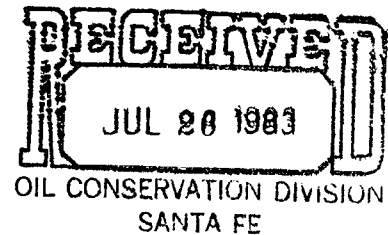


Morris R. Antweil
OIL OPERATOR
P. O. Box 2010
HOBBS, NEW MEXICO 88240



July 25, 1983

Energy and Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, NM 87501

RE: Application to Downhole Commingle
Morris R. Antweil
No. 1 Federal 7
Section 7-T21S-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 Drinkard and Blinebry oil and gas pools in the above captioned well. This well is located at 660' FNL and 990' FWL of Section 7, Township 21 South, Range 38 East, N.M.P.M. In support of this request the following facts are presented:

- 1) The most recent tests or average production for the respective zones are:

Blinebry: 7-19-83 21.0 bbls. oil, 59.7 bbls. water and 56 MCF gas during 24 hour test.
Perforations: 6074-1/2' - 6131' (20 holes)

Drinkard: 5 bbls. oil, 16.5 bbls. water per day and gas TSTM average from division form C-115 (Operators Monthly Report) for month of March, 1983.
Perforations: 6597' - 7015' (36 holes)
- 2) Both zones require artificial lift and were tested separately using a rod pumping installation.
- 3) Currently, all production is coming from the Blinebry perforations and the Drinkard is isolated by a bridge plug.

- 4) Surface commingling of the produced fluids from these zones did not result in the formation of any precipitates. Analysis of these waters is as follows:

	<u>Blinebry</u>	<u>Drinkard</u>
Resistivity	.061 @ 74°F	.056 @ 74°F
Specific Gravity	1.121	1.143
pH	6.1	6.5
Calcium	7600	9600
Magnesium	2760	4260
Chlorides	110000	132000
Sulfates	2250	1650
Bicarbonates	75	95
Soluble Iron	nil	nil
Sodium	58523	67390
Total Dissolved Solids	181208	214995

- 5) The combined oil limit is 50 bbls. per day as determined in Section C of Rule 303. The Blinebry water production as tested is 59.7 bbls. per day while the Drinkard averaged 16.5 bbls. per day. Average water production for the last two weeks during days in which no down time has been experienced is 53.9 bbls. per day from the Blinebry interval.
- 6) Commingling of the produced crudes does not result in a decrease in value with respect to the separate streams. The gravity of the Drinkard crude averaged 36.3°API at 60°F while the Blinebry oil averages 37.1°API @ 60°F. Combination of these two oils at a ratio of 80.8% Blinebry and 19.2% Drinkard results in a mixture of 37.0° API. Since all oil in the 37° - 37.9° range is of equal value, no decrease in value of the commingled streams is realized.
- 7) Ownership of the zones is common.
- 8) Co-mingling will not jeopardize the efficiency of any future secondary recovery operations. No secondary recovery operations are underway at the present.
- 9) A plat showing the well, proration unit and the surrounding ownership is attached.
- 10) A copy of Division Form C-116 is attached showing the results of the 24-hour test of the Blinebry. Production histories of both zones are also attached.
- 11) A resume of the completion history is attached.
- 12) The estimated bottom hole pressures for the two zones are:
- Drinkard: 926 psig Estimated from fluid level
- Blinebry: 859 psig Estimated from fluid level while swabbing

- 13) The proposed allocation of production is as follows:

	<u>Oil</u>	<u>Gas</u>	<u>Water</u>
Drinkard	19.2%	0%	21.7%
Blinebry	80.8%	100%	78.3%

- 14) All operators in Section 7 and the offset operators in Sections 6-T21S-R38E, 1-T21S-R37E and 11-T21S-R37E have been furnished a copy of this application by certified mail. The Bureau of Land Management has also been notified by certified mail.

