

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 \_\_\_ 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: RUSH #1 UNIT, WELL #3

Original Comp. Date: 7-30-97 Original Total Depth: 2993  
**XXX HYDRAULICALLY FRACTURED**  
 Deepening Re-part. \_\_\_ Conv. to Enhr./SWD  
 \_\_\_ Plug Back \_\_\_ Plug Back Total Depth  
 \_\_\_ Commingled Docket No. \_\_\_\_\_  
 \_\_\_ Dual Completion Docket No. \_\_\_\_\_  
 \_\_\_ Other (SWD or Enhr.?) Docket No. \_\_\_\_\_

2-16-02 7-26-97 2-22-02  
~~Start~~ Date of **START** Date Reached TD Completion Date of

OF WORKOVER

WORKOVER

API No. 15 - 189-22177-0001  
 County: Stevens  
 \_\_\_ SE \_\_\_ NWNW Sec. 26 Twp. 34 S. R. 36  East  West  
1250' feet from S  (circle one) Line of Section  
1250' feet from E  (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE SE  NW SW  
 Lease Name: RUSH #1 UNIT Well #: 3  
 Field Name: Hugoton

Producing Formation: Chase  
 Elevation: Ground: 3037 Kelly Bushing: 3046  
 Total Depth: 2993 Plug Back Total Depth: 2938  
 Amount of Surface Pipe Set and Cemented at 782 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 gfh 6/24/03  
 (Data must be collected from the Reserve Pit)

Chloride content N. A. ppm Fluid volume N. A. bbls  
 Dewatering method used \_\_\_\_\_  
 RECEIVED  
 KANSAS CORPORATION COMMISSION

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

JUN 09 2003

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: Beverly Roppolo  
 Title: Contract Completions Admin Date: 6/6/03

Subscribed and sworn to before me this 6th day of June

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

**KIM LYNCH**  
 NOTARY PUBLIC, STATE OF TEXAS  
 MY COMMISSION EXPIRES  
 AUG. 26, 2006

X

Operator Name: Exxon Mobil Oil Corporation \* Lease Name: RUSH #1 UNIT Well #: 3  
 Sec. 26 Twp. 34 S. R. 86  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>L KRIDER</td> <td>2736</td> <td>2748</td> </tr> <tr> <td>WINFIELD</td> <td>2783</td> <td>2791</td> </tr> </table>	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	L KRIDER	2736	2748	WINFIELD	2783	2791
<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample											
Name	Top	Datum											
L KRIDER	2736	2748											
WINFIELD	2783	2791											

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#	782	CLASS C	400	50:50 c/poz
PRODUCTION	7.875	5.500	14#	2983	CLASS C	275, 100	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
2 SPF	2736' - 2791'	FRAC'D WELL WITH 971,000 scf OF 80Q N2 FOAM @ 80BPM	

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Enhr.	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
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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) _____	

<h2 style="margin: 0;">Schlumberger</h2> <p style="margin: 5px 0 0 0;">Job Date: 02-18-2002</p>	Customer: Exxon Mobil
	District: Ulysses, KS
	Representative: Mr. Richard Lewis
	DS Supervisor: Dave Brawley
	Well: MDC RUSH 1-3

