

State 19 Com. #2
Millman Morrow, South
Eddy County, New Mexico

Project Engineer: K. L. Midkiff

Office: (915) 686-5714
Residence: (915) 686-8650

Procedure

1. MIRU PU on Empire 16 St. Com. #1. Release Guiberson UNI-VI packer and POOH. Lay down 315 joints of Hydril 563 tubing. Transport tubing to State 19 Com. #2. Send packer in for re-dressing. Redress packer as 10000 psi rated packer and use in State 19 Com. #2. Also transport sufficient Hydril 563 tubing from Artesia yard to State 19 #2 to finish string.
2. RU wireline on Empire 16. Set CIBP at $\pm 10050'$. Load hole with packer fluid (fresh water with 10 gal/1000 gal Tretolite KW-170). NU wellhead with pressure gauge. RD wireline and PU.
3. MIRU PU on State 19 Com. #2. Kill well. ND wellhead, NU BOP. Have water on hand to kill well if it starts gassing (bad H₂S). Pull standing valve (fishing neck is 1" rod). Release Guiberson UNI-VI packer and POOH. Redress packer, and keep it in the shop.
4. RIH with casing scraper to 10750'. POOH.
5. MIRU wireline company. Set CIBP at 10720'. Bail 35' of cement on top of CIBP. Pressure test casing to 2350 psi. If casing holds continue, otherwise hunt for leaks with packer. Squeeze under a retainer if necessary, then drill out cement and re-test.
6. Run cement evaluation tool from PBDT to 8900'. Fax log to engineer for evaluation. RIH with tubing open ended and circulate with packer fluid (2% KCl with 5 ga/1000gal Tretolite KW-170), POOH. Lay down tubing, send in for inspection.
7. RIH with tubing conveyed perforating assembly (see attached diagram), 10000 psi rated Guiberson UNI-VI packer with top cut for Hydril 563 (from Empire 16), 1.781" SN cut for hydril 563 threads, and hydril 563 tubing to PBDT. Hydrotest tubing in hole to 9500 psi. Run packer to $\pm 10540'$ and set it (be sure guns are located correctly). Guns should be set to perforate 10585'-10597' (4 JSPF). Run GR logs to correlate gun location. Test backside to 2500 psi.
8. Obtain new tubing hanger cut for Hydril 563 thread. ND BOP, NU wellhead. Test wellhead to 5000 psi. Load 1000' of tubing (4 bbl).
9. Detonate guns. Put well on test.