

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1  
September 1999  
Form Must Be Typed

**ORIGINAL**

Operator: License # 5208  
 Name: Exxon Mobil Oil Corporation  
 Address: P. O. Box 4358  
 City/State/Zip: Houston, TX 77210-4358  
 Purchaser: \_\_\_\_\_  
 Operator Contact Person: Beverly Roppolo  
 Phone: (713) 431-1701  
 Contractor: Name: Schlumberger  
 License: N.A.  
 Wellsite Geologist: N.A.  
 Designate Type of Completion:  
 \_\_\_\_\_ New Well \_\_\_\_\_ Re-Entry  Workover  
 Oil \_\_\_\_\_ SWD \_\_\_\_\_ SIOW \_\_\_\_\_ Temp. Abd.  
 Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW  
 \_\_\_\_\_ Dry \_\_\_\_\_ Other (Core, WSW, Expl., Cathodic, etc)  
 If Workover/Re-entry: Old Well Info as follows:  
 Operator: Mobil Oil Corporation  
 Well Name: Morford #2 Unit, Well #2  
 Original Comp. Date: 7-7-95 Original Total Depth: 2943'  
 \_\_\_\_\_ Deepening \_\_\_\_\_ Re-perf. \_\_\_\_\_ Conv. to Enhr./SWD  
 \_\_\_\_\_ Plug Back \_\_\_\_\_ Plug Back Total Depth  
 \_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 \_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 \_\_\_\_\_ Other (SWD or Enhr.?) \_\_\_\_\_ Docket No. \_\_\_\_\_  
11-20-99 6-5-95 12-3-99  
 Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 189-21935-0001  
 County: Stevens  
NE SW SW Sec. 27 Twp. 34 S. R. 36  East  West  
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:  
 (circle one) NE SE NW (SW)  
 Lease Name: Morford #2 Unit Well #: 2  
 Field Name: Hugoton  
 Producing Formation: Chase  
 Elevation: Ground: 3044 Kelly Bushing: 3053  
 Total Depth: 2943 Plug Back Total Depth: 2897  
 Amount of Surface Pipe Set and Cemented at 709 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set N.A. Feet  
 If Alternate II completion, cement circulated from N.A.  
 feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.  
**Drilling Fluid Management Plan** OWWO KGR 1-29-08  
 (Data must be collected from the Reserve Pit)  
 Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
 Dewatering method used \_\_\_\_\_  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
 County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**RECEIVED  
MAY 19 2003  
KCC WICHITA**

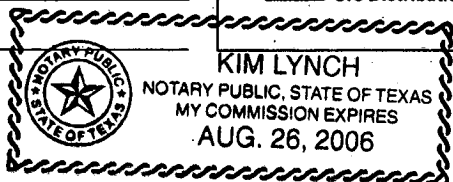
**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of 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: Beverly Roppolo  
 Title: Contract Completion Admin Date: 5/14/03  
 Subscribed and sworn to before me this 14<sup>th</sup> day of May  
2003  
 Notary Public: Kim Lynch  
 Date Commission Expires: Aug. 26, 2006

**KCC Office Use ONLY**

\_\_\_\_\_ Letter of Confidentiality Attached  
 If Denied, Yes  Date: \_\_\_\_\_  
 \_\_\_\_\_ Wireline Log Received  
 \_\_\_\_\_ Geologist Report Received  
 \_\_\_\_\_ UIC Distribution



Operator Name: Exxon Mobil Oil Corporation Lease Name: Morford #2 Unit Well #: 2  
 Sec. 27 Twp. 34 S. R. 36  East  West County: Stevens

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>U. Krider</td> <td>2680' - 2688'</td> <td></td> </tr> <tr> <td>L. Krider</td> <td>2720' - 2740'</td> <td></td> </tr> <tr> <td>Winfield</td> <td>2775' - 2795'</td> <td></td> </tr> <tr> <td>Towanda</td> <td>2844' - 2854'</td> <td></td> </tr> </tbody> </table>	Name	Top	Datum	U. Krider	2680' - 2688'		L. Krider	2720' - 2740'		Winfield	2775' - 2795'		Towanda	2844' - 2854'	
Name	Top	Datum														
U. Krider	2680' - 2688'															
L. Krider	2720' - 2740'															
Winfield	2775' - 2795'															
Towanda	2844' - 2854'															

CASING RECORD <input 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	12.250	8.625	24#	709	Class C	375	50:50 C/poz
Production	7.875	5.500	14#	2943	Class C	410	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				

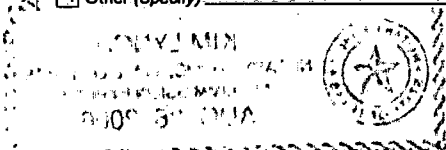
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4 spf	2680' - 2854'	Frac'd Well with 950,000scf of 80Q N2 foam @ 80 BPM.	

