

<b>WORKOVER PROCEDURE</b>		<b>Verdad Resources</b>
Crystal State #41-18		
SHL: Lat 40°13'53.32 Long 104°21'35.82", NENE Sec. 8-3N-62		
Weld County, CO	API: 05-123-09568	
Date: 05/31/17	AFE: 2017CO01	
<b>WELL DATA</b>		
Re-Enter P&A		
GL Elev: 4,666'	TD: 6,933 'KB	
Spud Date: 9/14/1971	PBSD: 6,955'	
	Btm 4-1/2" shoe @6,933'	
<b>CASING</b>		
Surface: 8-5/8", 24#, J-55, @449'. Cemented w/ 250 sxs, Cement to Surface		
Hole Size: 12 1/4"		
Production: 4-1/2", 11.6#, Cemented w/225 sxs, Cut and pulled casing @5,900'		
Hole Size: 7 7/8"		
Directions to Location:		
Formation Tops:		
Base of Fox Hills 410'; Top of the Niobrara 6140'		
<b>PROCEDURE</b>		
<b>Prior to Frac</b>		
<ol style="list-style-type: none"> <li>1. Contact landowner and state representative 48 hours prior to commencing work</li> <li>2. Build temporary pad and access road for completion rig and cement unit</li> <li>3. Cut off dry hole marker</li> <li>4. Verify casing size and weld on wellhead flange and riser</li> <li>5. MIRU WO rig, BOPS, working tank w/drilling mud, Frac Tank (w/fresh water), shakers tank, Gas Buster</li> <li>6. Make up BHA as follows; 3 1/2" work string, 2 4" drill collars, POBS, 6" roller-cone bit.</li> <li>7. RIH and drill out cement to 450'. Circulate bottoms up at 450'.</li> <li>8. Wash down to 5,900' without rotating. If depth is not achieved call engineer to contact COGCC.</li> <li>9. TOOH Laydown BHA.</li> <li>10. TIH with open ended tubing. Rig up cement crew.</li> <li>11. Pump 60 sks balanced plug from 5,900' to 5,700'</li> <li>12. POOH to 5000' circulate for 4 hours</li> <li>13. TBIH and tag cement plug. Notify engineer of depth tagged</li> <li>14. TOOH to 460', pump 140sks balanced plug to surface</li> <li>15. TOOH and pump 5 sks to top out cement</li> <li>16. RDMO WO rig, BOPS, working tank, Frac Tank</li> <li>17. Cut off wellhead and riser 4' below ground level</li> <li>20. Weld on dry hole marker</li> <li>21. Clean location and reclaim</li> </ol>		