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. ____

6-26-97 6-29-97 7-2-97
Spud Date Date Reached TD Completion Date

API NO. 15- 189-221830000

County Stevens

____-SE-NW-NW Sec. 34 Twp. 32S 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 Downing #1 Unit Well # 3

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2958 KB 2968

Total Depth 3018 PBTD 2962

Amount of Surface Pipe Set and Cemented at 598 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, 4-7-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 19,000 ppm Fluid volume 200 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: 10-22-97

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 10-16-97

Subscribed and sworn to before me this 16th day of October, 19 97.

Notary Public Lynn K. Hunt

Date Commission Expires 2-20-01

7-72.kcc

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 Downing #1 Unit Well # 3

Sec. 34 Twp. 32S 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:
Array Induction Micro/Resistivity/GR
Compensated Neutron Litho/Density/GR
Spectroscopy Gamma Ray
Microlog Gamma Ray
Caliper Log Gamma Ray

☒ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
Glorietta	1242	1408
Stone Corral	1704	1745
Chase	2626	2958
Council Grove	2958	--

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#	598	Class C Class C	175 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	3008	Class C Class C	200 100	3% D79 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	2697-2712	Acid: 1,000 gals 7.5% HCL	
	2740-2750	Fracd: 11,700 gals WF130 in 70q foam	
		75,000 lbs 16/30 sand	

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

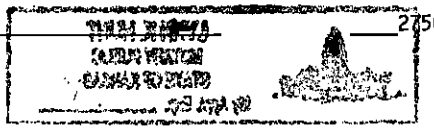
Date of First, Resumed Production, SWD or Inj. 7-24-97 | Producing Method ☒ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		70			

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 2697 2750



ORIGINAL

Cementing Service Report

15-189-22183

Schlumberger
Dowell

Customer	Job Number
MOBIL OIL CORP V390500757A	20004685

Well	Location (legal)	Dowell Location	Service Date
DOWNING 1-2	Sec 34-32S-35W	Ulysses, KS	6/26/97

Field	Formation Type	Deviation	Bit Size	Well MD	Well TVD
HUGOTON	Shale	0 °	12.3 in	603 ft	603 ft

County	State/Province	BHP	BHST	BHCT	Pore Press. Gradient
Stevens	KS	0 psi	70 °F	65 °F	0 psi/ft

Rig Name	Drilled For	Service Via
Norseman #2	Gas	Land

Water Depth	Well Class	Well Type
	101	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
1000 psi	0 psi	Single cement head

Service Instructions

Safely deliver & perform surface cement job with materials & equipment listed below. Per clients instructions.

Casing/Liner

Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
598	8.63	24	US50	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	35.3 bbl	None	0 ft

Tubing Vol.	Casing Vol.	Annular Vol.	OpenHole Vol
0 bbl	38 bbl	44 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:
5	1	0

Cement Head Type: Single

Job Scheduled For:	Arrived on Location:	Leave Location:
	6/26/97 20:30	6/26/97 23:00

Casing Tools

Shoe Type:	Guide
Shoe Depth:	598 ft
Stage Tool Type	
Stage Tool Depth:	0 ft
Collar Type:	Other
Collar Depth:	555 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 01 psi	Reset Volume bbl	TotFlowrate bpm			Message
21:27	0	0	0	0	0	0	0	START ACQUISITION
21:28	0	-6.25	-3721	0	0	0	0	
21:28	0	8.022	-2.945	0	0	0	0	
21:29	0	8.022	-1.983	0	0	0	0	
21:29	0	8.004	-2.049	0	0	0	0	
21:30	0	8.008	.1412	0	0	0	0	
21:30	0	8.02	.2895	0	0	0	0	
21:31	0	8.022	4.409	0	0	0	0	
21:31	0	8.02	-2.594	0	0	0	0	
21:32	0	8.028	-.8894	0	0	0	0	
21:32	.1679	8.039	307.2	.1679	1.082	0	0	
21:33	.2362	8.022	1751	.2362	1142E-6	0	0	
21:33	.2362	8.025	6.787	.2362	409E-9	0	0	
21:34	.2362	8.012	-.3872	.2362	1464E-13	0	0	
21:34	0	0	0	0	0	0	0	Start Pumping Water
21:34	.2362	8.019	-1.009	.2362	5242E-17	0	0	
21:35	1.714	8.026	83.12	1.714	5.541	0	0	
21:35	4.523	8.019	84.62	4.523	5.593	0	0	
21:36	7.336	8.009	88.89	7.336	5.592	0	0	
21:36	10.16	8.043	92.01	10.16	5.592	0	0	
21:37	12.97	8.012	94.82	12.97	5.591	0	0	

Well	Field	Service Date	Customer	Job Number
DOWNING #1-2	HUGOTON	6/26/97	MOBIL OIL CORP V39050075	20004685

