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. ____

10-24-97 10-30-97 11-19-97
Spud Date Date Reached TD Completion Date

API NO. 15- 189-222070000

County Stevens

____-NE-SW-SW Sec. 11 Twp. 33 Rge. 35 E 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 Alderman Unit Well # 3

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2943 KB 2952

Total Depth 2954 PBTD 2916

Amount of Surface Pipe Set and Cemented at 660 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, 5-7-98 V.C.
(Data must be collected from the Reserve Pit)

Chloride content 9,000 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

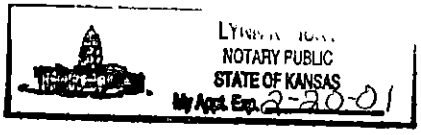
Title Regulatory Assistant Date 2-13-98

Subscribed and sworn to before me this 13th day of February, 19 98.

Notary Public Lynn K. Hunt

Date Commission Expires February 20, 2001

8-12.kcc



K.C.C. OFFICE USE ONLY
F ____ Letter of Confidentiality Attached
C ____ Wireline Log Received
S/C ____ Geologist Report Received
FEB 17 1998 2-17-1998
Distribution
____ KCC ____ SWD/Rep ____ NGPA
____ KGS ____ Plug ____ Other (Specify)

Form ACO-1 (7-91)

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name Alderman Unit Well # 3

Sec. 11 Twp. 33 Rge. 35 ☐ 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.) ☐ 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#	660	Class C	225	50:50 C/poz
					Class C	150	50:50 C/poz
Production Casing	7.875	5.500	14#	2944	Class C	200	3% D79
					Class C	100	2% B28

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone	Depth Top	Depth Bottom	Type of Cement	#Sacks Used	Type and Percent Additives

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	2710-2725	Acid: 1,000 gals 7.5% HCL	
		Fracd: 17,000 gals WF130 in 80q foam	
		31,320 lbs 16/30 sand	

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

Date of First, Resumed Production, SWD or Inj. 11-19-97 Producing Method ☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		189			

Disposition of Gas: METHOD OF COMPLETION Production Interval

☐ Vented ☒ Sold ☐ Used on Lease (If vented, submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled 2710

☐ Other (Specify) _____ 2725

CEMENTING SERVICE REPORT

Schlumberger
Dowell

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

TREATMENT NUMBER	DATE
200026617	10-25-97
STAGE	DS / DISTRICT
	41455 KS

WELL NAME AND NO.	LOCATION (LEGAL)
Alberman #3	Sec 11-33-35
FIELD-POOL	FORMATION
Hugoton	Chase
COUNTY/PARISH	STATE / API. NO.
Stevens	Kansas

NAME mobil oil

AND

ADDRESS ORIGINAL

ZIP CODE

SPECIAL INSTRUCTIONS

Surface 8 5/8

RIG NAME: Norseman #4

WELL DATA:		BOTTOM	TOP		
BIT SIZE	CSG/Liner Size	8 5/8			
TOTAL DEPTH	WEIGHT				
☐ ROT ☐ CABLE	FOOTAGE	646			
MUD TYPE	GRADE	K55			
☐ BHST ☐ BHCT	THREAD	8rd			
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)				TOTAL
MUD VISC.	Disp. Capacity	39.6			

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

Float	TYPE	Baffl	Stage Tool	TYPE	
	DEPTH	622		DEPTH	
SHOE	TYPE	Guide		TYPE	
	DEPTH	660		DEPTH	

Head & Plugs	☐ TBG ☐ D.P.	SQUEEZE JOB	
☐ Double	SIZE	TOOL	TYPE
☑ Single	☐ WEIGHT		DEPTH
☐ Swage	☐ GRADE	TAIL PIPE: SIZE	DEPTH
☐ Knockoff	☐ THREAD	TUBING VOLUME	Bbls
TOP ☑R ☐W	☐ NEW ☐ USED	CASING VOL. BELOW TOOL	Bbls
BOT ☐R ☐W	DEPTH	TOTAL	Bbls
		ANNUAL VOLUME	Bbls

