



# United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

January 6, 1975

297

El Paso Natural Gas Company  
Attention: Mr. D. N. Canfield  
P.O. Box 1492  
El Paso, Texas 79978

Gentlemen:

The 1975 plan of development submitted for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of no additional wells, was approved on this date subject to like approval by the appropriate State officials.

Three approved copies are enclosed.

Sincerely yours,

COPY SENT TO [unclear]  
CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

cc:  
NMOCC, Santa Fe (ltr only)  
Com. Pub. Lands, Santa Fe (ltr only)  
Durango (w/cy plan)

JAGillham:ds

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

December 5, 1974

299

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

Attention: Mr. D. N. Canfield

Re: 1975 Drilling Program,  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1975 for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

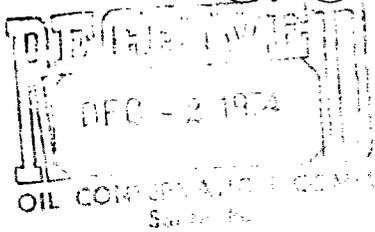
Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey  
Box 1857  
Roswell, New Mexico

Commissioner of Public Lands  
Santa Fe, New Mexico



*El Paso Natural Gas Company*

*El Paso, Texas 79978*

November 25, 1974

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 87501

Re: Rincon Unit I Sec. No. 916  
Rio Arriba County, New Mexico  
1975 DRILLING PROGRAM

Gentlemen:

By letter dated September 20, 1974, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned unit for the calendar year 1974. Said program provided for the drilling of no wells and none were drilled.

As of this date, the total number of wells drilled in the Rincon Unit on acreage committed to the unit is as follows:

|                                 |            |
|---------------------------------|------------|
| Pictured Cliffs                 | 106        |
| Chacra                          | 4          |
| Mesaverde                       | 16         |
| Dual, Pictured Cliffs-Mesaverde | 8          |
| Dual, Mesaverde-Dakota          | 6          |
| Mesaverde, Non-Commercial       | 7          |
| Dakota                          | 48         |
| Gallup-Dakota (Gallup-Plugged)  |            |
| (Dakota-Non-Commercial)         | 1          |
| Tocito (Oil)                    | 2          |
|                                 | <u>198</u> |

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

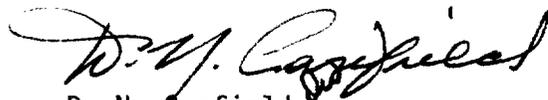
Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides for the drilling of no wells during the calendar year 1975.

All working interest owners have been contacted and this Drilling Program reflects the desires of a majority of such owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company. Copies of this Drilling Program are being sent to the working interest owners shown on the attached sheet.

Yours very truly,



D. N. Canfield  
Director of Land  
Energy Resource Development

DNC:DW:km  
Attachments  
Rincon Unit 3.0

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

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

APPROVED:  \_\_\_\_\_ DATE: December 5, 1974  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
the Commissioner of Public Lands

The foregoing approvals are for the 1975 Drilling Program for the 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

State of New Mexico

~~TELEPHONE~~  
505-827-2748



Commissioner of Public Lands

December 3, 1974

ALEX J. ARMIJO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Rincon Unit  
Rio Arriba County, New Mexico  
1975 DRILLING PROGRAM

ATTENTION: Mr. D. H. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1975 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, this program proposes the drilling of no additional wells during 1975. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed.

Please remit a Three (\$3.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Division

AJA/RDG/e  
encl.  
cc:

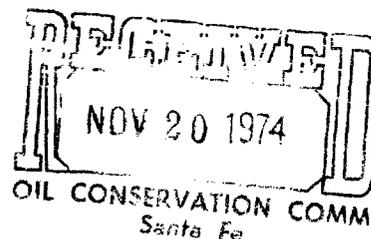
USGS-Roswell, New Mexico  
GCC- Santa Fe, New Mexico

# El Paso Natural Gas Company

299

El Paso, Texas 79978

November 14, 1974



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 87501

Gentlemen:

The below referenced Unit Drilling Programs were approved by all regulatory agencies on the indicated dates:

| <u>Unit</u>  | <u>Agency</u>                   | <u>Date</u> |
|--|---------------------------------|-------------|
| Rincon Unit 1974<br>Drilling Program                           | United States Geological Survey | 11-6-74     |
|  | Commissioner of Public Lands    | 10-2-74     |
|  | Oil Conservation Commission     | 9-26-74     |
| San Juan 27-4 Amended<br>1974 Supplemental<br>Drilling Program | United States Geological Survey | 11-6-74     |
|  | Commissioner of Public Lands    | N/A         |
|  | Oil Conservation Commission     | 10-10-74    |

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

Yours very truly,

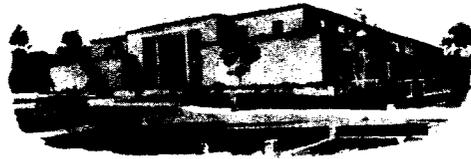
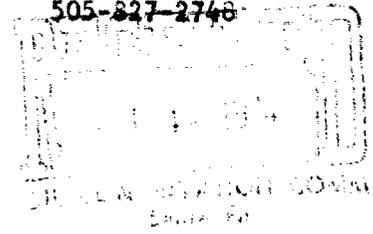
A handwritten signature in cursive script that reads "Don Wadsworth".

Don Wadsworth  
Landman  
Land Department  
Energy Resource Development

DW:km  
Rincon Unit 3.0  
San Juan 27-4 Unit 3.0

State of New Mexico

TELEPHONE  
505-827-2748



Commissioner of Public Lands

October 2, 1974

P. O. Box 1148  
SANTA FE, NEW MEXICO

ALEX J. ARMIJO  
COMMISSIONER

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Rincon Unit  
Rio Arriba County, New Mexico  
1974 Drilling Program

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1974 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, this program proposes the drilling of no additional wells during 1974. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed.

Please remit a three (\$3.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s  
encls.  
cc:

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



# United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

November 6, 1974

299

El Paso Natural Gas Company  
Attention: Mr. D. N. Canfield  
P.O. Box 1492  
El Paso, Texas 79978

Gentlemen:

On this date, your 1974 plan of development for the Rincon unit area, Rio Arriba County, New Mexico, wherein you propose the drilling of no additional wells, was approved. Such approval is subject to like approval by the appropriate officials of the State of New Mexico.

Three approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

cc:  
✓ NMOCC, Santa Fe (ltr only)  
Com. Pub. Lands, Santa Fe (ltr only)  
Durango (w/ cy plan)

JAGillham:ds

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

299

September 26, 1974

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

Attention: Mr. D. N. Canfield

Re: 1974 Drilling Program,  
Rincon Unit, Rio Arriba  
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1974 Drilling Program providing for the drilling of no wells for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey  
Roswell, New Mexico

Commissioner of Public Lands  
Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas 79978

September 20, 1974

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. No. 916  
Rio Arriba County, New Mexico  
1974 DRILLING PROGRAM

Gentlemen:

By letter dated May 14, 1973, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned unit for the calendar year 1973. Said program provided for the drilling of eight (8) Pictured Cliffs wells, one (1) Chacra well and four (4) Dakota wells. Pictured Cliffs wells #142, #148, #194, #195, #196, #197, #198 and #199 were completed upon acreage lying within the existing Pictured Cliffs Participating Area and caused no further expansion of the Pictured Cliffs Participating Area. Dakota wells #201, and #202 were completed upon acreage lying within the existing Dakota Participating Area and caused no further expansion of the Dakota Participating Area. Dakota wells #134 and #203 and Chacra well #200 were drilled outside of their respective Participating Areas and caused the Fourteenth Expansion of the Dakota Participating Area and the Second Expansion of the Chacra Participating Area.

As of this date, the total number of wells drilled in the Rincon Unit on acreage committed to the unit is as follows:

|   |            |
|---|------------|
| Pictured Cliffs   | 106        |
| Chacra  | 4          |
| Mesaverde   | 16         |
| Dual, Pictured Cliffs-Mesaverde                           | 8          |
| Dual, Mesaverde-Dakota                                    | 6          |
| Mesaverde, Non-Commercial                                 | 7          |
| Dakota  | 48         |
| Gallup-Dakota (Gallup-Plugged)<br>(Dakota-Non-Commercial) | 1          |
| Tocito (Oil)  | 2          |
|   | <u>198</u> |

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

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program which provides for the drilling of no wells during the calendar year 1974.

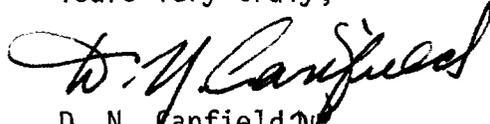
All working interest owners have been contacted and this Drilling Program reflects the desires of a majority of such owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Yours very truly,



D. N. Canfield  
Director of Land  
Energy Resource Development

DNC:DW:sn  
Attachment  
Rincon Unit 3.0

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: *A. L. Kirtland*  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey  
and the Commissioner of Public Lands

DATE: Sept 26, 1974

The foregoing approvals are for the 1974 Drilling Program for the 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

El Paso Natural Gas Company 299

El Paso, Texas 79978

September 24, 1974

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, Second Revision  
Chacra Participating Area,  
Effective April 1, 1974,  
Rio Arriba County, New Mexico

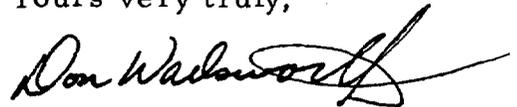
Gentlemen:

The referenced expansion of the Rincon Unit Chacra Participating Area was approved by the Regulatory Agencies on the following dates:

United States Geological Survey - September 20, 1974  
Commissioner of Public Lands - August 27, 1974  
Oil Conservation Commission - August 28, 1974

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

Yours very truly,



Don Wadsworth  
Landman, Land Department  
Energy Resource Development

DW:lj  
Rincon Unit 5.0



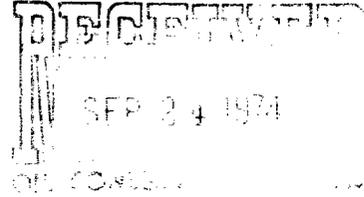
# United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

297  
September 20, 1974

El Paso Natural Gas Company  
Attention: Mr. James R. Permenter  
P.O. Box 1492  
El Paso, Texas 79999



Gentlemen:

The second revision of the Chacra participating area of the Rincon unit, I-Sec. No. 916, Rio Arriba County, New Mexico, was approved on September 20, 1974, by the Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of April 1, 1974.

The second Chacra revision adds 160 acres described as the SW $\frac{1}{4}$  of sec. 33, T. 27 N., R. 7 W., N.M.P.M., thereby enlarging the Chacra participating area to 480 acres. Such revision is based on information obtained by the completion of unit well No. 200 located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$  of sec. 33 as a commercial well. Unit well No. 200 was completed on April 16, 1974, for a calculated absolute open flow potential of 844 MCFGPD from the Chacra interval 3,956 to 3,970 feet.

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

Sincerely yours,

(ORIG. SGD.) N. O. FREDERICK

N. O. FREDERICK  
Area Oil and Gas Supervisor

cc:  
BLM, Santa Fe (ltr only)  
NMOCC, Santa Fe (ltr only)  
Com. Pub. Lands, Santa Fe (ltr only)  
Durango (w/cy appln)

ARStall:ds

# OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO  
P. O. BOX 2088 - SANTA FE  
87501

August 28, 1974

I. R. TRUJILLO  
CHAIRMAN

LAND COMMISSIONER  
ALEX J. ARMIJO  
MEMBER

STATE GEOLOGIST  
A. L. PORTER, JR.  
SECRETARY - DIRECTOR

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

Attention: Mr. James R. Permenter

Re: Second Expansion Chacra  
Participating Area,  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Second Expanded Participating Area, Chacra Formation for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the application are being forwarded to the United States Geological Survey, Roswell, New Mexico, and two approved copies are returned to the Commissioner of Public Lands.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

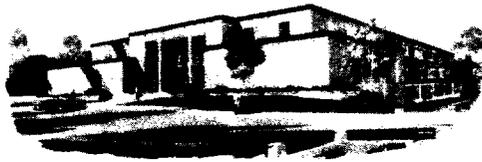
ALP/JEK/og

cc: United States Geological Survey  
Box 1857  
Roswell, New Mexico

Commissioner of Public Lands  
Land Office Building  
Santa Fe, New Mexico

State of New Mexico

TELEPHONE  
505-827-2748



Commissioner of Public Lands

August 27, 1974

ALEX J. ARMIJO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

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

Re: Rincon Unit  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
SECOND EXPANDED PARTICIPATING AREA,  
Chacra Formation, Effective April 1,  
1974

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved your Second Expanded Participating Area, Chacra Formation, for the Rincon Unit, Rio Arriba County, New Mexico. This approval is subject to the approval by the United States Geological Survey and the Oil Conservation Commission.

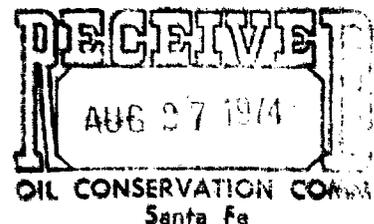
We are handing the Oil Conservation Commission the eight (8) copies for their approval, after they approve, two (2) copies should be returned to the Commissioner of Public Lands, one (1) copy should be retained by them, five (5) copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for their approval and further handling. After this application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s  
cc:

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



# El Paso Natural Gas Company

El Paso, Texas 79978

August 22, 1974

299

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

Re: Rincon Unit I Sec. No. 916,  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
SECOND EXPANDED PARTICIPATING AREA,  
Chacra Formation, Effective April 1,  
1974

---

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the Second Expanded Participating Area of the Chacra Formation for the referenced Unit.

If this Application meets with your approval, please execute all copies and forward them to the Oil Conservation Commission for its approval and execution. After this Application has been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two (2) copies for his file and the Oil Conservation Commission should retain one (1) copy for its file, and five (5) copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for its approval and further handling. After this Application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso.

Yours very truly,



James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:RGC:lj  
Enclosures  
Rincon Unit 4.5

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

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

COPY

# El Paso Natural Gas Company

El Paso, Texas 79978

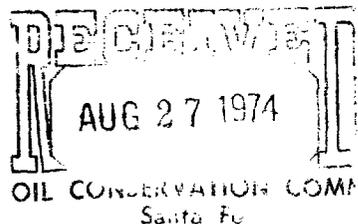
August 22, 1974

RECEIVED  
AUG 26 8 51 AM '74  
STATE LAND OFFICE  
SANTA FE, N.M.

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  
SECOND EXPANDED PARTICIPATING AREA,  
Chacra Formation, Effective April 1,  
1974

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 Second Expanded Participating Area for the Chacra Formation, to wit:

SECOND EXPANDED PARTICIPATING AREA - Effective April 1, 1974

| <u>Description of Lands</u>  | <u>Acres</u> |
|--|--------------|
| <u>Township 27 North, Range 7 West, N.M.P.M.</u><br>Section 33: SW/4 | 160.00       |

This proposed Second Expanded Participating Area for the Chacra Formation is predicated upon the determination by El Paso Natural Gas Company,

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

as Unit Operator, that the Rincon Unit #200 Chacra Well is capable of producing unitized substances in paying quantities from the Chacra Formation. This well is as follows:

The Rincon Unit #200 Well, located 1651' from the South line and 1500' from the West line of Section 33, Township 27 North, Range 7 West, N.M.P.M., was spudded on November 21, 1973, and completed on December 15, 1973 at a total depth of 4164'. The Chacra Formation in the intervals between 3956'-3970' was treated with a sand-water fracturing process on March 22, 1974. The well was shut-in on April 5, 1974, and after being shut-in for eleven (11) days the Chacra Formation was tested on April 16, 1974, and after a three-hour blow-down period the well gauged 838 MCF/D through a 3/4" choke and 844 MCF/D by the calculated absolute open-flow method, with an SIPC of 1001 psia.

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 proposed Second Expanded Participating Area of the Chacra Formation within the Rincon Unit.

EXHIBIT "B"

Geological Report on the Second Expanded Participating Area of the Chacra Formation within the Rincon Unit.

EXHIBIT "C"

Plate No. 1: Rincon Chacra Structure Map

Attached hereto is Schedule III showing the proposed Second 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.

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

If this Second 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  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:RGC:lj  
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: Alex Shinnings  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Commission

DATE: August 27, 1974

APPROVED: A. L. Patten, Jr.  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey  
and the Commissioner of Public Lands

DATE: August 28, 1974

The foregoing approvals are for the Rincon Unit I Sec. No. 916, Rio Arriba County, New Mexico, Second Expanded Participating Area, Chacra Formation, Effective April 1, 1974.

RINCOFF UNIT  
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Tenneco Oil Company

Mr. J. Leam Turner

The Wisconsin Oil Company

ILLEGIBLE

SCHEDULE III  
 SECOND EXPANDED PARTICIPATING AREA FOR THE CHACRA FORMATION  
 RINCON UNIT AREA

| SERIAL NUMBER   | DESCRIPTION   | NUMBER OF ACRES | DRILLING BLOCK |              | PRESENT ACTUAL PARTICIPATION |
|-----------------|---------------|-----------------|----------------|--------------|------------------------------|
|                 |               |                 | OWNERSHIP      | PERCENTAGE   |                              |
| 079160          | T-26-N, R-7-W | 320.00          |                |              | <u>66.666667%</u>            |
|                 | Sec. 11: NW/4 |                 |                | 12.50%       |                              |
|                 | Sec. 12: NW/4 |                 |                | 82.50%       |                              |
|                 |               |                 |                | <u>5.00%</u> |                              |
|                 |               | TOTAL           | <u>100.00%</u> |              |                              |
| <u>TRACT 2</u>  |               |                 |                |              |                              |
| 080213          | T-27-N, R-7-W | 160.00          |                |              | <u>33.333333%</u>            |
|                 | Sec. 33: SW/4 |                 |                | 12.50%       |                              |
|                 |               |                 |                | 82.50%       |                              |
|                 |               |                 |                | <u>5.00%</u> |                              |
|                 |               | TOTAL           | <u>100.00%</u> |              |                              |
| <u>TRACT 18</u> |               |                 |                |              |                              |

Effective April 1, 1974

SCHEDULE III  
SECOND EXPANDED PARTICIPATING AREA FOR THE CHACRA FORMATION  
RINCON UNIT AREA

RECAPITULATION:

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 33: SW/4

Total number of acres in Participating Area: 480.00

Total number of acres committed to Participating Area: 480.00

Percent of Basic Royalty Committed: 100.00%

Percent of Working Interest Committed: 100.00%

Percent of ORRI Committed: 100.00%

# El Paso Natural Gas Company

211

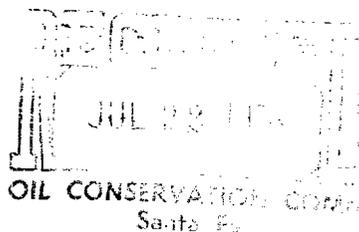
El Paso, Texas 79978

July 17, 1974

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 87501



Re: Rincon Unit Area I Sec. No. 916  
NOTICE OF COMPLETION OF ADDITIONAL  
WELLS, Dakota Formation

Gentlemen:

Pursuant to Section 11 of the Rincon Unit Agreement, I Sec. No. 916, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, determined on the test dates indicated that two (2) additional wells capable of producing unitized substances in paying quantities from the Dakota Formation, have been completed upon acreage committed to this unit.

These wells are as follows:

The Rincon Unit #201 Well, located 1690' from the North line and 1725' from the East line of Section 2, Township 26 North, Range 7 West, N.M.P.M., was spudded on November 6, 1973, and completed on January 9, 1974, at a total depth of 7580'. The Dakota Formation at the intervals 7267', 7366', 7391', 7412', 7430', 7450', was treated with a sand-water fracturing process on January 5, 1974. The well was shut-in on January 4, 1974 and after being shut-in for eighteen (18) days the Dakota Formation was tested on January 22, 1974, and after a three-hour blow-down period the well gauged 3027 MCF/D through a 3/4" choke and 3236 MCF/D by the calculated absolute open-flow method, with an SIPC of 2403 psia and an SIPT of 1600 psia. The spacing unit for this well is described as the E/2 of Section 2, Township 26 North, Range 7 West, containing 320.76 acres.

United States Geological Survey  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Two

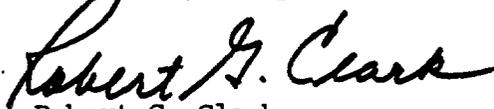
This drilling block was included in the Rincon Unit 14th Expanded Participating Area for the Dakota Formation, effective January 1, 1974. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

The Rincon Unit #202 Well, located 800' from the North line and 800' from the East line of Section 27, Township 27 North, Range 7 West, N.M.P.M., was spudded on December 21, 1973, and completed on January 15, 1974, at a total depth of 7675'. The Dakota Formation at the intervals 7405', 7408', 7482', 7514', 7516', 7542', 7567', and 7570' was treated with a sand-water fracturing process on January 21, 1974. The well was shut-in on January 25, 1974, and after being shut-in for twelve (12) days the Dakota Formation was tested on February 6, 1974, and after a three-hour blow-down period the well gauged 2685 MCF/D through a 3/4" choke and 2832 MCF/D by the calculated absolute open-flow method, with an SIPC of 2482 psia and an SIPT of 2432 psia. The spacing unit for this well is described as the E/2 of Section 27, Township 27 North, Range 7 West, containing 320.00 acres.

This drilling block was included in the Rincon Unit 14th Expanded Participating Area for the Dakota Formation, effective January 1, 1974. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,



Robert G. Clark  
Landman  
Land Department  
Energy Resource Development

RGC:sn  
Rincon 4.3.1  
Attachment

Rincon Unit  
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Tenneco Oil Company

Mr. J. Glenn Turner

The Wiser Oil Company

# El Paso Natural Gas Company

El Paso, Texas 79978

July 11, 1974

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



Re: Rincon Unit  
Rio Arriba County, New Mexico  
APPROVAL OF THE FOURTEENTH  
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 | June 28, 1974 |
| Commissioner of Public Lands    | May 13, 1974  |
| Oil Conservation Commission     | May 22, 1974  |

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

Yours very truly,

Robert G. Clark  
Landman  
Land Department  
Energy Resource Development

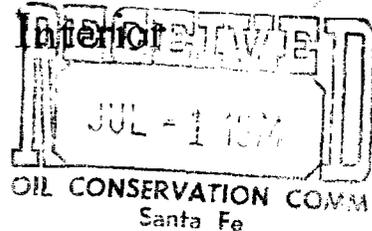
RGC:sn  
Rincon 4.3



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201



June 28, 1974

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

Gentlemen:

The fourteenth revision of the Dakota participating area for the Rincon unit agreement, Rio Arriba County, New Mexico, No. 1 sec. 916, was approved on June 28, 1974, by the Acting Area Oil and Gas Supervisor, U.S. Geological Survey, effective as of January 1, 1974. By such revision, the Dakota participating area is enlarged to 18,263.94 acres.

The fourteenth revision of the Dakota participating area proposes the E $\frac{1}{2}$  sec. 12, T. 26 N., R. 7 W., and E $\frac{1}{2}$  SW $\frac{1}{4}$  sec. 27., T. 27 N., R. 7 W., N.M.P.M., and is based on the completion of unit wells No. 134 in NE $\frac{1}{4}$  sec. 12 and No. 203 in SW $\frac{1}{4}$  sec. 27., in January 1974 as paying wells pursuant to the terms of the unit agreement.

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

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Area Oil & Gas Supervisor

cc:  
BLM, Santa Fe (ltr. only)  
Durango (w/cy of appln.)  
NMOCC, Santa Fe (ltr. only)✓  
Com. Pub. Lands, Santa Fe (ltr. only)

JMonro:td

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

May 22, 1974

*Jim*  
*299*

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

Attention: Mr. James R. Fermenter

Re: Fourteenth Expanded Dakota  
Participating Area, Rincon  
Unit, Rio Arriba County,  
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Fourteenth Expanded Participating Area of the Dakota Formation for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the application are being forwarded to the United States Geological Survey, Roswell, and two approved copies returned to the Commissioner of Public Lands.

Very truly yours,

ILLEGIBLE I

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey  
box 1857  
Roswell, New Mexico

Commissioner of Public Lands  
Land Office Building  
Santa Fe, New Mexico

C  
O  
P  
Y

# State of New Mexico

TELEPHONE  
505-827-2748



## Commissioner of Public Lands

May 13, 1974

ALEX J. ARMIJO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

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

Re: Rincon Unit  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
FOURTEENTH EXPANDED PARTICIPATING  
AREA, Dakota Formation, Effective  
January 1, 1974

ATTENTION: Mr. James R. Parmenter

Gentlemen:

The Commissioner of Public Lands has this date approved your Fourteenth Expanded Participating Area for the Dakota Formation, for the Rincon Unit, Rio Arriba County, New Mexico. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are handing the Oil Conservation Commission the eight (8) copies for their approval, after they approve, two (2) copies should be returned to the Commissioner of Public Lands, one (1) copy should be retained by them, five (5) copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for its approval and further handling. After this application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso.

Please remit an eight (\$8.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s  
cc:

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

El Paso Natural Gas Company

277

El Paso, Texas 79999  
May 7, 1974

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

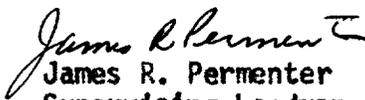
Re: Rincon Unit, I Sec. 916  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
FOURTEENTH EXPANDED PARTICIPATING  
AREA, Dakota Formation, Effective  
January 1, 1974

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the Fourteenth Expanded Participating Area of the Dakota Formation for the referenced Unit.

If this Application meets with your approval, please execute all copies and forward them to the Oil Conservation Commission for its approval and execution. After this Application has been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two (2) copies for his file and the Oil Conservation Commission should retain one (1) copy for its file, and five (5) copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for its approval and further handling. After this Application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso.

Yours very truly,

  
James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JP:AA:mcv  
Enclosures

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

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

COPY

# El Paso Natural Gas Company

El Paso, Texas 79978

May 7, 1974

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 87501

Re: Rincon Unit, I Sec. 916  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
FOURTEENTH EXPANDED PARTICIPATING  
AREA, Dakota Formation, Effective  
January 1, 1974

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 Fourteenth Expanded Participating Area for the Dakota Formation, to wit:

FOURTEENTH EXPANDED PARTICIPATING AREA - Effective January 1, 1974

| <u>Description of Lands</u>   | <u>Acres</u>  |
|---|---------------|
| <u>Township 26 North, Range 7 West, N.M.P.M.</u><br>Section 12: E/2       | 320.00        |
| <u>Township 27 North, Range 7 West, N.M.P.M.</u><br>Section 27: E/2, SW/4 | <u>480.00</u> |
| TOTAL   | 800.00        |

The proposed Fourteenth Expanded Participating Area of the Dakota Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the following wells are capable of producing unitized substances in paying quantities from the Dakota Formation:

The Rincon Unit #134 well, located 1100' from the North line and 1840' from the East line of Section 12, Township 26 North, Range 7 West, N.M.P.M., was spudded on October 12, 1973, and completed on November 16, 1973, at a total depth of 7378'. The Dakota Formation in the intervals of 7038', 7136', 7138', 7188', 7190', 7210', 7258', 7277', was treated with a sand-water fracturing process on November 14, 1973. The well was shut-in on December 21, 1973, and after being shut-in for forty (40) days the Dakota Formation was tested on January 30, 1974, and after a three-hour blow-down period the well gauged 2330 MCF/D through a 3/4" choke and 2682 MCF/D by the calculated absolute open-flow method, with an SIPC of 2402 psia and an SIPT of 2402 psia.

The Rincon Unit Com #203 well, located 990' from the South line and 890' from the West line of Section 27, Township 27 North, Range 7 West, N.M.P.M., was spudded on November 29, 1973, and completed on January 14, 1974, at a total depth of 7573'. The Dakota Formation in the intervals of 7344', 7347', 7448', 7451', 7475', 7487', 7509', 7527', 7547', was treated with a sand-water fracturing process on January 11, 1974. The well was shut-in on January 15, 1974, and after being shut-in for nine (9) days the Dakota Formation was tested on January 24, 1974, and after a three-hour blow-down period the well gauged 4805 MCF/D through a 3/4" choke and 5528 MCF/D by the calculated absolute open-flow method, with an SIPC of 2466 psia and an SIPT of 1870 psia.

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 Fourteenth Expanded Participating Area of the Dakota Formation within the Rincon Unit.

EXHIBIT "B"

Geological Report on the Fourteenth 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 XV that shows the proposed Fourteenth 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 percentage of ownership in each tract.

If this Fourteenth 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.

Yours very truly,



James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:AA:sn  
Enclosures  
Rincon Unit, 4.3

cc: Mr. Antonio Martinez, Executive Director  
New Mexico Oil & 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: Alfred J. Hennings  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Commission

DATE: May 13, 1974

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

DATE: May 22, 1974

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

RINCON UNIT I  
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Tenneco Oil Company

Mr. J. Glenn Turner

The Wiser Oil Company

# El Paso Natural Gas Company

El Paso, Texas 79978

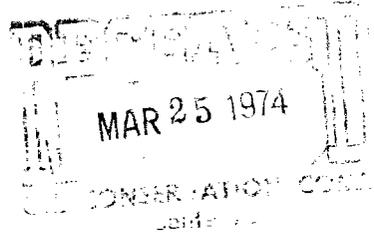
March 21, 1974

299

Regional Oil and 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 87501



Re: Rincon Unit Area, I Sec. No. 916  
NOTICE OF COMPLETION OF ADDITIONAL  
WELLS, PICTURED CLIFFS FORMATION

Gentlemen:

Pursuant to Section 11 of the Rincon Unit Agreement, I Sec. No. 916, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, determined on the test dates indicated that eight (8) additional wells capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation, has been completed upon acreage committed to this unit.

These wells are as follows:

The Rincon Unit #142 Well, located 1650' from the South line and 1040' from the East line of Section 27, Township 27 North, Range 6 West, N.M.P.M., was spudded on September 27, 1973, and completed on November 15, 1973, at a total depth of 3318'. The Pictured Cliffs Formation in the intervals between 3198'-3216', 3228'-3236', 3246'-3254', was treated with a sand-water fracturing process on November 15, 1973. The well was shut-in on November 27, 1973, and after being shut-in for eight (8) days the Pictured Cliffs Formation was tested on December 6, 1973, and after a three-hour blow-down period the well gauged 1981 MCF/D through a 3/4" choke and 2048 MCF/D by the calculated absolute open-flow method, with a SIPC of 1075 psia. The spacing unit for this well is described as the SE/4 of Section 27, Township 27 North, Range 6 West, containing 160.00 acres.

