

El Paso Natural Gas Company

El Paso, Texas 79978

December 14, 1973

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051,
NOTICE OF COMPLETION OF ADDITIONAL
WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Dakota Formation has been completed upon acreage committed to the Unit. This well is as follows:

The San Juan 28-6 Unit #181 well, located 1700' from the North line and 1180' from the East line of Section 14, Township 27 North, Range 6 West, N.M.P.M., was spudded on August 8, 1973 and completed on October 22, 1973, at a total depth of 7707'. The Dakota Formation in the intervals of 7450', 7477', 7524', 7556', 7566', 7594', 7628', 7658' was treated with a sand-water fracturing process on October 20, 1973. The well was shut-in on October 22, 1973, and after being shut-in for eight (8) days the Dakota Formation was tested on October 30, 1973, and after a three-hour blow-down period the well gauged 4800 MCF/D through a 3/4"

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

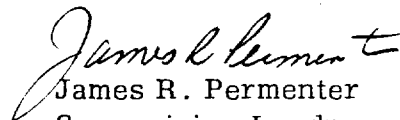
December 14, 1973

choke and 5060 MCF/D by the calculated absolute open-flow method, with an SIPC of 2604 psia and an SIPT of 2556 psia. The spacing unit for this well is described as the N/2 of Section 14, Township 27 North, Range 6 West, containing 320.00 acres.

This drilling block was included in the San Juan 28-6 Unit Twenty-fourth Expanded Participating Area for the Dakota Formation, effective July 1, 1972. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,



James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:AA:sv
S.J. 28-6 Unit, 4.3

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

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee Under the Will
of Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

Mesa Petroleum Company (2)

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

Northwest Pipeline Corporation

PWG Partnership

Phillips Petroleum Company

Mr. H. K. Riddle

Skelly Oil Company

Tenneco Oil Company

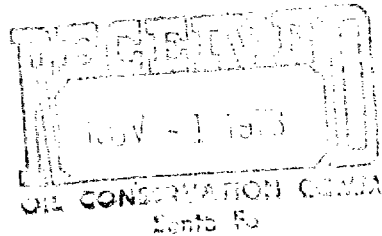
The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79978

October 30, 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 28-6 Unit #14-08-001-1051
NOTICE OF COMPLETION OF ADDITIONAL
WELLS, Dakota Formation

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 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 paying quantities from the Dakota Formation have been completed upon acreage committed to the Unit. These wells are as follows:

The San Juan 28-6 Unit #180 well, located 1180' from the North line and 1840' from the East line of Section 2, Township 27 North, Range 6 West, N.M.P.M., was spudded on May 8, 1973, and completed on June 6, 1973, at a total depth of 7580'. The Dakota Formation in the intervals of 7314', 7322', 7330', 7355', 7360', 7424', 7428', 7433', 7465', 7470', 7485', 7490', 7510', 7518' and 7526', was treated with a sand-water fracturing process on June 4, 1973. The well was shut-in on June 6, 1973, and after being shut-in for twenty-two (22) days the Dakota Formation was tested on June 28, 1973, and after a three-hour blow-down period the well gauged 3858 MCF/D through a 3/4" choke and 3996 MCF/D by the calculated absolute open-flow method, with an SIPC of 2706 psia and an SIPT of 2400 psia.

October 30, 1973

The spacing unit for this well is described as the N/2 of Section 2, Township 27 North, Range 6 West, containing 320.42 acres.

This spacing unit was included in the San Juan 28-6 Unit Seventh Expanded Participating Area of the Dakota Formation, effective August 1, 1964. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

The San Juan 28-6 Unit #183 well, located 1840' from the North line and 1565' from the East line of Section 13, Township 27 North, Range 6 West, N.M.P.M., was spudded on May 28, 1973, and completed on June 11, 1973, at a total depth of 7612'. The Dakota Formation in the intervals of 7375', 7380', 7385', 7481', 7486', 7491', 7522', 7528', 7543', 7548', 7565', 7570', 7584' and 7588', was treated with a sand-water fracturing process on June 10, 1973. The well was shut-in on June 12, 1973, and after being shut-in for twenty-one (21) days the Dakota Formation was tested on July 2, 1973, and after a three-hour blow-down period the well gauged 6385 MCF/D through a 3/4" choke and 6763 MCF/D by the calculated absolute open-flow method, with an SIPC of 2772 psia and an SIPT of 2576 psia. The spacing unit for this well is described as the E/2 of Section 13, Township 27 North, Range 6 West, containing 320.00 acres.

This spacing unit was included in the San Juan 28-6 Unit Twenty-third Expanded Participating Area of the Dakota Formation, effective April 1, 1972. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,



James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:AA:sv
S.J. 28-6 Unit, 4.3.1

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

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Tenneco Oil Company

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79974

September 19, 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 28-6 Unit #14-08-001-1051,
NOTICE OF COMPLETION OF ADDITIONAL
WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11 (b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Dakota Formation has been completed upon acreage committed to the Unit. This well is as follows:

The San Juan 28-6 Unit #179 well, located 1180' from the South line and 1500' from the West line of Section 13, Township 27 North, Range 6 West, N.M.P.M., was spudded on July 1, 1973, and completed on August 29, 1973, at a total depth of 7605'. The Dakota Formation in the intervals of 7354', 7428', 7464', 7466', 7500', 7526', 7528', 7564', was treated with a sand-water fracturing process on August 28, 1973. The well was shut-in on August 30, 1973, and after being shut-in for eight (8) days the Dakota Formation was tested on September 7, 1973, and after a three-hour blow-down period the well gauged 5745 MCF/D through a 3/4" choke and 6150 MCF/D by the calculated absolute open-flow method, with an SIPC of 2639 psia and an SIPT of 1637 psia. The spacing unit for this well is described as the W/2 of Section 13, Township 27 North, Range 6 West, containing 320.00 acres.

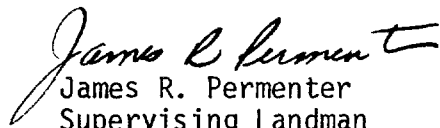
Regional Oil & Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
Page Two

September 19, 1973

This spacing unit was included in the San Juan 28-6 Unit Twenty-fourth Expanded Participating Area of the Dakota Formation, effective July 1, 1972. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,



James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:AA:sv
S.J. 28-6 Unit 4.3

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

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee Under the Will
of Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Mesa Petroleum Company (2)

Phillips Petroleum Company

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Tenneco Oil Company

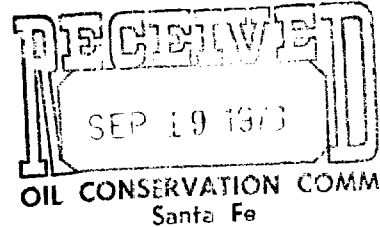
The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79978

September 17, 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 28-6 Unit #14-08-001-1051
NOTICE OF COMPLETION OF ADDITIONAL
WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Dakota Formation has been completed upon acreage committed to the Unit. This well is as follows:

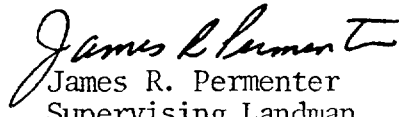
The San Juan 28-6 Unit #182 well, located 990' from the South line and 1180' from the West line of Section 12, Township 27 North, Range 6 West, N.M.P.M., was spudded on June 8, 1973, and completed on August 20, 1973, at a total depth of 7676'. The Dakota Formation in the intervals between 7434', 7442', 7532', 7540', 7570', 7598', 7605', 7628', 7630', was treated with a sand-water fracturing process on August 19, 1973. The well was shut-in on August 21, 1973, and after being shut-in for seven (7) days the Dakota Formation was tested on August 28, 1973, and after a three-hour blow-down period the well gauged 4812 MCF/D through a 3/4" choke and 5098 MCF/D by the calculated absolute open-flow method, with an SIPC of 2704 psia and an SIPT of 2338 psia. The spacing unit for this well is described as the W/2 of Sec. 12, T-27-N, R-6-W, containing 320.00 acres.

