Gulf Oil Exploration and Production Company

June 21, 1979

R. C. Anderson PRODUCTION MANAGER, HOBBS AREA

P. O. Box 670 Hobbs, NM 88240

Re: H. T. Mattern (NCT-D) Wells No. 12 and 16, Section 6-22S-37E, Lea County, New Mexico

Mr. Joe D. Ramey State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Dear Sir:

We request your administrative approval for an exception to Rule 303-A to permit downhole commingling of production from the Tubb and Drinkard Pools in the subject wells. Present production from these two pools on the subject lease is being commingled in surface storage facilities under Commingling Order PLC-52 dated September 26, 1978. There has been no evidence of fluid incompatibility and we do not expect any reservoir damage due to downhole commingling in the subject wells. Ownership of the Tubb and Drinkard Pools on the subject lease is common, therefore, correlative rights will not be violated.

At the present time, the Drinkard zone is temporarily abandoned and the Tubb zone is being pumped in the subject wells. If this application is approved, the existing pumping equipment will be used to produce both of the commingled zones. We propose to run tubing through the Drinkard zone. Also, upon approval of this application, we will consult with the Supervisor in the Division's Hobbs District Office to determine a suitable allocation formula.

Additional information concerning this application as required by Rule 303-C is attached for your consideration. If you have any questions or comments concerning these matters, please contact this office.

Yours very truly,

anderso

R. C. ANDERSON

Attachments MDW/dch

cc: Oil Conservation Division P. O. Box 1980 Hobbs, NM 88240



All Offset Operators Address List Attached

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OIL CONSERVATION COMM. HOBBS, N. M.

OFFSET OPERATORS

H. T. MATTERN (NCT-D) WELLS NO. 12 AND 16

Rowan Companies, Inc. 1900 Post Oak Tower Building 5051 Westheimer Houston, TX 77027

Continental Oil Company P. O. Box 460 Hobbs, NM 88240

Getty Oil Company P. O. Box 249 Hobbs, NM 88240

Yarborough Oil Company P. O. Box 1001 Eunice, NM 88231

Petro Lewis P. O. Box 509 Levelland, TX 79336

Atlantic Richfield Company P. O. Box 1610 Midland, TX 79701

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Amerada Hess Corporation P. O. Drawer 817 Seminole, TX 79360

Texas Pacific Oil Company, Inc. P. O. Box 4067 Midland, TX 79701

Sohio Petroleum Company P. O. Box 3000 Midland, TX 79701

Shell Oil Company P. O. Box 1509 Midland, TX 79701

El Paso Natural Gas Company 600 Building of the Southwest Midland, TX 79701

OIL CONSERVATION COMM. HOBBS. N. M.

- Operator: Gulf Oil Corporation, P.O. Box 670, Hobbs, NM 88240 1. Lease, Well and Location: H. T. Mattern (NCT-D) No. 12, Unit K, 2. 2130'FSL & 1860'FWL Section 6-22S-37E, Lea County, New Mexico. Currently producing the Tubb Pool, which is to be commingled 3. Producing Zones: with the temporarily abandoned Drinkard Pool, if approved. Drinkard zone was temporarily abandoned on November 6, 1978. Decline Curve: See attached sheets. 4. Both zones require artifical lift in order to be 5. Bottom Hole Pressures: produced. Drinkard BHP 462 psi; Tubb BHP 672 psi. (Estimated from offset production.) Fluid Characteristics: Tubb and Drinkard are presently being commingled in 6. surface facilities on the H. T. Mattern (NCT-D) Lease. To date, there has been no evidence of fluid incompatibility. Well History: Well was spudded 6-23-75 and drilled to a total depth of 6800'. 7. Five and one-half inch production casing was set at 6800' with top of cement at 2440'. Present plug back depth for the well is 6759'. Initial completion was in the Drinkard zone through perforations at 6548-50',
 - Five and one-half inch production casing was set at 6800' with top of cement at 2440'. Present plug back depth for the well is 6759'. Initial completion was in the Drinkard zone through perforations at 6548-50', 6566-68', 6585-87', 6617-19', 6639-41', 6655-57'. Casing was perforated in each zone with four (4) 1/2" JHPF. Well was stimulated with 2,000 gallons 15% HCl and fracture treated with 35,000 gallons gelled water containing 1-2# 20-40 SPG. Initial production from the Drinkard zone was 110 BOPD and 140 BWPD, pumping. Approximately 15 months after completion, the well was acidized with 3,000 gallons 15% HCl. Prior to abandoning the Drinkard zone a production test showed 6 BOPD, 6 BWPD and 44 MCFGPD, pumping. In November 1978, a cast iron bridge plug was set at 6450', temporarily abandoning the Drinkard perforations 6548'-6657'. Tubb production in the subject well was established by perforating the intervals 6229-33', 6256-60', 6295-99', and 6340-44' with two (2) 1/2" JHPF. These perforations were then acidized with 1,200 gallons 15% HCl and fractured with 32,000 gallons of gelled water containing 45,000# 20-40 mesh sand. Initial production test for the Tubb indicated the well pumped 81 BOPD, 81 BWPD and 68 MCFGPD.
- 8. Value of Commingled Fluids: Drinkard and Tubb production is being commingled in surface storage facilities on the subject lease per Administrative Order PLC-52, therefore, downhole commingling will not affect the price.

