STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

3-1-94

BRUCE KING
GOVERNOR

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

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

DHC-755

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

Gentlemen:

I have examined the application for the:

EP Operating LP | Lambirth | #3-G | 31-5S-33E
Operator | Lease & Well No. | Unit | S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed

ENSERCH EXPLORATION INC

ClayDesta Center
6 Desta Drive, Suite 5250
Midland, Texas 79705-5510
Phone: 915-682-9756
Fax #: 915-687-4109

Brian Sherran
~~Leonard Kersh~~
District Production Manager
West Texas/Rocky Mountain District
Production & Engineering Division
Mark Burkett
District Petroleum Engineer
Sammy Reed
Production Superintendent

February 25, 1994

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

Re: Application for Downhole Commingling
E P Operating Limited Partnership
Lambirth No. 3
Peterson, South (Pennsylvanian) Field
Peterson, South (Fusselman) Field
Roosevelt County, New Mexico

Gentlemen:

E P Operating Limited Partnership requests authority for downhole commingling of production from the Peterson, South (Pennsylvanian) Field and the Peterson, South (Fusselman) Field in the above captioned 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,

Ralph B. Telford
Petroleum Engineer

Attachments

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

bcc: B. K. Irani

a. Operator: EP Operating Limited Partnership
ClayDesta National Bank Building
Suite 5250
6 Desta Drive
Midland, Texas 79705

b. Lease Name: Lambirth
Well Number: 3
Well Location: Unit Letter - G
Section 31, T-5-S, R-33-E
1980' FEL, 1980' FNL
Roosevelt County, New Mexico

c. Plat Attached as Exhibit No. 1

d. Form C-116 is attached for the Fusselman and the Pennsylvanian completions for the Lambirth No. 3 in the South Peterson Penn Field is attached as Exhibit Nos. 2 & 3.

e. A production decline curve for the Penn is attached as Exhibit No. 4.

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

The Lambirth No. 3 was spudded on June 5, 1978, and was drilled to a total depth of 8030'. The well was perforated in the lower Fusselman from 7940' to 7944'. After acidizing, the interval tested wet and was squeezed. Next, the Upper Fusselman was perforated from 7840' to 7849' and acidized. The well was completed as an oil well on July 26, 1978, from the Fusselman Formation. The well produced for two months with an average daily oil rate of 18 BOPD. Subsequently, a rework began on October 12, 1978, which plugged back at 7800' with a cast iron bridge plug and 10' of cement was placed on top. The Peterson Lime zone (sometimes referred to as the Lower Penn) was then tested. The Peterson Lime was perforated from 7702' to 7715' and treated with 2500 gallons of acid. The well was potentialed on August 20, 1979, for 643 MCFG, 11 BO, and a trace of water on a 9/64" choke with 875 psi tubing pressure. The well produced 9,535 BO and 509,911 MCFG before being recompleted in 1986. The current completion in the Penn Formation was performed on February 28, 1986. A retrievable bridge plug was set at 7685' to isolate the Penn from the Peterson Lime. The formation was perforated from 7653' to 7660' and acidized. The well potentialed 606 MCFG, 135 BO, and 0 BW on March 5, 1986. In June of 1986, the retrievable bridge plug set between the Peterson Lime Formation and the Penn Formation was removed.

g. South Peterson Penn Pool - 49.0° API
South Peterson Fusselman Pool - 48.3° API

h. Estimated production from the Penn zone: 1 BOPD
Estimated production from the Fusselman zone: 13 BOPD
Sum of individual streams: 14 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	1 BOPD	20 MCFGPD *
Fusselman Production	13 BOPD	26 MCFGPD **
	14 BOPD	46 MCFGPD

Oil Production - 7% Penn and 93 % Fusselman
Gas Production - 43% Penn and 57 % Fusselman

* - Penn Production was estimated from the current rate of the well.
** - Fusselman Production was estimated from the last rate the well produced at and its GOR.

j. The offset operator has been notified and the waiver letter is attached as Exhibit No. 5.