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

Respectfully Submitted,

MORRIS R. ANTWEIL



Jerry Hillard

JH:dkt

Attachments

MORRIS R. ANTWEIL
NO. 1 FEDERAL 7
DAILY PRODUCTION

BLINEBRY INTERVAL

<u>DATE</u>	<u>BOPD</u>	<u>BWPD</u>
April 26	16.50	51
27	16.50	18
28	16.50	18
29	5.50	0
30	5.50	6
May 1	11.00	18
2	5.50	18
3	0	0
4	2.75	15
5	5.50	6
6	2.75	6
7	0	6
8	2.75	3
9	5.50	6
10	2.75	6
11	w/o	
12	w/o	
13	w/o	
14	0	21
15	0	75
16	0	102
17	0	88
18	0	81
19	2.75	89
20	16.50	72
21	19.25	72
22	19.25	72
23	19.25	72
24	24.95	70
25	22.00	70
26	13.75	42
27	22.00	68
28	22.00	64
29	22.00	72
30	16.50	64
31	22.00	60
June 1	19.25	72
2	24.75	51
3	19.25	51
4	19.25	75
5	19.25	69
6	16.50	61
7	19.25	57
8	19.25	50
9	16.50	52
10	24.75	75
11	19.25	69
12	22.00	52
13	19.25	63
14	19.25	63
15	22.00	63

MORRIS R. ANTWEIL
NO. 1 FEDERAL 7
DAILY PRODUCTION

BLINEBRY INTERVAL CONT'D

	<u>DATE</u>	<u>BOPD</u>	<u>BWPD</u>
June	16	8.25	30
	17	22.00	52
	18	22.00	69
	19	22.00	52
	20	22.00	63
	21	19.25	52
	22	16.50	0
	23	19.25	63
	24	27.50	63
	25	19.25	63
	26	48.37	72
	27	22.00	75
	28	19.25	63
	29	8.25	33
	30	8.25	63
July	1	19.25	48
	2	19.25	60
	3	47.19	66
	4	5.50	63
	5	19.25	63
	6	19.25	52
	7	16.81	52
	8	19.25	63
	9	13.95	52
	10	13.94	52
	11	13.97	52
	12	16.76	52
	13	13.96	42
	14	13.94	54
	15	5.57	12
	16	16.73	52
	17	16.72	52
	18	16.74	52
	19	16.74	63
	20	16.74	52
	21	16.74	63

MORRIS R. ANTWEIL
NO. 1 FEDERAL 7
DAILY PRODUCTION

DRINKARD INTERVAL

<u>DATE</u>	<u>BOPD</u>	<u>BWPD</u>
February 2	1.27	-
3	8.35	35
4	8.35	20
5	2.78	12
6	5.63	12
7	16.59	18
8	8.33	19
9	19.43	15
10	8.25	18
11	1.38	6
12	4.15	6
13	1.38	6
14	4.15	21
15	0	27
16	2.17	18
17	5.53	18
18	5.53	18
19	5.53	18
20	3.33	0
21	7.74	18
22	5.53	21
23	5.53	21
24	5.53	15
25	5.59	18
26	2.76	6
27	3.46	18
28	5.59	18
March 1	1.46	18
2	2.52	18
3	5.50	18
4	5.50	18
5	5.50	27
6	5.50	27
7	5.70	27
8	5.50	18
9	0	0
10	7.04	20
11	5.94	18
12	8.62	18
13	5.52	18
14	5.42	0
15	5.50	0
16	5.45	18
17	5.55	27
18	5.50	0
19	5.50	18
20	5.50	18
21	2.75	18
22	0	0
23	0	0
24	0	0

MORRIS R. ANTWEIL
NO. 1 FEDERAL 7
DAILY PRODUCTION

DRINKARD INTERVAL CONT'D

<u>DATE</u>	<u>BOPD</u>	<u>BWPD</u>
March 25	0	36
26	2.75	33
27	5.50	6
28	5.50	18
29	5.50	27
30	5.50	30
31	5.50	6
April 1	5.13	18
2	4.12	18
3	0	25
4	2.75	0
5	5.56	18
6	2.69	18
7	5.50	18
8	5.50	18
9	5.50	18
10	2.75	18
11	8.25	0
12	5.50	6
13	5.50	18
14	2.75	15
15	5.50	18
16	2.75	18
17	2.75	18
18	5.50	18

MORRIS R. ANTWEIL
NO. 1 FEDERAL 7
COMPLETION HISTORY

9/22/81 Ran 187 joints 4-1/2" 11.0 + 10.5 # K-55 casing and cemented at 7507' in two stages with DV tool at 4007'.

