

BONE FLATS 12 - 3
1980' FSL & 760' FWL Surface
Section 12, T-21-S, R-23-E
Eddy County, New Mexico

AFE: AFE Cost: DHC:

Date: August 18, 1997

MOC: WI - NRI:

Purpose: Drill two short-radius laterals

Elevation: GL - 3,741' KB - 3,757' PBTD - 7,955'

KOP: 7,725' MD Target TVD: 7,794' - 7,850' MD(Log) Planned Radius: 115'

Surface Casing: 9 5/8" O.D., 36#, J-55 set at 1,207'. Cement w/ 820 sxs., Circ.

Production Casing: 7" O.D., 23# & 26#, K-55 set at 8,050', DV tool at 6,336'. Cement 1st stage w/ 350 sxs., circ. Cement 2nd stage w/ 775 sxs., circ.

Tubing:

Rods/Pump:

Perforations: 7,778' - 7,868'

Estimated SBHP: 1,900 psi

Safety:

- Hold daily safety meetings explaining the proposed procedure.
- H2S concentration - 5,000 PPM
- Keep TIW on rig floor for all pipe connections at all times.
- Use 10# Brine to kill well if necessary.

1. Lockout/tagout energy source. RDMO pumping unit. Prepare location as necessary for pulling unit. Test safety anchors to 22,500# if necessary.
2. MIRU pulling unit. Kill well as necessary. Install rod stripper. Unseat pump and TOO H w/ rods, laying down. Install 7 1/16" 3M dual ram hydraulic BOP(blind rams on bottom and 2 7/8" pipe rams on top) with Torus annular. TOO H w/ tubing.
3. RU wireline company. Install and test lubricator. Make gage ring run to 7,750'. Set top of 7" CIBP at 7,720' (5' above casing collar at 7,725').
4. TIH w/ 2 7/8" O.D. tubing. Test plug to 1000 psi. Hot water tubing to clean up paraffin. Circulate hole clean w/ FW. TOO H w/ 2 7/8" O.D. tubing, laying down. ND BOPE. NU 7 1/16" 3M X 2 7/8" 8rd EUE adapter flange. Install 2 7/8" master valve. RDMO pulling unit.
5. Clean location. Build and line 40' X 40' X 6' dump pit. MIRU horizontal pulling unit package. NU 7 1/16" 3M dual ram hydraulic BOP(with blind rams on bottom and 3 1/2" pipe rams on top) and 7 1/16" 3M annular. Test BOPE to 250/1500 psi. with test plug.
6. TIH w/ 6 1/8" window mill, smooth OD watermelon mill and casing scraper while picking up 3 1/2" O.D. drillpipe to 7720'. Set 20K on CIBP at 7,720'. Adjust talley and TOO H.
7. PU 5.5" Weatherford 3 Degree "WhipBack" whipstock assembly, starting mill, and orientation sub. TIH w/ 6 - 4 3/4" O.D. DC's on 3 1/2" drillpipe. RU Wireline unit. RU and run SRG to orient whipstock at 101 degrees Az. Set whipstock and release starting mill. Start casing exit w/ starting mill. TOO H. PU Window mill, and Watermelon mill. TIH. Finish casing exit. TOO H. TIH w/ 6 1/8" bit, watermelon mill, watermelon mill on 3 1/2" DP. Open up casing exit and drill pilot hole to at least 7,625'. Window to be cut with fresh water. Circulate hole clean. Mud up w/ 1.75 - 2.0 PPB XCD in fresh water. TOO H