



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

FEB -6 1978
COMPTROLLER
Santa Fe

FEB 03 1978

El Paso Natural Gas Company
Attention: Mr. D. H. Canfield
P. O. Box 1492
El Paso, Texas 79979

No. 553

Gentlemen:

Three approved copies of your 1978 plan of development for the San Juan 28-5 unit area, Rio Arriba County, New Mexico, proposing the drilling of two Dakota wells outside the Dakota participating area, 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. SGD.) JAMES W. SUTHERLAND

AREA OIL AND GAS SUPERVISOR, SRMA

Enclosures

cc:

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 26, 1978

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

Attention: D. N. Canfield

Re: Case No. 553
San Juan 28-5 Unit
1978 Drilling Program

Gentlemen:

We hereby approve the 1978 Drilling Program for the San Juan 28-5 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 Drilling Program is returned herewith.

Very truly yours,

JOE D. RAMEY
Secretary-Director

JDR/LT/fd
enc.

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

January 20, 1978

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

71. 553

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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
1978 DRILLING PROGRAM

Gentlemen:

By letter dated February 25, 1977, El Paso Natural Gas Company, as Unit Operator of the San Juan 28-5 Unit, filed a Drilling Program covering the subject Unit for the calendar year 1977 providing for the drilling of Dakota wells #94 and #97. Both wells have been drilled and completed as wells capable of producing unitized substances in paying quantities. Accordingly, El Paso Natural Gas Company, as Unit Operator, will propose the Seventeenth and Eighteenth Expansions of the Dakota Participating Area.

As of this date, the total number of wells in the San Juan 28-5 Unit is as follows:

Pictured Cliffs	1
Mesaverde	46
Dual, Mesaverde/Dakota	6
Mesaverde, Non-Commercial	1
Dakota	40
Dakota, Non-Commercial	1
	<u>95</u>

Pursuant to Section 10 of the San Juan 28-5 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling

Program providing for the drilling of the following Dakota wells during the calendar year 1978:

<u>Well No.</u>	<u>Drilling Block</u>
98	Non-Standard: Lots 1, 2, W/2 NE/4 Sec. 24; Lots 3, 4, SW/4 SE/4 Sec. 13; T-28-N, R-5-W
101	Standard: W/2 Sec. 13, T-28-N, R-5-W

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, 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.

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

Very truly yours,



D. N. Canfield
Director of Land
Energy Resource Development

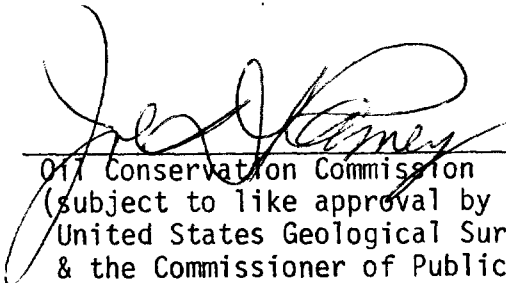
DNC:RHN:sas
Attachments
San Juan 28-5 Unit, 3.0

APPROVED:

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

DATED: _____

APPROVED:



Oil Conservation Commission
(subject to like approval by the
United States Geological Survey
& the Commissioner of Public Lands)

DATED:

1/26/78

The foregoing approvals are for the 1978 Drilling Program for
the San Juan 28-7 Unit #14-08-001-949, Rio Arriba County,
New Mexico.

SAN JUAN 28-5 UNIT
WORKING INTEREST OWNERS

Mrs. Dorothy Abercrombie

Mr. J. R. Abercrombie

William E. Alsup, Jr., Ancillary Executor
Estate of William E. Alsup, Deceased

American Petrofina Company of Texas

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

Mr. and Mrs. Thomas A. Dugan

Flag-Redfern Oil Company

General American Oil Co. of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mabelle Miller

Northwest Pipeline Corporation
Denver, Colorado

Northwest Pipeline Corporation
Farmington, New Mexico

Phillips Petroleum Company

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace &
Mr. James A. Brown, Trustees under the
Last Will and Testament of A. W. Brown

April 28, 1977

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

Gentlemen:

The 1977 Drilling Programs for the below listed units were approved by the regulatory bodies on the dates indicated:

<u>Unit</u>	<u>USGS</u>	<u>CPL</u>	<u>OCC</u>
San Juan 27-5	4-4-77	3-8-77	3-30-77
San Juan 28-5	3-30-77	N/A	3-30-77
San Juan 28-7	3-30-77	3-8-77	3-30-77
San Juan 29-7	3-30-77	3-8-77	3-30-77
San Juan 30-6	3-30-77	3-8-77	3-30-77
Canyon Largo	3-30-77	3-8-77	3-30-77
Rincon	3-30-77	3-8-77	3-30-77

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

Very truly yours,

RH Nordhausen

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

RHN:sas

SJ 27-5, 3.0; SJ 28-5, 3.0; SJ 28-7, 3.0

SJ 29-7, 3.0; Canyon Largo 3.0; Rincon 3.0



United States Department of the Interior

Conservation Division
GEOLOGICAL SURVEY
Western District Building
505 Marquette, NW, Room 815
Albuquerque, New Mexico 87102

MAR 30 1977

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

Gentlemen:

On this date, your 1977 plan of development for the San Juan 28-5 unit area, Rio Arriba County, New Mexico, wherein you propose to drill two Dakota wells on lands outside the existing participating area, was approved. Such approval is subject to like approval by the appropriate State officials. Three approved copies are enclosed.

Sincerely yours,

(ORIG. SGP.) JAMES W. SUTHERLAND

Area Oil and Gas Supervisor

Enclosures

cc:
NMOCC, Santa Fe (ltr. only) ← This Copy for
Com. Pub. Lands, Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

302

March 30, 1977

C
O
P
Y

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

Attention: Mr. D. N. Canfield

Re: 1977 Drilling Program
San Juan 28-5 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 1977 providing for the drilling of two Dakota wells for the San Juan 28-5 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,

JOE D. RAMEY
Secretary-Director

JDR/JEK/og

cc: United States Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
Santa Fe, New Mexico

February 25, 1977

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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
1977 DRILLING PROGRAM

Gentlemen:

By letter dated December 19, 1975, El Paso Natural Gas Company, as Unit Operator of the San Juan 28-5 Unit, filed a Drilling Program covering the subject Unit for the calendar year 1976 providing for the drilling of no wells, and none were drilled.

As of this date, the total number of wells in the San Juan 28-5 Unit is as follows:

Pictured Cliffs	1
Mesaverde	46
Dual, Mesaverde/Dakota	6
Mesaverde, Non-commercial	1
Dakota	38
Dakota, Non-commercial	1
	<hr/> 93

Pursuant to Section 10 of the San Juan 28-5 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling

Program providing for the drilling of the following wells during the calendar year 1977.

<u>Well</u>	<u>Formation</u>	<u>Spacing Unit</u>
94	Dakota	Non Standard: Lots 3, 4, SW/4 NE/4, W/2 SE/4 Section 25; Lot 1, NW/4 NE/4 Section 36, T-28-N, R-5-W (316.76 acres)
97	Dakota	E/2 Section 14, T-28-N, R-5-W

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, 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.

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 letter 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/mb

Attachments

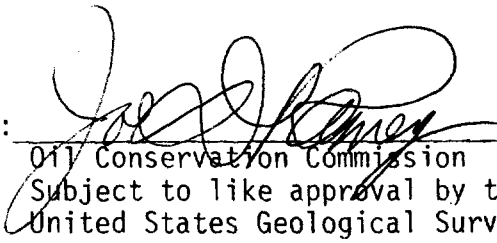
San Juan 28-5 Unit, 3.0

APPROVED: _____

Regional Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by the
Oil Conservation Commission

DATE: _____

APPROVED: _____


Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

DATE: March 30, 1977

The foregoing approvals are for the 1977 Drilling Program for the
San Juan 28-5 Unit, #14-08-001-949, Rio Arriba County, New Mexico.

SAN JUAN 28-5 UNIT
Working Interest Owners

Mr. J. R. Abercrombie

Dr. W. E. Alsup

American Petrofina Company of Texas

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

Mr. and Mrs. Thomas A. Dugan

Flag-Redfern Oil Company

General American Oil Company of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mabelle Miller

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Texas Commerce Bank N.A., Ancillary
Guardian of the Estate of John L.
Abercrombie

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace & Mr.
James A. Brown, Trustees under
the Last Will and Testament of
A. W. Brown

Northwest Pipeline Corporation

Phillips Petroleum Company



United States Department of the Interior

GEOLOGICAL SURVEY

Western Bank Bldg., Room 815
505 Marquette, NW
Albuquerque, New Mexico 87102

December 29, 1976

El Paso Natural Gas Company
Attention: Mr. Don Wadsworth
P. O. Box 1492
El Paso, Texas 79978

Gentlemen:

Your 1976 Plan of Development and Operation for the San Juan 28-5 unit area, Rio Arriba County, New Mexico, was received in this office on December 29, 1975. Such plan provided no additional development during the year. Our letter of May 28, 1976, requested justification for no additional development and several joint conversations and conferences followed during the balance of the year with no definitive conclusion.

Authority for continuation of operations within the unitized area is derived from an approved Plan of Development and Operations, pursuant to Section 10 of the unit agreement. Accordingly, this office hereby accepts your 1976 Plan for record purposes. As stated previously, the plan is considered less than adequate inasmuch as there appears to be one or more participating areas which are not fully developed within the unitized area and no tangible justification is provided for the absence of additional development drilling in those areas.

You are requested to submit a 1977 Plan of Development and Operation for the San Juan 28-5 unit within 60 days of the receipt of this letter. Such plan, in order to receive favorable consideration by this office, must contain a firm commitment for additional development drilling absent tangible documentation of full development of the unitized area.

Sincerely yours,

JAMES W. SUTHERLAND
Area Oil and Gas Supervisor

cc: Durango (w/cy plan) *This Copy*
NMOCC, Santa Fe
Com. Pub. Lands, Santa Fe

JAGILLHAM:lm:122976

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

550

January 8, 1976

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

Attention: Mr. D. N. Canfield

Re: 1976 Drilling Program,
San Juan 28-5 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 1976 providing for the drilling of no wells for the San Juan 28-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

Two approved copies of the program are returned herewith.