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

This spacing unit was included in the San Juan 28-6 Unit Second Expanded Participating Area of the Dakota Formation, effective January 6, 1962. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,


James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:AEA:sn
SJ 28-6 Unit 4.3

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

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)
Denver Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Tenneco Oil Company

The Wiser Oil Company

El Paso Natural Gas Company

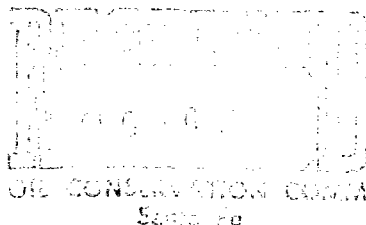
El Paso, Texas 79978

August 3, 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 28-6 Unit
No. 14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF
ADDITIONAL WELLS

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, No. 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below, that two additional wells capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation have been completed upon acreage committed to the Unit. These wells are as follows:

The San Juan 28-6 Unit #172 well, located 1750' from the South line and 890' from the East line of Section 35, Township 28 North, Range 6 West, N.M.P.M., was spudded on April 26, 1973, and completed on June 15, 1973, at a total depth of 3226'. The Pictured Cliffs Formation in the intervals between 3124'-3140', 3150'-3162', was treated with a sand-water fracturing process on June 15, 1973. The well was shut-in on June 18, 1973, and after being shut-in for fourteen (14) days the Pictured Cliffs Formation was tested on July 2, 1973, and after a three-hour blow-down period the well gauged 1822 MCF/D through a 3/4" choke and 1889 MCF/D by the calculated

August 3, 1973

absolute open-flow method, with an SIPC of 945 psia. The committed Drilling Block upon which this well is located is described as the E/2 of Section 35, T-28-N, R-6-W, N.M.P.M., Rio Arriba County, New Mexico, containing 322.04 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Pictured Cliffs formation was made on July 2, 1973.

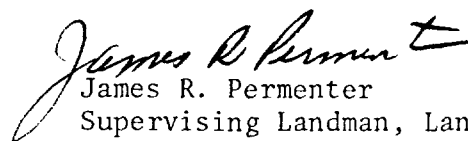
The above described Drilling Block was included in the San Juan 28-6 Unit 12th Expanded Participating Area for the Pictured Cliffs Formation, effective October 1, 1960, as a result of the completion of the San Juan #97 well.

The San Juan 28-6 Unit #178 well, located 1600' from the South line and 900' from the East line of Section 1, Township 27 North, Range 6 West, N.M.P.M., was spudded on May 1, 1973, and completed on June 15, 1973, at a total depth of 3357'. The Pictured Cliffs Formation in the intervals between 3251'-3275' was treated with a sand-water fracturing process on June 15, 1973. The well was shut-in on June 18, 1973, and after being shut-in for ten (10) days the Pictured Cliffs Formation was tested on June 28, 1973, and after a three-hour blow-down period the well gauged 2485 MCF/D through a 3/4" choke and 2629 MCF/D by the calculated absolute open-flow method, with an SIPC of 1043 psia. The committed drilling block upon which this well is located is described as the E/2 of Section 1, T-27-N, R-6-W, N.M.P.M., Rio Arriba County, New Mexico, containing 320.10 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Pictured Cliffs formation was made on June 28, 1973.

The above-described Drilling Block was included in the San Juan 28-6 Unit 6th Expanded Participating Area for the Pictured Cliffs Formation, effective August 1, 1958, as a result of the completion of the San Juan #78 well.

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:AEA:sn
Attachment
SJ 28-6, 4.1.1

1. $\mathcal{H} = \{f_1, \dots, f_n\}$

2. $\mathcal{H} = \{f_1, \dots, f_n\}$ (if $\mathcal{H} \neq \emptyset$)

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22. $\mathcal{H} = \{f_1, \dots, f_n\}$ (if $\mathcal{H} \neq \emptyset$)

23. $\mathcal{H} = \{f_1, \dots, f_n\}$ (if $\mathcal{H} \neq \emptyset$)

24. $\mathcal{H} = \{f_1, \dots, f_n\}$ (if $\mathcal{H} \neq \emptyset$)

25. $\mathcal{H} = \{f_1, \dots, f_n\}$ (if $\mathcal{H} \neq \emptyset$)

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3), Denver

Amoco Production Company, Farmington

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Tenneco Oil Company

The Wiser Oil Company

El Paso Natural Gas Company

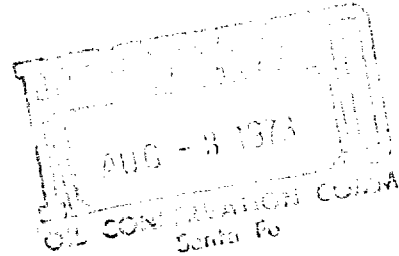
El Paso, Texas 79978

August 2, 1973

Regional Oil & Gas Supervisor
United States Geological Survey
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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 28-6 Unit, No. 14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELLS

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, No. 14-08-001-1051, approved August 31, 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 paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the Unit. These wells are as follows:

The San Juan 28-6 Unit #173 well, located 800' from the North line and 1750' from the West line of Section 35, Township 28 North, Range 6 West, N.M.P.M., was spudded on April 14, 1973, and completed on June 11, 1973, at a total depth of 3538'. The Dakota Formation in the intervals between 3430'-3450', 3460'-3470', was treated with a sand-water fracturing process on June 11, 1973. The well was shut-in on June 15, 1973, and after being shut-in for seven (7) days the Pictured Cliffs Formation was tested on June 22, 1973, and after a three-hour blow-down period the well gauged 1752 MCF/D through a 3/4" choke and 1802 MCF/D by the calculated absolute open-flow method, with an SIPC of 1036 psia. The Committed Drilling Block upon which this well is located is described as the W/2 of Section 35, T-28-N,

August 2, 1973

R-6-W, N.M.P.M., Rio Arriba County, New Mexico, containing 323.48 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation was made on July 13, 1973.

The foregoing drilling block was included in the San Juan 28-6 Unit Fifteenth Expanded Participating area of the Pictured Cliffs Formation, effective July 1, 1972, as an intervening drilling block.

