

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

February 28, 1984

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

RE: Application to Downhole Commingle  
Morris R. Antweil  
No. 1 Eggbert  
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 West Nadine Blinebry and the West Nadine Drinkard oil pools in the above captioned well. This well is located at 1980' from the north line and 660' from the east line of Section 8-T20S-R38E, N.M.P.M. In support of this request, the following facts are presented:

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

Drinkard: 8-18-83	16.3 bbls oil, 6 bbls water and 218 MCF gas during 24 hour test. Perforations: 6914'-6968' (18 holes)
Blinebry: 2-16-84	19.2 bbls oil, 6 bbls water and 64.6 MCF gas during 24 hour test. Perforations: 6086'-6393' (21 holes)
- 2) The Drinkard section is currently not producing, being isolated by a bridge plug at 6595'. All production at the present is from the Blinebry perforations.
- 3) Both producing zones require artificial lift and were tested separately using a rod pumping installation.
- 4) Surface commingling of the produced fluids did not result

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in the formation of any precipitates. Analysis of the produced waters is as follows:

	Blinebry	Drinkard
Resistivity	.072 @ 74°F	.063 @ 74°F
Specific Gravity	1.092	1.109
pH	6.8	6.8
Calcium	8500	8400
Magnesium	960	1680
Chlorides	80000	97000
Sulfates	2300	2400
Bicarbonates	120	95
Soluble Iron	nil	nil

5) Neither zone produces more water than the combined oil limit of 40 bbls per day.

6) Commingling of the produced crudes does not result in a decrease in value with respect to the separate streams. The Blinebry crude is averaging 35.3° API at 60°F while the Drinkard crude averages 32.9° API at 60°F. Combination of these two oils at a ratio of 54.1% Blinebry and 45.9% Drinkard results in a mixture of 34.2° API. This oil would at present prices have a value of \$29.88/bbl while the separate streams would have a price of \$29.87/bbl when weighted for the mixing ratio above.

7) Ownership of the zones is common and is all private ownership.

8) Commingling will not jeopardize the efficiency of any future secondary recovery operations. No such operations are underway or planned at the present.

9) A plat showing the well, proration unit and surrounding ownership is attached.

10) Copies of Division Form C-116 are attached showing results of 24 hour tests.

11) A resume of the completion and production history of the well is attached.

12) The estimated bottom hole pressures for the two zones are:

Drinkard 1680 psi Estimated from swabbing fluid levels.  
Blinebry 2100 psi Estimated from swabbing fluid levels.

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13) The proposed allocation of production is as follows based on the above captioned 24 hour tests:

	Oil	Gas	Water
Blinebry	54.1%	22.9%	50%
Drinkard	45.9%	77.1%	50%

14) All operators in Section 8 and the offset operator in Section 9 have been furnished a copy of this application by certified mail. A distribution list is included.

Morris R. Antweil, therefore, requests approval be given administratively to commingle the Blinebry and Drinkard production from this well downhole.

Respectfully submitted,

MORRIS R. ANTWEIL



Jerry Hillard

JH:prb

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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

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MORRIS R. ANTWEIL  
NO. 1 EGGBERT  
COMPLETION HISTORY

4-20-81 Perforated Drinkard interval 6914'-6968' (18 holes).  
4-21-81 Acidized with 5000 gals. 15% acid.  
4-22-81 Swabbed 1.5 BO & .25 BW per hour.  
4-23-81 Fractured with 25,000 gals. gelled water and 20,000 pounds sand.  
4-27-81 Swabbed .5 BO & 1.5 BW per hour.  
5-01-81 Set pumping unit. Started pumping.  
5-11-81 Pumped 10 BO & 8 BWPD.  
6-03-81 Treated with 18,000 gals. gelled water and 15,000 gals. 28% acid.  
7-07-81 Potential tested 82.08 BO, 8 BW & 120 MCF gas per day. GOR 1462.

	Monthly Production 81		Drinkard Interval 82		83	
	Oil	Gas	Oil	Gas	Oil	Gas
Jan			1039	5006	605	5329
Feb			994	5038	533	5219
Mar			1042	5761	576	5763
Apr			952	5753	511	5263
May	295		927	6438	547	6266
June	910		910	7059	492	6481
July	1318	571	867	7035	475	6957
Aug	972	1628	849	7016	504	3697
Sept	927	1410	769	6630		
Oct	1482	3765	746	6487		
Nov	1323	4104	552	6116		
Dec	1282	4926	625	5759		

8-16-83 Perforated Blinebry interval 6086'-6393' (21 holes).  
8-17-83 Acidized with 5000 gals. 15% acid.  
8-18-83 Swabbed 1 bbl fluid with 5% oil cut per hour.  
8-19-83 Fracture treated in stages with packer and bridge plug: 6362½'-6393' 20,000 gals. gelled water and 20,300# sand, 6086'-6199½' 33,000 gals. & 37,300# sand staged with ball sealers.  
8-23-83 Started pump testing all perfs.  
9-07-83 Pumped 37 BO & 36 BW.  
9-10-84 Started pumping lower zone 6362½'-6393'.  
9-19-83 Pumped 12.74 BO & 3 BW.  
9-21-83 Started pumping middle zone 6176'-6199½'.  
9-29-83 Pumped 25.5 BO & 18 BW.  
9-30-83 Tested for communication between perfs 6176'-6199½' and 6086'-6105'. Test was positive.  
10-04-83 Started pumping all perforations.  
10-15-83 Potential tested 30.18 BO, 18 BW and 106.50 MCF gas per day. GOR 3529.