Very truly yours,

AOE D. RAMEY
Secretary-Director

JDR/JEK/og

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

December 19, 1975

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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
1976 DRILLING PROGRAM

Gentlemen:

By letter dated March 10, 1975, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1975 providing for the drilling of no wells, and none were drilled.

The total number of wells in the San Juan 28-5 Unit is as follows:

Pictured Cliffs	1
Mesaverde	46
Dual, Mesaverde/Dakota	6
Mesaverde, Non-Commercial	1
Dakota	38
Dakota, Non-Commercial	<u>1</u>
	93

Pursuant to Section 10 of the San Juan 28-5 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of no wells during the calendar year 1976.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells required to prevent drainage of unitized substances, and any other wells subsequently 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 the desires of a majority of the working interest owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners also believe that all current obligations have been satisfied.

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:sas
San Juan 28-5 Unit, 3.0

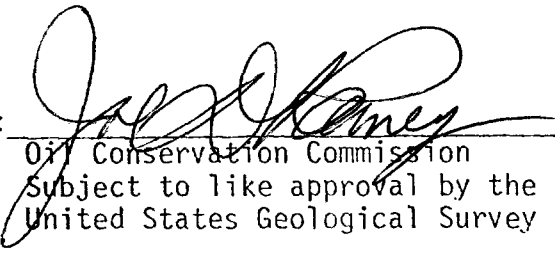
cc: Commissioner of Public Lands
(Information only)

APPROVED: _____

Regional Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by the
Oil Conservation Commission

DATE: _____

APPROVED: _____


Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

DATE: _____

January 8, 1976

The foregoing approvals are for the 1976 Drilling Program for the
San Juan 28-5 Unit, #14-08-001-949, Rio Arriba County, New Mexico.

SAN JUAN 28-5 UNIT
Working Interest Owners

Mr. J. R. Abercrombie

Dr. W. E. Alsup

American Petrofina Company of Texas

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

Mr. and Mrs. Thomas A. Dugan

Flag-Redfern Oil Company

General American Oil Company of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mabelle Miller

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Texas Commerce Bank N.A., Ancillary
Guardian of the Estate of John L.
Abercrombie

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace & Mr.
James A. Brown, Trustees under
the Last Will and Testament of
A. W. Brown

Northwest Pipeline Corporation

Phillips Petroleum Company

El Paso Natural Gas Company

El Paso, Texas 79901

June 5, 1975

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: San Juan 28-5 Unit
Sixteenth Revision of the
Dakota Participating Area
Effective December 1, 1974
Rio Arriba County, New Mexico

Gentlemen:

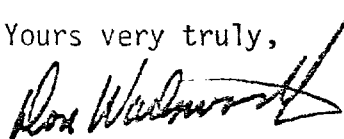
The referenced expansion of the San Juan 28-5 Unit Dakota Participating Area was approved by the Regulatory Agencies on the following dates:

United States Geological Survey
Oil Conservation Commission

June 2, 1975
May 13, 1975

Copies of this notice are being sent to the working interest owners of the San Juan 28-5 Unit.

Yours very truly,



Don Wadsworth
Landman
Land Department
Energy Resource Development

DW:nm
SJ 28-5, 4.3



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1657
Roswell, New Mexico 88201

June 2, 1975

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

Gentlemen:

Your application of May 6, 1975, requesting approval of the sixteenth revision of the Dakota participating area for the San Juan 28-5 unit agreement, Rio Arriba County, New Mexico, No. 14-06-001-949, was approved June 2, 1975, by the Acting Area Oil and Gas Supervisor, U.S. Geological Survey effective as of December 1, 1974.

The sixteenth revision adds 320.00 acres described as the E $\frac{1}{2}$ sec. 15, T. 28 N., R. 5 W., N.M.P.M., which enlarges the Dakota participating area to 14,264.65 acres and is based on the completion and production of unit well No. 93 located in the NE $\frac{1}{4}$ of said sec. 15. Such well was completed December 11, 1974, for an initial calculated open flow potential of 1,248 MCF of gas per day from the Dakota interval 7,861 to 7,978 feet.

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

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

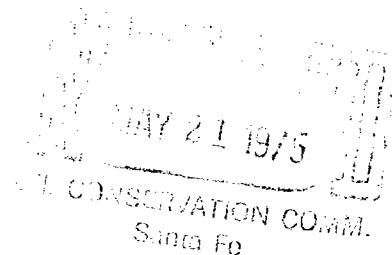
cc:
BLM, Santa Fe (ltr only)
/ NMOCC, Santa Fe (ltr only)
Durango (w/cy appln)

JAGillham:ds

El Paso Natural Gas Company

El Paso, Texas 79701

May 16, 1975



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: 1975 Drilling Programs

Gentlemen:

The 1975 Drilling Programs for the listed units were approved by the Regulatory Agencies on the dates indicated.

	<u>DATE OF APPROVAL</u>		
<u>Unit</u>	<u>USGS</u>	<u>OCC</u>	<u>CPL</u>
San Juan 27-5	5-7-75	3-24-75	3-11-75
✓ San Juan 28-5	5-7-75	3-24-75	--
San Juan 28-6	4-24-75	1-13-75	1-15-75
San Juan 28-7	4-24-75	1-27-75	1-23-75
San Juan 32-9	4-24-75	1-27-75	1-23-75
Allison	5-6-75	4-14-75	4-2-75
Canyon Largo	4-23-75	1-27-75	1-23-75

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

Yours very truly,

Don Wadsworth
Landman
Land Department
Energy Resource Development

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

553

May 13, 1975

C
O
P
Y

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

Attention: Mr. James R. Permenter

Re: Sixteenth Expanded Dakota
Participating Area, San
Juan 28-5 Unit, Rio Arriba
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Sixteenth Expanded Participating Area, Dakota Formation, for the San Juan 28-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

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: United States Geological Survey
Box 1857
Roswell, New Mexico



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

May 7, 1975

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

Gentlemen:

On this date, your 1975 plan of development for the San Juan 28-5 unit area, Rio Arriba County, New Mexico, in which you propose the drilling of no additional wells and affirm to drill any well that may be required to prevent drainage of unitized substances, 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,

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

El Paso Natural Gas Company

El Paso, Texas 79978

May 6, 1975

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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
SIXTEENTH EXPANDED PARTICIPATING
AREA, Dakota Formation, Effective
December 1, 1974

Gentlemen:

We are enclosing for your approval six (6) copies of an application for approval of the Sixteenth Expanded Participating Area of the Dakota Formation for the referenced unit.

If this application meets with your approval, please execute all copies, retain one copy for your file and forward the remaining copies 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,



James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JP:DW:nm
Enclosures
S.J. 28-5 Unit 4.3

cc: 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

El Paso Natural Gas Company

El Paso, Texas 79978

May 6, 1975

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 97501

RE: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
SIXTEENTH EXPANDED PARTICIPATING
AREA, Dakota Formation, Effective
December 1, 1974

Gentlemen:

Pursuant to the Provisions of Section 11(b) of the San Juan 28-5 Unit Agreement, #14-08-001-949, approved August 25, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Sixteenth Expanded Participating Area for the Dakota Formation, to wit:

SIXTEENTH EXPANDED PARTICIPATING AREA - Effective December 1, 1974

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 5 West, N.M.P.M.</u>	
<u>Section 15:E/2</u>	<u>320.00</u>
Total	320.00

The proposed Sixteenth Expanded Participating Area for the Dakota Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the San Juan 28-5 Unit #93 Well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

The San Juan 28-5 Unit #93 well, located 1715' from the North line and 1590' from the East line of Section 15 Township 28 North, Range 5 West, N.M.P.M., was spudded on October 1, 1974, and completed on December 11, 1974, in the Dakota Formation at a total depth of 8041'. The Dakota Formation in the intervals 7861', 7880', 7910', 7929', 7938' and 7978' was treated with a sand-water fracturing process on November 19, 1974. The well was shut-in on November 27, 1974 and after being shut-in for fifteen (15) days the well was tested on December 11, 1974 and following a three (3) hour blow-down period, the Dakota Formation gauged 1225 MCF/D through a 3/4" choke and 1248 MCF/D by the calculated absolute open-flow method, with an SIPC of 2412 psia and an SIPT of 2412 psia. The spacing unit for this well is described as the E/2 of Section 15, Township 28 North, Range 5 West, containing 320.00 acres.

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 Sixteenth Expanded Participating Area for the Dakota Formation within the San Juan 28-5 Unit.

EXHIBIT "B"

Geological Report on the Sixteenth Expanded Participating Area for the Dakota Formation within the San Juan 28-5 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-5 Dakota Structure Map
Figure No. 2: San Juan 28-5 Dakota Isopach Map

EXHIBIT "D"

Schedule of Dakota Gas Production

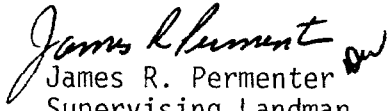
Attached hereto is Schedule XVII that shows the proposed Sixteenth Expanded Participating Area for the Dakota Formation in the San Juan 28-5 Unit Area. This schedule describes the Expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the percentage of ownership in each tract.

If this Sixteenth Expanded Participating Area for the Dakota 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.

United States Geological Survey
Oil Conservation Commission
Page Three

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:DW:dm
Enclosures
SJ 28-5 Unit 4.3

CC: Mr. Antonio Martinez
Executive Director
New Mexico Oil & Gas Accounting Commission
Post Office Box 2308
Santa Fe, New Mexico 97501

Commissioner of Public Lands (Information only)
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

APPROVED: _____ DATE: _____
Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by the
Oil Conservation Commission

APPROVED:  DATE: May 13, 1975
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

The foregoing approvals are for the Sixteenth Expanded Participating Area for the Dakota Formation, San Juan 28-5 Unit #14-08-001-949, Rio Arriba County, New Mexico.

