

**ENSERCH
EXPLORATION** INC

ClayDesta National Bank Bldg.
Suite 5250
6 Desta Drive
Midland, Texas 79705
915-682-9756

January 9, 1990

Leonard Kersh
District Production Manager
Dane Hendley
District Petroleum Engineer
George Faigle
District Development Geologist
Sammy Reed
Production Superintendent
West Texas/Rocky Mountain District
Production Division

New Mexico Department of
Energy & Minerals
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88241-1980

Re: Application for Downhole
Commingling
Enserch Exploration, Inc.
Lambirth No. 7
South Peterson Penn Field
South Peterson Fusselman Field
Roosevelt County, New Mexico

Gentlemen:

Enserch Exploration, Inc., managing general partner of EP Operating Co. requests authority for downhole commingling of production from the Peterson, South (Penn) Field and the Peterson, South (Fusselman) Field in the above referenced well located in Roosevelt County, New Mexico.

In accordance with Rule 303-A of the Oil Conservation Division Rules and Regulations, information necessary upon application of a permit for downhole commingling of two oil zones is hereby submitted.

Sincerely,


Wm. Dane Hendley

TRR:

Attachments

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

- a. Operator: EP Operating Company
ClayDesta National Bank Bldg.
Suite 5250
6 Desta Drive
Midland, Texas 79705
- b. Lease Name: Lambirth
Well Number: 7
Well Location: Unit Letter - P
Section 30, T-5-S, R-33-E
660' FEL, 510' FSL
Roosevelt County, New Mexico
- Pools to be Commingled: South Peterson Penn Field
South Peterson Fusselman Field

- c. Plat Attached as Exhibit No. 1.
- d. Form C-116 is attached for the South Peterson Penn Field Pool is attached as Exhibit No. 2.

Prior to abandonment, the South Peterson Fusselman Field Pool completion was producing 7 STB of oil, 11 MCF of gas and 2 BW per day.

- e. A production decline curve including both zones is attached as Exhibit No. 3.

The Lambirth No. 7 was spudded on April 2, 1979, and was drilled to a total depth of 7882 feet. The well was perforated in the Fusselman from 7826 feet to 7829.5 feet and acidized. The well was completed an oil well on June 6, 1979, and potentialized for 117 BO, 73 BW and 138 MCFG. When temporarily abandoned, the cumulative production from the Fusselman was 103,800 BO and 91,101 MCFG. On March 13, 1985, a recompletion was initiated to complete up-hole in the Penn Formation. A retrievable bridge plug was set at 7800 feet. The perforations were from 7682 feet to 7631 feet and from 7709 feet to 7718 feet. The intervals were then acidized with 5,000 gallons of acid and the well was completed on March 18, 1985. The initial potential performed on March 19, 1985, indicated production of 144 BO, 72 BW and 1,012 MCFG on an 18/64" choke with 950 psi flowing tubing pressure.

- f. Both zones require artificial lift. The original reservoir pressure of the South Peterson Penn Pool was 2186 psi as taken from a build-up performed in April of 1985. The reservoir pressure of the South Peterson Fusselman Pool was 4022 psi as of June of 1979.

- g. South Peterson Penn Pool - 49.5 API
South Peterson Fusselman Pool - 48.3 API

h.	Estimated production from the Penn zone:	2 BOPD
	Estimated production from the Fusselman zone:	<u>6 BOPD</u>
	Sum of Individual Streams:	8 BOPD

According to Order No. R-6882 dated February 1, 1982, commingled production from zones with the lowermost pool existing between 7000 feet and 7999 feet may not exceed 50 BOPD.

i.	Penn production	2 BOPD	11 MCFGPD *
	Fusselman production	<u>6 BOPD</u>	<u>48 MCFGPD</u> **
		8 BOPD	59 MCFGPD

Oil production	- 25% Penn and 75% Fusselman
Gas production	- 19% Penn and 81% Fusselman

* - Penn production was estimated from the production during the month of October, 1989.

** - Fusselman production was estimated from currently producing wells and their GOR.

j. The offset operator has been notified and the waiver letter is attached as Exhibit No. 4.

T D195

(Amoco)
(Peterson)

TD7920

TD8098

TD 7959

25

PHILLIPS

30

29

T/A 7852

ENERGY RES

AMOCO

1-B Peterson
TD 7877

E.P. OPER.

