

Gulf Oil Exploration and Production Connection

R. C. Anderson RODUCTION MANAGER, HOBBS AREA

P. O. Box 670 Hobbs. NM 88240

Re: H. T. Mattern (NCT-D) No. 13 Unit N, Section 6-T22S-R37E Lea County, New Mexico

Mr. Joe D. Ramey, Director New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Mr. Ramey,

Your administrative approval is requested for an exception to Rule No. 303--C to permit down hole commingling of marginal Tubb and Drinkard production in the subject well.

The subject well was drilled and completed in 1975 in the Drinkard. In November, 1980, the Drinkard was temporarily abandoned with a bridge plug. Before abandonment, the well pumped 7 barrels of oil, 10 barrels of water and 83 MCF gas per day in November, 1980, on test. The well was recompleted in the Tubb and is currently producing 7 barrels of oil, 42 MCF of gas and 20 barrels of water per day.

Surface commingling of Tubb and Drinkard production was approved for the H. T. Mattern (NCT-D) lease per commingling order PLC-52, on September 26, 1980. Down hole commingling of Tubb and Drinkard production currently exists on the H. T. Mattern (NCT-D) No. 16 and No. 17.

There has been no evidence of incompatibility of fluids or reservoir damage from down hole commingling of Drinkard and Tubb production. Ownership in the two pools is common and correlative rights will not be violated.

If this application is approved, the Drinkard, which was temporarily abandoned with a bridge plug, will be commingled with the Tubb and both zones produced with existing pumping equipment.

All offset operators have been notified by copy of this proposal to down hole commingle the subject well. Should secondary operation become practical in the future, the two zones could be separated at that time without damage to either reservoir.

Yours very truly,

R. C. Cuderson

RQH/tmd

Attachments



cc: Oil Conservation Division-Hobbs C. F. Kalteyer-Midland All Offset Operators Division Director

ISION OF GULF OIL CORPORATION

Offset Operator--H. T. Mattern (NCT-D) No. 13 Section 6-T22S-R36E

Texas Pacific Oil and Gas P. 0. Box 4067 Midland, Texas 79701

Arco P. O. Box 1710 Hobbs, New Mexico 88240

Continental Oil Company P. O. Box 959 Midland, Texas 79701

Amerada Hess P. O. Box 840 Seminole, Texas 79360

El Pase Natural Gas Company One Petroleum Center Midland, Texas 79701

Sohio P. O. Box 3000 Midland, Texas 79701

H. T. Mattern (NCT-D) No. 13

1. Operator

Gulf Oil Corporation P. O. Box 670 Hobbs, New Mexico 88240

H. T. Mattern (NCT-D) No. 13 Unit N, 810' FSL and 1930' FWL Section 6-T22S-R37E Lea County, New Mexico

Currently producing in the recently completed Tubb Pool, which is to be commingled with the temporarily abandoned Drinkard Pool, if approved. The Drinkard was temporarily abandoned November 14, 1980.

Recent tests for decline purposes are shown on the attached sheets for the recently completed Tubb Zone. Decline curves for the Drinkard are attached.

The Tubb Zone was closed in for 24 hours. The surface pressure was recorded and several fluid levels were recorded. The surface pressure was 240 Psig. The calculated pressure at the midpoint of the perforations (6283') was 830 psi. From recent fluid level shots on the Drinkard Zone, the pressure at the midpoint of the perforations (6572') was estimated to be 700 psi.

Drinkard and Tubb production are presently commingled in surface storage facilities on the H. T. Mattern (NCT-D) lease, per commingling order PLC-52, dated September 26, 1978. To date, there has been no evidence of fluid incompatibility.

The well was spudded 7-10-75 and drilled to 6715' total depth. Production casing, $5\frac{1}{2}$ ", was set at 6712' with the top of the cement 2230' from surface. Initial completion was in the Drinkard, 6484'-86', 6534'-36', 6562'-64', 6593'-95', 6616'-18', 6631'-34', 6658'-60' with (4) $\frac{1}{2}$ " JHPF. Each perforation set was straddle acidized with approximately 250 gallons 15% acid. August 13, 1975-the above zones were fracture treated with a 9.2 lbs./gallon gel, 25,000 gallons,with 1 to 2 lbs./gallon sand. May 12, 1976- the formation was treated with 3000 gallons 15% acid. November 14, 1980-the Drinkard was temporarily abandoned with a cast iron bridge

3. Producing Zones

2. Lease, Well and Location

4. Decline Curves

5. Bottom-hole Pressures

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Fluid Characteristics

7. Well History

6.

plug set at 6450° . The Tubb was perforated the same day, 6239'-42', 6276'-79', 6324'-27'with (2) ½" FHPF. November 17, 1980-the perforations were straddle acidized with approximately 250 gallons per set. The zone was then fracture treated with a 8.6 lbs./gallon gel, 40,500 gallons, 55,126 lbs. of sand and 1500 gallons 15% acid.

8. Value of Commingle Fluids

Drinkard and Tubb commingled production from the H. T. Mattern (NCT-D) No. 16 and 17 on the lease have not been found less in value than the sum of the individual production values.

9. Current Production

See attached C-116.

10. All offset operators are being notified by copy of this application.



H. T. Mattern (NCT-D) No. 13 Prinkard Production

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