553
OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

March 24, 1975

C
O
P
Y

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

Attention: Mr. James R. Permenter

Re: Initial Pictured Cliffs Participating
Area, San Juan 28-5 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, Pictured Cliffs Formation for the San Juan 28-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

One approved copy of the application is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey
Roswell, New Mexico

553

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

March 24, 1975

C
O
P
Y

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

Attention: Mr. D. N. Canfield

Re: 1975 Drilling Program,
San Juan 28-5 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 providing for the drilling of no wells for the San Juan 28-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

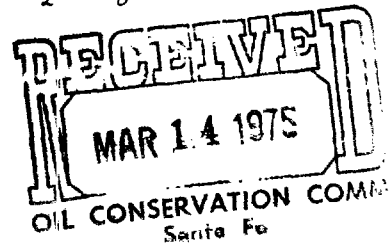
ALP/JEK/og

cc: United States Geological Survey
Roswell, New Mexico

El Paso Natural Gas Company

El Paso, Texas 79978

March 10, 1975



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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
1975 DRILLING PROGRAM

Gentlemen:

By letter dated April 11, 1974, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1974 providing for the drilling of two (2) Dakota wells. Each of these wells was timely drilled.

Well #93 was drilled outside the existing Dakota Participating Area and occasioned the Sixteenth Expanded Participating Area of the Dakota Formation. Well #95 was completed as a commercial well and caused the initial expansion of the Pictured Cliffs Participating Area.

Dakota Wells Numbers 94 and 96 were not drilled due to a shortage of tubular goods and will not be carried forward on our 1975 Drilling Program.

With the completion of the above-mentioned wells, the total number of wells in the San Juan 28-5 Unit is as follows:

Pictured Cliffs	1
Mesaverde	46
Dual, Mesaverde-Dakota	6
Mesaverde, Non-commercial	1
Dakota	38
Dakota, Non-commercial	1
	<hr/> 93

Pursuant to Section 10 of the San Juan 28-5 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of no wells during the calendar year 1975.

Regional Oil and Gas Supervisor
Oil Conservation Commission
Page Two

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells required to prevent drainage of unitized substances, and any other wells subsequently 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 the desires of a majority of the working interest owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners also believe that all current obligations have been satisfied.

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,

A handwritten signature in dark ink, appearing to read "D. N. Canfield", with a stylized flourish at the end.

D. N. Canfield
Director of Land
Energy Resource Development

DNC:DW:km
San Juan 28-5 Unit, 3.0

cc: Commissioner of Public Lands
(Information only)

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

DATE: _____

APPROVED: *A. L. Porter*
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

DATE: March 24, 1975

The foregoing approvals are for the 1975 Drilling Program for the
San Juan 28-5 Unit, #14-08-001-949, Rio Arriba County, New Mexico.

SAN JUAN 28-5 UNIT
Working Interest Owners

Mr. J. R. Abercrombie

Dr. W. E. Alsup

American Petrofina Company of Texas

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

Mr. and Mrs. Thomas A. Dugan

Flag-Redfern Oil Company

General American Oil Company of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mabelle Miller

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Texas Commerce Bank N.A., Ancillary
Guardian of the Estate of John L.
Abercrombie

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace & Mr.
James A. Brown, Trustees under
the Last Will and Testament of
A. W. Brown

El Paso Natural Gas Company

El Paso, Texas 79978

February 21, 1975

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 97501

RE: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
INITIAL PARTICIPATING
AREA, Pictured Cliffs Formation
Effective January 17, 1975

Gentlemen:

Pursuant to the Provisions of Section 11 (b) of the San Juan 28-5 Unit Agreement, #14-08-001-949, approved August 25, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Initial Participating Area for the Pictured Cliffs Formation, to wit:

INITIAL PARTICIPATING AREA - Effective January 17, 1975

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 5 West, N.M.P.M.</u>	
Section 31: Lots 1,2,3,4, N/2 S/2	<u>319.28</u>
Total	319.28


The proposed Initial Participating Area for the Pictured Cliffs Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the San Juan 28-5 Unit #95 Well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation. This well is as follows:

The San Juan 28-5 Unit #95 well, located 1170' from the South line and 880' from the West line of Section 31, Township 28 North, Range 5 West, N.M.P.M., was spudded on June 1, 1974, and completed on September 20, 1974, in the Pictured Cliffs Formation at a total depth of 3283'. The Pictured Cliffs Formation in the intervals between 3462'-3474' and 3190'-3214' was treated with a sand-water fracturing process on August 29, 1974. The well was shut-in on September 10, 1974 and after being shut-in for ten (10) days the well was tested on September 20, 1974 and following a three (3) hour blow-down period, the Pictured Cliffs Formation gauged 1320 MCF/D through a 3/4" choke and 1338 MCF/D by the calculated absolute open-flow method, with an SIPC of 1092 psia. The spacing unit for this well is described as the S/2 of Section 31, Township 28 North, Range 5 West, containing 319.28 acres.

Attached hereto is Schedule I that shows the proposed Initial Participating Area for the Pictured Cliffs Formation in the San Juan 28-5 Unit Area. This schedule describes the Pictured Cliffs Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the percentage of ownership in each tract. Inasmuch as this needs no official approval, no provision is made therefore, and in the absence of disapproval, this Participating Area will become effective as of January 17, 1975, date of first production.

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;DW;dm
Enclosures
SJ 28-5 Unit 4.1.1

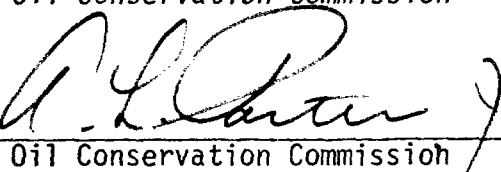
CC: Mr. Antonio Martinez
Executive Director
New Mexico Oil & Gas Accounting Commission
Post Office Box 2308
Santa Fe, New Mexico 87501

Commissioner of Public Lands (Information Only)
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

APPROVED: _____ DATE: _____

Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by the
Oil Conservation Commission

APPROVED: _____



DATE: March 24, 1975

Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

The foregoing approvals are for the Initial Participating Area for the
Pictured Cliffs Formation, San Juan 28-5 Unit #14-08-001-949, Rio
Arriba County, New Mexico.

SAN JUAN 28-5 UNIT
Working Interest Owners

Mr. J. R. Abercrombie

Dr. W. E. Alsup

American Petrofina Company of Texas

Amoco Production Company
Farmington, New Mexico

Amoco Production Company (3)
Denver, Colorado

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

Mr. and Mrs. Thomas A. Dugan

Flag-Redfern Oil Company

General American Oil Company of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mabelle Miller

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Texas Commerce Bank N.A., Ancillary
Guardian of the Estate of John L.
Abercrombie

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace & Mr.
James A. Brown, Trustees under
the Last Will and Testament of
A. W. Brown

SCHEDULE I
INITIAL EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 28-5 UNIT AREA

RIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 8						
079521-A	T-28-N, R-8-W	319.28	Royalty;	12.500000%	12.500000%	100.00%
	Sec. 31: Lots 1, 2,		Working Interest:			
	3, 4, N/2 S/2		E1 Paso Natural Gas Company;	65.625	65.625	
			Catherine B. McElvain, individually and as Executrix, et al	21.875	21.875	
				<u>100.000000%</u>	<u>100.000000%</u>	<u>100.00%</u>

SCHEDULE I
INITIAL EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 28-5 UNIT

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

RECAPITULATION

Description of Lands in Participating Area:

Township 28 North, Range 5 West, N.M.P.M.

Section 31: S/2

Total number of acres in Participating Area: 319.28
Total number of acres committed to Participating Area: 319.28

Percent of Basic Royalty Committed: 100.00%
Percent of Working Interest Committed: 100.00%
Percent of ORRI Committed: 100.00%



United States Department of the Interior

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

553

May 22, 1974

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

Gentlemen:

Three approved copies of your 1974 plan of development for the San Juan 28-5 unit area, Rio Arriba County, New Mexico, are enclosed. Such plan, proposing the drilling of two Dakota wells and one Pictured Cliffs well, was approved on this date subject to like approval by the appropriate official of the State of New Mexico.

Sincerely yours,
(ORIG. SGD.) N. O. FREDERICK

N. O. FREDERICK
Area Oil and Gas Supervisor

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

JAGillham:ds

El Paso Natural Gas Company

El Paso, Texas 79974

April 29, 1974

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

Re: San Juan 28-5 Unit
15th Dakota Expansion
Effective October 1, 1973

Gentlemen:

This is to advise that the captioned Expansion for the San Juan 28-5 Unit was approved by the regulatory agencies on the following dates:

United States Geological Survey - April 24, 1974
Oil Conservation Commission - March 26, 1974

Copies of this letter are being sent to the working interest owners of the San Juan 28-5 Unit.

Yours very truly,



Don Wadsworth
Landman
Land Department
Energy Resource Development

DW:lj
SJ 28-5 Unit 4.3

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

Mr. Antonio Martinez
Executive Director, New Mexico
Oil and 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

April 24, 1974

555

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

Gentlemen:

The fifteenth revision of the Dakota participating area for the San Juan 28-5 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-949, was approved on April 24, 1974, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of October 1, 1973. By such revision, the Dakota participating area is enlarged to 13,944.65 acres.

The fifteenth revision of the Dakota participating area proposes the W $\frac{1}{2}$ sec. 14, T. 28 N., R. 5 W., N.M.P.M., and is based on the completion of unit well No. 91 in the SW $\frac{1}{4}$ sec. 14, as a paying well pursuant to the terms of the unit agreement. Unit well No. 91 was completed on October 5, 1973, for a calculated absolute open flow potential of 2,905 MCFGPD from the Dakota interval 8,054 to 8,170 feet.

