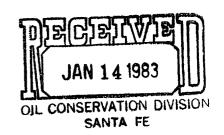
Morris R. Antweil

OIL OPERATOR
P. O. Box 2010
HOBBS, NEW MEXICO 88240



January 13, 1983

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Energy & Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

RE: Application to Downhole Commingle Morris R. Antweil No. 4 Herman Section 8-T20S-R38E Lea County, New Mexico

Gentlemen:

Morris R. Antweil respectfully requests Administrative Approval for an exception to Rule 303-A to permit the commingling downhole of the production from the Tubb and Blinebry oil pools in the above captioned well. This well is located at 1980' FSL and 660' FWL of Section 8, Township 20 South, Range 38 East, N.M.P.M. In support of this request, the following facts are presented:

1) The most recent tests on the respective zones are:

Tubb: 11-2-82 11 bbls oil, 4 bbls water and 27.8 MCF gas during 24 hour test. Perforations: 6429'-6437' (6 holes)

Blinebry: 1-4-83 15.4 bbls oil, 3.4 bbls water and 12.7 MCF gas during 24 hour test. Perforations: 5988'-6016½' (6 holes)

- 2) Both producing zones require artificial lift and were tested separately using a rod pumping installation. Currently, the Tubb section is isolated by means of a bridge plug and all production is from the Blinebry perforations.
- 3) Surface commingling of the produced fluids did not result in the formation of any precipitates. Analysis of the produced waters is as follows:

	Tubb	Blinebry
Resistivity at 74°F Specific Gravity pH Calcium Magnesium Chlorides Sulfates Bicarbonates	.095 1.072 4.9 9400 4320 61000 1750 340	.070 1.097 6.0 8000 2580 86000 1980 365
Soluble Iron	95	40

- 4) Neither zone produces more water than the combined oil limit of 40 bbls per day.
- 5) Commingling of the produced crudes does not result in a decrease in value with respect to the separate streams. The gravity of the Tubb crude averages 35.9° API at 60°F while the Blinebry oil averages 36.8° API at 60°F. Combination of these two oils at a ratio of 41.7% Tubb and 58.3% Blinebry results in a mixture of 36.4° API. Since all oil in the 36°-36.9° range is of the same value, the mixture is of greater value than the separate streams.
- 6) Ownership of the zones is common.
- 7) Commingling will not jeopardize the efficiency of any future secondary recovery operations. No secondary recovery operations are underway at the present.
- 8) A plat showing the well, proration unit and surrounding ownership is attached.
- 9) Copies of Division Form C-116 are attached showing results of 24 hour tests.
- 10) A resume of the completion and production history of the well is attached.
- 11) The estimated bottom hole pressures for the two zones are:
 - Tubb: 1044 psig. Estimated from fluid level while swabbing.
 Blinebry: 1090 psig. Estimated from fluid level.
- 12) The proposed allocation of production is as follows based on the above captioned 24 hour tests:

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	Oil	Gas	Water
Tubb	41.7%	68.6%	54.0%
Blinebry	58.3%	31.4%	46.0%

13) All operators in Section 8 and the offset operators in Section 7 have been furnished a copy of this application by certified mail. Herman J. Ledbetter is a participant in this well and has been notified as such. A distribution list is attached.

Morris R. Antweil, therefore, requests approval be given administratively to commingle Tubb and Blinebry production downhole.

Respectfully Submitted,

MORRIS R. ANTWEIL

Jerry Hillard

JH:pb

Attachments

Depco, Inc. 1000 Petroleum Building Denver, Colorado 80202

Getty Oil Company Two Midland National Bank Center Midland, Texas 79701

Cities Service Company Box 1919 Midland, Texas 79702

Amerada Hess Corporation P. O. Box 2040 Tulsa, Oklahoma 74102

Crown Central Petroleum Corporation 731 West Wadley Building K - Suite 200 Midland, Texas 79701

Tamarack Petroleum Company, Inc. P. O. Box 2046 Midland, Texas 79702

Bravo Energy, Inc. P. O. Box 1860 Hobbs, New Mexico 88240

#4 HERMAN COMPLETION HISTORY

8-12-82	Ran 226 jts. $5\frac{1}{2}$ " 15.5 & 17.0# J-55 casing and cemented at 7150' with 675 sx. TOC - 3230'.
8-26-82	Perforated Tubb interval with single jet shots at 6429', 6432', 6433', 6434', 6435' and 6437'. Set packer at 6370' on 2 3/8" tubing.
8-27-82	Acidized Tubb perfs with 2000 gals. 15% NE FE acid. Balled off. (Had rough tubing string which required replacement.)
9-08-82	Swab tested 1-1½ bbls fluid per hour. Water cut - 1-2%.
9-09-82	Acid fractured Tubb perfs with 3000 gals. gelled 2% KCl water pad, 4500 gals. 28% NE FE acid, and 2500 gals. gelled 2% KCl water overflush.
9-13-82	Released packer and pulled out of hole. Ran back in hole with tubing and tubing anchor.
9-14-82	Ran rods and pump. Setting pumping unit and engine.
9-18-82	Started pumping.
11-02-82	Tested 11 bbls oil, 4 bbls water and 27.8 MCF gas in 24 hour test.
11-03-82	Rigged up well service unit. Pulled rods and pump.
11-04-82	Pulled tubing. Perforated Blinebry interval with single jet shots at 5988', 5989½', 5993½', 5994½', 6015½' and 6016½'. Set retrievable bridge plug over Tubb perfs. Set packer on 2 3/8" tubing.
11-05-82	Acidized Blinebry perfs with 2000 gals. 15% NE FE acid.
11-08-82	Released packer and pulled tubing. Fracture treated down casing with 15,000 gals. gelled 2% KCl water and 13,500# 20-40 sand.
11-09-82	Flowed well down. Ran in hole with tubing, tubing anchor, tubing perfs and mud anchor. Swabbed 110 bbls water. Began to show oil cut.
11-10-82	Ran rods and pump. Started pumping.

MORRIS R. ANTWEIL NO. 4 HERMAN
DAILY PRODUCTION TUBB INTERVAL

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MORRIS R. ANTWEIL NO. 4 HERMAN DAILY PRODUCTION BLINEBRY INTERVAL

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No well will be assigned an allowable greater than the amount of oil produced on the official test.

increased allowables when authorized by the Commission. During gas-oil 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.

will be 0.60. Gas volumes must be reported in MCF measured at a pressure base of 15.025 pais and a temperature of 60° F. Specific gravity base

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 Oli Conservation Commission in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Agent (Tide)
January 11, 1983

(Date)

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Subject Well No. 4 Herman 1980' FSL & 660' FWL Section 8-T20S-R38E

MORRIS R. ANTWEIL

NADINE AREA LEA COUNTY, NEW MEXICO

Proration Unit 40 acres