

FOUNDATION ENERGY MANAGEMENT
FEDERAL FALCON 33-6 WBI Procedure
SEW SEC 33 8N 60W
05-123-20233 | WELD COUNTY
Surface CSG: 8-5/8" 24# | CSG: 5 1/2" 15.5# | TBG: 2 3/8" 4.7#

Procedure:

- 1: Prior to starting Rig operations. Check PSI on well. If well pressure is @ 800 Psi or higher, MIRU flowback incinerator. Burn gas off well until well pressure is @ or below 400 PSI.
- 2: MIRU. Bull head and kill well w/ fresh water and biocide. If well flows fluid or gas after bullheading, circulate well to kill. Attempt to keep kill fluids minimal throughout job. Stump test & Stack test BOPS, TIW Valve and hard lines to 250 psi low and 2000 psi high. No more than a 10% loss on low and 5% loss on high for and acceptable pressure test. Test 15 min. ND well head NU BOPS.
- 3: Unseat pump and POOH w/ rod string. Fish rod string as necessary. Hang back rods. Visually inspect entire rod string for any corrosion or damage and replace joints as necessary. Release TAC, unseat and LD landing joint. PU & TOO H with tubing, standing back to the derrick.
- 4: MIRU wireline. RIH and set 5 1/2" CIBP at 6,900'. Load hole and PSI test CSG to 500 PSI, hold for 15 min. If CSG test fails, contact Engineer. RIH with logging tool down to 6,900' and run CBL to surface (or at least 6,000'). POOH, call engineering and review CBL.
- 5: RIH with perf gun and perforate 5 1/2" CSG at 6,350' and 5,967', POOH. RDMO wireline. RU hydrotester. PU 2-3/8" workstring with 5 1/2" CICR on bottom and set CICR at 6,300', testing in.
- 6: MIRU Cement Crew. Establish circulation through squeeze holes with freshwater to surface – if circulation cannot be established, contact engineer. Pump 5 bbls freshwater spacer w/ mud flush, then pump 70 sx G Neat 1.15 yield cement, displacing through CICR to place cement behind CSG from 6,350' to 5,967' (max pressure of 2500 psi). Release CICR and TOO H with workstring. RDMO Cement unit.
- 7: Wait 4 HRS. If pressure exists on Bradenhead bleed to 0 psi if able and check for bubble activity and/or water flow, shut in and monitor for 30 minutes. Utilize a fit for purpose gauge (0-50 or 0-100 psi) to check pressure. If flow is present, contact engineer.
- 8: If necessary, MIRU wireline and RIH with logging tool to confirm cement coverage behind casing (from 6,900' to at least 5,750').
- 9: PU and TIH with 4-3/4" bit and tubing. Drill out CICR at 6,300' and CIBP at 6,900', then circulate hole clean. TOO H with tubing, LD 4-3/4" bit. TIH w/ original tubing string assembly. ND BOPs. NU wellhead.
- 10: PU and TIH w/ original rod string assembly. Seat pump and hang off rods. RU pump truck and load tubing w/ freshwater w/ biocide. Pressure test pump and tubing to 500 psi. Hang well on. RDMO WO rig, release well.

See Proposed Remediation WBD Attachment