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	INJ RATE bb/min	BH FOAM QUALITY %	SLUR RATE bb/min	TOT SLUR bbl	N2 RATE scf/min	TOT N2 Mscf	TOT INJ bbl
02:18:2002:08:48:52	819	0.1	0.0	0.3	0.0	292	0.0	0.0
02:18:2002:08:48:58	Pressure Test Liquid Lines							
02:18:2002:08:48:58	792	0.0	0.0	0.1	0.0	282	0.0	0.0
02:18:2002:08:49:02	1067	0.0	0.0	0.0	0.0	282	0.0	0.0
02:18:2002:08:49:12	1273	0.0	0.0	0.0	0.0	282	0.0	0.0
02:18:2002:08:49:22	1730	0.0	0.0	0.0	0.0	282	0.0	0.0
02:18:2002:08:49:32	1987	0.0	0.0	0.0	0.0	282	0.0	0.0
02:18:2002:08:49:42	2202	0.3	0.0	0.0	0.0	282	0.0	0.0
02:18:2002:08:49:52	2362	0.0	0.0	0.0	0.0	272	0.0	0.0
02:18:2002:08:50:02	2481	0.3	0.0	0.0	0.0	272	0.0	0.0
02:18:2002:08:50:12	2522	0.0	0.0	0.0	0.0	272	0.0	0.0
02:18:2002:08:50:22	2504	0.1	0.0	0.0	0.0	272	0.0	0.0
02:18:2002:08:50:32	2486	0.0	0.0	0.1	0.0	272	0.0	0.0
02:18:2002:08:50:42	2618	0.0	0.0	0.3	0.0	262	0.0	0.0
02:18:2002:08:50:52	2637	0.1	0.0	0.1	0.0	262	0.0	0.0
02:18:2002:08:51:02	2596	0.0	0.0	0.0	0.0	262	0.0	0.0
02:18:2002:08:51:12	2861	0.0	0.0	0.3	0.0	262	0.0	0.0
02:18:2002:08:51:22	2911	0.1	0.0	0.3	0.0	262	0.0	0.0
02:18:2002:08:51:32	2911	0.0	0.0	0.0	0.0	252	0.0	0.0
02:18:2002:08:51:42	2930	0.0	0.0	0.0	0.0	252	0.0	0.0
02:18:2002:08:51:52	3081	0.4	0.0	0.0	0.0	252	0.0	0.0
02:18:2002:08:52:02	3072	0.0	0.0	0.0	0.0	242	0.0	0.0
02:18:2002:08:52:12	3062	0.0	0.0	0.0	0.0	242	0.0	0.0
02:18:2002:08:52:22	3053	0.0	0.0	0.0	0.0	242	0.0	0.0
02:18:2002:08:52:32	3044	0.0	0.0	0.0	0.0	242	0.0	0.0
02:18:2002:08:52:42	3040	0.0	0.0	0.0	0.0	242	0.0	0.0
02:18:2002:08:52:52	3030	0.0	0.0	0.0	0.0	353	0.0	0.0
02:18:2002:08:53:02	3026	0.0	0.0	0.0	0.0	353	0.0	0.0
02:18:2002:08:53:12	3021	0.0	0.0	0.0	0.0	353	0.0	0.0
02:18:2002:08:53:22	3017	0.0	0.0	0.0	0.0	363	0.0	0.0
02:18:2002:08:53:32	3012	0.0	0.0	0.0	0.0	353	0.0	0.0
02:18:2002:08:53:42	3008	0.0	0.0	0.0	0.0	353	0.0	0.0
02:18:2002:08:53:52	3003	0.0	0.0	0.0	0.0	353	0.0	0.0
02:18:2002:08:54:02	2998	0.0	0.0	0.0	0.0	2075	0.0	0.0
02:18:2002:08:54:12	2994	0.0	0.0	0.0	0.0	2065	0.0	0.0
02:18:2002:08:54:22	2989	0.0	0.0	0.0	0.0	2498	0.0	0.0
02:18:2002:08:54:32	2985	0.0	0.0	0.0	0.0	2558	0.0	0.0
02:18:2002:08:54:42	2980	0.0	0.0	0.0	0.0	2548	0.0	0.0
02:18:2002:08:54:52	2975	0.0	0.0	0.0	0.0	332	0.0	0.0
02:18:2002:08:55:02	2975	0.0	0.0	0.0	0.0	342	0.0	0.0
02:18:2002:08:55:12	2971	0.0	0.0	0.0	0.0	342	0.0	0.0
02:18:2002:08:55:22	2966	0.0	0.0	0.0	0.0	342	0.0	0.0
02:18:2002:08:55:30	Bleedoff from Pressure test							
02:18:2002:08:55:33	2962	0.0	0.0	0.0	0.0	342	0.0	0.0
02:18:2002:08:55:42	2962	0.0	0.0	0.0	0.0	332	0.0	0.0
02:18:2002:08:55:52	2957	0.0	0.0	0.0	0.0	322	0.0	0.0
02:18:2002:08:56:02	2953	0.0	0.0	0.0	0.0	332	0.0	0.0
02:18:2002:08:56:22	412	0.0	0.0	0.0	0.0	322	0.0	0.0
02:18:2002:08:56:32	481	0.0	0.0	0.0	0.0	322	0.0	0.0
02:18:2002:08:56:42	499	0.0	0.0	0.0	0.0	312	0.0	0.0
02:18:2002:08:56:52	508	0.0	0.0	0.0	0.0	312	0.0	0.0
02:18:2002:08:57:02	14	0.0	0.0	0.0	0.0	312	0.0	0.0
02:18:2002:08:57:12	14	0.0	0.0	0.0	0.0	302	0.0	0.0
02:18:2002:08:57:42	14	0.0	0.0	0.0	0.0	292	0.0	0.0
02:18:2002:08:58:02	14	0.0	0.0	0.0	0.0	282	0.0	0.0
02:18:2002:08:58:42	14	0.0	0.0	0.0	0.0	242	0.0	0.0
02:18:2002:08:58:52	14	0.0	0.0	0.0	0.0	262	0.0	0.0
02:18:2002:08:59:02	14	0.0	0.0	0.0	0.0	353	0.0	0.0
02:18:2002:08:59:12	14	0.0	0.0	0.0	0.0	685	0.0	0.0
02:18:2002:08:59:22	14	0.0	0.0	0.0	0.0	403	0.0	0.0
02:18:2002:08:59:32	14	0.0	0.0	0.0	0.0	413	0.0	0.0
02:18:2002:08:59:42	14	0.0	0.0	0.0	0.0	433	0.0	0.0
02:18:2002:08:59:52	14	0.0	0.0	0.0	0.0	463	0.0	0.0
02:18:2002:09:00:02	14	0.0	0.0	0.0	0.0	453	0.0	0.0
02:18:2002:09:00:12	14	0.0	0.0	0.0	0.0	463	0.0	0.0
02:18:2002:09:00:22	14	0.0	0.0	0.0	0.0	494	0.0	0.0
02:18:2002:09:00:42	14	0.0	0.0	0.0	0.0	504	0.0	0.0
02:18:2002:09:00:52	14	0.0	0.0	0.0	0.0	494	0.0	0.0
02:18:2002:09:01:02	14	0.0	0.0	0.0	0.0	483	0.0	0.0
02:18:2002:09:01:12	14	0.0	0.0	0.0	0.0	473	0.0	0.0
02:18:2002:09:01:22	14	0.0	0.0	0.0	0.0	433	0.0	0.0