IS CASING/TUBING SECURED? ☑ YES ☐ NO

LIFT PRESSURE PSI CASING WEIGHT ÷ SURFACE AREA (3.14 × R²)

PRESSURE LIMIT PSI BUMP PLUG TO PSI

ROTATE RPM RECIPROCATE FT No. of Centralizers

JOB SCHEDULED FOR TIME: DATE: | ARRIVE ON LOCATION TIME: DATE: | LEFT LOCATION TIME: DATE:

TIME 0001 to 2400	PRESSURE TBG OR D.P.	PRESSURE CASING	VOLUME PUMPED BBL INCREMENT	VOLUME PUMPED BBL CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
								PRE-JOB SAFETY MEETING
0448		2000						PSI test
0449		125	25	25	4.7	H2O	8.3	H2O ahead
04:54		150	0	0	4.7	cmt	11.8	Start Lead
05:10		101	75	75	4.7	cmt	14.8	Start Tail
05:20		100	31	106	4.7	0	0	Drop plug
05:24		136	15	15	4.6	H2O	8.3	Start disp. (returns) 11.6515
0525		195	5	20	4.6	H2O	8.3	Disp
05:28		270	10	30	4.6	H2O	8.3	Disp lower rate
05:30		271	5	35	2.2	H2O	8.3	Disp
05:33		1332	7	42	2.2	H2O	8.3	Bump plug
								Bleed back to 500 PSI & shut in.

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
1.	225	1.89	50/50 Poz/c + 6% D20 + 3% 5% + 5% D44 Bwow + 1/4 #/sk D29	75.7	12.8
2.	150	1.22	50/50 Poz/c + 2.5% S1 + 1/4 #/sk D29	32.6	14.6
3.					
4.					
5.					
6.					

RECEIVED
STATE CORPORATION COMMISSION
FEB 17 1998

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE 1500 MAX. 100 MIN:
☐ HESITATION SQ. ☐ RUNNING SQ.	CIRCULATION LOST	☐ YES ☑ NO	Cement Circulated To Surf. ☑ YES ☐ NO 28 Bbls.
BREAKDOWN PSI FINAL 1332 PSI	DISPLACEMENT VOL.	42 Bbls	TYPE OF WELL ☐ OIL ☑ GAS ☐ STORAGE ☐ INJECTION ☐ BRINE WATER ☐ WILDCAT 835X
Washed Thru Perfs ☐ YES ☐ NO TO FT.	MEASURED DISPLACEMENT ☐	☐ WIRELINE	

PERFORATIONS	CUSTOMER REPRESENTATIVE	DS SUPERVISOR
TO TO	Marvin Harvey	Jeff Diseker
TO TO		

Schlumberger
Dowell

Cementing Service Report

ORIGINAL

Customer	Job Number
MOBIL DRILLING	20026617

Well	Location (legal)	Dowell Location	Service Date
ALDERMAN 3	11, 33S, 35W	Ulysses, KS	10/22/97

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
HUGOTON	suface	0 °	0 in	670 ft	670 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Stevens	KS	2000 psi	0 °F	0 °F	0 psi/ft

Rig Name	Drilled For	Service Via
NORSEMAN 4	Gas	Land

Offshore Zone	Well Class	Well Type
	New	Development

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

Service Line	Job Type
Cementing	Cem Surface Casing

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
2000 psi	2000 psi	Single cement head

Service Instructions

Safely cement 8 5/8 surface as per customer request.
1–8 5/8 top plug,
AFE # AAXL
loc.code # 63118
I.D. # MTHHARVEY

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
660	8.63	24	K55	8RD
0	0	0		

Tubing/Drill Pipe

Depth,	Size, in	Weight, lb/ft	Grade	Thread
0	0	0		
0	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	39.6 bbl		0 ft

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
0 bbl	41 bbl	0 bbl	0 bbl

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

Lift Pressure: psi

Pipe Rotated ☐ Pipe Reciprocated ☐

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

Cement Head Type: Single

Job Scheduled For:	Arrived on Location:	Leave Location:

