

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 (frac)
 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: Keating Unit 3, Well # 4

Original Comp. Date: 07/15/1997 Original Total Depth: 2961
~~XXX~~ FRACTURE TREATED
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back 2900 Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

05/18/2001 06/15/1997 05/25/2001
~~SPUD~~ Date of START Date Reached TD Completion Date of
OF WORKOVER WORKOVER

API No. 15 - 189-22164 - 0001
County: Stevens
NE SW SW Sec. 8 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

Proportages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Keating 3 Unit Well #: 4
Field Name: Hugoton

Producing Formation: Chase
Elevation: Ground: 3002 Kelly Bushing: 3011
Total Depth: 2961 Plug Back Total Depth: 2900
Amount of Surface Pipe Set and Cemented at 671 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.

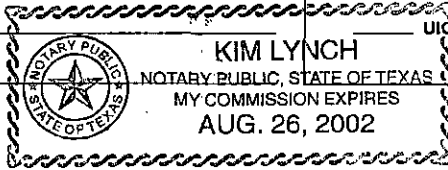
Drilling Fluid Management Plan REWORK 8/26 6/19/02
(Data must be collected from the Reserve Pit)
Chloride content N. A. ppm Fluid volume N. A. bbls
Dewatering method used _____

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 Administ. Date: April, 15, 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

X

Operator Name: Exxon Mobil Oil Corporation * Lease Name: Keating 3 Unit Well #: 4
 Sec. 8 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 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:

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Glorieta	1270	
Stone Corral	1730	
Sumner	2274	
Chase	2614	
Council Grove	2948	

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	671	Class C	275 sx	50:50 c/poz.
production	73875	5.500	14	2951	CL-C	200	3% D79
					CL-C	150	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
2 spf.	2676-86, 2725-35, 2790-2800	Frac. w/ 80Q N2 Foam @ plus/minus 80 BP	

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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity

Disposition of Gas Vented Sold Used on Lease (If vented, Sumit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval 2676
2800

ORIGINAL

15-189-22164-0001

Schlumberger

Customer: Exxon Mobil
District: ULYSSES
Representative: Richard Leibs
DS Supervisor: Jeff Dutton
Well: Keating