Time 24 hr clock	CumVol bbl	Density ppg	Pressure U1 psi	Reset Volume bbl	TotFlowrate bpm			Message
								ORIGINAL
21:37	15.79	8	100.2	15.79	5.592	0	0	
21:38	18.6	8.009	108.5	18.6	5.592	0	0	
21:38	21.41	7.998	143.1	21.41	5.583	0	0	
21:39	24.23	8.07	141.3	24.23	5.591	0	0	
21:39	0	0	0	0	0	0	0	[Reset Volume]=0 bbl
21:39	27.04	10.56	158.2	.9367	5.591	0	0	
21:39	0	0	0	0	0	0	0	Start 15.0 ppa Proppant
21:40	29.85	12.9	222.7	3.748	5.591	0	0	
21:40	32.66	12.97	219.6	6.561	5.592	0	0	
21:41	35.48	12.73	209.2	9.372	5.592	0	0	
21:41	38.3	12.94	201.4	12.2	5.594	0	0	
21:42	41.11	13.08	192.4	15.01	5.592	0	0	
21:42	43.92	12.81	169.8	17.82	5.592	0	0	
21:43	46.74	12.79	171.7	20.63	5.592	0	0	
21:43	49.55	12.91	171.8	23.44	5.592	0	0	
21:44	52.37	12.72	167.5	26.27	5.596	0	0	
21:44	55.18	12.75	165.2	29.08	5.592	0	0	
21:45	58	12.76	164.1	31.89	5.592	0	0	
21:45	60.81	12.88	167.5	34.7	5.591	0	0	
21:46	63.63	12.89	163.5	37.53	5.592	0	0	
21:46	66.44	12.78	162.2	40.34	5.592	0	0	
21:47	69.26	12.77	158.6	43.15	5.592	0	0	
21:47	72.07	12.79	162.5	45.96	5.592	0	0	
21:48	74.88	12.79	160.2	48.78	5.592	0	0	
21:48	77.7	12.83	156.2	51.6	5.587	0	0	
21:49	80.51	12.89	157.2	54.41	5.591	0	0	
21:49	0	0	0	0	0	0	0	Start Mixing Tail Slurry
21:49	83.33	13.77	143.4	57.22	5.591	0	0	
21:49	0	0	0	0	0	0	0	[Reset Volume]=0 bbl
21:50	86.14	13.94	179.6	2.718	5.594	0	0	
21:50	88.95	14.62	239.4	5.529	5.592	0	0	
21:51	91.77	14.75	212	8.352	5.601	0	0	
21:51	94.58	14.16	218.6	11.16	5.593	0	0	
21:52	97.39	14.47	198.1	13.98	5.591	0	0	
21:52	100.2	14.84	214.3	16.79	5.593	0	0	
21:53	103	14.69	195.8	19.6	5.591	0	0	
21:53	105.8	14.99	212.4	22.42	5.59	0	0	
21:54	108.7	15.1	241.8	25.23	5.591	0	0	
21:54	111.5	14.25	189.2	28.05	5.592	0	0	
21:55	114.3	13.78	172.7	30.86	5.592	0	0	
21:55	115	12.8	4.874	31.55	685E-5	0	0	
21:56	115.4	11	98.58	31.99	4.525	0	0	
21:56	118.2	8.754	78.22	34.8	5.711	0	0	
21:57	121.1	8.152	89.18	37.67	5.717	0	0	
21:57	124	8.056	113.2	40.54	5.71	0	0	
21:58	126.8	8.028	135	43.41	5.71	0	0	
21:58	0	0	0	0	0	0	0	[Reset Volume]=14 bbl
21:58	129.7	8	144.4	14.19	5.711	0	0	
21:59	132.6	8.078	156.1	17.06	5.717	0	0	
21:59	135.4	8.077	187.2	19.9	5.593	0	0	
22:00	138.2	8.074	210.1	22.72	5.592	0	0	
22:00	141.1	8.076	229.5	25.53	5.592	0	0	
22:01	143.9	8.063	246.8	28.35	5.588	0	0	

Well	Field	Service Date	Customer	Job Number
DOWNING #1-2	HUGOTON	6/26/97	MOBIL OIL CORP V3905007	20004685

Time (24 hr clock)	CumVol (bbl)	Density (ppg)	Pressure U1 (psi)	Rosot Volume (bbl)	TotFlowrate (bpm)			Message
22:01	146.6	8.068	242.5	31.1	4.848	0	0	ORIGINAL
22:02	147.8	8.074	200.2	32.31	1.989	0	0	
22:02	148.8	8.065	204.4	33.31	1.986	0	0	
22:03	149.8	8.064	212.6	34.3	1.986	0	0	
22:03	150.8	8.08	218.9	35.31	1.987	0	0	
22:04	151.1	8.073	1003	35.62	3508E-6	0	0	
22:04	0	0	0	0	0	0	0	Bump Top Plug
22:04	151.1	8.027	1011	35.62	1256E-9	0	0	
22:05	151.1	8.024	583.5	35.62	4496E-13	0	0	
22:05	151.1	8.016	352.7	35.62	161E-15	0	0	