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	INJ RATE bbl/min	BH FOAM QUALITY %	SLUR RATE bbl/min	TOT SLUR bbl	N2 RATE scf/min	TOT N2 Mscf	TOT INJ bbl
02:18:2002:09:01:52	14	0.0	0.0	0.0	0.0	151	0.0	0.0
02:18:2002:09:02:02	14	0.0	0.0	0.0	0.0	141	0.0	0.0
02:18:2002:09:02:22	14	0.0	0.0	0.0	0.0	131	0.0	0.0
02:18:2002:09:02:52	14	0.0	0.0	0.0	0.0	121	0.0	0.0
02:18:2002:09:03:32	14	0.0	0.0	0.0	0.0	101	0.0	0.0
02:18:2002:09:03:52	14	0.0	0.0	0.0	0.0	40	0.0	0.0
02:18:2002:09:04:02	14	0.0	0.0	0.0	0.0	101	0.0	0.0
02:18:2002:09:04:12	14	0.0	0.0	0.0	0.0	20	0.0	0.0
02:18:2002:09:04:22	14	0.0	0.0	0.0	0.0	101	0.0	0.0
02:18:2002:09:04:32	14	0.0	0.0	0.0	0.0	0	0.0	0.0
02:18:2002:09:04:42	14	0.0	0.0	0.0	0.0	101	0.0	0.0
02:18:2002:09:04:52	14	0.0	0.0	0.0	0.0	0	0.0	0.0
02:18:2002:09:05:12	14	0.0	0.0	0.0	0.0	101	0.0	0.0
02:18:2002:09:05:22	14	0.0	0.0	0.0	0.0	20	0.0	0.0
02:18:2002:09:05:32	14	0.0	0.0	0.0	0.0	0	0.0	0.0
02:18:2002:09:05:42	14	0.0	0.0	0.0	0.0	91	0.0	0.0
02:18:2002:09:05:52	14	0.0	0.0	0.0	0.0	101	0.0	0.0
02:18:2002:09:06:02	14	0.0	0.0	0.0	0.0	20	0.0	0.0
02:18:2002:09:06:12	14	0.0	0.0	0.0	0.0	101	0.0	0.0
02:18:2002:09:06:22	14	0.0	0.0	0.0	0.0	10	0.0	0.0
02:18:2002:09:06:32	14	0.0	0.0	0.0	0.0	20	0.0	0.0
02:18:2002:09:06:52	14	0.0	0.0	0.0	0.0	91	0.0	0.0
02:18:2002:09:07:02	14	0.0	0.0	0.0	0.0	20	0.0	0.0
02:18:2002:09:07:32	14	0.0	0.0	0.0	0.0	10	0.0	0.0
02:18:2002:09:07:42	14	0.0	0.0	0.0	0.0	0	0.0	0.0
02:18:2002:09:07:52	14	0.0	0.0	0.0	0.0	10	0.0	0.0
02:18:2002:09:08:22	14	0.0	0.0	0.0	0.0	0	0.0	0.0
02:18:2002:09:08:32	14	0.0	0.0	0.0	0.0	10	0.0	0.0
02:18:2002:09:08:42	14	0.0	0.0	0.0	0.0	0	0.0	0.0
02:18:2002:09:09:02	14	0.0	0.0	0.0	0.0	10	0.0	0.0
02:18:2002:09:09:12	14	0.0	0.0	0.0	0.0	0	0.0	0.0
02:18:2002:09:10:32	14	0.0	0.0	0.0	0.0	131	0.0	0.0
02:18:2002:09:10:42	14	0.0	0.0	0.0	0.0	0	0.0	0.0
02:18:2002:09:11:49	<b>Start Pumping N2</b>							
02:18:2002:09:11:49	64	0.0	0.0	0.0	0.0	0	0.0	0.0
02:18:2002:09:11:52	<b>Started Pad</b>							
02:18:2002:09:11:52	55	0.0	0.0	0.0	0.0	0	0.0	0.0
02:18:2002:09:12:02	32	0.0	0.0	0.0	0.0	0	0.0	0.0
02:18:2002:09:12:12	41	9.8	0.0	0.0	0.0	4351	0.2	0.2
02:18:2002:09:12:22	151	28.1	0.0	0.0	0.0	12067	1.7	3.6
02:18:2002:09:12:32	206	29.8	0.0	0.1	0.0	12631	3.8	8.5
02:18:2002:09:12:42	270	36.5	0.0	6.4	0.5	12863	5.9	13.9
02:18:2002:09:12:52	307	37.6	0.0	7.4	1.7	12933	8.1	20.1
02:18:2002:09:13:02	339	39.8	0.0	8.1	3.0	13457	10.3	26.6
02:18:2002:09:13:12	362	39.9	0.0	8.1	4.3	13477	12.5	33.2
02:18:2002:09:13:22	380	40.0	0.0	8.3	5.7	13477	14.8	39.9
02:18:2002:09:13:32	394	40.2	0.0	8.3	7.1	13467	17.0	46.6
02:18:2002:09:13:42	412	40.1	0.0	8.4	8.5	13477	19.3	53.3
02:18:2002:09:13:52	430	40.0	0.0	8.4	9.9	13447	21.5	59.9
02:18:2002:09:14:02	<b>Stage at Peris Pad</b>							
02:18:2002:09:14:02	435	40.1	0.0	8.4	11.3	13457	23.8	66.6
02:18:2002:09:14:11	<b>Increase Pump Rate</b>							
02:18:2002:09:14:11	449	40.6	0.0	8.4	12.5	13789	25.8	72.7
02:18:2002:09:14:12	453	40.9	0.0	10.2	12.7	14001	26.0	73.3
02:18:2002:09:14:22	490	47.3	82.7	12.2	14.6	15441	28.6	81.2
02:18:2002:09:14:32	563	67.0	80.7	14.2	16.7	22603	31.9	90.7
02:18:2002:09:14:42	632	71.9	79.4	14.9	19.1	24436	35.8	102.3
02:18:2002:09:14:52	696	75.9	79.3	15.4	21.7	25756	40.0	114.7
02:18:2002:09:15:02	746	77.2	79.2	15.9	24.3	26068	44.3	127.6
02:18:2002:09:15:12	760	64.7	79.2	16.0	27.0	25645	48.1	139.3
02:18:2002:09:15:22	760	65.2	79.4	16.0	29.6	23499	52.0	151.1
02:18:2002:09:15:32	797	76.7	79.4	15.9	32.3	25705	56.1	163.4
02:18:2002:09:15:42	833	80.2	79.5	16.0	35.0	27367	60.6	176.5
02:18:2002:09:15:52	861	80.3	79.6	16.0	37.6	27307	65.2	190.0
02:18:2002:09:16:02	893	80.3	75.1	16.0	40.3	27287	69.7	203.4
02:18:2002:09:16:12	920	80.3	75.3	16.0	43.0	27276	74.3	216.7
02:18:2002:09:16:22	948	80.4	79.7	15.9	45.6	27276	78.8	230.1
02:18:2002:09:16:32	989	80.2	79.9	16.0	48.3	27266	83.3	243.5
02:18:2002:09:16:40	<b>Rate/Psi</b>							
02:18:2002:09:16:40	1025	80.3	80.0	15.9	50.4	27256	87.0	254.2
02:18:2002:09:16:42	1035	80.2	80.0	16.0	50.9	27287	87.9	256.9
02:18:2002:09:16:52	1071	80.2	80.1	15.9	53.6	27256	92.4	270.3
02:18:2002:09:17:02	1108	80.3	80.1	15.9	56.2	27256	97.0	283.6
02:18:2002:09:17:12	1144	80.2	80.1	15.9	58.9	27246	101.5	297.0
02:18:2002:09:17:22	1190	80.2	80.1	15.9	61.5	27236	106.1	310.3
02:18:2002:09:17:32	1231	80.1	80.1	15.9	64.2	27236	110.6	323.7
02:18:2002:09:17:42	1277	80.0	80.1	15.9	66.8	27236	115.1	337.0
02:18:2002:09:17:52	1328	80.0	80.2	15.9	69.5	27216	119.7	350.4

