harvey				FICA BRENNON					

Well	Knier #2-4	Client	Mobil Oil
Field	Hugoton	SIR No.	20008928
Country	USA	Job Date	7/22/97 4:46:15 PM



Job: mob8928

07/22/1997 17:29



Cementing Service Report

ORIGINAL

Customer	Job Number
MOBIL OIL CORP V390500757A	20008929

Well Knier 2-4		Location (legal) sec 34-34s-37w		Dowell Location Ulysses, KS		Service Date 7/16/97		
Fluid Hugoton		Formation Name/Type Dolomite		Deviation 0 °		Bit Size 7.25 in	Well MD 2,968 ft	Well TVD 0 ft
County Stevens		State/Province KS		BHP 0 psi	BHST 0 °F	BHCT 0 °F	Poro Press. Gradient 0 psi/ft	
Rig Name Murfun	Drilled For Gas	Service Via Land		Casing/Liner				
Water Depth	Well Class 101	Well Type Development		Depth, ft 2968	Size, in 5.5	Weight, lb/ft 14	Grade	Thread
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	Weight, lb/ft	Grade	Thread	
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 5 1/2 casing as per customer request. Location #62994 I.D. MTHarvey				Top, ft 0	Bottom, ft 0	spf 0	No. of Shots 0	Total Interval 0 ft
				Diameter 0 in	Treat Down Casing	Displacement 71.6 bbl	Packer Type	Packer Depth 0 ft
				Tubing Vol. 0 bbl	Casing Vol. 0.0244 bbl	Annular Vol. 0.0217 bbl	Open Hole Vol 0 bbl	
				Casing Tools	Squeeze Job			
				Shoe Type: Guide	Squeeze Type	Shoe Depth: 2968 ft	Tool Type:	
Casing/Tubing Secured <input type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>			Stage Tool Type	Tool Depth: 0 ft			
Lift Pressure: 609 psi	Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>		Stage Tool Depth: 0 ft	Tail Pipe Size: 0 in			
No. Centralizers: 0	Top Plugs: 0	Bottom Plugs: 0		Collar Type: Auto-Fill	Tail Pipe Depth: 0 ft			
Cement Head Type: Single	Job Scheduled For: 7/24/97 18:30	Arrived on Location: 7/24/97 18:30	Leave Location:		Collar Depth: 2921 ft	Sqz Total Vol: 0 bbl		
Time	CumVol	Density	Pressure U1	TotFlowrate	Message			
24 hr clock	bbl	ppg	psi	bpm				
20:48	0	0	0	0	START ACQUISITION			
20:48	0	7.906	-9.135	0				
20:48	0	0	0	0	Pressure Test Lines			
20:48	1867E-5	7.905	1972	322E-6				
20:49	1869E-5	7.905	5.409	8187E-12				
20:49	0	0	0	0	Start Pumping Water			
20:50	2.052	8.005	218.9	5.578				
20:50	5.789	8.028	232.7	5.592				
20:51	9.527	8.064	243.4	5.591				
20:52	13.26	8.03	251.3	5.592				
20:52	17	8.029	265.8	5.589				
20:53	20.84	8.087	281.1	5.596				
20:54	24.58	8.082	319.5	5.581				
20:54	0	0	0	0	Start Mixing Lead Slurry			
20:54	28.32	9.701	332.4	5.591				
20:54	0	0	0	0	[CumVol]=28.32 bbl			
20:54	0	0	0	0	Reset Volume			
20:55	3.551	11.14	348.9	5.583				
20:56	7.394	11.64	347.5	5.592				
20:56	11.13	11.48	320.5	5.592				
20:57	14.87	11.34	307.1	5.592				

