

MALAGA PROSPECT Sec. 15, T-24-S, R-28-E Eddy County, New Mexico

## DRILLING PROGNOSIS

- 1. With rat hole machine drill rat hole and mouse hole.
- 2. Drill 26" hole to 40' w/rat hole machine.
- 3. Set & cement 1 jt. 20" conductor pipe @ 40' below ground level w/ Redi Mix concrete.
- 4. Move in & rig up rotary drilling rig.
- 5. Drill 17<sup>1</sup>/<sub>2</sub>" hole to ±600' using 10#/gal brine w/salt gel & LCM as required for seepage control.
- 6. Run 13-3/8" 54.5#/ft K-55 JTC to T.D. ±600'. Use float shoe on bottom; float collar at top of 1st joint; 3 centralizers on bottom 3 joints; Halliburton weld "A" on bottom 3 joints.
- Cement 13-3/8" casing w/200 sx Howco Thixet w/5#/sx Gilsonite, 1/4# flocele followed by 500 sx Class C 2% CaCl and 1/4#/sx flocele.
- 8. Nipple up OCT casing head C-22, 13-3/8" OD SOW X 13-5/8" 5000# WP, w/2-5000# WP Flanged outlets, w/48" OD X  $1\frac{1}{2}$ " thick 4 rib base plate.
- 9. Nipple up 12" X 3000 WP blow out preventer w/pipe & blind rams, 12" 3000# Hydril blow out preventer and choke manifold.
- 10. Drill 12¼" hole to ± 9800' w/following fluid properties: 600' 9000' 10# brine no viscosity or W.L. control LCM as needed. 9000' - 9800' 10# brine, vis 33, W.L. 30.
- 11. Log well.
- 12. 9-5/8" casing to be drifted to 8.5" I.D., electronically inspected on location. Run 9-5/8" 40#/ft N80 LTC, 40# S95 LTC, & 43.5# S95 LTC to 9800' w/DV tool at 4800', float shoe & float collar, centralize bottom 6 joints & use Howco weld "A" on bottom 3 joints.
- 13. 9-5/8" casing cement:
  - Stage 1: 1170 sx of Trinity Lite-Wate w/.5% CFR-2 \$ 1/4# Flocele/sx followed by 300 sx Class H w/.5% CFR-2. Circulate 6 hrs. after plug down & DV tool opened.

14. Land 9-5/8" casing w/slip & seal assembly, cut off casing, install 13-5/8" 5000# WD X 11" 10,000# WP W/2 1-13/16" 10,000# WP studded outlets casinghead spool.

Stage 2: 1300 sx Howco Light w/8#/sx salt & 1/4#/sx Flocele followed by 200 sx Class C Neat. Adjust volumes as per Caliper Log.