



Longmont

Prepared For: Robert Schultz/Kim Gritz

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Max Deviation (Deg):	92.72	Mud Weight (lbs/gal):	9.10
Deviation @ TD:	88	Mud Type:	WBM
Deviation @ TOL:	1	Mud Visc (cP):	
Bottom Hole Temp (°F):			

[illegible]

TOL

CSG SHOE

LINER SHOE

<u>Liner Setting Results</u>		Ball Seat Depth: <u>16,539.49</u>		Ball Seat Shear (psi): <u>3592</u>	
Pressure to Set Hanger (psi):	<u>2719</u>			Rounds to Set Hanger: <u></u>	
Pressure to Release Tool (psi):	<u>2719</u>			Rounds to Release Tool: <u></u>	
Pick up to check liner weight Loss (ft):	<u>3</u>			RH or LH Set: <u></u>	
Total Weight Loss (lbs):	<u>55000</u>			Hanger Set (Y/N): <u>Y</u>	
<u>Mud/Hole Conditioning</u>					
Mud circulated after liner on bottom:	<u>3.5</u>	bpm @	<u>855</u>	psi for	<u>0.5</u> hrs
Before setting hanger:	<u>4</u>	bpm @	<u>1,050</u>	psi	<u>0.9</u>
After setting hanger:	<u>4</u>	bpm @	<u>1,147</u>	psi	<u>0.2</u>
<u>Cementing / Displacement</u>					
Lead Spacer (bbls):	<u>25</u>	Weight (lb/gal):	<u>11</u>	Fluid Type: <u>spacer</u>	Start: <u>8:43 AM</u>
Tail Spacer (bbls):		Weight (lb/gal):		Fluid Type: <u></u>	Finish: <u>9:20 AM</u>
Lead cement (sks):	<u>678</u>	Weight (lb/gal):	<u>13.5</u>	at Yld.> <u>1.67</u>	bbls: <u>192</u>
Tail cement (sks):		Weight (lb/gal):		at Yld.> <u></u>	bbls: <u></u>
Volume to Latch LWP (Calculated):	<u>43</u>	bbls	Liner Disp (Calculated):	<u>203.6</u>	bbls
Volume to Latch LWP (Actual):	<u>43</u>	bbls	Liner Disp (Actual):	<u>203.7</u>	bbls
Plug Sheared:	<u>2650</u>	psi	<u>Liner Top Packer</u>		
Bumped @:	<u>2130</u>	psi	Weight to Set Packer (lbs):	<u>55,000.00</u>	Rotated: <u>N</u>
Wet Shoe Shear:	<u>3370</u>	psi	1st Shear: <u>25,000.00</u>	2nd Shear : <u>25000.00</u>	
Floats Held:	<u>Y</u>		Tested (psi): <u>2,105</u>	Held For: <u>10</u>	min