FORM MUST BE TYPED **ORIGINAL** SIDE ONE

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
X New Well ____ Re-Entry ____ Workover

____ Oil ____ SWD ____ SIOW ____ Temp. Abd.
X 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. ____

9-20-97 Spud Date | 9-24-97 Date Reached TD | 10-20-97 Completion Date

API NO. 15- 129-21521**0000**

County Morton

____ - NW - NW - SE Sec. 32 Twp. 34 Rge. 39 E X W

2255 Feet from (S) N (circle one) Line of Section

2570 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 H. Ehrhard #1 Unit Well # 2

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3309 KB 3316

Total Depth 2920 PBTD 2868

Amount of Surface Pipe Set and Cemented at 1409 Feet

Multiple Stage Cementing Collar Used? ____ Yes X 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 AH I 4-22-98 V.C.
(Data must be collected from the Reserve Pit)

Chloride content 6,000 ppm Fluid volume 250 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 12-18-97

Subscribed and sworn to before me this 18th day of December, 19 97.

Notary Public Lynn K. Hunt

Date Commission Expires February 20, 2001

7-104.kcc

12-22-97

LYNN K. HUNT
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 2-20-01

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)

Form ACO-1 (7-91)

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name H. Ehrhard #1 Unit Well # 2

Sec. 32 Twp. 34 Rge. 39 ☐ East ☒ West County Morton

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.)	☐ Yes	☒ No
Samples Sent to Geological Survey	☐ Yes	☒ No
Cores Taken	☐ Yes	☒ No
Electric Log Run (Submit Copy.)	☐ Yes	☒ No

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#	1409	Class C Class C	650 200	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2912	Class C Class C	220 110	3% D79 2% B28

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate ___ Protect Casing ___ Plug Back TD ___ 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	2636-51	Acid: 1,000 gals 7.5% HCL	
	2672-87	Fracd: 18,732 gals WF130 in 80q foam	
		41,000 lbs 16/30 sand	

TUBING RECORD	Size	Set At	Packer At	Liner Run
				☐ Yes ☒ No

Date of First, Resumed Production, SWD or Inj.	Producing Method
10-9-97	☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		184			

Disposition of Gas:

☐ Vented ☒ Sold ☐ Used on Lease

(If vented, submit ACO-18.)

METHOD OF COMPLETION

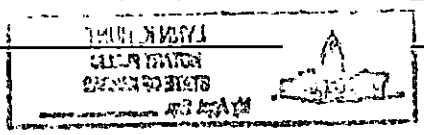
☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify)

Production Interval

2636

2687



Schlumberger
Dowell

Cementing Service Report

15-129-21521

ORIGINAL

Customer	Job Number
MOBIL OIL CORP V390500757A	20018211

Well	Location (legal)	Dowell Location	Service Date
H. ERHARD UNIT #1 2	32, 34S, 39W	Ulysses, KS	9/8/97

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
HUGOTON	Dirty-Sandstone	0 °	12.3 in	1,419 ft	1,419 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Stevens	KS	0 psi	0 °F	0 °F	0 psi/ft

Rig Name	Drilled For	Service Via
NORSEMAN 4	Gas	Land

Water Depth	Well Class	Well Type
	101	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
Bentonite	9.2 lb/gal	0 cp

Service Line	Job Type
Cementing	Cem Surface Casing

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
0 psi	0 psi	Single cement head

Service Instructions

Cement and equipment to safely cement surface casing as per customer's request
Location #62865 I.D. MTHARVEY
Field est. $10,809.67

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
1413	8.63	24		
0	0	0		

Tubing/Drill Pipe

Depth,	Size, in	Weight, lb/ft	Grade	Thread
0				
0				

Perforations/Open Hole

Top, ft	Bottom, ft	spf	No. of Shots	Total Interval
0	0	0	0	0 ft
0	0	0	0	Diameter
0	0	0	0	0 in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	87.3 bbl		0 ft

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
0 bbl	90 bbl	0 bbl	0 bbl

Casing/Tubing Secured ☐ 1 Hole Volume Circulated prior to Cementing ☐

Lift Pressure: 580 psi

Pipe Rotated ☐ Pipe Reciprocated ☐

No. Centralizers:	Top Plugs:	Bottom Plugs:
10	1	0

Cement Head Type: Single

Job Scheduled For:	Arrived on Location:	Leave Location:
9/21/97 14:00	9/21/97 14:00	