Casing Tools

Shoe Type:	Guide
Shoe Depth:	660 ft
Stage Tool Type	
Stage Tool Depth:	0 ft
Collar Type:	Other
Collar Depth:	619 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 U1 (ppg)	Pressure U1 (psi)	TotFlowrate (bpm)				Message
4:37	0	0	0	0	0	0	0	START ACQUISITION
4:37	1287E-5	8.394	9.158	.5312	0	0	0	
4:37	0	0	0	0	0	0	0	PAUSE ACQUISITION
4:37	0	0	0	0	0	0	0	[CumVol]=.2523 bbl
4:37	0	0	0	0	0	0	0	Reset Volume
4:45	0	0	0	0	0	0	0	RESTART AFTER PAUSE
4:45	0	8.377	.2644	1689E-25	0	0	0	
4:45	0	0	0	0	0	0	0	Pressure Test Lines
4:45	.2899	8.406	327.5	.1663	0	0	0	
4:46	.3165	8.395	1939	.0103	0	0	0	
4:46	.3258	8.397	2808	1491E-5	0	0	0	
4:47	.3285	8.378	96.37	4344E-7	0	0	0	
4:48	.3285	8.384	9.161	1876E-11	0	0	0	
4:48	.3285	8.393	8.447	8094E-16	0	0	0	
4:49	.3285	8.397	8.337	3492E-20	0	0	0	
4:50	0	0	0	0	0	0	0	Start Job
4:50	.7662	8.338	71.18	3.14	0	0	0	
4:50	0	0	0	0	0	0	0	Start Pumping Wash
4:50	3.972	8.007	130.2	5.037	0	0	0	
4:51	7.064	8.031	127	4.874	0	0	0	
4:52	10.2	8.153	129.7	4.921	0	0	0	
4:52	13.32	8.132	136.7	4.911	0	0	0	

Well	Field	Service Date	Customer	Job Number
ALDERMAN #3	HUGOTON	10/22/97	MOBIL DRILLING	20026617

Time	CumVol	Density U1	Pressure U1	TotFlowrate				Message
24 hr clock	bbl	ppg	psi	bpm				
4:53	16.43	8.243	140.5	4.898	0	0	0	
4:53	19.51	8.253	144.2	4.783	0	0	0	
4:54	22.54	8.46	151.2	4.84	0	0	0	
4:54	0	0	0	0	0	0	0	[CumVol]=24.16 bbl
4:54	0	0	0	0	0	0	0	Reset Volume
4:55	0	0	0	0	0	0	0	Start Mixing Lead Slurry
4:55	1.284	11.33	186.2	4.784	0	0	0	
4:55	4.304	12.31	201.4	4.714	0	0	0	
4:56	7.284	13.11	212.9	4.73	0	0	0	
4:57	10.31	12.78	200.9	4.695	0	0	0	
4:57	13.34	11.58	176.2	4.835	0	0	0	
4:58	16.39	13.68	220.8	4.747	0	0	0	
4:59	19.47	11.26	168.7	4.937	0	0	0	
4:59	22.57	12.7	181.1	4.868	0	0	0	
5:00	25.68	12.07	143.6	4.902	0	0	0	
5:00	28.82	12.73	135.5	4.974	0	0	0	
5:01	32	13.27	133.2	4.996	0	0	0	
5:02	35.17	13.12	121.4	5.005	0	0	0	
5:02	38.35	13.19	120.9	4.925	0	0	0	
5:03	41.47	11.93	109.3	4.924	0	0	0	
5:04	44.58	12.89	124.9	4.887	0	0	0	
5:04	47.71	12.93	129.2	4.96	0	0	0	
5:05	50.88	12.08	114.7	5.011	0	0	0	
5:06	54.04	13.05	130.2	4.927	0	0	0	
5:06	57.16	13	123.7	4.873	0	0	0	
5:07	60.25	12.35	109.2	4.883	0	0	0	
5:07	63.38	13.2	119.8	4.914	0	0	0	
5:08	66.49	12.87	115.4	4.929	0	0	0	
5:09	69.63	12.45	105.4	4.951	0	0	0	
5:09	72.77	12.3	102.8	4.944	0	0	0	
5:10	0	0	0	0	0	0	0	End Lead Slurry
5:10	0	0	0	0	0	0	0	Start Mixing Tail Slurry
5:10	75.88	12.35	104	4.855	0	0	0	
5:11	78.98	13.38	134.6	4.869	0	0	0	
5:11	82.01	14.44	170.4	4.74	0	0	0	
5:12	84.97	14.7	195.5	4.723	0	0	0	
5:13	87.94	15.24	210.4	4.646	0	0	0	
5:13	90.87	14.93	186.4	4.619	0	0	0	
5:14	93.81	15.04	190.8	4.673	0	0	0	
5:14	96.81	14.85	176.7	4.754	0	0	0	
5:15	99.84	14.68	168.4	4.77	0	0	0	
5:16	102.9	14.53	146.5	4.8	0	0	0	
5:16	105.9	13.53	112.3	4.811	0	0	0	
5:17	0	0	0	0	0	0	0	Drop Top Plug
5:17	0	0	0	0	0	0	0	[CumVol]=107.1 bbl
5:17	0	0	0	0	0	0	0	Reset Volume
5:17	3147E-6	11.35	4.163	1688E-5	0	0	0	
5:18	3956E-6	11.42	-.6784	7283E-10	0	0	0	
5:18	3956E-6	11.47	-.2763	3143E-14	0	0	0	
5:19	3956E-6	11.46	-.2512	1356E-18	0	0	0	
5:19	3956E-6	11.44	-.4511	585E-22	0	0	0	
5:20	3956E-6	11.44	-7041E-5	2524E-27	0	0	0	
5:21	.2083	10.96	7.742	.5463	0	0	0	
5:21	2.021	8.983	95.48	4.728	0	0	0	