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 Enhr. <u>7-17-95</u>	Producing Method <input 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 Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
-----------------------------------	-----------	---------	-------------	---------------	---------

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Sumit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input checked="" type="checkbox"/> Other (Specify) _____	



# Stimulation Service Report

# ORIGINAL

**Schlumberger**  
Dowell

Customer: MOBIL DRILLING V390500757A  
Job Number: 20133444

Well: Morford 2-2      Location (legal): Sec. 8-34S-36W      Dowell Location: Ulysses, KS      Job Start: 11/29/1999

Field: Hugoton      Formation Name/Type:      Deviation: 0°      Bit Size: 0 in      Well MD: 2,897 ft      Well TVD: 2,897 ft

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

Rig Name: Key Energy      Drilled For: Gas      Service Via: Land      Casing:      Depth, ft: 2897      Size, in: 5.5      Weight, lb/ft: 14      Grade:      Thread:

Offshore Zone:      Well Class: Old      Well Type: Workover      Casing:      0      0      0

Primary Treating Fluid: 80Q Foam      Polymer Loading: 20 lb/1000gal      Fluid Density: lb/gal      Tubing:      Depth:      Size, in:      Weight, lb/ft:      Grade:      Thread:

Service Line: Fracturing      Job Type: Frac, N2 Foam/Energized      Casing:      0      0      0

Max. Allowed Tubing Pressure: 2500 psi      Max. Allowed Ann. Pressure: 0 psi      Wellhead Connection:      Perforated Intervals:      Top, ft: 2680      Bottom, ft: 2854      spf: 0      No. of Shots: 0      Total Interval: 174 ft

Service Instructions: Safely deliver & perform Foam Frac with materials & equipment listed on the Service Receipt. Per clients instructions. 7 miles on equipment, 50 miles on N2 transports.

Treat Down: Casing      Displacement: 0 bbl      Packer Type:      Packer Depth: 0 ft

Job Scheduled For:      Arrived on Location: 11/29/1999 12:30      Leave Location: 11/29/1999 15:30      Tubing Vol.: 0 bbl      Casing Vol.: 0 bbl      Annular Vol.: 0 bbl      Open Hole Vol.: 0 bbl

Time	BH Foam Q	BHinj Rate	Total Flowrate	Total N2 Rate	Total Volume	Treating Psi	Message		
24 hr clock	%	bpm	bpm	ft3/min	bbl	psi			
13:54	0	0	0	0	0	0	0	0	START ACQUISITION
13:54	0	0	0	0	0	3416	0	0	
13:55	0	0	0	0	0.063	3333	0	0	
13:56	0	0	0	0	0.063	3196	0	0	
13:57	0	0	0	0	0.063	3114	0	0	
13:58	0	0	0	0	0.063	3017	0	0	
13:59	0	0	0	0	0.063	2949	0	0	
14:00	0	0	0	0	0.063	2921	0	0	
14:01	0	0	0	0	0.063	261	0	0	
14:01	0	0	0	0	0.063	261	0	0	Start N2 tach rates
14:01	0	0	0	0	0.063	261	0	0	[Total N2 Rate]=F[Total N2 Rate 2]
14:02	0	7.82	7.82	0	2.93	22.89	0	0	
14:03	80.06	40.5	8.08	13746	11.06	366.3	0	0	
14:04	79.99	40.36	8.08	13688	19.18	847.1	0	0	
14:05	80.7	80.34	15.5	27490	32.63	1291	0	0	
14:06	80.01	80.79	16.15	27408	48.71	1653	0	0	
14:07	80.08	81.1	16.15	27536	65.01	1607	0	0	
14:08	80.19	82.17	16.28	27938	81.33	1644	0	0	
14:09	80.13	81.95	16.28	27842	97.66	1593	0	0	
14:10	80.21	82.28	16.28	27984	114	1552	0	0	
14:11	80.09	81.8	16.28	27778	130.4	1534	0	0	
14:12	80.23	82.35	16.28	28014	146.7	1543	0	0	
14:13	79.93	81.12	16.28	27490	163.1	1534	0	0	
14:14	80.02	81.5	16.28	27654	179.5	1516	0	0	
14:15	79.95	81.2	16.28	27526	195.8	1516	0	0	
14:16	79.95	81.21	16.28	27530	212.2	1516	0	0	
14:17	80.11	81.85	16.28	27802	228.5	1511	0	0	
14:18	79.97	81.3	16.28	27566	244.9	1580	0	0	