Casing Tools

Shoe Type:	Guide
Shoe Depth:	1419 ft
Stage Tool Type	
Stage Tool Depth:	0 ft
Collar Type:	Auto-Fill
Collar Depth:	1370 ft

Squeeze Job

Squeeze Type	
Tool Type:	
Tool Depth:	0 ft
Tail Pipe Size:	0 in
Tail Pipe Depth:	0 ft
Sqz Total Vol:	0 bbl

Time (24 hr clock)	CumVol (bbl)	Density (ppg)	Pressure U1 (psi)	totcumvol (bbl)	TotFlowrate (bpm)			Message
17:13	0	0	0	0	0	0	0	START ACQUISITION
17:13	0	8.333	9155E-13	0	0	0	0	
17:14	0	0	0	0	0	0	0	Pressure Test Lines
17:14	.3818	8.333	1371	.3818	2651E-5	0	0	
17:15	0	0	0	0	0	0	0	Bleed Off Pressure
17:15	.3854	8.333	10.95	.3854	1635E-11	0	0	
17:16	0	0	0	0	0	0	0	[CumVol]=.3854 bbl
17:16	0	0	0	0	0	0	0	Reset Volume
17:16	0	0	0	0	0	0	0	Start Pumping Water
17:16	1.572	8.316	146.9	1.957	5.605	0	0	
17:17	7.295	8.252	152.4	7.68	5.706	0	0	
17:18	12.99	8.251	162.6	13.38	5.695	0	0	
17:19	18.68	8.3	173.8	19.07	5.664	0	0	
17:20	24.35	8.522	183.3	24.74	5.695	0	0	
17:21	0	0	0	0	0	0	0	[CumVol]=24.73 bbl
17:21	0	0	0	0	0	0	0	Reset Volume
17:21	0	0	0	0	0	0	0	Start Mixing Lead Slurry
17:21	5.112	12.61	218.1	30.42	5.643	0	0	
17:22	10.79	12.76	220.2	36.09	5.677	0	0	
17:23	16.47	12.78	209.3	41.77	5.649	0	0	
17:24	22.16	12.73	203.5	47.47	5.675	0	0	

Well	Field	Service Date	Customer	Job Number
H. ERHARD UNIT #1 #2	HUGOTON	9/8/97	MOBIL OIL CORP V39050075	20018211

