

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 Persons: 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. _____

10-31-97 11-4-97 11-26-97
Spud Date Date Reached TD Completion Date

API NO. 15- 189-222400000

County Stevens

- NW - SE - SE Sec. 13 Twp. 34 Rge. 36 X E

1280 Feet from S (circle one) Line of Section

1250 Feet from E (circle one) Line of Section

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

Lease Name Gregg Unit Well # 3

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3024 KB 3033

Total Depth 3070 PBTD 3020

Amount of Surface Pipe Set and Cemented at 716 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 AH.1, 5-7-98 U.C.
(Data must be collected from the Reserve Pit)

STATE COMMISSION

2-17-98
Chloride content 8,000 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 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

8-13.kcc

K.C.C. OFFICE USE ONLY		
F	<input type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
		<input type="checkbox"/> NGPA
		<input type="checkbox"/> Other (Specify)



Operator Name Mobil Oil Corporation Lease Name Gregg Unit Well # 3
 Sec. 13 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Datum</th> </tr> </thead> <tbody> <tr> <td>Glorietta</td> <td>1200</td> <td>1360</td> </tr> <tr> <td>Stone Corral</td> <td>1690</td> <td>1750</td> </tr> <tr> <td>Chase</td> <td>2651</td> <td>3008</td> </tr> <tr> <td>Council Grove</td> <td>3008</td> <td>--</td> </tr> </tbody> </table>	Name	Top	Datum	Glorietta	1200	1360	Stone Corral	1690	1750	Chase	2651	3008	Council Grove	3008	--
Name	Top		Datum														
Glorietta	1200		1360														
Stone Corral	1690		1750														
Chase	2651	3008															
Council Grove	3008	--															
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																

List All E.Logs Run:
 Array Induction Linear Correlation
 Compensated Neutron Litho Density
 Natural Gamma Ray Spectroscopy

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#	716	Class C Class C	240 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	3060	Class C Class C	225 125	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				

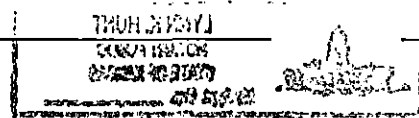
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 SPF	2654-2660	Acid: 1,000 gals 7.5% HCL	
	2720-2735	Fract: 30,000 gals WF130 in 80q foam	
	2780-2790	93,680 lbs 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. 11-21-97	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 169 Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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: 2654 to 2790



CEMENTING SERVICE REPORT

Schlumberger
Dowell

TREATMENT NUMBER: 2002 1118
DATE: 11-1-97
DISTRICT: 11155005

DS-498-A PRINTED IN U.S.A.

WELL NAME AND NO. **#1-3** LOCATION (LEGAL) **Sec 13-34s-36w** RIG NAME **Wesman Drilling #2**
 FIELD-POOL **Winnon** FORMATION **St. Louis** WELL DATA: BIT SIZE **2 1/4** CSG/Liner Size **8 1/2** BOTTOM **710** TOP **710**
 COUNTY/PARISH **St. Louis** STATE **Mo.** API. NO. **43** TOTAL DEPTH **710** WEIGHT **34**
 NAME **Mobil Oil Corp** MUD TYPE **USCS** GRADE **USCS** FOOTAGE **710**
 AND **USCS** MUD DENSITY **8.8** LESS FOOTAGE SHOE JOINT(S) **38** MUD VISC. **43** Disp. Capacity **43**

ORIGINAL
ZIP CODE

SPECIAL INSTRUCTIONS

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE **295** PSI CASING WEIGHT = SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT **070** PSI BUMP PLUG TO **070** PSI
 ROTATE RPM **070** RECIPROCATATE FT **070** No. of Centralizers

Head & Plugs TBG D.P. SQUEEZE JOB
 Double Single Swage Knockoff
 NEW USED
 TOOL TYPE DEPTH TAIL PIPE: SIZE DEPTH TUBING VOLUME CASING VOL. BELOW TOOL TOTAL ANNUAL VOLUME

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
0603	1150										
0605	0		25		5.6	H ₂ O					
0609	100		81		5.6	cmt	12.8				
0620	30		110		5.6	cmt	12.8				
0624	100		33		5.6	cmt	14.6				
0628	131		73		5.6	cmt	14.6				
0630	0										
0632	0		43'		4	H ₂ O					
0637	106		20		4.5	H ₂ O					
0638	122		23		4.5						
0639	170		30		4.5						
0640	200		35		2						
0643	190		40		2						
0646	1020		43		2						
0647											

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED			
			WATER	CEMENT	ADDITIVES	OTHER	BBLs	DENSITY		
1.	240	1.89	50% C	50% C	4% gal	3% crcl ₂	5% D44	4% 1029	80.7	12.8
2.										
3.	150	1.22	50% C	50% C	2.5% crcl ₂				32.5	14.0
4.										
5.										
6.										

