

MAY 28 2003

Form ACO-1
September 1999
Form Must Be Typed

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

CONSERVATION DIVISION
WICHITA, KS

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: _____
 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: THORNE #1 UNIT, WELL #3
 Original Comp. Date: 8-30-95 Original Total Depth: 2905
 _____ 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>3-15-02</u>	<u>8-5-95</u>	<u>3-23-02</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 081-20934-00-01
 County: HASKELL
NE SW SW Sec. 19 Twp. 28 S. R. 33 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: THORNE #1 UNIT Well #: 3
 Field Name: Hugoton
 Producing Formation: Chase
 Elevation: Ground: 2971 Kelly Bushing: 2982
 Total Depth: 2905 Plug Back Total Depth: 2850
 Amount of Surface Pipe Set and Cemented at 807 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 OWWO KJR 2-5-08
 (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.: _____

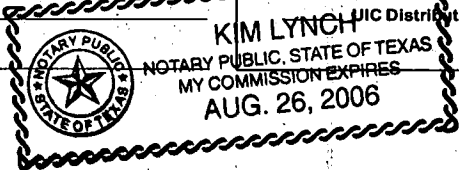
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side 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: Beverly Roppolo
 Title: Contract Completions Admin Date: 5/21/03
 Subscribed and sworn to before me this 21 day of May
2003
 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
 _____ Report Received

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



Operator Name: Exxon Mobil Oil Corporation * Lease Name: THORNE #1 UNIT Well #: 3
 Sec. 19 Twp. 28 S. R. 33 East West County: HASKELL

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, tripping 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 (Attach Additional Sheets) 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 (Submit Copy) 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>2612'</td> <td>2622'</td> </tr> <tr> <td>L. KRIDER</td> <td>2643'</td> <td>2653'</td> </tr> <tr> <td>WINFIELD</td> <td>2687'</td> <td>2697'</td> </tr> <tr> <td>TOWANDA</td> <td>2736'</td> <td>2744'</td> </tr> <tr> <td>TOWANDA</td> <td>2750'</td> <td>2760'</td> </tr> </table>	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	U. KRIDER	2612'	2622'	L. KRIDER	2643'	2653'	WINFIELD	2687'	2697'	TOWANDA	2736'	2744'	TOWANDA	2750'	2760'
<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample																				
Name	Top	Datum																				
U. KRIDER	2612'	2622'																				
L. KRIDER	2643'	2653'																				
WINFIELD	2687'	2697'																				
TOWANDA	2736'	2744'																				
TOWANDA	2750'	2760'																				

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#	807	CLASS C	425	50:50 c/poz
PRODUCTION	7.875	5.500	14#	2895	CLASS C	300, 150	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	2612' - 2697'	FRAC'D WELL WITH 986,200 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)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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