This drilling block was included in the Rincon Unit 8th Expanded Participating Area for the Pictured Cliffs Formation, effective September 1, 1955. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The Rincon Unit #148 well, located 1140' from the North line and 990' from the West line of Section 23, Township 27 North, Range 6 West, N.M.P.M., was spudded on October 3, 1973, and completed on November 19, 1973, at a total depth of 3319'. The Pictured Cliffs Formation in the intervals between 3178'-3186', 3196'-3204', 3214'-3228', was treated with a sand-water fracturing process on November 19, 1973. The well was shut-in on December 5, 1973, and after being shut-in for eight (8) days the Pictured Cliffs Formation was tested on December 13, 1973, and after a three-hour blow-down period the well gauged 1176 MCF/D through a 3/4" choke and 1191 MCF/D by the calculated absolute open-flow method, with an SIPC of 1031 psia. The spacing unit for this well is described as the NW/4 of Section 23, Township 27 North, Range 6 West, containing 160.00 acres.

This drilling block was included in the Rincon Unit 8th Expanded Participating Area for the Pictured Cliffs Formation, effective September 1, 1955. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The Rincon Unit #194 well, located 1850' from the North line and 1650' from the East line of Section 16, Township 27 North, Range 6 West, N.M.P.M., was spudded on October 9, 1973, and completed on November 19, 1973, at a total depth of 3341'. The Pictured Cliffs Formation in the intervals of 3194'-3214', 3224'-3240', was treated with a sand-water fracturing process on November 19, 1973. The well was shut-in on December 5, 1973, and after being shut-in for eight (8) days the Pictured Cliffs Formation was tested on December 13, 1973, and after a three-hour blow-down period the well gauged 1668 MCF/D through a 3/4" choke and 1712 MCF/D by the calculated absolute open-flow method, with an SIPC of 1044 psia. The spacing unit for this well is described as the NE/4 of Section 16, Township 27 North, Range 6 West, containing 160.00 acres.

This drilling block was included in the Rincon Unit 8th Expanded Participating Area for the Pictured Cliffs Formation, effective September 1, 1955. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The Rincon Unit #195 well, located 1460' from the North line and 1750' from the East line of Section 19, Township 27 North, Range 6 West, N.M.P.M., was spudded on October 14, 1973, and completed on November 30, 1973, at a total depth of 3193'. The Pictured Cliffs Formation in the intervals between 3040'-3066', 3100'-3114', was treated with a sand-water fracturing process on November 30, 1973. The well was shut-in on December 5, 1973, and after being shut-in for eight (8) days the Pictured Cliffs Formation was tested on December 13, 1973, and after a three-hour blow-down period the well gauged 1699 MCF/D through a 3/4" choke and 1742 MCF/D by the calculated absolute open-flow method, with an SIPC of 1054 psia. The spacing unit for this well is described as the NE/4 of Section 19, Township 27 North, Range 6 West, containing 160.00 acres.

This drilling block was included in the Rincon Unit 5th Expanded Participating Area for the Pictured Cliffs Formation, effective June 1, 1954. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The Rincon Unit #196 well, located 1650' from the South line and 1650' from the West line of Section 26, Township 27 North, Range 6 West, N.M.P.M., was spudded on September 22, 1973, and completed on November 15, 1973, at a total depth of 3368'. The Pictured Cliffs Formation in the intervals between 3266'-3286', 3296'-3304', was treated with a sand-water fracturing process on November 15, 1973. The well was shut-in on November 20, 1973, and after being shut-in for thirteen (13) days the Pictured Cliffs Formation was tested on December 3, 1973, and after a three-hour blow-down period the well gauged 3507 MCF/D through a 3/4" choke and 3917 MCF/D by the calculated absolute open-flow method, with an SIPC of 1071 psia. The spacing unit for this well is described as the SW/4 of Section 26, Township 27 North, Range 6 West, containing 160.00 acres.

This drilling block was included in the Rincon Unit 8th Expanded Participating Area for the Pictured Cliffs Formation, effective September 1, 1955. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The Rincon Unit #197 well, located 1460' from the South line and 1760' from the West line of Section 28, Township 27 North, Range 6 West, N.M.P.M., was spudded on August 24, 1973, and completed on November 12, 1973, at a total depth of 3305'. The Pictured Cliffs Formation in the intervals between 3202'-3226', 3244'-3260', was treated with a sand-water fracturing process on November 12, 1973.

The well was shut-in on November 23, 1973, and after being shut-in for ten (10) days the Pictured Cliffs Formation was tested on December 3, 1973, and after a three-hour blow-down period the well gauged 1398 MCF/D through a 3/4" choke and 1419 MCF/D by the calculated absolute open-flow method, with an SIPC of 1106 psia. The spacing unit for this well is described as the SW/4 of Section 28, Township 27 North, Range 6 West, containing 160.00 acres.

This drilling block was included in the Rincon Unit 8th Expanded Participating Area for the Pictured Cliffs Formation, effective September 1, 1955. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The Rincon Unit #198 well, located 1180' from the North line and 800' from the East line of Section 32, Township 27 North, Range 6 West, N.M.P.M., was spudded on August 14, 1973, and completed on November 12, 1973, at a total depth of 3275'. The Pictured Cliffs Formation in the intervals between 3156'-3168', 3196'-3208', 3218'-3226', was treated with a sand-water fracturing process on November 12, 1973. The well was shut-in on December 5, 1973, and after being shut-in for eight (8) days the Pictured Cliffs Formation was tested on December 13, 1973, and after a three-hour blow-down period the well gauged 1647 MCF/D through a 3/4" choke and 1689 MCF/D by the calculated absolute open-flow method, with an SIPC of 1021 psia. The spacing unit for this well is described as the NE/4 of Section 32, Township 27 North, Range 6 West, containing 160.00 acres.

This drilling block was included in the Rincon Unit 5th Expanded Participating Area for the Pictured Cliffs Formation, effective June 1, 1954. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The Rincon Unit #199 well, located 1000' from the South line and 1480' from the East line of Section 14, Township 27 North, Range 7 West, N.M.P.M., was spudded on October 19, 1973, and completed on November 30, 1973, at a total depth of 3395'. The Pictured Cliffs Formation in the intervals between 3234'-3244', 3270'-3290', was treated with a sand-water fracturing process on November 30, 1973. The well was shut-in on December 7, 1973, and after being shut-in for seven (7) days the Pictured Cliffs Formation was tested on December 14, 1973, and after a three-hour blow-down period the well gauged 1214 MCF/D through a 3/4" choke and 1237 MCF/D by the calculated absolute open-flow method, with an SIPC of 919 psia. The spacing unit for this well is described as the SE/4 of Section 14, Township 27 North, Range 7 West, containing 147.16 acres.

United States Geological Survey  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Five

This drilling block was included in the Rincon Unit 5th Expanded Participating Area for the Pictured Cliffs Formation, effective June 1, 1954. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

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

Yours very truly,

  
James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:AA:sn  
Attachment



# United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

May 23, 1973

In Reply Refer To:  
Gillham/Engr.

El Paso Natural Gas Company  
Attention: Mr. D. N. Canfield  
P.O. Box 1492  
El Paso, Texas 79978

Gentlemen:

Two approved copies of your 1973 plan of development for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of one Chacra well, eight Pictured Cliffs wells and four Dakota wells, are enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(Orig. signed by Carl C. Traywick)

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

cc:  
Washington (thru Denver) (w/cy plan)  
Durango (w/cy plan)  
✓ NMOCC, Santa Fe (ltr only)  
Com. Pub. Lands, Santa Fe (ltr only)

JAGillham:ds

State of New Mexico

TELEPHONE  
505-827-2748



Commissioner of Public Lands

ALEX J. ARMIJO  
COMMISSIONER

May 24, 1973

P. O. BOX 1148  
SANTA FE, NEW MEXICO

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Rincon Unit  
Rio Arriba County, New Mexico  
1973 DRILLING PROGRAM

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1973 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, this program calls for the drilling of one Chacra well, eight Pictured Cliffs wells and four Dakota wells. This plan has been approved by the United States Geological Survey and the New Mexico Oil Conservation Commission.

One approved copy of the plan is enclosed.

Please remit a three (\$3.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s  
encl.  
cc:

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

May 18, 1973

El Paso Natural Gas Company  
Box 1492  
El Paso, Texas 79978

Re: 1973 Drilling Program  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1973 providing for the drilling of thirteen wells for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe

RINCON UNIT  
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Tenneco Oil Company

Mr. J. Glenn Turner

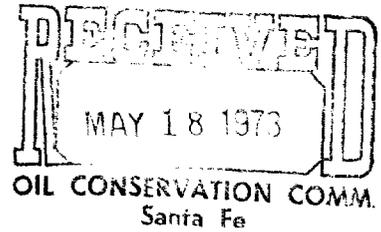
The Wiser Oil Company

# El Paso Natural Gas Company

El Paso, Texas 79978

May 14, 1973

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. No. 916  
Rio Arriba County, New Mexico  
1973 DRILLING PROGRAM

Gentlemen:

By letter dated March 20, 1972, El Paso Natural Gas Company as Unit Operator, filed a Drilling Program for the captioned Unit for the calendar year 1972. Said program provided for the drilling of one (1) Pictured Cliffs well, one (1) Chacra well and two (2) Dakota wells. The #190 Pictured Cliffs well was completed on acreage lying within the existing Pictured Cliffs participating area. The #191 Chacra well occasioned the first expansion of the Chacra Participating area. The #192 and #193 Dakota wells were completed upon acreage lying within the existing Dakota participating area and caused no further expansion of the Dakota participating area.

As of this date, the total number of wells drilled in the Rincon Unit on acreage committed to the Unit is as follows:

|                                 |    |
|---------------------------------|----|
| Pictured Cliffs                 | 98 |
| Chacra                          | 2  |
| Mesaverde                       | 16 |
| Dual, Pictured Cliffs-Mesaverde | 8  |
| Dual, Mesaverde-Dakota          | 6  |
| Mesaverde, Non-Commercial       | 7  |
| Dakota                          | 40 |
| Gallup-Dakota (Gallup-Plugged)  |    |
| ( Dakota-Non-Commercial )       | 1  |
| Tocita ( Oil )                  | 2  |

180

May 14, 1973

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of the following described wells during the calendar year 1973.

| <u>Location</u>   | <u>Formation</u> |
|---|------------------|
| Rincon Unit #134 Well<br>E/2 Sec. 12: T-26-N, R-7-W     | Dakota           |
| Rincon Unit #142 Well<br>SE/4 Sec. 27: T-27-N, R-6-W    | Pictured Cliffs  |
| Rincon Unit #148 Well<br>NW/4 Sec: 23: T-27-N, R-6-W    | Pictured Cliffs  |
| Rincon Unit #194 Well<br>NE/4 Sec. 16: T-27-N, R-6-W    | Pictured Cliffs  |
| Rincon Unit #195 Well<br>NE/4 Sec. 19: T-27-N, R-6-W    | Pictured Cliffs  |
| Rincon Unit #196 Well<br>SW/4 Sec. 26: T-27-N, R-6-W    | Pictured Cliffs  |
| Rincon Unit #197 Well<br>SW/4 Sec. 28: T-27-N, R-6-W    | Pictured Cliffs  |
| Rincon Unit #198 Well<br>NE/4 Sec. 32: T-27-N, R-6-W    | Pictured Cliffs  |
| Rincon Unit #199 Well<br>SE/4 Sec. 14: T-27-N, R-7-W    | Pictured Cliffs  |
| Rincon Unit #200 Well<br>SW/4 Sec. 33: T-27-N, R-7-W    | Chacra           |
| Rincon Unit #201 Well<br>E/2 Sec. 2: T-26-N, R-7-W      | Dakota           |
| Rincon Unit #202 Well<br>E/2 Sec. 27: T-27-N, R-7-W     | Dakota           |
| Rincon Unit Com #203 Well<br>W/2 Sec. 27: T-27-N, R-7-W | Dakota           |

The #134 and #202 Dakota Wells will be located on spacing units outside the existing Dakota Participating Area in order that the present limits of the Participating Area may be extended. The Com #203 Dakota Well

May 14, 1973

is located on a spacing unit which includes acreage committed to both the Rincon Unit and San Juan 28-7 Unit. The #142,148, 194-199 Cliffs wells will be completed within the existing Pictured Cliffs Participating Area. Chacra Well #200 will be located on a drilling block outside the existing Chacra Participating Area in order to extend the limits of the Chacra Participating Area.

All working interest owners have been contacted and this Drilling Program reflects the desires of a majority of such owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Yours very truly,



D. N. Canfield  
Manager  
Land Department  
Energy Resource Development

DNC:AA:mm

Enclosures  
Rincon Unit

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

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

APPROVED: A. L. Carter, Jr. DATE May 18, 1973  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
The Commissioner of Public Lands

The foregoing approvals are for the 1973 Drilling Program for the  
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

*El Paso Natural Gas Company*

*El Paso, Texas* 79999

January 31, 1973

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 87501

Re: Rincon Unit I Sec. No. 916,  
Rio Arriba County, New Mexico  
FIRST EXPANDED PARTICIPATING AREA,  
Chacra Formation, Effective  
August 1, 1972

Gentlemen:

The captioned Expansion was approved by the Regulatory Bodies on the dates indicated:

|                                 |   |                  |
|---------------------------------|---|------------------|
| United States Geological Survey | - | January 16, 1973 |
| Commissioner of Public Lands    | - | January 5, 1973  |
| Oil Conservation Commission     | - | January 5, 1973  |

Copies of this letter are being furnished to the working interest owners of the above-described Unit.

Yours very truly,

*Charles T. Richardson*

Charles T. Richardson  
Senior Landman  
Land Department  
Energy Resource Development

CTR:dks  
Rincon Unit 4.5

cc: Mrs. Pepita O. Jeffus,  
Executive Director, **COPY**  
New Mexico Oil & Gas Accounting Commission



# United States Department of the Interior

## GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

January 16, 1973

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. James R. Permenter

Gentlemen:

Your application of December 28, 1972, requesting approval of the first revision of the Chacra participating area for the Rincon Unit I Sec. No. 916 unit agreement, Rio Arriba County, New Mexico, was approved on January 16, 1973, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of August 1, 1972.

The first revision adds 160 acres described as the NW $\frac{1}{4}$  sec. 11, T. 26 N., R. 7 W., N.M.P.M., which enlarges the Chacra participating area to 320 acres. Such revision is based on the completion data of the following unit well.

| <u>Well No.</u> | <u>Location</u><br>26 N., 7 W. | <u>Completion Date</u> | <u>Chacra Interval</u> | <u>CAOF</u><br><u>MCFD</u> |
|-----------------|--------------------------------|------------------------|------------------------|----------------------------|
| 191             | NW $\frac{1}{4}$ sec. 11       | 8-24-72                | 3,786 to 3,884         | 1,485                      |

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

Sincerely yours,

(ORIG. SGN) 101

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

cc:  
Washington (w/cy appln.)  
Durango (w/cy appln.)  
BLM, Santa Fe (ltr. only)  
NMOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)  
File (w/cy appln.)

JFisher:lh

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

*Jim*

January 5, 1973

299

El Paso Natural Gas Company  
Box 1492  
El Paso, Texas 79999

Attention: Mr. James R. Permenter

Re: First Expanded Chacra  
Participating Area,  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the First Expanded Participating Area for the Chacra Formation for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the application are being forwarded to the United States Geological Survey and two approved copies are being returned to the Commissioner of Public Lands.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe

# State of New Mexico

TELEPHONE  
505-827-2748



## Commissioner of Public Lands

January 5, 1973

ALEX J. ARMIJO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79973

Re: Rincon Unit  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
FIRST EXPANDED PARTICIPATING AREA,  
CHACRA FORMATION, Effective  
August 1, 1972

ATTENTION: Mr. James A. Fermenter

Gentlemen:

The Commissioner of Public Lands has this date approved your First Expanded Participating Area, Chacra Formation, for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are handing the Oil Conservation Commission the eight (8) copies for their approval, after they approve, two (2) copies should be returned to the Commissioner of Public Lands, one (1) copy should be retained by them, five (5) copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for its approval and further handling. After this application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso.

Please remit an eight (\$8.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s  
cc:

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

El Paso Natural Gas Company

277

El Paso, Texas 79978

December 28, 1972

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



Re: Rincon Unit I. Sec. No. 916,  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
FIRST EXPANDED PARTICIPATING AREA,  
CHACRA FORMATION, Effective  
August 1, 1972

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the First Expanded Participating Area for the Chacra Formation for the referenced Unit.

If this Application meets with your approval, please execute all copies and forward them to the Oil Conservation Commission for its approval and execution. After this Application has been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two (2) copies for his file and the Oil Conservation Commission should retain one (1) copy for its file, and five (5) copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for its approval and further handling. After this Application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso.

Yours very truly,

*James R. Permenter*

James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:CTR:nja  
Enclosures  
Rincon 4.5

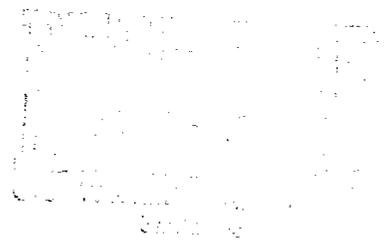
cc: Regional Oil & Gas Supervisor  
United States Geological Survey

Oil Conservation Commission  
State of New Mexico

# El Paso Natural Gas Company

El Paso, Texas 79999

December 28, 1972



DEC 28 1972

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  
FIRST EXPANDED PARTICIPATING AREA,  
CHACRA FORMATION, Effective  
August 1, 1972

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 First Expanded Participating Area for the Chacra Formation, to wit:

FIRST EXPANDED PARTICIPATING AREA - Effective August 1, 1972

| <u>Description of Lands</u>  | <u>Acres</u> |
|--|--------------|
| <u>Township 26 North, Range 7 West, N.M.P.M.</u><br>Section 11: NW/4 | 160.00       |

December 28, 1972

This proposed First 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 #191 Chacra Well is capable of producing unitized substances in paying quantities from the Chacra Formation. This well is as follows:

The Rincon Unit #191 Well is located 1460' from the North line and 800' from the West line of Section 11, Township 26 North, Range 7 West, N.M.P.M., Rio Arriba County, New Mexico. Said well was spudded on May 22, 1972, and completed on May 29, 1972 at a total depth of 3978'. The Chacra Formation in the intervals between 3786'-3798' and 3872'-3884' was treated with a sand-water fracturing process on July 21, 1972. The Chacra Formation was shut-in on July 29, 1972, and after being shut-in for twenty-six (26) days, the Chacra Formation was tested on August 24, 1972, and following a three (3) hour blow-down period, gauged 1458 MCFGPD through a 3/4" choke and 1485 MCFGPD by the calculated absolute open-flow method, with an SIPC of 1029 psia (no tubing).

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 proposed First Expanded Participating Area of the Chacra Formation within the Rincon Unit.

EXHIBIT "B"

Geological Report on the First Expanded Participating Area of the Chacra Formation within the Rincon Unit.

EXHIBIT "C"

Plate No. 1: Rincon Chacra Structure Map

Attached hereto is Schedule II showing the proposed First 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.

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

December 28, 1972

If this First 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  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:lj  
Enclosures  
Rincon Unit, Chacra Formation 4.5

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission  
Post Office Box 2308  
Santa Fe, New Mexico 87501

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

DATE: \_\_\_\_\_

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

DATE: January 5, 1973

APPROVED: A. L. Foster, Jr.  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
the Commissioner of Public Lands

DATE: January 5, 1973

The foregoing approvals are for the Rincon Unit I Sec. No. 916, Rio Arriba County, New Mexico, First Expanded Participating Area, Chacra Formation, Effective August 1, 1972.

RINCON UNIT  
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Tenneco Oil Company

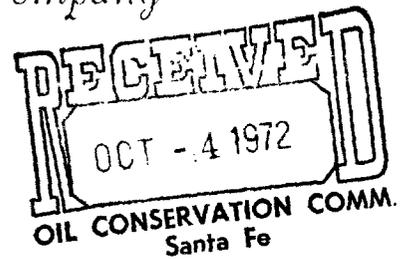
Mr. J. Glenn Turner

The Wiser Oil Company

# El Paso Natural Gas Company

El Paso, Texas 79999

September 27, 1972



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 87501

Re: Rincon Unit Area, 1 Sec. No. 916  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11 of the Rincon Unit Agreement, 1 Sec. No. 916, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, has determined on the date indicated that one (1) additional well capable of producing unitized substances in commercial quantities from the Pictured Cliffs formation has been completed upon acreage committed to the subject Unit. This well is as follows:

The Rincon Unit #190 Well, located 850' from the North line and 1550' from the East line of Section 17, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on May 17, 1972 and completed in the Pictured Cliffs formation on May 22, 1972 at a total depth of 3314'. The Pictured Cliffs formation from 3166'-3176', 3185'-3195 was treated with a sand-water fracturing process on July 21, 1972. The well was completed as a tubeless completion, and after being shut-in on July 25, 1972 for seventeen (17) days, the Pictured Cliffs formation was tested on August 11, 1972, and following a three (3) hour blow-down period gauged 1883 MCFGPD through a 3/4" choke and 1939 MCFGPD by the calculated absolute open flow method, with an SIPC of 1094 psia. The committed drilling block

**ILLEGIBLE**

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

September 27, 1972

upon which this well is located is described as the NE/4 of Section 17, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 160.00 acres, more or less.

The acreage upon which the Rincon Unit #190 Well is located was included in the Seventh Expanded Participating Area for the Pictured Cliffs formation effective July 1, 1955, and the completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area, since the participating area now covers the total Unit area.

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

Yours very truly,



James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:CTR:lj  
Rincon Unit 4.1  
NM 1018-U

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501

RINCON UNIT  
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Tenneco Oil Company

Mr. J. Glenn Turner

The Wiser Oil Company

# El Paso Natural Gas Company

El Paso, Texas 79978

August 11, 1972

279

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 87501

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11 of the Rincon Unit Agreement I Sec. No. 916, El Paso Natural Gas Company, as Unit Operator, has determined on the date indicated that one (1) additional well capable of producing unitized substances in commercial quantities from the Dakota formation has been completed upon acreage committed to the subject Unit. This well is as follows:

The Rincon Unit #193 Well, located 1650' from the South line and 1650' from the West line of Section 35, Township 27 North, Range 7 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on June 14, 1972 and completed in the Dakota formation on July 4, 1972 at a total depth of 7558'. The Dakota formation from 7198'-7210', 7302'-7314', 7332'-7344', 7356'-7376', 7386'-7392', 7406'-7412' was treated with a sand-water fracturing process on July 3, 1972. The well was shut-in on July 4, 1972, and after being shut-in for seven (7) days, the Dakota formation was tested on July 11, 1972, and following a three (3) hour blow-down period gauged 4607 MCFGPD through a 3/4" choke and 5191 MCFGPD by the calculated absolute open-flow method, with an SIPT

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

August 11, 1972

of 2272 psia and an SIPC of 2391 psia. The committed spacing unit upon which this well is located is described as Lots 3, 4, 5, 6, 11, 12, 13, 14 (W/2) of Section 35, Township 27 North, Range 7 West, N.M.P.M., Rio Arriba County, New Mexico, containing 338.04 acres, more or less.

The acreage upon which the Rincon Unit #193 Well is located was included in the Thirteenth Expanded Participating Area for the Dakota formation effective September 1, 1969, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,

  
James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:CTR:lj  
Rincon Unit 4.3  
NM 4225

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas  
Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501

RINCON UNIT  
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Tenneco Oil Company

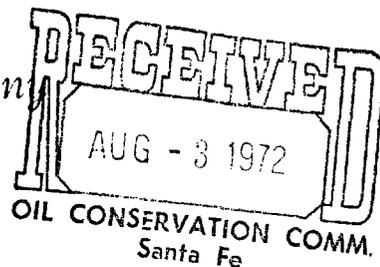
Mr. J. Glenn Turner

The Wiser Oil Company

# El Paso Natural Gas Company

El Paso, Texas 79978

August 1, 1972



217

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 87501

Re: Rincon Unit Area, I. Sec. No. 916  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11 of the Rincon Unit Agreement I. Sec. No. 916, El Paso Natural Gas Company, as Unit Operator, has determined on the date indicated that one (1) additional well capable of producing unitized substances in commercial quantities from the Dakota Formation has been completed upon acreage committed to the subject Unit. This well is as follows:

The Rincon Unit #192 Well, located 1700' from the South line and 1700' from the West line of Section 1, Township 26 North, Range 7 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on May 23, 1972 and completed in the Dakota Formation on June 13, 1972 at a total depth of 7384'. The Dakota Formation from 7048'-7060', 7144'-7156', 7174'-7182', 7200'-7208', 7232'-7240' was treated with a sand-water fracturing process on June 12, 1972. The well was shut-in on June 13, 1972 and after being shut-in for seven (7) days, the Dakota Formation was tested on June 20, 1972, and following a three (3) hour blow-down period gauged 3684 MCFGPD through a 3/4" choke and 3997 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2515 psia and an SIPC of 1862 psia. The

August 1, 1972

committed spacing unit upon which this well is located is described as W/2 Sec. 1, Township 26 North, Range 7 West, N.M.P.M., Rio Arriba County, New Mexico, containing 320.60 acres, more or less.

The acreage upon which the Rincon Unit #192 Well is located was included in the Thirteenth Expanded Participating Area for the Dakota Formation effective September 1, 1969, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,

  
James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:CTR:dks  
Rincon Unit 4.3  
NM-4208

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501

SAN JUAN 29-5 UNIT  
Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3)

Mr. Tom Bolack

General American Oil Company of Texas

Koch Industries, Inc.

Mrs. Catherine B. McElvain, Individually  
and as Executrix of the Estate of  
T. H. McElvain, Deceased

Mr. James E. McElvain, Executor for the  
Estate of Carl R. McElvain, Deceased

Mr. J. William McElvain

Mr. Forrest B. Miller and  
Mabelle M. Miller

Phillips Petroleum Company

Sun Oil Company - DX Division

Ruth M. Vaughan

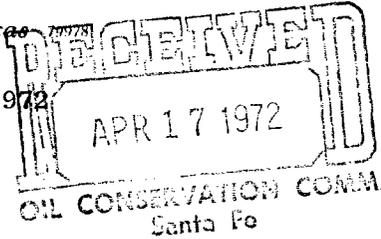
The Wiser Oil Company

El Paso Natural Gas Company

299

El Paso, Texas

April 14, 1972



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

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  
1972 DRILLING PROGRAM

Gentlemen:

The 1972 Drilling Program for the Rincon Unit dated March 20, 1972, was approved by the regulatory bodies on the following dates:

|                                 |   |                |
|---------------------------------|---|----------------|
| United States Geological Survey | - | April 11, 1972 |
| Commissioner of Public Lands    | - | March 23, 1972 |
| Oil Conservation Commission     | - | March 27, 1972 |

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

Yours very truly,

A handwritten signature in cursive script that reads "James R. Permenter".

James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

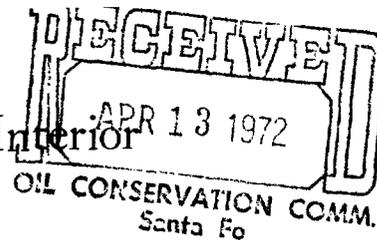
JRP:nja  
Rincon 3.0,  
4.1, 4.2, 4.3



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201



April 11, 1972

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

Attention: Mr. D. N. Canfield

Gentlemen:

Your <sup>1972</sup> (1971) plan of development for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of one Pictured Cliffs well, one Chacra well, and two Dakota wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

M. O. FREDERICK  
Regional Oil and Gas Supervisor

cc:  
Washington (w/cy plan)  
Durango (w/cy plan)  
✓ NMOCC, Santa Fe (ltr only)  
Com. Pub. Lands, Santa Fe (ltr only)

JWillock:ds

299

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 27, 1972

299

El Paso Natural Gas Company  
Box 1492  
El Paso, Texas 79978

Attention: Mr. D. N. Canfield

Re: 1972 Drilling Program  
Rincon Unit, Rio Arriba  
Rio Arriba County,  
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program providing for the drilling of four wells during the calendar year 1972 for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe

C  
O  
P  
Y

# El Paso Natural Gas Company

El Paso, Texas 79978

March 20, 1972

RECEIVED  
MAR 23 1972

CONSERVATION COMM.  
SANTA FE

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. No. 916  
Rio Arriba County, New Mexico  
1972 DRILLING PROGRAM

Gentlemen:

By letter dated January 8, 1971, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned Unit for the calendar year 1971. Said Program provided for the drilling of no wells during the 1971 calendar year, and none were drilled in the subject unit during the year.

As of this date, the total number of wells drilled in the Rincon Unit on acreage committed to the Unit is as follows:

|   |       |
|---|-------|
| Pictured Cliffs   | 97    |
| Chacra  | 1     |
| Mesaverde   | 16    |
| Dual, Pictured Cliffs-Mesaverde                           | 8     |
| Dual, Mesaverde-Dakota                                    | 6     |
| Mesaverde, Non-Commercial                                 | 7     |
| Dakota  | 38    |
| Gallup-Dakota (Gallup-Plugged)<br>(Dakota-Non-Commercial) | 1     |
| Tocita (Oil)  | 2     |
|   | <hr/> |
|   | 176   |

March 20, 1972

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of the following described wells during the calendar year 1972.

| <u>Location</u>  | <u>Formation</u> |
|--|------------------|
| Rincon Unit #190 Well<br>NE/4 Sec. 17, T-27-N, R-6-W                                     | Pictured Cliffs  |
| Rincon Unit #191 Well<br>NW/4 Sec. 11, T-26-N, R-7-W                                     | Chacra           |
| Rincon Unit #192 Well<br>Lots 3, 4, S/2 NW/4, SW/4 (W/2)<br>Sec. 1, T-26-N, R-7-W        | Dakota           |
| Rincon Unit #193 Well<br>Lots 3, 4, 5, 6, 11, 12, 13, 14 (W/2)<br>Sec. 35, T-27-N, R-7-W | Dakota           |

The #190 Pictured Cliffs development well will be drilled within the limits of the existing Pictured Cliffs Participating Area. Chacra Well #191 will be located on a drilling block outside the existing Chacra Participating Area in order that the present limits of the Participating Area may be extended. Dakota Wells #192 and #193 will also be drilled inside the existing Dakota Participating Area as development wells.

