MIDLAND E & P DIVISIOG

WELL WORK RECOMMENDATION: Proposals for Well Reconditioning and Subsurface Maintenance Workovers, Expense DD's, PB's, and Conversions

Lease:	Langlie-Mattix Queen Unit		Well	No.	19
Field:	Langlie-Mattix (Queen)				
County:	Lea	State:	New Maxico		

RECOMMENDED PROCEDURE:

- 1. Run Well Analysis Co., Inc.'s (WACO) radioactive survey to determine current injection distribution.
- 2. Pull the injection equipment.
- 3. Clean the well out to TD of 3,560'.
- Run tubing to a squeeze depth of 3,380'. Squeeze interval will be 3,380-3,560' - 180'.
- 5. Inject radioactive tagged water down the tubing casing annulus and Halliburton's Injectrol L down the tubing. Inject 100 bbls of Enjectrol L over the interval to be plugged. Shut the well in for 2 hrs. Inject 50 bbls of Injectrol L over the interval to be plugged.
- 6. Shut the well in for 24 hrs.
- 7. Clean the well out to TD of 3,560'.
- 8. Plug the well back to 3,380' with sand and a 10' hydromite cap.
- 9. Run 2' cement-lined tubing and an injection packer. Load the tubing-casing annulus with fresh water treated with 10 gals of Cortron 2207 per 1,000 gals of water. Set the packer approximately 50' above the top of the injection interval.
- 10. Put the well on injection.

NOTE: This workover has been discussed with WACO and Halliburton, and both companies are thoroughly familiar with the procedures to be employed.