



**State #B-1  
State of Colorado Orphan Well  
Re-Enter and P&A  
API # 0507505083  
AFE # TBD**

**WELL DATA**

**Surface Location:** 1980' FNL & 1980' FWL of Sec 21, T6N, R54W, Logan County, CO

**Elevations:** Ground Level: 4,206 ft                      Kelly Bushing: 4,216 ft

**Depths:**            Total Depth: 5,038 ft KB

**Surface Casing:**

<u>Casing</u>	<u>Depth</u>	<u>OD</u>	<u>Grade</u>	<u>Weight</u>	<u>ID</u>	<u>Drift</u>	<u>Cap</u>	<u>Collapse</u>	<u>Burst</u>	<u>Tensile</u>
Surface	172 ft	10-3/4"	H-40	32.75 #	10.192 in	10.036 in	0.0998 bbl/ft	N/A	1,820 psi	205,000 lbs.
Production	5,024 ft	5-1/2"	J-55	14.0 #	5.012 in	4.887 in	0.0244 bbl/ft	3,120 psi	4,270 psi	172,000 lbs.

**OBJECTIVE**

The following is a procedure to re-enter the State #B-1 orphan well and properly plug and abandon the well as per the COGCC requirements.

**Re-Enter and P&A Procedure**

1. Notify COGCC at least 48-hours prior to the start of operations using a Form 42. Verify with James Kopp that this is completed prior to moving the rig in.
2. Take GPS coordinates of exposed wellhead. Send information to:  
James Kopp                      [James.Kopp@whiting.com](mailto:James.Kopp@whiting.com)                      (303) 357-1410
3. MIRU WO Rig. Mob-in pump, tank, wash-up tubs, 2-7/8" PH-6 workstring, and any other necessary equipment.
4. TOOH with existing rod string laying down. Release anchor catcher and MU companion flange. NU BOPs w/ 2-7/8" pipe rams on top and blind rams on bottom, pressure test high and low if possible.
5. TOOH with existing tubing and production BHA. PU workstring, TIH with bit and scraper to 5,000 ftKB, TOOH with BHA and LD. PU retrievable bridge plug on workstring. TIH and set RBP @ 5,000 ftKB. TOOH with workstring standing back.
6. MIRU wireline unit. Verify hole is full of water. RIH with Gamma Ray/CCL/CBL/VDL/Radial bond logging tool. Hold 1,500 psi on casing and log to surface. Send results to James Kopp ASAP for review and depth verification. Remaining operations steps will be finalized based on log data. RD wireline.
7. TIH with workstring to 5,000 ftKB and PU RBP. TOOH with tools standing back. LD tools.
8. TIH with workstring to 5,024 ftKB. MIRU cement crew. Pressure test surface lines to 2,000psi. Mix and pump 50 sks, API Class G, 1.15 cu-ft/sk, 15.8 ppg cement balancing plug at 5,024 ftKB. Let cement cure overnight.
9. TIH with workstring. Tag TOC with EOT, record depth.
10. From CBL, determine depth where production casing can be cut and pulled out of hole. Once agreed upon, MIRU wireline. PU jet cutting tool and RIH. Cut casing and TOOH with wireline and tools. TOOH with cut production casing laying down. RD wireline when confident services no longer needed.

11. TIH with workstring to depth where casing was cut. MIRU cement crew. Pressure test surface lines to 2,000psi. Mix and pump 50 sks, API Class G, 1.15 cu-ft/sk, 15.8 ppg cement, balancing plug 1/2 in and 1/2 out of the cut production casing. TOOH with 2-7/8" workstring standing back. Let cement cure overnight.
12. TIH with workstring. Tag TOC with EOT, record depth.
13. TIH with workstring to 800 ftKB. MIRU cement crew. Pressure test surface lines to 2,000psi. Mix and pump 50 sks, API Class G, 1.15 cu-ft/sk, 15.8 ppg cement balancing plug at 800 ftKB. Let cement cure overnight.
14. TIH with workstring. Tag TOC with EOT, record depth.
15. TIH with workstring to 257 ftKB. MIRU cement crew. Pressure test surface lines to 2,000psi. Mix and pump 50 sks, API Class G, 1.15 cu-ft/sk, 15.8 ppg cement balancing a plug 1/2 in and 1/2 out of the surface casing.
16. PU to 20' FS. MIRU cement crew. Pressure test surface lines to 2,000psi. Mix and pump 10 sks, API Class G, 1.15 cu-ft/sk, 15.8 ppg cement, balancing plug to surface. TOOH with workstring, LD on float.
17. Cut off WH to 5' below GL and fill hole.
18. Weld on cap with plugging information plate. Backfill cellar.
19. RDMO rig and equipment.
20. Reclaim disturbed surface.

## SAFETY & ENVIRONMENTAL

Whiting Operating stresses safety and environmental stewardship in all operations. Safety tailgate meetings are encouraged prior to commencing with any major wellsite task. Spills of notable size should be reported and recorded. The proper personal protective equipment (PPE) should be worn at all times while on location. Should there be any questions regarding Whiting's safety/environmental policies, the Wellsite Supervisor will provide instruction.

EMERGENCY CONTACT INFORMATION	
Contacts	Phone Number & Description
EMERGENCY	911 or (800) 472-2121
Sheriff's Department (Sterling, CO)	(970) 522-3512 (Logan County)
New Raymer Fire Dept	(970) 437-5713
After Hours Emergency (WOG)	1-800-723-4608
Primary Ops Engineer: James Kopp	Cell: (303) 681-1997, Office: (303) 357-1410
Secondary Ops Engineer: Adrian Reece	Cell: (720) 484-0777, Office: (303) 876-7076
Rig Supervisor: Brent Brown	Cell: (701) 290-0123, Office: (970) 407-3009