ORIGINAL

Well	Field	Service Date	Customer	Job Number
ALDERMAN #3	HUGOTON	10/22/97	MOBIL DRILLING	20026617

Time (24 hr clock)	CumVol (bbl)	Density U1 (ppg)	Pressure U1 (psi)	TotFlowrate (bpm)				Message
5:22	5.076	8.357	83.65	4.831	0	0	0	
5:23	8.186	8.114	99.69	4.888	0	0	0	
5:23	11.23	8.151	113.1	4.72	0	0	0	
5:24	14.21	8.167	140.4	4.678	0	0	0	
5:25	17.17	8.164	169.9	4.639	0	0	0	ORIGINAL
5:25	20.1	8.173	197.2	4.615	0	0	0	
5:26	23.05	8.247	219.1	4.638	0	0	0	
5:26	25.97	8.228	245.6	4.595	0	0	0	
5:27	28.88	8.201	267.3	4.553	0	0	0	
5:28	31.49	8.229	261	2.907	0	0	0	
5:28	32.96	8.275	264.3	2.275	0	0	0	
5:29	34.4	8.26	265.8	2.262	0	0	0	
5:30	35.83	8.102	275.5	2.252	0	0	0	
5:30	37.27	8.101	280.9	2.261	0	0	0	
5:31	38.7	8.281	285	2.258	0	0	0	
5:32	40.13	8.208	286.1	2.238	0	0	0	
5:32	41.56	8.109	295	2.251	0	0	0	
5:33	41.93	8.401	1335	242E-5	0	0	0	
5:33	41.93	8.395	1239	3711E-6	0	0	0	
5:34	41.93	8.385	474.3	1618E-10	0	0	0	
5:34	0	0	0	0	0	0	0	Bump Top Plug
5:35	41.93	8.412	453.8	6981E-15	0	0	0	

Post Job Summary

Average Pump Rates, bpm

Slurry	N2	Mud	Maximum Rate
4.5	0	0	5

Volume of Fluid Injected, bbl

Total Slurry	Mud	Spacer	N2
107	0	25	0

Treating Pressure Summary, psi

Maximum	Final	Average	Bump Plug to	Breakdown
1332	600	200	0	136

Breakdown Fluid

Type	Volume	Density
	11 bbl	0 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement
0 %	0 bbl	42 bbl

