



Operator Name: Rama Operating Co., Inc. Lease Name: Kummer Well #: 4-4  
 Sec. 4 Twp. 20 S. R. 11  East  West County: Barton

**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:

**Dual Induction, Micro & Compensated Porosity**

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Topeka	2,658	-873
Heebner	2,918	-1133
Lansing	3,062	-1277
Arbuckle	3,314	-1529
RTD	3,420	-1635

**CASING RECORD**  New  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 1/4	8 5/8	23	308	60/40 poz	300	2% gel 3% CC

**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

TUBING RECORD: Size:      Set At:      Packer At:      Liner Run:  Yes  No

Date of First, Resumed Production, SWD or Enhr.      Producing Method:  Flowing  Pumping  Gas Lift  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 type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify)	_____ _____

Customer <i>Rama Operating</i>	Lease No. <b>CONFIDENTIAL</b>	Date <i>3-20-10</i>
Lease <i>Kummer</i>	Well # <i>4-4</i>	
Field Order # <i>17181485A</i>	Station <i>Pratt KANS.</i>	County <i>Barton</i>
Casing <i>8 5/8"</i>	Depth <i>309'</i>	State <i>KANS.</i>
Type Job <i>8 5/8" Surface</i>	Formation <i>CMW</i>	Legal Description <i>T0309</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<i>8 5/8"</i>			<i>CMT-</i>	<i>60/40 Poz</i>				5 Min.
Depth <i>309'</i>	Depth	From	To	Pre-Pad <i>(2) 1.25 cu ft</i>	Max <i>14.7 #/gal</i>			10 Min.
Volume <i>18.5 BBL</i>	Volume	From	To	Pad	Min			15 Min.
Max Press <i>500</i>	Max Press	From	To	Frac	Avg.			Annulus Pressure
Well Connection <i>P.C.</i>	Annulus Vol.	From	To		HHP Used			Total Load
Plug Depth <i>289'</i>	Packer Depth	From	To	Flush <i>D. SP Fresh water</i>	Gas Volume			

Customer Representative	Station Manager <i>Scotty</i>	Treater <i>Allen F. Werth</i>
Service Units <i>28443 27203 19832 21010 27463</i>		
Driver Names <i>werth A, Lesley K, mike, Nall, Chris, Donch</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>100 pm</i>					<i>on loc. Discuss Safety, setup, Plan Job</i>
<i>120</i>					<i>Start Drilling - Surface Hole 12 1/4"</i>
<i>740</i>					<i>Hole cut @ 309' CIR on Bottom</i>
<i>833</i>					<i>START out of hole w/ Drill Pipe</i>
<i>937</i>					<i>start 8 5/8 casing 23# strap weld pipe</i>
<i>1130</i>					<i>CASING @ 309' CIR w/ Rig. (Good CIR)</i>
<i>1150</i>	<i>200#</i>			<i>6</i>	<i>start mix 300SKS 60/40 Poz</i>
					<i>2% gel, 3% CC, 1/4" cell flake @ 14.7 #</i>
			<i>66</i>		<i>Finish mix cement</i>
					<i>Drop wooden Plug 8 5/8"</i>
<i>1205 AM</i>	<i>100#</i>			<i>5</i>	<i>start Disp. 18 1/2 BBLs</i>
<i>1210</i>	<i>200#</i>		<i>18 1/2</i>		<i>Finish Disp. Plug down</i>
					<i>shut in @ well.</i>
					<i>Release PST To TRK.</i>
					<i>washup Equip</i>
					<i>Rackup Equip</i>
<i>100</i>					<i>Job complete.</i>
					<i>Cement CIR. To Pit.</i>
					<i>thanks Allen, Keenan, Donch</i>
					<i>Nall</i>

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TREATMENT REPORT

CONFIDENTIAL

Customer RAMA OPERATING CO. INC.	Lease No.	Date
Lease KUMMER	Well # 4-4	3-28-10
Field Order # 1102	Station PRATT, KS.	Casing
Type Job CNW - P.T.A.	Depth 3420'	County BARTON
	Formation	State KS.
		Legal Description 4-20-11

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft				RATE	PRESS	ISIP
			185 SK	Acid	60/40 POZ			
Depth	Depth	From	To	Pre-Pad	1.42 CWT <sup>3</sup>	Max		5 Min.
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press 500	Max Press	From	To	Frac		Avg		15 Min.
Well Connection WEDGE	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush		Gas Volume		Total Load

Customer Representative LARRY	Station Manager DAVE SCOTT	Treater KEEVEN LESLEY
Service Units 27283 27463 19832 21010		
Driver Names LESLEY MATTEL NALL		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:50 PM					ON LOCATION - SAFETY MEETING
					* 25 SKS @ 3314'
8:52 PM			20	5	H <sub>2</sub> O AHEAD
8:56 PM			6	5	MIX CMT @ 13.79#/gal
8:51 PM			6	5	H <sub>2</sub> O BEHIND CMT
9:00 PM			40	7.8	MUD DISPLACEMENT
					* 25 SKS @ 510'
11:05 PM			10	5	H <sub>2</sub> O AHEAD
11:17 PM			6	5	MIX CMT @ 13.79#/gal
11:10 PM			2.5	5	H <sub>2</sub> O DISPLACEMENT
					* 80 SKS @ 340'
11:52 PM			5	5	H <sub>2</sub> O AHEAD
11:54 PM			20	5	MIX CMT @ 13.79#/gal
11:58 PM			4	5	H <sub>2</sub> O DISPLACEMENT
					* 10 SKS @ 40'
12:18 AM	0		3	4	MIX CMT @ 13.79#/gal
12:30 AM	0		0.5	4	H <sub>2</sub> O DISPLACEMENT
12:30 AM					PLUG R.H.E.M.H.
					JOB COMPLETE,
					THANK YOU, KEEVEN LESLEY

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