Job Date: 05-21-2001

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 09 2002

CONSERVATION DIVISION
WICHITA, KS

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS2 psi	SLUR RATE bbl/min	TOT SLUR bbl	N2 RATE scf/min	INJ RATE bbl/min	BH FOAM QUALITY %
05:21:2001:13:15:07	128	0.0	0.0	0	0.0	0.0
05:21:2001:13:15:12	Started PAD					
05:21:2001:13:15:12	92	0.0	0.0	0	0.0	0.0
05:21:2001:13:15:27	55	0.0	0.0	0	0.0	0.0
05:21:2001:13:15:47	96	5.3	1.0	0	5.3	0.0
05:21:2001:13:16:07	87	7.8	3.3	0	7.8	0.0
05:21:2001:13:16:27	206	7.8	5.9	10786	33.2	0.0
05:21:2001:13:16:47	357	7.8	8.6	13047	38.4	0.0
05:21:2001:13:17:07	494	7.8	11.2	13627	40.0	0.0
05:21:2001:13:17:27	650	7.8	13.8	13607	39.9	0.0
05:21:2001:13:17:47	792	7.8	16.4	13627	40.0	0.0
05:21:2001:13:17:54	Stage at Perfs: PAD					
05:21:2001:13:17:54	815	7.8	17.3	13627	40.0	0.0
05:21:2001:13:18:07	856	7.8	19.0	13627	40.0	76.3
05:21:2001:13:18:27	916	7.8	21.6	13607	39.9	80.2
05:21:2001:13:18:47	989	7.8	24.2	13607	39.9	80.3
05:21:2001:13:19:07	1085	7.8	26.8	13587	39.9	80.4
05:21:2001:13:19:27	1213	9.0	29.3	24473	32.6	80.4
05:21:2001:13:19:47	1488	13.6	33.0	27514	78.0	80.4
05:21:2001:13:20:07	1781	15.9	38.2	27462	80.7	80.4
05:21:2001:13:20:27	2010	16.1	43.5	27501	81.0	84.3
05:21:2001:13:20:47	2129	16.1	48.9	27482	80.9	80.6
05:21:2001:13:21:07	2119	16.0	54.2	27464	80.8	80.3
05:21:2001:13:21:27	2055	16.0	59.6	27501	80.9	80.2
05:21:2001:13:21:47	2014	16.1	64.9	27501	81.0	80.2
05:21:2001:13:22:07	1964	16.1	70.3	27597	81.1	80.2
05:21:2001:13:22:27	1927	16.1	75.6	27675	81.3	80.2
05:21:2001:13:22:47	1927	16.1	81.0	27342	80.5	80.2
05:21:2001:13:23:07	1913	16.1	86.3	27364	80.6	80.2
05:21:2001:13:23:27	1909	16.1	91.7	27422	80.7	80.1
05:21:2001:13:23:47	1904	16.1	97.0	27441	80.8	80.1
05:21:2001:13:24:07	1881	16.1	102.4	27501	80.9	80.1
05:21:2001:13:24:27	1717	0.0	103.1	27538	65.0	80.1
05:21:2001:13:24:47	1675	10.5	104.4	27617	75.6	80.1
05:21:2001:13:25:07	1717	0.0	107.7	27385	64.7	92.5
05:21:2001:13:25:27	1570	0.0	107.7	0	0.0	0.0
05:21:2001:13:25:47	1428	0.0	107.7	0	0.0	0.0
05:21:2001:13:26:07	1373	0.0	107.7	0	0.0	0.0
05:21:2001:13:26:27	1337	0.0	107.7	0	0.0	0.0
05:21:2001:13:26:47	1305	0.0	107.7	0	0.0	0.0
05:21:2001:13:27:07	1286	0.0	107.7	0	0.0	0.0
05:21:2001:13:27:27	1245	13.4	110.9	0	13.4	0.0
05:21:2001:13:27:47	1337	16.0	116.2	0	16.0	0.0
05:21:2001:13:28:07	1350	16.0	121.5	8338	35.6	91.1
05:21:2001:13:28:27	1501	16.0	126.8	25281	74.8	83.0
05:21:2001:13:28:47	1739	15.9	132.1	26606	78.4	0.0
05:21:2001:13:29:07	1808	16.0	137.4	27348	80.4	76.2
05:21:2001:13:29:27	1712	0.0	140.1	27347	64.5	79.5
05:21:2001:13:29:47	1460	0.0	140.1	40	0.1	79.7
05:21:2001:13:30:07	1341	0.0	140.1	20	0.0	79.7
05:21:2001:13:30:27	1263	0.0	140.1	20	0.0	79.7
05:21:2001:13:30:47	1208	0.0	140.1	0	0.0	79.7
05:21:2001:13:31:07	1176	0.0	140.1	0	0.0	79.7
05:21:2001:13:31:27	1154	0.0	140.1	0	0.0	79.7
05:21:2001:13:31:47	1135	0.0	140.1	0	0.0	79.7
05:21:2001:13:32:07	1122	0.0	140.1	0	0.0	79.7
05:21:2001:13:32:27	1112	0.0	140.1	0	0.0	79.7