☑ Cement Circulated to Surface? Volume 31 bbl

☐ Washed Thru Perfs To 0 ft

Customer or Authorized Representative	Dowell Supervisor		
Marvin Harvey	JEFF DISEKER	☐ CirculationLost	☑ Job Completed

STATE CORPORATION COMMISSION

FEB 17 1998

CONSERVATION DIVISION

Schlumberger
Dowell

Cementing Service Report

ORIGINAL

Customer	Job Number
MOBIL DRILLING	20026618

Well	Location (legal)	Dowell Location	Service Date
Alderman 3	Sec. 11-33S-35W	Ulysses, KS	10/21/97

Field	Formation Name/Type	Deviation	Bit Size	Well MD	Well TVD
Hugoton	Chase	0 °	7.88 in	2,954 ft	2,954 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Stevens	Kansas	0 psi	95 °F	85 °F	0 psi/ft

Rig Name	Drilled For	Service Via
NORSEMAN 4	Gas	Land

Offshore Zone	Well Class	Well Type
	New	Development

Drilling Fluid Type	Max. Density	Plastic Viscosity
Bentonite	9.3 lb/gal	33 cp

Service Line	Job Type
Cementing	Cem Prod Casing

Max. Allowed Tubing Pressure	Max. Allowed Ann. Pressure	WellHead Connection
2500 psi	0 psi	Single cement head

Service Instructions

Safely deliver & perform Longstring Cement job with materials & equipment listed below. Per clients instructions.
Loc Code 63118
Acc Code 4903
I.D. MTHARVEY
Total Field Price $6830.28

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
2944	5.5	14	USS50	8rd
0	0	0		

Tubing/Drill Pipe

Depth,	Size, in	Weight, lb/ft	Grade	Thread
0	0	0		
0	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	71 bbl	None	0 ft
Tubing Vol.	**Casing Vol.**	**Annular Vol.**	**OpenHole Vol**
0 bbl	72 bbl	117 bbl	0 bbl

Casing/Tubing Secured ☑	1 Hole Volume Circulated prior to Cementing ☐
Lift Pressure: 1735 psi	
Pipe Rotated ☐	Pipe Reciprocated ☐

No. Centralizers: 15	Top Plugs: 1	Bottom Plugs: 0
Cement Head Type: Single		

Job Scheduled For:	Arrived on Location:	Leave Location:
10/30/97 1:30	10/30/97 1:30	10/30/97 5:30

Casing Tools

Shoe Type:	Guide
Shoe Depth:	2944 ft
Stage Tool Type	
Stage Tool Depth:	0 ft
Collar Type:	Auto-Fill
Collar Depth:	2905 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)	Reset Volume (bbl)	TotFlowrate (bpm)			Message
3:52	0	0	0	0	0	0	0	START ACQUISITION
3:52	0	-6.25	-3636	0	0	0	0	
3:52	1844E-5	8.41	7472E-12	1844E-5	1763E-6	0	0	
3:53	1853E-5	8.41	7472E-12	1853E-5	6312E-10	0	0	
3:53	1853E-5	8.41	7472E-12	1853E-5	226E-12	0	0	
3:54	1853E-5	8.41	7472E-12	1853E-5	8091E-17	0	0	
3:54	8268E-5	8.41	7472E-12	8268E-5	.6513	0	0	
3:55	.2498	8.41	2501	.2498	4755E-5	0	0	
3:55	.2559	8.41	3667	.2559	4424E-8	0	0	
3:56	.2559	8.41	229.6	.2559	1584E-11	0	0	
3:56	.2559	8.411	52.3	.2559	567E-14	0	0	
3:57	.2559	8.41	45.52	.2559	203E-17	0	0	
3:57	0	0	0	0	0	0	0	Start Pumping Water
3:57	.5802	8.41	163.1	.5802	3.126	0	0	
3:58	3.182	8.328	259.6	3.182	5.748	0	0	
3:58	6.146	8.276	257.7	6.146	5.671	0	0	
3:59	9.019	8.329	264.1	9.019	5.681	0	0	
3:59	11.87	8.359	265	11.87	5.635	0	0	
4:00	14.72	8.361	268.7	14.72	5.69	0	0	
4:00	17.57	8.343	271.9	17.57	5.671	0	0	
4:01	20.43	8.344	275.3	20.43	5.692	0	0	
4:02	23.29	8.336	277.5	23.29	5.679	0	0	