The San Juan 28-6 Unit #174 well, located 1650' from the North line and 1090' from the West line of Section 36, Township 28 North, Range 6 West, N.M.P.M., was spudded on April 20, 1973, and completed on June 11, 1973, at a total depth of 3525'. The Dakota Formation in the intervals between 3370'-3390', 3400'-3420', was treated with a sand-water fracturing process on June 11, 1973. The well was shut-in in June 15, 1973, and after being shut-in for seven (7) days the Pictured Cliffs Formation was tested on June 22, 1973, and after a three-hour blow-down period the well gauged 1848 MCF/D through a 3/4" choke and 1905 MCF/D by the calculated absolute open-flow method, with an SIPC of 1051 psia. The committed Drilling Block upon which this well is located is described as the W/2 of Sec. 36, T-28-N, R-6-W, Rio Arriba Co., New Mexico, containing 321.21 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation was made on July 13, 1973.

The foregoing drilling block was included in the San Juan 28-6 Unit Tenth Expanded Participating Area for the Pictured Cliffs Formation, effective January 1, 1960, as a result of the completion of the San Juan Unit #93 well.

Copies of this letter are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,



James R. Permenter
Supervising Landman, Land Department
Energy Resource Development

JRP:sn
Attachment
S.J. 28-6, 4.1.1

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

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Tenneco Oil Company

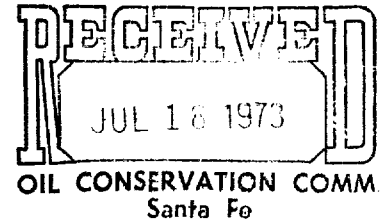
The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79978

July 16, 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 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPROVAL OF THE TWENTY SIXTH,
TWENTY SEVENTH AND TWENTY EIGHTH
REVISIONS OF THE PARTICIPATING
AREA FOR THE DAKOTA FORMATION

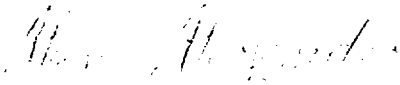
Gentlemen:

This is to advise that the captioned Expansions for the San Juan 28-6 Unit were approved by the Regulatory Bodies on the following dates:

United States Geological Survey -	July 13, 1973
Commissioner of Public Lands -	May 23, 1973
Oil Conservation Commission -	June 5, 1973

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Yours very truly,


Alan Alexander
Landman, Land Department
Energy Resource Development

AA:sv
S.J. 28-6 Unit 4.3

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



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roosevelt, New Mexico 38201

343

RECEIVED
JUL 16 1973
OIL CONSERVATION COMM.
Santa Fe

July 13, 1973

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

Gentlemen:

Your application of May 16, 1973, requesting approval of the twenty-sixth, twenty-seventh and twenty-eighth revisions of the Dakota participating area for the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-1051, was approved July 13, 1973, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of December 1, 1972, January 1, 1973, and February 1, 1973, respectively.

The twenty-sixth revision adds 325.04 acres described on the first page of your application, which enlarges the Dakota participating area to 24,482.77 acres and is based on the completion of unit well No. 130 located in the NE 1/4 sec. 32, T. 28 N., R. 6 W., N.M.P.M. Such well was completed December 11, 1972, for a calculated open flow potential of 3,146 MCFGPD from the Dakota interval 7,492 to 7,702 feet.

The twenty-seventh revision adds 652.79 acres described on the second page of your application, which enlarges the Dakota participating area to 25,135.56 acres. This revision is based on the completion of two wells: 1) Well No. 185 located in lot 1, sec. 33, T. 28 N., R. 6 W., N.M.P.M., completed January 22, 1973, for a calculated open flow potential of 5,101 MCFGPD from the Dakota interval 7,687 to 7,901 feet, and 2) Well No. 133 located in lot 2, sec. 4, T. 27 N., R. 6 W., N.M.P.M., completed January 31, 1973, for a calculated open flow potential of 4,218 MCFGPD from the Dakota interval 7,420 to 7,650 feet.

The twenty-eighth revision adds 1,875.88 acres described on the third page of your application, which enlarges the Dakota participating area to 27,011.44 acres. Your Schedule XXIX incorrectly shows a total of 27,011.45 acres which we have corrected by subtracting 0.01 acre on all copies of the application and this should also be noted on your records. This final revision is based on the completion of the following four wells:

<u>Well No.</u>	<u>Location</u>	<u>Dakota Interval</u>	<u>Completion Date</u>	<u>CAOF MCF</u>
	<u>T. 28 N., R. 6 W.</u>			
132	Lot 3, sec. 32	7,445-7,628	2-1-73	5,379
	<u>T. 27 N., R. 6 W.</u>			
134	SW $\frac{1}{4}$ sec. 5	7,403-7,608	2-2-73	5,214
135	SW $\frac{1}{4}$ sec. 6	7,076-7,282	2-6-73	4,306
186	NW $\frac{1}{4}$ sec. 6	7,454-7,640	2-5-73	6,222

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,

(ORIGINAL)

CARL C. TRAYWICK
Acting Area Oil & Gas Supervisor

cc:

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

JAGillham:ds

El Paso Natural Gas Company

El Paso, Texas 79978

June 13, 1973

54

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 28-6 Unit
26th, 27th and 28th Expansions
of the Dakota Formation

Gentlemen:

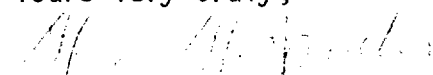
Please refer to my letter of May 16, 1973 whereby El Paso Natural Gas Company submitted for your approval the 26th, 27th and 28th Expansions of the referenced unit.

We have found errors in Schedule XXIX and the Recapitulation sheet for the 28th Expansion due to the omission from said schedule of Tract #26. We have prepared an entirely new Schedule XXIX and are forwarding it herewith with the request that you destroy the Schedule XXIX previously sent to you.

By copies of this letter we are forwarding the San Juan 28-6 Unit working interest owners a corrected Schedule XXIX and Recapitulation sheet.

We wish to apologize for any inconvenience that we may have caused by the issuance of the erroneous Schedule.

Yours very truly,



Alan Alexander
Landman
Land Department
Energy Resource Development

AA:lj
Enclosure
SJ 28-6 Unit 4.3

cc: Mrs. Pepita O. Jeffus

JCC

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

June 5, 1973

543

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

Attention: Mr. James R. Parmenter

Re: Twenty-Sixth, Twenty-Seventh,
Twenty-Eighth Expansions of
the Dakota Participating Area,
San Juan 28-6 Unit, Rio Arriba
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Twenty-Sixth, Twenty-Seventh, and Twenty-Eighth Expanded Participating Areas for the Dakota Formation for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/eg

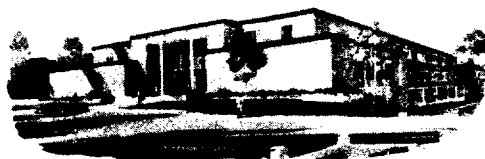
cc: Commissioner of Public Lands - Santa Fe
United States Geological Survey - Roswell