# ORIGINAL

Well: MDC RUSH 1-3

Job Date: 02-18-2002

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	INJ RATE bbl/min	BH FOAM QUALITY %	SLUR RATE bbl/min	TOT SLUR bbl	N2 RATE scf/min	TOT N2 Mscf	TOT INJ bbl
02:18:2002:09:18:02	1378	80.1	80.2	15.8	72.1	27216	124.2	363.7
02:18:2002:09:18:12	1428	80.0	80.2	15.8	74.8	27206	128.7	377.1
02:18:2002:09:18:22	1479	80.0	80.2	15.9	77.4	27206	133.3	390.4
02:18:2002:09:18:32	1515	79.9	80.2	15.9	80.0	27206	137.8	403.7
02:18:2002:09:18:42	1547	80.1	80.2	15.8	82.7	27206	142.3	417.1
02:18:2002:09:18:52	1575	79.9	80.2	15.8	85.3	27186	146.9	430.4
02:18:2002:09:18:58	Rate/Psi							
02:18:2002:09:18:58	1593	79.9	80.2	15.8	86.9	27166	149.6	438.4
02:18:2002:09:19:02	1602	79.9	80.2	15.8	87.9	27095	151.4	443.7
02:18:2002:09:19:12	1620	79.7	80.2	15.8	90.6	27035	155.9	457.0
02:18:2002:09:19:22	1639	79.5	80.2	15.8	93.2	27035	160.4	470.2
02:18:2002:09:19:32	1657	79.5	80.2	15.8	95.8	27035	164.9	483.5
02:18:2002:09:19:42	1671	79.5	80.2	15.8	98.5	27035	169.4	496.7
02:18:2002:09:19:52	1675	79.5	80.2	15.8	101.1	27045	173.9	510.0
02:18:2002:09:20:02	1685	79.5	80.2	15.8	103.7	27025	178.4	523.2
02:18:2002:09:20:12	1685	79.5	80.2	15.8	106.3	27025	182.9	536.5
02:18:2002:09:20:22	1685	79.5	80.2	15.8	109.0	27025	187.4	549.8
02:18:2002:09:20:24	Rate/Psi							
02:18:2002:09:20:24	1685	79.6	80.2	15.8	109.5	27025	188.4	552.4
02:18:2002:09:20:32	1685	79.6	80.1	15.8	111.6	27035	192.0	563.0
02:18:2002:09:20:42	1685	79.7	80.1	15.8	114.2	27055	196.5	576.3
02:18:2002:09:20:52	1680	79.9	80.1	15.8	116.9	27135	201.0	589.5
02:18:2002:09:21:02	1675	79.8	80.1	15.8	119.5	27065	205.5	602.9
02:18:2002:09:21:12	1675	79.9	80.2	15.8	122.1	27186	210.0	616.1
02:18:2002:09:21:22	1675	80.0	80.2	15.9	124.8	27216	214.6	629.5
02:18:2002:09:21:32	1675	80.2	80.2	16.0	127.4	27216	219.1	642.8
02:18:2002:09:21:42	1675	80.2	80.2	16.0	130.1	27226	223.6	656.2
02:18:2002:09:21:52	1671	79.9	80.2	16.0	132.8	26974	228.2	669.6
02:18:2002:09:22:02	1666	80.2	80.2	16.0	135.4	27206	232.7	682.9
02:18:2002:09:22:12	1666	80.2	80.2	16.0	138.1	27579	237.2	696.3
02:18:2002:09:22:22	1662	79.7	80.1	16.0	140.8	27196	241.7	709.6
02:18:2002:09:22:32	1662	81.1	80.1	16.0	143.4	27579	246.3	723.1
02:18:2002:09:22:36	Rate/Psi							
02:18:2002:09:22:36	1662	81.0	80.0	16.0	144.5	27559	248.2	728.5
02:18:2002:09:22:42	1662	80.9	80.0	16.0	146.1	27498	250.9	736.6
02:18:2002:09:22:52	1662	81.0	80.0	16.0	148.8	27488	255.5	750.1
02:18:2002:09:23:02	1657	80.8	80.0	16.0	151.5	27478	260.1	763.5
02:18:2002:09:23:12	1657	80.8	80.1	16.0	154.1	27478	264.7	777.0