Time 24 hr clock	CumVol bbl	Density ppg	Pressure U1 psi	totcumvol bbl	TotFlowrate bpm			Message
17:25	27.84	12.74	196.5	53.15	5.686	0	0	
17:26	33.53	12.79	189.7	58.84	5.683	0	0	
17:27	39.24	12.76	180.1	64.54	5.685	0	0	
17:29	45.06	12.87	171.8	70.36	5.713	0	0	
17:30	50.78	12.76	160	76.09	5.702	0	0	
17:31	56.5	12.7	154.6	81.81	5.728	0	0	
17:32	62.23	13.01	151	87.54	5.687	0	0	
17:33	67.94	13.12	148.5	93.25	5.694	0	0	
17:34	73.65	12.85	142	98.95	5.682	0	0	
17:35	79.47	12.66	142.5	104.8	5.704	0	0	
17:36	85.18	12.54	136.8	110.5	5.703	0	0	
17:37	90.89	12.86	146.6	116.2	5.7	0	0	
17:38	96.59	12.68	142.1	121.9	5.704	0	0	
17:39	102.3	12.98	146.5	127.6	5.704	0	0	
17:40	108	12.33	135.3	133.3	5.717	0	0	
17:41	113.8	12.65	144.2	139.1	5.704	0	0	
17:42	119.3	12.92	87.47	144.6	4.207	0	0	
17:43	124.3	12.88	144.5	149.6	5.708	0	0	
17:44	130	12.61	143	155.3	5.724	0	0	
17:45	135.7	12.8	146.7	161.1	5.705	0	0	
17:46	141.5	12.76	146.7	166.8	5.717	0	0	
17:47	147.2	12.68	146.6	172.5	5.701	0	0	
17:48	152.9	12.69	146.7	178.2	5.704	0	0	
17:49	158.6	12.28	149.6	183.9	5.718	0	0	
17:50	164.3	13.01	177.9	189.7	5.678	0	0	
17:51	170	12.76	194.3	195.4	5.683	0	0	
17:52	175.8	12.92	224	201.2	5.676	0	0	
17:53	181.5	12.84	247.2	206.8	5.662	0	0	
17:54	187.2	12.6	256.3	212.5	5.668	0	0	
17:55	192.9	12.57	263.7	218.2	5.679	0	0	
17:56	198.6	13.09	281.8	223.9	5.675	0	0	
17:57	204.3	13	277.5	229.6	5.685	0	0	
17:58	0	0	0	0	0	0	0	Returns at Surface
17:58	210.1	12.7	274.1	235.4	5.695	0	0	
17:58	0	0	0	0	0	0	0	148bbl/440sks returned
17:59	215.8	12.3	271	241.1	5.696	0	0	
17:59	0	0	0	0	0	0	0	[CumVol]=216.2 bbl
17:59	0	0	0	0	0	0	0	Reset Volume
17:59	0	0	0	0	0	0	0	Start Mixing Tail Slurry
18:00	4.268	13.63	210.2	245.9	3.91	0	0	
18:01	7.422	14.95	229.4	249.1	3.881	0	0	
18:02	11.32	14.66	220.6	253	3.898	0	0	
18:03	15.22	14.53	213.1	256.9	3.889	0	0	
18:04	18.12	14.45	145.8	259.8	2.469	0	0	
18:05	20.85	15.42	215.2	262.5	3.834	0	0	
18:06	24.76	14.51	193.4	266.4	3.894	0	0	
18:07	28.11	15.07	133.3	269.8	2.465	0	0	
18:08	30.58	14.87	133.8	272.3	2.464	0	0	
18:09	34.03	14.87	193.7	275.7	3.894	0	0	
18:10	36.7	14.59	128.1	278.4	2.485	0	0	
18:11	39.14	14.78	140.3	280.8	3.027	0	0	
18:12	41.66	14.95	138.3	283.3	2.48	0	0	
18:13	0	-6.25	-3761	0	0	0	0	

ORIGINAL

MAR 22 2:26 PM
KANSAS CORP COMM
RECEIVED

Well	Field	Service Date	Customer	Job Number
H. ERHARD UNIT #1 #2	HUGOTON	9/8/97	MOBIL OIL CORP V39050079	20018211

Time (24 hr clock)	CumVol (bbl)	Density (ppg)	Pressure U1 (psi)	totcumvol (bbl)	TotFlowrate (bpm)			Message
18:14	0	0	0	0	0	0	0	Shutdown
18:14	0	0	0	0	0	0	0	Drop Top Plug
18:14	0	0	0	0	0	0	0	Start Displacement
18:14	0	14.38	4.582	0	0	0	0	
18:15	0	14.38	2928E-8	0	0	0	0	
18:16	3061E-7	14.38	9192E-13	3061E-7	1126E-7	0	0	
18:17	2.737	9.356	211	2.737	5.177	0	0	
18:18	7.95	8.158	197.7	7.95	5.202	0	0	
18:19	13.15	8.107	222.8	13.15	5.18	0	0	
18:20	18.43	8.251	247.7	18.43	5.165	0	0	
18:21	23.61	8.12	276.7	23.61	5.178	0	0	
18:22	28.78	8.292	305.1	28.78	5.157	0	0	
18:23	33.95	8.224	337.5	33.95	5.164	0	0	
18:24	39.14	8.233	374.4	39.14	5.452	0	0	
18:25	44.78	8.354	417.6	44.78	5.706	0	0	
18:26	50.49	8.356	453.4	50.49	5.686	0	0	
18:27	56.18	8.356	484.1	56.18	5.698	0	0	
18:28	61.9	8.356	522.4	61.9	5.706	0	0	
18:29	67.61	8.356	563.8	67.61	5.67	0	0	
18:30	73.29	8.358	599.9	73.29	5.659	0	0	
18:31	0	0	0	0	0	0	0	Lower Pump Rate
18:31	78.94	8.364	622.4	78.94	5.403	0	0	
18:32	82.01	8.364	567.8	82.01	2.537	0	0	
18:33	84.52	8.363	583.8	84.52	2.477	0	0	
18:34	0	0	0	0	0	0	0	Lower Pump Rate
18:34	86.98	8.356	583.1	86.98	2.224	0	0	
18:35	87.81	2943E-5	573.7	87.81	.8536	0	0	
18:36	88.67	1728E-5	581.4	88.67	.8492	0	0	
18:37	89.52	1657E-5	583	89.52	.8414	0	0	
18:38	0	0	0	0	0	0	0	Bump Top Plug
18:38	90.05	1503E-5	833.7	90.05	5549E-6	0	0	
18:39	90.06	1526E-5	805.2	90.06	6299E-13	0	0	
18:40	90.06	1526E-5	-9.164	90.06	8074E-20	0	0	
18:41	90.13	1451E-5	173.6	90.13	.1584	0	0	
18:42	0	0	0	0	0	0	0	End Job