State of New Mexico

TELEPHONE
505-827-2748

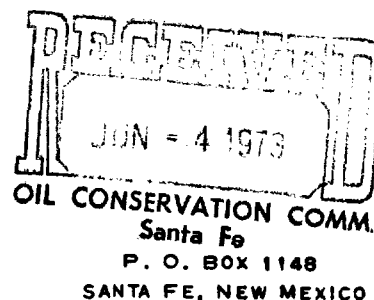


ALEX J. ARMIJO
COMMISSIONER



Commissioner of Public Lands

May 23, 1973



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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
TWENTY-SIXTH, TWENTY-SEVENTH, TWENTY-
EIGHTH EXPANDED PARTICIPATING AREAS OF
THE DAKOTA FORMATION
Effective December 1, 1972, January 1
1973, February 1, 1973

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved your Twenty-Sixth, Twenty-Seventh, Twenty-Eighth Expanded Participating Areas of the Dakota Formation for the San Juan 28-6 Unit, Rio Arriba County, New Mexico. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

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

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

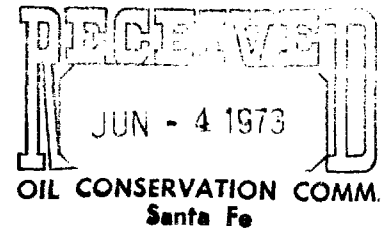
AJA/RDG/s
encl. none
cc:

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

El Paso Natural Gas Company

El Paso, Texas 79901

May 16, 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 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico,
APPLICATION FOR APPROVAL OF THE
TWENTY-SIXTH, TWENTY-SEVENTH, TWENTY-
EIGHTH EXPANDED PARTICIPATING AREAS OF
THE DAKOTA FORMATION
Effective December 1, 1972, January 1, 1973,
February 1, 1973

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Twenty-Sixth, Twenty-Seventh, Twenty-Eighth Expanded Participating Areas for the Dakota Formation, to wit:

TWENTY-SIXTH EXPANDED PARTICIPATING AREA - Effective December 1, 1972

<u>Description of Lands</u>	<u>Acres</u>
Township 28 North, Range 6 West, N.M.P.M. Section 32: Lots 1, 2, N/2 SE/4, NE/4 (E/2)	325.04

This proposed Twenty-Sixth 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 28-6 Unit #130 Well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

The San Juan 28-6 Unit #130 well, located 1110' from the north line and 1000' from the east line of Section 32, Township 28 North, Range 6 West, N.M.P.M., was spudded on November 10, 1972, and completed on December 2, 1972, at a total depth of 7730'. The Dakota Formation in the intervals between 7492'-7510', 7572'-7582', 7596'-7614', 7632'-7646', 7658'-7670', 7698'-7702', was treated with a sand-water fracturing process on December 1, 1972. The well was shut-in on December 2, 1972, and after being shut-in for nine (9) days the Dakota Formation was tested on December 11, 1972, and after a three-hour blow-down period the well gauged 3054 MCF/D through a 3/4" choke and 3146 MCF/D by the calculated absolute open-flow method, with an SIPC of 2575 psia and an SIPT of 2557 psia.

TWENTY-SEVENTH EXPANDED PARTICIPATING AREA - Effective January 1, 1973

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 6 West, N.M.P.M.</u>	
Sec. 33: Lots 1, 2, 3, 4, N/2 S/2 (S/2)	
<u>Township 27 North, Range 6 West, N.M.P.M.</u>	
Sec. 4: Lots 1, 2, 3, 4, S/2 N/2 (N/2)	652.79

This proposed Twenty-Seventh 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 28-6 Unit #133 and #185 wells are capable of producing unitized substances in paying quantities from the Dakota Formation. These wells are as follows:

The San Juan 28-6 Unit #133 well, located 981' from the north line and 1740' from the east line of Section 4, Township 27 North, Range 6 West, N.M.P.M., was spudded on December 26, 1972 and completed on January 21, 1973, at a total depth of 7677'. The Dakota Formation in the intervals between 7420'-7436', 7516'-7536', 7550'-7566', 7634'-7650', was treated with a sand-water fracturing

process on January 21, 1973. The well was shut-in on January 22, 1973, and after being shut-in for nine (9) days the Dakota Formation was tested on January 31, 1973, and after a three-hour blow-down period the well gauged 3691 MCF/D through a 3/4" choke and 4218 MCF/D by the calculated absolute open-flow method, with an SIPC of 1317 psia and an SIPT of 1128 psia. This well was again shut-in on February 8, 1973, for twelve (12) days and was re-tested on February 20, 1973, and after a three hour blow-down period the well gauged 4015 MCF/D through a 3/4" choke and 4168 MCF/D by the calculated absolute open-flow method, with an SIPC of 2706 psia and an SIPT of 2452 psia.

TWENTY-EIGHTH EXPANDED PARTICIPATING AREA - Effective February 1, 1973

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 6 West, N.M.P.M.</u>	
Sec. 31 Lots 1-7, NE/4 SW/4, N/2 SE/4, E/2 NW/4, NE/4 (ALL)	
Sec. 32 Lots 3, 4, N/2 SW/4, NW/4 (W/2)	
<u>Township 27 North, Range 6 West, N.M.P.M.</u>	
Sec. 5 Lots 3, 4, S/2 NW/4, SW/4 (W/2)	
Sec. 6 Lots 1-7, SE/4 NW/4, S/2 NE/4, E/2 SW/4, SE/4 (ALL)	1875.88

This proposed Twenty-Eighth 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 28-6 Unit #132, #134, #135 and #186 wells are capable of producing unitized substances in paying quantities from the Dakota Formation. These wells are as follows:

The San Juan 28-6 Unit 132 well, located 800' from the south line and 1840' from the west line of Section 32, Township 28 North, Range 6 West, N.M.P.M., was spudded on December 1, 1972, and completed on January 15, 1973, at a total depth of 7655'. The Dakota Formation in the intervals between 7445'-7450', 7460'-7470', 7528'-7533', 7556'-7571', 7613'-7628', was treated with a sand-water fracturing process on January 15, 1973. The well was shut-in on January 16, 1973, and after being shut-in for sixteen (16) days the Dakota Formation was tested on February 1, 1973, and after a three-hour blow-down period the well gauged 5139 MCF/D through a 3/4" choke and 5379 MCF/D by the calculated absolute open flow method, with SIPC of 2616 psia and an SIPT OF 2082 psia.

The San Juan 28-6 Unit 134 well, located 1170' from the south

line and 1750' from the West line of Section 5, Township 27 North, Range 6 West, N.M.P.M., was spudded on December 8, 1972, and completed on January 19, 1973, at a total depth of 7692'. The Dakota Formation in the intervals between 7403'-7419', 7496'-7498', 7516'-7532', 7552'-7564', 7572'-7580', 7600'-7608', was treated with a sand-water fracturing process on January 19, 1973. The well was shut-in on January 20, 1973, and after being shut-in for Thirteen (13) days the Dakota Formation was tested on February 2, 1973, and after a three-hour blow-down period the well gauged 4805 MCF/D through a 3/4" choke and 5214 MCF/D by the calculated absolute open-flow method, with an SIPC of 2063 psia and an SIPT of 1569 psia.

