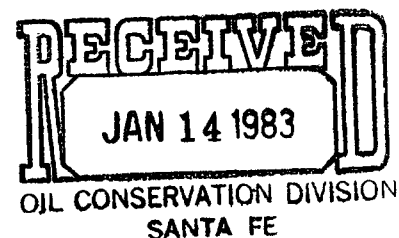


Morris R. Antweil
OIL OPERATOR
P. O. Box 2010
HOBBS, NEW MEXICO 88240



January 13, 1983

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	.095	.070
Specific Gravity	1.072	1.097
pH	4.9	6.0
Calcium	9400	8000
Magnesium	4320	2580
Chlorides	61000	86000
Sulfates	1750	1980
Bicarbonates	340	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:

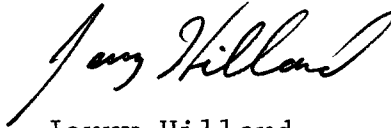
	Oil	Gas	Water
Tubb	41.7%	68.6%	54.0%
Blinebry	58.3%	31.4%	46.0%

- 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. 5½" 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 1-1¼ 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

Date	BOPD	BWPD	Date	BOPD	BWPD
Sept 19	40	--	Oct 15	20	4
20	76	12	16	28	4
21	16	4	17	20	4
22	12	4	18	12	4
23	--	24	19	12	4
24	20	8	20	12	4
25	12	4	21	12	4
26	8	4	22	12	4
27	24	4	23	12	4
28	12	4	24	12	4
29	20	4	25	12	4
30	13	--	26	12	4
Oct 1	12	4	27	24	4
2	16	4	28	12	4
3	24	4	29	12	4
4	12	4	30	16	4
5	12	4	31	44	--
6	12	4	Nov 1	--	--
7	12	4	2	8	4
8	12	4	3	11	4
9	16	4	4	4	
10	12	4			
11	20	--			
12	16	4			
13	20	4			
14	12	4			

Begin operations
 to test Blinebry.

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

Date	BOPD	BWPD	Date	BOPD	BWPD
Nov 11	--	137	Dec 8	--	--
12	12	43	9	30	5
13	4	24	10	12	5
14	24	15	11	30	5
15	30	10	12	15	7
16	25	9	13	29	5
17	26	19	14	28	5
18	34	10	15	25	6
19	35	10	16	25	5
20	30	9	17	Pump Sanded Up	
21	14	3	18	27	
22	18	5	19	Down	
23	37	9	20	Down	
24	30	10	21	Down	
25	21	10	22	103	
26	36	--	23	34	21
27	42	10	24	25	--
28	40	5	25	17	--
29	20	5	26	23	10
30	35	4	27	24	5
Dec 1	32	4	28	14	--
2	30	4	29	21	5
3	20	4	30	15	3
4	32	4	31	31	--
5	28	4	Jan 1	14	--
6	24	4	2	15	--
7	41	5	3	12	--
			4	Test. 15.4 BO, 3.4 BW, 12.7 MCF gas. Production combined with Blinebry production from Herman wells #1, 2 & 3.	
			9	10.8	4.5
			10	10.8	4.5

(Date)

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-116
Revised 1-1-65

Operator MORRIS R. ANTWEIL		Pool Undesignated Blinebry		County Lea											
Address P. O. Box 2010		Hobbs, New Mexico 88240		TYPE OF TEST - (X) <input type="checkbox"/> Scheduled <input checked="" type="checkbox"/> Special											
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	SPELTS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL
		U	S	T	R							WATER BBL.S.	GRAV. OIL BBL.S.	GAS M.C.F.	
Herman	4	L	8	20S	38E	1-4-83	P	--	--		24	3.4	36.815.4	12.7	825

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

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 increased allowables when authorized by the Commission.

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 Oil 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.