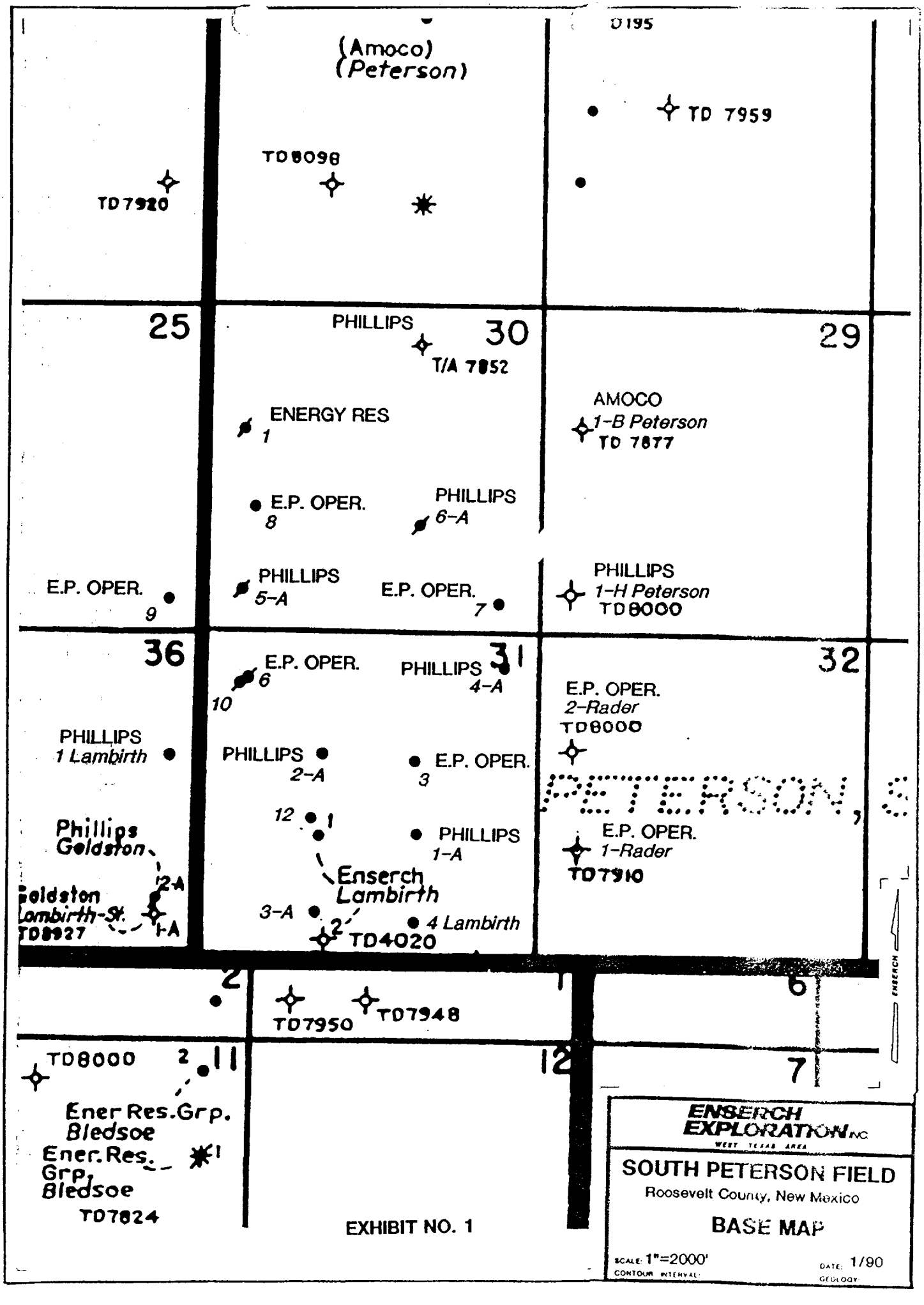

EXHIBIT NO. 1

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-116
Revised 1-1-65

Operator	Pool	County
ENSERCH EXPLORATION, INC.	South Peterson Fusselman	Roosevelt

Address	TYPE OF TEST – (X)	Scheduled [ ]	Completion [X]	Special [ ]
P.O. Box 4815, Midland, Texas 79701				

LEASE NAME	WELL NO.	LOCATION U	S	T	R	DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST WATER BBLS.	GRAV. OIL	OIL BBLS.	GAS M.C.F.	GAS – OIL RATIO CU.FT./BBL.
Lambirth	3	G	31	5S	33E	8-29-78	P	---	30 CP	25	24	14	48.4	20	49	2450/1

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.

Jerry Nash
(Signature)

District Production Manager
(Title)

October 16, 1978
(Date)

EXHIBIT 2

Submit 2 copies to Appropriate District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator	Pool	County
EP Operating Limited Partnership	Peterson, Penn, South (Associated)	Roosevelt

Address	TYPE OF TEST - (X)	Scheduled	Completion	Special
6 Desta Drive, Suite 5250, Midland, TX 79705-5510		[ ]	[ ]	[X]

LEASE NAME	WELL NO.	LOCATION U	S	T	R	DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST WATER BBLS.	GRAV. OIL	OIL BBLS.	GAS M.C.F.	GAS - OIL RATIO CU.FT/BBL.
Lambirth	3	G	31	5S	33E	02/10/94	*	48/64"	40#	1	24	0	49.0	1	20	20,000/1

* Well is now being produced by plunger lift.

Instructions:

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 Division.

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.

(See Rule 301, Rule 1116 & appropriate pool rules.)

EXHIBIT 3

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

S. D. Reed
Signature

S. D. Reed, Production Superintendent
Printed name and title

February 25, 1994 (915) 682-9756
Date Telephone No.

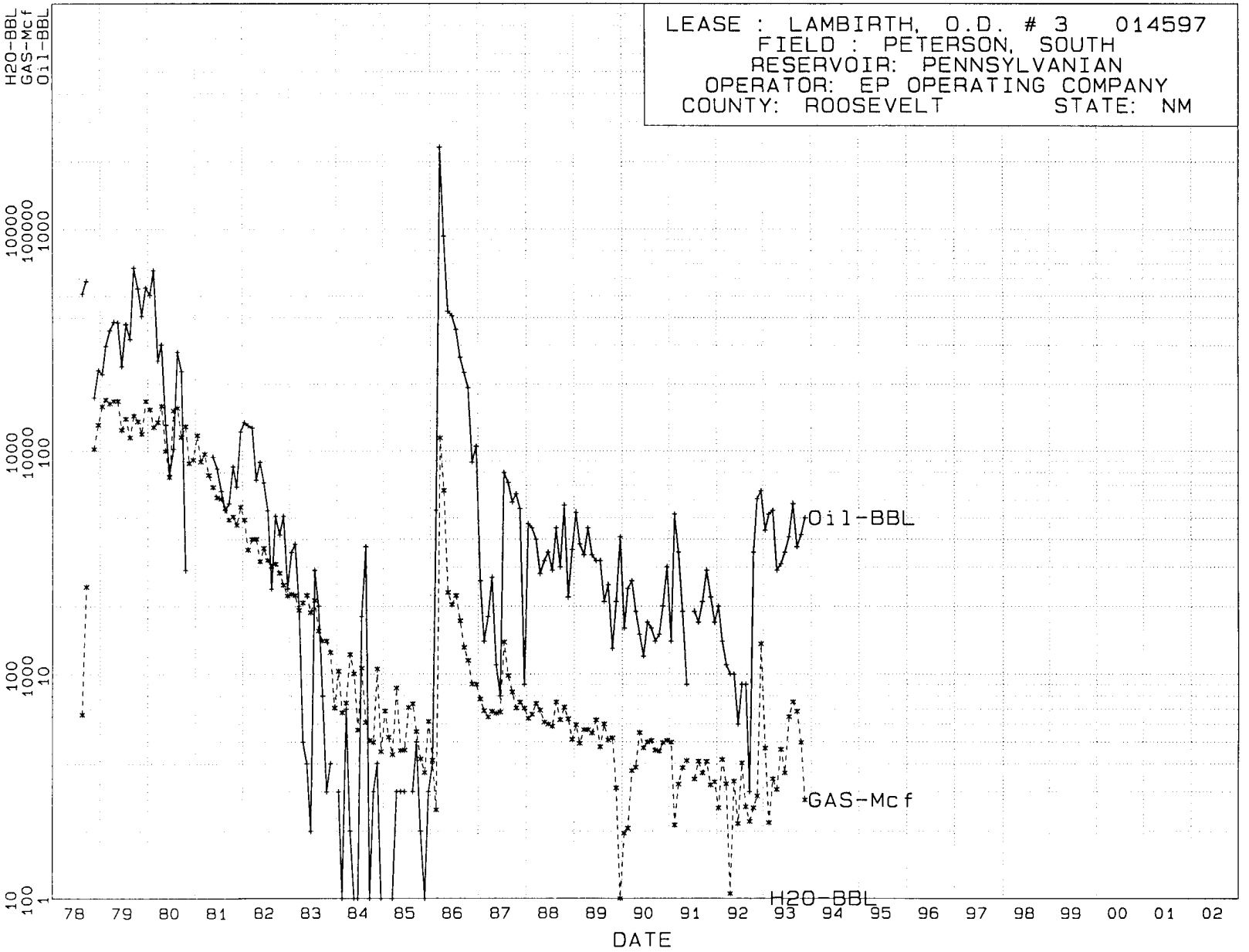
LEASE : LAMBIRTH, O.D. # 3 014597
FIELD : PETERSON, SOUTH
RESERVOIR: PENNSYLVANIAN
OPERATOR: EP OPERATING COMPANY
COUNTY: ROOSEVELT STATE: NM
H2O-BBL
GAS-Mcf
Oil-BBL
Oil-BBL
GAS-Mcf
H2O-BBL
DATE
78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02

EXHIBIT 4

ENSERCH EXPLORATION INC

ClayDesta Center
6 Desta Drive, Suite 5250
Midland, Texas 79705-5510
Phone: 915-682-9756
Fax #: 915-687-4109

Brian S. Sherran
~~Leonard Kersh~~
District Production Manager
West Texas/Rocky Mountain District
Production & Engineering Division
Mark Burkett
District Petroleum Engineer
Sammy Reed
Production Superintendent

February 21, 1994

Phillips Petroleum Company
4001 Penbrook
Odessa, Texas 79762

Re: Exception to New Mexico Rule 303-A (Downhole Commingling)
EP Operating Company
Lambirth No. 3
Peterson, South Field
Roosevelt County, New Mexico

Gentlemen:

EP Operating Limited Partnership proposes to commingle downhole within the wellbore of the Lambirth No. 3 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,

Ralph Telford
Petroleum Engineer

Name: _____

Title: Land Director-Permian Basin Region

Date: 2/24/94

EXHIBIT 5