The San Juan 28-6 Unit #135 well, located 1180' from the South line and 1830' from the West line of Section 6, Township 27 North, Range 6 West, N.M.P.M., was spudded on November 17, 1972, and completed on November 29, 1972, at a total depth of 7312'. The Dakota Formation in the intervals between 7076'-7086', 7096'-7106', 7164'-7174', 7192'-7212', 7250'-7260', 7272'-7282', was treated with a sand-water fracturing process on November 27, 1972. The well was shut-in on November 30, 1972, and after being shut-in for Thirty-Seven (37) days the Dakota Formation was tested on February 6, 1973, and after a three-hour blow-down period the well gauged 4185 MCF/D through a 3/4" choke and 4306 MCF/D by the calculated absolute open-flow method, with an SIPC of 2655 psia and an SIPT of 2090 psia.

The San Juan 28-6 Unit #186 well, located 1525' from the north line and 970' from the east line of Section 6, Township 27 North, Range 6 West, N.M.P.M., was spudded on December 12, 1972, and completed on January 18, 1973, at a total depth of 7676'. The Dakota Formation in the intervals between 7454'-7462', 7472'-7482', 7546'-7556', 7574'-7590', 7618'-7624', 7634'-7640', was treated with a sand-water fracturing process on January 17, 1973. The well was shut-in on January 18, 1973, and after being shut-in for eighteen (18) days the Dakota Formation was tested on February 5, 1973, and after a three-hour blow-down period the well gauged 5194 MCF/D through a 3/4" choke and 6222 MCF/D by the calculated absolute open-flow method with an SIPC of 2641 psia and an SIPT of 1187.

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

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Twenty-Sixth, Twenty-Seventh and Twenty-Eighth Expanded Participating Areas of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "B"

Geological Report on the Twenty-Sixth, Twenty-Seventh and Twenty-Eighth Expanded Participating Areas of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-6 Subsurface Structure Contour Map

Figure No. 2: San Juan 28-6 Isopachous Map

EXHIBIT "D"

Schedule of Dakota Gas Production

Attached hereto are Schedules XXVII, XXVIII, XXIX that show the proposed Twenty-Sixth, Twenty-Seventh and Twenty-Eighth Expanded Participating Areas for the Dakota Formation in the San Juan 28-6 Unit Area. These Schedules describe the Expanded Participating Areas, show percentage of unitized substances allocated to each unitized tract and the percentage of ownership in each tract.

If these Twenty-Sixth, Twenty-Seventh and Twenty-Eighth Expanded Participating Areas of the Dakota Formation meet with your approval, please indicate such approval in the space provided and return an approved copy thereof for our files.

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

Yours very truly,



Dick Isaacks
Senior Landman
Land Department
Energy Resource Development

DI:AA:mm

Enclosures

S.J. 28-6, 4.3

cc: Mrs. Pepita O. Jeffus

Executive Director, New Mexico
Oil & Gas Accounting Commission

P. O. Box 2308, Santa Fe, New Mexico 87501

APPROVED:

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

DATE: _____

APPROVED:

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

DATE: *May 23, 1973*

APPROVED:

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

DATE: *June 5, 1973*

The foregoing approvals are for the Twenty-Sixth, Twenty-Seventh and Twenty-Eighth Expanded Participating Areas of the Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba County, New Mexico.



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roosevelt, New Mexico 88201

In Reply Refer To:
JAGillham/Engr.

March 23, 1973

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

Gentlemen:

Two approved copies of your 1973 plan of development for the San Juan 28-6 unit area, Rio Arriba County, New Mexico, proposing the drilling of four Pictured Cliffs wells and seven Dakota wells, are enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

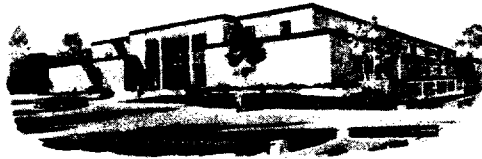
cc:
Reg. Mgr., Denver (ltr. only)
Washington (w/cy plan)
Durango (w/cy plan)
NMOC, Santa Fe (ltr. only) ✓
Com. Pub. Lands, Santa Fe (ltr. only)

JAGillham:lh

543

543
State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

March 22, 1973

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
1973 DRILLING PROGRAM

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your Drilling Program for the year 1973, which provides for the drilling of seven Dakota Wells and four Pictured Cliffs wells. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Enclosed is one approved copy of the plan surplus to our need.

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s

encls.

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Jim

March 19, 1973

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

Attention: Mr. D. N. Canfield

Re: 1973 Drilling Program
San Juan 28-6 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 eleven wells for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

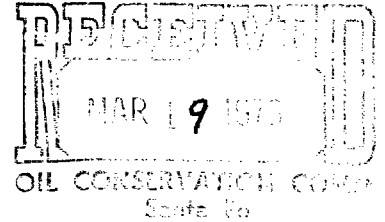
ALP/JEK/og

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

El Paso Natural Gas Company

El Paso, Texas 79978

March 15, 1973



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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1973 DRILLING PROGRAM

Gentlemen:

By letter dated March 6, 1972, El Paso Natural Gas Company, as Unit Operator, filed a drilling program for the captioned Unit for the calendar year 1972 providing for the drilling of eight Dakota wells, one Mesaverde well and two Pictured Cliffs wells. By letter dated November 28, 1972, El Paso Natural Gas Company, as Unit Operator, filed a Supplemental 1972 Drilling Program providing for the drilling of seven additional Dakota wells. Each of these wells was timely drilled.

Dakota wells #164, #165, #166, #167, #168, #169 and #171 were drilled within the existing Dakota Participating Area and did not cause an expansion of the Dakota Participating Area. Well #170 caused the Twenty-fifth Dakota Expansion; Well #130 caused the Twenty-sixth Dakota Expansion; Wells #133 and #185 caused the Twenty-seventh Dakota Expansion; and Wells #132, #134, #135 and #186 caused the Twenty-eighth Dakota Expansion. Mesaverde Well #14-Y was drilled within the existing Mesaverde Participating Area and did not cause an expansion. Pictured Cliffs Wells #162 and #163 caused the Fifteenth Expansion of the Pictured Cliffs Participating Area.

With the completion of the above-mentioned wells, the total number of wells in the San Juan 28-6 Unit is as follows:

Pictured Cliffs	9
Dual, Pictured Cliffs-Mesaverde	15
Mesaverde, Commercial	72
Mesaverde, Non-Commercial	1
Dual, Mesaverde-Dakota	1
Dakota, Commercial	66
Dakota, Plugged and Abandoned	1
	<u>165</u>

El Paso Natural Gas Company, as Unit Operator, hereby submits a Drilling Program providing for the drilling of the following-described wells during the calendar year of 1973:

<u>Well No.</u>	<u>Drilling Block or Spacing Unit</u>	<u>Formation</u>
172	E/2 Sec. 35, T-28-N, R-6-W	Pictured Cliffs
173	W/2 Sec. 35, T-28-N, R-6-W	Pictured Cliffs
174	W/2 Sec. 36, T-28-N, R-6-W	Pictured Cliffs
178	E/2 Sec. 1, T-27-N, R-6-W	Pictured Cliffs
179	W/2 Sec. 13, T-27-N, R-6-W	Dakota
180	N/2 Sec. 2, T-27-N, R-6-W	Dakota
98-Y	N/2 Sec. 3, T-27-N, R-6-W	Dakota
181	N/2 Sec. 14, T-27-N, R-6-W	Dakota
182	W/2 Sec. 12, T-27-N, R-6-W	Dakota
183	E/2 Sec. 13, T-27-N, R-6-W	Dakota
184	All Sec. 7, N/2 NW/4 Sec. 18, T-27-N, R-6-W	Dakota

Pictured Cliffs Wells #172, #173, #174 and #178 will be drilled inside the existing Pictured Cliffs Participating Area. Dakota Wells #179, #180, #181, #182 and #183 will be drilled within the existing Dakota Participating Area. Dakota Well #98-Y will be drilled on a spacing unit outside of the existing Dakota Participating Area in order to extend the limits of the Participating Area. Dakota Well #184 will be drilled on a spacing unit in which 20.166779% of the acreage is within the existing Dakota Participating Area and in which 79.833221% of the acreage is outside of the existing Dakota Participating Area.

