

**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: Key Energy  
 License: N. A.  
 Wellsite Geologist: N. A.  
 Designate Type of Completion: REFRAC  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  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: HOGAN #1 UNIT, WELL #3  
 Original Comp. Date: 12-16-95 Original Total Depth: 2945'  
 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. \_\_\_\_\_  

<u>4-3-00</u>	<u>11-16-95</u>	<u>4-12-00</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 189-22018 - 02-01  
 County: Stevens  
   NW SE SE Sec. 12 Twp. 32 S. R. 37  East  West  
1250' FSL feet from (S) / N (circle one) Line of Section  
1250' FEL feet from (E) / W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE (SE) NW SW  
 Lease Name: HOGAN #1 UNIT Well #: 3  
 Field Name: Hugoton  
 Producing Formation: Chase  
 Elevation: Ground: 3098 Kelly Bushing: 3106  
 Total Depth: 2945 Plug Back Total Depth: 2911  
 Amount of Surface Pipe Set and Cemented at 586 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 N. A. w/ N. A. sx cmt.

**Drilling Fluid Management Plan**  
 (Data must be collected from the Reserve Pit) *OWWO KQR 1/22/08*  
 Chloride content N. A. ppm Fluid volume N. A. bbls  
 Dewatering method used RECEIVED  
**KANSAS CORPORATION COMMISSION**  
 Location of fluid disposal if hauled offsite: JUN 17 2003  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License No. \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. WICHITA  East  West  
 County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

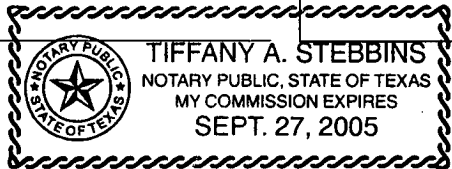
**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information 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 Completions Admin Date: 6/16/03  
 Subscribed and sworn to before me this 16 day of June,  
2003  
 Notary Public: Tiffany A. Stebbins  
 Date Commission Expires: 9-27-05

**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: HOGAN #1 UNIT Well #: 3  
 Sec. 12 Twp. 32 S. R. 37  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:	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td><input type="checkbox"/> Log</td> <td>Formation (Top), Depth and Datum</td> <td><input type="checkbox"/> Sample</td> </tr> <tr> <td>Name</td> <td>Top</td> <td>Datum</td> </tr> <tr> <td>U. KRIDER</td> <td>2638</td> <td>2648</td> </tr> <tr> <td>L. KRIDER</td> <td>2674</td> <td>2684</td> </tr> <tr> <td>WINFIELD</td> <td>2728</td> <td>2738</td> </tr> <tr> <td>TOWANDA</td> <td>2776</td> <td>2796</td> </tr> <tr> <td>U. FT. RILEY</td> <td>2828</td> <td>2843</td> </tr> </table>	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	U. KRIDER	2638	2648	L. KRIDER	2674	2684	WINFIELD	2728	2738	TOWANDA	2776	2796	U. FT. RILEY	2828	2843
<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample																				
Name	Top	Datum																				
U. KRIDER	2638	2648																				
L. KRIDER	2674	2684																				
WINFIELD	2728	2738																				
TOWANDA	2776	2796																				
U. FT. RILEY	2828	2843																				

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	12.250	8.625	24#	586	CLASS C	350	50:50 c/poz
PRODUCTION	7.875	5.500	14#	2935	CLASS C	140, 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	2638' - 2843'	FRAC'D WELL WITH 974,360 scf OF 80Q N2 FOAM @ 80BPM	

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		90 jts 2-3/8"	SN @ 2856'			
Date of First, Resumed Production, SWD or Enhr.			Producing Method			
12-15-95			<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

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  
*(If vented, Sumit ACO-18.)*  Other (Specify) \_\_\_\_\_

# Stimulation Service Report

# ORIGINAL

Customer: MOBIL DRILLING V390500757A Job Number: 20153037

Well: Hogan 1-3		Location (legal): Sec. 5-33S-37W		Dowell Location: Ulysses, KS		Job Start: 04/10/2000	
Field: Hugoton		Formation Name/Type: Chase		Deviation: 0°		BitSize: 0 in	
County: Stevens		State/Province: Kansas		BHP: 0 psi		BHST: 0 °F	
Rig Name: Key Energy		Drilled For: Gas		Service Via: Land		Casing	
Offshore Zone:		Well Class: Old		Well Type: Workover		Well MD: 0 ft	
Primary Treating Fluid: 80Q Foam		Polymer Loading: 30 lb/1000gal		Fluid Density: lb/gal		Well TVD: 0 ft	
Service Line: Fracturing		Job Type: Frac,N2Foam/Energized		BHP: 0 psi		BHCT: 0 °F	
Max. Allowed Tubing Pressure: 2500 psi		Max. Allowed Ann. Pressure: 0 psi		WellHead Connection: 5 1/2 X 4 Swage		Pore Pres Gradient: 0 psi/ft	
Service Instructions: Safely deliver & perform Foam Frac with materials & equipment listed on the Service Receipt. Per clients instructions.		Perforated Intervals		Casing		Tubing	
Job Scheduled For: 04/10/2000 6:00		Arrived on Location: 04/10/2000 12:30		Leave Location: 04/10/2000 12:30		Tubing Vol.: 0 bbl	
						CasingVol.: 0 bbl	
						AnnularVol.: 0 bbl	
						OpenHoleVol.: 0 bbl	

