

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 5208
Name: Exxon Mobil Oil Corporation *
Address: P. O. Box 4358
City/State/Zip: Houston, TX 77210-4358
Purchaser: Duke Energy Trading & Marketing
Operator Contact Person: Kitty Birt
Phone: (713) 431-1898
Contractor: Name: DOWELL
License: N. A.

Wellsite Geologist: N. A.
Designate Type of Completion:
 New Well Re-Entry Workover (refrac)
 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: Keating Unit # 2, Well # 3

Original Comp. Date: 8/28/1995 Original Total Depth: 2981
~~Gas~~ FRACURE TREATED
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back 2925 Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

06/08/2001 08/06/1995 06/20/01
~~START~~ Date of START Date Reached TD Completion Date of
OF WORKOVER WORKOVER

API No. 15 - 189-21953-0001
County: Stevens
SW NE NE Sec. 7 Twp. 32 S. R. 35 East West
1250 feet from S N (circle one) Line of Section
1250 feet from E W (circle one) Line of Section

Lease Name: Keating #2 Unit Well #: 3
Field Name: Hugoton
Producing Formation: Chase

Elevation: Ground: 3022 Kelly Bushing: 3031
Total Depth: 2981 Plug Back Total Depth: 2925
Amount of Surface Pipe Set and Cemented at 591 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 REWORK 87 6/19/02
(Data must be collected from the Reserve Pit)
Chloride content N. A. ppm Fluid volume N. A. bbls
Dewatering method used _____

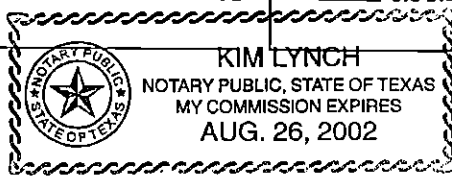
Location of fluid disposal if hauled offsite:
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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: Kitty Birt
Title: Completions Admin. Date: April 16, 2002
Subscribed and sworn to before me this 16th day of April
2002
Notary Public: Kim Lynch
Date Commission Expires: Aug. 26 2002

KCC Office Use ONLY
 Letter of Confidentiality Attached
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
KCC


KIM LYNCH
NOTARY PUBLIC, STATE OF TEXAS
MY COMMISSION EXPIRES
AUG. 26, 2002

X

Operator Name: Exxon Mobil Oil Corporation * Lease Name: Keating #2 Unit Well #: 3
 Sec. 7 Twp. 32 S. R. 35 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;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Glorietta</td> <td>1282</td> <td>1406</td> </tr> <tr> <td>Stone Corral</td> <td>1744</td> <td>1802</td> </tr> <tr> <td>Chase</td> <td>2618</td> <td>2961</td> </tr> <tr> <td>Council Grove</td> <td>2961</td> <td></td> </tr> </table>	Name	Top	Datum	Glorietta	1282	1406	Stone Corral	1744	1802	Chase	2618	2961	Council Grove	2961	
Name	Top	Datum														
Glorietta	1282	1406														
Stone Corral	1744	1802														
Chase	2618	2961														
Council Grove	2961															

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 Casing	12.250	8.625	24	591	Class C	325	50:50 c/poz
Production Casing	7.875	5.500	14	2971	Class C	225	3% D79
					Class C	175	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	2653-2663, 2686-2706, 2735-2750, 2800-2820	Frac w/ 80Q N2 foam @ plus/minus 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. (See G-2)		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 Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas <input type="checkbox"/> Vented <input checked="" type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Sumit ACO-18.)</i>	METHOD OF COMPLETION <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Other (Specify) _____	Production Interval <input type="checkbox"/> Commingled <u>2653</u> <u>2820</u>
---	--	--



