Fannie Ward #1 Unit K, Sec.18, T30N, R11W San Juan County, New Mexico

Plug & Abandonment Procedure:

- MIRUSU. Comply with all NMOCD, PMCI and Southwest Production safety rules and regulations.
- Blow well down, kill with water if necessary. ND wellhead and NU BOP and stripping head; test BOP.
- POH and visually inspect and tally 2 3/8" tubing.
- 4. RIH to 6384', circulate water and spot cement Plug #1 from 6284' to 6384' with 11 sxs Class B cement (DK top 6334'). POH to 5522' and circulate hole clean.
- 5. Spot cement Plug #2 from 5422' to 5522' with 11 sxs Class B cement (GL to 5472'). POH 5 stands to 5212' and circulate hole clean. POH.
- 6. Rig up and perfporate 4 holes at 3490' (MV top 3440'). PU 4 1/2" cement retainer and RIH, set at 3390'; establish rate into perfs. Plug #3 from 3390' to 3490' with 55 sxs Class B cement, squeeze 39 sxs outside casing and 11 sxs inside. Pull out of CR and spot 5 sxs cement on top of CR. POH 5 stands to 3080' and circulate hole clean. POH.
- 7. Rig up and perforate 4 holes at 1923' (PC top 1873').
 PU 4 1/2" cement retainer and RIH, set at 1823'; establish
 rate into perfs. Plug #4 from 1823' to 1923' with 55 sxs
 Class B cement, squeeze 39 sxs outside casing and 11 sxs
 inside. Pull out of CR and spot 5 sxs cement on top of CR.
 POH 5 stands to 1513' and circulate hole clean. POH.
- 8. Rig up and perforate 4 holes at 1571' (FT top 1521').
 PU 4 1/2" cement retainer and RIH, set at 1471'; establish
 rate into perfs. Plug #5 from 1471' to 1571' with 55 sxs
 Class B cement, squeeze 39 sxs outside casing and 11 sxs
 inside. Pull out of CR and spot 5 sxs on top of CR. POH
 5 stands to 1161' and circulate hole clean. POH.
- 9a. Rig up and perforate 4 holes at 545' (50' below Kirt top and 214' below casing at 331'). Establish circulation out bradenhead; Plug #6 from 545' to surface with approximately 250 sxs Class B cement, circulate good cement to surface; shut in well; WOC.
- 9b. If circulation through bradenhead cannot be established in 9a, then pump 46 sxs Class B cement followed by 4 BW then 10 sxs Class B cement to establish an inside/outside plug