Time	BH Foam Q	BH Inj Rate	Tot N2	Total Flowrate	Total N2 Rate	Total Volume	Treating Psi	Message
24 hr clock	%	bpm	ft3	bpm	ft3/min	bbl	psi	
10:45	0	0	0	0	0	0	0	START ACQUISITION
10:45	0.	0.	0.	0.	0.	0.	-3745	
10:46	0.	0.	0.	0.	0.	0.	64.1	
10:46	0.	0.292	0.	0.292	0.	0.233	2747	
10:47	0.	0.146	0.	0.146	0.	0.307	3146	
10:47	0.	0.	0.	0.	0.	0.366	3068	
10:48	0.	0.	0.	0.	0.	0.366	3068	[Total N2 Rate]=F[Total N2 Rate 2]
10:48	0.	0.	0.	0.	0.	0.366	3068	Start N2 tach rates
10:48	0.	0.	0.	0.	0.	0.366	3045	
10:48	0.	0.	0.	0.	0.	0.366	3031	
10:49	0.	0.	0.	0.	0.	0.366	3017	
10:49	0.	0.	0.	0.	0.	0.366	3013	
10:50	0.	0.	0.	0.	0.	0.366	3004	
10:50	0.	0.	0.	0.	0.	0.366	2995	
10:51	100.	21.56	4077	0.	9140	0.366	375.5	
10:51	100.	21.56	4077	0.	9140	0.366	375.5	
10:51	100.	21.42	8650	0.	9080	0.366	32.05	Start Job
10:52	72.25	29.64	13218	8.23	9080	1.81	27.47	
10:52	75.45	32.57	17919	7.99	10420	5.89	146.5	
10:53	78.2	36.67	23769	7.99	12160	9.92	302.2	
10:53	79.9	39.2	30242	7.88	13280	13.91	439.6	
10:54	87.57	62.43	38699	7.76	23180	17.83	549.5	
10:54	84.45	64.79	50385	10.08	23200	21.86	705.1	
10:55	80.15	75.15	62533	14.92	25540	28.38	1103	
10:55	80.31	80.	75811	15.76	27240	36.26	1639	
10:56	79.37	81.24	89560	16.76	27340	44.45	1772	
10:56	79.37	81.24	103288	16.76	27340	52.85	1827	
10:57	80.16	80.21	117025	15.91	27260	61.13	1891	
10:57	80.06	80.54	130758	16.06	27340	69.18	1964	

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KANSAS CORPORATION COMMISSION  
JUN 17 2003  
CONSERVATION DIVISION  
WICHITA, KS

