

Surface Rig P&A Procedure Viper Pyro 41N-14HZ

1. Perform Top Job on 9-5/8" casing.
 - a. Run 1" pipe between the conductor and 9-5/8" casing to as deep as possible.
 - b. Pump 15.8 ppg Class G cement with 2% calcium chloride per SLB design until cement returns reach surface.

NOTE: The cement will come out as sack material and mixed on the fly
 - c. Attempt to retrieve 1", if not achievable, leave and cut off BGL
2. Place a C-plate on the conductor and weld it to the 9-5/8" casing.
3. Cut off the 9-5/8" casing below the rotary table at a height that will allow the rig to skid off the well.
4. Make up an 8-3/4" roller cone bit and approximately six 6-3/4" steel drill collars. RIH to 9-5/8" float collar.
5. Wait on cement to achieve 500 psi compressive strength.
6. Drill out the float collar and float shoe.
7. Monitor torque and 9-5/8" casing for rotations
8. If the casing begins to turn, PU, shut down and discuss with Operations and Engineering Supervisor
9. Proceed in hole on 4-1/2" drill pipe with cleanout assembly using caution.
 - a. Wash to bottom at ~600 gpm
 - b. If pack-off or tight hole is present. CBU until conditions improve prior to proceeding in hole.
10. AT TD CBU as required to clean up hole pumping viscous sweeps as necessary.
 - a. Stage pump rates up to 850 gpm to circulate the hole clean.
11. POH and lay down cleanout assembly.
12. RIH to ~8824 ft MD with 4-1/2" drill pipe, open ended, to set balanced cement plug.
 - a. Space out to place a tool joint at the rig floor.
13. Rig up SLB cement lines and pressure test to 1500 psi.
 - a. Ensure cement lines are properly secured with whip check
 - b. Ensure rig floor is cleared while pressure testing and while pumping cement at all times.
14. Place a balanced cement plug with 15.8 ppg Class G cement per SLB pumping schedule
 - a. Under flush allowing plug to balance
 - b. Planned top of cement at 50 ft.
 - c. Assume 10% excess in the open hole.
 - d. Volume: 128.9 bbls (624 sacks) of cement.
15. Pull out of the balanced plug at ~45 ft/minute. Ensure standpipe bleeder line is open so pipe pulls dry.
16. Wash out all DP as it is laid down to remove any cement left on the I.D.
17. Rig down and move off the well.
18. Skid rig back to the Viper Pyro 39N2-10HZ and drill this well while further plans are decided.