Copies of the approved applications 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,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

BLM, Santa Fe (ltr only)

✓ NMOCC, Santa Fe (ltr only)

Durango (w/cy appln)

JAMonro:ds

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

553

April 22, 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,
San Juan 28-5 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 providing for the drilling of two Dakota wells and a Pictured Cliffs well during the calendar year 1974 for the San Juan 28-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

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

El Paso Natural Gas Company

El Paso, Texas 79978

April 11, 1974

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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
1974 DRILLING PROGRAM

Gentlemen:

By letter dated March 22, 1973, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1973 providing for the drilling of two (2) Dakota wells. Each of these wells was timely drilled.

Wells #91 and #92 were drilled outside the existing Dakota Participating Area and occasioned the Fourteenth and Fifteenth Expanded Participating Areas of the Dakota Formation, respectively.

With the completion of the above-mentioned wells, the total number of wells in the San Juan 28-5 Unit is as follows:

Mesaverde	46
Dual, Mesaverde-Dakota	6
Mesaverde, Non-commercial	1
Dakota	37
Dakota, Non-commercial	1
	<hr/> 91

Pursuant to Section 10 of the San Juan 28-5 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 1974.

<u>Well and Location</u>	<u>Formation</u>
1. San Juan 28-5 Unit #93 Well E/2 Section 15, T-28-N, R-5-W	Dakota
2. San Juan 28-5 Unit #94 Well Non-standard Lot 1, NW/4 NE/4 Section 36, Lot 3,4, W/2 SE/4, SW/4 NE/4 Section 25, T-28-N, R-5-W	Dakota
3. San Juan 28-5 Unit #95 Well S/2 Section 31, T-28-N, R-5-W	Pictured Cliffs

The #93 well will be located on a spacing unit outside of the existing Dakota Participating Area in order to extend the limits of the Participating Area. The #94 well will be drilled on a spacing unit partially in and partially outside of the Dakota Participating Area and will cause a partial expansion of the Dakota Participating Area if successful. Amoco Production Company refused to join in the drilling of this well and is being carried under the non-consent provisions of the unit agreement and unit operating agreement. The #95 well will cause the initial Pictured Cliffs Participating Area if successful.

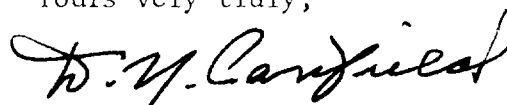
In addition to the above wells, El Paso Natural Gas Company, as Unit Operator, will drill any offset wells required to prevent drainage of unitized substances, and any other wells subsequently deemed necessary or desirable by the Unit Operator and the working interest owners.

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

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
Manager
Land Department
Energy Resource Development

DNC:DW:mcv
S.J. 28-5 Unit 3.0

cc: Commissioner of Public Lands
(Information only)

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

DATE: _____

APPROVED:  _____
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

DATE: April 22, 1974

The foregoing approvals are for the 1974 Drilling Program for the San Juan 28-5 Unit, #14-08-001-949, Rio Arriba County, New Mexico.

SAN JUAN 28-5 UNIT
WORKING INTEREST OWNERS

Mr. J. R. Abercrombie

Dr. W. E. Alsup

American Petrofina Company of Texas

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

General American Oil Co. of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mr. Forrest B. Miller & Mabelle Miller

Flag-Redfern Oil Company

Thomas A. Dugan, et ux

Northwest Pipeline Corporation

Phillips Petroleum Company

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Texas Commerce Bank N.A., Ancillary
Guardian of the Estate of John L.
Abercrombie

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace & Mr.
James A. Brown, Trustees under
the Last Will and Testament of A. W.
Brown

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 26, 1974

553

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

Attention: Mr. James R. Permenter

Re: Fifteenth Expanded Dakota
Participating Area, San Juan
28-5 Unit, Rio Arriba County,
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Fifteenth Expanded Participating Area Dakota Formation for the San Juan 28-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

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: 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 14, 1974

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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
FIFTEENTH EXPANDED PARTICIPATING
AREA, Dakota Formation, Effective
October 1, 1973

Gentlemen:

Pursuant to the Provisions of Section 11(b) of the San Juan 28-5 Unit Agreement, #14-08-001-949, approved August 25, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Fifteenth Expanded Participating Area for the Dakota Formation, to wit:

FIFTEENTH EXPANDED PARTICIPATING AREA - Effective October 1, 1973

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 5 West, N.M.P.M.</u>	
Section 14: W/2	<u>320.00</u>
Total	320.00

The proposed Fifteenth Expanded Participating Area for the Dakota Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the San Juan 28-5 Unit #91 Well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

The San Juan 28-5 Unit #91 well, located 1000' from the South line and 825' from the West line of Section 14, Township 28 North, Range 5 West, N.M.P.M., was spudded on July 15, 1973, and completed on October 5, 1973, in the Dakota Formation at a total depth of 8182'. The Dakota Formation in the intervals 8054', 8057', 8100', 8116', 8121', 8126', and 8170' was treated with a sand-water fracturing process on September 23, 1973. The well was shut-in on September 27, 1973, and after being shut-in for seven (7) days the well was tested on October 5, 1973, and following a three (3) hour blow-down period, the Dakota Formation gauged 2833 MCF/D through a 3/4" choke and 2905 MCF/D by the calculated absolute open-flow method, with an SIPC of 2627 psia and an SIPT of 2391 psia. The spacing unit for this well is described as the W/2 of Section 14, Township 28 North, Range 5 West, containing 320.00 acres.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the unit and the Fifteenth Expanded Participating Area for the Dakota Formation within the San Juan 28-5 Unit.

EXHIBIT "B"

Geological Report on the Fifteenth Expanded Participating Area for the Dakota Formation within the San Juan 28-5 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-5 Dakota Structure Map
Figure No. 2: San Juan 28-5 Dakota Isopach Map

EXHIBIT "D"

Schedule of Dakota Gas Production

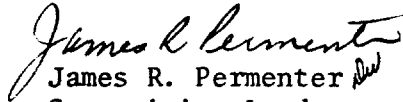
Attached hereto is Schedule XVI that shows the proposed Fifteenth Expanded Participating Area for the Dakota Formation in the San Juan 28-5 Unit Area. This schedule describes the Expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the percentage of ownership in each tract.

If this Fifteenth Expanded Participating Area for the Dakota 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.

United States Geological Survey
Oil Conservation Commission
Page Three

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:DW:mcv
Enclosures
SJ 28-5 Unit 4.3

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


Commissioner of Public Lands (Information only)
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

APPROVED: _____

Regional Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by the
Oil Conservation Commission

DATE: _____

APPROVED: _____


Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

DATE: March 26, 1974

The foregoing approvals are for the Fifteenth Expanded Participating Area for the Dakota Formation, San Juan 28-5 Unit #14-08-001-949, Rio Arriba County, New Mexico.

El Paso Natural Gas Company

El Paso, Texas 79978

March 14, 1974

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

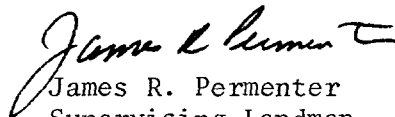
Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
FIFTEENTH EXPANDED PARTICIPATING
AREA, Dakota Formation, Effective
October 1, 1973

Gentlemen:

We are enclosing for your approval six (6) copies of an application for approval of the Fifteenth Expanded Participating Area of the Dakota Formation for the referenced unit.

If this application meets with your approval, please execute all copies, retain one copy for your file and forward the remaining copies 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,



James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JP:DW:mcv
Enclosures
SJ 28-5 Unit 4.3

cc: Regional Oil & Gas Supervisor	Commissioner of Public Lands
United States Geological Survey	State of New Mexico
Drawer 1857	Post Office Box 1148
Roswell, New Mexico 88201	Santa Fe, New Mexico 87501
	(Information only - w/encls.)

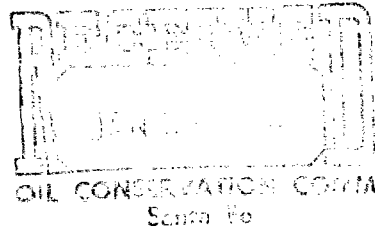
El Paso Natural Gas Company

El Paso, Texas 79978

January 25, 1974

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



Re: San Juan 28-5 Unit
Fourteenth Expanded Participating
Area, Dakota Formation
Effective July 1, 1973

Gentlemen:

The above referenced expansion was approved by the regulatory agencies on the dates set out below:

United States Geological Survey
Oil Conservation Commission

12-4-73
1-9-74

Copies of this letter are being sent to all San Juan 28-5 Dakota Participating Area Working Interest Owners.

Yours very truly,

Don Wadsworth
Landman
Land Department
Energy Resource Development

DW:sn
S.J. 28-5, 4.3

cc: Commissioner of Public Lands

fin

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

553

January 9, 1974

C
O
P
Y

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

Attention: Mr. James R. Permenter

Re: Fourteenth Expanded Dakota
Participating Area, San
Juan 28-5 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, Dakota Formation for the San Juan 28-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

One approved copy of the application is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

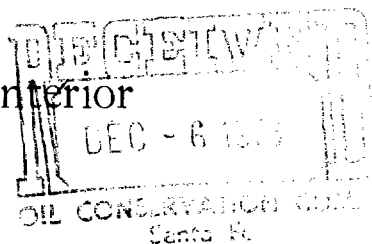
cc: U. S. Geological Survey
Roswell, New Mexico



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



December 4, 1973

553
El Paso Natural Gas Company
Attention: Mr. James R. Permenter
P.O. Box 1492
El Paso, Texas 79978

Gentlemen:

Your application of November 27, 1973, requesting approval of the fourteenth revision of the Dakota participating area for the San Juan 28-5 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-949 was approved on December 4, 1973, by the Acting Oil and Gas Supervisor, U. S. Geological Survey, effective as of July 1, 1973.

The fourteenth revision adds 320 acres described as the W $\frac{1}{2}$ sec. 24, T. 28 N., R. 5 W., N.M.P.M., which enlarges the Dakota participating area to 13,624.65 acres. Such revision is based on unit well No. 92 in the SW $\frac{1}{4}$ sec. 24 which was completed July 26, 1973, for a calculated open flow potential of 2,374 MCFGPD from the Dakota interval 8,458 to 8,602 feet.

