

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

October 6, 1978

Mr. James Permenter
El Paso Natural Gas Company
P. O. Box 1492
El Paso, Texas 79978

Dear Mr. Permenter:

Attached is a copy of an August 17, 1978, letter to your office requesting more information on the Chacra Third Expanded Participating Area, Rincon Unit. I would appreciate your re-examining my request and forwarding the necessary documents.

Very truly yours,

LYNN TESCHENDORF
General Counsel

LT/fd
enc.

C
O
P
Y



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

JERRY APODACA
GOVERNOR

NICK FRANKLIN
SECRETARY

August 17, 1978

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Mr. James R. Permenter
El Paso Natural Gas Co.
P. O. Box 1492
El Paso, Texas 79978

Re: Case No. 299
Rincon Unit Area Third Expanded
Participating Area, Chacra
formation

Dear Mr. Permenter:

I have received the above-referenced application. However, no plat was furnished showing the proposed expansion, and no geological report was submitted in support of your application. I would appreciate having this data.

Also, your letter states the effective date of the expansion as being October 1, 1971. Wasn't your intention 1977?

Very truly yours,

(Ms.) LYNN TESCHENDORF
General Counsel

LT/dr



P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

August 11, 1978

Regional Oil and Gas Supervisor
United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: Rincon Unit I Sec. No. 916,
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
THIRD EXPANDED PARTICIPATING AREA,
Chacra Formation, Effective October 1,
1971

Gentlemen:

Pursuant to the provisions of Section 11 of the Rincon Unit Agreement I Sec. No. 916, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Third Expanded Participating Area for the Chacra Formation, to wit:

THIRD EXPANDED PARTICIPATING AREA - Effective October 1, 1971

Description of Lands

Acres

Township 27 North, Range 7 West, N.M.P.M.
Section 28: SE/4

160.00

This proposed Third Expanded Participating Area for the Chacra Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the Rincon Unit #220 Chacra Well is capable of producing unitized substances in paying quantities from the Chacra Formation. This well is as follows:

Regional Oil and Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
Page Two

The Rincon Unit #220 Well, located 1190' from the South line and 1800' from the East line of Section 28, Township 27 North, Range 7 West, N.M.P.M., was spudded on July 24, 1977, and completed on September 29, 1977 at a total depth of 4125'. The Chacra Formation in the intervals between 3884', 3889', 3922', 3926', 3948', 3953', 3958', 4068', 4093', 4100', and 4103' was treated with a sand-water fracturing process on September 22, 1977. The well was shut-in on September 22, 1977, and after being shut-in for eleven (11) days the Chacra Formation was tested on September 29, 1977 with an after frac guage of 869 MCF/D, and with an SIPC of 1022 psia. The spacing unit for this well is described as SE/4 of Section 28, Township 27 North, Range 7 West, containing 160.00 acres.

Attached hereto is Schedule IV showing the proposed Third Expanded Participating Area for the Chacra Formation in the Rincon Unit Area. This Schedule describes the Participating Area, shows the percentage of unitized substances allocated to the unitized tract, and the percentages of ownership in the tract.

If this Third Expanded Participating Area of the Chacra Formation meets with your approval, please indicate such approval in the space provided on the attached sheet and return an approved copy hereof for our files.

Copies of this letter and Schedule are being sent to the working interest owners shown on the attached sheet.

Yours very truly,



James R. Permenter
Manager, Land Contracts
and Titles
Land Department
Energy Resource Development

JRP:RHN:paw
Enclosures
Rincon Unit 4.5

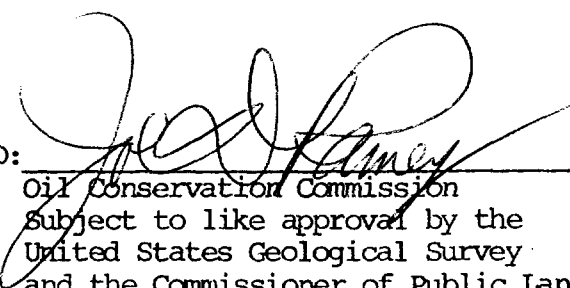
cc: Mr. Antonio Martinez
Executive Director
New Mexico Oil and Gas Accounting Commission
Post Office Box 2308
Santa Fe, New Mexico 87501

APPROVED: _____
Regional Oil & Gas Supervisor
United States Geological Survey
Subject to like approval by the
Commissioner of Public Lands and
the Oil Conservation Commission

DATE: _____

APPROVED: _____
Commissioner of Public Lands
Subject to like approval by the
United States Geological Survey
and the Oil Conservation Commission

DATE: _____

APPROVED:  _____
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey
and the Commissioner of Public Lands

DATE: 11/2/78

The foregoing approvals are for the Rincon Unit I Sec. No. 916, Rio Arriba County, New Mexico, Third Expanded Participating Area, Chacra Formation, Effective October 1, 1971.