9. Current Production: See Attached C-116.

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

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OIL CONSERVATION COMM. NOBBS. N. M.

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NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

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			Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60. Report casing pressure in lieu of tubing pressure for any well producing through casing. Mail original and one copy of this report to the district office of the New Mexico Oll Conservation Commission in accordance with Rule 301 and appropriate pool rules.	Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 6 will be 0.60.	No well will be assigned an ellowable greater than the amount of oil produced on the official test. During granoli ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.			• •	•				. •		H. T. Mattern (NCT-D)				Address P. O. Box 670, Hobbs, NM 88	Gulf Oil Corporation	
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JUN2 2 1979 OIL CONSERVATION COMM, HOBBS, N. M.

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H. T. MATTERN (NCT-D) NO. 16

- 1. Operator: Gulf Oil Corporation, P.O. Box 670, Hobbs, NM 88240 2. Lease, Well and Location: H. T. Mattern (NCT-D) No. 16, Unit E, 1650'FNL & 610'FWL, Section 7-22S-37E, Lea County, New Mexico 3. Producing Zones: Currently producing the Tubb Pool, which is to be commingled with the temporarily abandoned Drinkard Pool, if approved. Drinkard zone was temporarily abandoned on November 16, 1978. 4. Decline Curves: See attached sheets. 5. Bottom Hole Pressures: Both zones require artificial lift in order to be produced. Drinkard BHP 462 psi; Tubb BHP 672 psi. (Estimated from offset production.) 6. Fluid Characteristics: Tubb and Drinkard are presently being commingled in surface facilities on the H. T. Mattern (NCT-D) Lease. To date, there has been no evidence of fluid incompatibility. 7. Well History: Well was spudded 8-28-75 and drilled to a total depth of 6760'. Five and one-half inch production casing was set at 6760' with top of
 - cement at 2275'. Present plug back depth for the well is 6725'. Initial completion was in the Drinkard zone through perforations at 6510-12', 6533-35', 6563-65', 6596-98', 6623-25', 6646-48', 6668-70'. Casing was perforated in each zone with four (4) 1/2" JHPF. Well was stimulated with 3,200 gallons 15% HCl and fracture treated with 49,000 gallons gelled water containing 1-2# 20-40 SPG. Initial production from the Drinkard zone was 108 BOPD and 49 BWPD, flowing on 18/64" choke with a flowing tubing pressure of 200 psi. Approximately 14 days after completion, the well was acidized with 2,000 gallons 15% HCl and pumping equipment was installed on 10-17-79. Acidized on 2-13-76 with 5,000 gallons 15% HC1. Prior to abandoning Drinkard zone a production test shows 13 BOPD, 20 BWPD and 100 MCFGPD, pumping. In November 1978, a cast iron bridge plug was set at 6425', temporarily abandoning the Drinkard perforations. Tubb production on the subject lease was established by perforating the intervals 6212-16', 6270-74', and 6312-16' with two (2) JHPF. These perforations were then acidized with 900 gallons 15% HCl and fractured with 30,000 gallons of gelled water containing 38,250# 20-40 sand. Initial production test for the Tubb indicated the well pumped 8 BOPD, 14 BWPD and 23 MCFGPD.
- 8. Value of Commingled Fluids: Drinkard and Tubb production is being commingled in surface storage facilities on the subject lease per Administrative Order PLC-52, therefore, downhole commingling will not affect the price.

9. Current Production: See attached C-116.

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

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