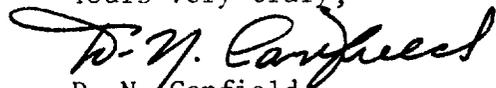
All working interest owners have been contacted and this Drilling Program reflects the desires of a majority of such owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Yours very truly,



D. N. Canfield  
Manager  
Land Department  
Energy Resource Development

DNC:CTR:khs  
Enclosures  
Rincon Unit 3.0,  
4.1, 4.2, 4.3

APPROVED: \_\_\_\_\_  
Regional Oil and 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: *A. H. Carter, Jr.*  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
the Commissioner of Public Lands

DATE: *March 27, 1972*

The foregoing approvals are for the 1972 Drilling Program for the 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

RECEIVED

MAR 27 1972

299

March 23, 1972

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Rincon Unit  
Rio Arriba County, New Mexico  
1972 DRILLING PROGRAM"

ATTENTION: Mr. D. H. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1972 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, which calls for the drilling of four additional wells during 1972. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the Drilling Program is enclosed.

Please remit a three- (33.00) Dollar filing fee.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s  
encl.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico ✓

# El Paso Natural Gas Company

El Paso, Texas 79999

April 16, 1971

APR 20 1971

277

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 87501

Re: 1971 DRILLING PROGRAMS  
Rio Arriba County,  
New Mexico

Gentlemen:

The 1971 Drilling Programs for the following Units were approved by the Regulatory Bodies on the dates indicated.

| <u>Unit</u>                          | <u>USGS</u> | <u>CPL</u>       | <u>OCC</u> |
|--------------------------------------|-------------|------------------|------------|
| Lindrith,<br>I Sec. No. 713          | 4-5-71      | 2-3-71           | 2-2-71     |
| Rincon,<br>I Sec. No. 916            | 4-5-71      | 1-20-71          | 1-15-71    |
| San Juan 30-4,<br>No. 14-08-001-1056 | 4-5-71      | None<br>Required | 1-13-71    |
| San Juan 31-6,<br>No. 14-08-001-464  | 4-5-71      | 1-12-71          | 1-14-71    |

Copies of this letter are being sent to the working interest owners of the above-described Unit.

Yours very truly,

*Charles T. Richardson*  
Charles T. Richardson  
Senior Landman  
Land Department

CTR:lj  
Lindrith, Rincon, S.J. 30-4,  
S.J. 31-6 Units - 3.0



971 JAN 21 PM 1 12

January 20, 1971

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Rincon Unit  
Rio Arriba County, New Mexico  
1971 DRILLING PROGRAM

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1971 Drilling program for the Rincon Unit, Rio Arriba County, New Mexico, which calls for the drilling of no additional wells during 1971. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

*One* approved copy of the Drilling Program is enclosed.

Please remit a Three (\$3.00) dollar filing fee.

Sincerely yours,

GORDON G. MARCUM, II, Director  
Oil and Gas Department

AJA/GEM/s  
encl.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 15, 1971

299

C  
O  
P  
Y  
El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1971 Drilling Program  
Rincon Unit  
Rio Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1971 providing for the drilling of no wells during the year for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

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

# El Paso Natural Gas Company

El Paso, Texas 79999

January 8, 1971

COPIED BY [unclear]

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 87501

Re: Rincon Unit I Sec. No. 916  
Rio Arriba County, New Mexico  
1971 DRILLING PROGRAM

Gentlemen:

By letter dated January 10, 1970, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned Unit for the calendar year 1970 providing for the drilling of one (1) Chacra well during the year. The Rincon Unit No. 189 Well was drilled during 1970 and occasioned the Initial Expansion of the Chacra Participating Area, which has been approved by the regulatory bodies.

With the completion of the above-referenced well, the total number of wells drilled in the Rincon Unit on acreage committed to the Unit is as follows:

|                                 |    |
|---------------------------------|----|
| Pictured Cliffs                 | 97 |
| Chacra                          | 1  |
| Mesaverde                       | 16 |
| Dual, Pictured Cliffs-Mesaverde | 8  |
| Dual, Mesaverde-Dakota          | 6  |

January 8, 1971

|   |          |
|---|----------|
| Mesaverde, Non-Commercial                                 | 7        |
| Dakota  | 38       |
| Gallup-Dakota (Gallup-Plugged)<br>(Dakota-Non-Commercial) | 1        |
| Tocita (Oil)  | <u>2</u> |
|   | 176      |

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1971 providing for the drilling of no wells during the year.

All working interest owners have been contacted and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Yours very truly,



T. W. Bittick  
Manager  
Land Department

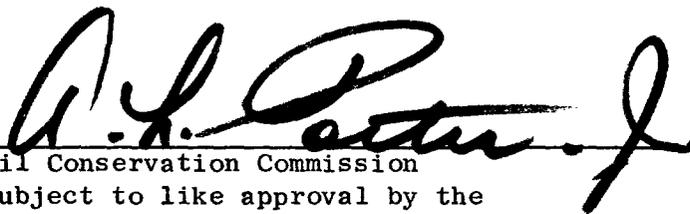
TWB:CTR:nja  
Enclosures  
Rincon Unit 3.0

APPROVED: \_\_\_\_\_  
Regional Oil and 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: 1-15-71

The foregoing approvals are for the 1971 Drilling Program for the Rincon Unit,  
I Sec. No. 916, Rio Arriba County, New Mexico.

RINCON UNIT  
Working Interest Owners

Continental Oil Company

El Paso Products Company

Southern Petroleum Exploration, Inc.

Tenneco Oil Company

Mr. J. Glenn Turner

# El Paso Natural Gas Company

El Paso, Texas 79999

August 11, 1970

1970 AUG 14 16

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 87501

Re: Rincon Unit, I Sec. No. 916,  
Rio Arriba County, New Mexico,  
APPLICATION FOR APPROVAL OF THE  
INITIAL PARTICIPATING AREA OF  
THE CHACRA FORMATION,  
Effective March 4, 1970

Gentlemen:

The Initial Participating Area for the referenced Unit was approved by the Regulatory Bodies on the dates indicated:

|                                 |                |
|---------------------------------|----------------|
| United States Geological Survey | August 7, 1970 |
| Commissioner of Public Lands    | June 4, 1970   |
| Oil Conservation Commission     | June 8, 1970   |

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

Yours very truly,



Charles Higgins  
Supervising Landman  
Land Department

CH:CTR:sf  
Rincon Unit, 4.5

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

1970 AUG 10 AM 8 10

IN REPLY REFER TO:

299

August 7, 1970

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. Charles Higgins

Gentlemen:

Your application for the initial "Chacra" (Lewis Shale) participating area for the Rincon unit agreement, I-Sec. No. 916, Rio Arriba County, New Mexico, was approved on August 7, 1970, by the Acting Oil and Gas Supervisor, Geological Survey, effective as of March 4, 1970.

The initial "Chacra" (Lewis Shale) participating area, consisting of 160 acres and described as the NW $\frac{1}{4}$  sec. 12, T. 26 N., R. 7 W., is based upon the completion of Rincon unit well No. 189. Such well is located in the NW $\frac{1}{4}$  sec. 12, T. 26 N., R. 7 W., and was completed on March 4, 1970 for an absolute open flow potential of 1,069 MCF of gas per day from the "Chacra" in the interval from 3,594 feet to 3,686 feet.

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

Sincerely yours,

(ORIG. SBD.) OF CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

cc:  
Washington (w/cy appln.)  
Durango (w/cy appln.)  
NMOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

June 8, 1970

299

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. Charles Higgins

Re: Initial Participating Area,  
Chacra formation, Rincon Unit,  
Rio Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Initial Participating Area, Chacra formation, for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the application are being forwarded to the United States Geological Survey, Roswell.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/esr

cc: United States Geological Survey  
Roswell, New Mexico

Commissioner of Public Lands  
Santa Fe, New Mexico

C  
O  
P  
Y

June 4, 1970

MAIN OFFICE

'70 JUN 4 PM 2 10

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Rincon Unit  
Initial Participating Area  
Chacra Formation, effective  
March 4, 1970.

ATTENTION: Mr. Charles Higgins

Gentlemen:

The Commissioner of Public Lands has this date approved the Initial Participating Area, Chacra Formation, Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are handing six copies of this Participating Area to the Oil Conservation Commission requesting them to forward at least five copies to the United States Geological Survey at Roswell, New Mexico for their consideration.

Very truly yours,

Ted Bilberry, Director  
Oil and Gas Department

TE/ML/s

cc: USGS-Roswell, New Mexico  
O&G-Santa Fe, New Mexico

C  
O  
P  
Y

El Paso Natural Gas Company

El Paso, Texas 79999

PH 1 01  
JUN 1 1970

299

June 1, 1970

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

Re: Rincon Unit I Sec. No. 916,  
Rio Arriba County, New Mexico  
**APPLICATION FOR APPROVAL OF  
THE INITIAL PARTICIPATING AREA,  
CHACRA FORMATION, Effective  
March 4, 1970**

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the Initial Participating Area of the Chacra Formation for the referenced Unit.

If this Application meets with your approval, please execute all copies and forward them to the Oil Conservation Commission for their approval and execution. After this Application has been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two (2) copies for his file and the Oil Conservation Commission should retain one (1) copy for its file, and five (5) copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for their approval and further handling. After this Application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso.

Yours very truly,

Original Signed By:

CHARLES HIGGINS

Charles Higgins  
Supervising Landman  
Land Department

CH:CTR:nja  
Enclosures

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

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

COPY

# El Paso Natural Gas Company

El Paso, Texas 79999

June 1, 1970

Regional Oil and 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 87501

Re: Rincon Unit I Sec. No. 916,  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF  
THE INITIAL PARTICIPATING AREA,  
CHACRA FORMATION, Effective  
March 4, 1970

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 Initial Participating Area for the Chacra Formation, to wit:

INITIAL PARTICIPATING AREA - Effective March 4, 1970

| <u>Description of Lands</u>   | <u>Acres</u> |
|---|--------------|
| <u>Township 26 North, Range 7 West, N.M.P.M.</u><br><u>Section 12: NW/4</u> | 160.00       |

June 1, 1970

This proposed Initial Participating Area for the Chacra Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the Rincon Unit #189 Chacra Well is capable of producing unitized substances in paying quantities from the Chacra Formation. This well is as follows:

The Rincon Unit #189 Well, is located 1190' from the North line and 790' from the West line of Section 12, Township 26 North, Range 7 West, N.M.P.M., Rio Arriba County, New Mexico. Said well was spudded on October 13, 1969, drilled to 137' then shut down until February 10, 1970 when started drilling again, and completed on February 13, 1970 at a total depth of 3761'. The Chacra Formation in the intervals between 3594'-3606' and 3674'-3686' was treated with a sand-water fracturing process on February 18, 1970. The Chacra Formation was shut-in on February 25, 1970, and after being shut-in for seven (7) days, the Chacra Formation was tested on March 4, 1970, and following a three (3) hour blow-down period gauged 1059 MCFGPD through a 3/4" choke and 1069 MCFGPD by the calculated absolute open-flow method, with an SIPC of 1015 psia (no tubing).

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 proposed Initial Participating Area of the Chacra Formation within the Rincon Unit.

EXHIBIT "B"

Geological Report on the Initial Participating Area of the Chacra Formation within the Rincon Unit.

EXHIBIT "C"

Plate No. 1: Rincon Chacra Structure Map

RECEIVED  
SANDIA FIELD, N.M.  
JUN 2 8 25 AM '70

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

June 1, 1970

Attached hereto is Schedule I showing the proposed Initial 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 Initial 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,



Charles Higgins  
Supervising Landman  
Land Department

CH:CTR:nja  
Enclosures  
Rincon Unit,  
Chacra Formation

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501

SANTA FE, N.M.  
JUN 2 8 26 AM '70

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
appropriate State officials.

APPROVED: Alfred J. Benigno DATE: June 4, 1970  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Commission.

APPROVED: [Signature] DATE: June 8, 1970  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey  
and the Commissioner of Public  
Lands.

The foregoing approvals are for the Initial Participating Area for  
the Chacra Formation, Rincon Unit I Sec. No. 916, Rio Arriba County,  
New Mexico.

RECEIVED  
JUN 7 8 26 AM '70  
SAN JUAN FIELD OFFICE  
SANTA FE, N.M.

RINCON UNIT  
Working Interest Owners

Continental Oil Company

El Paso Products Company

Southern Petroleum Exploration, Inc.

Tenneco Oil Company

Mr. J. Glenn Turner

# El Paso Natural Gas Company

El Paso, Texas 79999

March 10, 1970

MAR 13 1970  
MAR 13 1970  
MAR 13 1970

299

Regional Oil and 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 87501

Re: 1970 DRILLING PROGRAM  
Rincon Unit, I Sec. 916,  
Rio Arriba County, New  
Mexico

Gentlemen:

The 1970 Drilling Program for the referenced Unit was approved by the Regulatory Bodies on the dates indicated:

|                                 |                   |
|---------------------------------|-------------------|
| United States Geological Survey | March 4, 1970     |
| Commissioner of Public Lands    | February 20, 1970 |
| Oil Conservation Commission     | February 19, 1970 |

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

Yours very truly,



Charles Higgins  
Supervising Landman  
Land Department

CH:CTR:nja  
Rincon Unit 3.0

Drawer 1457  
Roswell, New Mexico 88201

'70 MAR 9 AM 8 32

March 4, 1970

299

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Wittich

Gentlemen:

Your 1970 plan of development for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of one Chacra well, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

cc:  
Washington (w/cy plan)  
Durango (w/cy plan)  
NMOCC, Santa Fe (ltr. only) —  
Com. Pub. Lands, Santa Fe (ltr. only)

MAIN OFFICE OCC

'70 FEB 25 PM 1 12

299

February 20, 1970

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Rincon Unit  
Rio Arriba County, New Mexico  
1970 DRILLING PROGRAM

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1970 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, which calls for the drilling of a Chacra well during 1970. This Chacra well was not drilled in 1969 and is being carried forward to the 1970 Drilling Program. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are returning one approved copy for your files.

Very truly yours,

Ted Bilberry, Director  
Oil and Gas Department

TR/ML/s  
encl.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

COPY

**OIL CONSERVATION COMMISSION**

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 19, 1970

299

**El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999**

**Attention: Mr. T. W. Bittick**

**Re: 1970 Drilling Program  
Rincon Unit, Rio Arriba  
County, New Mexico**

**Gentlemen:**

**This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1970 providing for the drilling of one Chacra well in the Rincon Unit, Area, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.**

**One approved copy of the program is returned herewith.**

**Very truly yours,**

**A. L. PORTER, Jr.  
Secretary-Director**

**ALP/JEK/og**

**cc: United States Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe**

C  
O  
P  
Y

# El Paso Natural Gas Company

AM 8 09

El Paso, Texas 79999

January 10, 1970

RECEIVED

'70 FEB 13

Regional Oil and 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 87501

Re: Rincon Unit I Sec. No. 916  
Rio Arriba County, New Mexico  
1970 DRILLING PROGRAM

Gentlemen:

By letter dated February 3, 1969, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned Unit for the calendar year 1969, providing for the drilling of one (1) Dakota well during the year. By letter dated September 5, 1969, a Supplemental Drilling Program was filed which provided for the drilling of one (1) additional Chacra well during 1969.

The #164 Dakota Well was completed during 1969, and occasioned the Thirteenth Expansion of the Dakota Participating Area, effective September 1, 1969, which has been approved by the Regulatory Bodies.

The proposed #189 Chacra Well was not drilled during 1969, but is being carried forward to this 1970 Drilling Program, as set out below.

January 10, 1970

As of this date, the total number of wells drilled in the Rincon Unit on acreage committed to the Unit is as follows:

|  |          |
|--|----------|
| Pictured Cliffs  | 97       |
| Mesaverde  | 16       |
| Dual, Pictured Cliffs-Mesaverde                          | 8        |
| Dual, Mesaverde-Dakota                                   | 6        |
| Mesaverde, Noncommercial                                 | 7        |
| Dakota   | 38       |
| Gallup-Dakota (Gallup-Plugged)<br>(Dakota-Noncommercial) | 1        |
| Tocito (Oil)   | <u>2</u> |
|  | 175      |

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1970, again providing for the drilling of the following well during the year:

| <u>Location</u>                                      | <u>Formation</u> |
|--|------------------|
| Rincon Unit #189 Well<br>NW/4 Sec. 12, T-26-N, R-7-W | Chacra           |

El Paso Natural Gas Company intends to drill this well to the base of the Chacra Formation using rotary tools. Surface casing will be set to the depth of approximately 100 feet and a full string of production casing will be run to the base of the Chacra Formation and will be cemented in place in one stage. The casing in the Chacra Formation will then be perforated and the Chacra Formation subjected to a hydraulic fracturing process. The entire hole will be mud drilled. Due care will be taken to protect all horizons.

All working interest owners have been contacted and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

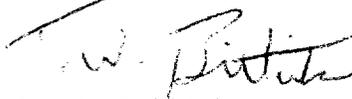
If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Regional Oil & Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
Page 3

January 10, 1970

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

Yours very truly,



T. W. Bittick  
Manager  
Land Department

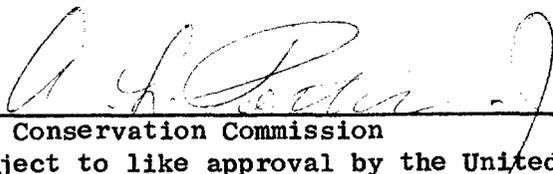
TWB:CFR:sf  
Enclosures  
Rincon Unit, 3.0

APPROVED: \_\_\_\_\_  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
appropriate State officials.

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: Feb 19, 1970

The foregoing approvals are for the 1970 Drilling Program for the Rincon Unit,  
I Sec. No. 916, Rio Arriba County, New Mexico.

RINCON UNIT  
Working Interest Owners

Continental Oil Company

El Paso Products Company

Southern Petroleum Exploration, Inc.

Tenneco Oil Company

Mr. J. Glenn Turner

El Paso Natural Gas Company

El Paso, Texas 79999

January 14, 1970

JAN 16

277

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 87501

Re: Rincon Unit, I Sec. 916  
Rio Arriba County, New Mexico,  
APPLICATION FOR APPROVAL OF THE  
THIRTEENTH EXPANDED PARTICIPATING  
AREA, Dakota Formation, Effective  
September 1, 1969

Gentlemen:

The Thirteenth Expanded Participating Area for the referenced Unit was approved by the Regulatory Bodies on the dates indicated:

|                                 |                   |
|---------------------------------|-------------------|
| United States Geological Survey | January 7, 1970   |
| Commissioner of Public Lands    | November 24, 1969 |
| Oil Conservation Commission     | December 18, 1969 |

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

Yours very truly,



Charles Higgins  
Supervising Landman  
Land Department

CH:CTR:ec  
Rincon Unit, 4.3

cc: Mrs. Pepita O. Jeffus  
New Mexico Oil & Gas Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501



United States Department of the Interior

JAN 9 1970

GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

299

January 7, 1970

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. Charles Higgins

Gentlemen:

The thirteenth revision of the Dakota participating area for the Rincon unit agreement, Rio Arriba County, New Mexico, No. 1 sec. 916, was approved on January 7, 1970, by the Acting Oil and Gas Supervisor, U. S. Geological Survey, effective as of September 1, 1969.

By the thirteenth revision the Dakota participating area is enlarged from 16,163.86 acres to 17,463.94 acres based on the completion of unit well No. 164. Unit well No. 164, located in the NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 2, T. 26 N., R. 7 W., was completed on September 25, 1969, for a calculated initial open flow potential of 3,633,000 cubic feet of gas per day in the Dakota interval from 7,050 feet to 7,254 feet.

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

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

cc:  
Washington (w/cy appln)  
Durango (w/cy appln)  
NMOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

December 18, 1969

299

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. Charles Higgins

Re: Thirteenth Expanded Dakota  
Participating Area, Rincon Unit,  
Rio Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Thirteenth Expanded Participating Area, Dakota formation, for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the application are being forwarded to the United States Geological Survey, Roswell.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

C

O

P

Y

November 24, 1969

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Rincon Unit  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF  
THE THIRTEENTH EXPANDED PARTI-  
CIPATING AREA-Dakota Formation  
Effective September 1, 1969

ATTENTION: Mr. Charles Higgins

Gentlemen:

The Commissioner of Public Lands has this date approved the Thirteenth Expanded Participating Area, Dakota Formation, Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are handing six copies of this expansion to the Oil Conservation Commission requesting them to forward at least five copies to the United States Geological Survey at Roswell, New Mexico for their consideration.

Very truly yours,

Ted Bilberry, Director  
Oil and Gas Department

TE/ML/s

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

C  
O  
P  
Y

NOV 24 1969

# El Paso Natural Gas Company

El Paso, Texas 79999

November 21, 1969

211

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

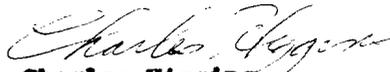
Re: Rincon Unit, I Sec. 916  
Rio Arriba County, New Mexico  
**APPLICATION FOR APPROVAL OF THE  
THIRTEENTH EXPANDED PARTICIPATING  
AREA, Dakota Formation, Effective  
September 1, 1969**

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the Thirteenth Expanded Participating Area of the Dakota Formation for the referenced Unit.

If this Application meets with your approval, please execute all copies and forward them to the Oil Conservation Commission for their approval and execution. After this Application has been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two (2) copies for his file and the Oil Conservation Commission should retain one (1) copy for its file, and five (5) copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for their approval and further handling. After this Application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso.

Yours very truly,



Charles Higgins  
Supervising Landman  
Land Department

CH:CTR:sf  
Enclosures

cc: Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

COPY

# El Paso Natural Gas Company

El Paso, Texas 79999

November 21, 1969

Mr. John A. Anderson  
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 87501

RECEIVED  
NOV 24 6 56 AM '69  
STATE LAND OFFICE  
SANTA FE, N.M.

Re: Rincon Unit, I Sec. 916  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
THIRTEENTH EXPANDED PARTICIPATING  
AREA, Dakota Formation, Effective  
September 1, 1969

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 Thirteenth Expanded Participating Area for the Dakota Formation, to wit:

| <u>Description of Lands</u>                      | <u>Effective</u><br><u>THIRTEENTH EXPANDED PARTICIPATING AREA - September 1, 1969</u> |
|--|---|
| <u>Township 26 North, Range 7 West, N.M.P.M.</u> |   |
| Section 1: Lots 3, 4, S/2 NW/4, SW/4 (W/2)       | 320.60  |
| Section 2: Lots 1,2,3,4, S/2 N/2, S/2 (All)      | 641.44  |
| <u>Township 27 North, Range 7 West, N.M.P.M.</u> |   |
| Section 35: Lots 3,4,5,6,11,12,13,14 (W/2)       | <u>338.04</u>   |
| TOTAL  | 1,300.08  |

The proposed Thirteenth Expanded Participating Area of the Dakota Formation is predicated upon the determination by El Paso Natural

Mr. John A. Anderson  
Commissioner of Public Lands  
Oil Conservation Commission  
Page 2

November 21, 1969

Gas Company, as Unit Operator, that the Rincon Unit #164 Well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

The Rincon Unit #164 Well is located 1840' from the South line and 1090' from the West line of Section 2, Township 26 North, Range 7 West, N.M.P.M. Said well was spudded on August 9, 1969 and completed on August 29, 1969, at a total depth of 7406'. The Dakota Formation in the intervals between 7050' - 7056', 7146' - 7158', 7176' - 7182', 7196' - 7214', 7248' - 7254' was treated with a sand-water fracturing process on August 28, 1969. The Dakota Formation was shut-in on August 30, 1969, and after being shut-in for twenty-six (26) days, the Dakota Formation was tested on September 25, 1969, and following a three (3) hour blow-down period gauged 3395 MCFGPD through a 3/4" choke and 3633 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2390 psia and an SIPT of 2472 psia.

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 Thirteenth Expanded Participating Area of the Dakota Formation within the Rincon Unit.

EXHIBIT "B"

Geological Report on the Thirteenth 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.

RECEIVED  
NOV 24 9 30 AM '69  
STATE OF NEW MEXICO  
SANTA FE, N.M.

Mr. John A. Anderson  
Commissioner of Public Lands  
Oil Conservation Commission  
Page 3

November 21, 1969

Attached hereto is Schedule XIV that shows the proposed Thirteenth 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 percentage of ownership in each tract.

If this Thirteenth 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.

Yours very truly,



Charles Higgins  
Supervising Landman  
Land Department

CH:CTR:sf  
Enclosures  
Rincon Unit, 4.3

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501

NOV 24 0 36 AM '69  
RECEIVED  
STATE LANDS OFFICE  
SANTA FE, N. M.

APPROVED: \_\_\_\_\_  
Oil & Gas Supervisor, United States Geological Survey  
Subject to like approval by the appropriate State  
officials.

DATE: \_\_\_\_\_

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

DATE: 11-24-69

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

DATE: Dec. 18, 1969

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

RECEIVED  
NOV 24 0 35 AM '69  
STATE LAND OFFICE  
SANTA FE, N. M.

RINCON UNIT  
Working Interest Owners

Continental Oil Company

El Paso Products Company

Southern Petroleum Exploration, Inc.

Tenneco Oil Company

Mr. J. Glenn Turner

RECEIVED  
NOV 24 0 35 AM '69  
SANTA FE, N.M.

# El Paso Natural Gas Company

El Paso, Texas 79999

November 12, 1969

NOV 14 1969

277

Mr. John A. Anderson  
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 87501

Re: 1969 SUPPLEMENTAL DRILLING PROGRAMS  
San Juan 29-4 Unit #14-08-001-1055  
Canyon Largo Unit #14-08-001-1059  
Rincon Unit I Sec. No. 916  
Rio Arriba County, New Mexico

Gentlemen:

The following 1969 Supplemental Drilling Programs were approved by the Regulatory Bodies on the dates indicated:

1. San Juan 29-4 Unit, First Supplemental Drilling Program dated August 1, 1969:

United States Geological Survey - August 19, 1969  
Commissioner of Public Lands - No approval necessary  
Oil Conservation Commission - November 3, 1969

2. Canyon Largo Unit:

- a. First Supplemental Drilling Program dated July 23, 1969:

United States Geological Survey - August 6, 1969  
Commissioner of Public Lands - July 24, 1969  
Oil Conservation Commission - November 3, 1969

Mr. John A. Anderson  
Commissioner of Public Lands  
Oil Conservation Commission  
Page 2

November 12, 1969

b. Second Supplemental Drilling Program dated  
September 4, 1969:

United States Geological Survey - September 19, 1969  
Commissioner of Public Lands - September 9, 1969  
Oil Conservation Commission - November 3, 1969

3. Rincon Unit, First Supplemental Drilling Program dated  
September 5, 1969:

United States Geological Survey - September 19, 1969  
Commissioner of Public Lands - September 12, 1969  
Oil Conservation Commission - November 3, 1969

Copies of this letter are being sent to the working interest owners  
of the above-described Units.

Yours very truly,



Charles Higgins  
Supervising Landman  
Land Department

CH:CTR:sf  
San Juan 29-4, 3.0  
Canyon Largo, 3.0  
Rincon Unit, 3.0

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

November 3, 1969

299

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: Supplemental 1969 Drilling  
Program, Rincon Unit, Rio  
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplemental 1969 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the supplemental program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe

C  
O  
P  
Y

# El Paso Natural Gas Company

El Paso, Texas 79999

September 5, 1969

Mr. John A. Anderson  
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 87501

Re: Rincon Unit I Sec. No. 916,  
Rio Arriba County, New Mexico,  
SUPPLEMENTAL 1969 DRILLING PROGRAM

Gentlemen:

By letter dated February 3, 1969, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned Unit for the calendar year 1969. Said program provided for the drilling of one (1) well during 1969.

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of this Supplemental Drilling Program for the calendar year 1969, providing for the drilling of one (1) additional well during the year. This well is as follows:

| <u>Location</u>  | <u>Formation</u> |
|--|------------------|
| Rincon Unit #189 Well<br>NW/4 Sec. 12, T-26-N, R-7-W, N.M.P.M. | Chacra           |

All working interest owners have been contacted and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

Mr. John A. Anderson  
Commissioner of Public Lands  
Oil Conservation Commission  
Page 2

September 5, 1969

If this Supplemental Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Copies of this Supplemental Drilling Program are being sent to the working interest owners as shown on the attached sheet.

Yours very truly,



T. W. Bittick  
Manager  
Land Department

TWB:DI:sf  
Enclosures  
Rincon Unit 3.0

APPROVED: \_\_\_\_\_  
Regional Oil & Gas Supervisor  
United States Geological Survey  
Subject to like approval by the appropriate State  
officials.

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: Nov. 3, 1969

The foregoing approvals are for the Supplemental 1969 Drilling Program for the  
Rincon Unit I Sec. No. 916, Rio Arriba County, New Mexico.

RINCON UNIT  
Working Interest Owners

Continental Oil Company

El Paso Products Company

Southern Petroleum Exploration, Inc.

Tenneco Oil Company

Mr. J. Glenn Turner

SEP 22 1969

Drawer 1857  
Roswell, New Mexico 88201

297

September 19, 1969

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your supplemental plan of development for 1969, dated September 5, 1969, for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of one Chacra well, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. S&D.) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

cc:  
Washington (w/cy. of plan)  
Durango (w/cy. of plan)  
NMOCC, Santa Fe (ltr. only)  
Com. of Pub. Lands, Santa Fe (ltr. only)

299

September 12, 1969

SEP 22 1969

**El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999**

**Re: Rincon Unit  
Supplemental 1969 Drilling  
Program  
Rio Arriba County, New Mexico**

**ATTENTION: Mr. T. W. Bittick**

**Gentlemen:**

The Commissioner of Public Lands has this date approved your Supplemental 1969 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, which calls for the drilling of one additional Chacra Well during 1969. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are returning one approved copy for your files.