BREAKDOWN FLUID TYPE HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO WIRELINE

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. BBLs **43**

Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE DS SUPERVISOR



ORIGINAL

Cementing Service Report

Customer MOBIL DRILLING	Job Number 20027119
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Well GREGG UNIT 3		Location (legal) 13, 34S, 36W		Dowell Location Ulysses, KS		Service Date 10/27/97		
Field HUGOTON		Formation Name/Type Dolomite		Deviation 0 °		Bit Size 7.88 in	Well MD 3,066 ft	Well TVD 3,066 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				
Offshore Zone	Well Class New	Well Type Development		Depth, ft 3061	Size, in 5.5	Weight, lb/ft 14	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 Prod Casing		Depth, ft 0	Size, in 0	Weight, lb/ft 0	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's request. Loc #6319100 Acc. Code 4903 I.D. JLLASITE Field Est. \$7746.60				Top, ft 0	Bottom, ft 0	spf 0	No. of Shots 0	Total Interval 0 ft
				Treat Down Casing	Displacement 73.7 bbl	Packer Type	Packer Depth 0 ft	
				Tubing Vol. 0 bbl	Casing Vol. 74.7 bbl	Annular Vol. 0 bbl	Open Hole Vol 0 bbl	
				Casing Tools	Squeeze Job			
				Shoe Type: Guide	Squeeze Type	Shoe Depth: 3061 ft	Tool Type:	
No. Centralizers: 10	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: Auto-Fill	Tail Pipe Depth: 0 ft				
Job Scheduled For: 11/4/97 7:00	Arrived on Location: 11/4/97 7:00	Leave Location:	Collar Depth: 3022 ft	Sqz Total Vol: 0 bbl				
Casing/Tubing Secured <input type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>	Lift Pressure: 665 psi	Pipe Rotated <input type="checkbox"/>	Pipe Reelprecated <input type="checkbox"/>	Shoe Type: Guide	Squeeze Type	Shoe Depth: 3061 ft	
No. Centralizers: 10	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: Auto-Fill	Tail Pipe Depth: 0 ft				
Job Scheduled For: 11/4/97 7:00	Arrived on Location: 11/4/97 7:00	Leave Location:	Collar Depth: 3022 ft	Sqz Total Vol: 0 bbl				
Time 24 hr clock	CumVol bbl	Density ppg	Pressure U1 psi	Total Flowrate bpm				Message
8:33	0	0	0	0	0	0	0	START ACQUISITION
8:33	0	-6.45	-3693	0	0	0	0	
8:33	0	0	0	0	0	0	0	Pressure Test Lines
8:34	.2179	8.267	1519	4914E-5	0	0	0	
8:34	0	0	0	0	0	0	0	Bleed Off Pressure
8:35	.2238	8.242	91.95	2292E-9	0	0	0	
8:36	0	0	0	0	0	0	0	[CumVol]=.2238 bbl
8:36	0	0	0	0	0	0	0	Reset Volume
8:36	5996E-16	8.249	4.129	1553E-14	0	0	0	
8:36	0	0	0	0	0	0	0	Start Pumping Water
8:36	2.136	8.368	313.9	5.579	0	0	0	
8:37	6.351	8.335	312.1	5.592	0	0	0	
8:38	10.57	8.346	312.9	5.594	0	0	0	
8:39	14.78	8.356	317	5.59	0	0	0	
8:39	19.01	8.354	321.9	5.592	0	0	0	
8:40	23.22	8.642	338.5	5.598	0	0	0	
8:41	0	0	0	0	0	0	0	[CumVol]=25.28 bbl
8:41	0	0	0	0	0	0	0	Reset Volume
8:41	0	0	0	0	0	0	0	Start Mixing Lead Slurry
8:41	2.061	12.39	382	5.589	0	0	0	
8:42	6.276	11.19	340.8	5.592	0	0	0	