Post Job Summary

Average Pump Rates, bpm

Slurry	N2	Mud	Maximum Rate
5.5	0	0	6

Volume of Fluid Injected, bbl

Lead Slurry	Tail Slurry	Mud	Spacer	N2
91.5	91.5	0	0	0

Treating Pressure Summary, psi

Maximum	Final	Average	Bump Plug to	Breakdown
1000	1000	250	0	0

Breakdown Fluid

Type	Volume	Density
	35.3 bbl	0 lb/gal

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

☑ Cement Circulated to Surface? Volume bbl

☐ Washed Thru Perfs To 0 ft

Customer or Authorized Representative	Dowell Supervisor		
Jeff Lasiter	BRAWLEY DAVID	☐ CirculationLost	☑ Job Completed

CEMENTING SERVICE REPORT

Schlumberger
Dowell

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

TREATMENT NUMBER	DATE
2000504	6-29-97
STAGE	DS DISTRICT
	Ulysses, Ks.

WELL NAME AND NO.	LOCATION (LEGAL)
Downing #1-3	Sec 34-32s-35w
FIELD-POOL	FORMATION
Hugoton	
COUNTY/PARISH	STATE / API. NO.
Stevens	Ks.

NAME Mobil Oil Corp

AND

ORIGINAL

ADDRESS

ZIP CODE

SPECIAL INSTRUCTIONS

RIG NAME: Norseman #2

WELL DATA:		BOTTOM	TOP		
BIT SIZE 7 7/8	CSG/Liner Size	5½			
TOTAL DEPTH 3018	WEIGHT	14			
☒ ROT ☐ CABLE	FOOTAGE	3008			
MUD TYPE	GRADE	J55 S0			
☐ BHST ☐ BHCT	THREAD	8rd			
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	47			TOTAL
MUD VISC.	Disp. Capacity	72.3			

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

Float	TYPE Insert Float valve		Stage Tool	TYPE	
	DEPTH 2961			DEPTH	
SHOE	TYPE cmt. Nose			TYPE	
	DEPTH 3008			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 1774 PSI CASING WEIGHT ÷ SURFACE AREA (3.14 × R²)

PRESSURE LIMIT PSI BUMP PLUG TO 1215 PSI

ROTATE RPM RECIPROCATE FT No. of Centralizers

JOB SCHEDULED FOR TIME: 1000 DATE: 6-29

ARRIVE ON LOCATION TIME: 1000 DATE: 6-29

LEFT LOCATION TIME: 1430 DATE: 6-29

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
1219	3000							PRE-JOB SAFETY MEETING & PSI test
1219		0	35		5.6	H2O		start H2O ahead
1226		150	98		5.6	cmt	11.5	start lead cmt.
1235		110		53	5.6	cmt	11.5	PSI check
1240		120	74		5.6	cmt	14.8	start tail cmt.
1243		215		15	5.6	cmt	14.8	PSI check
1245		0						shutdown wash pump lines drop top plug
1248		0	72.2		5.7	H2O		start displacement
~~1255~~ 1255		42		30	5.7	H2O		PSI check
1257		78		40	5.7			" "
1259		225		50	5.5			" "
1300		470		60	5.5			" "
1301		602		65	2			lower rate
1303		575		70	2			PSI check
1304		591		71	2			" "
1305		1215		72.2	2			bump top plug
								bleed psi off check float + holding
								end job

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBLS	SLURRY MIXED DENSITY
1.	200	2.75	class C + 3% D79 + .2% D46 + ¼#/D29	97.9	11.5
2.					
3.	100	1.37	class C + 2% B28 + 2% calcl + .6% D60 + .2% D46 + ¼#/D29	24.3	14.8
4.					
5.					
6.					

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE MAX. MIN:
☐ HESITATION SQ. ☐ RUNNING SQ.	CIRCULATION LOST	☐ YES ☒ NO	Cement Circulated To Surf. ☐ YES ☒ NO Bbls.
BREAKDOWN PSI FINAL PSI	DISPLACEMENT VOL.	72.2 Bbls	TYPE OF WELL ☐ OIL ☒ GAS ☐ STORAGE ☐ INJECTION ☐ BRINE WATER ☐ WILDCAT
Washed Thru Perfs ☐ YES ☒ NO TO FT.	MEASURED DISPLACEMENT ☒	☐ WIRELINE	
PERFORATIONS TO TO TO TO	CUSTOMER REPRESENTATIVE J. Lasiter		DS SUPERVISOR J. Esquivel