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

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

Durango (w/cy appln)

BLM, Santa Fe (ltr only)

✓ NMOCC, Santa Fe (ltr only)

Com. Pub. Lands, Santa Fe (ltr only)

JAGillham:ds

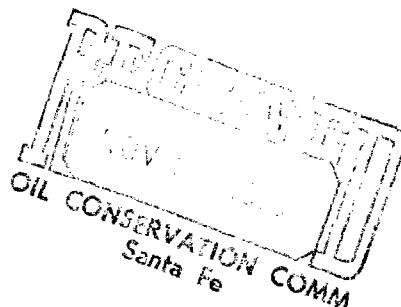
El Paso Natural Gas Company

El Paso, Texas 79978

November 27, 1973

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



Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
FOURTEENTH EXPANDED PARTICIPATING
AREA, Dakota Formation, Effective
July 1, 1973

Gentlemen:

Pursuant to the Provisions of Section 11(b) of the San Juan 28-5 Unit Agreement, #14-08-001-949, approved August 25, 1953, 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 July 1, 1973

<u>Description of Lands</u>	<u>Acres</u>
Township 28 North, Range 5 West, N.M.P.M.	
Section 24: W/2	<u>320.00</u>
Total	320.00

The proposed Fourteenth Expanded Participating Area for the Dakota Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the San Juan 28-5 Unit #92 Well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

The San Juan 28-5 Unit #92 well, located 1820' from the South line and 985' from the West line of Section 24, Township 28 North, Range 5 West, N.M.P.M., was spudded on June 25, 1973,

and completed on July 26, 1973, in the Dakota Formation at a total depth of 8612'. The Dakota Formation in the intervals between 8458', 8460', 8462', 8464', 8514', 8516', 8518', 8536', 8538', 8540', 8542', 8598', and 8600' , 8602' was treated with a sand-water fracturing process on July 11, 1973. The well was shut-in on July 14, 1973, and after being shut-in for twelve (12) days the well was tested on July 26, 1973, and following a three (3) hour blow-down period, the Dakota Formation gauged 2334 MCF/D through a 3/4" choke and 2374 MCF/D by the calculated absolute open-flow method, with an SIPC of 2527 psia and an SIPT of 1832 psia. The spacing unit for this well is described as the W/2 of Section 24, Township 28 North, Range 5 West, containing 320.00 acres.

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 for the Dakota Formation within the San Juan 28-5 Unit.

EXHIBIT "B"

Geological Report on the Fourteenth Expanded Participating Area for the Dakota Formation within the San Juan 28-5 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-5 Dakota Structure Map
Figure No. 2: San Juan 28-5 Dakota Isopach Map

EXHIBIT "D"

Schedule of Dakota Gas Production

Attached hereto is Schedule XV that shows the proposed Fourteenth Expanded Participating Area for the Dakota Formation in the San Juan 28-5 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 for the Dakota 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.

United States Geological Survey
Oil Conservation Commission
Page Three

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:DW:sn
Enclosures
SJ 28-5 Unit 4.3

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

Commissioner of Public Lands (Information Only)
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

APPROVED: _____

Regional Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by the
Oil Conservation Commission

DATE: _____

APPROVED: _____

A. L. Potter
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

DATE: _____

January 9, 1974

The foregoing approvals are for the Fourteenth Expanded Participating Area for the Dakota Formation, San Juan 28-5 Unit #14-08-001-949, Rio Arriba County, New Mexico.

SAN JUAN 28-5 UNIT
Working Interest Owners

Mr. J. R. Abercrombie

Phillips Petroleum Company

Dr. W. E. Alsup

Mr. H. O. Pool

American Petrofina Company of Texas

Mr. Joe Quinn

Amoco Production Company (3)
Denver, Colorado

Mr. M. A. Romero

Amoco Production Company
Farmington, New Mexico

Texas Commerce Bank N.A., Ancillary
Guardian of the Estate of John L.
Abercrombie

Mrs. Lela L. Barkley

Mr. Robert P. Tinnin

Mr. Tom Bolack and Alice Bolack

Ruth M. Vaughan

Mrs. Evelyn G. Brown

Mrs. Evelyn Ellen Wallace & Mr.
James A. Brown, Trustees under
the Last Will and Testament of A. W.
Brown

Mr. James A. Brown

General American Oil Co. of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mr. Forrest B. Miller & Mabelle Miller

N.B.S. Corporation

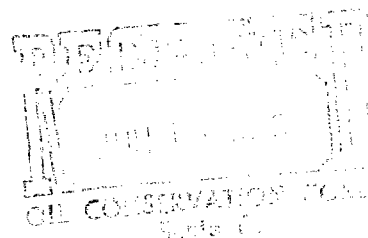
El Paso Natural Gas Company

El Paso, Texas 79978

June 14, 1973

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



Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
THIRTEENTH EXPANDED PARTICIPATING
AREA, Dakota Formation, Effective
July 1, 1972

Gentlemen:

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

United States Geological Survey - June 4, 1973
Oil Conservation Commission - May 23, 1973

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

Yours very truly,

Larry A. Pridgeon
Landman, Land Department
Energy Resource Development

LAP:lj
SJ 28-5 Unit 4.3

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

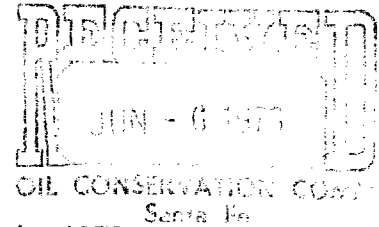
Mrs. Pepita O. Jeffus
Executive Director
New Mexico Oil & Gas Accounting Commission
P. O. Box 2308
Santa Fe, New Mexico 87501



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



June 4, 1973

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

Gentlemen:

Your application of May 21, 1973, requesting approval of the thirteenth revision of the Dakota participating area for the San Juan 28-5 unit agreement, Rio Arriba County, New Mexico, 14-08-001-949, was approved on June 4, 1973, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, Roswell, New Mexico, effective as of July 1, 1972.

The thirteenth revision adds 962.35 acres described on page one of your application, which enlarges the Dakota participating area to 13,304.65 acres. Such revision is based on the information contributed by the following unit wells.

<u>Well No.</u>	<u>Location</u> <u>T. 28 N., R. 5 W.</u>	<u>Dakota Interval</u>	<u>Completion Date</u>
87	NE $\frac{1}{4}$ sec. 22	7,804 - 8,032	7-10-72
88	SW $\frac{1}{4}$ sec. 15	7,774 - 7,956	7-19-72
89	SE $\frac{1}{4}$ sec. 9	7,876 - 8,052	7-19-72

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 principals with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SGN) C-11

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Denver (w/cy appln.)
Durango (w/cy appln.)
NMOCC, Santa Fe (ltr. only)✓

JAGillham:lh

OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87501

May 23, 1973

I. R. TRUJILLO

CHAIRMAN

LAND COMMISSIONER

ALEX J. ARMIJO

MEMBER

STATE GEOLOGIST

A. L. PORTER, JR.

SECRETARY - DIRECTOR

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

Attention: Mr. James R. Permenter

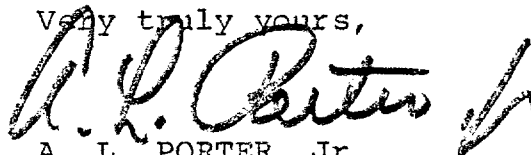
Re: Thirteenth Expanded
Participating Area,
Dakota Formation, San Juan
28-5 Unit, Rio Arriba
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Thirteenth Expanded Dakota Participating Area for the San Juan 28-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

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: United States Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
Santa Fe, New Mexico

El Paso Natural Gas Company

El Paso, Texas 79978

May 21, 1973

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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
THIRTEENTH EXPANDED PARTICIPATING
AREA, Dakota Formation, Effective
July 1, 1972

Gentlemen:

We are enclosing for your approval six (6) 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, retain one copy for your file and forward the remaining copies 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,



James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:LAP:lj
Enclosures
SJ 28-5 4.3

cc: 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

El Paso Natural Gas Company

El Paso, Texas 79978

May 21, 1973

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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
THIRTEENTH EXPANDED PARTICIPATING
AREA, Dakota Formation, Effective
July 1, 1972

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-5 Unit Agreement, #14-08-001-949, approved August 25, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Thirteenth Expanded Participating Area for the Dakota Formation, to wit:

THIRTEENTH EXPANDED PARTICIPATING AREA - Effective July 1, 1972

<u>Description of Lands</u>	<u>Acres</u>
Township 28 North, Range 5 West, N.M.P.M.	
Section 9: Lots 1,2,3, SE/4 SW/4, S/2 SE/4	211.78
Section 10: Lot 4, S/2 SW/4	110.57
Section 15: W/2	320.00
Section 22: E/2	320.00
Total	962.35

May 21, 1973

The proposed Thirteenth Expanded Participating Area for the Dakota Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the San Juan 28-5 Unit #87, #88 and #89 Wells are capable of producing unitized substances in paying quantities from the Dakota Formation. These wells are as follows:

The San Juan 28-5 Unit #87 Well, located 1050' from the North line and 1840' from the East line of Section 22, Township 28 North, Range 5 West, N.M.P.M., was spudded on April 23, 1972, and completed on July 2, 1972 in the Dakota Formation at a total depth of 8055'. The Dakota Formation in the intervals between 7844'-7850', 7906'-7912', 7924'-7936', 8004'-8016', and 8026'-8032' was treated with a sand-water fracturing process on July 1, 1972. The well was shut-in on July 2, 1972. After being shut-in for eight (8) days, the well was tested on July 10, 1972, and following a three (3) hour blow-down period, the Dakota Formation gauged 2472 MCF/D through a 3/4" choke and 2734 MCF/D by the calculated absolute open-flow method, with an SIPC of 2066 psia and an SIPT of 1854 psia. The spacing unit for this well is described as the E/2 of Section 22, Township 28 North, Range 5 West, N.M.P.M., containing 320.00 acres.

