

SUMMARY

Drilling, Drill Stem Tests, Casing and Cementing Programs

1. Drill 17-1/2" hole to 550'± using a Fresh Water Mud System. Will set surface in the Rustler formation. May lose circulation from 300'-450' in the Rustler formation with the possibility of dry drilling.
2. Run 550'± of 13-3/8", 48#, H-40, ST&C surface casing with a Texas Pattern (notched) Guide Shoe on the bottom of shoe joint and an insert float valve in top of shoe joint. Thread lock shoe w/Halliburton Weld-A. Place a stop ring 3'± above guide shoe, then install a centralizer directly above guide shoe. Thread lock the collar at the top of the shoe joint w/Halliburton Weld-A. Place a second centralizer on top of the shoe joint. The third and fourth centralizers should be spaced out on every other collar (total of four centralizers).
3. Circulate casing capacity plus (in order to clear casing). Cement 13-3/8" with 575±sx Class C w/2% CaCl. Slurry weight - 14.8#/gal w/ a slurry volume of 1.32 cu ft/sx and a water ratio of 6.30 gal/sx. Use one wooden plug to displace cement.
4. Nipple up and install BOP. Test 13-3/8" casing to 600# after 18 hrs. Drill out cement.
5. Drill 12-1/4" hole to 3500'± in top of San Andres using a Brine Water Mud System. May lose circulation at 953'± in the salt section with the possibility of dry drilling to 3500'±.
6. Run 300' of 9-5/8", 36#, S-80, ST&C casing and 3200'± of 9-5/8", 36#, K-55, ST&C Intermediate casing w/a Texas Pattern (notched) Guide Shoe on the bottom of shoe joint and insert float valve in top of shoe joint. Thread lock shoe w/Halliburton Weld-A. Place a stop ring 3'± above guide shoe, then install a centralizer directly above guide shoe. Thread lock the collar at the top of the shoe joint w/Halliburton Weld-A. Place a second centralizer at the top of the shoe joint. The third and fourth centralizers should be spaced out on every other collar (total of four centralizers).
7. Circulate casing capacity plus (in order to clear casing). Cement 9-5/8" with 925sx Halliburton Lite Premium plus cement w/¼#/sx flocele & 12#/sx salt. Slurry weight - 13.0#/gal w/a slurry volume of 1.96 cu ft/sx and a water ratio of 10.35 gal/sx. Tail-in w/200sx Class C w/2% CaCl. Slurry weight - 14.8#/gal and a slurry volume of 6.30 gal/sx.