

**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: 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
 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: Armstrong Unit #2, Well # 4
 Original Comp. Date: 09-30-1997 Original Total Depth: 2900
~~XXX~~ **FRACTURE TREATED**
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back 2858 Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

<u>05-30-2001</u>	<u>09-18-1997</u>	<u>06-08-2001</u>
START Date of START	Date Reached TD	Completion Date of
OF WORKOVER		WORKOVER

API No. 15 - 129-21532 - 0001
 County: Morton
NE SW SW Sec. 5 Twp. 34 S. R. 39 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: Armstrong Unit 2 Well #: 4
 Field Name: Hugoton
 Producing Formation: Chase
 Elevation: Ground: 3297 Kelly Bushing: 3306
 Total Depth: 2900 Plug Back Total Depth: 2858
 Amount of Surface Pipe Set and Cemented at 555 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 JH 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.: _____

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CONSERVATION DIVISION
 WICHITA, KS

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 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

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

X

Operator Name: Exxon Mobil Oil Corporation * Lease Name: Armstrong Unit 2 Well #: 4
 Sec. 5 Twp. 34 S. R. 39 East West County: Morton

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>Glorieta</td> <td>1300</td> <td></td> </tr> <tr> <td>Stone Corral</td> <td>1756</td> <td></td> </tr> <tr> <td>Sumner Group</td> <td>2337</td> <td></td> </tr> <tr> <td>Chase Group</td> <td>2535</td> <td></td> </tr> </table>	Name	Top	Datum	Glorieta	1300		Stone Corral	1756		Sumner Group	2337		Chase Group	2535	
Name	Top	Datum														
Glorieta	1300															
Stone Corral	1756															
Sumner Group	2337															
Chase Group	2535															

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	555	CL-C	375	50:50 c/poz.
Production	7.875	5.500	14	2900	CL-C	225	3% D79
					CL-C	100	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.	2652-2660, 2696-2706	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	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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)	2652 2827

15-129-21532-0001

Schlumberger Job Date: 06-05-2001	Customer: Exxon Mobil
	District: ULYSSES
	Representative: Richard Lewis
	DS Supervisor: Dave Brawley
	Well: Armstrong 2-4

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS2 psi	TOT CFLD bbl	N2 RATE scf/min	TOT N2 Mscf	TOT INJ bbl	BH FOAM QUALITY %
06:05:2001:08:07:00	0	0.0	0	0.0	0.0	0.0
06:05:2001:08:07:20	41	0.0	0	0.0	0.0	0.0
06:05:2001:08:08:00	2856	0.0	0	0.0	0.0	0.0
06:05:2001:08:08:20	2724	0.0	0	0.0	0.0	0.0
06:05:2001:08:08:40	2650	0.0	0	0.0	0.0	0.0
06:05:2001:08:09:00	2600	0.0	60	0.0	0.0	0.0
06:05:2001:08:09:20	2573	0.0	5303	0.0	0.0	0.0
06:05:2001:08:09:40	2870	0.0	0	0.0	0.0	0.0
06:05:2001:08:10:00	2962	0.0	0	0.0	0.0	0.0
06:05:2001:08:10:20	2902	0.0	0	0.0	0.0	0.0
06:05:2001:08:10:40	2829	0.0	0	0.0	0.0	0.0
06:05:2001:08:11:00	2559	0.0	0	0.0	0.0	0.0
06:05:2001:08:11:20	174	0.0	0	0.0	0.0	0.0
06:05:2001:08:11:40	343	0.0	0	0.0	0.0	0.0
06:05:2001:08:12:00	485	0.0	0	0.0	0.0	0.0
06:05:2001:08:12:20	609	0.0	0	0.0	0.0	0.0
06:05:2001:08:12:40	710	0.0	0	0.0	0.0	0.0
06:05:2001:08:13:00	797	0.0	40	0.0	0.0	0.0
06:05:2001:08:13:20	874	0.0	0	0.0	0.0	0.0
06:05:2001:08:13:40	934	0.0	60	0.0	0.0	0.0
<hr/>						
06:05:2001:08:13:44	Started PAD					
06:05:2001:08:13:44	943	0.0	100	0.0	0.0	0.0
06:05:2001:08:14:00	975	0.0	60	0.0	0.0	0.0
06:05:2001:08:14:20	1007	0.0	60	0.0	0.1	0.0
06:05:2001:08:14:40	27	0.0	60	0.1	0.2	0.0
06:05:2001:08:15:00	5	0.4	100	0.1	0.7	0.0
06:05:2001:08:15:20	41	2.1	3262	0.2	2.5	0.0
06:05:2001:08:15:40	165	4.7	12907	3.8	13.1	0.0
06:05:2001:08:16:00	266	7.3	13607	8.3	26.2	0.0
06:05:2001:08:16:20	366	9.9	13707	12.8	39.6	0.0
06:05:2001:08:16:40	458	12.5	13687	17.4	52.9	0.0
<hr/>						
06:05:2001:08:16:58	Stage at Pers: PAD					
06:05:2001:08:16:58	504	14.8	13687	21.5	65.0	8.4
06:05:2001:08:17:00	522	15.1	13687	21.9	66.3	2.8
06:05:2001:08:17:20	577	17.7	13687	26.5	79.7	80.3
06:05:2001:08:17:40	705	20.2	14367	31.2	93.3	80.4
06:05:2001:08:18:00	1048	24.9	27435	40.1	118.3	80.5
06:05:2001:08:18:20	1350	30.2	27286	49.2	145.0	80.5
06:05:2001:08:18:40	1497	35.5	27323	58.3	171.8	80.5
06:05:2001:08:19:00	1575	40.8	27209	67.3	198.6	80.3
06:05:2001:08:19:20	1680	46.1	27207	76.4	225.3	80.2
06:05:2001:08:19:40	1735	51.5	27087	85.4	251.9	80.1
06:05:2001:08:20:00	1785	56.8	27183	94.5	278.6	80.1
06:05:2001:08:20:20	1794	62.1	27223	103.6	305.3	80.0
06:05:2001:08:20:40	1804	67.5	27243	112.6	332.0	80.0
06:05:2001:08:21:00	1749	72.8	27203	121.7	358.8	80.0
06:05:2001:08:21:20	1739	78.1	27123	130.8	385.5	80.1
06:05:2001:08:21:40	1694	83.5	27083	139.8	412.1	80.0
06:05:2001:08:22:00	1680	88.8	27025	148.8	438.7	80.0
06:05:2001:08:22:20	1671	94.1	27103	157.8	465.3	80.0
06:05:2001:08:22:40	1689	99.5	27223	166.9	492.0	80.0
06:05:2001:08:23:00	1694	104.8	27243	176.0	518.7	80.0
06:05:2001:08:23:20	1721	110.1	27245	185.1	545.5	80.0
06:05:2001:08:23:40	1707	115.4	27321	194.2	572.3	80.1
06:05:2001:08:24:00	1712	120.8	27341	203.3	599.1	80.1
06:05:2001:08:24:20	1698	126.1	27361	212.4	625.9	80.1
06:05:2001:08:24:40	1675	131.4	27343	221.5	652.8	80.1