Stimulation Service Report

ORIGINAL

15-189-21953-000

Customer: MOBIL OIL CORP						Job Number: 20223403			
Well: KEATING 2-3			Location (legal): SEC 7-32S-35W			Dowell Location: Ulysses, KS			Job Start: 6/18/01
Field: HUGOTON		Formation Name/Type: Chase		Deviation: 0 °	Bit Size: 0 in	Well MD: 2,925 ft		Well TVD: 2,925 ft	
County: STEVENS		State/Province: KANSAS		BHP: 0 psi	BHST: 85 °F	BHCT: 80 °F	Pore Pres Gradient: 0 psi/ft		
Rig Name		Drilled For: Gas	Service Via: Land		Casing				
Offshore Zone		Well Class: Old	Well Type: Workover		Depth, ft: 2925	Size, in: 5.5	Weight, lb/ft: 14	Grade	Thread
Primary Treating Fluid: 80Q Foam		Polymer Loading: 30 lb/1000gal	Fluid Density: lb/gal		Tubing				
Service Line: Fracturing		Job Type: Frac, N2Foam/Energized		Depth, ft: 0	Size, in: 0	Weight, lb/ft: 0	Grade	Thread	
Max. Allowed Tubing Pressure: 3000 psi		Max. Allowed Ann. Pressure: 0 psi	WellHead Connection: 5 1/2		Perforated Intervals				
Service Instructions:		Top, ft: 2653	Bottom, ft: 2706	spf: 0.5660377	No. of Shots: 30	Total Interval: 88 ft			
Pumper POD 4 N2 PCM Boom N2 Transport		2735	2750	1	15	Diameter			
		2800	2820	1	20	in			
		Treat Down: Casing		Displacement: 0 bbl	Packer Type: None		Packer Depth: 0 ft		
Job Scheduled For: 6/18/01 12:00		Arrived on Location: 6/18/01 10:30		Leave Location: 6/18/01 13:30		Tubing Vol.: 0 bbl	Casing Vol.: 0 bbl	Annular Vol.: 0 bbl	Open Hole Vol.: 0 bbl
Time	BH INJ RATE	FOAM %	N2 RATE	Pressure	Stage Volume	TOT INJ	Total Flowrate	Total Volume	Message
24 hr clock	bbl/min	%	ft3/min	psi	bbl	bbl	bbl/min	lbbl	
12:41	0	0	0	0	0	0	0	0	
12:41	0.	0.	0.	2001	0.	0.	0.	0.	
12:42	0.	0.	0.	3375	0.006	0.006	0.	0.006	RECEIVED
12:42	0	0	0	0	0	0	0	0	KANSAS CORPORATION COMMISSION
12:42	0.	0.	0.	3233	0.006	0.006	0.	0.006	
12:43	13.3	100.	5640	3182	0.006	0.321	0.	0.006	MAY 09 2002
12:43	0.	0.	0.	3168	0.006	4.43	0.	0.006	
12:44	0.	0.	0.	3136	0.006	4.43	0.	0.006	
12:44	0.	0.	0.	3118	0.006	4.43	0.	0.006	CONSERVATION DIVISION
12:45	0.	0.	0.	109.9	0.006	4.43	0.	0.006	WICHITA, KS
12:45	0.	0.	0.	128.2	0.006	4.43	0.	0.006	
12:46	3.45	9.57	140.	-13.74	0.149	4.92	3.12	0.149	
12:46	8.54	0.	0.	-50.37	3.3	8.07	8.54	3.3	
12:47	40.43	79.79	13680	119.	7.47	23.01	8.17	7.47	
12:47	40.39	80.23	13740	238.1	11.53	43.35	7.99	11.53	
12:48	0.047	100.	20.	261.	14.5	55.35	0.	14.5	
12:48	0.	0.	0.	261.	14.5	55.36	0.	14.5	
12:49	0.	0.	0.	247.3	14.5	55.36	0.	14.5	
12:49	6.98	1.35	40.	233.5	15.38	56.32	6.89	15.38	
12:50	33.17	74.81	10520	338.8	19.56	63.77	8.35	19.56	
12:50	40.62	79.89	13760	599.8	23.71	83.57	8.17	23.71	
12:51	40.67	80.14	13820	906.6	27.79	104.	8.08	27.79	
12:51	40.35	80.2	13720	1200	31.79	124.3	7.99	31.79	
12:52	40.77	80.18	13860	1493	35.81	144.8	8.08	35.81	
12:52	40.91	80.03	13880	1740	39.88	165.3	8.17	39.88	
12:53	22.79	63.75	6160	1648	43.78	185.3	8.26	43.78	
12:53	83.07	81.54	28720	1809	51.07	224.8	15.33	51.07	
12:54	83.39	81.29	28740	1841	58.89	266.7	15.61	58.89	
12:54	82.77	81.04	28440	1818	66.76	308.5	15.7	66.76	

