

ORIGINAL 11-12-96

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 189-220910000

County Stevens
NE SW SE Sec. 13 Twp. 32S Rge. 37 X W

1250 Feet from S/N (circle one) Line of Section
1630 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. Wilson #1 Unit Well # 4

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 3115 KB 3124

Total Depth 2999 PBTD 2945

Amount of Surface Pipe Set and Cemented at 655 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 1-225-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 12,000 ppm Fluid volume 370 bbls

Dewatering method used Waste Minimization Mud System

Location of fluid disposal if hauled offsite:

Operator Name Mobil Oil Corporation

Lease Name Parker Est. #1-2 SWDW License No. 5208

SW Quarter Sec. 19 Twp. 34 S Rng. 36 E/W

County Stevens Docket No. D-23,898

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
 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. _____

8-2-96 8-5-96 9-10-96
Spud Date Date Reached TD Completion Date

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 11-6-96

Subscribed and sworn to before me this 6th day of November, 19 96.

Notary Public Dana S. Bailey

Date Commission Expires August 30, 1999

6-199.kcc

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)

NOTARY PUBLIC - State of Kansas
DANA S. BAILEY
My Appt. Exp. 8-30-99

SIDE TWO

Operator Name Mobil Oil Corporation Lease Name H. Wilson #1 Unit Well # 4
 Sec. 13 Twp. 32S Rge. 37 East County Stevens
 West

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 type="checkbox"/> Log Formation (Top), Depth and Datums <input type="checkbox"/> Sample Name Top Datum
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
List All E.Logs Run: NO LOGS RUN		

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#	655	Class C Class C	210 150	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2990	Class C Class C	150 75	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
1 SPF	2642-2652	Acid: 1,000 gals 7.5% HCL	
	2676-2686	Fract: 27,500 gals 20# Crosslink gel	
	2726-2736	137,000 lbs 12/20 Brady Sand	
	2778-2798		

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. 9-6-96	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas 290 Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: METHOD OF COMPLETION Production Interval
 Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 2642
 (If vented, submit ACO-18.) Other (Specify) 2798

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER

03-12-2530

DATE

2 Aug 96

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

WELL NAME AND NO. Wilson H #1-4		LOCATION (LEGAL) Sec. 13-32S-37W		RIG NAME: Norsman #2	
FIELD-POOL Hugoton		FORMATION Surface		WELL DATA:	
COUNTY/PARISH Stevens		STATE Kansas		APL. NO.	
NAME Mobil EEP Co.		BIT SIZE 12 1/4		CSG/Liner Size 8 5/8	
AND		TOTAL DEPTH 660		WEIGHT 24#	
ADDRESS		MUD TYPE USS-50		GRADE 8RD	
ZIP CODE		MUD DENSITY 6.12		LESS FOOTAGE SHOE JOINT(S) 39	
SPECIAL INSTRUCTIONS		MUD VISC. 39		DISP. CAPACITY	
Safely cement 8 5/8" surface casing as directed by the client		NOTE: Include Footage From Ground Level To Head In Disp. Capacity		TOTAL 39	

ORIGINAL

IS CASING/TUBING SECURED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		CASING WEIGHT ÷ SURFACE AREA (3.14 x R ²)		SQUEEZE JOB	
LIFT PRESSURE 270 PSI		BUMP PLUG TO 700 PSI		TYPE DEPTH	
PRESSURE LIMIT		ROTATE RPM RECIPROCATE FT No. of Centralizers		TUBING VOLUME Bbls	
TOP OR <input checked="" type="checkbox"/> NEW <input type="checkbox"/> USED		BOT OR <input type="checkbox"/> DEPTH		CASING VOL. BELOW TOOL Bbls	
ANNUAL VOLUME Bbls		TOTAL Bbls		TOTAL Bbls	

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME: 2:130	DATE: 2 Aug	TIME: 2:120	DATE: 2 Aug	TIME: 0:130	DATE: 3 Aug	
0001 to 2400											
2330										PRE-JOB SAFETY MEETING	
0023	A/A	2000	-	-	-	H ₂ O	8.34			PSI TEST LINES	
0025		60	20	-	5.5	H ₂ O	8.34			Bleed psi - Start H ₂ O ahead	
0030		130	70	19.7	5.5	LEAD	12.8			Start Lead Slurry	
0043		230	32	85	5.5	TAIL	14.6			Start Tail Slurry	
0049		0	/	117	5.5	H ₂ O	8.34			Shutdown - Drop Plug	
0052		160	39	117	5.5	H ₂ O	8.34			Start Displacement	
0058		300	/	143	5.5	H ₂ O	8.34			Cement to Surface	
0058		200	/	146	2	H ₂ O	8.34			Lower Pump Rate	
0102		600	/	156	2	H ₂ O	8.34			Bump Plug - Bleed psi	