ORIGINAL

<p style="text-align: center; font-weight: bold; font-size: 1.2em;">Schlumberger</p> <p style="font-size: 0.8em;">Job Date: 03-19-2002</p>	<p>Customer: Exxon Mobil District: Ulysses Representative: Richard Lewis DS Supervisor: Dave Brawley Well: Thorn 1-3</p>
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AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	SURF FOAM QUALITY %	INJ RATE bbl/min	SLUR RATE bbl/min	N2 RATE scf/min	TOT INJ bbl	TOT SLUR bbl	TOT N2 Mscf
03:19:2002:10:34:49	78	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:34:54	Pressure Test Lines							
03:19:2002:10:34:54	119	0.0	0.9	0.8	0	0.0	0.0	0.0
03:19:2002:10:34:59	188	0.0	0.3	0.4	0	0.0	0.0	0.0
03:19:2002:10:35:09	211	0.0	0.3	0.4	0	0.0	0.0	0.0
03:19:2002:10:35:19	270	0.0	0.1	0.0	0	0.0	0.0	0.0
03:19:2002:10:35:29	444	0.0	0.1	0.0	0	0.0	0.0	0.0
03:19:2002:10:35:39	513	0.0	0.1	0.3	0	0.0	0.0	0.0
03:19:2002:10:35:49	819	0.0	0.8	0.1	0	0.0	0.0	0.0
03:19:2002:10:35:59	2065	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:36:09	2921	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:36:19	2847	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:36:29	3062	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:36:39	3035	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:36:49	3017	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:36:59	3007	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:37:09	3003	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:37:19	2998	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:37:29	2994	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:37:39	2994	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:37:49	2989	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:37:59	2989	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:38:09	2985	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:38:19	2985	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:38:29	2971	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:38:39	2957	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:38:49	2953	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:38:59	2943	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:39:09	2939	0.0	0.0	0.0	3112	0.0	0.0	0.0
03:19:2002:10:39:19	2930	0.0	0.0	0.0	3212	0.0	0.0	0.0
03:19:2002:10:39:29	2921	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:39:39	2911	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:39:49	2902	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:39:59	2898	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:40:09	2884	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:40:19	2879	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:40:29	2870	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:40:39	2861	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:40:49	2856	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:40:59	2847	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:41:09	2838	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:41:19	2834	0.0	0.0	0.0	1961	0.0	0.0	0.0
03:19:2002:10:41:29	2820	0.0	0.0	0.0	2761	0.0	0.0	0.0
03:19:2002:10:41:39	2843	0.0	0.0	0.0	2621	0.0	0.0	0.0
03:19:2002:10:41:49	2870	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:41:59	2898	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:42:09	2925	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:42:19	2953	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:42:29	2975	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:42:39	2998	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:42:49	3021	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:42:59	3003	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:43:09	2998	0.0	0.0	0.3	0	0.0	0.0	0.0
03:19:2002:10:43:19	2994	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:43:29	2994	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:43:39	2806	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:43:49	2811	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:43:59	105	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:44:09	119	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:44:19	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:44:29	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:44:39	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:44:49	133	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:44:59	133	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:45:09	133	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:45:19	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:45:29	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:45:39	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:45:49	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:45:59	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:46:09	128	0.0	0.0	0.0	0	0.0	0.0	0.0

RECEIVED
KANSAS CORPORATION COMMISSION