PHILLIPS

6-A

E.P. OPER.

PHILLIPS

E.P. OPER.

PHILLIPS
1-H Peterson
TD8000

36

E.P. OPER.

PHILLIPS

31

32

10

PHILLIPS

E.P. OPER.

E.P. OPER.
2-Rader
TD8000

PHILLIPS
1 Lambirth

2-A

3

PETERSON

Phillips
Goldston

12

PHILLIPS
1-A

E.P. OPER.
1-Rader
TD7910

Goldston
Lambirth-St.
TD8927

Enserch
Lambirth

3-A

4 Lambirth

TD4020

TD7950 TD7948

TD8000



Ener Res. Grp.
Bledsoe
Ener. Res. Grp.
Bledsoe

TD7824

EXHIBIT NO. 1

**ENSERCH
EXPLORATION INC.**
WEST TEXAS AREA

SOUTH PETERSON FIELD
Roosevelt County, New Mexico

BASE MAP

SCALE: 1"=2000'
CONTOUR INTERVAL:

DATE: 1/90
GEOLOGY:

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-1116
Revised 1-1-65

EXHIBIT NO. 2

Operator		Pool		County										
EP Operating Company		Peterson Penn, South		Roosevelt										
Address		TYPE OF TEST - (X)		Completion										
6 Desta Drive, Suite 5250, Midland, TX 79705-5510		Scheduled <input checked="" type="checkbox"/> Special <input type="checkbox"/>												
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL	
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.
Lambirth	3	G	31	5S	33E	F 16/64	50	2	24	0	49.5	1	19	19000/1
Lambirth	4	O	31	5S	33E	P ---	19	6	24	12	49.5	6	153	25500/1
Lambirth	7	P	30	5S	33E	P ---	28	3	24	0	49.5	2	16	8000/1
Lambirth	8	L	30	5S	33E	P ---	22	1	24	4	49.0	1	16	16000/1
Lambirth	12	K	31	5S	33E	Well shut-in.								

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) S. D. Reed
Production Superintendent