Very truly yours,

**Ted Bilberry, Director  
Oil and Gas Department**

**TB/ML/s  
encl.**

**cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico**

C  
O  
P  
Y

# El Paso Natural Gas Company

El Paso, Texas 79999

July 16, 1969

299

Mr. John A. Anderson  
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 87501

Re: Rincon Unit, I Sec. 916, Rio Arriba  
County, New Mexico, APPLICATION FOR  
APPROVAL OF THE TWELFTH EXPANDED  
PARTICIPATING AREA, Dakota Formation,  
Effective December 1, 1968

Gentlemen:

The Twelfth Expanded Participating Area for the referenced Unit was approved by the Regulatory Bodies on the dates indicated:

|                                 |               |
|---------------------------------|---------------|
| United States Geological Survey | July 11, 1969 |
| Commissioner of Public Lands    | June 4, 1969  |
| Oil Conservation Commission     | June 19, 1969 |

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

Yours very truly,



Charles Higgins  
Supervising Landman  
Land Department

CH:JS:sf  
Rincon, 4.3

cc: Mrs. Pepita O. Jeffus  
New Mexico Oil & Gas Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501

Drawer 1857  
Roswell, New Mexico 88201

MAIL OFFICE

'69 JUL 15 AM 8 1 )

299

July 11, 1969

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. Charles Higgins

Gentlemen:

The twelfth revision of the Dakota participating area for the Rincon unit agreement, Rio Arriba County, New Mexico, number I sec. 916, was approved on July 11, 1969, by the Regional Oil and Gas Supervisor, U. S. Geological Survey, effective as of December 1, 1968.

By the twelfth revision, the participating area is enlarged from 15,163.59 acres to 16,163.86 acres based on the completion of unit wells Nos. 131, 169, and 187 as shown in the following tabulation:

| <u>Well No.</u> | <u>Locations</u>  | <u>Completion Date</u> | <u>Initial Calculated Open Flow Potential MCF/CPD</u> | <u>Dakota Producing Interval</u> |
|-----------------|---|------------------------|---|----------------------------------|
| 131             | NE $\frac{1}{4}$ SW $\frac{1}{4}$<br>Sec. 36,<br>T. 27N.,<br>R. 7W. | 12/3/68                | 4871  | 7186-7447                        |
| 169             | NE $\frac{1}{4}$ SW $\frac{1}{4}$<br>Sec. 26,<br>T. 27N.,<br>R. 7W. | 12/11/68               | 3085  | 7364-7534                        |
| 187             | NE $\frac{1}{4}$ NE $\frac{1}{4}$<br>Sec. 35,<br>T. 27N.,<br>R. 7W. | 12/9/68                | 1707  | 7340-7576                        |

Copies of the approved application are being distributed to the appropriate Federal office and one approved copy is returned herewith. You are requested to inform all interested parties with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SGN) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

cc:

Washington - copy of application

Durango - copy of application

NMOCC Santa Fe ✓

Commissioner of Public Lands

Santa Fe

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

June 19, 1969

299

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. Charles Higgins

Re: Twelfth Expanded Dakota  
Participating Area, Rincon  
Unit, Rio Arriba County,  
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Twelfth Expanded Participating Area, Dakota Formation, for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the application are being forwarded to the United States Geological Survey, Roswell, New Mexico.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

C

O

P

Y

3 JUN 13 AM 8 3

June 4, 1969

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Rincon Unit  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
TWELFTH EXPANDED PARTICIPATING  
AREA, Dakota Formation,  
Effective December 1, 1968

ATTENTION: Mr. Charles Higgins

Gentlemen:

The Commissioner of Public Lands has this date approved the Twelfth Expanded Participating Area, Dakota Formation, Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are handing six copies of this expansion to the Oil Conservation Commission requesting them to forward at least five copies to the United States Geological Survey at Roswell for their consideration.

Very truly yours,

Ted Bilberry, Director  
Oil and Gas Department

TB/ML/s

cc: UEGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

RECEIVED





unitized substances in paying quantities from the Dakota Formation. These wells are as follows:

The Rincon Unit #131 Well is located 1800' from the South line and 1550' from the West line of Section 36, Township 27 North, Range 7 West, N.M.P.M. Said well was spudded on October 17, 1968, and completed on November 7, 1968, at a total depth of 7494'. The Dakota Formation in the intervals between 7186'-7190', 7199'-7203', 7214'-7218', 7280'-7284', 7308'-7320', 7340'-7348', 7364'-7368', 7378'-7386', 7435'-7447' was treated with a sand-water fracturing process on November 2, 1968. The Dakota Formation was shut-in on November 9, 1968, and after being shut-in for twenty-four (24) days, the Dakota Formation was tested on December 3, 1968, and following a three (3) hour blow-down period gauged 4401 MCFGPD through a 3/4" choke and 4871 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2519 psia and an SIPT of 2461 psia.

The Rincon Unit #187 Well, located 1100' from the North line and 850' from the East line of Section 35, Township 27 North, Range 7 West, Rio Arriba County, New Mexico, was spudded on November 8, 1968, and completed on November 29, 1968, at a total depth of 7642' in the Dakota Formation. The Dakota Formation in the intervals between 7340'-7346', 7354'-7370', 7458'-7472', 7492'-7502', 7524'-7530', 7568'-7576' was treated with a sand-water fracturing process on November 27, 1968. The Dakota Formation was shut-in for gauge on November 30, 1968, and after being shut-in for nine (9) days, the Dakota Formation was tested on December 9, 1968, and after a three (3) hour blow-down period gauged 1588 MCFGPD through a 3/4" choke and 1707 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2607 psia and an SIPC of 2620 psia.

The Rincon Unit #169 Well is located 1650' from the South line and 1840' from the West line of Section 26, Township 27 North, Range 7 West, N.M.P.M. Said well was spudded on November 11, 1968, and completed on November 29, 1968, at a total depth of 7674'. The Dakota Formation in the intervals between 7364'-7380', 7468'-7482', 7498'-7504', 7524'-7534' was treated with a sand-water fracturing process on November 28, 1968. The Dakota Formation was shut-in on November 30, 1968, and after being shut-in for eleven (11) days, the Dakota Formation was tested on December 11, 1968, and

Mr. John A. Anderson et al  
Page 3

following a three (3) hour blow-down period gauged 2729 MCFGPD through a 3/4" choke and 3085 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2304 psia and an SIPT of 2464 psia.

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 Twelfth Expanded Participating Area of the Dakota Formation within the Rincon Unit.

EXHIBIT "B"

Geological Report on the Twelfth 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 XIII that shows the proposed Twelfth 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 percentage of ownership in each tract.

If this Twelfth 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.

Mr. John A. Anderson et al  
Page 4

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

Very truly yours,



Charles Higgins  
Supervising Landman  
Land Department

CH:JS:sf  
Enclosures

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas  
Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501

APPROVED: \_\_\_\_\_  
Oil and Gas Supervisor, United States  
Geological Survey  
Subject to like approval by the appropriate  
State Officials.

DATE: \_\_\_\_\_

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

DATE: 6-4-69

APPROVED: A. G. Carter, Jr.  
Oil Conservation Commission  
Subject to like approval by the United  
States Geological Survey and the  
Commissioner of Public Lands.

DATE: June 19, 1969

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

RINCON UNIT

Working Interest Owners

Continental Oil Company

El Paso Products Company

Southern Petroleum Exploration, Inc.

Tenneco Oil Company

Mr. J. Glenn Turner

El Paso Natural Gas Company

El Paso, Texas 79999

April 2, 1969

APR 4 1969

299

Mr. John A. Anderson  
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. No. 916  
Rio Arriba County, New Mexico  
1969 DRILLING PROGRAM

Gentlemen:

The 1969 Drilling Program dated February 3, 1969 for the referenced Unit was approved by the Regulatory Bodies on the dates indicated below:

|                                 |   |                  |
|---------------------------------|---|------------------|
| United States Geological Survey | - | March 26, 1969   |
| Commissioner of Public Lands    | - | February 6, 1969 |
| Oil Conservation Commission     | - | February 6, 1969 |

Copies of this letter are being sent to the working interest owners of the above-described Unit.

Yours very truly,

*Charles Higgins*

Charles Higgins  
Supervising Landman  
Land Department

CH:JS:nja  
Rincon Unit 3.0



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

IN REPLY REFER TO:

MAIN OFFICE  
MAR 28 AM 8 17

299

March 26, 1969

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your revised 1969 plan of development for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of one Bakota well, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. SGD.) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

cc:  
Washington (w/cy. of plan)  
Dursago (w/cy. of plan)  
NMOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

MAIN OFFICE

'69 FEB 7 AP

219

February 6, 1969

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Rincon Unit  
1969 Drilling Program  
Rio Arriba County, New Mexico

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1969 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, which calls for the drilling of one Dakota Well during 1969. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are returning one approved copy for your files.

Very truly yours,

ALEX J. ARMIJO  
COMMISSIONER OF PUBLIC LANDS

BY:  
Ted Bilberry, Director  
Oil and Gas Department

AJA/TB/ML/s  
encl. 1.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 6, 1969

299

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1969 Drilling Program  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1969 providing for the drilling of one well for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og  
Enclosure

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

C

O

P

Y

# El Paso Natural Gas Company

El Paso, Texas 79999

February 3, 1969

AT 114  
5 PH I 14  
93 FEB 5  
69 FEB 5

Mr. John A. Anderson  
Regional Oil and 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 87501

Re: Rincon Unit I Sec. No. 916  
Rio Arriba County, New Mexico  
1969 DRILLING PROGRAM

Gentlemen:

By letter dated January 10, 1968, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned Unit for the calendar year 1968. Said program provided for the drilling of no wells during 1968; however, by letter dated September 5, 1968, El Paso Natural Gas Company filed a Revised Drilling Program for 1968 which provided for the drilling of four Dakota wells. Unit Well #146 was completed on acreage lying within the limits of the existing Dakota Participating Area and its completion will not necessitate an expansion. Three wells were completed on acreage outside the existing limits of the Dakota Participating Area. The completion of Unit Wells #131 and #169 will necessitate the Eleventh Expansion and the results of Unit Well #187 are presently being evaluated. As soon as all information has been obtained along with the approval of the other working interest owners, the results of Unit Operator's determination regarding these wells will be submitted to the appropriate Regulatory Bodies for their concurrence.

As of this date, the total number of wells drilled in the Rincon Unit on acreage committed to the Unit is as follows:

|  |            |
|--|------------|
| Pictured Cliffs  | 97         |
| Mesaverde  | 16         |
| Dual, Pictured Cliffs-Mesaverde                              | 8          |
| Dual, Mesaverde-Dakota                                       | 6          |
| Mesaverde, Noncommercial                                     | 7          |
| Dakota (including one being<br>evaluated)                    | 38         |
| Gallup-Dakota (Gallup - Plugged)<br>(Dakota - Noncommercial) | 1          |
| Tocito (Oil)   | 2          |
|  | <u>175</u> |

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1969, providing for the drilling of one well during the year. This well is as follows:

| <u>Location</u>  | <u>Formation</u> |
|--|------------------|
| Rincon Unit #164 Well<br>SW/4, Section 2,<br>T-26-N, R-7-W | Dakota           |

El Paso Natural Gas Company intends to drill this well to the base of the Dakota Formation using rotary tools. Surface casing will be set to the depth of approximately 200' and a full string of production casing will be run to the base of the Dakota Formation and will be cemented in place in three stages. The casing in the Dakota Formation will then be perforated and the Dakota Formation subjected to a hydraulic fracturing process. The entire hole will be mud drilled and mud will be used in setting the production string of casing when said casing is run. Due care will be taken to protect all horizons.

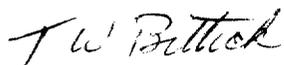
All working interest owners have been contacted and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any off-set wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Very truly yours,



T. W. Bittick  
Manager  
Land Department

TWB:JS:sf  
Enclosures  
Rincon Unit 3.0

APPROVED: \_\_\_\_\_  
Oil & Gas Supervisor, United States Geological  
Survey  
Subject to like approval by the appropriate  
State officials.

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: Feb. 6, 1969

The foregoing approvals are for the 1969 Drilling Program for the Rincon Unit I  
Sec. No. 916, Rio Arriba County, New Mexico

RINCON UNIT

Working Interest Owners

Continental Oil Company  
Attention: Mr. W. C. Blackburn  
200 North Wolcott  
Casper, Wyoming 82601

El Paso Products Company  
Attention: Mr. Roland Hamblin  
P. O. Box 3986  
Odessa, Texas 79760

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia 26175

Mr. J. Glenn Turner  
1700 Mercantile Bank Building  
Dallas, Texas 75201

Tenneco Oil Company  
Attention: Mr. C. W. Nance  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, Colorado 80203

Tenneco Oil Company  
Attention: Mr. J. P. Wasinger  
P. O. Box 2410  
Denver, Colorado 80201

El Paso Natural Gas Company

El Paso, Texas 79999

January 8, 1969

JAN 13 1969

294

Mr. John A. Anderson  
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 87501

Re: Rincon Unit Area, I. Sec. No. 916  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11. of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, has determined on the date indicated that one (1) additional well capable of producing unitized substances from the Dakota Formation has been completed upon acreage committed to the Rincon Unit.

This well is as follows:

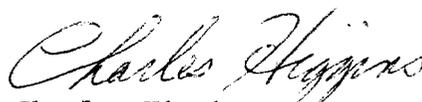
The Rincon Unit #146 Well, located 1,620' from the North line and 1,550' from the East line of Section 23, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on October 15, 1968 and completed in the Dakota Formation on November 9, 1968 at a total depth of 7,800'. The Dakota Formation from 7,536' - 7,548', 7,560' - 7,566', 7,602' - 7,608', 7,632' - 7,644', 7,688' - 7,694', 7,708' - 7,714', 7,742' - 7,748' was treated with a sand-water fracturing process. The well was shut-in on November 10, 1968, and after being shut-in for twenty-three (23) days, the Dakota Formation was tested on December 3, 1968, and following a three (3) hour blow-down period gauged 3,727 MCFGPD through a 3/4" choke and 4,389 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2,584 psia and an SIPC of 2,606 psia. The determination

that this well is capable of producing unitized substances in paying quantities from the Dakota Formation was made on December 3, 1968.

The acreage upon which the Rincon Unit #146 Well is located was included in the Seventh Expanded Participating Area for the Dakota Formation, effective July 1, 1962, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,



Charles Higgins  
Supervising Landman  
Land Department

CH:JS:sf  
Rincon Unit 4.3

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501

**RINCON UNIT**  
**Working Interest Owners**

Continental Oil Company  
Attention: Mr. W. C. Blackburn  
200 North Wolcott  
Casper, Wyoming 82601

El Paso Products Company  
Attention: Mr. Roland Hamblin  
P. O. Box 3986  
Odessa, Texas 79760

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia 26175

Mr. J. Glenn Turner  
1700 Mercantile Bank Building  
Dallas, Texas 75201

Tenneco Oil Company  
Attention: Mr. C. W. Nance  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, Colorado 80203

Tenneco Oil Company  
Attention: Mr. J. P. Wasinger  
P. O. Box 2410  
Denver, Colorado 80201

# El Paso Natural Gas Company

299

El Paso, Texas 79999

October 2, 1968

Mr. John A. Anderson  
Regional Oil and 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 87501

Re: 1968 Revised Drilling Program  
Rincon Unit I Sec. No. 916  
Rio Arriba County, New Mexico

Gentlemen:

The 1968 Revised Drilling Program for the referenced Unit was approved by the regulatory bodies on the dates indicated:

United States Geological Survey, September 13, 1968  
Commissioner of Public Lands, September 12, 1968  
Oil Conservation Commission, September 25, 1968

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

Yours very truly,



Charles Higgins  
Supervising Landman  
Land Department

CH:JS:mb  
Rincon Unit 3.0

100 OCT 9 1968

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

299

September 25, 1968

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: Revised 1968 Drilling  
Program, Rincon Unit,  
Rio Arriba County,  
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Revised 1968 Drilling Program dated September 5, 1968, for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the program are returned herewith.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe

C  
O  
P  
Y



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

September 13, 1968

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your revised 1968 plan of development for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of four Dakota wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(SIGNED) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

cc:  
Washington (w/cy. of plan)  
Farmington (w/cy. of plan)  
NMOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands , Santa Fe (ltr. only)

68 SEP 16 AM 11:11

State of New Mexico



Commissioner of Public Lands



September 12, 1968

GUYTON B. HAYS  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Rincon Unit  
Revised 1968 Drilling Program  
Rio Arriba County, New Mexico

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your Revised 1968 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico. This approval is subject to like approval by the United States Geological Survey.

Your revised 1968 Drilling program calls for the drilling of four Dakota wells during the 1968 calendar year.

We are returning one approved copy for your files.

Very truly yours,

Guyton B. Hays  
Commissioner of Public Lands

GEH/s  
encl.

cc: USGS-Roswell, New Mexico  
OCC- Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas 79999

September 5, 1968

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

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

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
REVISED 1968 DRILLING PROGRAM

Gentlemen:

By letter dated January 10, 1968, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1968. This program provided for the drilling of no wells during the calendar year 1968.

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Revised Drilling Program which provides for the drilling of four (4) wells during the 1968 calendar year. These wells are as follows:

| <u>Location</u>  | <u>Formation</u> |
|--|------------------|
| Rincon Unit #169 Well<br>SW/4 Section 26,<br>T-27-N, R-7-W | Dakota           |
| Rincon Unit #187 Well<br>NE/4 Section 35,<br>T-27-N, R-7-W | Dakota           |
| Rincon Unit #146 Well<br>NE/4 Section 23,<br>T-27-N, R-6-W | Dakota           |

Mr. John A. Anderson  
Oil Conservation Commission  
Commissioner of Public Lands

-2-

September 5, 1968

Location

Formation

Rincon Unit #131 Well  
SW/4 Section 36,  
T-27-N, R-7-W

Dakota

El Paso Natural Gas Company intends to drill these wells to the base of the Dakota Formation using rotary tools. Surface casing will be set to the depth of approximately 200' and a full string of production casing will be run to the base of the Dakota Formation and will be cemented in place in three stages. The casing in the Dakota Formation will then be perforated and the Dakota Formation subjected to a hydraulic fracturing process. The entire hole will be mud drilled and mud will be used in setting the production string of casing when said casing is run. Due care will be taken to protect all horizons.

In addition to the above wells, El Paso Natural Gas Company, as Unit Operator, will drill any offset wells required to prevent drainage of unitized substances and any other wells requested by the working interest owners.

All of the working interest owners have been contacted and this Revised Drilling Program reflects, insofar as possible, their requests for additional drilling.

If this Revised Drilling Program is acceptable, please signify your approval, as required under Section 10 of the Unit Agreement, in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Very truly yours,



T. W. Bittick  
Manager  
Land Department

TWB:JS:vjh  
Attachments

Rincon Unit 3.0

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the appropriate State Officials.

APPROVED: *P. H. Carter, Jr.* DATE: *Sept. 25, 1968*  
Oil Conservation Commission  
Subject to like approval by the United States Geological Survey and  
Commissioner of Public Lands

APPROVED: *[Signature]* DATE: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the United States Geological Survey and  
Oil Conservation Commission

The foregoing approvals are for the Revised 1968 Drilling Program for the  
Rincon Unit, I Sec. No. 916, Rio Arriba County, New Mexico.

RINCON UNIT

Working Interest Owners

Continental Oil Company  
Attention: Mr. W. C. Blackburn  
200 N. Wolcott  
Casper, Wyoming 82601

El Paso Products Co.  
Attention: Mr. Roland Hamblin  
P. O. Box 3986  
Odessa, Texas 79760

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia 26175

Mr. J. Glenn Turner  
1700 Mercantile Bank Building  
Dallas, Texas 75201

Tenneco Oil Company  
Attention: Mr. C. W. Nance  
Suite 1200, Lincoln Tower Building  
1860 Lincoln Street  
Denver, Colorado 80203

Tenneco Oil Company  
Attention: Mr. J. P. Wasinger  
P. O. Box 2410  
Denver, Colorado 80201

# El Paso Natural Gas Company

El Paso, Texas 79999  
March 26, 1968

299

Mr. John A. Anderson  
Regional Oil and 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

Re: 1968 Drilling Program  
Rincon Unit I Sec. No. 916  
Rio Arriba County, New Mexico

Gentlemen:

The 1968 Drilling Program for the referenced Unit was approved by the regulatory bodies on the dates indicated:

|                                 |   |                   |
|---------------------------------|---|-------------------|
| United States Geological Survey | - | February 26, 1968 |
| Commissioner of Public Lands    | - | January 22, 1968  |
| Oil Conservation Commission     | - | March 19, 1968    |

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

Yours very truly,

*Charles Higgins*  
Charles Higgins  
Supervising Landman  
Land Department

CH:AJM:vjh

Rincon Unit 3.0

MAR 28 PM 1 00

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

299

March 19, 1968

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1968 Drilling Program  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1968, providing for the drilling of no wells for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe

C  
O  
P  
Y



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

February 26, 1968

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1968 plan of development for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil & Gas Supervisor

cc:  
Washington (w/cy. of plan)  
Farmington (w/cy. of plan)  
NMOCC - Santa Fe (ltr. only) ✓  
Com. of Pub. Lands - Santa Fe (ltr. only)

MAIL OFFICE

'68 FEB 28 AM 8 37

State of New Mexico



Commissioner of Public Lands



January 22, 1968

GUYTON B. HAYS  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Re: Rincon Unit  
Rio Arriba County, New Mexico  
1968 DRILLING PROGRAM

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1968 Drilling Program, which proposes the drilling of no additional wells. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

BY:  
Eddie Lopez, Supervisor  
Unit Division

GBH/TB/EL/s  
encl.

cc: United States Geological Survey  
Roswell, New Mexico

Oil Conservation Commission  
Santa Fe, New Mexico

MAIL OFFICE

'68 JAN 23 AM 8 43

# El Paso Natural Gas Company

El Paso, Texas 79999

January 10, 1968

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

MAIN OFFICE COPY

'68 JAN 11 PM 1 19

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 87501

Re: Rincon Unit I Sec. No. 916  
Rio Arriba County, New Mexico  
1968 DRILLING PROGRAM

Gentlemen:

By letter dated December 27, 1966, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned Unit for the calendar year 1967. Said program provided for the drilling of no wells and none were drilled in subject Unit during 1967.

As of this date, the total number of wells drilled in the Rincon Unit on acreage committed to the Unit is as follows:

|  |            |
|--|------------|
| Pictured Cliffs  | 97         |
| Mesaverde  | 16         |
| Dual, Pictured Cliffs-Mesaverde                              | 8          |
| Dual, Mesaverde-Dakota                                       | 6          |
| Mesaverde, Noncommercial                                     | 7          |
| Dakota   | 34         |
| Gallup-Dakota (Gallup - Plugged)<br>(Dakota - Noncommercial) | 1          |
| Tocito (Oil)   | 2          |
|  | <u>171</u> |

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1968, providing for the drilling of no wells during the year.

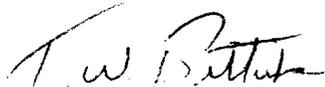
All working interest owners have been contacted and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Very truly yours,



T. W. Bittick  
Manager  
Land Department

TWB:AJM:vjh  
Attachment

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the appropriate  
State officials.

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

APPROVED:  DATE: March 19, 1968  
Oil Conservation Commission  
Subject to like approval by the United  
States Geological Survey and the  
Commissioner of Public Lands.

The foregoing approvals are for the 1968 Drilling Program for the Rincon Unit  
I Sec. No. 916, Rio Arriba County, New Mexico.

**RINCON UNIT**

**Working Interest Owners**

Continental Oil Company  
Attention: Mr. W. C. Blackburn  
P. O. Box 680  
Casper, Wyoming 82601

El Paso Products Company  
Attention: Mr. Roland Hamblin  
P. O. Box 3986  
Odessa, Texas 79760

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia 26175

Mr. J. Glenn Turner  
1700 Mercantile Bank Building  
Dallas, Texas 75201

Tenneco Oil Company  
Attention: Mr. R. E. Siverson  
P. O. Box 1714  
Durango, Colorado 81302

Tenneco Oil Company  
Attention: Mr. Weaver W. Ralls, Supervisor  
Division Records and Rentals  
900 Wilco Building  
Midland, Texas 79701

# El Paso Natural Gas Company

El Paso, Texas 79999

May 1, 1967

MAIN OFFICE ONLY  
'67 MAY 4 11 AM 8 16

299

Mr. John A. Anderson  
Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

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

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

Re: Rincon Unit  
Rio Arriba County, New Mexico  
1967 DRILLING PROGRAM

Gentlemen:

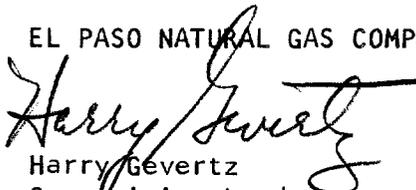
This is to advise that the captioned Drilling Program for the Rincon Unit was approved by the regulatory bodies on the following dates:

1. United States Geological Survey - January 31, 1967
2. Commissioner of Public Lands - February 3, 1967
3. Oil Conservation Commission - April 26, 1967

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

Yours very truly,

EL PASO NATURAL GAS COMPANY

  
Harry Gevertz  
Supervising Landman  
Land Department

HG:AJM:psr

Rincon Unit 3.0

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

211

April 26, 1967

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1967 Drilling Program  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1967 Drilling Program dated December 27, 1966, for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og  
Enclosure

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Drawer 1857  
Roswell, New Mexico 88201

C  
O  
P  
Y



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

January 31, 1967

1967 FEB 1 11:00 AM

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1967 plan of development dated December 27, 1966, for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(Original) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

cc:  
Washington (w/cy of plan)  
Farmington (w/cy of plan)  
NMOCC - Santa Fe (ltr. only) ✓  
Com. of Pub. Lands - Santa Fe (ltr. only)

# El Paso Natural Gas Company

El Paso, Texas 79999

December 27, 1966

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

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 87501

Re: Rincon Unit I Sec. No. 916  
Rio Arriba County, New Mexico  
1967 DRILLING PROGRAM

Gentlemen:

By letter dated March 31, 1966, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned Unit for the calendar year 1966. Said program provided for the drilling of no wells and none were drilled in subject Unit during 1966.

As of this date, the total number of wells drilled in the Rincon Unit on acreage committed to the Unit is as follows:

|   |            |
|---|------------|
| Pictured Cliffs   | 97         |
| Mesaverde   | 16         |
| Dual, Pictured Cliffs-Mesaverde                               | 8          |
| Dual, Mesaverde-Dakota  | 6          |
| Mesaverde, Non-Commercial                                     | 7          |
| Dakota  | 34         |
| Gallup-Dakota (Gallup - Plugged)<br>(Dakota - Non-Commercial) | 1          |
| Tocito (Oil)  | 2          |
|   | <u>171</u> |

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1967, providing for the drilling of no wells during the year.

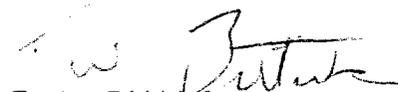
All working interest owners have been contacted and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or which are requested by the Unit Operator and the working interest owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Very truly yours,



T. W. Bittick  
Manager  
Land Department

TWB:CTR:sb

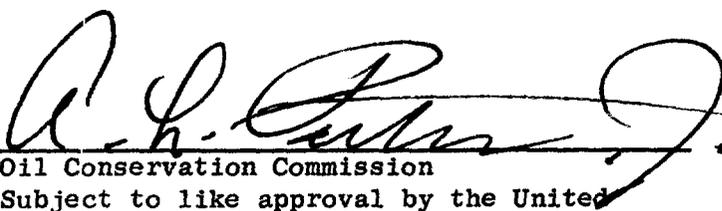
Attachment

APPROVED: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the appropriate  
State officials.

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: April 26, 1967

The foregoing approvals are for the 1967 Drilling Program for the Rincon Unit  
I Sec. No. 916, Rio Arriba County, New Mexico.

RINCON UNIT  
Working Interest Owners

Continental Oil Company  
Attention: Mr. H. D. Haley  
P. O. Box 1621  
Durango, Colorado

El Paso Products Company  
Attention: Mr. Roland Hamblin  
P. O. Box 3986  
Odessa, Texas

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia

Mr. J. Glenn Turner  
1900 Mercantile Dallas Building  
Dallas, Texas

Tenneco Oil Company  
Attention: Mr. R. E. Siverson  
P. O. Box 1714  
Durango, Colorado

Tenneco Oil Company  
4th Floor, 201 Wall Building  
Midland, Texas 79701  
Attention: Mr. Weaver W. Ralls, Supervisor  
Division Records and Rentals

El Paso Natural Gas Company

El Paso, Texas 79999

April 14, 1967

MAIN OFFICE CITY

'67 APR 17 AM

277

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

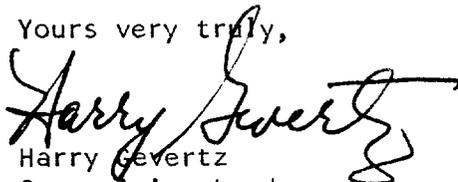
Re: Rincon Unit  
Huerfano Unit

Gentlemen:

According to our records you have not approved the 1967 Drilling Program on the captioned two units. The program on the Rincon Unit was submitted on December 27, 1966, and the program on the Huerfano Unit was submitted on January 6, 1967. If these two programs meet with your approval, please sign and return one copy of the above referenced letters. These programs have been approved by the United States Geological Survey and the Commissioner of Public Lands.

If additional information or extra copies are required, please advise us.