MAY 28 2003

CONSERVATION DIVISION
WICHITA, KS

ORIGINAL

Well: Thorn 1-3

Job Date: 03-19-2002

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	SURF FOAM QUALITY %	INJ RATE bbl/min	SLUR RATE bbl/min	N2 RATE scf/min	TOT INJ bbl	TOT SLUR bbl	TOT N2 Mscf
03:19:2002:10:46:39	133	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:46:49	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:46:59	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:47:09	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:47:19	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:47:29	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:47:39	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:47:49	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:47:59	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:48:09	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:48:19	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:48:29	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:48:39	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:48:49	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:48:59	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:49:09	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:49:19	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:49:29	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:49:39	119	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:49:49	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:49:59	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:50:09	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:50:19	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:50:29	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:50:39	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:50:49	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:50:59	119	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:51:09	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:51:19	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:51:29	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:51:39	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:51:49	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:51:59	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:52:09	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:52:19	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:52:29	119	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:52:39	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:52:49	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:52:59	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:53:09	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:53:19	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:53:29	119	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:53:39	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:53:49	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:53:59	119	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:54:09	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:54:19	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:54:29	128	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:54:39	124	0.0	0.0	0.0	0	0.0	0.0	0.0
03:19:2002:10:54:49	124	0.0	0.0	0.0	2241	0.0	0.0	0.0
03:19:2002:10:54:51	Started Pad							
03:19:2002:10:54:51	124	0.0	0.0	0.0	2421	0.0	0.0	0.0
03:19:2002:10:54:59	128	100.0	11.8	0.0	5023	0.7	0.0	0.4
03:19:2002:10:55:09	124	100.0	13.4	0.0	5753	2.9	0.0	1.3
03:19:2002:10:55:19	128	100.0	33.4	0.0	14247	7.1	0.0	3.3
03:19:2002:10:55:29	128	100.0	37.5	0.0	16248	12.8	0.0	5.7
03:19:2002:10:55:39	124	100.0	33.2	0.0	14067	18.9	0.0	8.3
03:19:2002:10:55:49	124	100.0	32.4	0.0	13977	24.4	0.0	10.6
03:19:2002:10:55:59	334	100.0	35.1	0.0	14878	30.1	0.0	13.0
03:19:2002:10:56:09	366	98.9	35.6	0.3	14918	36.0	0.0	15.5
03:19:2002:10:56:19	403	87.1	40.6	5.6	14948	42.4	0.7	18.0
03:19:2002:10:56:29	398	84.3	40.0	6.6	13687	49.3	1.7	20.5
03:19:2002:10:56:39	417	82.8	40.7	7.3	14898	55.7	2.8	22.7
03:19:2002:10:56:49	421	80.6	40.0	7.6	13587	62.7	4.1	25.1
03:19:2002:10:56:51	Stage at Perfs: Pad							
03:19:2002:10:56:51	430	80.8	39.8	7.8	13567	64.0	4.4	25.6
03:19:2002:10:56:59	426	79.9	39.9	8.1	13557	69.3	5.4	27.4
03:19:2002:10:57:09	426	79.7	40.0	8.0	13567	76.0	6.8	29.7
03:19:2002:10:57:19	Increase Pump Rate							
03:19:2002:10:57:19	417	69.9	26.6	8.1	6894	82.4	8.1	31.7
03:19:2002:10:57:29	494	83.0	64.6	11.8	22282	89.5	9.9	34.2
03:19:2002:10:57:39	613	80.1	70.2	14.1	24363	100.4	12.0	38.0
03:19:2002:10:57:49	700	80.9	76.7	14.8	26284	112.9	14.4	42.3
03:19:2002:10:57:59	824	80.5	78.2	15.4	26664	125.8	16.9	46.7
03:19:2002:10:58:09	943	80.1	78.5	15.5	26764	138.8	19.5	51.2
03:19:2002:10:58:19	1039	80.0	78.8	15.9	26774	152.0	22.1	55.6
03:19:2002:10:58:29	1158	80.0	78.8	15.9	26734	165.1	24.8	60.1
03:19:2002:10:58:39	1250	80.0	78.9	15.8	26964	178.3	27.4	64.5