RINCON OIL
Working Interest Owners

Burton Hawley, Inc.

Continental Oil Company

Tenneco Oil Company

Mr. J. Glenn Turner

The Wiser Oil Company

ILLEGIBLE

SCHEDULE IV
THIRD EXPANDED PARTICIPATING AREA FOR THE CHACRA FORMATION
RINCON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		

TRACT 2

079160	T-26-N, R-7-W Sec. 11: NW/4 Sec. 12: NW/4	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	<u>50.000000%</u>
	TOTAL					

TRACT 18

080213	T-27-N, R-7-W Sec. 28: SE/4 Sec. 33: SW/4	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	<u>50.000000%</u>
	TOTAL					

Effective October 1, 1977

SCHEDULE IV
 THIRD EXPANDED PARTICIPATING AREA FOR THE CHACRA FORMATION
 RINCON UNIT AREA

R E C A P I T U L A T I O N:

Description of lands in Participating Area:

Township 26 North, Range 7 West, N.M.P.M.
Section 11: NW/4
 Section 12: NW/4

Township 27 North, Range 7 West, N.M.P.M.
Section 28: SE/4
 Section 33: SW/4

Total number of acres in Participating Area:	640.00
Total number of acres committed to Participating Area:	640.00
Percent of Basic Royalty Committed:	100.00%
Percent of Working Interest Committed:	100.00%
Percent of ORRI Committed:	100.00%

Effective October 1, 1977

August 11, 1978

Regional Oil and Gas Supervisor
United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: Rincon Unit I Sec. No. 916,
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
THIRD EXPANDED PARTICIPATING AREA,
Chacra Formation, Effective October 1,
1971

Gentlemen:

Pursuant to the provisions of Section 11 of the Rincon Unit Agreement I Sec. No. 916, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Third Expanded Participating Area for the Chacra Formation, to wit:

THIRD EXPANDED PARTICIPATING AREA - Effective October 1, 1971

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 27 North, Range 7 West, N.M.P.M.</u>	
Section 28: SE/4	160.00

This proposed Third Expanded Participating Area for the Chacra Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the Rincon Unit #220 Chacra Well is capable of producing unitized substances in paying quantities from the Chacra Formation. This well is as follows:

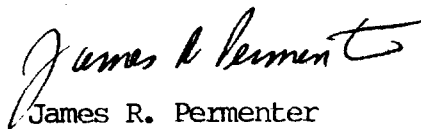
The Rincon Unit #220 Well, located 1190' from the South line and 1800' from the East line of Section 28, Township 27 North, Range 7 West, N.M.P.M., was spudded on July 24, 1977, and completed on September 29, 1977 at a total depth of 4125'. The Chacra Formation in the intervals between 3884', 3889', 3922', 3926', 3948', 3953', 3958', 4068', 4093', 4100', and 4103' was treated with a sand-water fracturing process on September 22, 1977. The well was shut-in on September 22, 1977, and after being shut-in for eleven (11) days the Chacra Formation was tested on September 29, 1977 with an after frac guage of 869 MCF/D, and with an SIPC of 1022 psia. The spacing unit for this well is described as SE/4 of Section 28, Township 27 North, Range 7 West, containing 160.00 acres.

Attached hereto is Schedule IV showing the proposed Third Expanded Participating Area for the Chacra Formation in the Rincon Unit Area. This Schedule describes the Participating Area, shows the percentage of unitized substances allocated to the unitized tract, and the percentages of ownership in the tract.

If this Third Expanded Participating Area of the Chacra Formation meets with your approval, please indicate such approval in the space provided on the attached sheet and return an approved copy hereof for our files.

Copies of this letter and Schedule are being sent to the working interest owners shown on the attached sheet.

Yours very truly,



James R. Permenter
Manager, Land Contracts
and Titles
Land Department
Energy Resource Development

JRP:RHN:paw
Enclosures
Rincon Unit 4.5

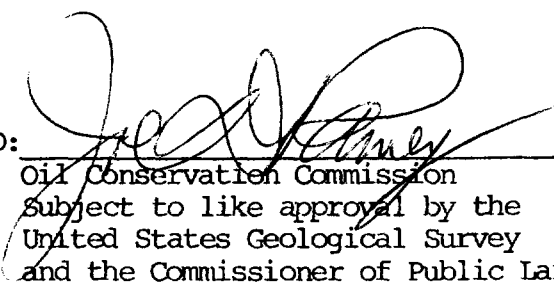
cc: Mr. Antonio Martinez
Executive Director
New Mexico Oil and Gas Accounting Commission
Post Office Box 2308
Santa Fe, New Mexico 87501

