

Proposal For 2000 psi Surface Injection Pressure

- 1) While testing injectivity of Bone Spring in the Federal E #11 and Government K #2, a very heavy (.51 psi/ft.) water was injected as a source. While keeping the surface pressure @ a maximum of 1650 psi per Order R-9737, a gradient of .70 was achieved.

$$\text{Gradient} = \frac{1650 + 8500' * .51}{8500'} = .70$$

- 2) All injection was contained to the 1st Bone Spring Sand during these tests as evidenced by injection profile logs run in both wells.
- 3) The average frac gradient for the Querecho Plains Bone Spring is equal to .74 as determined by the ISIP of 17 fracture stimulation jobs which Mewbourne pumped at the field.
- 4) A significantly less heavy (.45 psi/ft.) water is proposed for injection water during full flood operations.
- 5) As a result of the less heavy water, a 2000 psi surface pressure will generate a gradient of .69 and should result in all injection staying contained to the unitized formation.

$$\text{Gradient} = \frac{2000 + 8500' * .45}{8500'} = .69$$

NEW MEXICO
OIL CONSERVATION DIVISION

EXHIBIT 26
CASE NO. 10761/10762