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CONSERVATION DIVISION
WICHITA, KS

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	SURF FOAM QUALITY %	INJ RATE bbl/min	SLUR RATE bbl/min	N2 RATE scf/min	TOT INJ bbl	TOT SLUR bbl	TOT N2 Mscf
03:19:2002:10:58:49	1318	80.2	79.3	15.8	26964	191.6	30.0	69.1
03:19:2002:10:58:59	1369	80.5	80.8	15.8	27604	205.0	32.7	73.6
03:19:2002:10:59:09	1447	80.5	81.0	15.6	27594	218.5	35.3	78.3
03:19:2002:10:59:19	1492	80.5	80.7	15.8	27574	231.9	37.9	82.9
03:19:2002:10:59:29	1511	80.5	80.7	15.8	27574	245.4	40.5	87.5
03:19:2002:10:59:39	1529	80.5	80.2	15.6	27324	258.0	43.1	91.7
03:19:2002:10:59:49	1556	80.5	80.2	15.6	27314	271.4	45.8	96.2
03:19:2002:10:59:59	1561	80.3	80.1	15.6	27354	284.7	48.4	100.8
03:19:2002:11:00:09	1561	80.4	80.3	15.6	27404	298.1	51.0	105.4
03:19:2002:11:00:19	1570	80.5	80.4	15.6	27404	311.5	53.6	109.9
03:19:2002:11:00:29	1561	80.5	80.3	15.8	27414	324.9	56.2	114.5
03:19:2002:11:00:39	1579	80.4	80.3	15.6	27414	338.3	58.8	119.1
03:19:2002:11:00:49	1588	80.1	80.6	16.0	27414	351.7	61.5	123.6
03:19:2002:11:00:59	1566	80.1	80.6	16.0	27414	365.1	64.1	128.2
03:19:2002:11:01:09	1552	80.1	80.6	16.0	27414	378.5	66.8	132.8
03:19:2002:11:01:19	1556	80.1	80.7	15.9	27394	392.0	69.5	137.3
03:19:2002:11:01:29	1579	80.1	80.7	16.0	27414	405.4	72.1	141.9
03:19:2002:11:01:39	1579	80.3	80.7	16.0	27414	418.9	74.8	146.5
03:19:2002:11:01:49	1575	80.1	80.7	16.0	27404	432.3	77.5	151.0
03:19:2002:11:01:59	1552	80.1	80.7	16.0	27384	445.7	80.1	155.6
03:19:2002:11:02:09	1566	80.3	80.7	16.0	27404	459.2	82.8	160.2
03:19:2002:11:02:19	1566	80.1	80.6	16.0	27414	472.6	85.5	164.7
03:19:2002:11:02:29	1570	80.1	80.7	15.9	27414	486.1	88.1	169.3
03:19:2002:11:02:39	1547	80.3	80.7	16.0	27434	499.5	90.8	173.9
03:19:2002:11:02:49	1552	80.1	80.7	16.0	27434	513.0	93.5	178.5
03:19:2002:11:02:59	1566	80.1	80.7	16.0	27434	526.4	96.1	183.0
03:19:2002:11:03:09	1552	80.1	80.7	15.9	27414	539.9	98.8	187.6
03:19:2002:11:03:19	1566	80.1	80.7	16.0	27434	553.3	101.5	192.2
03:19:2002:11:03:29	1543	80.1	80.7	16.0	27434	566.8	104.2	196.7
03:19:2002:11:03:39	1561	80.2	80.8	16.0	27444	580.2	106.8	201.3
03:19:2002:11:03:49	1556	80.2	80.8	16.0	27444	593.7	109.5	205.9
03:19:2002:11:03:59	1570	80.2	80.8	16.0	27454	607.1	112.2	210.5
03:19:2002:11:04:09	1543	80.1	80.7	16.0	27454	620.6	114.8	215.0
03:19:2002:11:04:19	1538	80.2	80.8	16.0	27454	634.1	117.5	219.6
03:19:2002:11:04:29	1543	80.2	80.8	16.0	27454	647.5	120.2	224.2
03:19:2002:11:04:39	1561	80.2	80.8	16.0	27454	661.0	122.8	228.8
03:19:2002:11:04:49	1529	80.2	80.8	16.0	27454	674.4	125.5	233.3