All of the working interest owners have been contacted, and this Drilling Program reflects the desires of the majority of these working interest owners.

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

arch 15, 1973

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,

A handwritten signature in cursive script, appearing to read "D. N. Canfield".

D. N. Canfield
Manager
Land Department
Energy Resource Development

DNC:DI:sv
Enclosures
S.J. 28-6, 3.0

APPROVED: _____

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


DATE: _____

APPROVED: _____

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

DATE: _____

APPROVED: _____


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

DATE: March 19, 1973

The foregoing approvals are for the 1973 Drilling Program for the San Juan 28-6 Unit, 14-08-001-1051, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

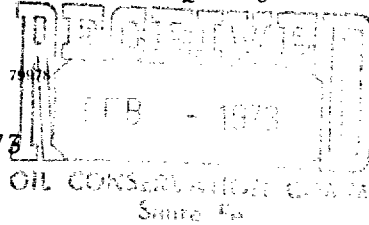
Tenneco Oil Company

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79901

February 2, 1973



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

565
543

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 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
TWENTY-FIFTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION,
Effective October 1, 1972

Gentlemen:

This is to advise that the captioned Expansion for the San Juan 28-6 Unit was approved by the Regulatory Agencies on the following dates:

United States Geological Survey	- January 30, 1973
Commissioner of Public Lands	- December 27, 1972
Oil Conservation Commission	- December 27, 1972

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Yours very truly,

Dick Isaacks
Senior Landman
Land Department
Energy Resource Development

DI:lj
SJ 28-6 4.3

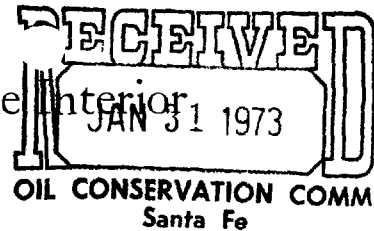
cc: Mrs. Pepita O. Jeffus
Executive Director, New Mexico Oil & Gas Accounting Commission



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



January 30, 1973

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

Gentlemen:

Your application of December 22, 1972, requesting approval of the twenty-fifth revision of the Dakota participating area for the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-1051, was approved on January 30, 1973, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of October 1, 1972.

The twenty-fifth revision adds 320.88 acres described as lots 1, 2, the SE $\frac{1}{4}$, and the SW $\frac{1}{4}$ sec. 5, T. 27 N., R. 6 W., N.M.F.M., which enlarges the Dakota participating area to 24,157.73 acres. Such revision is based upon the information contributed by the October 25, 1972, completion of unit well No. 170, located in the NE $\frac{1}{4}$ of sec. 5, T. 27 N., R. 6 W., from the Dakota interval 7,694 to 7,838 feet for a calculated open flow potential of 3,951 MCF of gas per day.

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 the State of New Mexico and all other interested parties with appropriate evidence of this approval.

Sincerely yours,

(C.C.T.)
CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Regional Mgr., Denver (w/cy appln)
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

543

January 3, 1973

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
SUPPLEMENTAL 1972 DRILLING PROGRAM

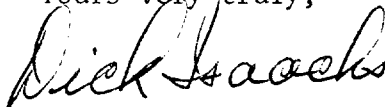
Gentlemen:

This is to advise that the captioned Supplemental Drilling Program was approved by the Regulatory Agencies on the following dates:

United States Geological Survey	-	December 4, 1972
Commissioner of Public Lands	-	December 18, 1972
Oil Conservation Commission	-	December 7, 1972

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Yours very truly,



Dick Isaacks
Senior Landman
Land Department
Energy Resource Development

DI:lj
SJ 28-6 3.0

Jim
543

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

December 27, 1972

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

Attention: Mr. James R. Permenter

Re: Twenty-Fifth Expanded Dakota
Participating Area, San Juan
28-6 Unit, Rio Arriba County,
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Twenty-Fifth Expanded Participating Area for the Dakota Formation for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

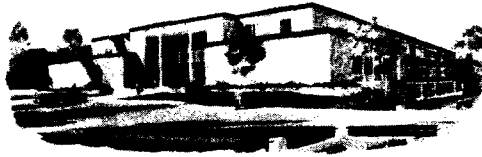
A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

State of New Mexico

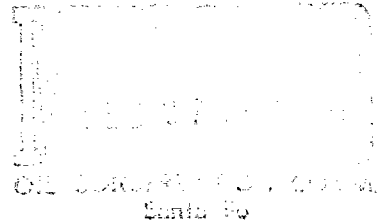
TELEPHONE
505-827-2748



Commissioner of Public Lands

December 27, 1972

ALEX J. ARMIJO
COMMISSIONER



P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
TWENTY-FIFTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION,
Effective October 1, 1972

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved your Twenty-Fifth Expanded Participating Area for the Dakota Formation, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

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

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
encl. none
cc:

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

El Paso Natural Gas Company

El Paso, Texas 79999

December 22, 1972

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
TWENTY-FIFTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION,
Effective October 1, 1972

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Twenty-Fifth Expanded Participating Area for the Dakota Formation, to wit:

TWENTY-FIFTH EXPANDED PARTICIPATING AREA - Effective October 1, 1972

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 27 North, Range 6 West, N.M.P.M.</u>	
Section 5: Lots 1, 2, S/2 NE/4, SE/4	320.88

December 22, 1972

This proposed Twenty-Fifth 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 28-6 Unit #170 well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

The San Juan 28-6 Unit #170 well, located 1650' from the North line and 1460' from the East line of Section 5, Township 27 North, Range 6 West, N.M.P.M., was spudded on September 29, 1972, and completed on October 16, 1972, at a total depth of 7911'. The Dakota Formation in the intervals between 7634'-7642', 7656'-7668', 7720'-7728', 7746'-7758', 7784'-7796', 7808'-7816', 7826'-7838' was treated with a sand-water fracturing process on October 16, 1972. The well was shut-in on October 17, 1972, and after being shut-in for eight (8) days the Dakota Formation was tested on October 25, 1972, and after a three-hour blow-down period the well gauged 3807 MCF/D through a 3/4" choke and 3951 MCF/D by the calculated absolute open-flow method, with an SIPT of 2546 psia and an SIPC of 2270 psia.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Twenty-Fifth Expanded Participating Area of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "B"