APPROVED: _____
Regional Oil & Gas Supervisor
United States Geological Survey
Subject to like approval by the
Commissioner of Public Lands and
the Oil Conservation Commission

DATE: _____

APPROVED: _____
Commissioner of Public Lands
Subject to like approval by the
United States Geological Survey
and the Oil Conservation Commission

DATE: _____

APPROVED:  _____
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey
and the Commissioner of Public Lands

DATE: 11/2/78

The foregoing approvals are for the Rincon Unit I Sec. No. 916, Rio Arriba County, New Mexico, Third Expanded Participating Area, Chacra Formation, Effective October 1, 1971.

RINCON UNIT
Working Interest Owners

Burton-Hawthorn, Inc.

Continental Oil Company

Tenneco Oil Company

Mr. J. Glenn Turner

The Wiser Oil Company

ILLEGIBLE

SCHEDULE IV
THIRD EXPANDED PARTICIPATING AREA FOR THE CHACRA FORMATION
RINCON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		

TRACT 2

5F 079160	T-26-N, R-7-W Sec. 11: NW/4 Sec. 12: NW/4	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	<u>50.000000%</u>
	TOTAL					

TRACT 18

5F 080213	T-27-N, R-7-W Sec. 28: SE/4 Sec. 33: SW/4	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	<u>50.000000%</u>
	TOTAL					

Effective October 1, 1977

SCHEDULE IV
THIRD EXPANDED PARTICIPATING AREA FOR THE CHACRA FORMATION
RINCON UNIT AREA

R E C A P I T U L A T I O N:

Description of lands in Participating Area:

Township 26 North, Range 7 West, N.M.P.M.

Section 11: NW/4

Section 12: NW/4

Township 27 North, Range 7 West, N.M.P.M.

Section 28: SE/4

Section 33: SW/4

Total number of acres in Participating Area:

Total number of acres committed to Participating Area:

Percent of Basic Royalty Committed:

Percent of Working Interest Committed:

Percent of ORRI Committed:

640.00

640.00

100.00%

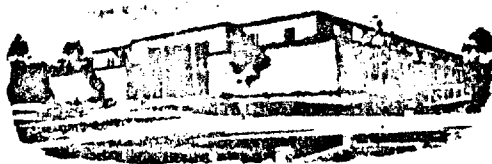
100.00%

100.00%

Effective October 1, 1977



State of New Mexico



Commissioner of Public Lands

August 21, 1978

PHIL R. LUCERO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

El Paso Natural Gas Company
P. O. Box 1492
El Paso, Texas 79978

no. 299

Re: Rincon Unit
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
THIRD EXPANDED PARTICIPATING AREA,
Chacra Formation, Effective October
1, 1977

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved the Third Expanded Participating Area, Chacra Formation, for the Rincon Unit, Rio Arriba County, New Mexico. The effective date to be October 1, 1977.

Enclosed is one approved copy for your files.

This approval is subject to like approval by the USGS and the New Mexico Oil Conservation Division.

Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division

PRL/RDG/s
encl.
cc:

OCC-Santa Fe, New Mexico ✓
USGS-Roswell, New Mexico
USGS-Albuquerque, New Mexico

May 8, 1978

Regional Oil & Gas Supervisor
United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87401

no. 299

Re: Rincon Unit
Rio Arriba County, New Mexico
APPROVAL OF THE FIFTEENTH
EXPANSION OF THE DAKOTA
FORMATION

Gentlemen:

This is to advise that the captioned Expansion for the Rincon Unit was approved by the Regulatory Bodies on the following dates:

United States Geological Survey	April 20, 1978
Commissioner of Public Lands	March 6, 1978
Oil Conservation Commission	February 28, 1978

Copies of this letter are being sent to the working interest owners of the Rincon Unit.

Yours very truly,

RH Nordhausen

R. H. Nordhausen
Senior Landman
Land Department
Energy Resource Development

RHN:paw
Rincon 4.3

RINCON UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Tenneco Oil Company

Mr. J. Glenn Turner

The Wiser Oil Company

ILLEGIBLE



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

APR 20 1978

El Paso Natural Gas Company
Attention: Mr. James R. Permenter
P. O. Box 1492
El Paso, Texas 79978

no. 299

Gentlemen:

The fifteenth revision of the Dakota participating area for the Rincon unit agreement, Rio Arriba County, New Mexico, was approved on this date, effective as of November 1, 1977.