ORIGINAL

Well		Field				Service Date		Customer		Job Number
KEATING #2-3		HUGOTON						MOBIL OIL CORP		20223403
Time	BH INJ RATE	FOAM %	N2 RATE	Pressure	Stage Volume	TOT INJ	Total Flowrate	Total Volume	Message	
24 hr clock	bbbl/min	%	ft3/min	psi	bbbl	bbbl	bpm	bbbl		
12:55	83.33	80.94	28600	1745	74.7	350.3	15.88	74.7		
12:55	83.1	80.89	28500	1712	82.71	392.1	15.88	82.71		
12:56	83.1	81.	28540	1690	90.75	434.	15.79	90.75		
12:56	83.42	80.74	28560	1662	98.78	475.9	16.07	98.78		
12:57	82.9	80.62	28340	1648	106.8	517.7	16.07	106.8		
12:57	83.19	80.8	28500	1644	114.9	559.5	15.97	114.9		
12:58	83.28	80.71	28500	1639	123.	601.3	16.07	123.		
12:58	83.38	80.73	28540	1635	131.	643.1	16.07	131.		
12:59	83.43	80.85	28600	1625	139.1	685.	15.97	139.1		
12:59	83.19	80.69	28460	1630	147.2	727.2	16.07	147.2		
13:00	83.47	80.75	28580	1630	155.3	769.1	16.07	155.3		
13:00	83.33	80.83	28560	1625	163.3	811.	15.97	163.3		
13:01	83.33	80.72	28520	1635	171.4	852.9	16.07	171.4		
13:01	83.28	80.71	28500	1625	179.4	894.6	16.07	179.4		
13:02	83.24	80.81	28520	1621	187.5	936.5	15.97	187.5		
13:02	83.33	80.72	28520	1607	195.5	978.3	16.07	195.5	RECEIVED KANSAS CORPORATION COMMISSION	
13:03	82.95	80.74	28400	1603	203.6	1020	15.97	203.6		
13:03	83.23	80.7	28480	1603	211.7	1062	16.07	211.7	MAY 09 2002	
13:04	83.14	80.79	28480	1603	219.8	1104	15.97	219.8		
13:04	83.1	80.78	28460	1603	227.8	1146	15.97	227.8		
13:05	83.14	80.79	28480	1598	235.9	1188	15.97	235.9	CONSERVATION DIVISION WICHITA, KS	
13:05	83.23	80.7	28480	1598	243.9	1229	16.07	243.9		
13:06	83.19	80.69	28460	1580	252.	1271	16.07	252.		
13:06	82.67	80.68	28280	1566	260.	1313	15.97	260.		
13:07	83.19	80.69	28460	1575	268.1	1355	16.07	268.1		
13:07	83.1	80.78	28460	1580	276.2	1396	15.97	276.2		
13:08	82.62	80.67	28260	1575	284.2	1438	15.97	284.2		
13:08	83.24	80.81	28520	1566	292.3	1480	15.97	292.3		
13:09	83.38	80.84	28580	1571	300.3	1522	15.97	300.3		
13:09	82.95	80.74	28400	1566	308.3	1564	15.97	308.3		
13:10	83.57	80.78	28620	1557	316.4	1606	16.07	316.4		
13:10	83.	80.76	28420	1557	324.4	1647	15.97	324.4		
13:11	82.29	80.48	28080	1548	332.5	1689	16.07	332.5		
13:11	83.33	80.94	28600	1557	340.6	1731	15.88	340.6		
13:12	83.38	80.84	28580	1557	348.6	1773	15.97	348.6		
13:12	83.24	80.92	28560	1548	356.7	1815	15.88	356.7		
13:13	83.42	80.74	28560	1552	364.8	1857	16.07	364.8		
13:13	83.23	80.7	28480	1552	372.8	1899	16.07	372.8		
13:14	83.24	80.81	28520	1548	380.9	1941	15.97	380.9		
13:14	83.24	80.81	28520	1552	388.9	1982	15.97	388.9		
13:15	83.24	80.81	28520	1543	397.	2024	15.97	397.		
13:15	82.86	80.72	28360	1557	405.	2066	15.97	405.		
13:16	83.28	80.82	28540	1552	413.	2108	15.97	413.		
13:16	83.24	80.81	28520	1557	421.	2150	15.97	421.		
13:17	82.77	80.7	28320	1557	429.1	2191	15.97	429.1		
13:17	83.28	80.82	28540	1557	437.1	2233	15.97	437.1		
13:18	83.28	80.82	28540	1557	445.2	2275	15.97	445.2		
13:18	83.24	80.92	28560	1552	453.2	2317	15.88	453.2		
13:19	83.33	80.83	28560	1552	461.2	2359	15.97	461.2		
13:19	83.33	80.83	28560	1552	469.3	2401	15.97	469.3		
13:20	83.29	80.93	28580	1548	477.3	2443	15.88	477.3		
13:20	83.28	80.82	28540	1548	485.3	2484	15.97	485.3		
13:21	83.28	80.71	28500	1548	493.3	2526	16.07	493.3		
13:21	83.14	80.79	28480	1534	501.4	2568	15.97	501.4		