Time	BH Foam Q	BHinj Rate	Total Flowrate	Total N2 Rate	Total Volume	Treating Psi			Message
	24 hr clock	%	bpm	bpm	ft3/min	bbl	psi		
14:19	80.27	82.51	16.28	28082	261.2	1534	0	0	ORIGINAL
14:20	80.07	81.7	16.28	27738	277.6	1580	0	0	
14:21	79.94	81.82	16.41	27734	294.	1566	0	0	
14:22	79.85	80.79	16.28	27352	310.4	1571	0	0	
14:23	80.02	82.16	16.41	27876	326.8	1593	0	0	
14:24	80.13	82.59	16.41	28060	343.3	1580	0	0	
14:25	80.04	81.59	16.28	27692	359.7	1529	0	0	
14:26	80.09	81.8	16.28	27778	376.1	1525	0	0	
14:27	79.68	80.76	16.41	27282	392.6	1506	0	0	
14:28	79.98	81.34	16.28	27584	409.1	1561	0	0	
14:29	80.11	82.52	16.41	28030	425.6	1571	0	0	
14:30	80.07	81.7	16.28	27738	442.	1589	0	0	
14:31	80.12	81.92	16.28	27830	458.5	1575	0	0	
14:32	80.12	81.9	16.28	27822	474.9	1548	0	0	
14:33	79.84	81.4	16.41	27554	491.4	1580	0	0	
14:34	79.88	81.59	16.41	27634	507.8	1520	0	0	
14:35	79.86	81.49	16.41	27592	524.3	1525	0	0	
14:36	80.03	82.18	16.41	27886	540.8	1575	0	0	
14:37	100.	65.27	0.	27676	550.3	1360	0	0	
14:38	0.	0.	0.	0.	550.3	1113	0	0	
14:39	0.	0.	0.	0.	550.3	1076	0	0	
14:40	0.	0.	0.	0.	550.3	1053	0	0	
14:41	0.	0.	0.	0.	550.3	1039	0	0	
14:42	0.	0.	0.	0.	550.3	1026	0	0	
14:43	0.	0.	0.	0.	550.3	1012	0	0	
14:44	0.	0.	0.	0.	550.3	993.6	0	0	
14:45	0.	0.	0.	0.	550.3	979.9	0	0	
14:46	0.	0.	0.	0.	550.3	966.1	0	0	
14:47	0.	0.	0.	0.	550.3	952.4	0	0	
14:48	0.	0.	0.	0.	550.3	938.6	0	0	
14:49	0.	0.	0.	0.	550.3	929.5	0	0	
14:50	0.	0.	0.	0.	550.3	915.8	0	0	
14:51	0.	0.	0.	0.	550.3	902.	0	0	
14:52	0.	0.	0.	0.	550.3	892.9	0	0	
14:53	0.	0.	0.	0.	550.3	874.5	0	0	

**Post Job Summary**

Average Injection Rates, bpm				Volume of Fluid Injected, bbl				
Field	N2	CO2	Maximum Rate	Clean Fluid	Acid	Oil	CO2	N2 (scf)
16	27500	0	16	550	0	0	0	950000
Treating Pressure Summary, psi					Quantity of & placed, lb			
Breakdown	Maximum	Final	Average	ISIP	16 Min. ISIP	Total Injected	Total Ordered/Designed	
0	1764	1323	1500	1145	897	0	0	
N2 Percent	CO2 Percent	Designed Fluid Volume		Displacement	Slurry Volume	Pad Volume		Percent Pad
80 %	0 %	100000 gal		0 bbl	550 bbl	0 gal		0 %
Customer or Authorized Representative			Dowell Supervisor		Number of Stages	Fracture Gradient	<input checked="" type="checkbox"/> Job Completed <input type="checkbox"/> Screen Out	
John Rice			Dave Brawley		1	0 psi/ft		