The fifteenth Dakota revision adds 320.00 acres to the participating area, enlarging it to 13,583.94 acres, based on information obtained by the completion of unit well No. 227. Unit well No. 227 in the NW1/4 sec. 28, T. 27 N., R. 7 W., N.M.P.M., was completed on November 11, 1977, for an equipment sizing rate of 217 MCF of gas per day from the Dakota interval 7,278 to 7,448 feet. During 16 days of actual operations in January 1977, the well produced 304 barrels of oil and 5,142 MCF of gas.

Copies of the approved application are being distributed to the appropriate Federal offices and three copies are returned herewith. You are requested to furnish all interested parties with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SGD.) JAMES W. SUTHERLAND

Area Oil and Gas Supervisor

Enclosures (3)

cc:
BLM, Santa Fe (1tr. only)
NMOCC, Santa Fe (1tr. only) *copy for*
Com. Pub. Lands, Santa Fe (1tr. only)

April 20, 1978

Regional Oil & Gas Supervisor
United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501

No. 299

Gentlemen:

The 1978 Drilling Programs for the below listed units were approved by the regulatory bodies on the dates indicated:

<u>Unit</u>	<u>USGS</u>	<u>CPL</u>	<u>OCC</u>
San Juan 28-5	2-3-78	N/A	1-26-78
San Juan 28-7	2-3-78	1-25-78	1-26-78
San Juan 29-7	3-6-78	1-19-78	1-17-78
San Juan 30-6	1-27-78	1-19-78	1-17-78
San Juan 32-9	1-27-78	1-19-78	2-8-78
Canyon Largo	3-6-78	1-19-78	1-17-78
Rincon	1-31-78	1-19-78	1-16-78

Copies of this letter are being sent to the working interest owners of the above units.

Very truly yours,

RH Nordhausen

R. H. Nordhausen
Senior Landman
Land Department
Energy Resource Development

RHN:paw

SJ 28-5, 3.0; SJ 28-7, 3.0; SJ 29-7, 3.0;
SJ 30-6, 3.0; SJ 32-9, 3.0; Canyon Largo 3.0;
Rincon, 3.0

RINCON UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

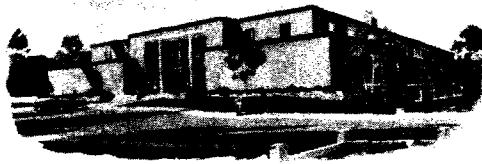
Tenneco Oil Company

Mr. J. Glenn Turner

The Wiser Oil Company



State of New Mexico



RECEIVED

MAR 8 1978

Oil Conservation Commission

Commissioner of Public Lands

PHIL R. LUCERO
COMMISSIONER

March 6, 1978

P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

El Paso Natural Gas Company
P. O. Box 1492
El Paso, Texas 79978

70 299

Re: Rincon Unit
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
FIFTEENTH EXPANDED PARTICIPATING
AREA, DAKOTA FORMATION
Effective November 1, 1977

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved your Fifteenth Expanded Participating Area, Dakota Formation, for the Rincon Unit, Rio Arriba County, New Mexico. Such expansion includes the S/2 of Section 28, Township 27 North, Range 7 West.

Enclosed is one approved copy for your records

This approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAMAM, Director
Oil and Gas Division

ILLEGIBLE

PRL/RDG/s
encls.
cc:

OCC-Santa Fe, New Mexico ✓
USGS-Roswell, New Mexico
USGS-Albuquerque, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 28, 1978

C
O
P
Y
El Paso Natural Gas Company
P. O. Box 1492
El Paso, Texas 79978

Attention: James R. Permenter

Re: Case No. 299
Rincon Unit
Fifteenth Expanded
Participating Area for
the Dakota Formation

Gentlemen:

We hereby approve the Fifteenth Expanded Participating Area for the Dakota Formation within the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

One approved copy of the Participating Area is returned herewith.

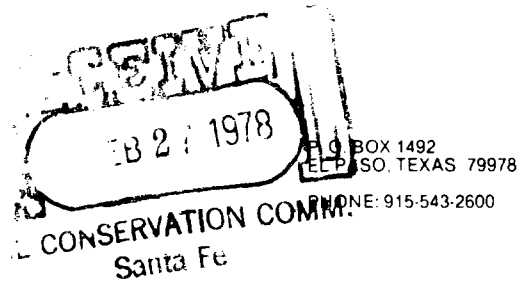
Very truly yours,

JOE D. RAMEY
Secretary-Director

JDR/LT/fd
enc.

cc: U.S.G.S. - Roswell
Commissioner of Public Lands

El Paso NATURAL GAS
COMPANY



February 27, 1978

Regional Oil & Gas Supervisor
United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: Rincon Unit, I Sec. 916
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
FIFTEENTH EXPANDED PARTICIPATING
AREA, DAKOTA FORMATION
Effective November 1, 1977

Gentlemen:

Pursuant to the provisions of Section 11 of the Rincon Unit Agreement, I Sec. No. 916, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Fifteenth Expanded Participating Area for the Dakota Formation, to wit:

FIFTEENTH EXPANDED PARTICIPATING AREA - Effective November 1, 1977

<u>Description of Lands</u>	<u>Acres</u>
Township 27 North, Range 7 West NMPM Section 28: S/2	320.00

The proposed Fifteenth Expanded Participating Area of the Dakota Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the Rincon Unit #227 well is capable of producing unitized substances in paying quantities from the Dakota formation.

