



**Mallard Exploration**  
Government Doty #2 Re-Entry P&A  
Green Teal WBI – Capital  
Lat: 40.638725 Long: -104.075512

**Procedure:**

1. Survey and locate abandoned well. Mark with stake and record as-drilled GPS coordinates.
2. Excavate to expose top of surface casing. Cut welded plate off. Weld 4-1/2" slip collar, sufficient 4-1/2" casing to reach ground level, and 4-1/2" slip collar.
3. MIRU workover rig. NU wellhead and 5k BOP. Test BOP.
4. PU and RIH with 3-3/4" bit and 2-3/8" 4.7# J-55 EUE workstring with 10 3-1/2" drill collars. Drill out surface cement plug and circulate hole clean.
5. Continue drilling or RIH to top of production casing plug at 2,980' (WL-verified on 9/22/94). Verify depth of production casing plug by tagging. Pressure test casing to 250 psi. If production casing fails pressure test, contact engineer.
6. After pressure test of production casing, continue to drill out production casing plug. If pressure is encountered below casing plug at 2,980', circulate hole with mud or kill fluid until well is dead or blown down.
7. Continue drilling or RIH, cleaning out drilling mud or water to 6,612', the estimated top of cement inside casing above CIBP @ 6,646', and tag to verify depth. TOOH with bit and 2-3/8" workstring.
8. MIRU wireline. RIH and perforate 4-1/2" production casing at 6,150'. PU and shoot second set of squeeze holes at 5,850' and TOOH. RDMO wireline.
9. PU & TIH with cement retainer, hydrotesting each stand of tbg to 5000 psi while TIH. Set retainer at 5,890' (40' below top squeeze perforation). RD Hydrotester.
10. MIRU cement services, pressure test lines to 4,500 psi. Load tubing with fresh water with biocide. Establish injection rate into and through squeeze perforations at 6,150' and 5,850'. Follow up with 120 sx of Class G neat cement mixed at 15.8 ppg and 1.15 cuft/sk yield. Displace cement to top perforations above CICR (if pressure does not build, wait about 15mins and continue pumping cement). Squeeze to 3,000 psi. If unable to achieve adequate rate, contact engineering. RD cement services.
11. Sting out of CICR and pump 10 sks on top of CICR Class G neat cement mixed at 15.8 ppg and 1.15 cuft/sk yield. POOH.
12. PU and RIH with mule shoe and 2-3/8" J-55 tubing to 620'. RU cement crew, pressure test lines and pump balanced plug of 15 sks of 15.8 ppg Class G neat cement at 620'.
13. POOH to surface casing and wait four hours. RIH and tag top of cement. Record tag depth. If tag is deeper than 420', contact engineer. RDMO.

14. Once surface plug has set, cut casing to 5' below ground level and weld on plate to seal the wellbore. Inscribe the well's legal location, well name and number, and API number on the plate as shown below:

GOVERNMENT DOTY #2  
05-123-11557  
660' FNL 2040' FEL NWNE Sec 27 8N60W

16. Backfill hole and reclaim surface to original conditions.

**See As-Plugged (Existing) & Proposed WBD Attachments**