new

Convert to Salt Water Disposal Procedure Jicarilla 30-5

MAY 2001

Objective:

To convert the well from its current state of temporarily abandoned Gallup/Dakota producer to a saltwater disposal well in the Mesa Verde. The well will need to be perforated in the Mesa Verde, a step rate test completed, stimulated if necessary, and tubing and packer installed.

Well Information:

Production Casing: 4 1/2" 10.5 lb/ft set at 7525'

Capacity - .01594 bbls/ft or .6698 gals/ft

Drift diameter 3.927"

Current Perfs: Gallup 6399' – 6439'

Dakota 7211' - 7413'

Proposed Tubing: 2 3/8" to 4550'

Capacity - .00387 bbls/ft or .1626 gals/ft

Proposed Perfs: Mesa Verde

Cliffhouse Member: 4672'-78', 4680'-96', Menefee Member: 4752'-58', 4772'-82' 4816'-26' 4846'-64', 4894'-4904', 4912'-16', 4930'-

40', 4996'-5000', 5008'-28', 5176'-82',

Point Lookout Member: 5204'-24', 5234'-44',

5278'-98', 5306'-26'

Procedure:

- 1. Rig up pulling unit.
- 2. Install BOP
- 3. Pressure test casing to 1500 psi.
- 4. RIH with 2 3/8" tubing to 5400' and circulate hole clean. Note: all fluid used in this procedure should be clean produced water.
- 5. Pull tubing up to 3000' and swab fluid level to that point, POOH.
- 6. Rig up perforating company with lubricator.
- 7. Perforate Point Lookout Interval of the Mesa Verde and the lowest section of the Menefee (5176') with 4 shots per foot.
- 8. Rig up a pump truck and begin pumping clean produced water into the perforations at ¼ BPM, continue increasing injection rate in 1/8 BPM increments (with each step being at least 5 minutes in duration or longer if necessary to get a stabilized rate and pressure) until a clear change in slope of the pressure rate curve occurs. Take at least two step beyond the break point before concluding the test. Record the pressure and rate