Post Job Summary

Average Pump Rates, bpm

Slurry	N2	Mud	Maximum Rate
4	0	0	5.7

Volume of Fluid Injected, bbl

Total Slurry	Mud	Spacer	N2
258	0	25	0

Treating Pressure Summary, psi

Maximum	Final	Average	Bump Plug to	Breakdown
580	830	250	0	0

Breakdown Fluid

Type	Volume	Density
	0 bbl	0 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement
0 %	0 bbl	88 bbl

☑ Cement Circulated to Surface? Volume 0 bbl

☐ Washed Thru Perfs To 0 ft

Customer or Authorized Representative	Dowell Supervisor		
Marvin Harvey	Charley King	☐ CirculationLost	☑ Job Completed

ORIGINAL

RECEIVED
KANSAS CORP COMM
1997 DEC 22 P 2:26

Schlumberger
Dowell

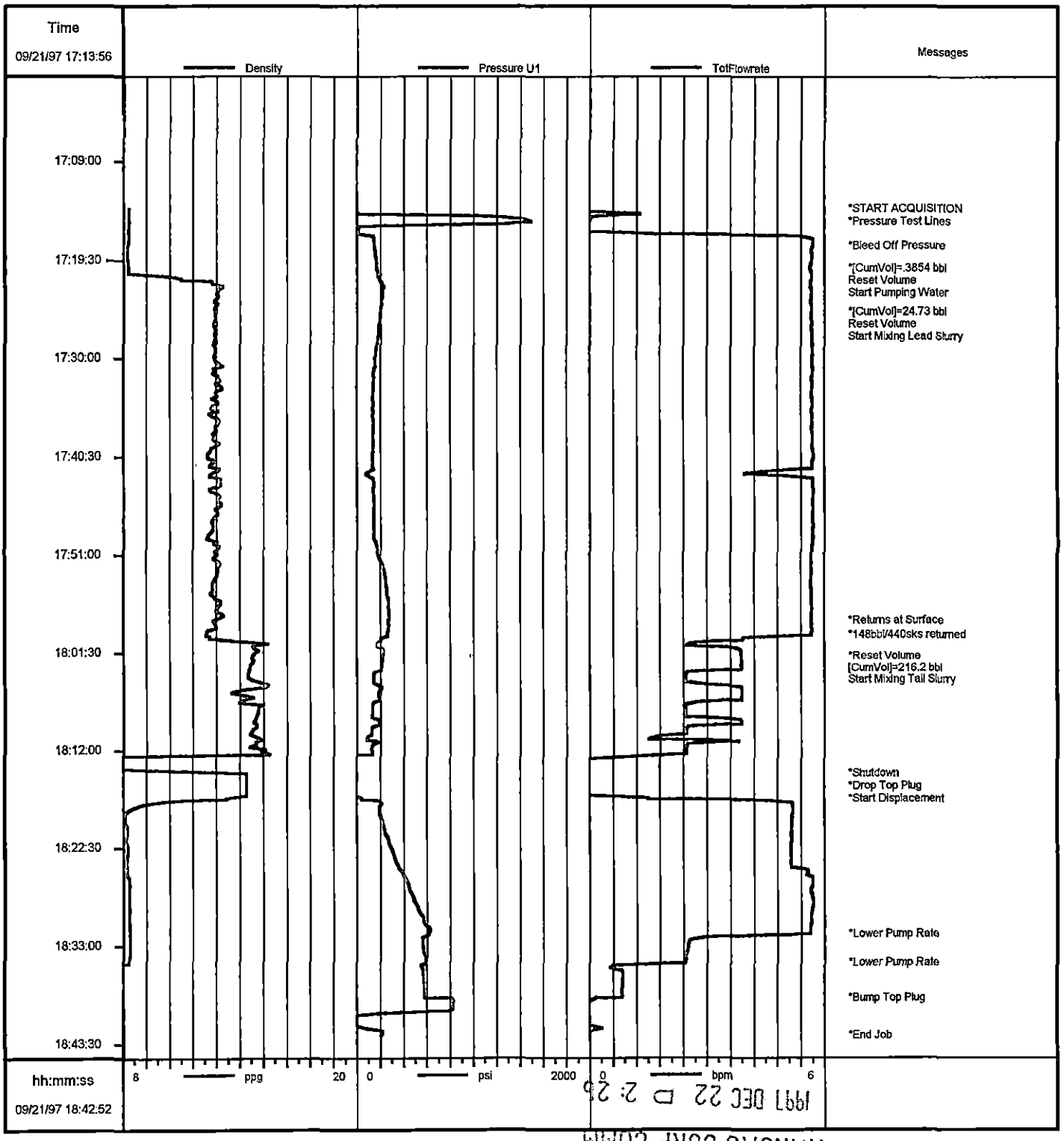
Cementing Job Report

PRISM* V2.2

15-129-21521

Well	H. Erhard 1-2	**Client**	Mobil
Field	*Hugoton*	**SIR No.**	20018211
Country	USA	**Job Date**	9/21/97 5:13:56 PM

ORIGINAL



Job: mobil
09/21/1997 18:48

* Mark of Schlumberger

Schlumberger
Dowell

Cementing Service Report

ORIGINAL

Customer	Job Number
MOBIL OIL CORP V390500757A	20018213

Well	Location (legal)	Dowell Location	Service Date
H. ERHARD UNIT #1 2	32, 34S, 39W	Ulysses, KS	9/8/97

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
HUGOTON		0 °	7.88 in	2,912 ft	2,912 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Stevens	KS	0 psi	0 °F	0 °F	0 psi/ft

Rig Name	Drilled For	Service Via
NORSEMAN 4	Gas	Land

