

ORIGINAL

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

API NO. 15- 189-220090000

County Stevens
 - NW - SE - SE Sec. 13 Twp. 32S Rge. 36 X E

Operator: License # 5208

1250 Feet from (S/N) (circle one) Line of Section

Name: Mobil Oil Corporation

1250 Feet from (E/W) (circle one) Line of Section

Address P.O. Box 2173

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

2319 North Kansas Avenue

Lease Name McGill #A-1 Unit Well # 4

City/State/Zip Liberal, KS 67905-2173

Field Name Hugoton

Purchaser: Spot Market

Producing Formation Chase

Operator Contact Person: Sharon Cook

Elevation: Ground 3032 KB 3042

Phone (316) 626-1142

Total Depth 2952 PBDT 2898

Contractor: Name: Norseman Drilling Inc.

Amount of Surface Pipe Set and Cemented at 579 Feet

License: 3779

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: L. J. Reimer

If yes, show depth set NA Feet

Designate Type of Completion

If Alternate II completion, cement circulated from NA

X New Well Re-Entry Workover

feet depth to NA w/ NA sx cmt.

 Oil SWD SLOW Temp. Abd.

X Gas ENHR SIGH

 Dry Other (Core, WSW, Expl., Cathodic, etc)

Drilling Fluid Management Plan alt I 5-30-96
(Data must be collected from the Reserve Pit)

If Workover:

Chloride content 23,000 ppm Fluid volume 121 bbls

Operator:

Dewatering method used Waste Minimization Mud System

Well Name:

Location of fluid disposal if hauled offsite:

Comp. Date Old Total Depth

 Deepening Re-perf. Conv. to Inj/SWD

 Plug Back PBDT

 Commingled Docket No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No.

Operator Name Mobil Oil Corporation

Lease Name Hill #3 SWDW License No. 5208

SW Quarter Sec. 3 Twp. 33 S. Rng. 37 E/W

County Stevens Docket No. CD-112710

12-1-95 12-4-95 1-8-96
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 430 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 2-14-96

Subscribed and sworn to before me this 14th day of February, 19 96.

Notary Public Kathleen R. Poulton

Date Commission Expires August 18, 1998
6-77.kcc

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C X Wireline Log Received
C Geologist Report Received

Distribution
X KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

NOTARY PUBLIC - State of Kansas
KATHLEEN R. POULTON
My Appt. Exp. 09-18-98

Operator Name Mobil Oil Corporation Lease Name McGill #A-1 Unit Well # 4
 Sec. 13 Twp. 32S Rge. 36 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 Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)
 List All E.Logs Run:
 Array Induction Shallow Focused Electric Log
 Compensated Neutron Compensated Photo-Density
 Spectral Gamma Ray

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Name	Top	Datum
Glorietta	1272	1443
Stone Corral	1755	1802
Chase	2619	--
Council Grove	--	--

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#	579	Class C Class C	225 100	50:50 C/poz 50:50 C/poz
Production Casing	7.875	5.500	14#	2942	Class C Class C	225 75	3% D79 2% B2B

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	2680-2695	Acid: 1,000 gals 7.5% HCL	
	2732-2742	Fracd: 28,434 gals 20# Crosslink gel	
	2790-2810	140,900 lbs 12/20 Brady 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.	12-30-95	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 351 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: _____ 2680 _____ 2810

CEMENTING SERVICE REPORT

Schlumberger
Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 03-12-7920
DATE: 12-04-95
STAGE: 1 DS DISTRICT: UKS 03-12

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

WELL NAME AND NO.: MCGILL A #1-4
LOCATION (LEGAL): SEC 13-325-36W
FIELD-POOL: HUGOTON
FORMATION: CHASE
COUNTY/PARISH: STEVENS
STATE: KS
API. NO.:

RIG NAME: NORMAN #2
WELL DATA:
BIT SIZE: 7 7/8
CSG/Liner Size: 5 1/2
TOTAL DEPTH: 2942
WEIGHT: 14#
FOOTAGE: 2942
MUD TYPE: H2O
GRADE:
MUD DENSITY: 43
LESS FOOTAGE SHOE JOINT(S):
MUD VISC.: 70.7
Disp. Capacity: 70.7
TOTAL: 70.7

NAME: MOBIL OIL
AND:
ADDRESS:
ZIP CODE:

ORIGINAL

SPECIAL INSTRUCTIONS:
CEMENT PRODUCTION CASING
AS PER BELOW SCHEDULE
IS CASING/TUBING SECURED? YES NO
LIFT PRESSURE: 1735 PSI
CASING WEIGHT ÷ SURFACE AREA (3.14 x R²):
PRESSURE LIMIT: 2500 PSI
BUMP PLUG TO: PSI
ROTATE: RPM RECIPROCATE: FT No. of Centralizers

NOTE: Include Footage From Ground Level To Head In Disp. Capacity
Float Shoe: TYPE: INSERT DEPTH: 2899
Stage Tool: TYPE: GUNNERS DEPTH: 2942
Head & Plugs: TBG D.P. SQUEEZE JOB
 Double SIZE: WEIGHT: GRADE: THREAD: NEW USED
 Single SWAGE KNOCKOFF
TOOL: TYPE: DEPTH:
TAIL PIPE: SIZE: DEPTH:
TUBING VOLUME: Bbls
CASING VOL. BELOW TOOL: Bbls
TOTAL: Bbls
ANNUAL VOLUME: Bbls