ORIGINAL

Well: Keating

Job Date: 05-21-2001

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS2 psi	SLUR RATE bbl/min	TOT SLUR bbl	N2 RATE scf/min	INJ RATE bbl/min	BH FOAM QUALITY %
05:21:2001:13:33:07	1099	0.0	140.1	0	0.0	79.7
05:21:2001:13:33:27	1089	0.0	140.1	0	0.0	79.7
05:21:2001:13:33:47	1094	0.0	140.1	0	0.0	79.7
05:21:2001:13:34:27	73	0.0	140.1	0	0.0	79.7
05:21:2001:13:47:11	874	11.3	141.7	6824	27.3	79.7
05:21:2001:13:47:31	1002	15.5	146.3	20205	63.0	79.9
05:21:2001:13:47:51	1318	15.9	151.6	22103	67.1	80.1
05:21:2001:13:48:11	1552	16.0	156.9	25267	75.3	0.0
05:21:2001:13:48:31	1703	16.1	162.2	26678	78.6	75.4
05:21:2001:13:48:51	1831	16.0	167.5	27081	79.9	77.7
05:21:2001:13:49:11	1964	16.1	172.9	27267	80.3	79.9
05:21:2001:13:49:31	2000	16.1	178.2	27345	80.5	79.9
05:21:2001:13:49:51	1982	16.1	183.6	27404	80.7	80.0
05:21:2001:13:50:11	1987	16.1	188.9	27444	80.8	80.0
05:21:2001:13:50:31	1991	16.1	194.3	27445	80.9	80.0
05:21:2001:13:50:51	1959	16.1	199.6	27482	81.0	80.0
05:21:2001:13:51:11	1968	16.1	205.0	27481	80.9	80.1
05:21:2001:13:51:31	1927	16.1	210.3	27581	81.1	80.1
05:21:2001:13:51:51	1927	16.1	215.7	27597	81.1	80.1
05:21:2001:13:52:11	1863	16.1	221.0	27456	80.9	80.2
05:21:2001:13:52:31	1881	16.1	226.4	27475	80.9	80.2
05:21:2001:13:52:51	1854	16.1	231.7	27474	80.8	80.2
05:21:2001:13:53:11	1881	16.1	237.1	27452	80.8	80.1
05:21:2001:13:53:31	1881	16.1	242.4	27245	80.4	80.1
05:21:2001:13:53:51	1863	16.1	247.8	27208	80.3	80.1
05:21:2001:13:54:11	1854	16.1	253.1	27207	80.2	80.1
05:21:2001:13:54:31	1859	16.1	258.5	27188	80.2	80.0
05:21:2001:13:54:51	1836	16.1	263.9	27205	80.2	80.0
05:21:2001:13:55:11	1831	16.1	269.2	27184	80.1	80.0
05:21:2001:13:55:31	1854	16.1	274.6	27124	80.1	80.0
05:21:2001:13:55:51	1822	16.1	279.9	27104	80.0	80.0
05:21:2001:13:56:11	1822	16.1	285.3	27064	79.9	80.0
05:21:2001:13:56:31	1854	16.1	290.6	27462	80.9	79.9
05:21:2001:13:56:51	1849	16.1	296.0	27502	80.9	80.0
05:21:2001:13:57:11	1836	16.1	301.3	27541	81.0	80.1
05:21:2001:13:57:31	1836	16.1	306.7	27542	81.1	80.1
05:21:2001:13:57:51	1859	16.1	312.0	27581	81.1	80.2
05:21:2001:13:58:11	1822	16.1	317.4	27640	81.2	80.2
05:21:2001:13:58:31	1831	16.1	322.7	27677	81.3	80.2
05:21:2001:13:58:51	1836	16.1	328.1	27678	81.4	80.2
05:21:2001:13:59:11	1813	16.1	333.4	27717	81.4	80.2
05:21:2001:13:59:31	1813	16.1	338.8	27717	81.5	80.3
05:21:2001:13:59:51	1845	16.1	344.1	27737	81.5	80.3
05:21:2001:14:00:11	1836	16.1	349.5	27677	81.3	80.3
05:21:2001:14:00:31	1822	16.1	354.8	27376	80.6	80.3
05:21:2001:14:00:51	1840	16.1	360.2	27296	80.4	80.2
05:21:2001:14:01:11	1831	16.1	365.5	27196	80.3	80.1
05:21:2001:14:01:31	1813	16.1	370.9	27155	80.1	80.1
05:21:2001:14:01:51	1813	16.1	376.2	27213	80.2	80.0
05:21:2001:14:02:11	1836	16.1	381.6	27614	81.1	80.0
05:21:2001:14:02:31	1804	16.1	387.0	27614	81.2	80.0
05:21:2001:14:02:51	1808	16.1	392.3	27654	81.2	80.1
05:21:2001:14:03:11	1831	16.1	397.7	27654	81.3	80.2
05:21:2001:14:03:31	1836	16.1	403.0	27654	81.2	80.2
05:21:2001:14:03:51	1822	16.1	408.4	27654	81.5	80.2
05:21:2001:14:04:11	1831	16.1	413.7	27612	81.1	80.2
05:21:2001:14:04:31	1831	16.1	419.1	27572	81.1	80.2
05:21:2001:14:04:51	1813	16.1	424.4	27571	81.1	80.2
05:21:2001:14:05:11	1808	16.1	429.8	27551	81.0	80.2
05:21:2001:14:05:31	1817	16.1	435.1	27512	80.9	80.2
05:21:2001:14:05:51	1804	16.1	440.5	27492	80.9	80.2
05:21:2001:14:06:11	1799	16.1	445.8	27509	80.9	80.2
05:21:2001:14:06:31	1813	16.1	451.2	27392	80.7	80.2