Yours very truly,

  
Harry Gevertz  
Supervising Landman  
Land Department

HG:AJM:pr

# El Paso Natural Gas Company

El Paso, Texas 79999

May 12, 1966

211

Mr. John A. Anderson  
Regional Oil & Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

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

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

MAIN OFFICE 010

'66 MAY 16 AM 8 24

Re: Rincon Unit  
San Juan County, New Mexico  
1966 DRILLING PROGRAM

Gentlemen:

This is to advise that the captioned Drilling Program for the Rincon Unit was approved by the regulatory bodies on the following dates:

1. United States Geological Survey - April 20, 1966
2. Commissioner of Public Lands - April 18, 1966
3. Oil Conservation Commission - May 4, 1966

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

Yours very truly,

EL PASO NATURAL GAS COMPANY

  
Harry Gevertz  
Supervising Landman  
Land Department

HG:AJM:cg

Rincon Unit, 3.0

OIL CONSERVATION COMMISSION

P. O. BOX 2088  
SANTA FE, NEW MEXICO

299

May 4, 1966

**El Paso Natural Gas Company**  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Re: 1966 Drilling Program,  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1966 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell

Commissioner of Public Lands - Santa Fe

C  
O  
P  
Y



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

MAIL SERVICE DIV.  
APR 20 PM 1 10  
April 20, 1966

El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79999

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1966 plan of development dated March 31, 1966, for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(S) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

cc:

Washington (w/cy of plan)

Farmington (w/cy of plan)

NMOCC - Santa Fe (ltr. only) ✓

Com. of Pub. Lands - Santa Fe (ltr. only)

---

State of New Mexico



Commissioner of Public Lands



April 18, 1966

GUYTON B. HAYS  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

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

Re: Rincon Unit  
Rio Arriba County, New Mexico

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands approves as of this date the 1966 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

We are returning one approved copy of this Drilling Program.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS  
BY:  
Ted Bilberry, Director  
Oil and Gas Department

GBH/MMR/s

cc: United States Geological Survey  
Roswell, New Mexico

New Mexico Oil Conservation Commission  
Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas 79999

March 31, 1966

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

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

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

APR 1 PM 1:23  
MAIL OFFICE 000

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
1966 DRILLING PROGRAM

Gentlemen:

By letter dated December 23, 1964, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program covering the captioned Unit for the calendar year 1965. Said Drilling Program provided for the drilling of one Dakota well. El Paso Natural Gas purchased the Rincon Unit #11 Well in the SW/4 Sec. 6, T-26-N, R-6-W, and recompleted this well in the Dakota Formation.

As of this date, the total number of wells in the Rincon Unit is as follows:

|   |          |
|---|----------|
| Pictured Cliffs   | 97       |
| Mesaverde   | 16       |
| Dual, Pictured Cliffs-Mesaverde                               | 8        |
| Dual, Mesaverde-Dakota  | 6        |
| Mesaverde, Non-Commercial                                     | 7        |
| Dakota  | 34       |
| Gallup-Dakota (Gallup - Plugged)<br>(Dakota - Non-Commercial) | 1        |
| Tocito (oil)  | <u>2</u> |
|   | 171      |

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting a Drilling Program providing for

the drilling of no wells during the period from January 1, 1966 to December 31, 1966.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

All of the working interest owners have been contacted and this Drilling Program reflects their desires for additional drilling.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

  
\_\_\_\_\_  
T. W. Bittick, Manager  
Land Department

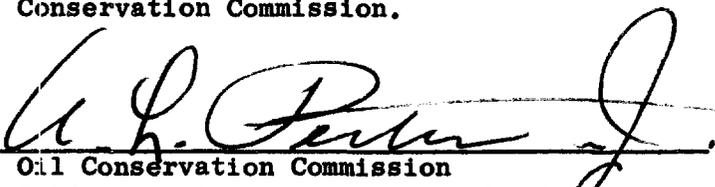
TWB:AJM:cg

APPROVED: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the appropriate  
State Officials.

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: 5/4/66

The foregoing approvals are for the 1966 Drilling Program for the Rincon Unit  
I Sec. No. 916, Rio Arriba County, New Mexico.

**RINCON UNIT**  
**Working Interest Owners**

**Continental Oil Company**  
**Attention: Mr. H. D. Haley**  
**P. O. Box 1621**  
**Durango, Colorado**

**El Paso Natural Gas Products Company**  
**Attention: Mr. Roland Hamblin**  
**P. O. Box 3986**  
**Odessa, Texas**

**Southern Petroleum Corporation, Inc.**  
**Attention: Mr. John C. Wright**  
**P. O. Box 192**  
**Sistersville, West Virginia**

**Mr. J. Glenn Turner**  
**1900 Mercantile Dallas Building**  
**Dallas, Texas**

**Tenneco Oil Company**  
**Attention: Mr. R. E. Siverson**  
**P. O. Box 1714**  
**Durango, Colorado**

**Tenneco Oil Company**  
**4th Floor, 201 Wall Building**  
**Midland, Texas 79701**  
**Attention: Mr. Weaver W. Ralls, Supervisor**  
**Division Records and Rentals**

# El Paso Natural Gas Company

El Paso, Texas

November 2, 1965

299

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D. C.

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

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

Re: Rincon Unit Area, 1 Sec. No. 916  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, has determined on the date indicated that one (1) additional well capable of producing unitized substances from the Dakota Formation has been completed upon acreage committed to the Rincon Unit.

This well is as follows:

The Rincon Unit #11 Well, located 1,607' from the South line and 1,865' from the West line of Section 6, Township 26 North, Range 6 West, Rio Arriba County, New Mexico, was originally completed in 1954 and did not produce. El Paso Natural Gas Products Company completed the well for water injection in 1960. On July 31, 1965, El Paso Natural Gas Company began deepening the well and completed it in the Dakota Formation on August 27, 1965, at a total depth of 7,425. The Dakota Formation from 7,182' - 7,198'; 7,194' - 7,202'; 7,293' - 7,301'; 7,342' - 7,346'; 7,366' - 7,374'; 7,389' - 7,393' was treated with a sand-water fracturing process. The well was shut-in on September 2, 1965, and after being shut-in for eight (8) days, the Dakota Formation was tested on September 10, 1965, and following a three (3) hour blow-down period gauged 3,694 MCFGPD

through a 3/4" choke and 4,049 MCFGPD by the calculated absolute open-flow method, with a SIPT of 2,256 psia and a SIPC of 2,503 psia. The determination that this well is capable of producing unitized substances in paying quantities from the Dakota Formation was made on September 10, 1965.

The acreage upon which the Rincon Unit #11 Well is located was included in the Second Expanded Participating Area for the Dakota Formation, effective January 1, 1960. The completion of this well does not warrant inclusion of additional acreage in the Dakota Participating Area. Therefore, the Participating Area will not be enlarged and the percentages allocated to the various tracts will remain the same.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



T. W. Bittick  
Assistant Manager  
Land Department

TWB:MB:kf

**RINCON UNIT**  
**Working Interest Owners**

Continental Oil Company  
Attention: Mr. H. D. Haley  
P. O. Box 1621  
Durango, Colorado

El Paso Natural Gas Products Company  
Attention: Mr. Roland Hamblin  
P. O. Box 3986  
Odessa, Texas

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia

Mr. J. Glenn Turner  
1900 Mercantile Dallas Building  
Dallas, Texas

Tenneco Oil Company  
Attention: Mr. R. E. Siverson  
P. O. Box 1714  
Durango, Colorado

Union Oil Company of California  
Attention: Mr. Harry E. Keegan  
619 West Texas Street  
Midland, Texas

# El Paso Natural Gas Company

El Paso, Texas

April 27, 1965

299

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico

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

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

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
1965 DRILLING PROGRAM

Gentlemen:

The 1965 Drilling Program for the Rincon Unit was approved by the regulatory bodies on the following dates:

- |                                    |                |
|------------------------------------|----------------|
| 1. United States Geological Survey | April 7, 1965  |
| 2. Commissioner of Public Lands    | March 4, 1965  |
| 3. Oil Conservation Commission     | March 24, 1965 |

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

Very truly yours,



Harry Gevertz  
Regional Landman  
Land Department

HG:MB:jm

277  
Drawer 1857  
Roswell, New Mexico 88201

April 7, 1965

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

Attention: Mr. Sam Smith

Gentlemen:

Your 1965 plan of development dated December 23, 1964, for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of one Dakota formation well, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(REG. SGB.) BILLY J. SHOGER

BILLY J. SHOGER  
Acting Oil and Gas Supervisor

cc:  
Washington (w/cy of plan)  
Farmington (w/cy of plan)  
NMOCC-Santa Fe (ltr only) ✓  
Com. of Pub. Lands-Santa Fe (ltr only)

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

299

March 24, 1965

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

Attention: Mr. Sam Smith

Re: 1965 Drilling Program  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1965 Drilling Program for 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 plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe  
U. S. Geological Survey - Roswell

C  
O  
P  
Y

March 4, 1965

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

Re: Rincon Unit  
Rio Arriba County, New Mexico  
1965 Plan of Development

Gentlemen:

The Commissioner of Public Lands approves as of March 4, 1965, your 1965 Plan of Development for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

The Plan provides for the drilling of one Dakota well during 1965.

We are returning one approved copy of the Plan.

Very truly yours,

GUYTON B. HAYS  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mr.) Ted Bilberry, Director  
Oil and Gas Department

GBH/mm/d  
Enclosure

cc: United States Geological Survey  
Oil Conservation Commission

# El Paso Natural Gas Company

El Paso, Texas

December 23, 1964

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

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

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

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
1965 DRILLING PROGRAM

Gentlemen:

By letter dated February 25, 1964, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program covering the captioned Unit for the calendar year 1964. Said Drilling Program provided for the drilling of no wells, and no wells were drilled in subject unit during 1964.

As of this date, the total number of wells in the Rincon Unit is as follows:

|                                  |            |
|----------------------------------|------------|
| Pictured Cliffs                  | 97         |
| Mesaverde                        | 16         |
| Dual, Pictured Cliffs-Mesaverde  | 8          |
| Dual, Mesaverde-Dakota           | 6          |
| Mesaverde, Non-Commercial        | 7          |
| Dakota                           | 33         |
| Gallup-Dakota (Gallup - Plugged) | 1          |
| (Dakota - Non-Commercial)        |            |
| Tocito (oil)                     | 3          |
|                                  | <u>171</u> |

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program

providing for the drilling of the following described well during the period from January 1, 1965 to December 31, 1965:

| <u>Location</u>                     | <u>Formation</u> |
|-------------------------------------|------------------|
| S/2 Sec. 6, T-26-N, R-6-W, N.M.P.M. | Dakota           |

The basis for drilling the above well is to offset the Caulkins Breech No. "B" - 123, located in the NE/4 of Section 7, T-26-N, R-6-W, which had an initial potential of 7,000 MCF/D, but has not yet been first delivered.

El Paso Natural Gas Company intends to drill this well to the base of the Dakota Formation using rotary tools. Surface casing will be set to the depth of approximately 300' and an intermediate string will be run if necessary, through the Pictured Cliffs Formation to a depth of approximately 3200', and then a production casing string will be run and cemented to the base of the Dakota Formation. The casing in the Dakota Formation will then be perforated and the Dakota Formation subjected to a hydraulic fracturing process. Due care will be taken to protect all horizons.

In addition to the above well, El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

All of the working interest owners have been contacted and this Drilling Program reflects their desires for additional drilling.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By \_\_\_\_\_  
Sam Smith, Manager  
Land Department

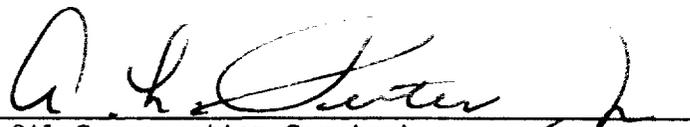
SS:CTR:js

APPROVED: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the appropriate  
State officials.

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: 3-25-65

The foregoing approvals are for the 1965 Drilling Program for the Rincon Unit  
I Sec. No. 916, Rio Arriba County, New Mexico.

RINCON UNIT  
Working Interest Owners

Continental Oil Company  
P. O. Box 3312  
Durango, Colorado

El Paso Natural Gas Products Company  
Attention: Mr. Roland Hamblin  
P. O. Box 3986  
Odessa, Texas

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia

Tenneco Oil Company  
Attention: Mr. R. E. Siverson  
P. O. Box 1714  
Durango, Colorado

Mr. J. Glenn Turner  
1900 Mercantile Dallas Building  
Dallas 1, Texas

Union Oil Company of California  
Attention: Mr. Harry E. Keegan  
619 West Texas Street  
Midland, Texas

**EL PASO NATURAL GAS PRODUCTS COMPANY**

EL PASO, TEXAS

March 9, 1965

ADDRESS REPLY TO  
POST OFFICE BOX 3986  
ODESSA, TEXAS

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission ✓  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

211

Gentlemen:

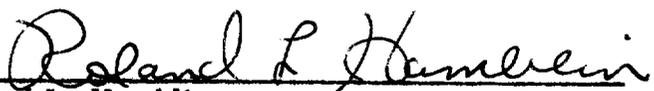
Enclosed herewith for your information is a Resignation of Sub-Operator for the Lower Gallup (Tocito) Pool in the Rincon Unit I, Section No. 916, Rio Arriba County, New Mexico.

Oil production from the Rincon Unit Wells #6, #11 and #20 has ceased to be commercial, a waterflood program has proven unsuccessful and these wells will either be plugged and abandoned, or deepened to the Dakota Formation. Inasmuch as there is no oil production, we can see no necessity for having a sub-operator for oil production and have therefore resigned as sub-operator.

El Paso Natural Gas Company will remain as Unit Operator for this Unit. This resignation has been approved by the U. S. G. S. Copies of this Resignation are being sent to all working interest owners.

Yours very truly,

EL PASO NATURAL GAS PRODUCTS COMPANY

  
Roland L. Hamblin  
Manager - Land Department

RLH/mg

Enclosures (2)

cc: El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas - 2 enclosures  
Attn: Harry Gevertz

Mr. J. Glen Turner  
1900 Mercantile Dallas Building  
Dallas 1, Texas - 1 enclosure

Continental Oil Company  
P. O. Box 3312  
Durango, Colorado - 2 enclosures  
Attn: F. E. Ellis

Tenneco Oil Company  
P. O. Box 1714  
835 Second Avenue  
Durango, Colorado 81302 - 2 enclosures

COPY

RESIGNATION OF SUB-OPERATOR  
RINCON UNIT AREA  
I SEC. NO. 916

W I T N E S S E T H, T H A T:

WHEREAS, under the provisions of the act of February 25, 1920, 41 Stat. 437, 30 U.S.C. Secs. 181, et seq., as amended by the act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior on the 27th day of February, 1952, approved a unit agreement for the Rincon Unit Area wherein Ralph A. Johnston was designated as Unit Operator; and,

WHEREAS, by indenture dated as of the 1st day of April, 1959, accepted for record purposes by the Acting Director of the United States Geological Survey on the 20th day of October, 1959, and by the Commissioner of Public Lands of the State of New Mexico on the 9th day of November, 1959, El Paso Natural Gas Company, successor Unit Operator, designated El Paso Natural Gas Products Company as Sub-Operator as to the Lower Gallup (Tocito) Zone in and under the lands covered by the said Unit Agreement; and

WHEREAS, El Paso Natural Gas Products Company desires to resign as such Sub-Operator.

NOW THEREFORE, in consideration of the premises, El Paso Natural Gas Products Company does hereby resign as such Sub-Operator.

Executed, as of the 1st day of December, 1964.

EL PASO NATURAL GAS PRODUCTS COMPANY

WITNESSES:

By Rolando L. Hernandez  
Attorney-in-Fact

\_\_\_\_\_  
\_\_\_\_\_

RESIGNATION OF SUB-OPERATOR  
RINCON UNIT AREA  
I SEC. NO. 916

100-101-100

W I T N E S S E T H, T H A T:

WHEREAS, under the provisions of the act of February 25, 1920, 41 Stat. 437, 30 U.S.C. Secs. 181, et seq., as amended by the act of August 8, 1946, 60 Stat. 950, the Secretary of the Interior on the 27th day of February, 1952, approved a unit agreement for the Rincon Unit Area wherein Ralph A. Johnston was designated as Unit Operator; and,

WHEREAS, by indenture dated as of the 1st day of April, 1959, accepted for record purposes by the Acting Director of the United States Geological Survey on the 20th day of October, 1959, and by the Commissioner of Public Lands of the State of New Mexico on the 9th day of November, 1959, El Paso Natural Gas Company, successor Unit Operator, designated El Paso Natural Gas Products Company as Sub-Operator as to the Lower Gallup (Tocito) Zone in and under the lands covered by the said Unit Agreement; and

WHEREAS, El Paso Natural Gas Products Company desires to resign as such Sub-Operator.

NOW THEREFORE, in consideration of the premises, El Paso Natural Gas Products Company does hereby resign as such Sub-Operator.

Executed, as of the 1st day of November, 1964.

EL PASO NATURAL GAS PRODUCTS COMPANY

WITNESSES:

By

Robert L. Thompson  
Attorney-in-Fact

\_\_\_\_\_  
\_\_\_\_\_

# El Paso Natural Gas Company

El Paso, Texas

November 23, 1964

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

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

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

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
1964 DRILLING PROGRAM

Gentlemen:

The 1964 Drilling Program for the Rincon Unit was approved by the regulatory bodies on the following dates:

1. United States Geological Survey - July 29, 1964
2. Commissioner of Public Lands - November 6, 1964
3. Oil Conservation Commission - November 9, 1964

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

Very truly yours,



Harry Gevertz  
Regional Landman  
Land Department

HG: JH: js

Rincon, 3.0

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

November 9, 1964

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

Attention: Mr. Sam Smith

Re: 1964 Drilling Program  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1964 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JHE/og

cc: United States Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe

C  
O  
P  
Y

MAIL ROOM

NOV 9 1964

November 6, 1964

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

Re: Rincon Unit  
Rio Arriba County, New Mexico  
1964 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands approved as of November 6, 1964, the 1964 Drilling Program for the Rincon Unit Area, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are returning one approved copy of this Plan.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:

Ted Bilberry, Director  
Oil & Gas Department

ESW/mmr/v

cc: United States Geological Survey  
Roswell, New Mexico

Oil Conservation Commission  
Santa Fe, New Mexico

11-03-64  
NOV 5 AM 7:10

*El Paso Natural Gas Company*

*El Paso, Texas* 79999

November 3, 1964

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

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

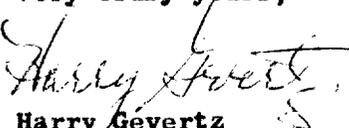
Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
1964 DRILLING PROGRAM

Gentlemen:

Our records indicate that we may not have received your approval of El Paso Natural Gas Company's proposed Drilling Program for the calendar year 1964 for the captioned Unit. This program was submitted to you in our letter of February 25, 1964.

If you have furnished us a copy of your approval, we would appreciate your so advising us, and if you have not furnished us such a copy, we request that you let us know when we may expect to receive it.

Your help in this matter will be appreciated.

Very truly yours,  
  
Harry Gevertz  
Regional Landman  
Land Department

HG: JH: js

Rincon, 3.0

MAIN OFFICE DOC

1964 APR 12 PM 2 10

April 1, 1964

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

Re: Rincon Unit  
Rio Arriba County, New Mexico  
1964 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

This office is of the opinion that there is a Dakota offset well overdue in Section 2, Township 26 North, Range 7 West, of the Rincon Unit.

El Paso Natural Gas Products Well No. 1, located in the NE/4NE/4 Section 3, Township 26 North, Range 7 West has been producing since 1960 and certainly is draining the acreage in the Unit.

Therefore we will expect the Plan of Development as submitted to be revised to provide for the drilling of this well. Your 1964 Drilling Program, first paragraph, line five reads "the SE/4 of Section 33, Township 26 North, Range 7 West." I believe this should be "Township 27 North, Range 7 West".

# El Paso Natural Gas Company

El Paso, Texas

February 25, 1964

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
1964 DRILLING PROGRAM

Gentlemen:

By letter dated February 8, 1963, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program covering captioned Unit for the calendar year 1963. This Program provided for the drilling of one well at a location to be selected at a later date. This well was subsequently located in the SE/4 of Section 33, Township 26 North, Range 7 West, and drilled to the Gallup and Dakota Formations as an offset to wells drilled by Compass Exploration, Inc., in Sections 3 and 4, Township 26 North, Range 7 West, N.M.P.M. The Gallup Formation was found to be non-productive and was plugged and the Dakota portion thereof was determined to be non-commercial and a Non-Commercial Determination was submitted on same to the regulatory bodies.

A thorough review of El Paso's records of well completions within the Rincon Unit to January 1, 1964 shows the following wells to have been drilled in the Unit:

|                                  |            |
|----------------------------------|------------|
| Pictured Cliffs                  | 97         |
| Mesaverde                        | 16         |
| Dual, Pictured Cliffs-Mesaverde  | 8          |
| Dual, Mesaverde-Dakota           | 6          |
| Mesaverde, Non-Commercial        | 7          |
| Dakota                           | 33         |
| Gallup-Dakota (Gallup - Plugged) | 1          |
| (Dakota - Non-Commercial)        |            |
| Tocito (oil)                     | 3          |
|                                  | <u>171</u> |

In the above summation of wells drilled, we have included the three oil wells completed in the Tocito Pool. These wells are operated by El Paso Natural Gas Products Company as Sub-Operator for the Lower Gallup Zone (Tocito) of the Rincon Unit Area. During the latter part of 1959 a water injection pressure maintenance program was instituted within the Tocito Participating Area; however, the Tocito Formation did not respond and the water injection program was terminated on November 30, 1963. El Paso Natural Gas Products Company, as the Oil Operator, advises that no drilling is contemplated for the Tocito Formation during the calendar year 1964.

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully submits a proposed Drilling Program providing for the drilling of no wells during the calendar year 1964.

All of the working interest owners have been contacted and this Drilling Program reflects, insofar as possible, their desires for additional drilling.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By   
Sam Smith, Manager  
Land Department

SS:MB:js

APPROVED: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the appropriate  
State Officials.

DATE: \_\_\_\_\_

APPROVED: *A. L. [Signature]*  
Commissioner of Public Lands  
Subject to like approval by the United  
States Geological Survey and the Oil  
Conservation Commission.

DATE: *11-9-64*

APPROVED: *A. L. [Signature]*  
Oil Conservation Commission  
Subject to like approval by the United  
States Geological Survey and the  
Commissioner of Public Lands.

DATE: *11-9-64*

The foregoing approvals are for the 1964 Drilling Program for the Rincon Unit,  
I Sec. No. 916, Rio Arriba County, New Mexico.

RINCON UNIT

Working Interest Owners

Delhi-Taylor Oil Corporation  
Attention: Mr. R. L. Caldwell  
2630 Fidelity Union Tower  
Dallas 1, Texas

El Paso Natural Gas Products Company  
Attention: Mr. Roland Hamblin  
P. O. Box 1161  
El Paso, Texas

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia

Mr. J. Glenn Turner  
1900 Mercantile Dallas Building  
Dallas 1, Texas

Union Oil Company of California (Info. only)  
Attention: Mr. Harry E. Keegan  
619 West Texas Street  
Midland, Texas

MAIN OFFICE OCC

1964 FEB 28 PM 1 : 19

U.S. DEPARTMENT OF THE INTERIOR

1964 JUL 30 PM 1 24

Drawer 1857  
Roswell, New Mexico 88201

July 29, 1964

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

Attention: Mr. Sam Smith

Gentlemen:

Your 1964 plan of development dated February 25, 1964, for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(SRT: WJ) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil & Gas Supervisor

cc:  
Washington (w/cy of plan)  
Farmington (w/cy of plan)  
NMOCC - Santa Fe (ltr. only) ✓  
Com. of Pub. Lands - Santa Fe (ltr. only)

# El Paso Natural Gas Company

El Paso, Texas

January 14, 1964

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

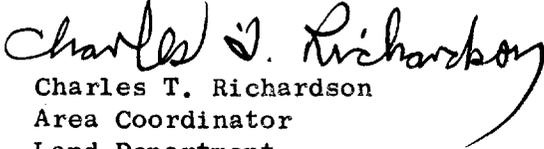
Re: Rincon Unit, I. Sec. No. 916  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF NON-  
COMMERCIAL WELL, Dakota Formation

Gentlemen:

This is to advise you that the captioned Notice of Completion was approved by Mr. Carl C. Traywick, Acting Supervisor of the United States Geological Survey on January 2, 1964.

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

Very truly yours,

  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR:MB:js

Rincon, 4.3.1



IN REPLY REFER TO:

299

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

January 2, 1964

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your notice of December 5 advises that El Paso Natural Gas Company, as unit operator of the Rincon unit, Rio Arriba County, New Mexico, has determined unit well No. 186 on Federal lease Santa Fe 080213 in the SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 33, T. 27 N., R. 7 W., N.M.P.M., as incapable of producing unitized substances in paying quantities from the Dakota formation. The well was completed on October 3, 1963, for a calculated absolute open flow of 1,830 MCF of gas per day from the Dakota 7,300 - 7,448 feet.

We concur with your determination that unit well No. 186 is not capable of producing unitized substances in paying quantities from the Dakota formation under existing conditions.

Sincerely yours,

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

cc:  
Washington (w/cy notice)  
Farmington (w/cy notice)  
NHOCC, Santa Fe (ltr. only) ✓  
Com. Pub. Lands, Santa Fe (ltr. only)

# El Paso Natural Gas Company

El Paso, Texas

December 5, 1963

RECEIVED  
NOV 11 1963

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Re: Rincon Unit, I. Sec. No. 916  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF NON-  
COMMERCIAL WELL, Dakota Formation

Gentlemen:

Pursuant to the provisions of Section 11 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, has determined that the following described well is not capable of producing unitized substances in paying quantities from the Dakota Formation:

The Rincon Unit #186 Well, located 840' from the South line and 1570' from the East line of Section 33, Township 27 North, Range 7 West, Rio Arriba County, New Mexico, was spudded on September 2, 1963, and completed on October 3, 1963, at a total depth of 7549' in the Dakota Formation. The Dakota Formation in the intervals between 7300' - 7308', 7398' - 7406', 7425' - 7429', 7444' - 7448' was treated with a sand-water fracturing process on September 25, 1963. The Dakota Formation was shut-in for gauge on October 10, 1963, and after being shut-in for seven (7) days, the Dakota Formation was tested on October 17, 1963, and after a three (3) hour blow-down period gauged 1791 MCFGPD through a 3/4" choke and 1830 MCFGPD by the calculated absolute open-flow method, with a SIPT of 1510 psia and a SIPC of 1978 psia. *unit 0*

If this determination meets with your approval, please indicate such approval in the space provided and return an approved copy hereof for our files.

RECORDED & INDEXED

Copies of this letter are being sent to the Oil Conservation Commission and the Commissioner of Public Lands of the State of New Mexico, and the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By T. W. Bittick

T. W. Bittick  
Assistant Manager  
Land Department

TWB:MB:js

APPROVED: \_\_\_\_\_  
Supervisor, United States Geological Survey

DATE: \_\_\_\_\_

RINCON UNIT  
Working Interest Owners

Delhi-Taylor Oil Corporation (have WI in gas below Kd and all  
Attention: Mr. R. L. Caldwell oil. No WI in gas above Kd)  
2630 Fidelity Union Tower  
Dallas 1, Texas

El Paso Natural Gas Products Company  
Attention: Mr. Roland Hamblin  
P. O. Box 1161  
El Paso, Texas

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia

Mr. J. Glenn Turner  
1900 Mercantile Dallas Building  
Dallas 1, Texas

Union Oil Company of California (Info. only)  
Attention: Mr. C. F. Bowden  
619 West Texas Street  
Midland, Texas



**EL PASO NATURAL GAS PRODUCTS COMPANY**

POST OFFICE BOX 1161, EL PASO, TEXAS 79999

November 26, 1963

291

Mr. John A. Anderson, Supervisor  
United States Geological Survey  
P. O. Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Rincon Unit I-SEC No. 916  
Water Pressure Maintenance Program  
Tocito Formation, Rio Arriba County  
New Mexico

Gentlemen:

On October 6, 1959, the working interest owners of the captioned formation within the Rincon Unit entered into a contract with Caulkins Oil Company to join the pressure maintenance program which he had previously undertaken. In January, 1960, water injection through the Rincon # 11 well was begun. Production was continued through the Rincon # 6 and # 20 wells.

Since January, 1960, we have been injecting water through the Rincon # 11 into the Tocito Formation at the rate of approximately 20,000 barrels per month. As of November 1, 1963 a total of 916,733 barrels have been injected. Average daily total production from the Rincon # 6 and # 20 wells has been as follows:

| <u>Year</u> | <u>Daily Average</u> |
|-------------|----------------------|
| 1960        | 70.5 barrels/day     |
| 1961        | 38.9 barrels/day     |
| 1962        | 22.5 barrels/day     |
| 1963        | 9.3 barrels/day      |

As you can see, the Tocito Formation under Section 6, Township 26 North, Range 6 West, is not responding to, nor benefitting from, the water injection program. In addition, we must expend approximately \$400 per month for water. We feel that it is no longer economically feasible to continue this injection program.

Permission of 100% of the working interest owners has been secured to cease the water injection and pressure maintenance program for the Tocito formation in the Rincon Unit. Accordingly, this is to advise that El Paso Natural Gas Products Company, on behalf of the unit operator, El Paso Natural Gas Company, will cease the water pressure maintenance program for the South Blanco Tocito formation as of midnight, November 30, 1963.

Yours very truly,

EL PASO NATURAL GAS PRODUCTS COMPANY

By   
W. T. Hollis, Attorney in Fact

WTH: JB: lbt

cc: Working Interest Owners  
Unit Operator

El Paso Natural Gas Company

1963 OCT 25 PM 1 24 El Paso, Texas

October 23, 1963

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit Area, I Sec. No. 916, Rio Arriba County, New Mexico  
TENTH AND ELEVENTH EXPANDED PARTICIPATING AREAS, Dakota Formation  
Effective December 1, 1962 and January 1, 1963, Respectively; and  
NOTICE OF COMPLETION OF ADDITIONAL WELLS, Dakota Formation

Gentlemen:

The above captioned Tenth and Eleventh Expanded Participating Areas of the Dakota Formation for the Rincon Unit were approved by the regulatory bodies as follows:

1. United States Geological Survey - October 10, 1963
2. Commissioner of Public Lands - May 10, 1963
3. Oil Conservation Commission - May 24, 1963

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

Very truly yours,

  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR:MB:fsc

Drawer 1857  
Roswell, New Mexico 88201

October 18, 1963

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your application of May 2, 1963, requesting approval of the tenth and eleventh revisions of the Dakota participating area, Rincon unit agreement, Rio Arriba County, New Mexico, was approved on October 10, 1963, by the Acting Director, Geological Survey. The effective dates of the tenth and eleventh revisions are December 1, 1962, and January 1, 1963, respectively.

One copy of the approved application is enclosed. It is requested that you furnish the State of New Mexico and any other interested party with appropriate evidence of the approval.