The San Juan 28-5 Unit #88 Well, located 990' from the South line and 800' from the West line of Section 15, Township 28 North, Range 5 West, N.M.P.M., was spudded on May 9, 1972, and completed on July 6, 1972 in the Dakota Formation at a total depth of 7989'. The Dakota Formation in the intervals between 7774'-7780', 7854'-7860', 7898'-7904' and 7950'-7956' was treated with a sand-water fracturing process on July 4, 1972. The well was shut-in on July 7, 1972. After being shut-in for twelve (12) days, the well was tested on July 19, 1972, and following a three (3) hour blow-down period, the Dakota Formation gauged 527 MCF/D through a 3/4" choke and 533 MCF/D by the calculated absolute open-flow method, with an SIPC of 2627 psia and an SIPT of 1654 psia. The spacing unit for this well is described as the W/2 of Section 15, Township 28 North, Range 5 West, N.M.P.M., containing 320.00 acres.

May 21, 1973

The San Juan 28-5 Unit #89 well, located 990' from the South line and 800' from the East line of Section 9, Township 28 North, Range 5 West, N.M.P.M., was spudded on May 24, 1972, and completed on July 10, 1972 in the Dakota Formation at a total depth of 8088'. The Dakota Formation in the intervals between 7876'-7882', 7952'-7958', 8016'-8022', and 8046'-8052' was treated with a sand-water fracturing process on July 8, 1972. The well was shut-in on July 11, 1972. After being shut-in for eight (8) days, the well was tested on July 19, 1972, and following a three (3) hour blow-down period, the Dakota Formation gauged 319 MCF/D through a 3/4" choke and 322 MCF/D by the calculated absolute open-flow method, with an SIPC of 2370 psia and an SIPT of 544 psia. The spacing unit for this well is described as the E/2 SW/4, SE/4 of Section 9, and W/2 SW/4, SE/4 SW/4 of Section 10, Township 28 North, Range 5 West, N.M.P.M., containing 322.35 acres.

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 for the Dakota Formation within the San Juan 28-5 Unit.

EXHIBIT "B"

Geological Report on the Thirteenth Expanded Participating Area for the Dakota Formation within the San Juan 28-5 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-5 Dakota Structure Map
Figure No. 2: San Juan 28-5 Dakota Isopach Map

EXHIBIT "D"

Schedule of Dakota Gas Production

Attached hereto is Schedule XIV that shows the proposed Thirteenth Expanded Participating Area for the Dakota Formation in the San Juan 28-5 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.


Regional Oil and Gas Supervisor
Oil Conservation Commission
Page Four

May 21, 1973

If this Thirteenth Expanded Participating Area for the Dakota 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 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:LAP:lj
Enclosures
SJ 28-5 Unit 4.3

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

Commissioner of Public Lands (Information Only)
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

APPROVED: _____

Regional Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by the
Oil Conservation Commission

DATE: _____

APPROVED: _____

A. H. Carter, Jr.
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

DATE: May 23, 1973

The foregoing approvals are for the Thirteenth Expanded Participating Area for the Dakota Formation, San Juan 28-5 Unit #14-08-001-949, Rio Arriba County, New Mexico.

SAN JUAN 28-5 UNIT
Working Interest Owners

Mr. J. R. Abercrombie

Dr. W. E. Alsup

American Petrofina Company of Texas

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

General American Oil Co. of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mr. Forrest B. Miller & Mabelle Miller

N.B.S. Corporation

Phillips Petroleum Company

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Texas Commerce Bank N.A., Ancillary
Guardian of the Estate of John L.
Abercrombie

Mr. Robert P. Tinnin

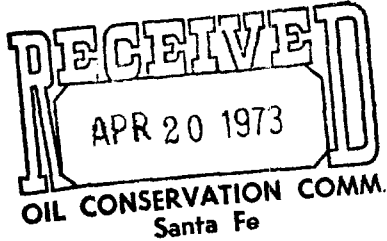
Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace & Mr.
James A. Brown, Trustees under
the Last Will and Testament of A. W.
Brown

El Paso Natural Gas Company

El Paso, Texas 79978

April 18, 1973



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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
1973 DRILLING PROGRAM

Gentlemen:

The 1973 Drilling Program for the San Juan 28-5 Unit dated March 22, 1973, was approved by the regulatory bodies on the following dates:

United States Geological Survey	-	April 4, 1973
Oil Conservation Commission	-	April 5, 1973

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 "Larry A. Pridgeon".

Larry A. Pridgeon
Landman, Land Department
Energy Resource Development

LAP:dkc
S.J. 28-5, 3.0

cc: Commissioner of Public Lands
Santa Fe, New Mexico 87501

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

553

April 5, 1973

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

Attention: Mr. D. N. Canfield

Re: 1973 Drilling Program
San Juan 28-5 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 two Dakota wells for the San Juan 28-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

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
Box 1857
Roswell, New Mexico

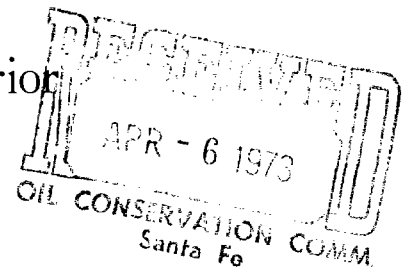
Commissioner of Public Lands
Land Office Building
Santa Fe, New Mexico



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



April 4, 1973

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 San Juan 28-5 unit area, Rio Arriba County, New Mexico, proposing the drilling of two Dakota wells on lands outside the existing Dakota participating area, 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. FILED IN 100-100000-100000)

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

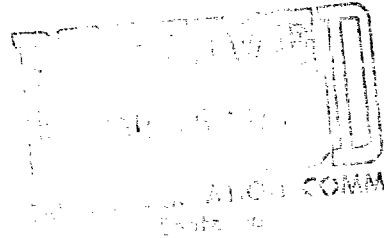
El Paso Natural Gas Company

El Paso, Texas 79978

March 22, 1973

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



Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
1973 DRILLING PROGRAM

Gentlemen:

By letter dated March 17, 1972, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1972 providing for the drilling of one (1) Mesaverde and three (3) Dakota wells. Each of these wells was timely drilled.

Mesaverde well #4-Y, drilled to replace the San Juan 28-5 Unit #4 which was plugged and abandoned, was drilled within the existing Mesaverde Participating Area; therefore, an Expansion of the Participating Area was not necessary. Wells #87, #88 and #89 were drilled outside the existing Dakota Participating Area and occasioned the Thirteenth Expanded Participating Area of the Dakota Formation.

With the completion of the above-mentioned wells, the total number of wells in the San Juan 28-5 Unit is as follows:

Mesaverde	46
Dual, Mesaverde-Dakota	6
Mesaverde, Non-commercial	1
Dakota	35
Dakota, Non-commercial	1
	<u>89</u>

March 22, 1973

Pursuant to Section 10 of the San Juan 28-5 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>Well & Location</u>	<u>Formation</u>
1. San Juan 28-5 Unit #91 Well W/2 Sec. 14, T-28-N, R-5-W	Dakota
2. San Juan 28-5 Unit #92 Well W/2 Sec. 24, T-28-N, R-5-W	Dakota

Each of these wells will be located on spacing units outside of the existing Dakota Participating Area in order to extend the limits of the Participating Area.


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 subsequently 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 the desires of a majority of the working interest owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners also believe that all current obligations have been satisfied.

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
Manager
Land Department
Energy Resource Development

DNC:LAP:nja
S.J. 28-5 Unit 3.0


cc: Commissioner of Public Lands
(Information Only)

APPROVED: _____

Regional Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by the
Oil Conservation Commission

DATE: _____

APPROVED: _____


Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

DATE: April 5, 1973

The foregoing approvals are for the 1973 Drilling Program for the San Juan 28-5 Unit, #14-08-001-949, Rio Arriba County, New Mexico.

SAN JUAN 28-5 UNIT
Working Interest Owners

Mr. J. R. Abercrombie

Dr. W. E. Alsop

American Petrofina Company of Texas

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Mrs. Lela L. Barkley

Mr. Tom Bolack and Mrs. Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

General American Oil Company of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mr. Forrest B. Miller and
Mrs. Mabelle M. Miller

Phillips Petroleum Company

N.B.S. Corporation

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Texas Commerce Bank N.A.,
Ancillary Guardian of the
Estate of John L. Abercrombie

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace &
Mr. James A. Brown, Trustees
under the Last Will & Testament
of A. W. Brown

El Paso Natural Gas Company

El Paso, Texas 79978

February 21, 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: San Juan 28-5 Unit #14-08-001-949
NOTICE OF COMPLETION OF ADDITIONAL
WELL, Mesaverde Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-5 Unit Agreement #14-08-001-949 approved August 25, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one additional well capable of producing unitized substances in commercial quantities from the Mesaverde Formation has been completed upon acreage committed to the Unit. This well is as follows:

The San Juan 28-5 Unit #4-Y well, located 1505' from the North line and 1750' from the East line of Section 19, Township 28 North, Range 5 West, Rio Arriba County, New Mexico, was spudded on October 3, 1972, and completed on October 20, 1972, in the Mesaverde Formation at a total depth of 5900'. The Mesaverde Formation in the intervals between 5196'-5204', 5218'-5226', 5234'-5244', 5616'-5632', 5674'-5690', 5706'-5714', 5724'-5732', 5756'-5764', 5790'-5798', 5808'-5816', 5858'-5866' was treated with a sand-water fracturing process on October 14, 1972, and October 18, 1972.

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

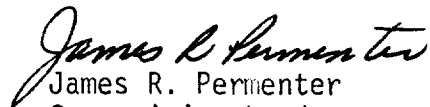
February 21, 1973

The well was shut-in on October 21, 1972, and after being shut-in for gauge for nine (9) days, the well was tested on October 30, 1972, and following a three-hour blow-down period the Mesaverde Formation gauged 1982 MCF/D through a 3/4" choke and 2531 MCF/D by the calculated absolute open-flow method, with an SIPC of 978 psia and an SIPT of 978 psia. The committed drilling block upon which this well is located is described as the N/2 of Section 19, Township 28 North, Range 5 West, containing 320.00 acres.