11/11/81 Perforated Abo section 7419' to 7151' with 18 holes.

11/12/81 Acidized with 4000 gals 15% acid. Swab tested 2 bbls fluid per hour with 5-10% oil cut.

11/18/81 Acidized with 8000 gals 20.2% acid.

11/23/81 Put on pump.

12/9/81 Tested 5 B0, 5 BW and 3 MCF.

12/14/81 Set bridge plug at 7105'. Perforated Drinkard 7015' to 6597' with 36 holes.

12/15/81 Acidized with 2000 gals 15% acid.

? Fractured with 26000 gals water and 24000# sand.

12/30/81 Potential tested Drinkard 68 B0, 17 BW and 146.2 MCF gas per day.

2/1/83 Morris R. Antweil purchased well from Laguna Petroleum Co. and assumed operations.

4/18/83 Set bridge plug at 6364' and capped with 35' cement.

4/19/83 Perforated Blinebry interval from 6074-1/2' to 6131' with 20 holes.

4/20/83 Acidized with 5000 gals 15% acid.

5/4/83 Tested 5.2 B0, 13.3 BW and 7.4 MCF gas.

5/11/83 Fractured with 40000 gals water and 57000\$ 20/40 sand in two stages.

6/3/83 Potential tested Blinebry pumping 22.7 B0, 68.2 BW and 20.4 MCF gas per day.

Laguna Petroleum Company
P. O. Drawer 2758
Midland, TX 79702

Marathon Oil Company
P. O. Box 2409
Hobbs, NM 88240

Elliott Oil Company
P. O. Box 1355
Roswell, NM 88201

Conoco, Inc.
P. O. Box 460
Hobbs, NM 88240

Shell Oil Company
600 N. Marionfield, Suite 310
Midland, TX 79701

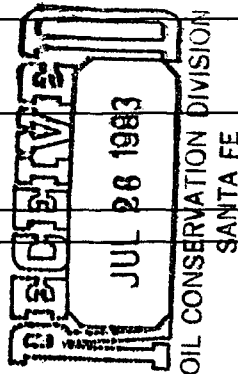
Petro-Lewis
607 Austin
Levelland, TX 79336

Bureau of Land Management
Minerals Division
P. O. Box 1397
Roswell, NM 88201

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator Morris R. Antweil		Pool Blinebry Oil and Gas		County Lea											
Address P. O. Box 2010, Hobbs, NM 88240		TYPE OF TEST - (X) ☐ Scheduled ☒ Completion		Special ☐											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKES 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		OIL BBLs.	GAS M.C.F.
Federal 7	1	D	7	21S	38E	7-19-83	P	-	23	24	59.7	36.3	21.0	56	2667



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.

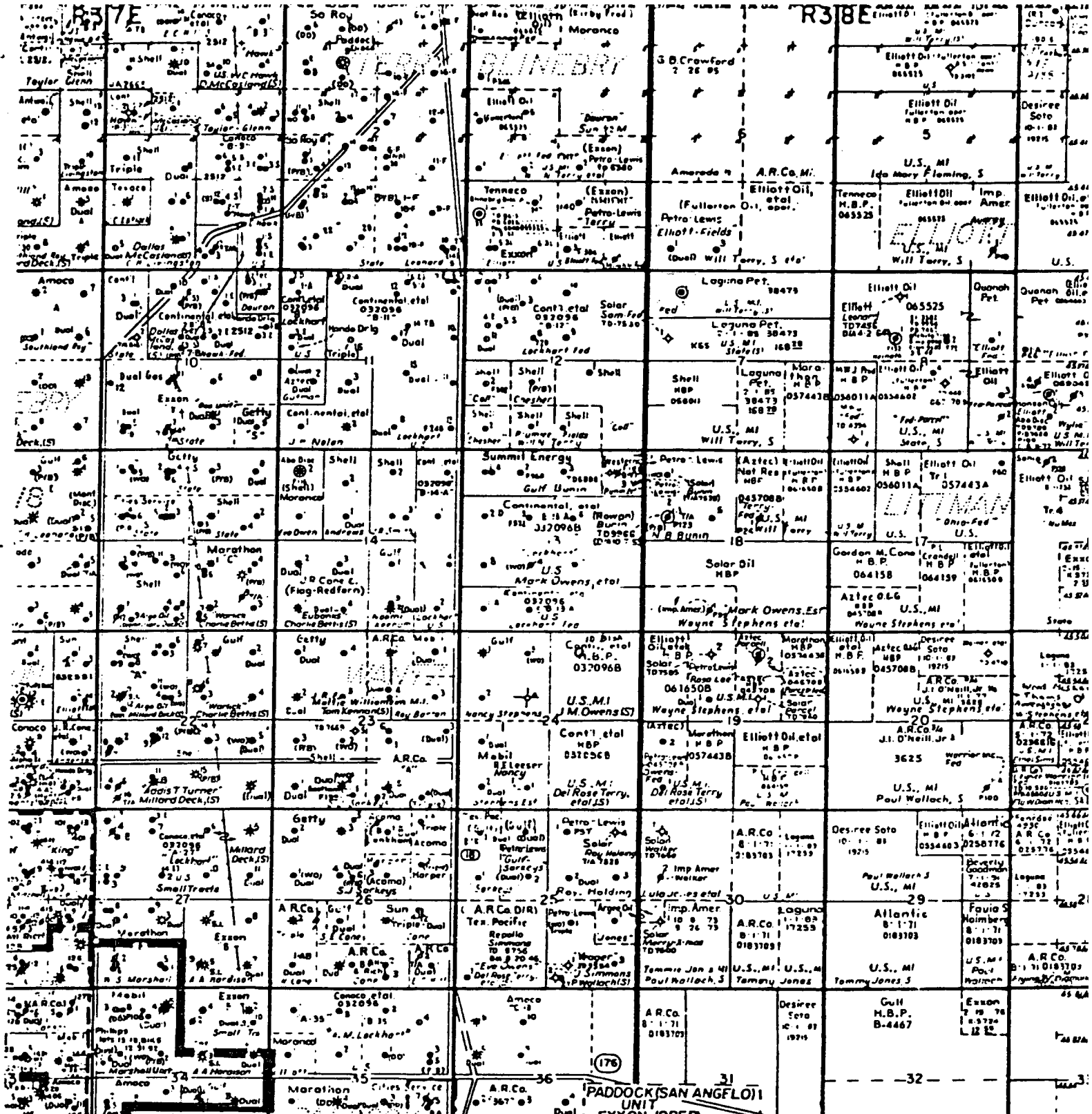
[Signature]
(Signature)

Agent

(Title)

July 22, 1983

(Date)



SUBJECT WELL

#1 Federal "7"
660'FNL & 990'FWL
Section 7-T21S-R38E
Lea County, New Mexico

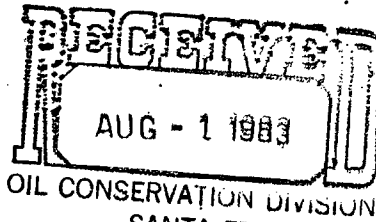
Proration Unit
40 acres

MORRIS R. ANTWEIL

DRINKARD AND BLINEBRY POOLS

OIL CONSERVATION DIVISION
DISTRICT 1

FILE DHC-416



OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

DATE July 28, 1983

RE: Proposed MC _____
Proposed DHC X _____
Proposed NSL _____
Proposed NSP _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

I have examined the application for the:

Morris R. Antweil	Federal "7"	No. 1-D	7-21-38
Operator	Lease and Well No.	Unit, S - T - R	

and my recommendations are as follows:

O.K.-----J.S.

Yours very truly,

A handwritten signature in cursive script, appearing to read "Jerry S. Antweil", written over a horizontal line.

/mc