Water Depth	Well Class	Well Type
	101	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
Bentonite	9.3 lb/gal	0 cp

Service Line	Job Type
Cementing	Cem Prod Casing

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
0 psi	0 psi	Single cement head

Service Instructions

Cement and equipment to safely cement 5 1/2 casing as per customer's request.
Loc #62865 Acc code 4903
I.D. JLLASITE
Field Est $ 7518.93

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
2910	5.5	14		
0	0	0		

Tubing/Drill Pipe

Depth,	Size, in	Weight, lb/ft	Grade	Thread
0				
0				

Perforations/Open Hole

Top, ft	Bottom, ft	spf	No. of Shots	Total Interval
0	0	0	0	0 ft
0	0	0	0	Diameter
0	0	0	0	0 in

Treat Down	Displacement	Packer Type	Packer Depth
Casing	69.9 bbl		0 ft

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
0 bbl	71 bbl	0 bbl	0 bbl

Casing/Tubing Secured ☐ 1 Hole Volume Circulated prior to Cementing ☐

Lift Pressure: 475 psi

Pipe Rotated ☐ Pipe Reciprocated ☐

No. Centralizers:	Top Plugs:	Bottom Plugs:
10	1	0

Cement Head Type: Single

Job Scheduled For:	Arrived on Location:	Leave Location:
9/24/97 5:30	9/24/97 5:30	

Casing Tools

Shoe Type:	Gulde
Shoe Depth:	2910 ft
Stage Tool Type	
Stage Tool Depth:	*0 ft*
Collar Type:	Auto-Fill
Collar Depth:	2864 ft

Squeeze Job

Squeeze Type	
Tool Type:	
Tool Depth:	0 ft
Tail Pipe Size:	*0 in*
Tail Pipe Depth:	0 ft
Sqz Total Vol:	0 bbl