This drilling block was included in the San Juan 28-5 First Expanded Participating Area of the Mesaverde Formation, effective January 1, 1954; therefore, the Participating Area is not enlarged.

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

Yours very truly,



James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DI:nja
Attachment
San Juan 28-5 Unit 4.2

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

SAN JUAN 28-5 UNIT
Working Interest Owners

Mr. J. R. Abercrombie

Dr. W. E. Alsup

American Petrofina Company of Texas

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

General American Oil Co. of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mr. Forrest B. Miller & Mabelle Miller

N.B.S. Corporation

Phillips Petroleum Company

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Texas Commerce Bank N. A., Ancillary
Guardian of the Estate of John L.
Abercrombie

Mr. Robert P. Tinnin

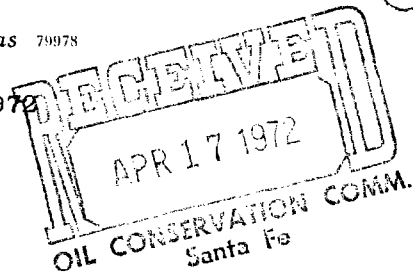
Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace &
Mr. James A. Brown, Trustees under the
Last Will and Testament of A. W. Brown

El Paso Natural Gas Company

El Paso, Texas 79978

April 14, 1972



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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
1972 DRILLING PROGRAM

Gentlemen:

The 1972 Drilling Program for the San Juan 28-5 Unit dated March 17, 1972, was approved by the regulatory bodies on the following dates:

United States Geological Survey	-	April 11, 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,

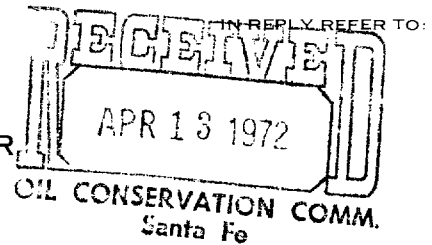
James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:nja
S.J. 28-5, 3.0

cc: Commissioner of Public Lands
Santa Fe, New Mexico 87501



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 79999

553

Attention: Mr. D. N. Canfield

Gentlemen:

Your 1972 plan of development for the San Juan 28-5 unit area, Rio Arriba County, New Mexico, proposing the drilling of three Dakota wells and one Mesaverde 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,

(C)

N. O. FREDERICK
Regional Oil and Gas Supervisor

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

JWillock:ds

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 27, 1972

553

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

Attention: Mr. D. N. Canfield

Re: 1972 Drilling Program
San Juan 28-5 Unit
Rio Arriba County,
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation has this date approved the Drilling Program providing for the drilling of four wells during the calendar year 1972 for the San Juan 28-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

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

C
O
P
Y

El Paso Natural Gas Company

El Paso, Texas 79978

March 17, 1972

RECEIVED

MAR 22 1972

CONSERVATION COMM.
SANTA FE

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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
1972 DRILLING PROGRAM

Gentlemen:

By letter dated January 6, 1971, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1971, providing for the drilling of three (3) Dakota wells. Each of these wells was timely drilled.

Wells #84 and #85 were drilled within the existing Dakota Participating Area, and did not cause an Expansion of the Participating Area. The #86 Well was drilled outside the existing Dakota Participating Area, but did not extend the limits of the Participating Area, since the well was determined to be non-commercial for Unit purposes. Notices of Completion of Additional Wells were submitted to the regulatory bodies on the #84 and #85 Wells, and a Notice of Completion of Non-Commercial Well on the #86.

With the completion of the above mentioned wells, the total number of wells in the San Juan 28-5 Unit is as follows:

Mesaverde	45
Dual, Mesaverde-Dakota	6
Mesaverde, Non-commercial	1
Dakota	32
Dakota, Non-commercial	<u>1</u>
	85

Pursuant to Section 10 of the San Juan 28-5 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:

March 17, 1972

<u>Location</u>	<u>Formation</u>
1. San Juan 28-5 Unit #4-Y Well N/2 Sec. 19, T-28-N, R-5-W	Mesaverde
2. San Juan 28-5 Unit #87 Well, E/2 Sec. 22, T-28-N, R-5-W	Dakota
3. San Juan 28-5 Unit #88 Well, W/2 Sec. 15, T-28-N, R-5-W	Dakota
4. San Juan 28-5 Unit #89 Well, Lots 1,2,3, SE/4 SW/4, S/2 SE/4 Sec. 9, and Lot 4, S/2 SW/4 Sec. 10, R-28-N, R-5-W	Dakota

Mesaverde Well #4-Y will be drilled in the existing Mesaverde Participating Area to replace the San Juan 28-5 Unit #4 Mesaverde well, which is temporarily abandoned and will be permanently abandoned during 1972. Dakota Wells #87, #88 and #89 will be located on spacing units outside of the existing Dakota Participating Area in order to extend the limits of the Participating Area.

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 subsequently 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 the desires of a majority of the working interest owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners also believe that all current obligations have been satisfied.

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
Manager
Land Department
Energy Resource Development

DNC:CTR:1j
SJ 28-5, 3.0

cc: Commissioner of Public Lands (Information only)
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

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

DATE: _____

APPROVED: R. H. Pettrich
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

DATE: March 27, 1972

The foregoing approvals are for the 1972 Drilling Program for the San Juan 28-5 Unit, #14-08-001-949, Rio Arriba County, New Mexico.

SAN JUAN 28-5 UNIT
Working Interest Owners

Mr. J. R. Abercrombie

Dr. W. E. Alsup

American Petrofina Company of Texas

Amoco Production Company (3)

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

General American Oil Co. of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mr. Forrest B. Miller & Mabelle Miller

N.B.S. Corporation

Phillips Petroleum Company

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Texas Commerce Bank N.A.,
Ancillary Guardian of the
Estate of John L. Abercrombie

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace &
Mr. James A. Brown, Trustees
under the Last Will and Testament
of A. W. Brown

El Paso Natural Gas Company

El Paso, Texas 79999

December 29, 1971

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

RECEIVED

JAN-5 1972

OIL CONSERVATION COMM.
SANTA FE

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: San Juan 28-5 Unit #14-08-001-949,
Rio Arriba County, New Mexico,
NOTICE OF COMPLETION OF ADDITIONAL
WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-5 Unit Agreement #14-08-001-949 approved on August 25, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that two (2) additional wells capable of producing unitized substances in commercial quantities from the Dakota Formation have been completed upon acreage committed to the Unit. These wells are as follows:

The San Juan 28-5 Unit #84 Well, located 1700' from the North line and 1650' from the East line of Section 16, Township 28 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on March 29, 1971 and completed on April 11, 1971 in the Dakota Formation at a total depth of 7970'. The Dakota Formation in the intervals between 7808'-7818', 7876'-7886', 7900'-7910', 7920'-7930' was treated with a sand-water fracturing process on April 10, 1971. The well was shut-in on April 11, 1971, and after being shut-in for twelve (12) days, the well was tested on April 23, 1971, and following a three (3) hour blow-down period, the Dakota Formation gauged 4057 MCFGPD through a 3/4" choke, and 4192 MCFGPD by the calculated absolute open-flow method, with an SIPC of

El Paso Natural Gas Company

El Paso, Texas 79978

December 29, 1971

RECEIVED

JAN-5 1972

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

OIL CONSERVATION COMM.
SANTA FE

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: San Juan 28-5 Unit #14-08-001-949,
Rio Arriba County, New Mexico,
NOTICE OF COMPLETION OF NON-
COMMERCIAL WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-5 Unit Agreement #14-08-001-949 approved on August 25, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that the following described well completed on lands committed to the San Juan 28-5 Unit is not capable of producing unitized substances in paying quantities from the Dakota Formation:

The San Juan 28-5 Unit #86 Well, located 1450' from the South line and 1190' from the West line of Section 23, Township 28 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on April 12, 1971 and completed on May 9, 1971 in the Dakota Formation at a total depth of 8489'. The Dakota Formation in the intervals between 8336'-8350', 8408'-8422', 8432'-8446' was treated with a sand-water fracturing process on May 8, 1971. The well was shut-in on May 9, 1971, and after being shut-in for eleven (11) days, the well was tested on May 20, 1971, and following a three (3) hour blow-down period, the Dakota Formation gauged 3214 MCFGPD through a 3/4" choke, and 3345 MCFGPD by the calculated absolute open-flow method, with an SPIC of 2698 psia and an SIPT of

December 29, 1971 RECEIVED

2698 psia. The committed spacing unit upon which this well is located is described as the W/2 of Section 23, Township 28 North, Range 5 West, N.M.P.M., containing 320.00 acres. JAN-5 1972
OIL CONSERVATION COMM.
SANTA FE

The determination that the foregoing well is non-commercial was made on December 13, 1971. Production from this well was observed for 70 days after tie-in, and served to confirm this non-commercial determination.

