

# Mid-Continent Conductor, LLC

P.O. Box 1570, Woodward, OK 73802  
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## CEMENTING REPORT

Operator: Unit Corporation
Well Name: Haw Ranch 1- 32H
Legal Description: Reno Cnty, KS

Cement Casing Data	
Cementing Date	2/13/14
Size of Drill Bit (Inches)	28
Size of Casing (Inches O.D.)	16
Setting Depth of Casing (ft.) from ground level	160
Type of Cement	Common Cement
Sacks of Cement Used	144
Was cement circulated?	Yes
Job witnessed by: Ronnie Jackson	



Jeff M. Owen

Mid-Continent Conductor, LLC

Customer <i>UNIT - P440</i>	Lease No.	Date <i>03-02-14</i>	
Lease <i>HAW-RANCH</i>	Well # <i>32-14</i>		
Field Order # <i>10091</i>	Station <i>PRATT KS</i>	Casing <i>9 5/8</i>	Depth
Type Job <i>CNW 9 5/8 Surface</i>	Formation	County <i>RENO</i>	State <i>KS</i>
		Legal Description <i>27-25-10</i>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>9 5/8</i>				Pre Pad	Max		5 Min.	
Depth <i>1533'</i>	Depth	From	To	Pad	Min		10 Min.	
Volume <i>118.42</i>	Volume	From	To	Frac	Avg		15 Min.	
Max Press <i>800</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>P.C</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <i>1533'</i>	Packer Depth	From	To					

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert L...</i>
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Service Units	<i>37900</i>	<i>33708</i>	<i>20920</i>	<i>19800</i>	<i>21010</i>	<i>19831</i>	<i>19918</i>				
Driver Names	<i>Sullivan</i>	<i>Genes</i>	<i>Eggert</i>	<i>Phye</i>							

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>11:15</i>					<i>on loc soft/mokey</i>
					<i>Run 9 5/8 csg.</i>
<i>3:00</i>					<i>cg on Bottom Hook Pig csg.</i>
<i>3:15</i>			<i>5</i>		<i>ST SPACER</i>
				<i>5</i>	<i>Mix A-CON-Blood cont 12.2% yield 2.47</i>
			<i>143</i>		<i>9.44 sk 14.49 325 sk 3% cc 1/4 c Fake</i>
			<i>59</i>		<i>mix tail cut 280 sk common 2% cc 1/4 c Fake</i>
				<i>5.5</i>	<i>min 15.5 pps, yield 1.20, gal/hr 5.23</i>
					<i>shot down cont mixed</i>
<i>4:30</i>	<i>800</i>		<i>118 1/2</i>		<i>Release Pig ST Spg</i>
					<i>plug down</i>
					<i>circ GO BAL cont PIT</i>
					<i>JOB Complete</i>
					<i>Thank you</i>

Lease No.	Date
Well # 32-14	03-07-14
Casing " 7"	Depth 4370
County <del>BEVO</del> 29-25-10	State KS
Field Order # 10096	Station PRATT KS
Type Job CNW 7" INTERMEDIATE	Formation
	Legal Description 29-25-10

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	.ISIP	
7"				Pre Pad	Max		5 Min.	
Depth 4370'	Depth	From	To	Pad	Min		10 Min.	
Volume 167	Volume	From	To	Frac	Avg		15 Min.	
Max Press 1500	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection P.C.	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth 4370'	Packer Depth	From	To					

Customer Representative	Station Manager <i>DAVE Scott</i>	Treater <i>Robert Sullivan</i>
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Service Units	37900	19889	19843	1989	73768				
Driver James	<i>Sullivan</i>	<i>Edmundo</i>	<i>Hambly</i>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1:30 AM					on loc SAFETY meeting
					Ran 7" csg
4:00					CASING ON BOTTOM
4:10					Rig circ CASING
4:40	100		12	3.5	ST. ADD FLUSH
			5		SACIN
			40	4.5	mix cont 160 gal AA-2 cont @ ISAPP
					yield 1.43 gal/st 6.01
					cont mix of shot down
				6	Release Plug AND ST Disp
	250				Lift
5:30	2,000		167		plug down
					Flow hold.

Customer <i>UNIT</i>	Lease No.	Date <i>03-17-14</i>	
Lease <i>HAW-RANCH</i>	Well # <i>32-14</i>		
Field Order # <i>10352</i>	Station <i>PRATT</i>	Casing <i>4 1/2"</i>	Depth <i>4077</i>
Type Job <i>CPW 4 1/2" Liner</i>		Formation	Legal Description <i>29-25-10</i>
		County <i>RENO</i>	State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>4 1/2"</i>	<i>5 1/2"</i>			Pre Pad	Max		5 Min.	
Depth <i>7698'</i>	Depth <i>4077'</i>	From	To	Pad	Min		10 Min.	
Volume <i>72.8</i>	Volume <i>77.5</i>	From	To	Frac	Avg		15 Min.	
Max Press <i>2500</i>	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection <i>504FE</i>	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth	Packer Depth	From	To					

Customer Representative	Station Manager <i>DAVE SCOTT</i>	Treater <i>Robert Fullin</i>
Service Units <i>37900 33708 20920 19960 21000 19826 19860</i>		
Driver Names <i>Sullivan GRAVES G. S. SWAN HANCOCK</i>		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<i>9:45 am</i>					<i>on loc soft, mostly</i>
					<i>Run 4 1/2" Liner <del>4077</del> 4077'</i>
					<i>Run 5 1/2" cy 4077'</i>
<i>2:00</i>					<i>CASING ON BOTTOM</i>
<i>2:10</i>					<i>Hook up on csp.</i>
<i>3:40</i>	<i>450</i>		<i>5</i>	<i>3.5</i>	<i>ST SPACER</i>
			<i>12</i>		<i>84 mud fluid</i>
			<i>5</i>		<i>spacer</i>
			<i>4</i>		<i>mix 500stk prep mix cont yield 1.24 <sup>9AL</sup> 4543</i>
			<i>110</i>		<i>mix @ 15-6 pps</i>
					<i>cont mix @ shut down wash line, pump</i>
			<i>1</i>		<i>pump ONE GAL SUGAR WATER</i>
			<i>6</i>		<i>DROP Plug AND ST Disp w/ sugar H<sub>2</sub>O</i>
	<i>950</i>		<i>60</i>		<i>Lift</i>
	<i>1400</i>		<i>110</i>		<i>Slow</i>
<i>5:00</i>	<i>2450</i>		<i>159</i>		<i>Plug down</i>
					<i>Release PSI. Heat Hold</i>
					<i>SOB Complete</i>
					<i>Thank you</i>