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BBLs	DENSITY	BBLs	DENSITY		
1.	210	1.89	50/50 Pozz/c + 6% D20 + 3% S1 + 5% D44 (Bwov) + 1/4 #/sk D29	64	12.8			
2.	150	1.22	50/50 Pozz/c + 2.5% S1 + 1/4 #/sk D29	32	14.6			
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE		VOLUME		DENSITY		PRESSURE	
<input checked="" type="checkbox"/> HESITATION SQ. <input type="checkbox"/> RUNNING SQ.		CIRCULATION LOST		<input type="checkbox"/> YES <input type="checkbox"/> NO		MAX. 616 MIN: 0	
BREAKDOWN PSI FINAL		DISPLACEMENT VOL. 39 Bbls		Cement Circulated To Surf. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 14 Bbls		Bbls	
Washed thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO TO		MEASURED DISPLACEMENT 39 Bbls		<input type="checkbox"/> WIRELINE		13 Sks	
PERFORATIONS TO TO		CUSTOMER REPRESENTATIVE		DS SUPERVISOR			
		Mr. Russell Worley		James Allbee			

CEMENTING SERVICE REPORT

Schlumberger
Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 8533 DATE 8-5-96
STAGE 1 DS 03-12 DISTRICT ULYSSES, KS

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

WELL NAME AND NO. Wilson H #1-4	LOCATION (LEGAL) SEC. 13-32S-37W	RIG NAME: NORSEMAN DRILLING RIG #2
FIELD-POOL HUBERTON	FORMATION CHASE	WELL DATA:
COUNTY/PARISH Stevens	STATE K.S.	BIT SIZE 77/8 CSG/Liner Size 5 1/2
NAME Mobil Oil Corp. ORIGINAL	API. NO.	TOTAL DEPTH 2999 WEIGHT 14
AND		ROT <input checked="" type="checkbox"/> ROT <input type="checkbox"/> CABLE FOOTAGE 2990
ADDRESS		MUD TYPE GRADE USS 50
ZIP CODE		<input type="checkbox"/> BHST <input type="checkbox"/> BHCT THREAD 8rd
SPECIAL INSTRUCTIONS		MUD DENSITY LESS FOOTAGE SHOE JOINT(S)
Safely Cement 5 1/2 Long-String AS PER		MUD VISC. Disp. Capacity 71.9
CUSTOMERS INSTRUCTIONS		NOTE: Include Footage From Ground Level To Head In Disp. Capacity

IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO	TOOL TYPE	TOOL DEPTH
LIFT PRESSURE 1760 PSI CASING WEIGHT ÷ SURFACE AREA (3.14 x R ²)	TYPE Auto-fill Flapper	DEPTH 2945
PRESSURE LIMIT PSI BUMP PLUG TO 1200 PSI	TYPE CMT NICK	DEPTH 2990
ROTATE RPM RECIPROCATE FT No. of Centralizers	Head & Plugs	TOOL TYPE
	<input type="checkbox"/> Double <input type="checkbox"/> TBG <input type="checkbox"/> D.P.	DEPTH
	<input type="checkbox"/> Single <input type="checkbox"/> WEIGHT	DEPTH
	<input type="checkbox"/> Swage <input type="checkbox"/> GRADE	TAIL PIPE: SIZE DEPTH
	<input type="checkbox"/> Knockoff <input type="checkbox"/> THREAD	TUBING VOLUME Bbls
	TOP <input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL Bbls
	BOT <input type="checkbox"/> NEW <input type="checkbox"/> USED	TOTAL Bbls
	DEPTH	ANNUAL VOLUME Bbls

TIME	PRESSURE		VOLUME PUMPED SBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION	LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE		
0001 to 2400							0730	8-5-96	11:50	8-5-96
10:56		1820								
10:57		180	11	-	6.9	"				
11:00		140	75	11	"	CMT				
11:13		130	18	86	"	"				
11:17				104						
11:21						H2O				
11:21		70	71.8		6.0	"				
11:32		320		62	2.0	"				
11:33		380		65	"	"				
11:36		1200	71.8		"	"				

REMARKS

PRE-JOB SAFETY MEETING

PRESS TEST Lines

START H2O

START Ld. CMT.

START TL. CMT.

SHUT-DOWN WASH TO PIT

START DROP TOP PLUG

START DISP.

LOWER LOWER RATE

PSI CHECK

BUMP TOP PLUG

CHECK FLOAT - Bleed PSI

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BLS	DENSITY	BLS	DENSITY		
1.	150	2.75	C+3% D79+	.2% D46+	1/4 #5K D29	75	11.5	
2.								
3.	75	1.37	C+2% B28+	.2% S1+	.6% D60+	.2% D46+	1/4 #5K D29	
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX. 1200 MIN. 70
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Cement Circulated To Surf. <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
BREAKDOWN PSI FINAL	PSI	DISPLACEMENT VOL.	71.8	Bbls
Washed Thru Perfs <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE
PERFORATIONS	CUSTOMER REPRESENTATIVE	DS SUPERVISOR		
TO TO	Russell Worley	Gary A. ...		