MISSION
1 FEB 17

Well			Field			Service Date		Customer		Job Number	
GREGG UNIT #3			HUGOTON			10/27/97		MOBIL DRILLING		20027119	
Time	CumVol	Density	Pressure U1	TotalFlowrate					Message		
24 hr clock	bbbl	ppg	psi	bpm							
8:42	10.5	11.36	325.7	5.592	0	0	0				
8:43	14.72	11.45	303.8	5.601	0	0	0				
8:44	18.93	11.72	276	5.591	0	0	0				
8:45	23.16	11.63	266.5	5.592	0	0	0				
8:45	27.38	11.57	238.5	5.59	0	0	0				
8:46	31.59	11.31	219.5	5.592	0	0	0		ORIGINAL		
8:47	35.81	11.5	200.2	5.593	0	0	0				
8:48	40.03	11.49	184.5	5.592	0	0	0				
8:48	44.25	11.46	168.7	5.593	0	0	0				
8:49	48.46	11.31	139.8	5.589	0	0	0				
8:50	52.68	11.55	111.2	5.595	0	0	0				
8:51	56.91	11.28	101.1	5.592	0	0	0				
8:51	61.12	11.57	100.8	5.591	0	0	0				
8:52	65.34	11.38	102.9	5.592	0	0	0				
8:53	69.55	11.43	102.4	5.59	0	0	0				
8:54	73.78	11.69	102.3	5.592	0	0	0				
8:54	77.99	11.6	97.05	5.587	0	0	0				
8:55	82.21	11.49	99	5.592	0	0	0				
8:56	86.43	11.36	96.04	5.59	0	0	0				
8:57	90.65	11.49	98.63	5.592	0	0	0				
8:57	94.86	11.47	96.53	5.593	0	0	0				
8:58	99.08	11.46	96.46	5.592	0	0	0				
8:59	103.3	11.47	96.01	5.589	0	0	0				
9:00	107.5	11.38	91.57	5.594	0	0	0				
9:01	111.7	11.5	95.25	5.595	0	0	0				
9:01	115.9	11.57	95.85	5.594	0	0	0				
9:02	0	0	0	0	0	0	0		Reset Volume		
9:02	0	0	0	0	0	0	0		[CumVol]=118.6 bbl		
9:02	0	0	0	0	0	0	0		Start Mixing Lead Slurry		
9:02	1.499	13.34	104.4	5.59	0	0	0				
9:03	5.71	14.79	179.5	5.591	0	0	0				
9:04	9.924	14.87	181.4	5.592	0	0	0				
9:04	14.14	14.76	173.7	5.583	0	0	0				
9:05	18.36	14.24	158.8	5.592	0	0	0				
9:06	22.58	13.6	123.6	5.592	0	0	0				
9:07	26.79	14.24	155.9	5.592	0	0	0				
9:07	31.02	15.2	168.5	5.592	0	0	0				
9:08	0	0	0	0	0	0	0		Shutdown		
9:08	34.07	14.91	-15.72	.1051	0	0	0				
9:08	0	0	0	0	0	0	0		[CumVol]=34.07 bbl		
9:08	0	0	0	0	0	0	0		Reset Volume		
9:12	6521E-7	8.596	-10.44	1186E-9	0	0	0				
9:12	0	0	0	0	0	0	0		Drop Top Plug		
9:12	0	0	0	0	0	0	0		Start Displacement		
9:13	.3087	8.6	18.07	2.797	0	0	0				
9:14	4.359	8.453	29.3	5.71	0	0	0				
9:14	8.653	8.436	34.02	5.714	0	0	0				
9:15	12.95	8.439	49.71	5.711	0	0	0				
9:16	17.25	8.409	52.42	5.717	0	0	0				
9:17	21.54	8.386	51.25	5.711	0	0	0				
9:17	25.84	8.456	54.32	5.718	0	0	0				
9:18	30.13	8.518	81.36	5.716	0	0	0				
9:19	34.42	8.549	108.2	5.71	0	0	0				

[Handwritten: 10/27/97]

Well		Field			Service Date		Customer		Job Number	
GREGG UNIT #3		HUGOTON			10/27/97		MOBIL DRILLING		20027119	
Time	CumVol	Density	Pressure U1	TotFlowrate				Message		
24 hr clock	bbl	ppg	psi	bpm						
9:20	38.72	8.563	159.6	5.709	0	0	0			
9:20	42.99	8.532	220.8	5.594	0	0	0			
9:21	47.19	8.439	309.1	5.591	0	0	0			
9:22	51.4	8.398	393.1	5.585	0	0	0	ORIGINAL		
9:23	55.6	8.423	481.1	5.591	0	0	0			
9:23	59.8	8.496	563.4	5.591	0	0	0			
9:24	64	8.4	632.9	5.585	0	0	0			
9:24	0	0	0	0	0	0	0	Lower Pump Rate		
9:25	67.18	8.301	569.5	1.928	0	0	0			
9:26	68.61	8.281	595.2	1.884	0	0	0			
9:26	70.03	8.214	616.2	1.887	0	0	0			
9:27	0	0	0	0	0	0	0	Lower Pump Rate		
9:27	71.1	8.195	620.8	1.063	0	0	0			
9:28	71.9	8.253	643.1	1.059	0	0	0			
9:29	72.69	8.245	655.9	1.056	0	0	0			
9:29	0	0	0	0	0	0	0	Psi. check		
9:29	73.49	8.239	666.5	1.055	0	0	0			
9:30	0	0	0	0	0	0	0	Bump Top Plug		
9:30	73.72	8.405	904.8	9497E-8	0	0	0			
9:30	0	0	0	0	0	0	0	Bleed Off Pressure		
9:31	73.72	8.409	6.827	6434E-13	0	0	0			
9:31	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			
4.5	0	0	5.6	145	0	25	0			
Treating Pressure Summary, psi					Breakdown Fluid					
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density			
665	905	150	900	0		0 bbl	0 lb/gal			
Avg. N2 Percent	Designed Slurry Volume		Displacement		<input type="checkbox"/> Cement Circulated to Surface? Volume		0 bbl			
0 %	0 bbl		73.7 bbl		<input type="checkbox"/> Washed Thru Perfs To		0 ft			
Customer or Authorized Representative			Dowell Supervisor			<input type="checkbox"/> Circulation Lost		<input checked="" type="checkbox"/> Job Completed		
Larry Love			Charley King							

FEB 17

CO. 1