Sincerely yours,

(ORIG. SGD.) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil & Gas Supervisor

cc:  
Washington (ltr. only)  
Farmington (w/cy of appin.)  
BLM - Santa Fe (w/cy of appin.)  
NMOCC - Santa Fe (ltr. only) ✓  
Com. of Pub. Lands - Santa Fe (ltr. only)

1963 OCT 21 AM 11 24

MAIN OFFICE OCC

# El Paso Natural Gas Company

El Paso, Texas

June 14, 1963

277

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
AMENDED 1962 DRILLING PROGRAM  
AND 1963 DRILLING PROGRAM

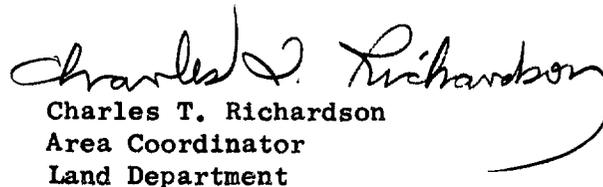
Gentlemen:

The Amended 1962 Drilling Program and 1963 Drilling Program for the Rincon Unit was approved by the regulatory bodies on the following dates:

1. United States Geological Survey - April 16, 1963
2. Commissioner of Public Lands - May 10, 1963
3. Oil Conservation Commission - June 6, 1963

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

Very truly yours,

  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR:MB:ag

OIL CONSERVATION COMMISSION

P. O. BOX 871  
SANTA FE, NEW MEXICO

299

June 6, 1963

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

Attention: Mr. Sam Smith

Re: Amended 1962 Drilling  
Program and 1963 Drilling  
Program Rincon Unit, Rio  
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Amended 1962 Drilling Program and the 1963 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plans is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/ig

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

C  
O  
P  
Y

1963 APR 15 PM 1 27  
Drawer 1857  
Roswell, New Mexico

April 16, 1963

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

Attention: Mr. Sam Smith

Gentlemen:

Your 1963 plan of development dated February 8, 1963, for the Rincon unit area, Rio Arriba County, New Mexico, proposing the drilling of one Dakota well, has been approved on this date subject to like approval by the appropriate State officials.

The Rincon unit area may be subject to drainage. You will be advised by separate letter of any protective wells considered necessary to prevent drainage of unitized substances from the unit area.

Two approved copies of the plan are enclosed.

Very truly yours,

(Orig.Sgd) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

Copy to: Washington (w/cy of plan)  
Farmington (w/cy of Plan)  
NMOCC - Santa Fe (ltr. only) ✓  
Com. of Pub. Lands - Santa Fe (ltr. only)

100-107-1017-57

May 13, 1963

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

Re: Rincon Unit  
Rio Arriba County, New Mexico  
Amended 1962 Drilling Program  
and 1963 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands is approving as of May 10, 1963 your Plan of Development proposing the drilling of one Dakota well during 1963, also approving your Amended 1962 Plan of Development.

Our approval being subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are returning one approved copy of this Program.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mrs.) Marian M. Shea, Supervisory  
Unit Division

ESW/mmr/v

encl:

cc: Oil Conservation Commission

U. S. Department of Interior  
Geological Survey  
Roswell, New Mexico

El Paso Natural Gas Company MAIN OFFICE 000

El Paso, Texas

1963 FEB 13 AM 8 27

February 8, 1963

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
AMENDED 1962 DRILLING PROGRAM  
AND 1963 DRILLING PROGRAM

Gentlemen:

By letter dated March 15, 1962, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1962. This Program provided for the drilling of no wells, but by letter dated May 17, 1962, El Paso Natural Gas Company filed an amendment to the 1962 Drilling Program which provided for the drilling of two (2) Pictured Cliffs wells and eleven (11) Dakota wells. All of the wells provided for in the amended program were drilled; however, the location of the Rincon Unit #172 Dakota Well was changed from the SW/4 of Section 26, Township 27 North, Range 7 West to the NE/4 of the said Section 26.

Sixteen (16) additional wells not included in the 1962 Drilling Program were drilled during 1962. These wells are as follows:

| <u>DRILLING BLOCK AND/OR SPACING UNIT</u> | <u>FORMATION</u> |
|---|------------------|
| ✓(1) NE/4 Sec. 17, T-27-N, R-6-W**        | Dakota           |
| (2) SW/4 Sec. 18, T-27-N, R-6-W*          | Dakota           |
| (3) SW/4 Sec. 19, T-27-N, R-6-W*          | Dakota           |
| (4) NE/4 Sec. 20, T-27-N, R-6-W*          | Dakota           |

| <u>DRILLING BLOCK AND/OR SPACING UNIT</u> | <u>FORMATION</u>                          |
|---|---|
| (5) NE/4 Sec. 31, T-27-N, R-6-W*          | Dakota                                    |
| (6) SW/4 Sec. 13, T-27-N, R-7-W*          | Dakota                                    |
| (7) SW/4 Sec. 14, T-27-N, R-7-W*          | Mesaverde-Dakota<br>(Mesaverde abandoned) |
| (8) SW/4 Sec. 23, T-27-N, R-7-W**         | Dakota                                    |
| (9) SW/4 Sec. 25, T-27-N, R-7-W*          | Dakota                                    |
| ✓ (10) NE/4 Sec. 16, T-27-N, R-6-W**      | Dakota                                    |
| (11) NE/4 Sec. 21, T-27-N, R-6-W*         | Dakota                                    |
| (12) NE/4 Sec. 22, T-27-N, R-6-W*         | Dakota                                    |
| (13) NE/4 Sec. 26, T-27-N, R-6-W*         | Dakota                                    |
| (14) SW/4 Sec. 31, T-27-N, R-6-W*         | Dakota                                    |
| (15) NE/4 Sec. 15, T-27-N, R-7-W*         | Dakota                                    |
| ✓ (16) NE/4 Sec. 22, T-27-N, R-7-W*       | Dakota                                    |

Twenty-nine (29) wells were completed in the Rincon Unit during the calendar year 1962. Two (2) wells were completed in the Pictured Cliffs Formation only. Twenty-six (26) wells were completed in the Dakota Formation only. One (1) well was a dual completion in the Mesaverde and Dakota Formations but the Mesaverde Formation was subsequently abandoned. All of the unit is now included within the Pictured Cliffs Participating Area. The Mesaverde Formation Participating Area will not be expanded by the 1962 Drilling Program. Additional lands proven commercial by Dakota wells drilled under the 1962 Drilling Program will be included within the participating area for the Dakota Formation.

With the completion of the above mentioned wells, the total number of wells in the Rincon Unit is as follows:

|  |            |
|--|------------|
| Pictured Cliffs  | 99         |
| ***Mesaverde   | 19         |
| Dual, Pictured Cliffs-Mesaverde  | 8          |
| Dual, Mesaverde - Dakota   | 6          |
| Dual, Mesaverde - Dakota<br>(in which the Dakota is commercial and the<br>Mesaverde is non-commercial) | 5          |
| ***Dakota  | 30         |
| Dakota, non-commercial   | 1          |
|  | <u>168</u> |

\*Unit development wells

\*\*Step-out wells

\*\*\*This total includes a well (Rincon Unit No. 84 Well, E/2 Section 26, T-27-N, R-7-W), drilled to the Dakota and plugged back to the Mesaverde by Texas National Petroleum Company, et al, and further includes one well (Rincon Unit No. 23 Well, W/2 Section 35, T-27-N, R-7-W) determined to be non-commercial.

\*\*\*\*This total includes two (2) wells (Rincon Unit No. 136, N/2 Section 23, and Rincon Unit No. 133, SW/4 Section 14, both in Township 27 North, Range 7 West) which were scheduled as Mesaverde-Dakota duals, but were completed in the Dakota only.

Pursuant to Section 10 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby submits a proposed Drilling Program for the calendar year of 1963, providing for the drilling of one (1) Dakota well at a location to be selected at a later date that will satisfy any unit obligation for the calendar year of 1963.

In its selection of the location to be drilled, El Paso Natural Gas Company, as Unit Operator, will provide for any offset well required to prevent drainage and if there is no offset requirement, then a well deemed necessary or desirable by the Unit Operator and the working interest owners.

El Paso Natural Gas Company intends to drill the to be selected Dakota well to the base of the Dakota Formation using rotary tools. Surface casing will be set to the depth of approximately 300' and an intermediate string will be run as necessary, through the Pictured Cliffs Formation to a depth of approximately 3200', and then a production casing string will be run to the base of the Dakota Formation. The casing in the Dakota Formation will then be perforated and the Dakota Formation subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing when said casing is run and the hole below the intermediate string of casing will be drilled with either mud or gas. Due care will be taken to protect all horizons.

All of the working interest owners have been contacted and this Drilling Program reflects, insofar as possible, their desires for additional drilling.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By   
Sam Smith, Manager  
Land Department

APPROVED: \_\_\_\_\_  
Supervisor, United States Geological Survey  
Subject to like approval by the appropriate  
State officials.

DATE: \_\_\_\_\_

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

DATE: \_\_\_\_\_

APPROVED: A. H. Porter, Jr.  
Oil Conservation Commission  
Subject to like approval by the United States  
Geological Survey and the Commissioner of  
Public Lands.

DATE: July 6, 1953

The foregoing approvals are for the Amended 1962 Drilling Program and  
1963 Drilling Program for the Rincon Unit, I Sec. No. 916, Rio Arriba  
County, New Mexico.

RINCON UNIT  
Working Interest Owners

Delhi-Taylor Oil Corporation  
Attention: Mr. R. L. Caldwell  
2630 Fidelity Union Tower  
Dallas 1, Texas

El Paso Natural Gas Products Company  
Attention: Mr. Roland Hamblin  
El Paso National Bank Building  
El Paso, Texas

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia

Mr. J. Glenn Turner  
1900 Mercantile Dallas Building  
Dallas 1, Texas

Union Oil Company of California  
Attn: C. F. Bowden  
619 West Texas Street  
Midland, Texas

299

RECEIVED  
MAY 24 AM 11 15

May 23, 1963

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

Re: Rincon Unit  
Rio Arriba County,  
New Mexico

Attention: Mr. Charles T. Richardson

Gentlemen:

We thank you for your letter of May 21, 1963, containing copies of the Initial, First and Second Expansions for the Tocito Formation, Rincon Unit Area, Rio Arriba County, New Mexico.

You perhaps noted that you did not enclose copies of approval by the Commissioner nor the Commission, which probably accounts for the fact that this office did not have copies of these Participating Areas, however, if you do have copies of the Commissioners and the Commissions approval please furnish us copies.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mrs.) Marian M. Rhea, Supervisor  
Unit Division

ESW/mar/v

cc: Oil Conservation Commission

U. S. Department of Interior  
Geological Survey  
Roswell, New Mexico

**CIL CONSERVATION COMMISSION**

P. O. BOX 871

SANTA FE, NEW MEXICO

299

May 23, 1963

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

**Attention: Mr. T. W. Bittick**

**Re: Tenth and Eleventh Expanded  
Participating Areas, Rincon  
Unit, Rio Arriba County,  
New Mexico.**

**Gentlemen:**

**This is to advise that the New Mexico Oil Conservation  
Commission has this date approved the Tenth and Eleventh  
Expanded Participating Areas for the Rincon Unit, Rio Arriba  
County, New Mexico, subject to like approval by the United  
States Geological Survey and the Commissioner of Public Lands  
of the State of New Mexico.**

**Five approved copies of the expansions are being for-  
warded to the United States Geological Survey, Roswell, New  
Mexico.**

**Very truly yours,**

**A. L. PORTER, Jr.,  
Secretary-Director**

**ALP/JEK/ig**

**cc: Commissioner of Public Lands  
Santa Fe, New Mexico**

**United States Geological Survey  
Roswell, New Mexico**

C  
O  
P  
Y

# El Paso Natural Gas Company

El Paso, Texas

May 16, 1963

*244*

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
Rincon Unit #185 Well  
NE/4 Sec. 22, T-27-N, R-7-W,  
N.M.P.M.

---

Gentlemen:

On May 2, 1963, a letter of Notice of Completion of Non-Commercial Well pertaining to subject well was furnished to Mr. John A. Anderson, Regional Oil and Gas Supervisor, for approval. Copies of this letter were also furnished to the Commissioner of Public Lands, the Oil Conservation Commission and to the working interest owners of subject unit for information.

This well was drilled in the NE/4 of said Section 22 and such quarter section was admitted to the Fourth Expanded Participating Area of the Dakota Formation and a Notice of Completion of Non-Commercial Well is therefore not applicable.

We are attaching a Notice of Completion of Additional Well covering the said Rincon Unit #185 Well and we respectfully request that our letter of May 2, 1962 be disregarded and destroyed. A copy of this letter is being furnished to the working interest owners for information.

Very truly yours,

*Charles T. Richardson*  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR: ag  
Enclosure

# El Paso Natural Gas Company

El Paso, Texas

May 16, 1963

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF  
ADDITIONAL WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11 of the Rincon Unit Agreement, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below, that one additional well capable of producing unitized substances from the Dakota Formation has been completed upon acreage committed to the unit. This well is as follows:

The Rincon Unit #185 Well, located 990' from the North line and 990' from the East line of Section 22, Township 27 North, Range 7 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on November 9, 1962, and completed on December 5, 1962, at a total depth of 7594'. The Dakota Formation from 7342' - 7348', 7446' - 7458', 7478' - 7482', 7492' - 7496' was treated with a sand-water fracturing process. This well was reworked to repair casing on February 18, 1963, and such rework was completed on February 22, 1963. After being shut-in for thirteen (13) days, the well was tested on March 7, 1963, and following a three hour blow-down period, the well gauged 1639 MCFGPD through a 3/4" choke and 1777 MCFGPD by the calculated absolute open-flow method, with a SIPT of 1746 psia and a SIPC of 1694 psia.

The committed spacing unit upon which this well is located is described as the E/2 of Section 22, Township 27 North, Range 7 West, N.M.P.M., Rio Arriba County, New Mexico, containing 320.00 acres.

The NE/4 of Section 22 was included in the Rincon Unit Fourth Expanded Participating Area of the Dakota Formation, effective October 1, 1960. The SE/4 of Section 22 is included within the proposed Eleventh Expanded Participating of the Dakota Formation, therefore, the completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



T. W. Bittick  
Assistant Manager  
Land Department

TWB:MB:ag

**RINCON UNIT**  
**Working Interest Owners**

**Delhi-Taylor Oil Corporation**  
**Attention: Mr. R. L. Caldwell**  
**2630 Fidelity Union Tower**  
**Dallas 1, Texas**

**El Paso Natural Gas Products Company**  
**Attention: Mr. Roland Hamblin**  
**P. O. Box 1161**  
**El Paso, Texas**

**Southern Petroleum Exploration, Inc.**  
**Attention: Mr. John C. Wright**  
**P. O. Box 192**  
**Sistersville, West Virginia**

**Mr. J. Glenn Turner**  
**1900 Mercantile Dallas Building**  
**Dallas 1, Texas**

**Union Oil Company of California**  
**Attention: Mr. C. F. Bowden**  
**619 West Texas Street**  
**Midland, Texas**

1963 MAY 23 PM 1:27

May 13, 1963

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

Re: Rincon Unit  
Rio Arriba County, New Mexico  
Tenth and Eleventh Expanded  
Participating Area  
Dakota Formation

Attention: Mr. T. [redacted]

Gentlemen:

The Commissioner of Public Lands has approved as of May 10, 1963, the Tenth and Eleventh Expanded Participating Area, Dakota Formation, Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are hereby in support of this expansion to the Oil Conservation Commission requesting them to forward at least five copies to the United States Geological Survey at Roswell for their consideration.

Very truly yours,

W. H. WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mrs.) Marian M. Rhea, Supervisor  
Unit Division

ESW/mmr/v

cc: Oil Conservation Commission  
Santa Fe, New Mexico

U. S. Department of Interior  
Geological Survey  
Roswell, New Mexico

# El Paso Natural Gas Company

El Paso, Texas

May 8, 1963

MAY 10 1963

STATE OF NEW MEXICO  
SANTA FE

Registered Mail

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Attention: Mrs. Marian M. Rhea

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
TENTH AND ELEVENTH EXPANDED PARTICI-  
PATING AREAS, Dakota Formation,  
Effective December 1, 1962 and  
January 1, 1963, respectively; and  
NOTICE OF COMPLETION OF ADDITIONAL  
WELLS, Dakota Formation

Gentlemen:

Attached are eight (8) copies of the subject Tenth and Eleventh Expanded Participating Areas of the Dakota Formation for the Rincon Unit, together with the appropriate exhibits and geological information.

If these Tenth and Eleventh Expansions meet with your approval, in accordance with our previous agreement, please execute all copies in the space provided and secure the approval of the Oil Conservation Commission on all copies thereof. Upon approval of the Oil Conservation Commission and your office, will you please retain two copies for your files and have the Oil Conservation Commission retain one copy for their files and forward the remaining five copies to the United States Geological Survey for approval.

Very truly yours,



Charles T. Richardson  
Area Coordinator  
Land Department

CTR:MB:js  
Attachments

cc: United States Geological Survey

Oil Conservation Commission

Rincon 4.3

# El Paso Natural Gas Company

El Paso, Texas

May 2, 1963

MAY 10 10 45 AM '63

STATE LAND OFFICE  
SANTA FE, N.M.

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D. C.

Commissioner of Public Lands  
Of the State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
TENTH and ELEVENTH EXPANDED PARTICI-  
PATING AREAS, Dakota Formation,  
Effective December 1, 1962 and  
January 1, 1963, respectively; and  
NOTICE OF COMPLETION OF ADDITIONAL  
WELLS, Dakota Formation

Gentlemen:

Pursuant to Section 11 of the Rincon Unit Agreement, I Sec. No. 916, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, submits for your approval the Tenth and Eleventh Expanded Participating Areas of the Dakota Formation, Rincon Unit, Rio Arriba County, New Mexico, which include in addition to the lands previously admitted to the Dakota Participating Area, the following selection of lands estimated to be productive in paying quantities from the Dakota Formation:

TENTH EXPANSION EFFECTIVE DECEMBER 1, 1962

Township 27 North, Range 7 West

Section 36: E/2

Township 26 North, Range 7 West

Section 1: E/2

Containing 640.20 acres, more or less.

The lands described above are proven to be productive by the following wells:

The Rincon Unit #168 Well, located 1190' from the North line and 1190' from the East line of Section 36, Township 27 North, Range 7 West, Rio Arriba County, New Mexico was spudded on September 25, 1962, and completed on November 19, 1962 at a total depth of 7548'. The Dakota Formation from 7262' - 7266', 7278' - 7284', 7370' - 7382', 7420' - 7426', 7456' - 7462' was treated with a sand-water fracturing process. The well was shut-in on November 19, 1962, and after being shut-in for fifteen (15) days the Dakota Formation was tested on December 4, 1962, and following a three (3) hour blow-down period gauged 4885 MCFGPD through a 3/4" choke and 5727 MCFGPD by the calculated absolute open-flow method with a SIPT of 2562 psia and a SIPC of 2489 psia.

The Rincon Unit #57 Well, located 990' from the North line and 990' from the East line of Section 1, Township 26 North, Range 7 West, Rio Arriba County, New Mexico was originally spudded on August 27, 1955, and completed on July 5, 1956, after rework, at a total depth of 7530'. The well was shut-in on July 26, 1956, and after being shut-in for fourteen (14) days was tested on August 9, 1956, and gauged 346 MCFGPD through a 3/4" choke and 346 MCFGPD by the calculated absolute open-flow method, with a SIPT of 2472 psig and a SIPC of 2492 psig. The productive Dakota interval in the well was again worked over in October, 1957, and was tested on November 11, 1957. After a three (3) hour blow-down period the well gauged 2161 MCFGPD through a 3/4" choke and 2242 MCFGPD by the calculated absolute open-flow method with a SIPT of 2272 psia and a SIPC of 2300 psia.

The Rincon Unit #57 Well was originally determined to be non-commercial, however, a review of the actual performance of this well since its recompletion and a re-evaluation of the core analysis and electric logs indicates that the well should now be reclassified as commercial. The production data relied upon is as follows:

The well was first delivered in December, 1957, and through December of 1961 produced 351,710 MCF. During 1962 the well produced 159.6 days for a total volume of 71,466 MCF, an average of 448 MCF/D. In addition, condensate production during 1962 was 430 barrels for a liquid ratio of 6 barrels of condensate per million cubic feet of gas.

The redetermination of commerciality of this well was made through a study conducted during the month of December, 1962. Therefore, in accordance with the provisions of Section 11 of the Unit Agreement the acreage proven productive by the Rincon Unit #57 Well will be admitted to the Dakota Participating Area effective December 1, 1962. Necessary working interest owner approval of this commercial determination of the acreage proven has been obtained.

ELEVENTH EXPANSION EFFECTIVE JANUARY 1, 1963

Township 27 North, Range 7 West

Section 22: SE/4

Section 23: SW/4

Containing 320.00 acres, more or less.

The lands described above are proven to be productive by the following well:

The Rincon Unit #178 Well, located 1450' from the South line and 1850' from the West line of Section 23, Township 27 North, Range 7 West, Rio Arriba County, New Mexico was spudded on September 16, 1962, and completed on October 14, 1962 at a total depth of 7629'. The Dakota Formation from 7322' - 7328', 7340' - 7346', 7446' - 7452', 7474' - 7478', 7488' - 7492' was treated with a sand-water fracturing process. The well was shut-in on December 31, 1962, and after being shut-in for eight (8) days the Dakota Formation was tested on January 8, 1963, and following a three (3) hour blow-down period gauged 5838 MCFGPD through a 3/4" choke and 7192 MCFGPD by the calculated absolute open-flow method with a SIPT of 2447 psia and a SIPC of 2467 psia.

In support of these applications, the following listed Exhibits are made a part hereof:

Exhibit "A"

Ownership map reflecting the boundaries of the Unit and the proposed Tenth and Eleventh Expansions of the Dakota Participating Area.

Exhibit "B"

Geological report on the Tenth and Eleventh Expansions of the Dakota Participating Area within the Rincon Unit.

Exhibit "C"

Structural Contour Maps.

Exhibit "D"

Schedules of Dakota Gas Production.

Attached are Schedules XI and XII showing the Tenth and Eleventh Expanded Participating Areas for the Dakota Formation of the Rincon Unit Area. These Schedules describe the Expanded Participating Areas, show the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownership in said tract. Inasmuch as Section 11 of the Unit Agreement provides that, "The effective date of any revision shall be the first of the month in which is obtained the knowledge or information on which such revision is predicated unless a more appropriate effective date is specified in the schedule," the Tenth Expanded Participating Area will become effective December 1, 1962, and the Eleventh Expanded Participating Area will become effective January 1, 1963.

If these Tenth and Eleventh Expanded Participating Areas meet with your approval, please indicate such approval in the space provided on the attached page and return an approved copy for our files.

Further, pursuant to Section 11 of the Rincon Unit Agreement, El Paso Natural Gas Company, as Unit Operator, has determined on the dates indicated that two (2) additional wells capable of producing unitized substances from the Dakota Formation have been completed upon acreage committed to the Rincon Unit.

These wells are as follows:

The Rincon Unit #139 Well, located 1650' from the South line and 1650' from the West line of Section 25, Township 27 North, Range 7 West, Rio Arriba County, New Mexico, was spudded on November 26, 1962, and completed on December 18, 1962, at a total depth of 7621'. The Dakota Formation from 7352' - 7358', 7462' - 7474', 7494' - 7506', 7531' - 7537' was treated with a sand-water fracturing process. The well was shut-in on December 18, 1962, and after being shut-in for ten (10) days the Dakota Formation was tested on December 28, 1962, and following a three (3) hour blow-down period gauged 2370 MCFGPD through a 3/4" choke and 2552 MCFGPD by the calculated absolute open-flow method, with a SIPT of 1710 psia and a SIPC of 2560 psia. The determination that this well is capable of producing unitized substances in paying quantities from the Dakota Formation was made on December 28, 1962.

The Rincon Unit #184 Well, located 1022' from the North line and 890' from the East line of Section 15, Township 27 North, Range 7 West, Rio Arriba County, New Mexico, was spudded on October 15, 1962, and completed on December 5, 1962, at a total depth of 7873'. The Dakota Formation from 7599' - 7605', 7618' - 7630', 7724' - 7728', 7740' - 7744', 7758' - 7762' was treated with a sand-water fracturing process. After being shut-

in for twenty-three (23) days, the Dakota Formation was tested on December 28, 1962, and following a three (3) hour blow-down period gauged 4929 MCFGPD through a 3/4" choke and 5856 MCFGPD by the calculated absolute open-flow method with a SIPT of 2378 psia and a SIPC of 2177 psia. The determination that this well is capable of producing unitized substances in paying quantities from the Dakota Formation was made on December 28, 1962.

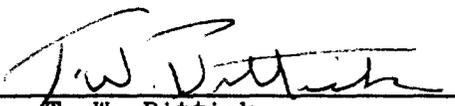
The acreage upon which the Rincon Unit #184 Well is located was included in the Fourth Expanded Participating Area for the Dakota Formation, effective October 1, 1960, and the Rincon Unit #139 Well is located within the area included in the Eighth Expanded Participating Area for the Dakota Formation, effective August 1, 1962. Therefore, the Participating Areas are not enlarged and the percentages allocated to the various tracts will remain the same.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

  
T. W. Bittick  
Assistant Manager  
Land Department

TWB:MB:js

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
United States Geological Survey  
Subject to like approval by the  
appropriate State Officials.

APPROVED: *Esmeralda* DATE: May 10, 1963  
Commissioner of Public Lands  
Subject to like approval by the United  
States Geological Survey and the Oil  
Conservation Commission.

APPROVED: *A. L. Carter Jr.* DATE: 5/24/63  
Oil Conservation Commission  
Subject to like approval by the United  
States Geological Survey and the  
Commissioner of Public Lands.

The foregoing approvals are for the approval of the Tenth and Eleventh  
Expanded Participating Areas of the Dakota Formation, Rincon Unit, Rio  
Arriba County, New Mexico.

RINCON UNIT  
Working Interest Owners

Delhi-Taylor Oil Corporation  
Attention: Mr. R. L. Caldwell  
2630 Fidelity Union Tower  
Dallas 1, Texas

El Paso Natural Gas Products Company  
Attention: Mr. Roland Hamblin  
P. O. Box 1161  
El Paso, Texas

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia

Mr. J. Glenn Turner  
1900 Mercantile Dallas Building  
Dallas 1, Texas

Union Oil Company of California  
Attention: Mr. C. F. Bowden  
619 West Texas Street  
Midland, Texas

El Paso Natural Gas Company

El Paso, Texas

April 25, 1963

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
NINTH EXPANDED PARTICIPATING AREA,  
Dakota Formation,  
Effective October 1, 1962

Gentlemen:

This is to advise that the above captioned Expansion was approved by the regulatory bodies on the following dates:

1. Acting Director, United States Geological Survey on March 29, 1963.
2. Commissioner of Public Lands on February 20, 1963.
3. Oil Conservation Commission on February 14, 1963.

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

Very truly yours,

*Charles T. Richardson*  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR:MB:ag  
Rincon 4.3

299

Drawer 1857  
Roswell, New Mexico

1:20 APR 15 AM '63

April 15, 1963

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your application of February 5, 1963, requesting approval of the ninth revision of the Dakota participating area for the Rincon unit, Rio Arriba County, New Mexico, was approved on March 29, 1963, by the Acting Director, Geological Survey, effective as of October 1, 1962.

One approved copy of the application is enclosed. You are requested to furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

Copy to: Washington (ltr. only)  
Farmington (w/cy of appln.)  
BLM, Santa Fe (w/cy of appln.)  
NMOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

RECEIVED

MAR 13 1963

El Paso Natural Gas Company

299

El Paso, Texas

March 13, 1963

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
SEVENTH and EIGHTH EXPANDED  
PARTICIPATING AREAS, Dakota  
Formation, Effective July 1,  
1962 and August 1, 1962

Gentlemen:

This is to advise you that the above captioned Seventh and Eighth Expanded Participating Areas of the Rincon Unit were approved by the regulatory bodies on the following dates:

- United States Geological Survey - March 1, 1963
- Commissioner of Public Lands - January 9, 1963
- Oil Conservation Commission - December 5, 1962

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

Very truly yours,

*Charles T. Richardson*  
Charles T. Richardson  
Area Coordinator  
Land Department

241  
1939 11/17  
Prayer 1857  
Roswell, New Mexico

March 8, 1963

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your composite application of November 29, 1962, requesting approval of the seventh and eighth revisions of the Dakota participating area, Rincon unit, Rio Arriba County, New Mexico, effective as of July 1 and August 1, 1962, respectively, was approved on March 1, 1963, by the Acting Director of the Geological Survey.

One approved copy of the application is enclosed. You are requested to furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Very truly yours,

(Orig. Sig.) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

Copy to: Washington (ltr. only)  
ELM - Santa Fe (w/cy of app. appln.)  
Farmington (w/cy of app. appln.)  
NMOCC - Santa Fe (ltr. only)  
Com. of Pub. Lands - Santa Fe (ltr. only)

OFFICE OCC

299

1963 MAR 4 PM 1 35

February 20, 1963

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

Re: Rincon Unit, Rio  
Arriba County, New  
Mexico, Ninth  
Expanded Participating  
Area, Dakota Formation

Attention: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has approved as of February 20, 1963, the Ninth Expanded Participating Area, Dakota Formation for the Rincon Unit Area, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

We are returning five approved copies of this expansion.

Very truly yours,

E. S. Johnny Walker  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mrs.) Marian M. Shea  
Supervisor, Unit Division

ESW/nmr/e

encl:

cc:

United States Geological Survey  
Roswell, New Mexico  
Oil Conservation Commission  
Santa Fe, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 871  
SANTA FE, NEW MEXICO

299

February 14, 1963

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

Attention: Mr. T. W. Bittick

Re: Ninth Expanded Participating  
Area, Dakota Formation  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Ninth Expanded Participating Area, Dakota Formation for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Seven approved copies of the expansion are being forwarded to the Commissioner of Public Lands.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/ig

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

C  
O  
P  
Y

El Paso Natural Gas Company

1963 FEB 13 El Paso, Texas

February 11, 1963

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
NINTH EXPANDED PARTICIPATING AREA,  
Dakota Formation,  
Effective October 1, 1962

Gentlemen:

Attached are eight (8) copies of the subject expansion of the Rincon Unit, together with map exhibits and geological information.

It is requested, upon your approval, that you kindly sign all copies in the space provided, retaining one (1) copy of the expansion and attached exhibits and forwarding the remaining seven (7) copies to the Commissioner of Public Lands for the State of New Mexico. By copy of this letter we are requesting the Commissioner of Public Lands, upon his approval, to forward five (5) approved copies to Mr. John Anderson, United States Geological Survey, Roswell, New Mexico.