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 09 2002

CONSERVATION DIVISION
WICHITA, KS

Well: Keating

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS2 psi	SLUR RATE bbl/min	TOT SLUR bbl	N2 RATE scf/min	INJ RATE bbl/min	BH FOAM QUALITY %
05:21:2001:14:06:51	1822	16.1	456.5	27411	80.7	80.1
05:21:2001:14:07:11	1799	16.1	461.9	27312	80.6	80.1
05:21:2001:14:07:31	1804	16.1	467.2	27309	80.5	80.1
05:21:2001:14:07:51	1813	16.1	472.6	27250	80.3	80.1
05:21:2001:14:08:11	1804	16.1	477.9	27247	80.3	80.0
05:21:2001:14:08:31	1804	16.1	483.3	27227	80.3	80.0
05:21:2001:14:08:51	1790	16.1	488.6	27186	80.2	80.0
05:21:2001:14:09:11	1804	16.1	494.0	27166	80.1	80.0
05:21:2001:14:09:31	1799	16.1	499.3	27126	80.0	80.0
05:21:2001:14:09:51	1790	16.1	504.7	27307	80.5	80.0
05:21:2001:14:10:11	1813	16.1	510.0	27367	80.6	80.0
05:21:2001:14:10:31	1799	16.1	515.4	27327	80.6	80.0
05:21:2001:14:10:51	1790	16.1	520.7	27384	80.6	80.1
05:21:2001:14:11:11	1804	16.1	526.1	27364	80.5	80.1
05:21:2001:14:11:31	1813	16.1	531.5	27364	80.6	80.1
05:21:2001:14:11:51	1776	16.1	536.8	27364	80.6	80.1
05:21:2001:14:12:11	1744	16.1	542.2	27382	80.6	80.1
05:21:2001:14:12:31	1689	16.1	547.5	27382	80.7	80.1
05:21:2001:14:12:41	Started Flush Automatically					
05:21:2001:14:12:41	1662	15.4	550.2	27401	80.0	80.1
05:21:2001:14:12:51	1547	0.0	550.5	27421	64.7	80.1
05:21:2001:14:13:11	1497	0.0	550.5	27496	64.9	80.1
05:21:2001:14:13:31	1506	0.0	550.5	27459	64.8	80.1
05:21:2001:14:13:43	Stage at Perfs: Flush					
05:21:2001:14:13:43	1451	0.0	550.5	5744	57.1	88.0
05:21:2001:14:13:51	1350	0.0	550.5	0	0.0	88.0
05:21:2001:14:14:11	1295	0.0	550.5	0	0.0	88.0
05:21:2001:14:14:31	1277	0.0	550.5	0	0.0	88.0
05:21:2001:14:14:51	1263	0.0	550.5	0	0.0	88.0
05:21:2001:14:15:11	1245	0.0	550.5	0	0.0	88.0
05:21:2001:14:15:31	1199	0.0	550.5	0	0.0	88.0

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