Geological Report on the Twenty-Fifth Expanded Participating Area of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-6 Subsurface Structure Contour Map
Figure No. 2: San Juan 28-6 Isopachous Map

EXHIBIT "D"

Schedule of Dakota Gas Production

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

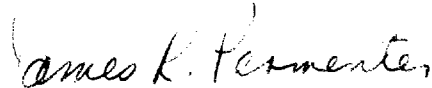
December 22, 1972

Attached hereto is Schedule XXVI that shows the proposed Twenty-Fifth Expanded Participating Area for the Dakota Formation in the San Juan 28-6 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 Twenty-Fifth Expanded Participating Area for the Dakota Formation meets with your approval, please indicate such approval in the space provided and return an approved copy thereof 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:DI:nja
Enclosures
S.J. 28-6 Unit 4.3

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

APPROVED: _____

DATE: _____

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

APPROVED: _____

DATE: 12-27-72

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

APPROVED: _____

DATE: Dec 27, 1972

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

The foregoing approvals are for the Twenty-Fifth Expanded Participating Area of the Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba County, New Mexico.

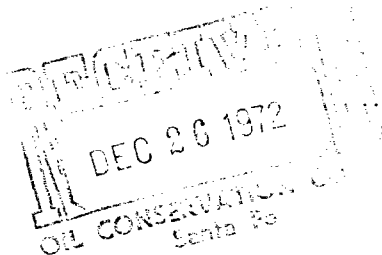
El Paso Natural Gas Company

El Paso, Texas 79999

December 22, 1972

543

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



Re: San Juan 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
TWENTY-FIFTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION,
Effective October 1, 1972

Gentlemen:

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

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

Yours very truly,

James R. Permenter

James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DI:nja
Enclosures
S.J. 28-6 Unit 4.3

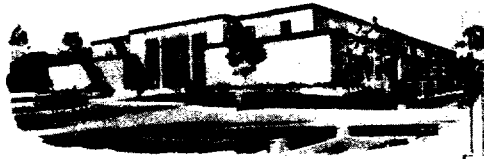
cc: Regional Oil & Gas Supervisor
United States Geological Survey
Roswell, New Mexico 88201

~~Oil Conservation Commission~~
State of New Mexico
Santa Fe, New Mexico 87501

State of New Mexico

543
TELEPHONE

505-827-2748



Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

December 18, 1972

P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
SUPPLEMENTAL 1972 DRILLING PROGRAM

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your Supplemental Drilling Program for 1972, which provides for the drilling of five Dakota Wells. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Enclosed is one approved copy of the Plan surplus to our need.

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
encls
cc:

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

El Paso Natural Gas Company

El Paso, Texas 79999

December 18, 1972

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 28-6 Unit #14-08-001-1051
NOTICE OF COMPLETION OF ADDITIONAL
WELL, Mesaverde Formation

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to the Unit. This well is as follows:

The San Juan 28-6 Unit #14-Y Well is located 1150' from the South line and 1850' from the West line of Section 17, Township 28 North, Range 6 West, N.M.P.M. This well was spudded on November 7, 1972, and completed on November 19, 1972, at a total depth of 6049'. The Mesaverde formation in the intervals between 5126'-5136', 5204'-5214', 5225'-5237', 5272'-5288', 5644'-5658', 5670'-5678', 5704'-5712', 5722'-5730', 5764'-5776', 5792'-5804', 5842'-5854', 5888'-5896', 5928'-5936', 5952'-5960', 5992'-6000' was treated with a sand-water fracturing process on November 17, 1972. The Mesaverde formation was shut-in on November 19, 1972, and after being shut-in for eight (8) days,

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

December 18, 1972

the Mesaverde formation was tested on November 27, 1972, and following a three (3) hour blow-down period gauged 3371 MCF/D through a 3/4" choke and 6285 MCF/D by the calculated absolute open-flow method with an SIPC of 844 psia and an SIPT of 844 psia. The spacing unit for this well is described as the W/2 of Section 17, Township 28 North, Range 6 West, containing 320.00 acres.

This spacing unit was included in the San Juan 28-6 Unit Third Expanded Participating Area of the Mesaverde formation, effective December 1, 1953 and the completion of this well does not warrant any further expansion of the Mesaverde Participating Area.

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

Yours very truly,



James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DI:lj
SJ 28-6 4.3

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

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Tenneco Oil Company

The Wiser Oil Company

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

543

December 7, 1972

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

Attention: Mr. D. N. Canfield

Re: Supplemental 1972 Drilling
Program, San Juan 28-6
Unit, Rio Arriba County,
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplemental Drilling Program which provides for the drilling of seven Dakota wells during 1972 for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

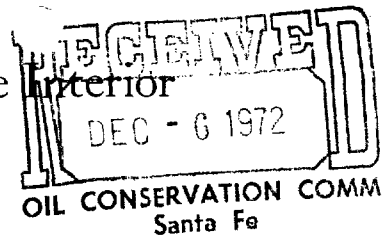
cc: United States Geological Survey - Roswell
Commissioner of Public Lands - Santa Fe



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



December 4, 1972

543

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

Attention: Mr. D. N. Canfield

Gentlemen:

On this date, your 1972 supplemental plan of development for the San Juan 28-6 unit area, Rio Arriba County, New Mexico, in which you propose to drill seven Dakota wells, was approved. Such approval is subject to like approval by the appropriate officials of the State of New Mexico.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

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

JAGillham:lh

El Paso Natural Gas Company

El Paso, Texas 79999

November 28, 1972

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 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
SUPPLEMENTAL 1972 DRILLING PROGRAM

Gentlemen:

By letter dated March 6, 1972, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned Unit for calendar year 1972. Pursuant to Section 10 of the San Juan 28-6 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Supplemental Drilling Program which provides for the drilling of the following wells during 1972:

<u>Well</u>	<u>Spacing Unit</u>	<u>Formation</u>
130	E/2 Sec. 32, T-28-N, R-6-W	Dakota
132	W/2 Sec. 32, T-28-N, R-6-W	Dakota
133	N/2 Sec. 4, T-27-N, R-6-W	Dakota
134	W/2 Sec. 5, T-27-N, R-6-W	Dakota
135	S/2 Sec. 6, T-27-N, R-6-W	Dakota
185	S/2 Sec. 33, T-28-N, R-6-W	Dakota
186	N/2 Sec. 6, T-27-N, R-6-W	Dakota

All of the working interest owners have been contacted, and the Supplemental Drilling Program reflects the desires of a majority of these working interest owners.

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

November 28, 1972

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances and any other wells 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,

A handwritten signature in black ink, appearing to read "D. N. Canfield", written in a cursive style.

