RE CASE 334

FIELD ADDRESS:

P. O. BOX 667
KERMIT, TEXAS

WORTH DRILLING COMPANY, INC.

FORT WORTH NATIONAL BANK BUILDING
FORT WORTH, TEXAS

December 5, 1951

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

Gentlemen:

We have corresponded with you concerning our intentions to enter into a water flooding program on our A. C. Taylor lease in Sections 1, 12 & 13, Twp. 18-S., Rge. 31-E., Eddy County, New Mexico. This was by letter dated October 18, 1951. You replied by letter dated November 1, 1951, that it would be necessary to secure approval of the Oil Conservation Commission after a hearing is held. We submit herewith, in triplicate, our application giving all pertinent information in the matter. We also enclose, in triplicate, a plat of our lease showing the proposed injection well.

We would greatly appreciate it if the matter could be set for the earliest possible hearing.

Yours sincerely,

Joseph D. Kennedy
Secretary-Treasurer

JDK:lc
Encls.

Re CASE 334

FIELD ADDRESS:
P. O. BOX 667
KERMIT, TEXAS

WORTH DRILLING COMPANY, INC.
FORT WORTH NATIONAL BANK BUILDING
FORT WORTH 2, TEXAS

December 5, 1951

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

Gentlemen:

Worth Drilling Company, Inc. is the operator of a Federal Oil and Gas Lease covering all of Sections 1, 12 & 13, Township 18-South, Range 31-East, Eddy County, New Mexico. There are 12 producing wells on the lease. The producing area of the lease is outlined in red on the plat. All wells are being pumped by individual pumping units.

Production is from the Queen sand encountered at a depth of approximately 3550'. The thickness of the producing zone varies from 15' to 20' and it is a loosely consolidated, fine-grained sand. Geological data indicates that the production is from a stratigraphic trap limited by the decrease of porosity of the Queen sand. Under the conditions of a single sand pay which is fairly consistent throughout the producing area and the evidence of the stratigraphic trap, the lease appears to be ideally suited for secondary recovery by water flooding.

As we are limited in the amount of water which we can make available for water flooding, we intend to inject water in only one well, the A. C. Taylor "A" No. 3. We plan to inject water by gravity, provided the formation takes the water in a satisfactory manner. If necessary, the water will be injected by pressure. The proposed injection well was drilled to a total depth of 3595', the pay zone was from 3566' to 3585', 7" casing was set at 3448', cemented with 100 sacks of cement, and the well was shot with 60 quarts of solidified nitro-glycerin from 3561'to 3585'. This well was completed June 22, 1947. The initial production was 81 barrels of oil per day pumping, and it is now producing from 3 to 4 barrels of oil per day.

We plan to obtain our water from 3 wells as follows: The Malco-Taylor "B" No. 1 was a dry hole, but the 8-5/8" surface casing was not pulled. We intend to perforate opposite water producing sand from 385' to 450' and convert this old dry hole to a water well. Our A. C. Taylor "A" No. 3 had good shows of water from 480' to 520', and we plan to drill a water well which will be a twin to the No. A-3. We already have a water well which is a twin to our A. C. Taylor "A" No. 1. This also is producing water from the sand encountered at approximately 450'. From these 3 water wells we expect to produce from 400 to 600 barrels of water per day, which amount we think to be sufficient for the one injection well. We intend to inject from 400 to 500 barrels of water per day.

We respectfully request that the Oil Conservation Commission consider all data submitted and set a hearing for our application at the earliest possible date.

If any additional information is needed, we will be glad to supply it.

Yours sincerely,

Joseph D. Kennedy
Secretary-Treasurer

JDK:lc