

*Case 2359*

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August 14, 1961

New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.  
Secretary-Director

Re: Shell Oil Company Application  
for Pilot Water Flood Project  
Townsend Wolfcamp Field  
Lea County

Gentlemen:

We have heretofore submitted an application on behalf Shell Oil Company for permission to initiate a pilot water flood test as indicated above.

We now have some additional data which we would like to furnish the Commission as part of our application.

Please find enclosed herewith a plat showing the location of the proposed injection well and the location of other wells within a radius of two miles of the proposed injection well. This plat also shows the lease ownership of the adjoining acreage.

The Injection Well is the Texas Pacific Coal and Oil Company State of New Mexico J#2 Well located 2310 feet from the south and west section lines of Section 10, Township 16 S. Range 35 E.

We have also enclosed with this letter a log of the proposed injection well prepared by Haliburton Oil Well Cementing Company. The casing program generally for this injection well is as follows:

13 3/8" @ 353' cemented w/400 sx (circulated)  
8 5/8", 32#, H&J @ 4660' cemented w/2500 sx (circulated)  
5 1/2", 17#, J&N @ 10,640' cemented w/300 sx neat cement.

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It is proposed that the injection well be reperforated at 10,552 feet to 10,557 feet, from 10,574 feet to 10,581 feet and also from 10,586 feet to 10,592 feet. It is intended to inject approximately 1000 barrels of water per day into the Wolf Camp Formation through these perforations in order to evaluate the water flood potential of the reservoir. The injection water will be a saline water from the Santa Rosa Formation and to be produced approximately 1500 feet in depth from an existing well located in the NW $\frac{1}{4}$ NW $\frac{1}{4}$  of Section 16, Township 16 South, Range 35 East.

If there is any further data that is needed prior to the hearing, please advise us.

Very truly yours,

SHELL OIL COMPANY

By



OS:wcl  
Enclosures