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AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS2 psi	TOT CFLD bbl	N2 RATE scf/min	TOT N2 Mscf	TOT INJ bbl	BH FOAM QUALITY %
06:05:2001:08:25:20	1694	142.1	27221	239.7	706.3	80.1
06:05:2001:08:25:40	1703	147.4	27221	248.7	733.0	80.1
06:05:2001:08:26:00	1675	152.8	27203	257.8	759.7	80.1
06:05:2001:08:26:20	1675	158.1	27221	266.9	786.5	80.1
06:05:2001:08:26:40	1675	163.4	27201	276.0	813.2	80.1
06:05:2001:08:27:00	1653	168.8	27221	285.0	839.9	80.1
06:05:2001:08:27:20	1657	174.1	27221	294.1	866.6	80.1
06:05:2001:08:27:40	1666	179.4	27221	303.2	893.4	80.1
06:05:2001:08:28:00	1662	184.8	27203	312.2	920.1	80.1
06:05:2001:08:28:20	1675	190.1	27221	321.3	946.8	80.0
06:05:2001:08:28:40	1648	195.4	27221	330.4	973.5	80.1
06:05:2001:08:29:00	1653	200.8	27221	339.4	1000.3	80.0
06:05:2001:08:29:20	1675	206.1	27221	348.5	1027.0	80.0
06:05:2001:08:29:40	1666	211.4	27221	357.6	1053.7	80.0
06:05:2001:08:30:00	1680	216.8	27203	366.7	1080.5	80.0
06:05:2001:08:30:20	1662	222.1	27221	375.7	1107.2	80.0
06:05:2001:08:30:40	1662	227.4	27221	384.8	1133.9	80.0
06:05:2001:08:31:00	1685	232.8	27201	393.9	1160.6	80.0
06:05:2001:08:31:20	1662	238.1	27241	403.0	1187.4	80.0
06:05:2001:08:31:40	1675	243.4	27260	412.0	1214.1	80.0
06:05:2001:08:32:00	1671	248.8	27221	421.1	1240.8	80.1
06:05:2001:08:32:20	1694	254.1	27241	430.2	1267.6	80.1
06:05:2001:08:32:40	1666	259.4	27177	439.2	1294.3	80.1
06:05:2001:08:33:00	1662	264.7	27217	448.3	1321.0	80.0
06:05:2001:08:33:20	1675	270.1	27219	457.4	1347.7	80.0
06:05:2001:08:33:40	1671	275.4	27237	466.5	1374.5	80.0
06:05:2001:08:34:00	1675	280.7	27237	475.5	1401.2	80.0
06:05:2001:08:34:20	1634	286.1	27214	484.6	1427.9	80.1
06:05:2001:08:34:40	1666	291.4	27195	493.7	1454.7	80.1
06:05:2001:08:35:00	1685	296.7	27193	502.7	1481.4	80.0
06:05:2001:08:35:20	1680	302.1	27214	511.8	1508.1	80.0
06:05:2001:08:35:40	1675	307.4	27214	520.9	1534.8	80.0
06:05:2001:08:36:00	1662	312.7	27214	529.9	1561.5	80.0
06:05:2001:08:36:20	1634	318.1	27195	539.0	1588.3	80.0
06:05:2001:08:36:40	1653	323.4	27195	548.1	1615.0	80.0
06:05:2001:08:37:00	1643	328.7	27195	557.1	1641.7	80.0
06:05:2001:08:37:20	1653	334.1	27195	566.2	1668.4	80.0
06:05:2001:08:37:40	1653	339.4	27215	575.3	1695.1	80.0
06:05:2001:08:38:00	1653	344.7	27215	584.3	1721.8	80.0
06:05:2001:08:38:20	1671	350.1	27175	593.4	1748.5	80.0
06:05:2001:08:38:40	1634	355.4	27195	602.5	1775.2	80.0
06:05:2001:08:39:00	1657	360.7	27195	611.5	1802.0	80.0
06:05:2001:08:39:20	1653	366.1	27195	620.6	1828.7	80.0
06:05:2001:08:39:40	1616	371.4	27157	629.7	1855.4	80.0
06:05:2001:08:40:00	1657	376.7	27175	638.7	1882.1	80.0
06:05:2001:08:40:20	1685	382.1	27195	647.8	1908.8	80.0
06:05:2001:08:40:40	1643	387.4	27195	656.8	1935.5	80.0
06:05:2001:08:41:00	1648	392.7	27175	665.9	1962.2	80.0
06:05:2001:08:41:20	1620	398.1	27177	675.0	1988.9	80.0
06:05:2001:08:41:40	1639	403.4	27195	684.0	2015.6	80.0
06:05:2001:08:42:00	1620	408.7	27195	693.1	2042.3	80.0
06:05:2001:08:42:20	1634	414.1	27177	702.2	2069.0	80.0
06:05:2001:08:42:40	1643	419.4	27195	711.2	2095.7	80.0
06:05:2001:08:43:00	1643	424.7	27214	720.3	2122.4	80.0
06:05:2001:08:43:20	1620	430.1	27214	729.4	2149.2	80.0
06:05:2001:08:43:40	1630	435.4	27214	738.4	2175.9	80.0
06:05:2001:08:44:00	1602	440.7	27215	747.5	2202.6	80.0
06:05:2001:08:44:20	1653	446.0	27214	756.6	2229.4	80.0
06:05:2001:08:44:40	1620	451.4	27214	765.6	2256.1	80.1
06:05:2001:08:45:00	1625	456.7	27214	774.7	2282.8	80.1
06:05:2001:08:45:20	1611	462.0	27214	783.8	2309.5	80.1
06:05:2001:08:45:40	1602	467.4	27215	792.9	2336.3	80.0
06:05:2001:08:46:00	1653	472.7	27234	801.9	2363.0	80.1

