* Check w/ Production and hot oil/water if needed.

1. MIRU PU. POH w/ rods and pump. NU BOP.
2. POH w/ 2 3/8" CA.
3. RIH w/ 4 1/2" RBP on 2 3/8" WS. Set RBP @ 6000'. Test RBP to 500 psi. Dump 2 sx sd on top of RBP. POH. (If 4 1/2" csg leaks, isolate holes w/ straddle tools and est PIR and pressure. Repair csg as needed. If cmt circ's to surface, omit steps 4 - 7).
4. Run Free Pipe log f/ 6000' to surface to determine TOC.
5. Perf 4 1/2" csg w/ 4 shots off Free Pipe log to est circ to surf.
6. RIH w/ 4 1/2" FBRC pkr on 2 3/8" WS. Set pkr above sqz holes. PA to 500 psi. Attempt to est circ to surface via 8 5/8" x 4 1/2" ann w/ MXP 2000 psi. Circ annulus fluids to TT as free oil was noted at the surface behind the 8 5/8" csg. POH w/ pkr.
7. RIH w/ 4 1/2" CR on WS. Set CR above sqz holes. PA to 500 psi. Cement the 8 5/8" x 4 1/2" ann to surface as needed w/ MXP 2000 psi. Upon cmt rtns @ the surface, close the 8 5/8" x 4 1/2" valve and sqz + 50 sx cmt into the formation behind the 8 5/8" csg w/ MXP 2000 psi. Fill cellar @ surface w/ cmt. POH w/ stinger.
8. RIH w/ 3 7/8" bit, 3" DC's on WS. DO cmt inside 4 1/2" csg and test to 500 psi. Re-sqz if needed.
9. Wash sd off RBP. POH w/ bit.
10. RIH w/ rtvg hd on WS. Rlse RBP. POH LD 2 3/8" WS & RBP.
11. RIH w/ 2 3/8" prod tbg w/ 2 3/8" SN as before. ND BOP. NU THF. RIH w/ rods and pump.
12. TOTPS.

D. R. Dees

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8-4-86