Well		Field		Service Date	Customer	Job Number
Alderman #3		Hugoton		10/21/97	MOBIL DRILLING	20026618

Time	CumVol	Density	Pressure U1	Reset Volume	TotFlowrate			Message
24 hr clock	bbl	ppg	psi	bbl	bpm			
4:02	0	0	0	0	0	0	0	[Reset Volume]=0 bbl
4:02	0	0	0	0	0	0	0	Start Mixing Lead Slurry
4:02	26.14	11.95	320.7	1.326	5.659	0	0	
4:03	29	11.5	299.3	4.187	5.697	0	0	
4:03	31.85	11.41	281.4	7.039	5.664	0	0	
4:04	34.72	12.77	289.1	9.906	5.678	0	0	ORIGINAL
4:04	37.58	11.75	249.3	12.76	5.658	0	0	
4:05	40.44	11.44	232.8	15.62	5.699	0	0	
4:05	43.3	11.4	217	18.48	5.678	0	0	
4:06	46.16	11.42	205	21.34	5.701	0	0	
4:06	49.03	11.41	190.7	24.22	5.695	0	0	
4:07	51.89	11.6	177.1	27.07	5.698	0	0	
4:07	54.75	11.56	161.2	29.94	5.695	0	0	
4:08	57.61	11.42	146	32.79	5.673	0	0	
4:08	60.47	11.44	148.2	35.65	5.692	0	0	
4:09	63.33	11.44	147	38.51	5.657	0	0	
4:09	66.19	11.51	149.7	41.37	5.691	0	0	
4:10	69.05	11.45	145.9	44.23	5.671	0	0	
4:10	71.9	11.57	154	47.09	5.694	0	0	
4:11	74.77	11.57	149.7	49.95	5.637	0	0	
4:11	77.59	11.39	148	52.77	5.648	0	0	
4:12	80.43	11.48	145.6	55.61	5.63	0	0	
4:12	83.25	11.63	154.2	58.44	5.647	0	0	
4:13	86.1	11.43	146.1	61.28	5.657	0	0	
4:13	88.95	11.69	149.1	64.13	5.654	0	0	
4:14	91.79	11.48	148.1	66.98	5.663	0	0	
4:14	94.63	11.81	154.4	69.81	5.63	0	0	
4:15	97.47	11.58	150.9	72.65	5.648	0	0	
4:15	100.3	11.49	150.3	75.48	5.624	0	0	
4:16	103.1	11.2	146	78.33	5.657	0	0	
4:16	106	11.58	150.2	81.17	5.631	0	0	
4:17	108.8	11.4	147	84.01	5.666	0	0	
4:17	111.7	11.51	151.7	86.86	5.639	0	0	
4:18	114.5	11.23	146.5	89.7	5.675	0	0	
4:18	117.4	11.57	149.1	92.56	5.662	0	0	
4:19	120.2	11.72	153.5	95.41	5.671	0	0	
4:19	123.1	11.48	145.8	98.26	5.679	0	0	
4:19	0	0	0	0	0	0	0	[Reset Volume]=0 bbl
4:19	0	0	0	0	0	0	0	Start Mixing Tail Slurry
4:20	125.9	14.62	201.3	2.456	5.607	0	0	
4:20	128.7	14.84	227.9	5.275	5.611	0	0	
4:21	131.6	15.08	228.5	8.107	5.598	0	0	
4:21	134.4	14.98	227.6	10.93	5.611	0	0	
4:22	137.2	14.84	227	13.74	5.603	0	0	
4:22	140	14.84	224.9	16.56	5.601	0	0	
4:23	142.8	14.94	228.2	19.37	5.592	0	0	
4:23	145.7	14.96	219.1	22.2	5.615	0	0	
4:24	147.2	13.56	29.85	23.73	6296E-5	0	0	
4:24	147.3	12.88	63.7	23.85	1.4	0	0	
4:25	149.3	9.726	256.7	25.87	5.19	0	0	
4:25	152	9.161	256	28.5	5.224	0	0	
4:26	154.5	8.764	168.7	31.09	3.817	0	0	
4:26	154.8	8.759	30.28	31.34	2153E-6	0	0	
4:27	154.8	8.817	27.31	31.34	7707E-10	0	0	