Time 24 hr clock	CumVol bbl	Density ppg	Pressure U1 psi	TotFlowrate bpm				Message
8:05	0	0	0	0	0	0	0	START ACQUISITION
8:05	0	8.333	-4.57	0	0	0	0	
8:05	0	0	0	0	0	0	0	Pressure Test Lines
8:06	.532	8.349	1509	2951E-5	0	0	0	
8:06	0	0	0	0	0	0	0	Bleed Off Pressure
8:06	0	0	0	0	0	0	0	[CumVol]=.5349 bbl
8:06	0	0	0	0	0	0	0	Reset Volume
8:07	1933E-6	8.347	16.39	2433E-7	0	0	0	
8:07	0	0	0	0	0	0	0	Start Pumping Water
8:07	.7333	8.322	75.47	3.548	0	0	0	
8:08	4.929	8.24	83.63	4.615	0	0	0	
8:09	9.168	8.302	91.44	4.566	0	0	0	
8:10	13.36	8.303	99.84	4.524	0	0	0	
8:11	17.52	8.301	96.62	4.487	0	0	0	
8:12	21.66	8.242	87.49	4.469	0	0	0	
8:13	25.75	8.173	73.67	3.876	0	0	0	
8:14	29.03	8.192	114.5	3.854	0	0	0	
8:14	0	0	0	0	0	0	0	[CumVol]=29.48 bbl
8:14	0	0	0	0	0	0	0	Reset Volume
8:14	0	0	0	0	0	0	0	Start Mixing Lead Slurry
8:15	3.031	11.36	119.6	3.845	0	0	0	

Well		Field		Service Date	Customer	Job Number
H. ERHARD UNIT #1 #2		HUGOTON		9/8/97	MOBIL OIL CORP V39050075	20018213

Time 24 hr clock	CumVol bbl	Density ppg	Pressure U1 psi	TotFlowrate bpm				Message
8:16	6.57	11.48	95.17	3.852	0	0	0	
8:17	10.12	11.5	68.97	3.854	0	0	0	
8:18	13.67	11.47	61.62	3.857	0	0	0	
8:19	17.22	11.5	59.82	3.845	0	0	0	
8:19	20.83	11.47	61.15	3.851	0	0	0	
8:20	24.39	11.51	63.35	3.853	0	0	0	
8:21	27.94	11.51	62.45	3.863	0	0	0	
8:22	31.51	11.44	63.59	3.858	0	0	0	
8:23	35.07	11.45	61.54	3.862	0	0	0	
8:24	38.63	11.41	63.8	3.864	0	0	0	
8:25	42.2	11.88	63.6	3.859	0	0	0	
8:26	45.76	11.51	63.98	3.87	0	0	0	
8:27	49.32	11.57	63.78	3.865	0	0	0	
8:28	52.9	11.51	63.99	3.867	0	0	0	
8:29	56.46	11.53	62.25	3.871	0	0	0	
8:30	60.02	11.51	63.95	3.867	0	0	0	
8:31	63.59	11.5	63.99	3.871	0	0	0	
8:31	67.16	11.7	63.73	3.849	0	0	0	
8:32	70.72	11.79	63.98	3.871	0	0	0	
8:33	74.29	11.55	63.62	3.861	0	0	0	
8:34	77.85	11.51	63.99	3.858	0	0	0	
8:35	81.41	11.51	63.99	3.868	0	0	0	
8:36	84.98	11.39	63.99	3.871	0	0	0	
8:37	0	0	0	0	0	0	0	Start Circulation
8:37	88.56	11.43	63.96	3.885	0	0	0	
8:38	92.15	11.43	63.99	3.89	0	0	0	
8:39	95.74	11.62	63.94	3.889	0	0	0	
8:40	99.32	11.59	63.99	3.887	0	0	0	
8:41	0	0	0	0	0	0	0	[CumVol]=102.7 bbl
8:41	0	0	0	0	0	0	0	Reset Volume
8:41	.195	13.07	67.03	3.872	0	0	0	
8:41	0	0	0	0	0	0	0	Start Mixing Tail Slurry
8:42	3.751	14.69	105.7	3.863	0	0	0	
8:43	7.307	14.74	105.1	3.858	0	0	0	
8:43	10.87	14.89	101.7	3.846	0	0	0	
8:44	14.42	14.82	107.7	3.849	0	0	0	
8:45	17.97	14.84	105.5	3.844	0	0	0	
8:46	21.52	15.01	109.3	3.849	0	0	0	
8:47	25.07	15.09	107.5	3.86	0	0	0	
8:47	0	0	0	0	0	0	0	Shutdown
8:48	0	0	0	0	0	0	0	[CumVol]=25.92 bbl
8:48	0	0	0	0	0	0	0	Reset Volume
8:51	4788E-6	9.091	4917E-6	235E-7	0	0	0	
8:51	0	0	0	0	0	0	0	Drop Top Plug
8:51	0	0	0	0	0	0	0	Start Displacement
8:52	1.202	9.211	41.07	3.494	0	0	0	
8:53	4.841	9.197	44.86	4.029	0	0	0	
8:54	8.548	9.101	45.03	4.033	0	0	0	
8:55	12.29	8.959	45.7	4.02	0	0	0	
8:56	16	8.827	45.7	4.037	0	0	0	
8:57	19.72	8.743	45.7	4.024	0	0	0	
8:58	23.42	8.694	45.7	4.032	0	0	0	
8:59	27.14	8.639	45.7	4.024	0	0	0	