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 COMPLETION HISTORY  
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Monthly Production		Blinebry Interval
	83	
	Oil	Gas
Sept	842	2389
Oct	818	2694
Nov	630	2029
Dec	603	1882
	84	
	Oil	Gas
Jan	512	2124

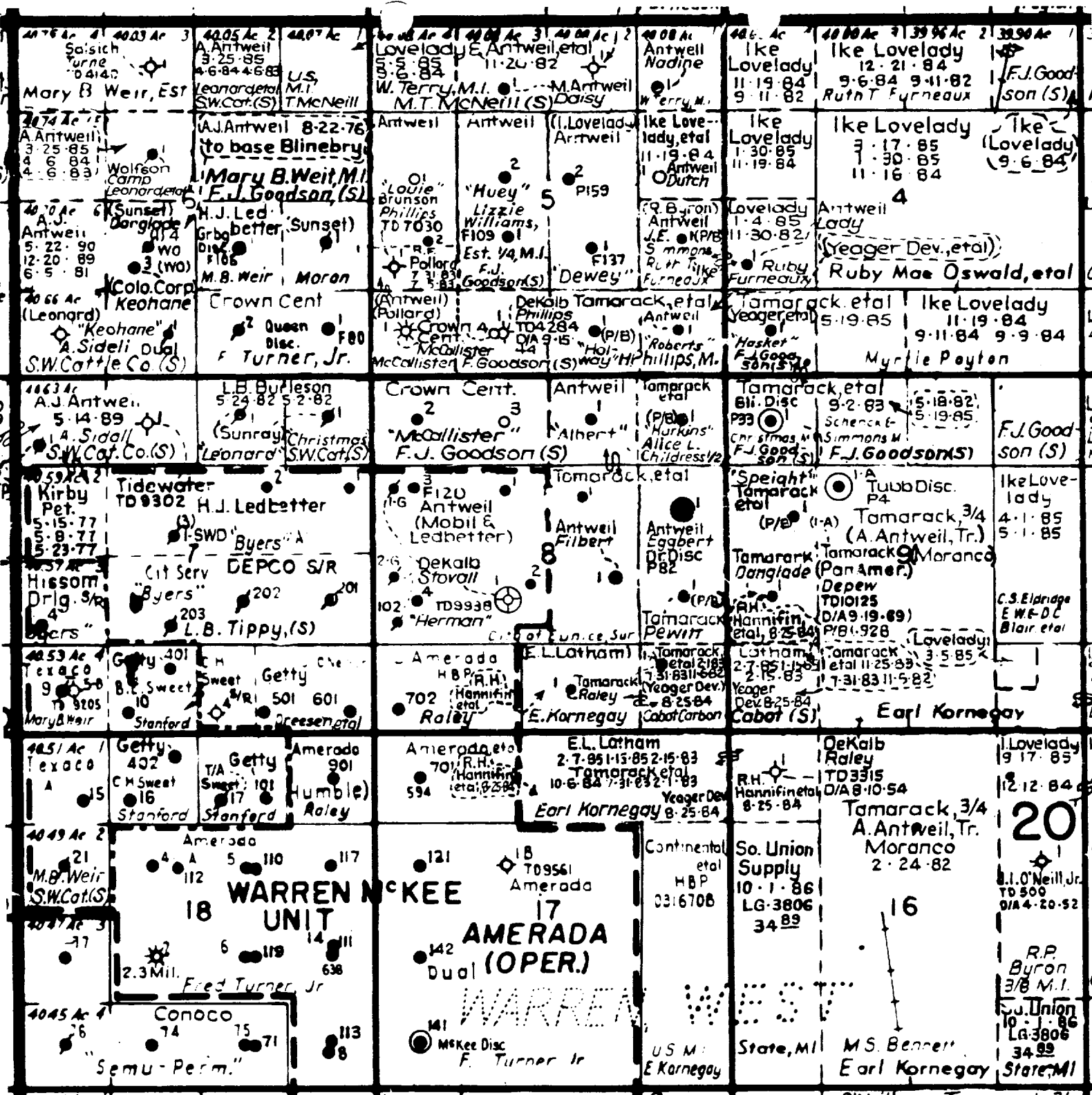
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Subject Well  
No. 1 Eggbert  
1980' FNL & 660' FEL  
Section 8-T20S-R38E

MORRIS R. ANTWEIL

NADINE AREA  
LEA COUNTY, NEW MEXICO

Proration Unit  
40 Acres



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# GAS - OIL RATIO TESTS

Revised 1-1-65

Operator <b>MORRIS R. ANTWEIL</b>		Pool <b>West Nadine Drinkard</b>				County <b>Lea</b>									
Address <b>P. O. Box 2010 Hobbs, New Mexico 88240</b>		Type of Test - (X) <input checked="" type="checkbox"/> TEST		Scheduled <input type="checkbox"/>		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>									
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	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 BBLs.	GRAV. OIL BBLs.	OIL BBLs.		GAS M.C.F.
Eggbert	1	H	8	20S	38E	8-13-83	P	--	60	24	6	31.1	16.3	218	13374
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>RECEIVED</b>  <b>AUG 16 1983</b> </div>															

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.

Agent

(Signature)

August 16, 1983

(Date)

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Operator <b>MORRIS R. ANTWEIL</b>		Pool <b>West Nadine Blinbry</b>		County <b>Lea</b>												
Address <b>P. O. Box 2010 Hobbs, NM 88240</b>		TYPE OF TEST - (X) <input checked="" type="checkbox"/> TEST <input type="checkbox"/> SCHEDULED		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>												
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATE	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.	OIL BBL'S.	GAS M.C.F.	
Eggbert	1	H	8	20S	38E	16Feb84	P	--	--	29	24	6	36.2	19.2	64.6	3365

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ANALYSIS OFFICE

No well will be assigned an allowable greater than the amount of oil produced on the official test.  
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
(Signature)

Agent

(Title)

24 Feb 84

(Date)

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