RECEIVED

JAN 13 1983

OCD

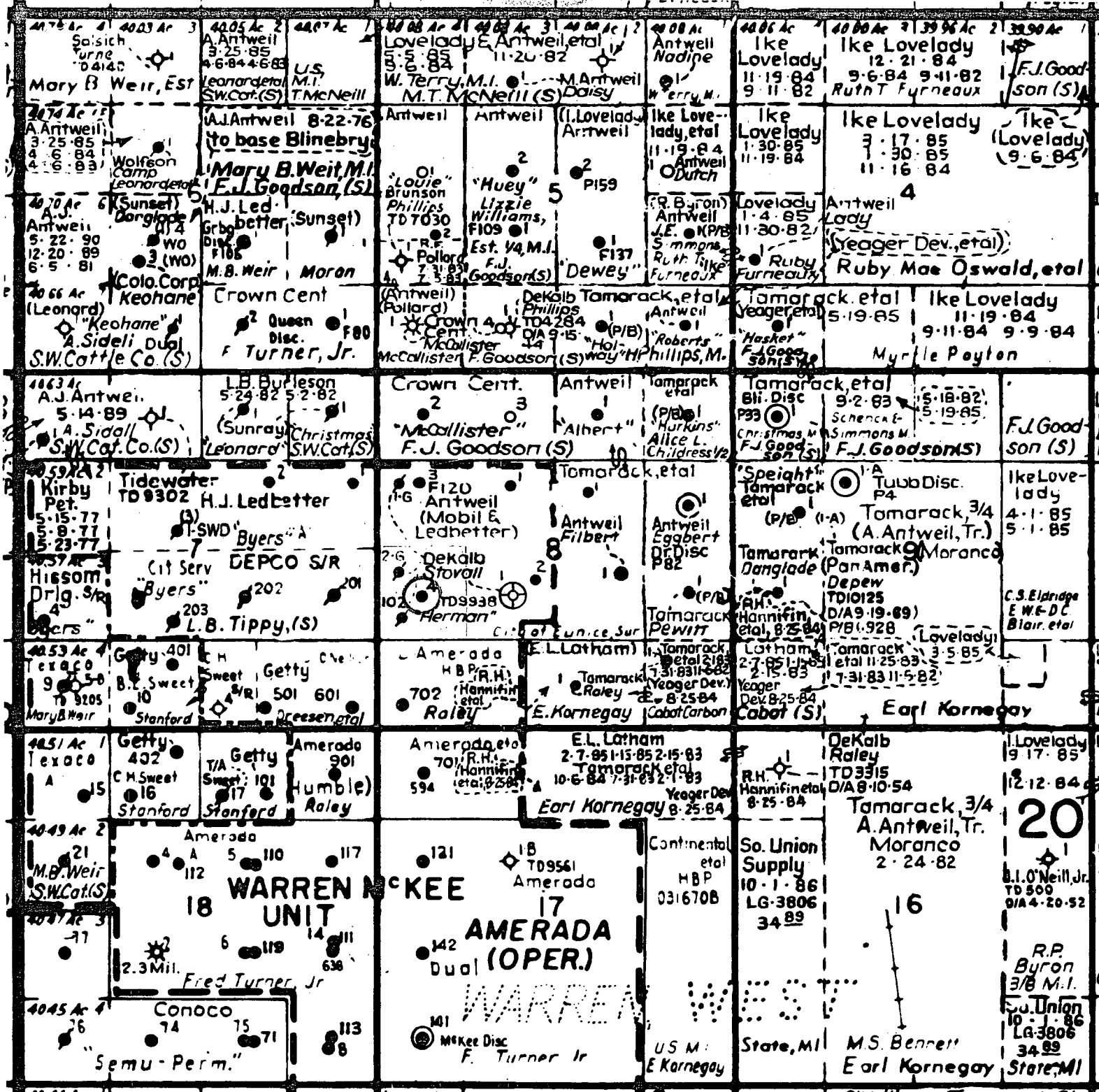
[Signature]
(Signature)

Agent

(Title)

January 11, 1983

(Date)



MORRIS R. ANTWEIL

NADINE AREA
LEA COUNTY, NEW MEXICO