

## WORKOVER PROCEDURE

**WELL NAME:** Federal 14 **DATE:** 10/8/2015  
**LOCATION:**  
Qtr/Qtr: NW/NE Section: 8 Township: 2N Range: 63W  
Footages: 990 FNL & 1650 FEL  
**COUNTY:** WELD **STATE:** CO **API #:** 05-123-07634

**ENGINEER:** AJ Paine 7 Day Notice Sent:  
(Please notify Engineer of any major Do not start operations until:  
changes prior to work) Notice Expires:

**OBJECTIVE:** P&A

**WELL DATA:** Surface Csg: 8 5/8", 24# @ 618' KB Elevation: 4803'  
Surface Cmt: 400 sx GL Elevation: 4790'  
Long St Csg: 4 1/2", 11.6#, K-55 @ 7363' TD: 7370'  
Long St Cmt: 154 sx PBTD: 7276'  
Long St Date: 1/20/1973

Plug Back (Sand or CIBP): **Sand**  
Perforation Interval (1): J Sand Perforations: 7226' - 7287'  
Perforation Interval (2):  
Perforation Interval (3):  
Tubing: 1.9", J-55 @ 7237' Rods:  
Pump:  
Misc.:

**PRODUCTION STATUS:** Well is cycled for small amount of gas production, but struggles against line pressure.  
**COMMENTS:** Well has suspected hole in casing.

### PROCEDURE:

- 1) MIRU Workover rig, pump & tank.
- 2) POOH w/ 1.9" tubing and lay down
- 3) RU WL. RIH w/ CIBP. Set CIBP @ 7176', dump bail 2 sx of cement on top.
- 4) Run CBL to verify cement depths above CIBP.
- 5) RIH w/ workstring to 6470'. Pump 8 sx balance plug.
- 6) RIH w/ perf gun. Perforate 4 1/2" csg @ 6335' (20' above TOC and above casing collar)
- 7) RIH w/ CICR. Set CICR @ 6245'. Pump 55 sx through and 5 sx on top to cover the Nio.
- 8) Unland casing. Cut casing off @ 2500'. POOH w/ 4 1/2" csg and lay down.
- 9) RIH w/ workstring. Pump 100 sx stub plug where casing was pulled. If maintain circulation, no need to tag plug.
- 10) POOH w/ workstring to 769'. Pump 275 sx shoe plug. Cement to surface.
- 11) SI, WOC. RIH. Tag shoe plug. Add cement if needed.
- 12) Cut surface casing off 6'-8' below ground.
- 13) Clean up location. Reclaim location. RDMO.