4. PU 4-3/4" bit and watermelon mill (to insure packer can be set) and clean out to PBTD +/-1848'. TIH with production packer, set at 1604' just above top perforation (1606') and test casing backside. If casing tests then circulate clean and TOOH.

5. RU wireline unit and run a Noise log (in conjunction with temperature log) from PBTD to surface to determine if a zone above the perforation may be the source of the excessive production of water. The noise log needs a flowing medium to gather data. Consequently it may be necessary to TIH with tubing, unload the hole, pull 2 or 3 joints of tubing, run the noise log tool while allowing the hole to load.

Modify the following plugging design as necessary to address cement top, possible stringers and flowing gas or water zones. If there are indications of water movement from 1606' to surface behind the 5-1/2" casing, call Operation's Engineer for perforation cement squeeze design.

If source of water cannot be determined then P&A well as follows:

6. **Plug #1** – (Fruitland perforations and top: 1845'- 1300'). TIH with tubing and set a 5-1/2" cement retainer @ 1496'. Pressure test tubing to 1000#. Establish rate below CR into existing perforations. Squeeze 74 sxs Class B cement below the CR and then spot 26 sxs above the CR to cover the FTC top. TOOH with tubing to 366'.

7. **Plug #2** – (8-5/8" Surface casing, 366' - Surface). Establish circulation out casing valve. Mix 39 sxs Class B cement and fill the casing to surface. Circ good cement out casing valve. TOOH. SI well and WOC.

8. ND BOP and cut below surface casing. Install P&A marker with cement to comply with regulations. RD, MOL, cut off anchors and restore location.

Recommended: Leslie C White
Production Engineer

Leslie White
Office: 326-9717

Approved: Bruce D. Boyer 12-19-00
Drilling Manager

Sundry needed.
Peggy Cole 12-19-00

LCW/lcw
12/15/00