ORIGINAL

RECEIVED
KANSAS CORP COMM
1997 DEC 22 2:02

Well	Field	Service Date	Customer	Job Number
H. ERHARD UNIT #1 #2	HUGOTON	9/8/97	MOBIL OIL CORP V39050075	20018213

Time (24 hr clock)	CumVol (bbl)	Density (ppg)	Pressure U1 (psi)	TotFlowrate (bpm)				Message
8:59	30.85	8.639	45.7	4.019	0	0	0	
9:00	34.57	8.639	45.7	4.041	0	0	0	
9:01	38.28	8.639	45.7	4.038	0	0	0	
9:02	41.99	8.639	45.7	4.013	0	0	0	
9:03	45.7	8.638	90.76	4.026	0	0	0	
9:04	49.4	8.639	163.9	4.003	0	0	0	
9:05	53.07	8.639	231.1	3.971	0	0	0	
9:06	56.74	8.639	298.8	3.976	0	0	0	
9:07	0	0	0	0	0	0	0	Lower Pump Rate
9:07	60.38	8.639	363.2	3.634	0	0	0	
9:08	62.75	8.623	363.4	2.083	0	0	0	
9:09	64.64	8.637	396.8	2.031	0	0	0	
9:10	66.5	8.639	425.9	2.009	0	0	0	
9:10	68.34	8.639	456	1.985	0	0	0	
9:11	0	0	0	0	0	0	0	Psi. check
9:11	69.63	8.631	902.1	1185E-5	0	0	0	
9:12	0	0	0	0	0	0	0	Bump Top Plug
9:12	69.63	8.639	18.42	5699E-12	0	0	0	
9:13	69.63	8.641	9.141	2741E-18	0	0	0	
9:14	69.63	8.628	9.141	1319E-24	0	0	0	
9:15	69.75	8.639	345.9	.7459	0	0	0	
9:16	69.92	8.639	16.96	4329E-9	0	0	0	
9:17	69.92	8.639	9.141	8916E-11	0	0	0	
9:18	69.92	8.639	9.141	4289E-17	0	0	0	
9:18	0	0	0	0	0	0	0	End Job

ORIGINAL

Post Job Summary

Average Pump Rates, bpm

Slurry	N2	Mud	Maximum Rate
3.5	0	0	4.1

Volume of Fluid Injected, bbl

Total Slurry	Mud	Spacer	N2
129	0	26	0

Treating Pressure Summary, psi

Maximum	Final	Average	Bump Plug to	Breakdown
980	480	100	0	0

Breakdown Fluid

Type	Volume	Density
	0 bbl	0 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement
0 %	0 bbl	69.7 bbl

☐ Cement Circulated to Surface? Volume bbl

☐ Washed Thru Perfs To 0 ft

Customer or Authorized Representative	Dowell Supervisor		
Jeff Lasiter	Charley King	☐ CirculationLost	☑ Job Completed