



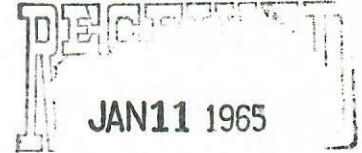
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January 8, 1964



Oil and Gas Commission
Room 312 - State Services Bldg.
1525 Sherman Street
Denver, Colorado 80203

OIL & GAS
CONSERVATION COMMISSION

Re: Shoreline Field
To Commingle Production
in "J" and "O" Sands

Dear Sirs:

Paul H. Umbach, Operator, requests the Commission enter an order granting Applicant leave to complete its Whitaker No. 1 well for production from the "J" and "O" Sands and to commingle the production therefrom, and in support of its application states:

1. Applicant's Whitaker No. 1 well is located in the center of the SE $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 9, T. 9 N., R. 53 W., 6th P.M., Shoreline Field, Logan County, Colorado. The location of wells on adjacent lands is shown on the plat attached hereto and marked Exhibit "A".


2. Applicant is the operator and co-owner with H. A. Nunn, John Dixon, Toltek Drilling Company and Sterling Oil Company of the oil and gas lease covering the land on which the Whitaker No. 1 well is located and said well is producing from the "J" and "O" sands of the Dakota formation.

3. The Whitaker No. 1 was drilled to a total depth of 5165 feet. A test of the "J" Sand was made by Drill Stem Test from 4882 to 4886 feet recovering a total of 400 feet of total fluid with 30 feet free oil, 20 feet of oil cut mud and 350 feet of water with a shut-in pressure of 909 pounds.

The "O" sand was tested by perforating with 4 cone shots per foot from 5088 to 5091 feet swabbing one barrel per hour of 17 gravity oil and no water.

The "J" sand was further tested with 4 cone shots per foot from 4875 to 4881 feet, swabbing one and one-half barrels of fluid per hour, 28% oil, 72% water.


The "J" sand was then fraced with 10,000 gallons of oil and 10,000 pounds of sand and swabbed with a Baker


plug set at 5000 feet at the rate of 15 barrels of fluid per hour, 25% oil, 75% water. The Baker plug has now been removed with the well pumping at the rate of 350 barrels of water and 20 barrels of oil per day.

4. The geological and engineering data indicate that the Whitaker No. 1 well can be commingled in the well bore without any damage to any of the formations because of the commingling.

5. The commingling of production from the "J" and "O" sands will prevent waste by recovering additional oil on a commercial basis that would not otherwise be recovered.

Respectfully submitted,


Paul H. Umbach
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Boulder, Colorado