

### Cannon Land 16-3A Annular Fill and WH

- 1 PU and TIH 10,000 psi rated RBP above and below (4.5", 11.6#, I-80) and set RBP at +/- 6818' (collars located at 6794' and 6836').
- 2 Pressure test RBP to 1,000 psi for 15 minutes.
- 3 Dump 2 sks sand on top of RBP. POOH.
- 4 Bleed off pressure. ND BOP's, ND wellhead, Un-land 4-1/2" casing but do not exceed 80% of the tubing tensile strength which is 169,600 lbs, NU dual entry flange, NU BOP. Function test and document.
- 5 PU and TIH with 1-1/4" 2.33# J-55 10rd IJ tbhg outside 4-1/2" csg to +/- 1600'. Run two 2" or one 3" line(s) from starting head to return tanks. If unable to achieve at least 1 bbl/min return, call engineering for alternate procedure. Circulate with 2 sweeps of Alcomer 74L and freshwater treated with biocide to clean up annulus while TIH. Make one last sweep with Alcomer 74L at 1600'. Continue to circulate with rig pump until clean returns are seen and well is dead.
- 6 Contact Imperial mud (min of 24hrs. in advance) and pump 40 bbls of 10.0ppg mud. Shut in well for 1 hr to ensure no gas is present. Not acceptable to use re-hydrated mud from annular space. If gas is detected, contact engineering to discuss plan moving forward. Keep mud separated from SAPP contaminated tanks.
- 7 Circulate with water treated with biocide until clean returns. Continue to circulate for additional 2 hours to ensure all gas and oil is removed.
- 8 PUH to 1400'.
- 9 MIRU cement company.
- 10 Commence pumping cement job at pump rate of consisting 5 bbl fresh water spacer, 70.5 bbl (297.9 sx) of Type III + with 0.5% CaCl<sub>2</sub> at 14.8 ppg and 1.33 cuft/sk blended for a 3 hr pump time (design is for cement from 1400' to 650').
- 11 TOOH with 1-1/4" tbhg until EOT is at +/- 400' and circulate 2x tubing volume or until cement cleans up. TOOH remaining 1-1/4" tbhg and LD all 1-1/4" tbhg.
- 12 Break lines and clean up with fresh water. RMDO cement company.
- 13 ND bop, ND dual entry flange. NU 2-3/8" tbhg head and BOP. Function test and document.