JOB SCHEDULED FOR TIME: 1730 DATE: 12-4-95
ARRIVE ON LOCATION TIME: 1700 DATE: 12-4-95
LEFT LOCATION TIME: DATE: 12-4-95

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								
1700	ARRIVE							PRE-JOB SAFETY MEETING - WAIT TO RUN CASING HOOK TO CASING - RIG CIRCULATE HOLE 15 MIN
1925		2520				H2O 8.3		TEST LINES
1928		140	75	0	3.5 RPM	H2O 8.3		START WATER
1935		160	115	25	4.5 RPM	CMT 11.5		START LEAD SLURRY (SYSTEM 1)
2003		90	23	140	3.5 RPM	CMT 14.8		START TAIL SLURRY (SYSTEM 2)
2009		0		163				SHUT DOWN - WASH LINES
2016		10	60	163	5.8 RPM	H2O 8.3		DROP PLUG - START DISPLACEMENT
2027		570	10	223	2.3 RPM	H2O 8.3		LOWER RATE
2031		1200		234				PLUG DOWN BLEED PRESSURE - PLUG

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REMARKS:

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			BLS	DENSITY	BLS	DENSITY		
1.	225	2.75	CLASS C w/320 D79, .220 D46, 1/4" D29	11.5	11.5			
2.	75	1.37	CLASS C w/220 D28, 220 S4, .620 D60, .220 D46, 1/4" D29	18	14.8			
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST
 VOLUME: 70.7 Bbls
 DENSITY: YES NO
 PRESSURE: MAX. 1200 MIN: 0
 Cement Circulated To Surf. YES NO
 BREAKDOWN: PSI FINAL: PSI
 Displacement Vol. 70.7 Bbls
 Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE
 TYPE OF WELL: OIL GAS STORAGE INJECTION BRINE WATER WILDCAT
 PERFORATIONS: TO TO
 CUSTOMER REPRESENTATIVE: Mr. Jeff Lasater
 DS SUPERVISOR: Louis H Dillon

CEMENTING SERVICE REPORT

Schlumberger

Dowell

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 03-12-7911	DATE 12-02-95
STAGE 1	DS UCY3555 KS/03-12
DISTRICT	

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

WELL NAME AND NO. McGOWAN #14	LOCATION (LEGAL) SEC 13-325-36W	RIG NAME: NORDSMAN #2
FIELD-POOL HUGOTON, TX	FORMATION	WELL DATA:
COUNTY/PARISH STEUBENS, KS	STATE KS	API NO.
NAME MOBILE ORIGINAL	BIT SIZE 12 1/4	CSG/Liner Size 8 1/2
AND	TOTAL DEPTH 81	WEIGHT 24*
ADDRESS	<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE 585'
ZIP CODE	MUD TYPE 66L	GRADE
SPECIAL INSTRUCTIONS	<input type="checkbox"/> BHST	THREAD 8007
	<input type="checkbox"/> BHCT	MUD DENSITY
	MUD VISC.	Disp. Capacity 34.5
	NOTE: Include Footage From Ground Level To Head in Disp. Capacity	
	Float	Stage Tool
	TYPE BAFFLE PLATE	TYPE
	DEPTH 541	DEPTH
	SHOE	TYPE
	TYPE GUIDE	DEPTH
	DEPTH 585	
	Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> D.P.
	<input type="checkbox"/> Double	SIZE
	<input type="checkbox"/> Single	<input type="checkbox"/> WEIGHT
	<input type="checkbox"/> Swage	<input type="checkbox"/> GRADE
	<input type="checkbox"/> Knockoff	<input type="checkbox"/> THREAD
	TOOL	TYPE
	DEPTH	DEPTH
	TAIL PIPE: SIZE	DEPTH
	TUBING VOLUME	Bbls
	CASING VOL. BELOW TOOL	Bbls
	TOTAL	Bbls
	ANNUAL VOLUME	Bbls

CEMENT SURFACE CASING
AS PER BELOW SCHEDULE

IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO	LIFT PRESSURE 240 PSI	CASING WEIGHT - SURFACE AREA (3.14 x R ²)
PRESSURE LIMIT 1500 PSI	BUMP PLUG TO 1460 PSI	ROTATE RPM RECIPROCAT FT No. of Centralizers 5

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											
	ARRIVE		100 - SPOT								
	100										
0204		1080									
0205		510	16	0	4.8 BPM	H ₂ O	8.3				
0209		530		16							
0219		530	16	16	5.8 BPM	H ₂ O	8.3				
0221		650	16	26	4.5 BPM	CMT	11.2.5				
0248		640	25	24	3.5 BPM	CMT	14.6				
0248		510		149							
0249		510	26	149	4.5 BPM	H ₂ O	8.3				
0255			8	175	2.8 BPM	H ₂ O	8.3				
0259				83							

REMARKS: PRE-JOB SAFETY MEETING wait on S.S. to arrive

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	225	1.89	50/50	P02/C	w/6.76 D20, 3.78 S1, 5.76 D44, 1.44 D29	98	11-12.5	
2.	100	1.22	50/50	P02/C	w/2.57 S1, 1.44 D29			
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX. 1460	MIN. 9
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input type="checkbox"/> NO	Cement Circulated To Surf. <input type="checkbox"/> YES <input type="checkbox"/> NO	70 5/8 24 Bbls
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL. 34.5	Bbls
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT.	MEASURED DISPLACEMENT <input type="checkbox"/>	<input type="checkbox"/> WIRELINE	
PERFORATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS SUPERVISOR	
			Mr. Tom Dunning	Louis H Dillon	

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