02:18:2002:09:23:22	1657	80.8	80.1	16.0	156.8	27488	269.3	790.5
02:18:2002:09:23:32	1657	80.9	80.2	16.0	159.5	27488	273.8	804.0
02:18:2002:09:23:42	1653	80.9	80.2	16.0	162.1	27498	278.4	817.4
02:18:2002:09:23:52	1653	80.9	80.2	16.0	164.8	27498	283.0	830.9
02:18:2002:09:24:02	1653	80.9	80.2	16.0	167.5	27498	287.6	844.4
02:18:2002:09:24:12	1653	80.9	80.2	16.0	170.2	27498	292.2	857.9
02:18:2002:09:24:22	1653	80.8	80.2	16.0	172.8	27498	296.7	871.4
02:18:2002:09:24:32	1648	80.8	80.2	16.0	175.5	27498	301.3	884.8
02:18:2002:09:24:40	Rate/Psi							
02:18:2002:09:24:40	1653	80.9	80.2	16.0	177.6	27488	305.0	895.6
02:18:2002:09:24:42	1653	80.8	80.2	16.0	178.2	27498	305.9	898.3
02:18:2002:09:24:52	1648	80.9	80.2	16.0	180.9	27498	310.5	911.8
02:18:2002:09:25:02	1648	80.9	80.2	16.0	183.5	27488	315.1	925.3
02:18:2002:09:25:12	1653	80.9	80.2	16.2	186.2	27528	319.7	938.8
02:18:2002:09:25:22	1648	80.9	80.2	16.2	188.9	27478	324.2	952.2
02:18:2002:09:25:32	1648	80.9	80.2	16.0	191.5	27498	328.8	965.7
02:18:2002:09:25:42	1648	80.9	80.2	16.0	194.2	27508	333.4	979.2
02:18:2002:09:25:52	1643	80.9	80.2	16.0	196.9	27508	338.0	992.7
02:18:2002:09:26:02	1648	80.9	80.2	16.0	199.6	27508	342.6	1006.2
02:18:2002:09:26:12	1643	81.0	80.2	16.0	202.2	27488	347.2	1019.7
02:18:2002:09:26:22	1643	80.9	80.2	16.2	204.9	27488	351.7	1033.1
02:18:2002:09:26:32	1643	80.9	80.2	16.0	207.6	27488	356.3	1046.6
02:18:2002:09:26:42	1643	80.9	80.2	16.0	210.3	27488	360.9	1060.1
02:18:2002:09:26:52	1643	80.9	80.2	16.0	212.9	27478	365.5	1073.6
02:18:2002:09:27:02	Rate/Psi							
02:18:2002:09:27:02	1639	80.9	80.2	16.0	215.6	27498	370.1	1087.1
02:18:2002:09:27:12	1639	80.9	80.2	16.0	218.3	27498	374.7	1100.5
02:18:2002:09:27:22	1639	80.8	80.2	16.0	221.0	27488	379.2	1114.0
02:18:2002:09:27:32	1639	81.0	80.2	16.0	223.6	27498	383.8	1127.5
02:18:2002:09:27:42	1634	80.9	80.2	16.0	226.3	27498	388.4	1141.0
02:18:2002:09:27:52	1639	80.9	80.2	16.0	229.0	27498	393.0	1154.5
02:18:2002:09:28:02	1634	81.0	80.2	16.0	231.7	27498	397.6	1168.0
02:18:2002:09:28:12	1634	80.8	80.2	16.0	234.3	27498	402.1	1181.4
02:18:2002:09:28:22	1634	80.9	80.2	16.0	237.0	27488	406.7	1194.9
02:18:2002:09:28:32	1634	80.8	80.2	16.0	239.7	27478	411.3	1208.4
02:18:2002:09:28:42	1634	80.9	80.2	16.0	242.4	27488	415.9	1221.9
02:18:2002:09:28:52	1634	81.0	80.2	16.0	245.0	27488	420.5	1235.4
02:18:2002:09:29:02	1634	80.9	80.2	16.0	247.7	27478	425.1	1248.8
02:18:2002:09:29:12	1630	80.8	80.2	16.0	250.4	27488	429.6	1262.3
02:18:2002:09:29:22	1630	80.8	80.2	16.0	253.1	27488	434.2	1275.8