RECEIVED
 MOBIL OIL CORP
 1997 NOV 10 AM 11:13

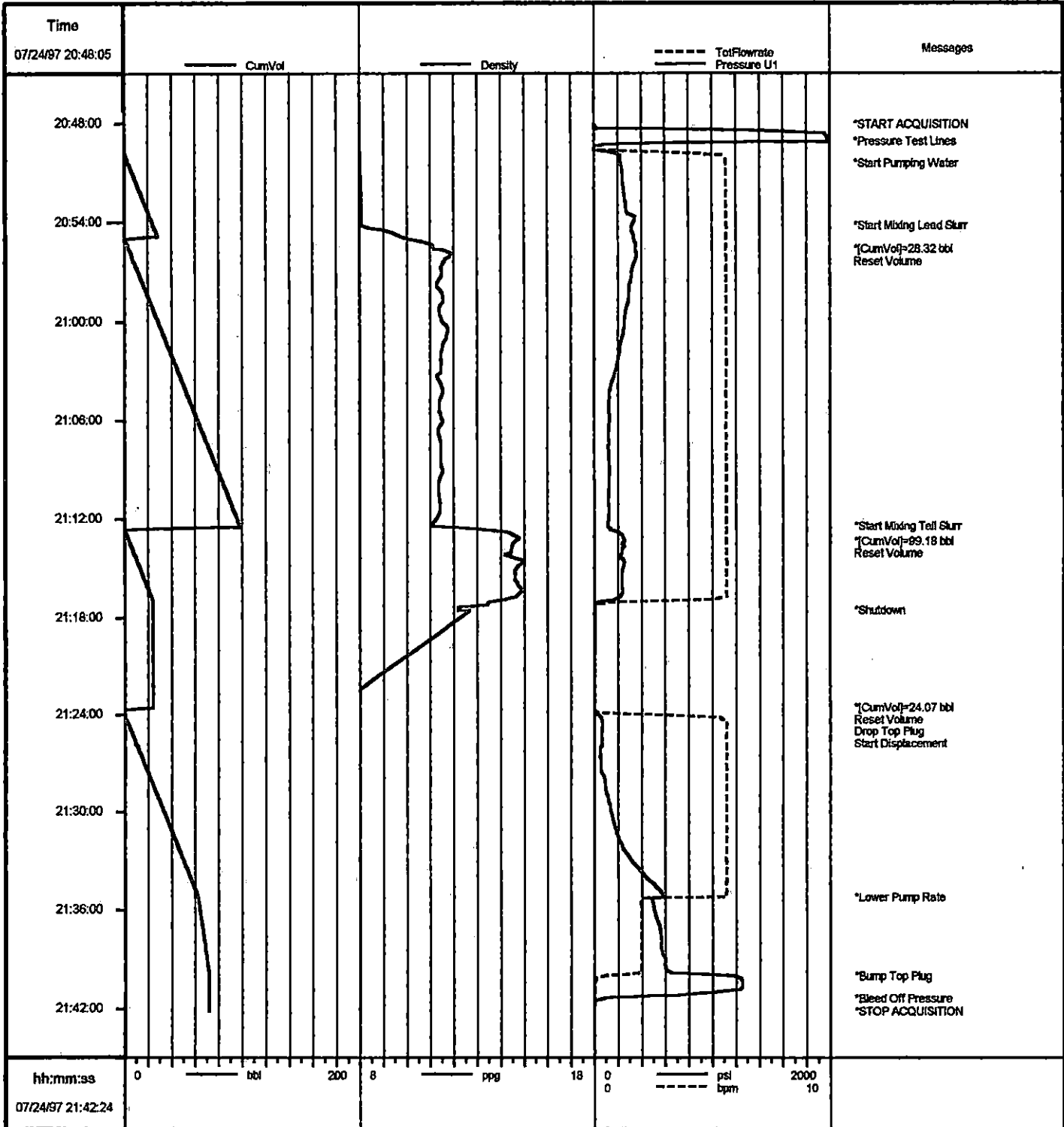
Well		Field			Service Date		Customer	Job Number
Knier #2-4		Hugoton			7/16/97		MOBIL OIL CORP V39050075	20008929
Time	CumVol	Density	Pressure Uf	TotFlowrate				Message
24 hr clock	bbf	ppg	psi	bpm				
20:58	18.61	11.46	292.7	5.592	0	0	0	
20:58	22.34	11.51	283.3	5.591	0	0	0	
20:59	26.08	11.38	259.8	5.593	0	0	0	
21:00	29.82	11.66	255.5	5.59	0	0	0	
21:00	33.56	11.69	239.2	5.592	0	0	0	
21:01	37.4	11.51	217.1	5.591	0	0	0	
21:02	41.14	11.45	200.8	5.593	0	0	0	
21:02	44.88	11.45	185	5.59	0	0	0	
21:03	48.61	11.37	153.1	5.593	0	0	0	
21:04	52.35	11.55	128.9	5.592	0	0	0	
21:04	56.09	11.38	125.2	5.594	0	0	0	
21:05	59.83	11.43	122.8	5.592	0	0	0	
21:06	63.67	11.45	124.9	5.598	0	0	0	
21:06	67.41	11.38	121.8	5.576	0	0	0	
21:07	71.14	11.44	120.7	5.598	0	0	0	
21:08	74.88	11.45	122.8	5.592	0	0	0	
21:08	78.62	11.5	123.8	5.599	0	0	0	
21:09	82.36	11.39	125.1	5.591	0	0	0	
21:10	86.09	11.33	118.8	5.601	0	0	0	
21:10	89.83	11.4	118.8	5.593	0	0	0	
21:11	93.57	11.39	121.1	5.592	0	0	0	
21:12	97.31	11.07	112.5	5.602	0	0	0	
21:12	0	0	0	0	0	0	0	200 SX
21:12	0	0	0	0	0	0	0	Start Mixing Tail Slurry
21:12	0	0	0	0	0	0	0	Reset Volume
21:12	0	0	0	0	0	0	0	[CumVol]=99.18 bbl
21:12	1.681	14.45	225.4	5.591	0	0	0	
21:13	5.521	14.72	244.7	5.591	0	0	0	
21:14	9.258	14.27	213.8	5.593	0	0	0	
21:14	13	14.71	245.2	5.595	0	0	0	
21:15	16.73	14.6	232.4	5.592	0	0	0	
21:16	20.47	14.9	238.3	5.595	0	0	0	
21:16	24	13.53	47.78	1.541	0	0	0	
21:17	0	0	0	0	0	0	0	Shutdown
21:22	24.07	7.602	-3815E-7	2714E-17	0	0	0	
21:23	24.07	7.662	-5516E-5	6899E-22	0	0	0	
21:23	0	0	0	0	0	0	0	[CumVol]=24.07 bbl
21:23	0	0	0	0	0	0	0	Reset Volume
21:23	0	0	0	0	0	0	0	Drop Top Plug
21:24	0	0	0	0	0	0	0	Start Displacement
21:24	.8149	7.868	57.38	5.19	0	0	0	
21:24	4.637	7.765	65.18	5.592	0	0	0	
21:25	8.374	7.601	62.62	5.591	0	0	0	
21:26	12.11	7.612	46.17	5.593	0	0	0	
21:26	15.85	7.632	50.1	5.582	0	0	0	
21:27	19.69	7.594	53.34	5.593	0	0	0	
21:28	23.43	7.521	87.18	5.592	0	0	0	
21:28	27.17	7.503	101.6	5.593	0	0	0	
21:29	30.9	7.532	129.8	5.592	0	0	0	
21:30	34.64	7.515	145.6	5.595	0	0	0	
21:30	38.38	7.449	170.8	5.59	0	0	0	
21:31	42.11	7.32	199.4	5.593	0	0	0	
21:32	45.85	6.833	241.6	5.593	0	0	0	
21:32	49.69	6.581	304.6	5.591	0	0	0	