03:19:2002:11:04:59	1534	80.2	80.8	16.2	27454	687.9	128.2	237.9
03:19:2002:11:05:09	1552	80.2	80.8	16.0	27454	701.4	130.9	242.5
03:19:2002:11:05:19	1534	80.1	80.9	16.0	27454	714.8	133.5	247.1
03:19:2002:11:05:29	1543	80.2	80.8	16.0	27444	728.3	136.2	251.6
03:19:2002:11:05:39	1547	80.2	80.8	16.0	27444	741.8	138.9	256.2
03:19:2002:11:05:49	1534	80.2	80.8	16.0	27444	755.2	141.6	260.8
03:19:2002:11:05:59	1538	80.2	80.8	16.0	27434	768.7	144.2	265.4
03:19:2002:11:06:09	1543	80.2	80.8	16.2	27454	782.1	146.9	269.9
03:19:2002:11:06:19	1543	80.2	80.8	16.0	27454	795.6	149.6	274.5
03:19:2002:11:06:29	1538	80.1	80.7	16.0	27454	809.1	152.2	279.1
03:19:2002:11:06:39	1547	80.2	80.8	16.0	27454	822.5	154.9	283.7
03:19:2002:11:06:49	1547	80.2	80.8	16.0	27444	836.0	157.6	288.2
03:19:2002:11:06:59	1534	80.2	80.8	16.0	27444	849.5	160.3	292.8
03:19:2002:11:07:09	1543	80.2	80.9	16.0	27434	862.9	162.9	297.4
03:19:2002:11:07:19	1520	80.2	80.8	16.0	27444	876.4	165.6	302.0
03:19:2002:11:07:29	1543	80.2	80.8	16.0	27454	889.8	168.3	306.5
03:19:2002:11:07:39	Rate/Psi 1529	80.1	80.9	16.0	27444	903.3	171.0	311.1
03:19:2002:11:07:49	1543	80.2	80.8	16.0	27454	916.8	173.6	315.7
03:19:2002:11:07:59	1543	80.2	80.8	16.2	27454	930.2	176.3	320.3
03:19:2002:11:08:09	1524	80.2	80.8	16.0	27454	943.7	179.0	324.8
03:19:2002:11:08:19	1547	80.2	80.9	16.0	27454	957.2	181.7	329.4
03:19:2002:11:08:29	1511	80.2	80.8	16.2	27454	970.6	184.3	334.0
03:19:2002:11:08:39	1534	80.2	80.8	16.2	27444	984.1	187.0	338.6
03:19:2002:11:08:49	1515	80.1	80.7	16.0	27454	997.6	189.7	343.1
03:19:2002:11:08:59	1538	80.2	80.8	16.2	27454	1011.0	192.4	347.7
03:19:2002:11:09:09	1538	80.2	80.9	16.0	27454	1024.5	195.0	352.3
03:19:2002:11:09:19	1538	80.2	80.9	16.0	27454	1038.0	197.7	356.9
03:19:2002:11:09:29	1538	80.2	80.8	16.0	27474	1051.4	200.4	361.4
03:19:2002:11:09:39	1515	80.2	80.9	16.0	27484	1064.9	203.1	366.0
03:19:2002:11:09:49	1543	80.2	80.8	16.2	27494	1078.4	205.7	370.6
03:19:2002:11:09:59	1520	80.0	80.8	16.0	27484	1091.9	208.4	375.2
03:19:2002:11:10:09	1524	80.2	80.8	16.0	27464	1105.3	211.1	379.8
03:19:2002:11:10:19	1515	80.2	81.0	16.0	27494	1118.8	213.8	384.3
03:19:2002:11:10:29	1534	80.2	80.9	16.0	27464	1132.3	216.4	388.9
03:19:2002:11:10:39	1524	80.2	80.9	16.0	27514	1145.8	219.1	393.5
03:19:2002:11:10:49	1529	80.1	80.9	16.0	27494	1159.3	221.8	398.1
03:19:2002:11:10:59	1547	80.1	80.9	16.0	27504	1172.8	224.5	402.7
03:19:2002:11:11:09	1515	80.2	80.8	16.2	27514	1186.2	227.1	407.2
03:19:2002:11:11:19	1529	80.1	80.9	16.0	27474	1199.7	229.8	411.8
03:19:2002:11:11:29	1547	80.2	81.0	16.0	27494	1213.2	232.5	416.4