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Well: Armstrong 2-4

Job Date: 06-05-2001

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS2 psi	TOT CFLD bbl	N2 RATE scf/min	TOT N2 Mscf	TOT INJ bbl	BH FOAM QUALITY %
06:05:2001:08:46:20	1653	478.0	27234	811.0	2389.8	80.1
06:05:2001:08:46:40	1657	483.4	27234	820.1	2416.5	80.1
06:05:2001:08:47:00	1616	488.7	27215	829.2	2443.2	80.1
06:05:2001:08:47:20	1593	494.0	27234	838.2	2470.0	80.1
06:05:2001:08:47:40	1598	499.4	27254	847.3	2496.7	80.1
06:05:2001:08:48:00	1593	504.7	27274	856.4	2523.5	80.1
06:05:2001:08:48:20	1602	510.0	27274	865.5	2550.2	80.1
06:05:2001:08:48:40	1602	515.4	27254	874.6	2577.0	80.1
06:05:2001:08:49:00	1579	520.7	27095	883.7	2603.8	80.1
06:05:2001:08:49:20	1570	526.0	27013	892.7	2630.4	80.1
06:05:2001:08:49:40	1588	531.4	26933	901.7	2656.9	80.0
06:05:2001:08:50:00	1588	536.7	26853	910.6	2683.4	80.0
06:05:2001:08:50:20	1570	542.0	26813	919.6	2709.8	79.9
06:05:2001:08:50:40	1483	547.1	26795	928.5	2735.9	79.9
06:05:2001:08:50:51 Started Flush Automatically						
06:05:2001:08:50:51	1451	550.0	26813	933.4	2750.5	79.9
06:05:2001:08:51:00	1373	550.8	26851	937.4	2760.7	79.9
06:05:2001:08:51:20	1323	550.8	26831	946.4	2781.8	79.9
06:05:2001:08:51:40	1323	550.8	26870	955.3	2802.9	78.7
06:05:2001:08:51:53 Stage at Perfs: Flush						
06:05:2001:08:51:53	1323	550.8	26851	961.2	2816.7	79.8
06:05:2001:08:52:00	1213	550.8	620	963.0	2822.0	0.0

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