

Gulf Energy and Minerals Company-U.S.

SOUTHWEST DIVISION
HOBBS AREA

C. D. Borland
AREA PRODUCTION MANAGER

P. O. Box 670
Hobbs, NM 88240

September 12, 1977

Mr. J. T. Sexton
New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, NM 88240

Re: Central Drinkard Unit
Water Injection Wells No. 151 & 162

Dear Mr. Sexton;

As per your request, attached are copies of the latest injection profile surveys and well schematics with pertinent bradenhead pressure and flow data.

As per our conversation at your office on September 9, 1977, these two water injection wells have the tubing-casing annulus pressured up as a result of leaking squeezed (abandoned) Tubb casing perforations, located above the injection packers. Our tests have indicated that the squeezed Tubb Zones in both wells have started to leak and, over a period of time, have thieved some of the packer fluid from the tubing-casing annulus. This has resulted in a gradual pressure build-up on the tubing-casing annulus.

In order to eliminate the pressure build-up problem, we propose to load the hole with corrosion-inhibited water (packer fluid), put another nickel-plated packer in the tubing string above the Tubb Zone, and isolate the Tubb Zone between the two packers. We further propose to monitor the bottom packer and the spacer tubing between the two packers for leaks by means of annual injection profile surveys. An injection profile survey would also be run in the event of a sudden change in injection rate or pressure which could indicate possible loss of injection water into the squeezed Tubb Zone. Any communication problems would be corrected as soon as they are detected.

Please advise if our proposal to correct the problem on these two wells meets with your approval.

Yours very truly,

By: D. F. Berlin
C. D. BORLAND

CRK/9-12-77/cm
Attachments



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