Well		Field			Service Date	Customer		Job Number
Knier #2-4		Hugoton			7/16/97	MOBIL OIL CORP V39050075		20008929
Time	Cum Vpl	Density	Pressure Uf	Tot Flowrate				Message
24 hr clock	bbbl	PPG	psi	bpm				
21:33	53.43	6.435	388.1	5.589	0	0	0	
21:34	57.16	6.231	468.5	5.587	0	0	0	
21:34	60.9	6	565.5	5.585	0	0	0	
21:35	0	0	0	0	0	0	0	Lower Pump Rate
21:35	63.14	5.246	494.8	1.986	0	0	0	
21:36	64.47	4.323	513.6	1.986	0	0	0	
21:36	66.8	3425E-5	546.9	1.989	0	0	0	ORIGINAL
21:37	67.13	.0319	555	1.987	0	0	0	
21:38	68.49	-.0212	561.2	1.987	0	0	0	
21:38	69.82	-6215E-5	591.7	1.985	0	0	0	
21:39	71.15	-7109E-5	601.8	1.985	0	0	0	
21:40	0	0	0	0	0	0	0	Bump Top Plug
21:40	71.82	-9496E-5	1248	5017E-6	0	0	0	
21:40	0	0	0	0	0	0	0	Bleed Off Pressure
21:40	71.82	-.1008	1123	1275E-10	0	0	0	
21:41	71.82	-.1013	-3793E-5	3242E-15	0	0	0	
21:42	71.82	-9921E-5	-2.785	8242E-20	0	0	0	

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	124	0	0	0
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
1250	0	0	0	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		72 bbl			
Customer or Authorized Representative				Dowell Supervisor		<input type="checkbox"/> Circulation Lost <input checked="" type="checkbox"/> Job Completed	
Marvin Harvey				KING CHARLEY			

Well Knier 2-4	Client Mobil Oil Corp
Field Hugoton	SIR No. 20008929
Country USA	Job Date 7/24/97 8:48:05 PM



Job: mobil
07/24/1997 21:55

* Mark of Schlumberger