Well	Field	Service Date	Customer	Job Number
Alderman #3	Hugoton	10/21/97	MOBIL DRILLING	20026618

Time	CumVol	Density	Pressure U1	Reset Volume	TotFlowrate			Message
24 hr clock	bbl	ppg	psi	bbl	bpm			
4:27	154.8	8.729	18.29	31.34	2759E-13	0	0	
4:28	154.8	8.617	33.08	31.37	.729	0	0	
4:28	157	8.932	135.7	33.57	5.745	0	0	
4:29	159.9	8.687	132	36.49	5.926	0	0	
4:29	162.9	8.758	127.5	39.46	5.887	0	0	
4:30	165.9	8.716	125.4	42.42	5.871	0	0	
4:30	0	0	0	0	0	0	0	[Reset Volume]=12 bbl
4:30	168.8	8.663	123.7	14.06	5.857	0	0	
4:31	171.8	8.639	123	17.02	5.857	0	0	
4:31	174.7	8.682	124.7	19.98	5.889	0	0	
4:32	177.7	8.639	123.8	22.93	5.852	0	0	ORIGINAL
4:32	180.6	8.639	123	25.87	5.865	0	0	
4:33	183.6	8.608	144.4	28.82	5.874	0	0	
4:33	186.5	8.66	180	31.77	5.816	0	0	
4:34	189.5	8.678	205.5	34.7	5.816	0	0	
4:34	192.4	8.639	231	37.62	5.817	0	0	
4:35	195.3	8.7	262.4	40.54	5.789	0	0	
4:35	198.2	8.659	279.9	43.46	5.77	0	0	
4:36	201.1	8.64	305.6	46.36	5.753	0	0	
4:36	204	8.635	345	49.25	5.743	0	0	
4:37	206.9	8.661	396.6	52.13	5.736	0	0	
4:37	209.8	8.642	448.1	55	5.691	0	0	
4:38	212.6	8.646	451.6	57.85	4.924	0	0	
4:38	214.7	8.693	473.5	59.89	3.943	0	0	
4:39	216.6	8.737	512.9	61.87	3.921	0	0	
4:39	218.6	8.725	544.8	63.84	3.929	0	0	
4:40	220.6	8.713	578.2	65.81	3.911	0	0	
4:40	222.3	8.586	560.4	67.52	2.273	0	0	
4:41	223.4	8.681	569.4	68.61	2.144	0	0	
4:41	224.4	8.642	585.3	69.69	2.112	0	0	
4:42	225.5	8.684	607.9	70.73	2.046	0	0	
4:42	226.5	8.71	622.4	71.75	2.008	0	0	
4:43	227.1	8.63	1444	72.34	4277E-5	0	0	Bump Top Plug
4:43	227.1	8.713	1445	72.34	1531E-8	0	0	
4:44	227.1	8.709	293.4	72.34	5482E-12	0	0	
4:44	227.1	8.72	36.5	72.34	1963E-15	0	0	Bleed Off Pressure

Post Job Summary

Average Pump Rates, bpm

Slurry	N2	Mud	Maximum Rate
5	0	0	5.7

Volume of Fluid Injected, bbl

Total Slurry	Mud	Spacer	N2
122	0	0	0

Treating Pressure Summary, psi

Maximum	Final	Average	Bump Plug to	Breakdown
625	600	300	1445	0

Breakdown Fluid

Type	Volume	Density
	0 bbl	0 lb/gal

Avg. N2 Percent	Designed Slurry Volume	Displacement
0 %	0 bbl	71 bbl

☐ Cement Circulated to Surface? Volume 0 bbl

☐ Washed Thru Perfs To 0 ft

Customer or Authorized Representative	Dowell Supervisor		
Marvin Harvey	Dave Brawley	☐ CirculationLost	☑ Job Completed

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FEB 17 1998