

HAWTHORNE OIL AND GAS CORPORATION  
DELTA FEDERAL #1  
CHOSA DRAW FIELD  
EDDY COUNTY, NM

PROPOSED RECOMPLETION PROGNOSIS

- 1) MIRU workover unit and reversing unit.
- 2) RU & kill well. Test csg to 1500 psi.
- 3) RD xtree, RU BOPs.
- 4) Pick up tbq pulling seal assembly out of packer. Attempt circulation, sting seals back into packer and retest csg to see if seals hold pressure.
- 5) Squeeze cmt into perfs @ 11,333'-11,354', pull seals out of packer and dump 30' cmt above DB packer. Pull 1 jt tbq and reverse excess cmt out. Test squeeze 2500 psi.
- 6) POOH laying down 2-7/8" tbq. Get replacement (exchange if possible) 2-3/8" 4.7# EUE N-80 tbq from R & R Pipe in Lovington, NM or Caprock Pipe (Best Deal).
- 7) MU 5" 18# Lok-Set with 6' pup joint & nipple profile below packer. GIH, set Lok-set @ 10,700'±. Run on & off tool with seal assembly.
- 8) Circulate inhibitor around with 2% KCl water.
- 9) ND BOPs; NU xtree.
- 10) RU swab unit and swab well to 2400'.
- 11) Perforate 10,834' to 10,866' 2 JSPF, 0° phased, decentralized.
- 12) Open well to flow test, swab if necessary.
- 13) Acidize well w/2000 gallons mud acid.
- 14) Flow treatment back, swab if necessary, test well.

CRS:tpd  
DRL/DELFED#1.CRS