NORTH INDIAN BASIN UNIT NO. 14 Unit B, 660' FNL & 2,310' FEL Section 2, T-21-S, R-23-E Eddy County, New Mexico

AFE:

Date: September 14, 1996

MOC: WI - 90.6825% NRI - 77.7180%

Purpose: Drill 1200' short-radius lateral

Elevation: GL - 3,696' KB - 3,712' PBTD - 7,773' (CIBP)

Surface Casing: 9 5/8" O.D., 36#, J-55 set at 1,213'. Cement w/ 684 sxs., Circ.

Production Casing: 7" O.D., 23# & 26#, K-55 set at 7,989', DV tool at 6,028'.

Cement 1st stage w/ 475 sxs., circ. 100 sxs. Cement 2nd stage w/

775 sxs., circ.

Tubing: BP MA, perf sub, 10 jts. 2 7/8" O.D., 6.5#, L-80 tubing, 2 7/8" X 7" TAC,

236 jts. 2 7/8" O.D., 6.5#, L-80 tubing, 2 - 2 7/8" O.D., L-80, 6.5# tubing

subs.

Rods/Pump: 2 1/2" X 1 3/4" X 26' Pump w/ 1 1/4" X 8' gas anchor, 1 - 1" N97 rod,

33K shear tool, 154 - 1" N97 rods, 102 - 1.25" FG rods, 1 - 1.25" X 3"

pony rod, 1 1/2" X 24' PR w/ 1 3/4" X 16' PRL.

Perforations: Canyon: 7588' - 7602', 7620' - 7644', 7654' - 7684', 7690' - 7706', and

7716' - 7754'

2nd Canyon (Below CIBP): 7783' - 7800'

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.

- Unhang well and lockout/tagout energy source. RDMO pumping unit. Prepare location as necessary for rig. Build 50' X 50' reserve pit. Test safety anchors to 22,500# if necessary.
- MIRU pulling unit. Blow well down or kill well as necessary. Install rod stripper.
 Unseat pump and TOOH w/ rods laying down. Install 7 1/16" 3M dual ram hydraulic
 BOP. Release TAC and TOOH w/ tubing.
- 3. TIH w/ 2 7/8" O.D. tubing w/ 7" packer and RBP to 500'. Set plug, PU and set packer. Test pipe rams to 1500 psi. Release packer and TOOH. Test blind rams to 1500 psi. TIH w/ retrieving head on 2 7/8" tubing. Release RBP and TOOH.
- 4. TIH w/ 2 7/8" O.D. tubing openended to RBP at 7773'. Spot 100 sacks Class C + 1.0% FL-62 + 0.3% CD-32 + 0.2% SM mixxed at 14.8 PPG w/ 1.33 yield.PU to 7200' and squeeze perforations to 500 psi. Reverse out tubing. TOOH.
- 5. PU 6 1/8" bit, 6 4 1/2" DC's, and TIH. Drill out cement squeeze to 7765'. Test squeeze to 500 psi. Drill out CIBP at 7773'. TIH to 7900'. Establish injection into 2nd Canyon perforations. TOOH.
- 6. RU wireline unit. NU lubricator. Set 7" cement retainer at 7770'. RD wireline unit.
- 7. TIH w/ retainer stinger on 2 7/8" O.D. tubing. Sting into retainer and load backside. Establish rate into perforations. Squeeze perforations w/ 100 sacks Class C + 1.0%