Very truly yours,

  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR:MB:js  
Enclosures

cc: Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas

February 5, 1963

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D. C.

Commissioner of Public Lands  
Of the State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
NINTH EXPANDED PARTICIPATING AREA,  
Dakota Formation,  
Effective October 1, 1962

Gentlemen:

Pursuant to Section 11 of the Rincon Unit Agreement, I Sec. No. 916, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, submits for your approval the Ninth Expanded Participating Area of the Dakota Formation, Rincon Unit, Rio Arriba County, New Mexico, which includes in addition to the lands previously admitted to the Dakota Participating Area, the following selection of lands estimated to be productive in paying quantities from the Dakota Formation:

NINTH EXPANSION EFFECTIVE OCTOBER 1, 1962

Township 27 North, Range 6 West

Section 16: N/2

Section 17: N/2

The lands described above are proven to be productive by the following wells:

The Rincon Unit #179 Well, located 1490' from the North line and 1540' from the East line of Section 16, Township 27 North, Range 6 West, Rio Arriba

County, New Mexico was spudded on August 18, 1962, and completed on September 21, 1962 at a total depth of 7819'. The Dakota Formation from 7519' - 7523', 7537' - 7541', 7632' - 7636', 7648' - 7652', 7688' - 7692' was treated with a sand-water fracturing process. The well was shut-in on September 21, 1962, and after being shut-in for fourteen (14) days the Dakota Formation was tested on October 5, 1962, and following a three (3) hour blow-down period gauged 2992 MCFGPD through a 3/4" choke and 3201 MCFGPD by the calculated absolute open-flow method with an SIPT of 2645 psia and an SIPC of 2630 psia.

The Rincon Unit #161 Well, located 1450' from the North line and 1000' from the East line of Section 17, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded September 22, 1962, and completed on October 13, 1962, at a total depth of 7740'. The Dakota Formation from 7440' - 7444', 7464' - 7468', 7552' - 7564', 7600' - 7604', 7642' - 7646' was treated with a sand-water fracturing process. The well was shut-in on October 13, 1962, and after being shut-in for ten (10) days the Dakota Formation was tested on October 23, 1962, and following a three (3) hour blow-down period gauged 4162 MCFGPD through a 3/4" choke and 4618 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2273 psia and an SIPC of 2490 psia.

In support of these applications, the following listed Exhibits are made a part hereof:

Exhibit "A"

Ownership map reflecting the boundaries of the Unit and the proposed Ninth Expansion of the Dakota Participating Area.

Exhibit "B"

Geological report on the Ninth Expansion of the Dakota Participating Area within the Rincon Unit.

Exhibit "C"

Structural Contour Maps

Exhibit "D"

Schedule of Dakota Gas Production

Attached is Schedule X showing the Ninth Expanded Participating Area for the Dakota Formation of the Rincon Unit Area. The Schedule describes the Expanded Participating Area, shows the percentage of unitized

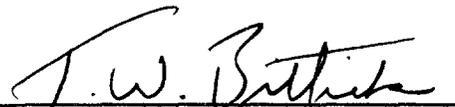
substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownership in said tract. Inasmuch as Section 11 of the Unit Agreement provides that, "The effective date of any revision shall be the first of the month in which is obtained the knowledge or information on which such revision is predicated unless a more appropriate effective date is specified in the schedule," the Ninth Expanded Participating Area will become effective October 1, 1962.

If this Ninth Expanded Participating Area meets with your approval, please indicate such approval in the space provided on the attached page and return an approved copy for our files.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By   
T. W. Bittick  
Assistant Manager  
Land Department

TWB:MB:js

APPROVED: United States Geological Survey  
Subject to like approval by the  
appropriate State Officials.

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: 2-14-63

The foregoing approvals are for the approval of the Ninth Expanded  
Participating Area of the Dakota Formation, Rincon Unit, Rio Arriba,  
County, New Mexico

**RINCON UNIT**  
**Working Interest Owners**

**Delhi-Taylor Oil Corporation**  
**Attention: Mr. R. L. Caldwell**  
**2630 Fidelity Union Tower**  
**Dallas 1, Texas**

**El Paso Natural Gas Products Company**  
**Attention: Mr. Roland Hamblin**  
**El Paso National Bank Building**  
**El Paso, Texas**

**Southern Petroleum Exploration, Inc.**  
**Attention: Mr. John C. Wright**  
**P. O. Box 192**  
**Sistersville, West Virginia**

**Mr. J. Glenn Turner**  
**1900 Mercantile Dallas Building**  
**Dallas 1, Texas**

**Union Oil Company of California**  
**Attention: Mr. C. F. Bowden**  
**619 West Texas Street**  
**Midland, Texas**

299

MAIN OFFICE OCS Natural Gas Company

1963 JAN 24 PM 1:53 Paso, Texas

January 21, 1963

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
FIFTH AND SIXTH EXPANDED PARTICI-  
PATING AREAS, Dakota Formation,  
Effective November 1, 1961 and  
June 1, 1962.

Gentlemen:

This is to advise you that the above captioned Fifth and Sixth Expanded Participating Areas of the Rincon Unit were approved by the regulatory bodies on the following dates:

United States Geological Survey - January 10, 1963  
Commissioner of Public Lands - November 27, 1962  
Oil Conservation Commission - November 2, 1962

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

Very truly yours,

*Charles T. Richardson*  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR:MB:js

MAIN OFFICE OCC

Drawer 1857

1963 JAN 15 1962  
Socorro, New Mexico

January 15, 1963

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your application of October 29, 1962, for the fifth and sixth revisions of the Dakota participating area, Rincon unit agreement, Rio Arriba County, New Mexico, was approved by the Acting Director of the Geological Survey on January 10, 1962, effective as of November 1, 1961, and June 1, 1962, respectively.

One approved copy of the application is enclosed. You are requested to furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

Copy to: Washington (ltr. only)  
Farmington (w/cy of appln.)  
BLM - Santa Fe (w/cy of appln.)  
NMOCC - Santa Fe (ltr. only) ✓  
Comm. of Pub. Lands - Santa Fe (ltr. only)

EL PASO OFFICE OCC  
1963 JAN 11 AM 10 57

January 9, 1963

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

Re: Rincon Unit, Rio  
Arriba County, New  
Mexico, Seventh &  
Eighth Expanded  
Participating Areas,  
Dakota Formation,  
Effective July 1, 1962  
and August 1, 1962

Attention: Mr. Charles T. Richardson

Gentlemen:

The Commissioner of Public Lands has approved the  
Seventh and Eighth Expanded Participating Area, Dakota  
Formation, Rincon Unit Area, Rio Arriba County, New Mexico.

We are forwarding five approved copies to Mr. John A.  
Anderson, Regional Oil and Gas Supervisor, U. S. Geological  
Survey, Roswell, New Mexico, for his consideration.

Very truly yours,

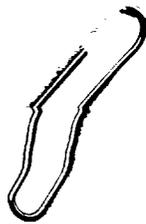
E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mrs.) Marian M. Rhea, Supervisor  
Unit Division

ESW/mm/v

cc: Oil Conservation Commission  
Santa Fe, New Mexico

U. S. Geological Survey  
Roswell, New Mexico



OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

299

December 5, 1962

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

Attention: Mr. T. W. Bittick

Re: Seventh and Eighth  
Expansions Dakota  
Participating Area  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Seventh and Eighth Expansions of the Dakota Participating Area for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Seven approved copies of the expansions are being forwarded to the Commissioner of Public Lands.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEM/ig

cc: U. S. Geological Survey  
Roswell, New Mexico

Commissioner of Public Lands  
Santa Fe, New Mexico

C  
O  
P  
Y

# El Paso Natural Gas Company

El Paso, Texas

November 30, 1962

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

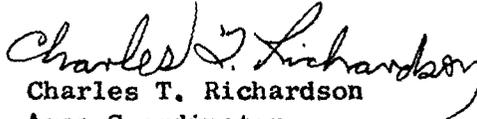
Re: Rincon Unit  
Rio Arriba County, New Mexico  
Seventh and Eighth Expanded  
Participating Areas, Dakota  
Formation, Effective July 1,  
1962 and August 1, 1962

Gentlemen:

Attached are eight (8) copies of the subject expansions of the Rincon Unit, together with map exhibits and geological information.

It is requested, upon your approval, that you kindly sign all copies in the space provided, retaining one (1) copy of the expansions and attached exhibits and forwarding the remaining seven (7) copies to the Commissioner of Public Lands for the State of New Mexico. By copy of this letter we are requesting the Commissioner of Public Lands, upon his approval, to forward five (5) approved copies to Mr. John Anderson, United States Geological Survey, Roswell, New Mexico.

Very truly yours,

  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR:MB:ag  
Enclosures

cc: Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

# El Paso Natural Gas Company

El Paso, Texas

November 29, 1962

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D. C.

Commissioner of Public Lands  
Of the State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
SEVENTH and EIGHTH EXPANDED  
PARTICIPATING AREAS, Dakota  
Formation, Effective July 1,  
1962 and August 1, 1962

Gentlemen:

Pursuant to Section 11 of the Rincon Unit Agreement, I Sec. No. 916, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, submits for your approval the Seventh and Eighth Expanded Participating Areas of the Dakota Formation, Rincon Unit, Rio Arriba County, New Mexico, which includes in addition to the lands previously admitted to the Dakota Participating Area, the following selection of lands estimated to be productive in paying quantities from the Dakota Formation:

SEVENTH EXPANSION EFFECTIVE JULY 1, 1962

Township 27 North, Range 6 West

Section 23: All

Township 27 North, Range 7 West

Section 25: E/2

The lands described above are proven to be productive by the following wells:

The Rincon Unit #173 Well, located 790' from the South line and 1190' from the West line of Section 23, Township 27 North, Range 6 West, Rio Arriba County, New Mexico was spudded on June 18, 1962, and completed on July 14, 1962 at a total depth of 7733'. The Dakota Formation from 7448' - 7452', 7472' - 7476', 7535' - 7539', 7570' - 7576', 7626' - 7632' was treated with a sand-water fracturing process. The well was shut-in on July 14, 1962, and after being shut-in for ten (10) days the well was tested on July 24, 1962, and gauged 4785 MCF/D AOF.

The Rincon Unit #138 Well, located 890' from the North line and 790' from the East line of Section 25, Township 27 North, Range 7 West, Rio Arriba County, New Mexico, was spudded June 12, 1962 and completed on July 7, 1962 at a total depth of 7789'. The Dakota Formation from 7476' - 7480', 7490' - 7494', 7582' - 7586', 7598' - 7602', 7622' - 7626', 7638' - 7642', 7662' - 7666', 7680' - 7684' was treated with a sand-water fracturing process. The well was shut-in on July 7, 1962, and after being shut-in for twelve (12) days the well was tested on July 19, 1962, and gauged 5,195 MCF/D AOF.

EIGHTH EXPANSION EFFECTIVE AUGUST 1, 1962

Township 27 North, Range 6 West

Section 17: S/2

Section 18: All

Township 27 North, Range 7 West

Section 25: W/2

Section 26: N/2

The lands described above are proven to be productive by the following wells:

The Rincon Unit #155 Well, located 990' from the South line and 590' from the West line of Section 17, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on June 7, 1962, and completed July 26, 1962, at a total depth of 7688'. The Dakota Formation from 7363' - 7367', 7376' - 7380', 7405' - 7409', 7486' - 7492', 7532' - 7536', 7554' - 7558', 7572' - 7578' was treated with a sand-water fracturing process. The well was shut-in on July 27, 1962, and after being shut-in for nineteen (19) days the well was tested on August 15, 1962 and gauged 2879 MCF/D AOF.

The Rincon Unit #172 Well, located 950' from the North line and 1650' from the East line of Section 26, Township 27 North, Range 7 West, Rio Arriba County, New Mexico, was spudded July 8, 1962, and completed on August 12, 1962, at a total depth of 7719'. The Dakota Formation from 7434' - 7440', 7456' - 7462', 7552' - 7558', 7582' - 7588', 7604' - 7608', 7614' - 7618', was treated with a sand-water fracturing process. The well was shut-in on August 12, 1962 and after being shut-in for twelve (12) days the well was tested on August 24, 1962, and gauged 3794 MCF/D AOF.

The Rincon Unit #159 Well, located 1700' from the North line and 1720' from the East line of Section 18, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was declared non-commercial in a letter dated July 28, 1961, to Mr. John A. Anderson of the United States Geological Survey. Based upon the performance of this well, it now appears that the well should be reclassified as commercial.

In support of these applications, the following listed Exhibits are made a part hereof:

**Exhibit "A"**

Ownership map reflecting the boundaries of the Unit and the proposed Seventh and Eighth Expansions of the Dakota Participating Area.

**Exhibit "B"**

Geological report on the Seventh and Eighth Expansions of the Dakota Participating Area.

**Exhibit "C"**

Structural Contour Maps

**Exhibit "D"**

Schedule of Dakota Gas Production

Attached are Schedules VIII and IX showing the Seventh and Eighth Expanded Participating Areas for the Dakota Formation of the Rincon Unit Area. These describe the Expanded Participating Areas, show the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownership in said tract. Inasmuch as Section 11 of the Unit Agreement provides that, "The effective date of any revision shall be the first of the month in which is obtained the knowledge or information on which such revision is predicated unless a more appropriate effective date is specified in the schedule," the

Seventh Expanded Participating Area will become effective July 1, 1962 and the Eighth Expanded Participating Area will become effective August 1, 1962. If these Seventh and Eighth Expanded Participating Areas meet with your approval, please indicate such approval in the space provided on the attached page and return an approved copy for our files.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By T. W. Bittick  
T. W. Bittick  
Assistant Manager  
Land Department

TWB:AJM:ag  
Attachments

**RINCON UNIT**  
**Working Interest Owners**

**Delhi-Taylor Oil Corporation**  
**Attention: Mr. R. L. Caldwell**  
**2630 Fidelity Union Tower**  
**Dallas 1, Texas**

**El Paso Natural Gas Products Company**  
**Attention: Mr. Roland Hamblin**  
**Luther Building**  
**El Paso, Texas**

**Southern Petroleum Exploration, Inc.**  
**Attention: Mr. John C. Wright**  
**P. O. Box 192**  
**Sistersville, West Virginia**

**Mr. J. Glenn Turner**  
**1900 Mercantile Dallas Building**  
**Dallas 1, Texas**

**Texas National Petroleum Company**  
**Attention: Mr. L. C. Oldham, Jr., Vice President**  
**410 Pierce Avenue**  
**Houston 3, Texas**

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
United States Geological Survey  
Subject to like approval by the appropriate  
State Officials.

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

APPROVED:  \_\_\_\_\_ DATE 12-5-61  
Oil Conservation Commission  
Subject to like approval by the United States  
Geological Survey and the Commissioner of  
Public Lands.

The foregoing approvals are for the approval of the Seventh and Eighth  
Expanded Participating Areas of the Dakota Formation, Rincon Unit,  
Rio Arriba County, New Mexico.

El Paso Natural Gas Company

El Paso, Texas

299

November 2, 1962

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit  
Amendment to 1962 Drilling Program  
Rio Arriba County, New Mexico

Gentlemen:

The Amendment to the 1962 Drilling Program for the Rincon Unit was approved by the regulatory bodies on the following dates:

1. United States Geological Survey - 6-6-62
2. Commissioner of Public Lands - 6-6-62
3. Oil Conservation Commission - 10-24-62

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

Very truly yours,

*Charles T. Richardson*  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR: AJM: js

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

299

November 2, 1962

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

Attention: Mr. C. T. Richardson

Re: Fifth and Sixth Expanded  
Participating Areas Dakota  
Formation Rincon Unit, Rio  
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Fifth and Sixth Expanded Participating Areas, for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Seven approved copies of the expansions are being forwarded to the Commissioner of Public Lands.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/ig

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

United States Geological Survey  
Roswell, New Mexico

C  
O  
P  
Y

# El Paso Natural Gas Company

El Paso, Texas

October 29, 1962

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit  
Rio Arriba County, New Mexico  
Fifth and Sixth Expanded  
Participating Areas, Dakota  
Formation, Effective November 1,  
1961 and June 1, 1962

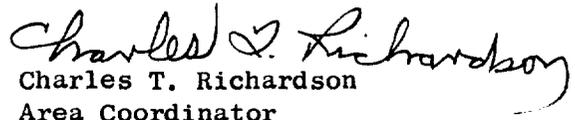
---

Gentlemen:

Attached are eight (8) copies of the subject expansions of the Rincon Unit, together with map exhibits and geological information.

It is requested, upon your approval, that you kindly sign all copies in the space provided, retaining one (1) copy of the expansions and attached exhibits and forwarding the remaining seven (7) copies to the Commissioner of Public Lands for the State of New Mexico. By copy of this letter we are requesting the Commissioner of Public Lands, upon his approval, to forward five (5) approved copies to Mr. John Anderson, United States Geological Survey, Roswell, New Mexico.

Very truly yours,

  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR:AJM:ag  
Enclosures

cc: Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas

October 29, 1962

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D. C.

Commissioner of Public Lands  
Of the State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
FIFTH and SIXTH EXPANDED  
PARTICIPATING AREAS, Dakota  
Formation, Effective November 1,  
1961 and June 1, 1962.

---

Gentlemen:

Pursuant to Section 11 of the Rincon Unit Agreement, I Sec. No. 916, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, submits for your approval the Fifth and Sixth Expanded Participating Areas of the Dakota Formation, Rincon Unit, Rio Arriba County, New Mexico, which includes in addition to the lands previously admitted to the Dakota Participating Area, the following selection of lands estimated to be productive in paying quantities from the Dakota Formation:

FIFTH EXPANSION EFFECTIVE NOVEMBER 1, 1961

Township 27 North, Range 6 West

Section 21: S/2

Section 22: All

The lands described above are proven to be productive by the following well:

The Rincon Unit #158 Well, located 1090' from the South line and 1460' from the West line of Section 22,

Township 27 North, Range 6 West, Rio Arriba County, New Mexico was spudded on September 15, 1961, and completed on October 11, 1961 at a total depth of 7673'. The Dakota Formation from 7376' - 7384', 7402' - 7410', 7420' - 7428', 7462' - 7470', 7496' - 7504', 7510' - 7518', 7542' - 7546', 7552' - 7556', 7562' - 7566', 7574' - 7578' was treated with a sand-water fracturing process. The well was shut-in on October 11, 1961, and after being shut-in for twenty-three (23) days the well was tested on November 3, 1961, and gauged 3929 MCF/D AOF.

SIXTH EXPANSION EFFECTIVE JUNE 1, 1962

Township 27 North, Range 6 West

Section 16: S/2

Section 21: N/2

Section 20: N/2

The lands described above are proven to be productive by the following well:

The Rincon Unit #156 Well, located 1090' from the South line and 1050' from the West line of Section 16, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on May 12, 1962, and completed June 5, 1962, at a total depth of 7814'. The Dakota Formation from 7502' - 7506', 7619' - 7627', 7674' - 7678', 7698' - 7700' was treated with a sand-water fracturing process. The well was shut-in on June 5, 1962, and after being shut-in for eight (8) days the well was tested on June 13, 1962 and gauged 3196 MCF/D AOF.

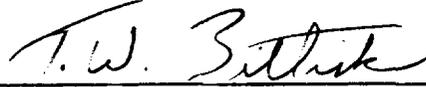
Attached are Schedules VI and VII showing the Fifth and Sixth Expanded Participating Areas for the Dakota Formation of the Rincon Unit Area. These describe the Expanded Participating Areas, show the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownership in said tract. Inasmuch as Section 11 of the Unit Agreement provides that, "The effective date of any revision shall be the first of the month in which is obtained the knowledge or information on which such revision is predicated unless a more appropriate effective date is specified in the schedule," the Fifth Expanded Participating Area will become effective November 1, 1961 and the Sixth Expanded Participating Area will become effective June 1, 1962. If these Fifth and Sixth Expanded Participating Areas meet with your approval, please indicate such approval in the space provided on the attached page and return an approved copy for our files.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



T. W. Bittick  
T. W. Bittick  
Assistant Manager  
Land Department

TWB:AJM:ag  
Attachments

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
United States Geological Survey  
Subject to like approval by the appropriate  
State Officials.

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

APPROVED: *A. H. Patten* DATE 11-2-62  
Oil Conservation Commission  
Subject to like approval by the United States  
Geological Survey and the Commissioner of  
Public Lands.

The foregoing approvals are for the approval of the Fifth and Sixth  
Expanded Participating Areas of the Dakota Formation, Rincon Unit,  
Rio Arriba County, New Mexico.

RINCON UNIT  
Working Interest Owners

Delhi-Taylor Oil Corporation  
Attention: Mr. R. L. Caldwell  
2630 Fidelity Union Tower  
Dallas 1, Texas

El Paso Natural Gas Products Company  
Attention: Mr. Roland Hamblin  
Luther Building  
El Paso, Texas

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia

Mr. J. Glenn Turner  
1900 Mercantile Dallas Building  
Dallas 1, Texas

Texas National Petroleum Company  
Attention: Mr. L. C. Oldham, Jr., Vice President  
410 Pierce Avenue  
Houston 3, Texas

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

299

October 24, 1962

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

Attention: Mr. Sam Smith

Re: Amendment to the 1962  
Drilling Program Rincon  
Unit, Rio Arriba County,  
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Amendment to the 1962 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the amended plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/ig

cc: Commissioner of Public Lands - Santa Fe

United States Geological Survey - Roswell

C  
O  
P  
Y

# El Paso Natural Gas Company

El Paso, Texas

October 10, 1962

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.

Re: Rincon Unit Area  
Rio Arriba County, New Mexico

Gentlemen:

Upon checking our records we find that you have not approved our 1962 Amended Drilling Program for the captioned unit. If the revised program meets with your approval, please sign one copy of our letter dated May 17, 1962 and return same to this office.

By copy of this letter we are advising the United States Geological Survey and the Commissioner of Public Lands that the Dakota well previously scheduled to be drilled in the SW/4 of Section 26, Township 27 North, Range 7 West, will now be drilled in the NE/4 of said Section 26.

Very truly yours,

*Charles T. Richardson*

Charles T. Richardson  
Area Coordinator  
Land Department

CTR:AJM:ag

cc: United States Geological Survey

Commissioner of Public Lands

Rincon Unit 3.0

# El Paso Natural Gas Company

El Paso, Texas

May 17, 1962

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P.O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P.O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
Amendment to the 1962 Drilling Program

Gentlemen:

By letter dated March 5, 1962, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1962 providing for the drilling of no wells.

El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests that the 1962 Drilling Program for the captioned unit be amended to provide for the drilling of the thirteen (13) wells listed below:

| <u>LOCATION</u>                | <u>FORMATION</u> |
|--------------------------------|------------------|
| NW/4 Section 27, T-27-N, R-6-W | Pictured Cliffs  |
| SE/4 Section 30, T-27-N, R-6-W | Pictured Cliffs  |
| SW/4 Section 16, T-27-N, R-6-W | Dakota           |
| SW/4 Section 23, T-27-N, R-6-W | Dakota           |
| NE/4 Section 27, T-27-N, R-6-W | Dakota           |
| SW/4 Section 32, T-27-N, R-6-W | Dakota           |
| NE/4 Section 13, T-27-N, R-7-W | Dakota           |
| NE/4 Section 36, T-27-N, R-7-W | Dakota           |
| SW/4 Section 26, T-27-N, R-7-W | Dakota           |
| SW/4 Section 17, T-27-N, R-6-W | Dakota           |

| <u>LOCATION</u>                | <u>FORMATION</u> |
|--------------------------------|------------------|
| SW/4 Section 20, T-27-N, R-6-W | Dakota           |
| SW/4 Section 21, T-27-N, R-6-W | Dakota           |
| NE/4 Section 25, T-27-N, R-7-W | Dakota           |

These wells will be drilled in accordance with the operating regulations as set forth by the United States Geological Survey, and due care will be taken to protect the unit from drainage and to comply with any requirements by the United States Geological Survey for additional drilling.

El Paso Natural Gas Company intends to drill the Pictured Cliffs wells to the base of the Pictured Cliffs Formation using rotary and cable tools. Surface casing will be set to approximately 100' from the surface, and then a production string of casing will be set through the Pictured Cliffs Formation. Mud will be used in drilling through the Pictured Cliffs Formation and cable tools will be used for completion work. The entire Pictured Cliffs Formation will be subjected to a hydraulic fracturing process. Due care will be taken to protect all horizons.

El Paso Natural Gas Company intends to drill the Dakota wells to the base of the Dakota Formation using rotary tools. Surface casing will be set to the depth of approximately 300' and an intermediate string will be run, if necessary, through the Pictured Cliffs Formation to a depth of approximately 3200', and then a production casing string will be run to the base of the Dakota Formation. The casing in the Dakota Formation will then be perforated and the Dakota Formation subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing when said casing is run and the hole below the intermediate string of casing will be drilled with either mud or gas. Due care will be taken to protect all horizons.

All of the working interest owners have been contacted and have approved this amended drilling program.

If this Amendment to the 1962 Drilling Program is acceptable, please signify your approval thereof pursuant to Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

A handwritten signature in black ink, appearing to read "Sam Smith", is written over a horizontal line. The signature is fluid and cursive.

Sam Smith, Manager  
Land Department

SS:SHM:cah  
Attachments

RINCON UNIT  
Working Interest Owners

Delhi-Taylor Oil Corporation  
Attention: Mr. R. L. Caldwell  
2630 Fidelity Union Tower  
Dallas 1, Texas

El Paso Natural Gas Products Company  
Attention: Mr. Roland Hamblin  
Luther Building  
El Paso, Texas

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P.O. Box 192  
Sistersville, West Virginia

Mr. J. Glenn Turner  
1900 Mercantile Dallas Building  
Dallas 1, Texas

Texas National Petroleum Company  
Attention: Mr. L. C. Oldham, Jr., Vice President  
410 Pierce Avenue  
Houston 3, Texas

APPROVED: \_\_\_\_\_  
United States Geological Survey  
Subject to like approval by the  
appropriate State officials.

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: 10-24-62

The foregoing approvals are for the 1962 Amended Drilling Program for the Rincon Unit, I Sec. No. 916, Rio Arriba County, New Mexico.

# El Paso Natural Gas Company

El Paso, Texas

July 3, 1962

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

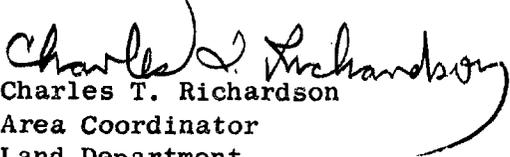
Re: Rincon Unit  
Revised Exhibit "B"  
Effective January 1, 1962

Gentlemen:

We enclose copies of the Revised Exhibit "B" covering the Rincon Unit Area which has been revised effective January 1, 1962.

The revised Exhibit "B" has been circulated among the various working interest owners of the Rincon Unit and this Exhibit "B" shows the correct interest of each party.

Very truly yours,

  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR:AJM:js  
Enclosure

Rincon, 5.0



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

299

Drawer 1857  
1962 JUN 11 11 21 AM '62  
Swell, New Mexico

June 6, 1962

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

Attention: Mr. Sam Smith

Gentlemen:

Your amended 1962 plan of development dated March 17, 1962, for the Rincon unit agreement, Rio Arriba County, New Mexico, proposing the drilling of two Pictured Cliffs formation wells and eleven Dakota formation wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the amended plan are enclosed.

Very truly yours,

[Orig. Sgd.] JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

**Attachments**

Copy to: Washington (w/cy of plan & amend)  
Farmington (w/cy of plan & amend)  
NMOCC-Santa Fe (ltr only)  
Com. of Pub. Lands-Santa Fe (ltr only)

State of New Mexico



Commissioner of Public Lands

E. S. JOHNNY WALKER  
COMMISSIONER



P. O. BOX 791  
SANTA FE, NEW MEXICO

June 6, 1962

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

Re: Rincon Unit,  
Rio Arriba County,  
New Mexico, Amendment  
to the 1962 Drilling  
Program

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands has of this date approved the Amendment to the 1962 Drilling Program for the Rincon Unit Area, Rio Arriba County, New Mexico, subject to like approval by the U. S. Geological Survey.

We are enclosing one approved copy of this Amended 1962 Drilling Program.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mrs.) Marian M. Rhea, Supervisor  
Unit Division

ESW/mmr/v  
encl:

cc: U.S. Geological Survey, Roswell, N.M.  
Oil Conservation Commission, Santa Fe, N.M.

OIL CONSERVATION COMMISSION  
P. O. BOX 871  
SANTA FE, NEW MEXICO

299

May 1, 1962

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

Attention: Mr. Sam Smith

Re: 1962 Drilling Program  
Rincon Unit, Rio Arriba  
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1962 Drilling Program for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

A. L. PORTER, JR.,  
Secretary-Director

ALP/JEK/1g

cc: U. S. Geological Survey  
Roswell, New Mexico  
State Land Office  
Santa Fe, New Mexico

C  
O  
P  
Y

April 12, 1962

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

Re: 1962 Drilling Program  
Rincon Unit, Rio Arriba  
County, New Mexico

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands has approved as of this date the 1962 Drilling Program for the Rincon Unit Area, Rio Arriba County, New Mexico, subject to like approval by the U. S. Geological Survey and the Oil Conservation Commission.

We are returning one approved copy of this Plan.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:  
(Mrs.) Marian M. Rhea, Supervisor  
Unit Division

ESW/mrk/v

encl:

cc: U.S. Geological Survey  
Roswell, New Mexico

Oil Conservation Commission  
Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas

March 15, 1962

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P.O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P.O. Box 871  
Santa Fe, New Mexico

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
1962 DRILLING PROGRAM

Gentlemen:

By letter dated January 6, 1961, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1961, consisting of seven (7) Pictured Cliffs wells and three (3) Dakota wells.

By letter dated August 23, 1961, El Paso Natural Gas Company, as Unit Operator, submitted an Amended 1961 Drilling Program deleting all of the Pictured Cliffs wells requested in our letter of January 6, 1961, except the well to be drilled in the NE/4 of Section 28, Township 27 North, Range 6 West and adding three (3) additional Pictured Cliffs wells. All of the scheduled wells provided for on the 1961 Drilling Program, as amended, were completed upon lands committed to the Rincon Unit with the exception of the following Dakota wells:

WELL SPACING UNIT

FORMATION

S/2 Section 16, T-27-N, R-6-W

Dakota

S/2 Section 18, T-27-N, R-6-W

Dakota

However, one (1) additional Dakota well was drilled and completed upon lands committed to the Rincon Unit in the Dakota Formation, being the Rincon Unit No. 159 Well, with a dedication of the N/2 of Section 18, Township 27 North, Range 6 West.