Well		Field				Service Date		Customer		Job Number	
Hogan #1-3		Hugoton						MOBIL DRILLING V39050079		20153037	
Time	BH Foam Q	BHinj Rate	Tot N2	Total Flowrate	Total N2 Rate	Total Volume	Treating Psi	Message			
24 hr clock	%	bpm	ft3	bpm	ft3/min	bbbl	psi				
10:58	80.18	80.42	144487	15.94	27340	77.24	1955	0	ORIGINAL		
10:58	80.14	80.52	158235	15.99	27360	85.35	1969	0			
10:59	80.16	80.61	172009	15.99	27400	93.42	1987	0			
10:59	80.15	80.57	185760	15.99	27380	101.5	1996	0			
11:00	80.21	80.57	199521	15.94	27400	109.5	1992	0			
11:00	80.2	80.76	213304	15.99	27460	117.6	1983	0			
11:01	80.09	80.33	227065	15.99	27280	125.6	1992	0			
11:02	79.99	80.49	241771	16.11	27300	135.	1987	0			
11:02	80.09	80.33	255479	15.99	27280	143.	1978	0			
11:03	79.94	80.43	270309	16.14	27260	152.6	1969	0			
11:03	79.97	80.57	284029	16.14	27320	160.7	1955	0			
11:04	79.92	80.69	297754	16.2	27340	168.8	1951	0			
11:04	80.	80.67	311490	16.14	27360	176.9	1951	0			
11:05	80.	80.67	325232	16.14	27360	185.	1951	0			
11:05	79.96	80.52	338986	16.14	27300	193.2	1928	0			
11:06	80.01	80.71	352752	16.14	27380	201.3	1951	0			
11:06	80.01	80.71	366510	16.14	27380	209.4	1928	0			
11:07	80.01	80.71	380273	16.14	27380	217.5	1941	0			
11:07	80.01	80.71	394029	16.14	27380	225.7	1905	0			
11:08	80.02	80.76	407800	16.14	27400	233.8	1896	0			
11:08	79.92	80.92	421581	16.25	27420	241.9	1859	0			
11:09	79.8	80.45	435330	16.25	27220	250.	1832	0			
11:09	79.83	80.59	449037	16.25	27280	258.2	1845	0			
11:10	79.95	80.48	462743	16.14	27280	266.3	1827	0			
11:10	79.83	80.59	476447	16.25	27280	274.5	1845	0			
11:11	79.95	80.48	490166	16.14	27280	282.6	1818	0			
11:11	79.95	80.48	503878	16.14	27280	290.7	1832	0			
11:12	79.96	80.52	517599	16.14	27300	298.9	1832	0			
11:12	80.01	80.48	531314	16.09	27300	307.	1822	0			
11:13	79.87	80.73	545052	16.25	27340	315.1	1822	0			
11:13	79.93	80.73	558796	16.2	27360	323.3	1818	0			
11:14	79.89	80.59	572535	16.2	27300	331.4	1832	0			
11:14	79.98	80.62	586312	16.14	27340	339.5	1822	0			
11:15	80.49	82.69	600146	16.14	28220	347.7	1832	0			
11:15	79.98	80.62	614052	16.14	27340	355.9	1818	0			
11:16	80.06	80.66	628031	16.09	27380	364.1	1818	0			
11:16	80.06	80.66	641954	16.09	27380	372.4	1822	0			
11:17	80.43	82.46	655809	16.14	28120	380.5	1809	0			
11:17	80.02	80.76	669636	16.14	27400	388.7	1813	0			
11:18	80.07	80.71	683472	16.09	27400	396.8	1804	0			
11:18	80.	80.67	697414	16.14	27360	405.	1799	0			
11:19	79.69	80.98	711363	16.45	27360	413.3	1804	0			
11:19	80.58	82.48	725223	16.02	28180	421.4	1813	0			
11:20	79.97	80.57	739085	16.14	27320	429.6	1799	0			
11:20	80.	80.67	752901	16.14	27360	437.7	1809	0			
11:21	79.98	80.62	766719	16.14	27340	445.9	1813	0			
11:21	80.29	81.89	780579	16.14	27880	454.	1809	0			
11:22	80.01	80.71	794441	16.14	27380	462.2	1795	0			
11:22	80.01	80.71	808304	16.14	27380	470.3	1809	0			
11:23	80.11	80.55	822261	16.02	27360	478.5	1804	0			
11:23	80.06	80.66	836197	16.09	27380	486.7	1809	0			
11:24	80.12	80.6	850098	16.02	27380	494.9	1799	0			
11:24	80.18	80.6	864059	15.97	27400	503.1	1795	0			
11:25	80.09	80.81	878037	16.09	27440	511.3	1795	0			

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Well		Field				Service Date		Customer		Job Number		
Hogan #1-3		Hugoton						AOBIL DRILLING V39050075		20153037		
Time	BH Foam Q	BHbj Rate	Tot N2	Total Flowrate	Total N2 Rate	Total Volume	Treating Psi	Message				
24 hr clock	%	bpm	ft3	bpm	ft3/min	bbbl	psi	ORIGINAL				
11:25	80.03	80.57	891919	16.09	27340	519.4	1781					0
11:26	79.91	80.81	906126	16.23	27380	527.7	1786					0
11:26	80.16	80.5	920068	15.97	27360	535.9	1786					0
11:27	80.64	83.35	933962	16.14	28500	544.	1804					0
11:27	100.	84.58	947993	0.	27380	550.6	1694					0
11:28	100.	70.38	962058	0.	29840	550.6	1662					0
11:28	0.	0.	974359	0.	0.	550.6	1548					0
11:29	0.	0.	974359	0.	0.	550.6	1451					0
11:29	0.	0.	974359	0.	0.	550.6	1419					0
11:30	0.	0.	974359	0.	0.	550.6	1401					0
11:30	0.	0.	974359	0.	0.	550.6	1383					0
11:31	0.	0.	974359	0.	0.	550.6	242.7					0
11:31	0.	0.	974359	0.	0.	550.6	9.16					0
11:32	0.	0.	974359	0.	0.	550.6	9.16	0				

Post Job Summary										
Average Injection Rates, bpm						Volume of Fluid Injected, bbl				
Fluid	N2	CO2	Maximum Rate			Clean Fluid	Acid	Oil	CO2	N2 (scf)
16	27350	0	16.4			550	0	0	0	974360
Treating Pressure Summary, psi						Quantity of & placed, lb				
Breakdown	Maximum	Final	Average	ISIP	18 Min. ISIP	Total Injected	Total Ordered/Designed			
0	2023	1666	1850	1529	0	0	0			
N2 Percent	CO2 Percent	Designed Fluid Volume		Displacement		Slurry Volume		Pad Volume		Percent Pad
80 %	0 %	100000 gal		64 bbl		550 bbl		0 gal		0 %
Customer or Authorized Representative			Dowell Supervisor			Number of Stages		Fracture Gradient		Job Completed
John Rice			Dave Brawley			1		0 psi/ft		<input checked="" type="checkbox"/> Job Completed <input type="checkbox"/> Screen Out

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