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WICHITA, KS

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Job Date: 03-19-2002

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	SURF FOAM QUALITY %	INJ RATE bbl/min	SLUR RATE bbl/min	N2 RATE scf/min	TOT INJ bbl	TOT SLUR bbl	TOT N2 Mscf
03:19:2002:11:11:39	1534	80.2	81.0	16.0	27494	1226.7	235.2	421.0
03:19:2002:11:11:49	1534	80.2	80.9	16.2	27494	1240.2	237.9	425.6
03:19:2002:11:11:59	1552	80.1	80.9	16.0	27484	1253.7	240.5	430.2
03:19:2002:11:12:09	1543	80.1	80.9	16.0	27504	1267.2	243.2	434.8
03:19:2002:11:12:19	1524	80.1	80.9	16.0	27494	1280.7	245.9	439.3
03:19:2002:11:12:29	1543	80.2	81.0	16.0	27524	1294.1	248.6	443.9
03:19:2002:11:12:39	1547	80.2	81.0	16.0	27504	1307.6	251.2	448.5
03:19:2002:11:12:49	1529	80.2	80.9	16.2	27504	1321.1	253.9	453.1
03:19:2002:11:12:59	1543	80.2	80.9	16.2	27504	1334.6	256.6	457.7
03:19:2002:11:13:09	1547	80.2	81.0	16.0	27504	1348.1	259.3	462.3
03:19:2002:11:13:19	1515	80.2	81.0	16.0	27504	1361.6	262.0	466.8
03:19:2002:11:13:29	1534	80.2	81.0	16.0	27504	1375.1	264.6	471.4
03:19:2002:11:13:39	1534	80.0	80.8	16.0	27454	1388.6	267.3	476.0
03:19:2002:11:13:49	1529	80.0	80.7	16.0	27444	1402.0	270.0	480.6
03:19:2002:11:13:59	1524	80.1	80.7	16.2	27404	1415.5	272.7	485.1
03:19:2002:11:14:09	1556	80.1	80.7	16.2	27404	1428.9	275.3	489.7
03:19:2002:11:14:19	1529	80.0	80.7	16.0	27404	1442.4	278.0	494.3
03:19:2002:11:14:29	1543	80.0	80.7	16.0	27404	1455.8	280.7	498.9
03:19:2002:11:14:39	1538	80.1	80.8	16.0	27404	1469.3	283.4	503.4
03:19:2002:11:14:49	1534	80.0	80.7	16.2	27414	1482.7	286.1	508.0
03:19:2002:11:14:51								
03:19:2002:11:14:51	Rate/Psi							
03:19:2002:11:14:51	1524	80.0	80.7	16.0	27404	1485.4	286.6	508.9
03:19:2002:11:14:59	1543	80.1	80.8	16.0	27434	1496.2	288.7	512.6
03:19:2002:11:15:09	1520	80.0	80.7	16.0	27414	1509.7	291.4	517.1
03:19:2002:11:15:19	1524	80.1	80.9	16.0	27414	1523.1	294.1	521.7
03:19:2002:11:15:29	1524	80.1	80.7	16.2	27404	1536.6	296.8	526.3
03:19:2002:11:15:39	1547	80.0	80.7	16.2	27404	1550.0	299.5	530.8
03:19:2002:11:15:49	1543	80.0	80.7	16.2	27414	1563.5	302.1	535.4
03:19:2002:11:15:59	1524	80.0	80.7	16.2	27414	1576.9	304.8	540.0
03:19:2002:11:16:09	1520	80.0	80.7	16.2	27414	1590.4	307.5	544.5
03:19:2002:11:16:19	1524	80.1	80.8	16.0	27404	1603.8	310.2	549.1
03:19:2002:11:16:29	1534	80.0	80.7	16.0	27404	1617.3	312.9	553.7
03:19:2002:11:16:39	1534	80.0	80.7	16.2	27414	1630.8	315.5	558.2
03:19:2002:11:16:49	1534	80.0	80.7	16.2	27414	1644.2	318.2	562.8
03:19:2002:11:16:59	1547	80.1	80.7	16.2	27414	1657.7	320.9	567.4
03:19:2002:11:17:09	1543	80.1	80.8	16.0	27414	1671.1	323.6	572.0
03:19:2002:11:17:19	1547	80.1	80.8	16.0	27404	1684.6	326.3	576.5
03:19:2002:11:17:29	1538	80.1	80.8	16.0	27404	1698.0	328.9	581.1
03:19:2002:11:17:39	1529	80.0	80.7	16.0	27414	1711.5	331.6	585.7
03:19:2002:11:17:49	1534	80.0	80.7	16.2	27414	1724.9	334.3	590.2
03:19:2002:11:17:59	1524	80.1	80.7	16.2	27414	1738.4	337.0	594.8
03:19:2002:11:18:09	1543	80.1	80.7	16.2	27414	1751.8	339.7	599.4
03:19:2002:11:18:19	1543	80.0	80.7	16.0	27414	1765.3	342.3	603.9
03:19:2002:11:18:29	1529	80.1	80.8	16.0	27414	1778.8	345.0	608.5
03:19:2002:11:18:39	1552	80.1	80.8	16.0	27404	1792.2	347.7	613.1
03:19:2002:11:18:49	1543	80.1	80.8	16.0	27414	1805.7	350.4	617.6
03:19:2002:11:18:59	1552	80.1	80.8	16.0	27414	1819.1	353.1	622.2
03:19:2002:11:19:05								
03:19:2002:11:19:05	Rate/Psi							
03:19:2002:11:19:05	1534	80.0	80.7	16.2	27414	1827.2	354.7	624.9
03:19:2002:11:19:09	1547	80.0	80.7	16.2	27414	1832.6	355.7	626.8
03:19:2002:11:19:19	1534	80.0	80.7	16.2	27414	1846.0	358.4	631.3
03:19:2002:11:19:29	1547	80.1	80.8	16.0	27414	1859.5	361.1	635.9
03:19:2002:11:19:39	1529	80.1	80.8	16.0	27414	1873.0	363.8	640.5
03:19:2002:11:19:49	1529	80.1	80.8	16.0	27414	1886.4	366.5	645.0
03:19:2002:11:19:59	1534	80.0	80.7	16.2	27414	1899.9	369.2	649.6
03:19:2002:11:20:09	1520	80.1	80.8	16.0	27404	1913.3	371.8	654.2
03:19:2002:11:20:19	1543	80.0	80.7	16.2	27424	1926.8	374.5	658.8
03:19:2002:11:20:29	1534	80.1	80.8	16.0	27414	1940.2	377.2	663.3
03:19:2002:11:20:39	1543	80.0	80.8	16.0	27404	1953.7	379.9	667.9
03:19:2002:11:20:49	1534	80.0	80.7	16.2	27414	1967.2	382.6	672.5
03:19:2002:11:20:59	1552	80.0	80.7	16.2	27414	1980.6	385.3	677.0
03:19:2002:11:21:09	1534	80.1	80.8	16.2	27414	1994.1	387.9	681.6
03:19:2002:11:21:19	1552	80.1	80.8	16.2	27384	2007.5	390.6	686.2
03:19:2002:11:21:29	1524	80.0	80.6	16.2	27394	2021.0	393.3	690.7
03:19:2002:11:21:39	1552	80.0	80.6	16.2	27394	2034.4	396.0	695.3
03:19:2002:11:21:49	1543	80.0	80.6	16.2	27394	2047.9	398.7	699.9
03:19:2002:11:21:59	1552	80.0	80.7	16.0	27394	2061.3	401.4	704.4
03:19:2002:11:22:09	1520	80.1	80.7	16.0	27394	2074.8	404.0	709.0
03:19:2002:11:22:19	1534	80.1	80.7	16.0	27384	2088.2	406.7	713.5
03:19:2002:11:22:29	1543	80.0	80.6	16.2	27394	2101.7	409.4	718.1
03:19:2002:11:22:39	1552	80.0	80.7	16.0	27384	2115.1	412.1	722.7
03:19:2002:11:22:49	1520	80.1	80.8	16.2	27384	2128.6	414.8	727.2
03:19:2002:11:22:59	1529	80.0	80.8	16.0	27384	2142.0	417.5	731.8
03:19:2002:11:23:09	1552	80.1	80.8	16.2	27384	2155.5	420.2	736.4
03:19:2002:11:23:19	1543	80.1	80.8	16.2	27384	2168.9	422.8	740.9
03:19:2002:11:23:29	1543	80.1	80.8	16.2	27394	2182.4	425.5	745.5
03:19:2002:11:23:39	1534	80.0	80.8	16.0	27394	2195.8	428.2	750.1
03:19:2002:11:23:49	1547	80.0	80.6	16.2	27394	2209.3	430.9	754.6

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CONSERVATION DIVISION
WICHITA, KS

ORIGINAL

Well: Thom 1-3

Job Date: 03-19-2002

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	SURF FOAM QUALITY %	INJ RATE bbl/min	SLUR RATE bbl/min	N2 RATE scf/min	TOT INJ bbl	TOT SLUR bbl	TOT N2 Mscf
03:19:2002:11:23:59	1543	80.0	80.6	16.2	27394	2222.8	433.6	759.2
03:19:2002:11:24:09	1543	80.0	80.7	16.2	27394	2236.2	436.3	763.8
03:19:2002:11:24:19	1543	80.1	80.8	16.2	27384	2249.7	439.0	768.3
03:19:2002:11:24:29	1506	80.1	80.8	16.2	27394	2263.1	441.6	772.9
03:19:2002:11:24:39	1524	80.1	80.8	16.2	27394	2276.6	444.3	777.5
03:19:2002:11:24:49	1501	80.0	80.8	16.2	27394	2290.0	447.0	782.0
03:19:2002:11:24:59	1515	80.0	80.8	16.2	27414	2303.5	449.7	786.6
03:19:2002:11:25:09	1497	80.0	80.8	16.0	27404	2317.0	452.4	791.2
03:19:2002:11:25:19	1488	80.0	80.7	16.2	27404	2330.4	455.1	795.7
03:19:2002:11:25:22	Rate/Psi							
03:19:2002:11:25:22	1460	80.0	80.8	16.2	27414	2334.5	455.9	797.1
03:19:2002:11:25:29	1492	80.0	80.8	16.0	27384	2343.9	457.8	800.3
03:19:2002:11:25:39	1497	80.0	80.7	16.2	27404	2357.3	460.5	804.9
03:19:2002:11:25:49	1483	80.0	80.8	16.2	27384	2370.8	463.2	809.4
03:19:2002:11:25:59	1497	80.0	80.8	16.0	27414	2384.3	465.9	814.0
03:19:2002:11:26:09	1474	80.0	80.8	16.2	27414	2397.7	468.5	818.6
03:19:2002:11:26:19	1465	80.0	80.8	16.2	27414	2411.2	471.2	823.1
03:19:2002:11:26:29	1474	80.0	80.8	16.2	27404	2424.7	473.9	827.7
03:19:2002:11:26:39	1474	80.0	80.8	16.2	27424	2438.1	476.6	832.3
03:19:2002:11:26:49	1460	80.0	80.8	16.2	27424	2451.6	479.3	836.8
03:19:2002:11:26:59	1456	80.0	80.8	16.2	27424	2465.1	482.0	841.4
03:19:2002:11:27:09	1469	80.0	80.9	16.2	27424	2478.5	484.7	846.0
03:19:2002:11:27:19	1474	80.0	80.9	16.2	27404	2492.0	487.4	850.5
03:19:2002:11:27:29	1460	80.0	80.9	16.2	27414	2505.5	490.1	855.1
03:19:2002:11:27:39	1465	80.0	80.9	16.2	27414	2519.0	492.8	859.7
03:19:2002:11:27:49	1451	80.0	80.9	16.2	27414	2532.4	495.5	864.3
03:19:2002:11:27:59	1451	80.0	80.8	16.2	27414	2545.9	498.2	868.8
03:19:2002:11:28:09	1437	80.0	80.9	16.2	27434	2559.4	500.9	873.4
03:19:2002:11:28:19	1451	80.0	80.8	16.2	27434	2572.8	503.5	878.0
03:19:2002:11:28:29	1451	80.0	80.8	16.2	27434	2586.3	506.2	882.5
03:19:2002:11:28:39	1442	80.0	80.8	16.2	27434	2599.8	508.9	887.1
03:19:2002:11:28:49	1428	80.0	80.8	16.3	27424	2613.3	511.6	891.7
03:19:2002:11:28:59	1433	80.0	80.8	16.2	27434	2626.7	514.3	896.2
03:19:2002:11:29:09	1456	80.0	81.0	16.2	27434	2640.2	517.0	900.8
03:19:2002:11:29:19	1469	80.0	80.8	16.2	27404	2653.7	519.7	905.4
03:19:2002:11:29:29	1492	80.0	80.8	16.2	27414	2667.2	522.4	910.0
03:19:2002:11:29:39	1469	80.0	80.8	16.2	27414	2680.6	525.1	914.5
03:19:2002:11:29:49	1469	80.0	80.8	16.2	27414	2694.1	527.8	919.1
03:19:2002:11:29:59	1492	80.0	80.8	16.2	27414	2707.6	530.5	923.7
03:19:2002:11:30:05	Rate/Psi							
03:19:2002:11:30:05	1524	80.0	80.8	16.2	27424	2715.6	532.1	926.4
03:19:2002:11:30:09	1511	80.0	80.7	16.2	27404	2721.0	533.2	928.2
03:19:2002:11:30:19	1501	80.0	80.9	16.2	27404	2734.5	535.9	932.8
03:19:2002:11:30:29	1511	80.0	80.8	16.2	27404	2748.0	538.5	937.4
03:19:2002:11:30:39	1520	80.0	80.7	16.2	27394	2761.4	541.2	941.9
03:19:2002:11:30:49	1501	80.0	80.8	16.2	27414	2774.9	543.9	946.5
03:19:2002:11:30:59	1511	80.0	80.8	16.2	27434	2788.4	546.6	951.1
03:19:2002:11:31:09	1511	80.0	80.8	16.2	27434	2801.8	549.3	955.7
03:19:2002:11:31:12	Started Flush Automatically							
03:19:2002:11:31:12	1447	80.0	80.0	4.3	27414	2805.9	550.0	957.0
03:19:2002:11:31:19	1410	100.0	64.7	0.0	27414	2813.6	550.0	960.2
03:19:2002:11:31:29	1387	100.0	64.7	0.0	27414	2824.4	550.0	964.8
03:19:2002:11:31:39	1378	100.0	64.6	0.0	27404	2835.2	550.0	969.4
03:19:2002:11:31:49	1382	100.0	64.6	0.0	27404	2845.9	550.0	973.9
03:19:2002:11:31:59	1392	100.0	64.6	0.0	27404	2856.7	550.0	978.5
03:19:2002:11:32:09	1401	100.0	64.6	0.0	27404	2867.5	550.0	983.1
03:19:2002:11:32:13	Stage at Perfs: Flush							
03:19:2002:11:32:13	1392	100.0	64.6	0.0	27364	2871.8	550.0	984.9
03:19:2002:11:32:19	1286	100.0	8.3	0.0	290	2875.8	550.0	986.2
03:19:2002:11:32:30	1259	100.0	0.0	0.0	0	2875.9	550.0	986.2
03:19:2002:11:32:40	1250	100.0	0.0	0.0	0	2875.9	550.0	986.2

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