GRARIDGE CORPORATION

MAIL OFFICE OCC

POST OFFICE BOX 752

BRECKENRIDGE, TEXAS

1959 JUL 27 AM 8:36

July 24, 1959

Ola — Please see me re this — Dan

Oil Conservation Commission
State of New Mexico
Capitol Building
Santa Fe, New Mexico

ATTENTION: Mr. Dan Nutter

Dear Sir:

We are making a request to the State Engineer Office to eliminate the necessity for running tubing and packers into injection wells in North Caprock Queen Unit No. 1 in Sections 6, 7, and 8, T-12-S, R-32-E which are to receive only fresh water from the South plant (green). If the request is granted, we respectfully request that the Oil Conservation Commission amend Administrative Order WFX No. 12 in such a manner as to eliminate the necessity for running tubing an packer into North Caprock Queen Unit No. 1 Well No. 7-14.

If any additional information relative to this request is necessary, please advise us.

Yours very truly,

GRARIDGE CORPORATION

B. G. Harrison

B. G. Harrison
Manager of Secondary Recovery

BGH:gl

cc: Oil Conservation Commission
Hobbs, New Mexico

Graham
Mr. Cliff Chapman

GRARIDGE CORPORATION
IBEX BUILDING POST OFFICE BOX 752
BRECKENRIDGE, TEXAS

July 24, 1959

State Engineer Office
State of New Mexico
Capitol Building
Santa Fe, New Mexico

Attention: Mr. Frank E. Irby

Dear Sir:

Attached please find plats of North Caprock Queen Unit No. 1 which indicate the present injection wells, in red, the Oil Conservation Commission approved injection wells which have not yet been converted, in green, and the present injection system.

It will be noted that two (2) separate injection systems exist for this project and that these systems are not directly connected in any way. All of the produced brine water is being discharged from the free-water knockout at the LACT system to the North plant indicated in red on the plat. We plan to recycle all of the produced water through the North plant throughout the life of the project.

The South plant, indicated in green, is to receive only fresh water produced from the Lea County Water Basin so that only fresh water will be injected into the wells furnished by the injection system from this plant.

We definitely feel that corrosion in the South system will be much less than in the North system and, thus, the likelihood of casing leaks will be less. Should a casing leak develop in a well where the fresh water sands are not fully protected by surface casing, there would be no damage to these sands since only water, which has been produced from them would be the only possible contaminating fluid. We, of course, want our water injection program to be as efficient as possible and, therefore, would strive to prevent loss of any water through casing leaks.

Since there will be no possibility of contaminating the fresh water sands through injection wells served by the South plant, Graridge Corporation requests that the State Engineer Office waive its requirement of placing tubing and packer in these injection wells in which the fresh water sands are protected by a single casing string.

In keeping with this request, Graridge will furnish the State Engineer Office with a diagram showing the available completion information for each injection well at the time the application for converting the well to an injection well is sent to the Oil Conservation Commission.

Should it become necessary to connect the two injection systems at any time, Graridge Corporation will notify the State Engineer Office and will place tubing and packer into each injection well served by the South plant in which the fresh water sands are not adequately protected.

If the above request is granted, it is further requested that the State Engineer Office notify the Oil Conservation Commission that tubing and packer will not be required in Unit Well No. 7-14.

If we may be of service in supplying additional information, please do not hesitate to advise us.

Yours very truly,

GRARIDGE CORPORATION

B. G. Harrison

B. G. Harrison
Manager of Secondary Recovery

BGH:gl

Encls.

cc: State Engineer Office
Roswell, New Mexico

Oil Conservation Commission
Santa Fe and Hobbs, New Mexico

Mr. Cliff Chapman
Graham Office