19th

SHELL OIL COMPANY

HOBBS OFFICE OCC

P. O. Box 845
Roswell, New Mexico 1959 JUL 27 PM 2:30

July 24, 1959

Subject: Application by Shell Oil Company for Permission to Dispose of Produced Salt Water from the Pearl Queen Field in the Queen Formation

AIR MAIL

Case 1740

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention Mr. A. L. Porter, Jr.

Gentlemen:

By this letter of application, Shell Oil Company requests the following Application for a Permit to inject water as required by Rule 701 of the Rules and Regulations of the N.M.O.C.C. be heard at the scheduled August 19 Examiner's Hearing of the N.M.O.C.C. in Santa Fe, New Mexico.

It is Shell's desire to install a salt water disposal system for our properties in the Pearl Queen Field. It is proposed to complete our plugged and abandoned Allen Estate #3 well located in Unit P, Section 27, T-19-S, R-35-E, Lea County, New Mexico, in the Queen Formation in the interval 4,900 to 4,918 feet for disposal service. It is also proposed to complete our temporarily abandoned Record #1 located in Unit L, Section 26, T-19-S, R-35-E, Lea County, New Mexico, in the Queen Formation in the interval 4,870 to 4,884 for disposal service if the injectivity of Allen Estate #3 is insufficient to handle the 250 barrels of salt water produced per day from our properties. The attached plat (Exhibit I) shows the location of these two proposed injection wells and all of the oil and gas wells, drilling wells and dry holes within one-half mile of the disposal wells.

660 from South & East lines Sec. 27

Allen Estate #3 has 8 5/8-inch casing set at 96 feet which is cemented to surface. It is proposed to complete Allen Estate #3 for disposal by cementing a string of 5 1/2-inch J-55 15.5# casing at 4,900 feet with 200 sx. of cement. This casing will be tested at 1,000 psi for 30 minutes prior to use for injection of salt water. Injection will be thru a string of 2 1/2-inch plastic coated tubing set with a packer at 4,875 feet.

Record #1 has 8 5/8-inch casing cemented to surface at 324 feet and 5 1/2-inch casing cemented with 500 sx. plus 40 per cent Diacel and 200 sx. Regular at 4,918 feet. If it is necessary to use this well to dispose of all of the produced water from our properties in this field, this

Docket Mailed 8-4-59 jjh

1980 FSL 660 FWL 4918'

well would be completed by squeezing the present perforations at 4,687 to 4,689, 4,690 to 4,696, 4,843 to 4,845, and 4,847 to 4,849 feet, and perforating the interval 4,870 to 4,884 feet. Plastic coated tubing would be set on a packer at 4,850 feet.

Attached are the Electrical Logs (Exhibits II and III) for both of the proposed injection wells.

Very truly yours,

P. A. Dennie
Division Production Manager

Attachments