

BRADENHEAD REPAIR PROCEDURE
GELBKE COM 1E

February 11, 1993

1. Record TP, SICP, and SIBHP.
2. MIRUSU.
3. Blow down well. Do not kill if possible.
4. Install BOP.
5. Tag bottom and TOH with 2 3/8" tubing.
6. Make a scraper run for the 4 1/2" liner.
7. TIH with RBP and set at 6900'. Cap with 5 sacks of sand.
8. Make a scraper run for the 7" casing.
9. Pressure test the entire wellbore to 1000 psi.
10. If either casing string or the liner top do not hold pressure, locate leak(s), and notify Paul Edwards in the Denver office before proceeding with any squeeze work.
11. Run a GR/CBL from 6900' to surface. Determine TOC for the 4 1/2" liner, and for both stages of the 7" casing primary cement jobs.
12. TIH with RBP and set at 3000'. Cap with sand.
13. TIH with a 4" casing gun and perforate two holes between the Fruitland and the PC (estimated to be at 2590'). Check depth by correlating the GR/CBL with Halliburton's Spectral Density Log for the Lawson Gas Com B 1 of sec 11, T31N R11W, dated 90/10/01. If the CBL run in step 11 shows that the PC and Fruitland are not in communication then steps 13-17 may not be necessary.
14. TIH with cement retainer and set at 2200'.
15. Conduct a block squeeze by pumping 600 sacks of cement through the perfs. Because this squeeze is being conducted across the PC & Fruitland, the cement slurry should contain adequate fluid loss additives and should be preceded by a preflush used in high fluid loss applications.
16. Sting out of retainer, TOH, and WOC.
17. Drill out cement to RBP. Pressure test squeeze perfs and resqueeze if necessary.
18. Reset RBP to 1500' and cap with sand.
19. TIH with a 4" casing gun and perforate two holes within 50' of the TOC of the second stage primary cement job.
20. Establish circulation to surface through perfs until returns are clean, clean, clean. Calculate annular volume.
21. Conduct a circulation squeeze by pumping 200% of the calculated annular volume. Do not displace until cement returns are seen at the surface. Displace with water, hold pressure on squeeze, and WOC.
22. If cement is circulated to surface, tie into the bradenhead and keep cement level at the surface in case any fallback occurs.
23. Drill out cement, pressure test, and resqueeze if necessary.
24. TOH with RBPs at 1500' and 6900'. Lay down 2 3/8" tubing.
25. TIH with 1" coiled tubing, clean out to PBD (7170') with nitrogen, and land at 7110'.
26. Modify wellhead accordingly for the coiled tubing.
27. Return well to production.

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