



**Mallard Exploration**  
Hoffman 34-1 Remediation  
Green Teal WBI – Capital  
Lat: 40.62436 Long: -104.070741

**Procedure:**

1. MIRU well servicing unit. PU and POOH with rod string and LD on sills.
2. Blow down casing to tank. Pump fresh water w/biocide to kill well, if necessary.
3. ND well head. Release TAC (8 turns to the right). NU 5K BOPS. Function-test BOPs, confirm 2 3/8" pipe rams in BOP.
4. RIH and pull 2-3/8" tubing, tallying OOH. LD TAC and mud anchor.
5. PU 4 1/2" 11.6# RBP & 2-3/8" XN one joint above R-Head for RBP and RIH on 2-3/8" tubing. Set RBP at +/- 5,975' (collars at 5,966' and 6,008'). J-off RBP and LD 1 joint. Circulate hole clean with fresh water w/biocide.
6. Pressure test RBP to 500 psi for 15 minutes. Increase pressure to 750 psi and test again for 15 minutes. If pressure test is not successful, contact engineering. If successful, dump 2 sacks of sand on top of RBP and proceed.
7. TOOH to derrick with 2-3/8" tubing. ND BOPs.
8. Un-land 4 1/2" 11.6# casing. NU dual entry flange.
9. PU and TIH between 8-5/8" surface casing and 4 1/2" production casing with 1.25" tubing to 500'.
10. Circulate with fresh water w/biocide. Displace with 10 ppg mud.
11. Pump 5 bbls fresh water followed with 139 sx of Class G cement mixed at 15.8 ppg, 1.15 cuft/sk (cement from 500' to surface, 40% excess).
12. Re-land 4 1/2" casing.
13. If no returns seen at surface, MIRU WL and run CCL-GR-CBL-VDL from 550' to surface (cement should be from +/- 500' to surface).
14. NU 5k wellhead. NU BOP. TIH with RBP retrieving head, 1 joint 2-3/8" tubing and 2-3/8" XN. Land one joint above RBP @ +/- 5,945'.
15. ND BOPs. NU wellhead and install 5k full opening valve on top of tbg/wellhead.
16. RDMO. Clean location.

**See Existing & Proposed Remediation WBD Attachment**