

RECOMMENDED PROCEDURE:

1. MIRU. SI well.
2. POOH w/rods & pump.
3. Install BOP, POOH w/tubing and packer seal assembly.
4. RIH w/5-1/2" packer and pick up 2-7/8" workstring, set packer @ 2500', load the back side w/TFW, and pressure the tubing-casing annulus to 1000 psi. Try to pump into production/intermediate casing annulus at 1500 psi. If rate of 1 BPM or higher is attained, run tracer survey down the tubing while injecting down the casing/casing annulus. If slug continues down, follow slug of at least 10 MCI at least to 1250' to determine the depth of the waterflow.

If a rate of less than 1 BPM is obtained, continue to pump fresh water for approximately 1 hr, or until 70 bbls have been pumped. This will dissolve a salt bridge in the event there is one.

If water cannot be pumped down annulus, go to step 6.

5. If fluid is pumped past the casing shoe of the intermediate, rig up cementers and cement between the casings w/20 sxs Class 'C' w/18% salt mixed w/6.3 gals fresh water/sack.

Tail in w/94 sxs Class 'C' cement w/2% CaCl_2 mixed w/6.3 gals fresh water/sack. Pressure and rate should be recorded during cementing and sent to the division office.

6. Displace cement slurry w/fresh water through the wellhead. Do not displace cement in the casings annulus. Close the intermediate casing valve SION. POOH w/workstring & packer.
7. If the casing annulus will not take water at a rate sufficient (3/4 BPM) to pump cement, the following should be done:
 - A. POOH w/packer and workstring.
 - B. GIH w/perforating gun 4" centralized 90° phasing w/.44 EHD hollow carrier.
 - C. Perforate the following w/2 JSPF - 1260' & 1259'.
 - D. POOH w/perforating gun.
 - E. Check for water flow.
 - F. RIH w/RBP and retainer & set RBP @ 2500', test to 1500 psi and spot 2x sand on top, set retainer @ 1100'.
 - G. Circulate 94 sx Class 'H' cement w/2% CaCl_2 mixed @ 16.4 lbs/gal through perfs.
 - H. Displace cement below ~~packer~~ ^{retainer} w/9 bbls TFW. Close csg valve after pumping 20 bbls and squeeze away. Flush wellhead with fresh water to clear valve.
 - I. Shut in for 30 min.
 - J. Pull out of retainer. Pull up 100' and reverse out 20 bbls TFW. Shut in for 24 hrs.
 - K. Sting back into retainer and see if squeeze holds to 600 psi. POOH w/tubing. Resqueeze if necessary.
 - L. GIH w/4-3/4" bit & workstring. Drill out cement and pressure test squeeze to 600 psi. POOH w/ bit and workstring.
 - M. RIH and retrieve RBP. POOH w/RBP & workstring.
8. RIH w/tubing and seal assembly--rods & pumps.
9. Place well on production.

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O.C.D.
HOBBS OFFICE