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

Yours very truly,



T. W. Bittick
Director
Lands and Administration
Energy Resource Development

JRP:CTR:khs
NM-2006

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

SAN JUAN 28-5 UNIT
Working Interest Owners

Mr. J. R. Abercrombie (D)	Mr. Joe Quinn
Dr. W. E. Alsup	Mr. M. A. Romero
American Petrofina Company of Texas (D)	Texas Commerce Bank N. A., Ancillary (D)
Amoco Production Company (3) (D)	Guardian of the Estate of John L. Abercrombie
Mrs. Lela L. Barkley (D)	Mr. Robert P. Tinnin (D)
Mr. Tom Bolack and Alice Bolack (D)	Ruth M. Vaughan
Mrs. Evelyn G. Brown (D)	Mrs. Evelyn Ellen Wallace & (D)
Mr. James A. Brown (D)	Mr. James A. Brown, Trustees under the Last Will and Testament of A. W. Brown
General American Oil Co. of Texas	
Mr. Thomas H. Harrington	
Lt. Col. Langdon Dewey Harrison, (D)	
Trustee for Omega E. Quinn	
Catherine M. Harvey	
Mr. Ralph H. McCullough (D)	
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. T. H. McElvain, Jr.	
Mr. Forrest B. Miller & Mabelle Miller	
N.B.S. Corporation	
Phillips Petroleum Company	
Mr. H. O. Pool (D)	

El Paso Natural Gas Company

El Paso, Texas 79999

January 29, 1971

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: 1971 DRILLING PROGRAMS
San Juan and Rio Arriba
Counties, 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>
San Juan 28-4 Unit #14-08-001-933	1-26-71	None Required	1-15-71
San Juan 28-5 Unit ✓ #14-08-001-949	1-26-71	None Required	1-15-71
San Juan 29-4 Unit #14-08-001-1055	1-26-71	None Required	1-13-71
San Juan 30-5 Unit #14-08-001-346	1-26-71	1-12-71	1-14-71
San Juan 32-7 Unit #14-08-001-441	1-26-71	1-13-71	1-14-71

January, 29, 1971

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

Yours very truly,

A handwritten signature in cursive script, appearing to read "Charles Higgins".

Charles Higgins
Supervising Landman
Land Department

CH:CTR:khs

S.J. 28-4 Unit 3.0

S.J. 28-5 Unit 3.0

S.J. 29-4 Unit 3.0

S.J. 30-5 Unit 3.0

S.J. 32-7 Unit 3.0

Drawer 1857
Roswell, New Mexico 88201

71 JAN 28 2 11 8 PM '71

January 26, 1971

553

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1971 plan of development for the San Juan 28-5 unit area, Rio Arriba County, New Mexico, proposing the drilling of three 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,

(ORIG. SCD 11-10-71)
N. O. FREDERICK
Regional Oil & Gas Supervisor

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 13, 1971

553

C

El Paso Natural Gas Company
Drawer 1857
Roswell, New Mexico 88201

Attention: Mr. T. W. Bittick

O

Re: 1971 Drilling Program
San Juan 28-5 Unit, Rio
Arriba County, New Mexico

Gentlemen:

P

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 three Dakota wells for the San Juan 28-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

One approved copy of the program is returned herewith.

Very truly yours,

Y

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

El Paso Natural Gas Company

El Paso, Texas 79999

January 6, 1971

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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
1971 DRILLING PROGRAM

Gentlemen:

By letter dated January 14, 1970, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned Unit for the calendar year 1970. Said Program provided for the drilling of no wells during the 1970 calendar year and none were drilled in the subject Unit during the year.

As of this date, the total number of wells in the San Juan 28-5 Unit is as follows:

Mesaverde	45
Dual, Mesaverde-Dakota	6
Mesaverde, Non-commercial	1
Dakota	<u>30</u>
	82

Pursuant to Section 10 of the San Juan 28-5 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 1971:

<u>Location</u>	<u>Formation</u>
San Juan 28-5 Unit #84 Well E/2 Sec. 16, T-28-N, R-5-W	Dakota
San Juan 28-5 Unit #85 Well Lots 1,2,3,4, SE/4 SW/4, S/2 SE/4 Sec. 8; Lot 4, SW/4 SW/4 Sec. 9, T-28-N, R-5-W	Dakota

Regional Oil and Gas Supervisor
Oil Conservation Commission
Page Two

January 6, 1971

<u>Location</u>	<u>Formation</u>
San Juan 28-5 Unit #86 Well W/2 Sec. 23, T-28-N, R-5-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 feet and an intermediate string will be run through the Pictured Cliffs Formation to a depth of approximately 3,700 feet, 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 gas. Due care will be taken to protect all horizons.


In addition to the above wells, 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 later 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, 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.

Yours very truly,



T. W. Bittick
Manager
Land Department

TWB:CTR:ec
SJ 28-5, 3.0

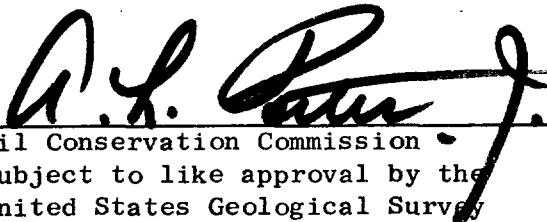
cc: Commissioner of Public Lands (Information only)
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

APPROVED: _____

Regional Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by the
Oil Conservation Commission

DATE: _____

APPROVED: _____


Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

DATE: 1-15-71

The foregoing approvals are for the 1971 Drilling Program for the San Juan 28-5 Unit,
#14-08-001-949, Rio Arriba County, New Mexico.

SAN JUAN 28-5 UNIT
Working Interest Owners

Mr. J. R. Abercrombie

Dr. W. E. Alsup

American Petrofina Company of Texas

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

General American Oil Co. of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mr. Forrest B. Miller & Mabelle Miller

N.B.S. Corporation

Pan American Petroleum Corp. (3)

Phillips Petroleum Company

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Texas Commerce Bank N. A., Ancillary
Guardian of the Estate of John L.
Abercrombie

Mr. Robert P. Tinnin

Ruth M. Vaughan

Mrs. Evelyn Ellen Wallace &
Mr. James A. Brown, Trustees under the
Last Will and Testament of A. W. Brown

El Paso Natural Gas Company

El Paso, Texas 79999

February 24, 1970

70 FEB 26 AM 8 09

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: 1970 DRILLING PROGRAMS
San Juan and Rio Arriba
Counties, New Mexico

Gentlemen:

The 1970 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>
Cox Canyon Sec. No. 946	2-19-70	1-15-70	1-21-70
Merfanito Sec. No. 943	2-19-70	1-15-70	1-21-70
San Juan 28-5 #14-08-001-949	2-17-70	None Required	1-21-70

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

Yours very truly,

Charles Higgins

Charles Higgins
Supervising Landman
Land Department

1:CR:
Cox Canyon 3.0
Merfanito 3.0
San Juan 28-5, 3.0



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

MAIN OFFICE 010

'70 FEB 19 AM 8 10

February 17, 1970

558

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1970 plan of development for the San Juan 28-5 unit area, Rio Arriba County, New Mexico, proposing the drilling of no 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. SCD) BILLY J. SHOGER

BILLY J. SHOGER
Acting 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)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 21, 1970

553

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

Attention: Mr. T. W. Bittick

**Re: 1970 Drilling Program
San Juan 28-5 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 for the San Juan 28-5 Unit, Rio Arriba, County, New Mexico, subject to like approval by the United States Geological Survey.

One approved copy of the program is returned herewith.

Very truly yours,

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

**ALP/JEK/og
Enclosure**

**cc: United States Geological Survey
Roswell, New Mexico**

MAIN OFFICE 0000

51 8 AM 20 JAN 1970

January 19, 1970

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

Re: San Juan 28-5 Unit
Rio Arriba County,
New Mexico
1970 DRILLING PROGRAM

ATTENTION: Mr. T. W. Bittick

Gentlemen:

This will acknowledge receipt of the 1970 Drilling Program for the San Juan 28-5 Unit, Rio Arriba County, New Mexico. This unit contains no State of New Mexico lands, however, we have this date filed it for record purposes only.

Very truly yours,

Ted Bilberry, Director
Oil and Gas Department

TB/ML/s

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

El Paso Natural Gas Company

El Paso, Texas 79999

January 14, 1970

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

Re: San Juan 28-5 Unit #14-08-001-949
Rio Arriba County, New Mexico
1970 DRILLING PROGRAM

Gentlemen:

By letter dated February 20, 1969, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned Unit for the calendar year 1969. Said Program provided for the drilling of five (5) Dakota wells by the Unit Operator during the year. These wells were drilled and four (4) were completed on acreage lying within the existing limits of the Dakota Participating Area. The fifth (#83 Well) occasioned the Twelfth Expansion of the Dakota Participating Area, and this Expansion has been approved by the regulatory bodies.

With the completion of the above-described wells, the total number of wells in the San Juan 28-5 Unit is as follows:

Mesaverde	45
Dual, Mesaverde-Dakota	6
Mesaverde, Noncommercial	1
Dakota	<u>30</u>
	82

Pursuant to Section 10 of the San Juan 28-5 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year of 1970 providing for the drilling of no wells during the year.

All of the 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 all current Unit obligations have been satisfied.

Regional Oil & Gas Supervisor
Oil Conservation Commission
Page 2

January 14, 1970

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 later deemed necessary or desirable 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,



T. W. Bittick
Manager
Land Department

TWB:CTR:sf
San Juan 28-5, 3.0

cc: Commissioner of Public Lands (Information only)
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87501

APPROVED: _____
Regional Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by the Oil
Conservation Commission of the State of
New Mexico.

DATE: _____

APPROVED: _____
Oil Conservation Commission
Subject to like approval by the United
States Geological Survey.

DATE: April 1, 1970

The foregoing approvals are for the 1970 Drilling Program for the San Juan 28-5 Unit, #14-08-001-949, Rio Arriba County, New Mexico.

SAN JUAN 28-5 UNIT
Working Interest Owners

Mr. John L. Abercrombie

Mr. J. R. Abercrombie

Dr. W. E. Alsup

American Petrofina Company of Texas

Mrs. Lela L. Barkley

Mr. Tom Bolack and Alice Bolack

Mrs. Evelyn G. Brown

Mr. James A. Brown

General American Oil Co. of Texas

Mr. Thomas H. Harrington

Lt. Col. Langdon Dewey Harrison,
Trustee for Omega E. Quinn

Catherine M. Harvey

Mr. Ralph H. McCullough

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. T. H. McElvain, Jr.

Mr. Forrest B. Miller & Mabelle Miller

N.B.S. Corporation

Pan American Petroleum Corporation (3)

Phillips Petroleum Company

Mr. H. O. Pool

Mr. Joe Quinn

Mr. M. A. Romero

Mr. Robert P. Tinnin

Ruth M. Vaughn

Mrs. Evelyn Ellen Wallace &
Mr. James A. Brown, Trustees
under the Last Will and Testament
of A. W. Brown