All four (4) Pictured Cliffs wells were drilled and completed on lands committed to the Pictured Cliffs Participating Area and a Notice of Completion of Additional Wells is now being prepared. The Rincon Unit No. 159 Well, N/2 Section 18, Township 27 North, Range 6 West, was completed as a non-commercial Dakota Well and the Rincon Unit No. 158 Well, S/2 of Section 22, Township 27 North, Range 6 West, was completed as a commercial Dakota well. The necessary exhibit, map, and expansion are now being prepared for the Fifth Expanded Participating Area, Dakota Formation, as a result of the Rincon Unit No. 158 Well.

As of this date, the total number of wells completed in the Rincon Unit is as follows:

|  |          |
|--|----------|
| Pictured Cliffs  | 97       |
| *Mesaverde   | 19       |
| Dual, Pictured Cliffs-Mesaverde  | 8        |
| Dual, Mesaverde-Dakota   | 6        |
| Dual, Mesaverde-Dakota (in which<br>the Dakota is commercial and the<br>Mesaverde is non-commercial) | 5        |
| **Dakota   | 3        |
| Dakota, non-commercial   | <u>1</u> |
|  | 139      |

\*This total includes a well (Rincon Unit No. 84 Well, E/2 Section 26, T-27-N, R-7-W), drilled to the Dakota and plugged back to the Mesaverde by Texas National Petroleum Company, et al, and further includes one well (Rincon Unit No. 23 Well, W/2 Section 35, T-27-N, R-7-W) determined to be non-commercial.

\*\*This total includes one well (Rincon Unit No. 136, N/2 Section 23, T-27-N, R-7-W) which was scheduled as a Mesaverde-Dakota dual, but was completed in the Dakota only.

All acreage committed to the Rincon Unit Agreement is now committed to the Pictured Cliffs Participating Area.

El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1962 providing for the drilling of no wells. However, El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances, and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners in the affected drilling blocks. El Paso Natural Gas Company, as Unit Operator, also respectfully requests that the 1961 Drilling Program for the captioned unit be amended to provide for the deletion from the 1961 Drilling Program the two above mentioned proposed Dakota wells.

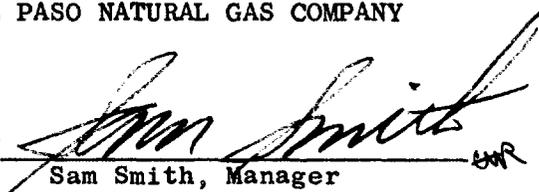
All of the working interest owners have been notified and we have received no requests for additional development from said owners and they concur in the deletions from the 1961 Drilling Program.

If this Drilling Program and the Amendment to the 1961 Drilling Program is acceptable, please signify your approval thereof pursuant to Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

A handwritten signature in cursive script, appearing to read "Sam Smith", is written over a horizontal line. To the right of the signature, there are initials "MSR".

Sam Smith, Manager  
Land Department

SS:GA:cah

**RINCON UNIT**

**Working Interest Owners**

**Delhi-Taylor Oil Corporation  
Attention: Mr. R. L. Caldwell  
2630 Fidelity Union Tower  
Dallas 1, Texas**

**El Paso Natural Gas Products Company  
Attention: Mr. Roland Hamblin  
Luther Building  
El Paso, Texas**

**Southern Petroleum Exploration, Inc.  
Attention: Mr. Paul W. Neuenschwander  
P.O. Box 192  
Sistersville, West Virginia**

**Mr. J. Glenn Turner  
1900 Mercantile Dallas Building  
Dallas 1, Texas**

**Texas National Petroleum Company  
Attention: Mr. L. C. Oldham, Jr.  
902 South Coast Building  
Houston, Texas**

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
United States Geological Survey  
Subject to like approval by the appropriate  
State officials.

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

APPROVED: A. L. Carter, Jr. DATE: 5-1-62  
Oil Conservation Commission  
Subject to like approval by the United  
States Geological Survey and the Commissioner  
of Public Lands.

The foregoing approvals are for the 1962 Drilling Program for the Rincon Unit,  
I Sec. No. 916, Rio Arriba County, New Mexico.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico

*Case # 299*

September 29, 1961

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

Attention: Mr. Sam Smith

Gentlemen:

Your amended 1961 plan of development dated August 23, 1961, for the Rincon unit area, Rio Arriba County, New Mexico, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

(Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Regional Oil and Gas Supervisor

Copy to: Washington (w/cy of plan)  
Farmington (w/cy of plan)  
MOCC, Santa Fe (ltr. only)  
Com. of Pub. Lands, Santa Fe (ltr. only)

# El Paso Natural Gas Company

El Paso, Texas

September 12, 1961

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
FOURTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective October 1, 1960

Gentlemen:

This is to advise you that the captioned expansion was approved by the regulatory bodies as follows:

1. Acting Director, United States Geological Survey,  
August 25, 1961.
2. Commissioner of Public Lands, May 29, 1961.
3. Oil Conservation Commission, May 22, 1961.

A copy of this letter is being sent to the working interest owners of the Rincon Unit.

Very truly yours,

*Charles Higgins*

Charles Higgins  
Area Coordinator  
Land Department

CH:GA;cah



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico

237  
September 11, 1961

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your application of May 22, 1961, for the fourth revision of the Dakota participating area for the Rincon unit agreement, Rio Arriba County, New Mexico, was approved August 25, 1961, by the Acting Director, Geological Survey, effective as of October 1, 1960.

One approved copy of the application is enclosed. It is assumed that you will furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Very truly yours,

[Orig. Sgd.] JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

Copy to: Washington (ltr. only)  
Farmington (w/cy of approved appln.)  
BLM-Santa Fe (w/cy of approved appln.)  
MIOCC, Santa Fe (ltr. only)  
Com. of Pub. Lands, Santa Fe (ltr. only)

# El Paso Natural Gas Company

299

El Paso, Texas

August 23, 1961

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
Of the State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
Amendment to the 1961 Drilling Program

Gentlemen:

By letter dated January 6, 1961, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1961, consisting of three (3) Dakota wells and seven (7) Pictured Cliffs wells listed as follows:

| <u>SPACING UNIT</u>            | <u>FORMATION</u> |
|--------------------------------|------------------|
| SW/4 Section 16, T-27-N, R-6-W | Pictured Cliffs  |
| NW/4 Section 27, T-27-N, R-6-W | Pictured Cliffs  |
| NE/4 Section 28, T-27-N, R-6-W | Pictured Cliffs  |
| SE/4 Section 30, T-27-N, R-6-W | Pictured Cliffs  |
| NW/4 Section 26, T-27-N, R-6-W | Pictured Cliffs  |
| SW/4 Section 26, T-27-N, R-6-W | Pictured Cliffs  |
| SE/4 Section 27, T-27-N, R-6-W | Pictured Cliffs  |
| S/2 Section 16, T-27-N, R-6-W  | Dakota           |
| S/2 Section 18, T-27-N, R-6-W  | Dakota           |
| S/2 Section 22, T-27-N, R-6-W  | Dakota           |

El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests that the 1961 Drilling Program for the captioned unit be amended as follows:

Add to the 1961 Drilling Program the three wells listed below:

| <u>SPACING UNIT</u>            | <u>FORMATION</u> |
|--------------------------------|------------------|
| SW/4 Section 23, T-27-N, R-6-W | Pictured Cliffs  |
| SW/4 Section 27, T-27-N, R-6-W | Pictured Cliffs  |
| SW/4 Section 29, T-27-N, R-6-W | Pictured Cliffs  |

Delete from the original program all of the Pictured Cliffs wells except the well to be drilled in the NE/4 of Section 28, Township 27 North, Range 6 West.

The additional wells will be drilled in accordance with the operating regulations as set forth by the United States Geological Survey, and due care will be taken to protect the unit from drainage and to comply with any requirements by the United States Geological Survey for additional drilling.

El Paso Natural Gas Company intends to drill the additional Pictured Cliffs wells to the base of the Pictured Cliffs Formation using rotary and cable tools. Surface casing will be set to approximately 100' from the surface, and then a production string of casing will be set through the Pictured Cliffs Formation. Mud will be used in drilling through the Pictured Cliffs Formation and cable tools will be used for completion work. The entire Pictured Cliffs Formation will be subjected to a hydraulic fracturing process. Due care will be taken to protect all horizons.

The working interest owners are in the process of evaluating the Dakota Formation in the Rincon Unit and do, at this time, anticipate some changes in the 1961 Drilling Program as to that formation. When any change has been definitely determined to be advisable, a formal request for change and approval will be submitted.

All of the working interest owners have been contacted and have approved this amended drilling program.

If this Amendment to the 1961 Drilling Program is acceptable, please signify your approval thereof pursuant to Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Very truly yours,

EL PASO NATURAL GAS COMPANY

BY   
Sam Smith, Manager  
Land Department

SS:GA:js

APPROVED: \_\_\_\_\_  
United States Geological Survey  
Subject to like approval by the appropriate  
State Officials.

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: \_\_\_\_\_

The foregoing approvals are for the 1961 Amended Drilling Program for the Rincon Unit, I Sec. No. 916, Rio Arriba County, New Mexico.

# El Paso Natural Gas Company

El Paso, Texas

August 23, 1961

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
Of the State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
Amendment to the 1961 Drilling Program

Gentlemen:

By letter dated January 6, 1961, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1961, consisting of three (3) Dakota wells and seven (7) Pictured Cliffs wells listed as follows:

| <u>SPACING UNIT</u>            | <u>FORMATION</u> |
|--------------------------------|------------------|
| SW/4 Section 16, T-27-N, R-6-W | Pictured Cliffs  |
| NW/4 Section 27, T-27-N, R-6-W | Pictured Cliffs  |
| NE/4 Section 28, T-27-N, R-6-W | Pictured Cliffs  |
| SE/4 Section 30, T-27-N, R-6-W | Pictured Cliffs  |
| NW/4 Section 26, T-27-N, R-6-W | Pictured Cliffs  |
| SW/4 Section 26, T-27-N, R-6-W | Pictured Cliffs  |
| SE/4 Section 27, T-27-N, R-6-W | Pictured Cliffs  |
| S/2 Section 16, T-27-N, R-6-W  | Dakota           |
| S/2 Section 18, T-27-N, R-6-W  | Dakota           |
| S/2 Section 22, T-27-N, R-6-W  | Dakota           |

El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests that the 1961 Drilling Program for the captioned unit be amended as follows:

Add to the 1961 Drilling Program the three wells listed below:

| <u>SPACING UNIT</u>            | <u>FORMATION</u> |
|--------------------------------|------------------|
| SW/4 Section 23, T-27-N, R-6-W | Pictured Cliffs  |
| SW/4 Section 27, T-27-N, R-6-W | Pictured Cliffs  |
| SW/4 Section 29, T-27-N, R-6-W | Pictured Cliffs  |

Delete from the original program all of the Pictured Cliffs wells except the well to be drilled in the NE/4 of Section 28, Township 27 North, Range 6 West.

The additional wells will be drilled in accordance with the operating regulations as set forth by the United States Geological Survey, and due care will be taken to protect the unit from drainage and to comply with any requirements by the United States Geological Survey for additional drilling.

El Paso Natural Gas Company intends to drill the additional Pictured Cliffs wells to the base of the Pictured Cliffs Formation using rotary and cable tools. Surface casing will be set to approximately 100' from the surface, and then a production string of casing will be set through the Pictured Cliffs Formation. Mud will be used in drilling through the Pictured Cliffs Formation and cable tools will be used for completion work. The entire Pictured Cliffs Formation will be subjected to a hydraulic fracturing process. Due care will be taken to protect all horizons.

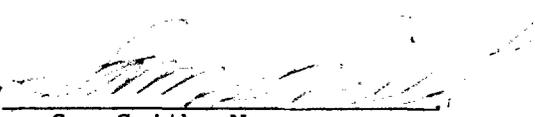
The working interest owners are in the process of evaluating the Dakota Formation in the Rincon Unit and do, at this time, anticipate some changes in the 1961 Drilling Program as to that formation. When any change has been definitely determined to be advisable, a formal request for change and approval will be submitted.

All of the working interest owners have been contacted and have approved this amended drilling program.

If this Amendment to the 1961 Drilling Program is acceptable, please signify your approval thereof pursuant to Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 

Sam Smith, Manager  
Land Department

SS:GA:js

APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_  
United States Geological Survey  
Subject to like approval by the appropriate  
State Officials.

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

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

The foregoing approvals are for the 1961 Amended Drilling Program for the Rincon  
Unit, I Sec. No. 916, Rio Arriba County, New Mexico.

(1) # 299

Brewer 1857  
Roswell, New Mexico

August 22, 1961

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your notice of July 28, 1961, advises that El Paso Natural Gas Company as unit operator of the Rincon unit area, Rio Arriba County, New Mexico, has determined unit well No. 159 as incapable of producing unitized substances in paying quantities from the Dakota formation.

Unit well No. 159 in the NE $\frac{1}{4}$  sec. 18, T. 27 N., R. 6 W., N.M.P.M., was completed June 6, 1961, for an initial absolute open flow potential of 3015 MCF of gas per day from the Dakota formation 7440-7664 feet.

This office concurs with your determination that unit well No. 159 is incapable of producing unitized substances in paying quantities under existing conditions based on the volumetric reserve evaluation accompanying your determination. Such determination is subject to review when sufficient production history becomes available to correlate with your calculated reserve and stabilized deliverability figures.

Very truly yours,

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

Copy to: Washington (w/cy of notice)  
Farmington (w/cy of notice)  
NMOCC, Santa Fe (ltr only)  
Com. of Pub. Lands, Santa Fe (ltr only)  
Accounts

# El Paso Natural Gas Company

El Paso, Texas

July 28, 1961

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF NON-  
COMMERCIAL WELL IN THE DAKOTA  
FORMATION

Dear Sir:

Pursuant to the provisions of Section 11 of the Rincon Unit Agreement, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, has determined that the following described well is not capable of producing unitized substances in paying quantities from the Dakota Formation:

The Rincon Unit #159 Well, located 1700' from the North line and 1720' from the East line of Section 18, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on April 20, 1961, and completed on May 26, 1961, at a total depth of 7738' and a clean-out depth of 7680'. The Dakota Formation in intervals between 7440' - 7450', 7460' - 7480', 7572' - 7592', 7604' - 7611', 7616' - 7624', 7656' - 7664' was treated with a sand-water fracturing process on May 22 and May 24, 1961. The well was shut-in on May 26, 1961, and after being shut-in for eleven (11) days, the Dakota Formation was tested on June 6, 1961, and following a three (3) hour blow-down period gauged 2718 MCFGPD through a 3/4" choke, and 3015 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2559# and an SIPT of 2632#.

If this determination meets with your approval, please indicate such approval in the space provided and return an approved copy hereof for our files.

Copies of this letter are being sent to the Commissioner of Public Lands and the Oil Conservation Commission of the State of New Mexico and to the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By T. W. Bittick  
T. W. Bittick  
Assistant Manager  
Land Department

TWB:GA:js

APPROVED: \_\_\_\_\_  
United States Geological Survey

DATE: \_\_\_\_\_

**RINCON UNIT**  
**Working Interest Owners**

**Delhi-Taylor Oil Corporation**  
**Attention: Mr. R. L. Caldwell**  
**2630 Fidelity Union Tower**  
**Akard and Pacific Streets**  
**Dallas 1, Texas**

**El Paso Natural Gas Products Company**  
**Luther Building**  
**El Paso, Texas**

**Mr. Burt Fields**  
**1211 Fidelity Union Tower Building**  
**Dallas, Texas**

**Rock Island Oil & Refining Company**  
**321 West Douglas**  
**Wichita 2, Kansas**

**Shoreline Petroleum Corporation**  
**Petroleum Center Building**  
**900 North East Military Drive**  
**San Antonio 9, Texas**

**Southern Petroleum Exploration, Inc.**  
**Attention: Mr. Paul W. Neuenschwander**  
**P. O. Box 192**  
**Sistersville, West Virginia**

**Texas National Petroleum Company**  
**Attention: Mr. L. C. Oldham, Jr., Vice President**  
**902 South Coast Building**  
**Houston, Texas**

**Mr. J. Glenn Turner**  
**1900 Mercantile Dallas Building**  
**Dallas 1, Texas**

**Mr. William G. Webb**  
**1900 Mercantile Dallas Building**  
**Dallas 1, Texas**

100-299

May 29, 1961

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

Attention: Mr. T. W. Bittick

Re: Fourth Expansion of the Dakota  
Participating Area, Rincon Unit  
Rio Arriba County, New Mexico.

Gentlemen:

The Commissioner of Public Lands has approved as of May 29, 1961 the Fourth Expansion of the Dakota Participating Area for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

Five approved copies of this application are enclosed.

Very truly yours,  
E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

BY:  
Ted Bilberry, Supervisor  
Oil and Gas Department

ESW/mmr/s

cc:

OCC- Santa Fe  
USGS- Roswell

# El Paso Natural Gas Company

El Paso, Texas

*CH 297*

May 22, 1961

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Rincon Unit Area  
Rio Arriba County, New Mexico  
FOURTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective October 1, 1960

Gentlemen:

Attached are eight (8) copies of the subject expansion of the Rincon Unit, together with map exhibits and geological information.

It is requested, upon your approval, that you kindly sign all copies in the space provided, retaining one (1) copy of the expansion and attached exhibits and forwarding the remaining seven (7) copies to the office of the Commissioner of Public Lands for his consideration.

Very truly yours,



Charles Higgins  
Area Coordinator  
Land Department

CH:WVC:cah  
Attachments

OIL CONSERVATION COMMISSION

P. O. BOX 871  
SANTA FE, NEW MEXICO

*Case #299*

May 22, 1961

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

ATTENTION: Mr. T. W. Bittick

Re: Fourth Expansion of the Dakota  
Participating Area, Rincon Unit,  
Rio Arriba County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Fourth Expansion of the Dakota Participating Area for the Rincon Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Seven approved copies of the application are handed to Mr. Wm. Cheek.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/ig

cc: United States Geological Survey  
Commissioner of Public Lands

C  
O  
P  
Y

# El Paso Natural Gas Company

El Paso, Texas

May 22, 1961

Director  
United States Geological Survey  
Department of the Interior  
Washington 25, D.C.

Commissioner of Public Lands  
Of the State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Rincon Unit Area, I Sec. No. 916  
Rio Arriba County, New Mexico  
FOURTH EXPANDED PARTICIPATING  
AREA, Dakota Formation  
Effective October 1, 1960

Gentlemen:

Pursuant to Section 11 of the Rincon Unit Agreement, I Sec. No. 916, approved February 27, 1952, El Paso Natural Gas Company, as Unit Operator, submits for your approval the Fourth Expanded Participating Area of the Dakota Formation, Rincon Unit, Rio Arriba County, New Mexico, which includes in addition to the lands previously admitted to the Dakota Participating Area, the following selection of lands estimated to be productive in paying quantities from the Dakota Formation:

Township 27 North, Range 7 West

Section 13: All  
Section 14: All  
Section 15: E/2  
Section 22: NE/4  
Section 23: NW/4

The lands described above are proven to be productive by the following well:

The Rincon Unit #151 Well, located 1170' from the North line and 1640' from the East line of Section 14, Township 27 North, Range 7 West, Rio Arriba County, New Mexico was spudded on July 2, 1960, and completed on August 18, 1960 at a total depth of 7637'. It was plugged back to 7563'. The Dakota Formation from 7360' - 7368', 7378' - 7384', 7388' - 7396', 7406' - 7418', 7504' - 7514', 7520' - 7528' was treated with

a sand-water fracturing process. On October 11, 1960, following the sand-water fracturing treatment the well was determined to be capable of producing unitized substances in commercial quantities, being gauged at AOF 5993 MCF/D from the Dakota Formation. The committed spacing unit upon which this well is located is described as Lots 1,2,3,4,5,6,11,12 (E/2) of Section 14, Township 27 North, Range 7 West, N.M.P.M. containing 299.89 acres, more or less.

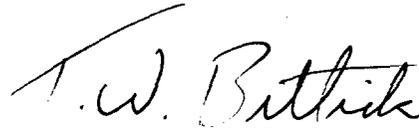
Attached is Schedule V showing the Fourth Expanded Participating Area for the Dakota Formation of the Rincon Unit Area. This describes the Expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownership in said tract. Inasmuch as Section 11 of the Unit Agreement provides that, "The effective date of any revision shall be the first of the month in which is obtained the knowledge or information on which such revision is predicated unless a more appropriate effective date is specified in the schedule," the Fourth Expanded Participating Area will become effective October 1, 1960. If this Fourth Expanded Participating Area meets with your approval, please indicate such approval in the space provided on the attached page and return an approved copy for our files.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



T. W. Bittick  
Assistant Manager  
Land Department

TWB:WVC:js  
Attachments

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
United States Geological Survey  
Subject to like approval by the appropriate  
State Officials.

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

APPROVED: *A. H. Porter, Jr.* DATE May 22, 1961  
Oil Conservation Commission  
Subject to like approval by the United States  
Geological Survey and the Commissioner of  
Public Lands.

The foregoing approvals are for the approval of the Fourth Expanded Participating Area of the Dakota Formation, Rincon Unit, Rio Arriba County, New Mexico.

**RINCON UNIT**  
**Working Interest Owners**

**Delhi-Taylor Oil Corporation**  
**Attention: Mr. R. L. Caldwell**  
**2630 Fidelity Union Tower**  
**Akard and Pacific Streets**  
**Dallas 1, Texas**

**El Paso Natural Gas Products Company**  
**Luther Building**  
**El Paso, Texas**

**Mr. Bert Fields**  
**1211 Fidelity Union Tower Building**  
**Dallas, Texas**

**Rock Island Oil & Refining Company**  
**321 West Douglas**  
**Wichita 2, Kansas**

**Shoreline Petroleum Corporation**  
**Petroleum Center Building**  
**900 North East Military Drive**  
**San Antonio 9, Texas**

**Southern Petroleum Exploration, Inc.**  
**Attention: Mr. Paul W. Neuenschwander**  
**P. O. Box 192**  
**Sistersville, West Virginia**

**Texas National Petroleum Company**  
**Attention: Mr. L. C. Oldham, Jr., Vice President**  
**902 South Coast Building**  
**Houston, Texas**

**Mr. J. Glenn Turner**  
**1900 Mercantile Dallas Building**  
**Dallas 1, Texas**

**Mr. William G. Webb**  
**1900 Mercantile Dallas Building**  
**Dallas 1, Texas**

# El Paso Natural Gas Company

El Paso, Texas

March 30, 1961

Case # 299

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Box 1837  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Rincon Unit  
1961 Drilling Program

Gentlemen:

The 1961 Drilling Program for the Rincon Unit was approved by the regulatory bodies on the following dates:

1. United States Geological Survey - March 1, 1961
2. Commissioner of Public Lands - March 10, 1961
3. Oil Conservation Commission - March 22, 1961

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

Very truly yours,



Charles Higgins  
Area Coordinator  
Land Department

CH:WVC:cah

O CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Case # 299

March 22, 1961

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

O  
Attention: Mr. Sam Smith

Re: 1961 Plan of Development  
Rincon Unit Rio Arriba  
County, New Mexico.

P  
Gentlemen:

Y  
This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1961 Plan of Development for the Rincon Unit Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,  
Secretary-Director

ALP/JEK/ig

cc: Commissioner of Public Lands  
Santa Fe, New Mexico

U. S. Geological Survey  
Roswell, New Mexico



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

P.O. Box 6721  
Roswell, New Mexico

15021

March 1, 1961

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

Attention: Mr. Sam Smith

Gentlemen:

Your plan of development for 1961, dated January 6, 1961, for the Rincon unit area, Rio Arriba County, New Mexico, which proposes the drilling of seven Pictured Cliffs formation and three Dakota formation wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

[Orig. Sgd.] JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

Copy to: Washington (w/cy of plan)  
Farmington (w/cy of plan)  
RMOCC, Santa Fe (ltr. only)

March 10, 1961

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

Re: Rincon Unit  
Rio Arriba County, New Mexico  
1961 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands has approved the 1961 Plan of Development for the Rincon Unit Area as of March 10, 1961.

This Plan of Development proposes the drilling of seven Pictured Cliffs Formation and three Dakota Formation wells, and is effective January 1, 1961.

One approved copy is enclosed.

Very truly yours,

E. S. JOHNNY WALKER  
COMMISSIONER OF PUBLIC LANDS

ESW/mmr/s  
Encl. (1).  
cc:

US Geological Survey  
Roswell, New Mexico

Oil Conservation Commission  
Santa Fe, New Mexico

# El Paso Natural Gas Company

El Paso, Texas

January 6, 1961

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: Rincon Unit, I Sec. No. 916  
Rio Arriba County, New Mexico  
1961 Drilling Program

Gentlemen:

By letter dated January 18, 1960, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned unit for the calendar year 1960, consisting of three (3) dual Mesaverde-Dakota wells. All of the scheduled three wells were completed upon lands committed to the Rincon Unit.

One other Dakota well was completed upon lands committed to the Unit during the year, and this well is the Rincon Unit #151, located in the NE/4 of Section 14, T-27-N, R-7-W. The Rincon #151 well appears to be of commercial quality and an expansion of the Dakota Participating Area is being prepared.

As of this date, the total number of wells completed in the Rincon Unit is as follows:

|  |    |
|--|----|
| Pictured Cliffs  | 93 |
| *Mesaverde   | 19 |
| Dual, Pictured Cliffs-Mesaverde  | 8  |
| Dual, Mesaverde-Dakota   | 6  |
| Dual, Mesaverde-Dakota (in which<br>the Dakota is commercial and the<br>Mesaverde is non-commercial) | 5  |
| **Dakota   | 2  |

\*This total includes a well (Rincon Unit #84 Well, E/2 Sec. 26, T-27-N, R-7-W), drilled to the Dakota and plugged back to the Mesaverde by Texas National Petroleum Company et al, and further includes one well (Rincon Unit #23 Well, W/2 Sec. 35, T-27-N, R-7-W) determined to be non-commercial.

\*\*This total includes one well (Rincon Unit #136, N/2 Sec. 23, T-27-N, R-7-W) which was scheduled as a Mesaverde-Dakota dual but was completed in the Dakota only.

El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a drilling program for the calendar year 1961, consisting of the following described wells:

| <u>SPACING UNIT</u>            | <u>FORMATION</u> |
|--------------------------------|------------------|
| SW/4 Section 16, T-27-N, R-6-W | Pictured Cliffs  |
| NW/4 Section 27, T-27-N, R-6-W | Pictured Cliffs  |
| NE/4 Section 28, T-27-N, R-6-W | Pictured Cliffs  |
| SE/4 Section 30, T-27-N, R-6-W | Pictured Cliffs  |
| NW/4 Section 26, T-27-N, R-6-W | Pictured Cliffs  |
| SW/4 Section 26, T-27-N, R-6-W | Pictured Cliffs  |
| SE/4 Section 27, T-27-N, R-6-W | Pictured Cliffs  |
| S/2 Section 16, T-27-N, R-6-W  | Dakota           |
| S/2 Section 18, T-27-N, R-6-W  | Dakota           |
| S/2 Section 22, T-27-N, R-6-W  | Dakota           |

These wells will be drilled in accordance with the operating regulations as set forth by the United States Geological Survey, and due care will be taken to protect the unit from drainage and to comply with any requirements by the United States Geological Survey for additional drilling.

El Paso Natural Gas Company intends to drill the Pictured Cliffs wells to the base of the Pictured Cliffs Formation using rotary and cable tools. Surface casing will be set to approximately 100' from the surface, and then a production string of casing will be set through the Pictured Cliffs Formation. Mud will be used in drilling through the Pictured Cliffs Formation and cable tools will be used for completion work. The entire Pictured Cliffs Formation will be subjected to a hydraulic fracturing process. Due care will be taken to protect all horizons.

El Paso Natural Gas Company intends to drill the Dakota wells to the base of the Dakota Formation using rotary tools. Surface casing will be set to the depth of approximately 300' and an intermediate string will be run if necessary, through the Pictured Cliffs Formation to a depth of approximately 3200', and then a production casing string will be run to the base of the Dakota Formation. The casing in the Dakota Formation will then be perforated and the Dakota Formation subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing when said casing is run and the hole below the intermediate string of casing will be drilled with either mud or gas. Due care will be taken to protect all horizons.

All of the working interest owners have been contacted and this Drilling Program reflects, insofar as possible, their requests for additional drilling.

If this Drilling Program is acceptable, please signify your approval thereof pursuant to Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to El Paso Natural Gas Company.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 

Sam Smith, Manager  
Land Department

SS:EGI:cah

APPROVED: \_\_\_\_\_  
United States Geological Survey  
Subject to like approval by the appropriate  
State Officials.

DATE: \_\_\_\_\_

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

DATE: \_\_\_\_\_

APPROVED: A. F. Porter, L.  
Oil Conservation Commission  
Subject to like approval by the United States  
Geological Survey and the Commissioner of  
Public Lands.

DATE: 3. 22. 61

The foregoing approvals are for the 1961 Drilling Program for the Rincon Unit, I Sec.  
No. 916, Rio Arriba County, New Mexico.

RINCON UNIT  
WORKING INTEREST OWNERS

Mr. R. L. Caldwell  
Delhi-Taylor Oil Corporation  
2630 Fidelity Union Tower  
Akard and Pacific Streets  
Dallas 1, Texas

Rock Island Oil & Refining Co., Inc.  
321 West Douglas  
Wichita 2, Kansas

Mr. J. Glenn Turner  
1900 Mercantile Dallas Building  
Dallas, Texas

Burt Fields  
1211 Fidelity Union Tower Building  
Dallas, Texas

Mr. Paul W. Neuenschwander  
Southern Petroleum Exploration, Inc.  
P.O. Box 192  
Sistersville, West Virginia

Shoreline Petroleum Corporation  
Petroleum Center Building  
900 North East Military Drive  
San Antonio 9, Texas

Mr. William G. Webb  
1900 Mercantile Dallas Building  
Dallas 1, Texas