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AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	INJ RATE bbl/min	BH FOAM QUALITY %	SLUR RATE bbl/min	TOT SLUR bbl	N2 RATE scf/min	TOT N2 Mscf	TOT INJ bbl
02:18:2002:09:29:32	1630	80.9	80.2	16.0	255.7	27488	438.8	1289.3
<b>Rate/Psi</b>								
02:18:2002:09:29:36	1630	80.9	80.2	16.0	256.8	27498	440.6	1294.7
02:18:2002:09:29:42	1630	80.8	80.2	16.2	258.4	27468	443.4	1302.8
02:18:2002:09:29:52	1630	80.9	80.2	16.0	261.1	27448	448.0	1316.2
02:18:2002:09:30:02	1625	80.7	80.2	16.0	263.8	27448	452.5	1329.7
02:18:2002:09:30:12	1625	80.8	80.1	16.0	266.4	27448	457.1	1343.1
02:18:2002:09:30:22	1625	80.8	80.1	16.2	269.1	27448	461.7	1356.6
02:18:2002:09:30:32	1625	80.7	80.1	16.0	271.8	27407	466.2	1370.1
02:18:2002:09:30:42	1620	80.7	80.1	16.2	274.5	27418	470.8	1383.5
02:18:2002:09:30:52	1620	80.8	80.1	16.0	277.1	27428	475.4	1397.0
02:18:2002:09:31:02	1620	80.7	80.1	16.0	279.8	27428	480.0	1410.4
02:18:2002:09:31:12	1620	80.7	80.1	16.0	282.5	27407	484.5	1423.9
02:18:2002:09:31:22	1616	80.7	80.1	16.0	285.2	27407	489.1	1437.3
02:18:2002:09:31:32	1616	80.7	80.1	16.0	287.8	27418	493.7	1450.8
02:18:2002:09:31:42	1616	80.7	80.1	16.2	290.5	27397	498.2	1464.3
02:18:2002:09:31:52	1611	80.8	80.1	16.0	293.2	27397	502.8	1477.7
02:18:2002:09:32:02	1611	80.8	80.1	16.0	295.9	27407	507.4	1491.2
02:18:2002:09:32:12	1607	80.7	80.1	16.0	298.5	27407	511.9	1504.6
02:18:2002:09:32:22	1611	80.8	80.1	16.0	301.2	27407	516.5	1518.1
02:18:2002:09:32:32	1602	80.6	80.1	16.2	303.9	27397	521.1	1531.5
02:18:2002:09:32:42	1607	80.6	80.1	16.0	306.6	27397	525.6	1544.9
<b>Rate/Psi</b>								
02:18:2002:09:32:49	1602	80.6	80.1	16.2	308.5	27407	528.8	1554.4
02:18:2002:09:32:52	1602	80.7	80.1	16.2	309.3	27397	530.2	1558.4
02:18:2002:09:33:02	1602	80.8	80.1	16.0	311.9	27397	534.8	1571.8
02:18:2002:09:33:12	1602	80.8	80.1	16.0	314.6	27397	539.3	1585.3
02:18:2002:09:33:22	1602	80.6	80.1	16.0	317.3	27397	543.9	1598.7
02:18:2002:09:33:32	1602	80.6	80.1	16.2	320.0	27387	548.5	1612.2
02:18:2002:09:33:42	1602	80.7	80.1	16.0	322.6	27377	553.0	1625.6
02:18:2002:09:33:52	1602	80.7	80.1	16.0	325.3	27357	557.6	1639.1
02:18:2002:09:34:02	1602	80.6	80.1	16.0	328.0	27377	562.2	1652.5
02:18:2002:09:34:12	1598	80.8	80.1	16.0	330.7	27377	566.7	1665.9
02:18:2002:09:34:22	1598	80.5	80.1	16.0	333.4	27377	571.3	1679.4
02:18:2002:09:34:32	1593	80.5	80.1	16.2	336.0	27367	575.8	1692.8
02:18:2002:09:34:42	1588	80.7	80.1	16.0	338.7	27367	580.4	1706.3
02:18:2002:09:34:52	1588	80.6	80.1	16.2	341.4	27367	585.0	1719.7