February 16, 1978

In support of this application, the following listed Exhibits are made a part hereof:

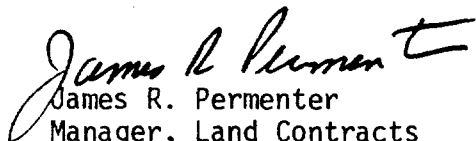
- EXHIBIT "A" - Ownership map reflecting the boundaries of the Unit and the Fifteenth Expanded Participating Area of the Dakota Formation within the Rincon Unit.
- EXHIBIT "B" - Geological Report on the Fifteenth Expanded Participating Area of the Dakota Formation within the Rincon Unit.
- EXHIBIT "C" - Plate No. 1: Rincon Unit Dakota Structure Map.
Plate No. 2: Rincon Unit Dakota Isopach Map.
- EXHIBIT "D" - Table 1: Dakota production and deliverability.

Attached hereto is Schedule XVI that shows the proposed Fifteenth Expanded Participating Area for the Dakota Formation in the Rincon Unit Area. This Schedule describes the Expanded Participating Area; shows the percentage of unitized substances allocated to each unitized tract, and the percentages of ownership in each tract.

If this Fifteenth Expanded Participating Area of the Dakota Formation meets with your approval, please indicate such approval in the space provided below and return an approved copy hereof for our files.

Copies of this letter are being sent to the working interest owners shown on the attached sheet.

Very truly yours,


James R. Permenter
Manager, Land Contracts
and Titles
Land Department
Energy Resource Development

JRP:RHN:sas
Enclosures
Rincon Unit 4.3

cc: Mr. Antonio Martinez, Executive Director
New Mexico Oil & Gas Accounting Commission

APPROVED: _____

Regional Oil & Gas Supervisor
United States Geological Survey
Subject to like approval by the
Commissioner of Public Lands and
the Oil Conservation Commission

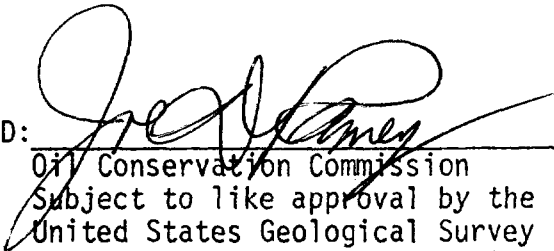
DATE: _____

APPROVED: _____

Commissioner of Public Lands
Subject to like approval by the
United States Geological Survey
and the Oil Conservation Commission

DATE: _____

APPROVED: _____


Oil Conservation Commission
Subject to like approval by the
United States Geological Survey
and the Commissioner of Public Lands

DATE: 2/28/78

The foregoing approvals are for the Fifteenth Expanded Participating Area of the Dakota Formation, Rincon Unit I Sec. No. 916, Rio Arriba County, New Mexico.

RINCON UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Tenneco Oil Company

Mr. J. Glenn Turner

The Wiser Oil Company

ILLEGIBLE

SCHEDULE XVI
FIFTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
RINCON UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
079052	T-27-N, R-6-W	520.00				<u>2.852148%</u>
	Sec. 17: SW/4, W/2 SE/4, SE/4		Royalty	12.50%	12.50%	
	Sec. 18: SE/4, E/2 SW/4	Working Interest:				
		El Paso Natural Gas Co.		82.50%	82.50%	
		ORRI		5.00%	5.00%	
	TOTAL		100.00%	100.00%		
079160	T-26-N, R-7-W	960.80				<u>5.269893%</u>
	Sec. 1: Lots 1,2,3,4, S/2 N/2, S/2 (A11)		Royalty	12.50%	12.50%	
	Sec. 12: E/2	Working Interest:				
		El Paso Natural Gas Co.		82.50%	82.50%	
		ORRI		5.00%	5.00%	
	TOTAL		100.00%	100.00%		
079298	T-27-N, R-7-W	336.22				<u>1.844133%</u>
	Sec. 13: Lots 1,2, 3,4,5,6, 7,8 (S/2)		Royalty	12.50%	12.50%	
		Working Interest:				
		El Paso Natural Gas Co.		82.50%	82.50%	
		ORRI		5.00%	5.00%	
	TOTAL		100.00%	100.00%		
079298-A	T-27-N, R-7-W	160.00				<u>.877584%</u>
	Sec. 14: NW/4		Royalty	12.5000%	12.5000%	
		Working Interest:				
		El Paso Natural Gas Co.		74.0625%	74.0625%	
		ORRI		13.4375%	13.4375%	
	TOTAL		100.0000%	100.0000%		

UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

Form 21-71 (2-72)

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 5						
079298-C	T-27-N, R-7-W	352.07				
	Sec. 24: Lots 1,2, 3,4,5,6,7, 8 (N/2)		Royalty Working Interest: Bert Fields ORRI	12.50% 82.50% 5.00% 100.00%	0.00% . 0.00% 0.00% 0.00%	0.000000%
	TOTAL					
	TRACT 6					
	T-27-N, R-7-W	768.76				
079298-D	Sec. 13: N/2		Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	4.216572%
	Sec. 14: Lots 7,9,10 (S/2 SW/4, NE/4 SW/4)					
	Sec. 24: Lots 9,10,11, 12,13,14,15, 16 (S/2)					
	TOTAL					
	TRACT 7					
079301	T-26-N, R-6-W	161.81				
	Sec. 6: Lots 3,4,5, SE/4 NW/4		Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	.887512%
	TOTAL					
	TRACT 8					
	T-26-N, R-6-W	161.35				
079301-A	Sec. 6: Lots 6,7, E/2 SW/4		Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	.884989%
	TOTAL					

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATIO
			OWNERSHIP	PERCENTAGE		
TRACT 9						
079302	T-26-N, R-6-W	160.48				<u>.880217</u>
	Sec. 6: Lots 1,2, S/2 NE/4		Royalty	12.50%	12.50%	
			Working Interest:			
			E1 Paso Natural Gas Co.	82.50%	82.50%	
			ORRI	5.00%	5.00%	
	TOTAL			<u>100.00%</u>	<u>100.00%</u>	
TRACT 10						
079302-B	T-26-N, R-6-W	160.00				<u>.877584</u>
	Sec. 6: SE/4		Royalty	12.50%	12.50%	
			Working Interest:			
			E1 Paso Natural Gas Co.	82.50%	82.50%	
			ORRI	5.00%	5.00%	
	TOTAL			<u>100.00%</u>	<u>100.00%</u>	
TRACT 11						
079321	T-27-N, R-7-W	656.48				<u>3.600728</u>
	Sec. 25: Lots 1,2,3, 4,5,6,7,8, E/2		Royalty	12.50%	12.50%	
			Working Interest:			
			E1 Paso Natural Gas Co.	82.50%	82.50%	
			ORRI	5.00%	5.00%	
	TOTAL			<u>100.00%</u>	<u>100.00%</u>	
TRACT 12						
079360	T-27-N, R-7-W	800.00				<u>4.387921</u>
	Sec. 15: E/2		Royalty	12.50%	12.50%	
	Sec. 22: NE/4		Working Interest:			
	Sec. 23: N/2		E1 Paso Natural Gas Co.	82.50%	82.50%	
			ORRI	5.00%	5.00%	
	TOTAL			<u>100.00%</u>	<u>100.00%</u>	
TRACT 13						
TRACT 14						
TRACT 15						
TRACT 16						
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SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT AC PARTICIPA
			OWNERSHIP	PERCENTAGE		
SF 079364	T-27-N, R-6-W	1309.42	TRACT 13			<u>7.182038</u>
	Sec. 28: N/2		Royalty	12.50%	12.50%	
	Sec. 29: S/2		Working Interest:			
	Sec. 30: N/2		El Paso Natural Gas Co.	80.00%	80.00%	
	Sec. 31: N/2		ORRI	7.50%	7.50%	
				TOTAL	100.00%	100.00%
SF 079364	T-27-N, R-6-W	1295.91	TRACT 13			<u>7.107938</u>
	Sec. 28: S/2		Royalty	12.50%	12.50%	
	Sec. 29: N/2		Working Interest:			
	Sec. 30: S/2		El Paso Natural Gas Co.	77.00%	77.00%	
	Sec. 31: S/2		ORRI	10.50%	10.50%	
				TOTAL	100.00%	100.00%
SF 079365-A	T-27-N, R-6-W	520.00	TRACT 14			<u>2.852148</u>
	Sec. 22: NE/4, NE/4 SE/4		Royalty	12.50%	12.50%	
	Sec. 23: N/2		Working Interest:			
			El Paso Natural Gas Co.	77.00%	77.00%	
			ORRI	10.50%	10.50%	
				TOTAL	100.00%	100.00%
SF 079365-A	T-27-N, R-6-W	320.00	TRACT 14			<u>1.75516</u>
	Sec. 23: S/2		Royalty	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.	80.00%	80.00%	
			ORRI	7.50%	7.50%	
				TOTAL	100.00%	100.00%

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT AC- PARTICIPAT
			OWNERSHIP	PERCENTAGE		
F 079366	T-27-N, R-6-W	959.40				<u>5.262214</u>
	Sec. 19: Lots 3,4, SE/4, E/2 SW/4		Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50%	12.50%	
	Sec. 21: S/2			77.00%	77.00%	
	Sec. 22: SE/4 SW/4, W/2 W/2, S/2 SE/4			10.50%	10.50%	
	Sec. 27: NE/4 SE/4			100.00%	100.00%	
<u>TRACT 15</u>						
F 079366	T-27-N, R-6-W	1279.32				<u>7.016943</u>
	Sec. 19: Lots 1,2, E/2 NW/4, NE/4		Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50%	12.50%	
	Sec. 20: S/2			80.00%	80.00%	
	Sec. 21: N/2			7.50%	7.50%	
	Sec. 27: N/2			100.00%	100.00%	
<u>TRACT 15-A</u>						
F 079366	T-27-N, R-6-W	320.00				<u>1.755169</u>
	Sec. 20: N/2		Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50%	12.50%	
				77.00%	77.00%	
				10.50%	10.50%	
				100.00%	100.00%	
<u>TRACT 15-A</u>						
F 079367-A	T-27-N, R-6-W	480.00				<u>2.632753</u>
	Sec. 26: S/2		Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50%	12.50%	
	Sec. 27: SW/4			80.00%	80.00%	
				7.50%	7.50%	
				100.00%	100.00%	
<u>TRACT 16</u>						

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT AC PARTICIPAT
			OWNERSHIP	PERCENTAGE		
SF 079367-A	T-27-N, R-6-W	440.00				<u>2.41335</u>
	Sec. 26: N/2		Royalty	12.50%	12.50%	
	Sec. 27: W/2 SE/4,		Working Interest:			
	SE/4 SE/4		El Paso Natural Gas Co.	77.00%	77.00%	
			ORRI	10.50%	10.50%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
SF 079404-A	T-27-N, R-6-W	157.76				<u>.86529</u>
	Sec. 18: Lots 1,2,		Royalty	12.50%	12.50%	
	3,4		Working Interest:			
			El Paso Natural Gas Co.	86.50%	86.50%	
			ORRI	1.00%	1.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
SF 080385	T-27-N, R-7-W	2325.09				<u>12.75288</u>
	Sec. 22: SE/4		Royalty	12.50%	12.50%	
	Sec. 23: Lots 1,2,3,		Working Interest:			
	4, SW/4 (S/2)		El Paso Natural Gas Co.	82.50%	82.50%	
	Sec. 26: Lots 1,2,3,		ORRI	5.00%	5.00%	
	4,5,6,7,8,9,			<u>100.00%</u>	<u>100.00%</u>	
	10,11,12,13,14,					
	15,16 (All)					
	Sec. 27: E/2, SW/4					
	Sec. 35: Lots 1,2,3,4,5,					
6,7,8,9,10,11,						
12,13,14,15,16 (All)						
SF 080213	T-27-N, R-7-W	320.00				<u>1.75516</u>
	Sec. 28: S/2		Royalty	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.	82.50%	82.50%	
			ORRI	5.00%	5.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT AC- TICIPAT
			OWNERSHIP	PERCENTAGE		
<u>TRACT 20</u>						
M 012209	T-27-N, R-7-W	337.63	Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50%	12.50%	<u>1.851867</u>
	Sec. 14: Lots 1,2, 3,4,5,6, 8,11,12 (E/2, NW/4 SW/4)	81.50%		81.50%		
		6.00%		6.00%		
		100.00%		100.00%		
		TOTAL				
<u>TRACT 21</u>						
M 013654	T-27-N, R-6-W	600.00	Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50%	12.50%	<u>3.290941</u>
	Sec. 18: NE/4, E/2 NW/4	81.50%		81.50%		
	Sec. 17: NE/4 SE/4, N/2	6.00%		6.00%		
		100.00%		100.00%		
		TOTAL				
<u>TRACT 22</u>						
E-289-29	T-27-N, R-7-W	160.00	Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50%	12.50%	<u>.877584</u>
	Sec. 36: SW/4	82.50%		82.50%		
		5.00%		5.00%		
		100.00%		100.00%		
		TOTAL				
<u>TRACT 23</u>						
E-290-3	T-27-N, R-6-W	200.00	Royalty Working Interest: The Wiser Oil Co. ORRI	12.50%	12.50%	<u>1.096980</u>
	Sec. 32: E/2 NW/4, NE/4 SW/4	87.50%		87.50%		
		0.00%		0.00%		
		100.00%		100.00%		
		TOTAL				

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACT PARTICIPATI
			OWNERSHIP	PERCENTAGE		
-290-28	T-27-N, R-6-W	200.00				<u>1.096980</u>
	Sec. 32: SE/4, SW/4, W/2 NE/4		Royalty	12.50%	12.50%	
			Working Interest:			
	T-27-N, R-7-W		El Paso Natural Gas Co.	82.50%	82.50%	
	Sec. 36: E/2 SE/4		ORRI	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
<u>TRACT 24</u>						
-290-28	T-27-N, R-6-W	440.00				<u>2.413356</u>
	Sec. 16: W/2, W/2 SE/4, SE/4 SE/4		Royalty	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.	77.50%	77.50%	
			ORRI	10.00%	10.00%	
			TOTAL	100.00%	100.00%	
<u>TRACT 25</u>						
-290-28	T-27-N, R-6-W	200.00				<u>1.096980</u>
	Sec. 32: W/2 NW/4, NW/4 SW/4		Royalty	12.50%	12.50%	
			Working Interest:			
	T-27-N, R-7-W		El Paso Natural Gas Co.	87.50%	87.50%	
	Sec. 36: N/2 NE/4		ORRI	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
<u>TRACT 25</u>						
-290-28	T-27-N, R-6-W	680.00				<u>3.729733</u>
	Sec. 32: SW/4 SW/4, E/2 NE/4, SE/4		Royalty	12.50%	12.50%	
			Working Interest:			
	Sec. 16: NE/4		El Paso Natural Gas Co.	82.50%	82.50%	
			ORRI	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT AC PARTICIPA
			OWNERSHIP	PERCENTAGE		
TRACT 26						
E-291-3	T-26-N, R-7-W	320.76	Royalty Working Interest: The Wiser Oil Co. ORRI	12.50%	12.50%	1.75933
	Sec. 2: Lots 1,2, S/2 NE/4, SE/4 (E/2)			87.50%	87.50%	
				0.00%	0.00%	
				100.00%	100.00%	
	TOTAL					
TRACT 27						
E-291-35	T-26-N, R-7-W	160.68	Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50%	12.50%	.88131
	Sec. 2: Lots 3,4, S/2 NW/4 (NW/4)			82.50%	82.50%	
				5.00%	5.00%	
				100.00%	100.00%	
	TOTAL					
TRACT 28						
E-291-35	T-26-N, R-7-W	160.00	Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50%	12.50%	.8775
	Sec. 2: SW/4			82.50%	82.50%	
				5.00%	5.00%	
				100.00%	100.00%	
	TOTAL					
TRACT 29						
E-6143-4	T-27-N, R-6-W	40.00	Royalty Working Interest: El Paso Natural Gas Co. ORRI	12.50%	12.50%	.2193
	Sec. 16: NE/4 SE/4			82.50%	82.50%	
				5.00%	5.00%	
				100.00%	100.00%	
	TOTAL					

SCHEDULE XVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT AC- TIVITIES PARTICIPAT
			OWNERSHIP	PERCENTAGE		
TRACT 30						
see	T-27-N, R-6-W	160.00				
	Sec. 22: E/2 NW/4, NE/4 SW/4, NW/4 SE/4					
			Royalty	12.50%	12.50%	.877584
			Working Interest:			
			El Paso Natural Gas Co.	75.00%	75.00%	
		ORRI	12.50%	12.50%		
		TOTAL	100.00%	100.00%		

RECAPITULATION

Description of Lands in Participating Area:

Township 26 North, Range 6 West, N.M.P.M.	
Section 6: All	
Township 26 North, Range 7 West, N.M.P.M.	
Section 1: All	
Section 2: All	
Section 12: E/2	
Township 27 North, Range 6 West, N.M.P.M.	
Sections 16,17,18,19,20,21,22,23,26,27, 28,29,30,31,32: All	
Township 27 North, Range 7 West, N.M.P.M.	
Section 13: All	
Section 14: All	
Section 15: E/2	
Section 22: E/2	
Section 23: All	
Section 24: All	
Section 25: All	
Section 26: All	
Section 27: E/2, SW/4	
Section 28: S/2	
Section 35: Lots 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 (All)	
Section 36: All	
Total Number of Acres in Participating Area	18,583.94
Total Number of Committed Acres in Participating Area:	18,231.87