(Title)
September 5, 1989

EXHIBIT NO. 3

LAMBIRTH, O. D. # 7 / 014624

FIELD: PETERSON, SOUTH
OPERATOR: EP OPERATING COMPANY
ROOSEVELT COUNTY, NEW MEXICO
CUM= 111563 BBL
CUM= 111307 MCF

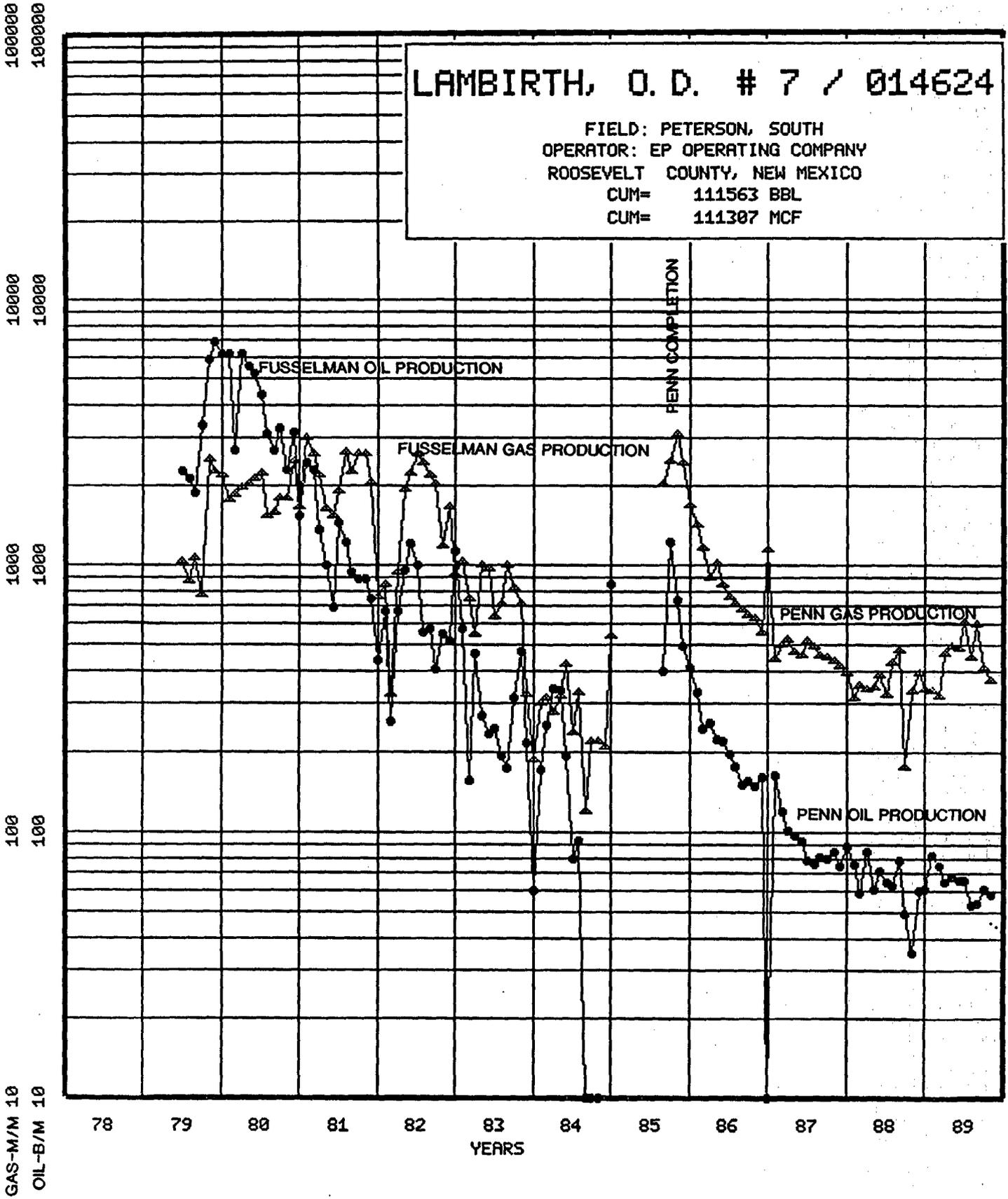


EXHIBIT NO. 4

Received

**ENSERCH
EXPLORATION** INC

OCT 30 1989

ClayDesta National Bank Bldg.
Suite 5250
6 Desta Drive
Midland, Texas 79705
915-682-9756

P.B.R. Regulatory Section

Leonard Kersh
District Production Manager
Dane Hendley
District Petroleum Engineer
George Faigle
District Development Geologist
Sammy Reed
Production Superintendent
West Texas/Rocky Mountain District
Production Division

October 27, 1989

Phillips Petroleum Company
4001 Penbrook
Odessa, Texas 79762

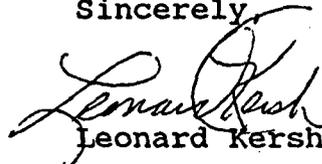
Re: Exception to New Mexico Rule
303-A (Downhole Commingling)
EP Operating Company
Lambirth No. 7
Peterson, South Field
Roosevelt County, New Mexico

Gentlemen:

EP Operating Company proposes to commingle downhole within the wellbore of the Lambirth No. 7 Well production from the South Peterson (Pennsylvanian) Field and the South Peterson (Fusselman) Field. If, as an offset operator, you have no objection to the granting of this exception provided for under the provisions of New Mexico Rule 303-C and hereby waive objection and notice of hearing on this application, please execute two (2) copies of this waiver and return them to the above address.

Please advise if there are questions or additional information is required for this purpose.

Sincerely,


Leonard Kersh

TRR:
Attachment

Name: David A. Brown

Title: Director, Reservoir Engineering

Date: November 7, 1989



STATE OF NEW MEXICO OIL CONSERVATION DIVISION
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
HOBBBS DISTRICT OFFICE 90 JAN 16 AM 10 37

1-12-90

GARREY CARRUTHERS
GOVERNOR

POST OFFICE BOX 1980
HOBBBS, NEW MEXICO 88241-1980
(505) 393-6161

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

RE: Proposed:

- MC _____
- DHC _____
- NSL _____
- NSP _____
- SWD _____
- WFX _____
- PMX _____

Gentlemen:

I have examined the application for the:

<i>E</i> Operating Co.	<i>Lambirth #7-P</i>	<i>30-5-33</i>
Operator	Lease & Well No. Unit	S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed