

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: \_\_\_\_\_  
 Operator Contact Person: Beverly Roppolo  
 Phone: (713) 431-1701  
 Contractor: Name: Key Energy SERVICES RECEIVED  
 License: N. A.  
 Wellsite Geologist: N. A. **JUN 03 2003**  
 Designate Type of Completion: REFRAC  
 \_\_\_\_\_ New Well \_\_\_\_\_ Re-Entry  Workover **KCC WICHITA**  
 \_\_\_\_\_ 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: KNIER #1 UNIT, WELL #3  
 Original Comp. Date: 6-24-96 Original Total Depth: 3019  
**XXX HYDRAULICALLY FRACTURED**  
 \_\_\_\_\_ 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. \_\_\_\_\_  
 1-25-99 5-21-96 2-3-99  
~~START~~ Date of **START** Date Reached TD Completion Date of  
**OF WORKOVER WORKOVER**

API No. 15 - 189-22068-0000  
 County: Stevens  
SE NW Sec. 27 Twp. 34 S. R. 37  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: KNIER #1 UNIT Well #: 3  
 Field Name: Hugoton  
 Producing Formation: Chase  
 Elevation: Ground: 3130 Kelly Bushing: 3139  
 Total Depth: 3019 Plug Back Total Depth: 2964  
 Amount of Surface Pipe Set and Cemented at 712 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 JFR 7/07/03**  
 (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.: \_\_\_\_\_

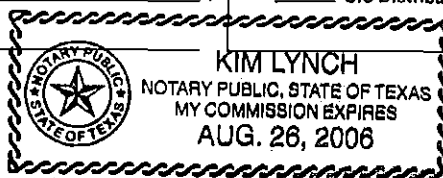
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side 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: 5-29-01  
 Subscribed and sworn to before me this 29th 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  
 \_\_\_\_\_ Geologist Report Received  
 \_\_\_\_\_ UIC Distribution



X

Operator Name: Exxon Mobil Oil Corporation \* Lease Name: KNIER #1 UNIT Well #: 3  
 Sec. 27 Twp. 34 S. R. 37  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 (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>L. KRIDER</td> <td>2734</td> <td>2749</td> </tr> <tr> <td>WINFIELD</td> <td>2785</td> <td>2800</td> </tr> <tr> <td>TOWANDA</td> <td>2842</td> <td>2857</td> </tr> </table>	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample	Name	Top	Datum	L. KRIDER	2734	2749	WINFIELD	2785	2800	TOWANDA	2842	2857
<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample														
Name	Top	Datum														
L. KRIDER	2734	2749														
WINFIELD	2785	2800														
TOWANDA	2842	2857														

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#	712	CLASS C	400	50:50 c/poz
PRODUCTION	7.875	5.500	14#	3009	CLASS C	140; 75	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	2724' - 2768'	FRAC'D WELL WITH 724,000 scf OF	
2 SPF	2782' - 2818'	80Q N2 FOAM @ 80BPM	

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.			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

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 \_\_\_\_\_

Schlumberger  
Dowell

# Stimulation Service Report

# ORIGINAL

Customer: MOBIL OIL CORP Job Number: 20096189

Well KNIER 1-3		Location (legal) SEC 27,34S,37W		Dowell Location Ulysses, KS		Job Start 1/27/99					
Field HUGOTON		Formation Name/Type CHASE		Deviation 0 °	Bit Size: in	Well MD 3,019 ft	Well TVD 3,019 ft				
County STEVENS		State/Province KANSAS		BHP psi	BHST 100 °F	BHCT °F	Pore Pres Gradient psi/ft				
Rig Name	Drilled For Gas	Service Via Land		Casing							
				Depth, ft	Size, in	Weight, lb/ft	Grade				
Offshore Zone	Well Class Old	Well Type Workover		2964	5.5	14					
Primary Treating Fluid WF100		Polymer Loading 20 lb/1000gal	Fluid Density lb/gal	Tubing							
				Depth,	Size, in	Weight, lb/ft	Grade				
Service Line Fracturing	Job Type Frac,N2Foam/Energized			0	0	0					
				0	0	0					
Max. Allowed Tubing Pressure 2500 psi	Max. Allowed Ann. Pressure psi	Wellhead Connection 5 1/2" Frac Valve		Perforated Intervals							
				Top, ft	Bottom, ft	spf	No. of Shots				
Service Instructions Provide equipment and materials to fracture well as per company rep.  45 miles				2724	2768	2	88				
				2782	2818	2	72				
				0	0		Total Interval 80 ft				
							Diameter 0.4 in				
				Treat Down Casing	Displacement 0 bbl	Packer Type	Packer Depth ft				
Job Scheduled For: 1/27/99 7:00	Arrived on Location: 1/27/99 7:00	Leave Location: 1/27/99		Tubing Vol. bbl	Casing Vol. 0 bbl	Annular Vol. 0 bbl	Open Hole Vol. 0 bbl				
Time	Fluid Type	Prop Type	PPA	Rates		Volumes		Pressures		Message	
24 hr Clock				Gas scfm	Fluid bpm	Incr. bbl	Cum. bbl	Casing psi	Tubing psi		
Post Job Summary											
Average Injection Rates, bpm				Volume of Fluid Injected, bbl							
Fluid	N2	CO2	Maximum Rate	Clean Fluid	Acid	Oil	CO2	N2 (scf)			
12	35000	0	85	274	0	0	0	724000			
Treating Pressure Summary, psi						Quantity of & placed, lb					
Breakdown	Maximum	Final	Average	ISIP	15 Min. ISIP	Total Injected		Total Ordered/Designed			
2000	2000	1850	1900	1450	0	0		0			
N2 Percent 85 %		CO2 Percent 0 %		Designed Fluid Volume 73000 gal		Displacement 0 bbl		Slurry Volume 274 bbl		Pad Volume 0 gal	Percent Pad 0 %
Customer or Authorized Representative Steve Ferguson			Dowell Supervisor Jeffery Diseker			Number of Stages 0		Fracture Gradient 0 psi/ft		<input checked="" type="checkbox"/> Job Completed	<input type="checkbox"/> Screen Out

