



P.O. BOX 2187
HOBBS, NEW MEXICO 88240

November 7, 1985

(505) 393-7726

Chevron USA DBA
Gulf Oil Exploration and Production
Post Office Box 670
Hobbs, New Mexico 88240

Attention: Mr. Chuck Blevins

Dear Mr. Blevins:

At your request, the water analyses of the CL&R Battery (done by Champion) and the Lea ABE #1 (done by Halliburton) were combined at 10/90, 50/50, and 90/10 ratios to determine any compatibility problems.

The ABE #1 shows a scaling tendency for Calcium Sulfate. As the water from the CL&R mixes, the scaling tendency decreases. It is expected that, at the front of the disposal flood, the Calcium Sulfate will probably form even under the pressure of the flood. It is recommended that Champion's Gyptron T-85, scale inhibitor, be added initially to the CL&R water at a rate of 5 ppm or 0.84 quart per 1,000 bbls. This should be continued for about 30-50,000 bbls. of water to treat the front. It is also recommended that Gyptron TSD, surfactant, be added at a rate of 20 ppm to keep the formation water-wet and keep injection pressures down. This should be continued throughout the life of the flood.

Oil in water tests and millipores should be run periodically to insure the water quality is good and plugging will be kept to a minimum.

If you have any questions or need further information, please call me at 393-7726.

Sincerely,

A handwritten signature in cursive script, appearing to read "Joe Edwards".

Joe Edwards
Technical Services Representative

JE:gr

cc: Steve Cooper
Richard Finley
Tommy Livingston
Jerry Skidmore
Cecil Brumley