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energy services, L.P.

**TREATMENT REPORT**

Customer: *M & M Exploration* Lease No.: \_\_\_\_\_ Date: \_\_\_\_\_  
 Lease: *Z BAR* Well #: *20-14* 09 05 -11  
 Field Order #: *3430* Station: *PRA H K* Casing: *4 1/2* Depth: \_\_\_\_\_ County: *BARBER* State: *KS*  
 Type Job: *CNW 4 1/2 longstrip* Formation: \_\_\_\_\_ Legal Description: *20-34-14*

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid		RATE	PRESS	ISIP
<i>4 1/2</i>				Pre Pad	Max			5 Min.
<i>4 1/2</i>	Depth	From	To	Pad	Min			10 Min.
<i>75</i>	Volume	From	To	Frac	Avg			15 Min.
<i>3,000</i>	Max Press	From	To		HHP Used			Annulus Pressure
<i>1.0</i>	Well Connection	From	To	Flush	Gas Volume			Total Load
<i>4,200</i>	Plug Depth	From	To					

Customer Representative: \_\_\_\_\_ Station Manager: *DAVE SCOTT* Treater: *Robert Sullivan*

Service Units	<i>37900</i>	<i>33708</i>	<i>20520</i>	<i>19831</i>	<i>19862</i>				
Driver Names	<i>Robert</i>	<i>Nelson</i>		<i>Harstad</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>12:00 AM</i>					<i>on for soft, mostly</i>
					<i>run str 4 1/2 csg.</i>
					<i>Casing set 4896' 52' at bottom</i>
					<i>Csg set @ 4899'</i>
<i>8:20</i>					<i>Csg on bottom</i>
<i>8:30</i>					<i>Hook up to circ.</i>
<i>9:20</i>	<i>300</i>		<i>7</i>	<i>4</i>	<i>mix Scavenger cont 25 st 41-2 cont</i>
			<i>62</i>	<i>5.5</i>	<i>mix Tail cont 225 st 41-2 cont</i>
					<i>cont mixed wash, pump, L.D.s</i>
					<i>Release Plug</i>
				<i>6</i>	<i>At depth w/ 2% KCl 4 1/2</i>
	<i>750</i>		<i>37</i>		<i>Left Pk.</i>
<i>1</i>	<i>1000</i>		<i>65</i>	<i>4</i>	<i>Slow Rate</i>
<i>9:50</i>	<i>1,800</i>		<i>75</i>		<i>plug down</i>
			<i>7</i>		<i>plug R.H. w/ 20 st</i>
			<i>5</i>		<i>plug W.H. w/ 20 st</i>
					<i>SOB Complete</i>
					<i>Thank you</i>