02:18:2002:09:35:02	1588	80.5	80.1	16.0	344.1	27357	589.5	1733.1
02:18:2002:09:35:12	1588	80.5	80.1	16.0	346.8	27357	594.1	1746.6
02:18:2002:09:35:22	1588	80.5	80.1	16.2	349.4	27347	598.6	1760.0
02:18:2002:09:35:32	1588	80.7	80.1	16.0	352.1	27347	603.2	1773.4
02:18:2002:09:35:42	1588	80.5	80.1	16.0	354.8	27337	607.8	1786.8
02:18:2002:09:35:52	1588	80.5	80.1	16.2	357.5	27357	612.3	1800.3
02:18:2002:09:36:02	1588	80.7	80.1	16.0	360.1	27347	616.9	1813.7
02:18:2002:09:36:12	1588	80.5	80.1	16.0	362.8	27337	621.4	1827.1
02:18:2002:09:36:22	1593	80.5	80.1	16.0	365.5	27347	626.0	1840.6
02:18:2002:09:36:32	1588	80.5	80.1	16.0	368.2	27357	630.6	1854.0
<b>Rate/Psi</b>								
02:18:2002:09:36:38	1588	80.5	80.1	16.0	369.8	27347	633.3	1862.0
02:18:2002:09:36:42	1588	80.5	80.1	16.2	370.9	27347	635.1	1867.4
02:18:2002:09:36:52	1593	80.5	80.1	16.2	373.5	27327	639.7	1880.8
02:18:2002:09:37:02	1593	80.7	80.1	16.0	376.2	27347	644.2	1894.3
02:18:2002:09:37:12	1588	80.5	80.1	16.0	378.9	27347	648.8	1907.7
02:18:2002:09:37:22	1588	80.5	80.1	16.2	381.6	27327	653.3	1921.1
02:18:2002:09:37:32	1588	80.5	80.1	16.2	384.2	27347	657.9	1934.5
02:18:2002:09:37:42	1588	80.5	80.1	16.0	386.9	27327	662.5	1948.0
02:18:2002:09:37:52	1588	80.5	80.1	16.0	389.6	27327	667.0	1961.4
02:18:2002:09:38:02	1588	80.6	80.1	16.0	392.3	27327	671.6	1974.8
02:18:2002:09:38:12	1588	80.5	80.1	16.0	395.0	27317	676.1	1988.2
02:18:2002:09:38:22	1584	80.6	80.0	16.0	397.6	27317	680.7	2001.6
02:18:2002:09:38:32	1584	80.6	80.0	16.0	400.3	27307	685.2	2015.1
02:18:2002:09:38:42	1584	80.5	80.0	16.2	403.0	27317	689.8	2028.5
02:18:2002:09:38:52	1584	80.5	80.0	16.0	405.7	27327	694.3	2041.9
02:18:2002:09:39:02	1584	80.6	80.0	16.0	408.4	27327	698.9	2055.3
<b>Rate/Psi</b>								
02:18:2002:09:39:06	1584	80.4	80.0	16.2	409.4	27327	700.7	2060.7
02:18:2002:09:39:12	1584	80.6	80.0	16.0	411.0	27327	703.4	2068.7
02:18:2002:09:39:22	1584	80.6	80.0	16.0	413.7	27327	708.0	2082.2
02:18:2002:09:39:32	1579	80.6	80.0	16.0	416.4	27317	712.5	2095.6
02:18:2002:09:39:42	1584	80.6	80.0	16.0	419.1	27327	717.1	2109.0
02:18:2002:09:39:52	1584	80.5	80.0	16.0	421.8	27327	721.7	2122.4
02:18:2002:09:40:02	1584	80.5	80.0	16.2	424.4	27317	726.2	2135.8
02:18:2002:09:40:12	1584	80.5	80.0	16.2	427.1	27337	730.8	2149.3
02:18:2002:09:40:22	1584	80.6	80.0	16.0	429.8	27327	735.3	2162.7
02:18:2002:09:40:32	1584	80.6	80.0	16.0	432.5	27337	739.9	2176.1
02:18:2002:09:40:42	1579	80.6	80.0	16.0	435.2	27327	744.4	2189.5
02:18:2002:09:40:52	1579	80.5	80.0	16.2	437.8	27337	749.0	2203.0
02:18:2002:09:41:02	1579	80.6	80.0	16.0	440.5	27337	753.5	2216.4