ORIGINAL

Well		Field				Service Data		Customer		Job Number
KEATING #2-3		HUGOTON						MOBIL OIL CORP		20223403
Time	BH INJ RATE	FOAM %	N2 RATE	Pressure	Stage Volume	TOY INJ	Total Flowrate	Total Volume	Message	
24 hr clock	bbl/min	%	ft ³ /min	psi	bbl	bbl	bpm	bbl		
13:22	83.1	80.78	28460	1534	509.4	2610	15.97	509.4		
13:22	83.09	80.67	28420	1534	517.5	2652	16.07	517.5		
13:23	82.77	80.7	28320	1529	525.5	2693	15.97	525.5		
13:23	82.76	80.59	28280	1534	533.5	2735	16.07	533.5		
13:24	83.14	80.79	28480	1534	541.6	2777	15.97	541.6		
13:24	83.38	80.73	28540	1497	549.6	2818	16.07	549.6		
13:25	83.38	80.73	28540	1433	557.6	2860	16.07	557.6		
13:25	0	0	0	0	0	0	0	0		
13:25	0	0	0	0	0	0	0	0		
13:25	67.26	100.	28520	1223	0.	2895	0.	559.8		
13:26	66.84	100.	28340	1117	0.	2930	0.	559.8		
13:26	17.31	100.	7340	1035	0.	2953	0.	559.8		
13:27	0.047	100.	20.	1117	0.	2957	0.	559.8		
13:27	0	0	0	0	0	0	0	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)			
15	25700	0	16		550	0	0	0	950			
Treating Pressure Summary, psi					Quantity of & placed, lb							
Breakdown	Maximum	Final	Average	ISIP	15 Min. ISIP	Total Injected	Total Ordered/Designed					
1900	1900	1500	1500	1098	0	0	0					
N2 Percent		CO2 Percent		Designed Fluid Volume		Displacement		Slurry Volume		Pad Volume		Percent Pad
80 %		0 %		100000 gal		64 bbl		0 bbl		0 gal		0 %
Customer or Authorized Representative			Dowell Supervisor			Number of Stages		Fracture Gradient		<input checked="" type="checkbox"/> Job Completed		
Richard Lewis			Jeffrey Dutton			0		0 psi/ft		<input type="checkbox"/> Screen Cut		

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 09 2002

CONSERVATION DIVISION
WICHITA, KS