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JUN 03 2003  
KCC WICHITA

CUSTOMER: MOBIL	DISTRICT: ULYSSES, KS
REPRESENTATIVE: STEVE FERGUSON	DS SUPERVISOR: JEFF DISEKER
WELL: KNIER 1-3	DATE: 27 Jan 99

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**JUN 03 2003**  
**KCC WICHITA**

TREATMENT LOG							
TIME HH:MM:SS	TR-PRES PSI	RDA1-IN2	SLUR-RAT BPM	TOT-INJV BBL	TOT-FLUI BBL	N2-RATE SCFM	N2TOTGAS SCF
09:37:19	START JOB						
09:37:50	87	0.00	3.21	0.1	0.2	3918	134
09:38:20	668	0.00	12.06	11.2	5.8	55	2759
09:38:50	1208	0.00	12.00	24.7	11.7	8661	6760
09:39:20	1561	0.00	12.00	37.8	17.7	6097	10166
09:39:50	1744	0.00	12.00	49.1	23.7	4211	12699
09:40:21	1877	0.00	12.00	59.8	29.7	4779	15016
09:40:39	Changed N2-RATE Calibration						
09:41:10	2032	0.00	12.06	105.9	39.7	33496	33784
09:41:40	2028	0.00	12.00	146.0	45.8	33496	50532
09:42:10	2014	0.00	12.00	186.1	51.8	33496	67279
09:42:40	2092	0.00	12.00	226.1	57.8	33496	84027
09:43:10	2064	0.00	12.00	266.2	63.8	33496	100775
09:43:40	2096	0.00	12.00	306.2	69.8	33496	117523
09:44:03	Changed N2-RATE Calibration						
09:44:33	2073	0.00	12.06	377.9	80.2	36000	147763
09:44:41	Changed START-NS-TIME Calibration						
09:45:11	2046	0.00	12.06	431.9	87.9	36000	170562
09:45:41	2032	0.00	12.06	474.5	93.9	36000	188562
09:46:11	1986	0.00	12.00	517.1	99.9	36000	206561
09:46:41	1950	0.00	12.06	559.7	105.9	36000	224561
09:47:11	1973	0.00	12.06	602.3	111.9	36000	242561
09:47:41	1964	0.00	12.00	644.9	117.9	36000	260560
09:48:11	1904	0.00	12.06	687.6	124.0	36000	278560
09:48:41	1909	0.00	12.00	730.2	130.0	36000	296559
09:49:06	Changed CLO-STRES Calibration						
09:49:14	Changed CLO-STRES Calibration						
09:49:45	1932	0.00	12.06	821.0	142.8	36000	334960
09:50:15	1918	0.00	12.06	863.6	148.8	36000	352960
09:50:45	1899	0.00	12.06	906.2	154.8	36000	370959

## TREATMENT LOG

ORIGINAL

TIME HH:MM:SS	TR-PRES PSI	RDA1-IN2	SLUR-RAT BPM	TOT-INJV BBL	TOT-FLUI BBL	N2-RATE SCFM	N2TOTGAS SCF
09:51:15	1941	0.00	12.00	948.8	160.9	36000	388959
09:51:45	1909	0.00	12.00	991.5	166.9	36000	406959
09:52:15	1890	0.00	12.06	1034.1	172.9	36000	424959
09:52:45	1913	0.00	12.06	1076.7	178.9	36000	442959
09:53:15	1941	0.00	12.00	1119.3	184.9	36000	460962
09:53:45	1904	0.00	12.06	1161.9	191.0	36000	478962
09:54:15	1881	0.00	12.06	1204.5	197.0	36000	496962
09:54:45	1899	0.00	12.06	1247.1	203.0	36000	514962
09:55:15	1918	0.00	12.00	1289.7	209.0	36000	532962
09:55:45	1858	0.00	12.00	1332.3	215.0	36000	550962
09:56:15	1877	0.00	12.06	1374.9	221.1	36000	568962
09:56:45	1904	0.00	12.00	1417.5	227.1	36000	586962
09:57:15	1849	0.00	12.00	1460.1	233.1	36000	604961
09:57:45	1904	0.00	12.00	1502.7	239.1	36000	622961
09:58:15	1895	0.00	12.00	1545.3	245.1	36000	640961
09:58:45	1867	0.00	12.06	1587.9	251.1	36000	658961
09:59:15	1904	0.00	12.06	1630.5	257.1	36000	676961
09:59:45	1849	0.00	12.06	1673.1	263.2	36000	694961
10:00:15	1602	0.00	0.00	1714.9	268.1	36000	712964
10:00:34	Changed N2-RATE Calibration						
10:01:05	1341	0.00	0.00	1740.5	268.1	0	724364
10:01:35	1304	0.00	0.00	1740.5	268.1	0	724364
10:02:05	1277	0.00	0.00	1740.5	268.1	0	724364
10:02:35	1259	0.00	0.00	1740.5	268.1	0	724364
10:03:05	1240	0.00	0.00	1740.5	268.1	0	724364
10:03:35	1227	0.00	0.00	1740.5	268.1	0	724364
10:04:05	1213	0.00	0.00	1740.5	268.1	0	724364
10:04:13	END JOB						

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