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Well: MDC RUSH 1-3

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	INJ RATE bbl/min	BH FOAM QUALITY %	SLUR RATE bbl/min	TOT SLUR bbl	N2 RATE scf/min	TOT N2 Mscf	TOT INJ bbl
02:18:2002:09:41:12	1579	80.6	80.0	16.0	443.2	27327	758.1	2229.8
02:18:2002:09:41:22	1579	80.5	80.0	16.2	445.9	27327	762.7	2243.2
02:18:2002:09:41:32	1579	80.5	80.0	16.2	448.6	27337	767.2	2256.7
02:18:2002:09:41:42	1579	80.5	80.0	16.0	451.2	27327	771.8	2270.1
02:18:2002:09:41:52	1584	80.7	80.0	16.0	453.9	27337	776.3	2283.5
02:18:2002:09:42:02	1579	80.6	80.0	16.0	456.6	27347	780.9	2296.9
02:18:2002:09:42:12	1579	80.6	80.0	16.0	459.3	27337	785.4	2310.4
02:18:2002:09:42:22	1579	80.6	80.0	16.0	462.0	27337	790.0	2323.8
02:18:2002:09:42:32	1579	80.5	80.0	16.2	464.6	27337	794.5	2337.2
02:18:2002:09:42:42	1579	80.7	80.0	16.2	467.3	27327	799.1	2350.6
02:18:2002:09:42:52	1579	80.6	80.0	16.0	470.0	27327	803.6	2364.0
02:18:2002:09:43:02	1579	80.5	80.0	16.2	472.7	27317	808.2	2377.5
<b>02:18:2002:09:43:03 Rate/Psi</b>								
02:18:2002:09:43:03	1579	80.6	80.0	16.0	473.0	27327	808.7	2378.8
02:18:2002:09:43:12	1579	80.5	80.0	16.0	475.4	27307	812.8	2390.9
02:18:2002:09:43:22	1579	80.6	80.0	16.0	478.0	27317	817.3	2404.3
02:18:2002:09:43:32	1579	80.5	80.0	16.2	480.7	27337	821.9	2417.7
02:18:2002:09:43:42	1579	80.5	80.0	16.2	483.4	27337	826.4	2431.2
02:18:2002:09:43:52	1579	80.5	80.0	16.2	486.1	27337	831.0	2444.6
02:18:2002:09:44:02	1579	80.6	80.0	16.0	488.8	27337	835.5	2458.0
02:18:2002:09:44:12	1579	80.6	80.0	16.0	491.5	27327	840.1	2471.4
02:18:2002:09:44:22	1579	80.7	80.0	16.0	494.1	27327	844.6	2484.9
02:18:2002:09:44:32	1584	80.5	80.0	16.2	496.8	27347	849.2	2498.3
02:18:2002:09:44:42	1588	80.5	80.0	16.2	499.5	27327	853.8	2511.7
02:18:2002:09:44:52	1593	80.6	80.0	16.0	502.2	27327	858.3	2525.1
02:18:2002:09:45:02	1598	80.5	80.0	16.0	504.9	27327	862.9	2538.6
02:18:2002:09:45:12	1602	80.5	80.0	16.2	507.5	27327	867.4	2552.0
02:18:2002:09:45:22	1611	80.6	80.0	16.0	510.2	27327	872.0	2565.4
02:18:2002:09:45:32	1616	80.6	80.0	16.0	512.9	27327	876.5	2578.8
02:18:2002:09:45:42	1625	80.6	80.0	16.0	515.6	27297	881.1	2592.2
02:18:2002:09:45:52	1630	80.7	80.0	16.0	518.3	27377	885.6	2605.7
02:18:2002:09:46:02	1634	80.6	80.0	16.2	520.9	27367	890.2	2619.1
02:18:2002:09:46:12	1634	80.6	80.0	16.0	523.6	27357	894.8	2632.5
02:18:2002:09:46:22	1634	80.6	80.0	16.0	526.3	27387	899.3	2646.0
02:18:2002:09:46:32	1634	80.7	80.0	16.0	529.0	27367	903.9	2659.4
<b>02:18:2002:09:46:39 Rate/Psi</b>								
02:18:2002:09:46:39	1630	80.6	80.0	16.2	530.9	27377	907.1	2668.8
02:18:2002:09:46:42	1630	80.6	80.1	16.2	531.7	27387	908.4	2672.9
02:18:2002:09:46:52	1630	80.6	80.1	16.2	534.3	27377	913.0	2686.3
02:18:2002:09:47:02	1625	80.6	80.1	16.2	537.0	27377	917.6	2699.7
02:18:2002:09:47:12	1620	80.6	80.1	16.2	539.7	27377	922.1	2713.2
02:18:2002:09:47:22	1616	80.5	80.1	16.2	542.4	27377	926.7	2726.6
02:18:2002:09:47:32	1616	80.7	80.1	16.0	545.1	27377	931.3	2740.1
02:18:2002:09:47:42	1611	80.7	80.1	16.0	547.7	27367	935.8	2753.5
02:18:2002:09:47:52	1543	65.1	80.1	0.0	549.9	27367	940.4	2766.7
<b>02:18:2002:09:47:54 Started Flush Manually</b>								
02:18:2002:09:47:54	1524	64.5	80.1	0.0	549.9	27367	941.3	2768.9
02:18:2002:09:48:02	1483	64.5	80.1	0.0	549.9	27377	944.9	2777.5
02:18:2002:09:48:12	1469	64.6	80.1	0.0	549.9	27357	949.5	2788.3
02:18:2002:09:48:22	1465	64.5	80.1	0.0	550.0	27377	954.1	2799.0
02:18:2002:09:48:32	1460	64.6	80.1	0.0	550.0	27357	958.6	2809.8
02:18:2002:09:48:42	1465	64.5	80.1	0.0	550.0	27357	963.2	2820.5
02:18:2002:09:48:52	1465	64.5	84.8	0.0	550.0	27357	967.7	2831.3
<b>02:18:2002:09:48:58 Stage at Perfs: Flush</b>								
02:18:2002:09:48:58	1382	43.7	0.0	0.0	550.0	11311	970.1	2837.4
02:18:2002:09:49:02	1318	0.2	0.0	0.0	550.0	0	970.3	2838.4
<b>02:18:2002:09:49:08 Shutdown - ISIP</b>								
02:18:2002:09:49:08	1277	0.1	0.0	0.1	550.0	0	970.3	2838.4
02:18:2002:09:49:12	1263	0.0	0.0	0.0	550.0	0	970.3	2838.4
02:18:2002:09:49:22	1245	0.1	0.0	0.0	550.0	0	970.3	2838.4
02:18:2002:09:49:32	1236	0.1	0.0	0.1	550.0	0	970.3	2838.4
02:18:2002:09:49:42	1227	0.0	0.0	0.0	550.0	0	970.3	2838.4
02:18:2002:09:49:52	1222	0.3	0.0	0.1	550.0	0	970.3	2838.4

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