D. N. Canfield
Manager
Land Department
Energy Resource Development

DNC:DI:lj
Enclosures
San Juan 28-6 Unit 3.0

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

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

APPROVED: A. L. Carter, Jr. DATE: June 7, 1972
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey and
the Commissioner of Public Lands

The foregoing approvals are for the Supplemental 1972 Drilling
Program for the San Juan 28-6 Unit #14-08-001-1051, Rio Arriba County,
New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will
of Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

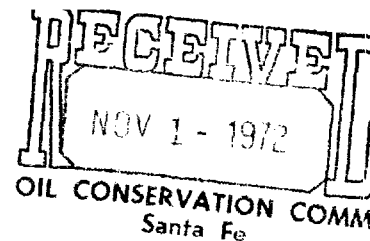
Skelly Oil Company

Tenneco Oil Company

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79999



October 30, 1972

54/3

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 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPROVAL OF THE TWENTY-FOURTH
REVISION OF THE PARTICIPATING AREA
FOR THE DAKOTA FORMATION

Gentlemen:

This is to advise that the captioned Expansion for the San Juan 28-6 Unit was approved by the Regulatory Bodies on the following dates:

United States Geological Survey	-	October 18, 1972
Commissioner of Public Lands	-	September 13, 1972
Oil Conservation Commission	-	September 14, 1972

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Yours very truly,

A handwritten signature in dark ink, appearing to read "Dick Isaacks".

Dick Isaacks
Senior Landman
Land Department
Energy Resource Development

DI:dks
S.J. 28-6 Unit 4.3

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

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

Betta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Tenneco Oil Company

The Wiser Oil Company



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

October 18, 1972

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

543

Gentlemen:

The twenty-fourth revision of the Dakota participating area for the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-1051, was approved on October 18, 1972, by the Acting Oil and Gas Supervisor, U. S. Geological Survey, effective as of July 1, 1972. By such revision, the Dakota participating area is enlarged to 23,836.85 acres.

The twenty-fourth revision of the Dakota participating area proposes the $W\frac{1}{4}$ sec. 13 and $N\frac{1}{4}$ sec. 14, T. 27 N., R. 6 W., N.M.P.M., and is based on the completion of unit well No. 168 in the $SW\frac{1}{4}$ sec. 14 as a paying well pursuant to the terms of the unit agreement. Unit well No. 168 was completed on July 24, 1972, for a calculated absolute open flow potential of 3,922 MCF/D from the Dakota 7,534 to 7,746 feet.

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

Sincerely yours,

(SIGNED) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

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

JMonro:lh

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

September 14, 1972

543

C
O
P
Y

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

Attention: Mr. James R. Permenter

Re: Twenty-Fourth Expanded
Participating Area,
Dakota Formation, San
Juan 28-6 Unit, Rio
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Twenty-Fourth Expanded Participating Area for the Dakota Formation for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

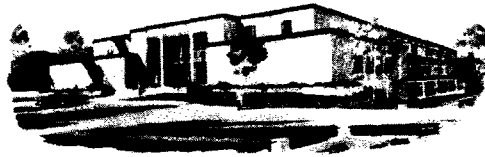
cc: United States Geological Survey
Roswell, New Mexico

Commissioner of Public Lands - Santa Fe

State of New Mexico



ALEX J. ARMIJO
COMMISSIONER

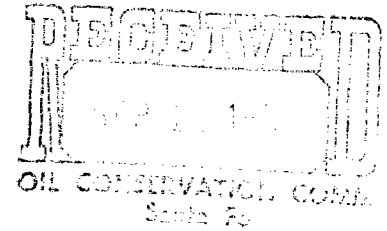


Commissioner of Public Lands

September 13, 1972

TELEPHONE

505-827-2748



P. O. Box 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
TWENTY-FOURTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION
Effective July 1, 1972

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved your Twenty-Fourth Expanded Participating Area of the Dakota Formation, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

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

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s

cc: UEGS-Roswell, New Mexico (ltr. only)
OCC-Santa Fe, New Mexico (cy of ltr and 3 cys of appln.)

El Paso Natural Gas Company

El Paso, Texas 79999

September 8, 1972

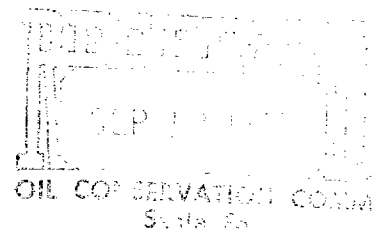
RECEIVED
SEP 11 10 02 AM '72

SANTA FE, N. M.

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 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico,
APPLICATION FOR APPROVAL OF THE
TWENTY-FOURTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION,
Effective July 1, 1972

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Twenty-Fourth Expanded Participating Area for the Dakota Formation, to wit:

TWENTY-FOURTH EXPANDED PARTICIPATING AREA - Effective July 1, 1972

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 27 North, Range 6 West, N.M.P.M.</u>	
Section 13: W/2	
Section 14: N/2	640.00

RECEIVED
SEP 11 10 03 AM '72
STATE OF NEW MEXICO
SANTA FE, N. M.

September 8, 1972

This proposed Twenty-Fourth 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 28-6 Unit #168 well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

The San Juan 28-6 Unit #168 well, located 1170' from the South line and 1840' from the West line of Section 14, Township 27 North, Range 6 West, N.M.P.M., was spudded on April 20, 1972, and completed on July 14, 1972, at a total depth of 7798'. The Dakota Formation in the intervals between 7534'-7546', 7562'-7568', 7598'-7604', 7634'-7646', 7692'-7698', 7708'-7714', 7734'-7746' was treated with a sand-water fracturing process on July 13, 1972. The well was shut-in on July 14, 1972, and after being shut-in for ten (10) days the Dakota Formation was tested on July 24, 1972, and after a three-hour blow-down period the well gauged 3793 MCF/D through a 3/4" choke and 3922 MCF/D by the calculated absolute open-flow method, with an SIPT of 2682 psia and an SIPC of 2280 psia.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Twenty-Fourth Expanded Participating Area of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "B"

Geological Report on the Twenty-Fourth Expanded Participating Area of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-6 Subsurface Structure Contour Map
Figure No. 2: San Juan 28-6 Isopachous Map

EXHIBIT "D"

Schedule of Dakota Gas Production

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


September 8, 1972

Attached hereto is Schedule XXV that shows the proposed Twenty-Fourth Expanded Participating Area for the Dakota Formation in the San Juan 28-6 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 Twenty-Fourth Expanded Participating Area of the Dakota Formation meets with your approval, please indicate such approval in the space provided and return an approved copy thereof 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:DI:nja
Enclosures
San Juan 28-6 Unit 4.3

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

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

DATE: _____

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

DATE: September 13, 1972

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

DATE: September 13, 1972

The foregoing approvals are for the Twenty-Fourth Expanded Participating Area of the Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

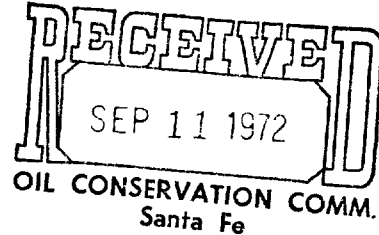
Tenneco Oil Company

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79999

September 8, 1972



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

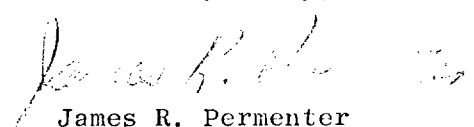
Re: San Juan 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
TWENTY-FOURTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION
Effective July 1, 1972

Gentlemen:

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

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

Yours very truly,


James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DI:nja
Enclosures
San Juan 28-6 Unit 4.3

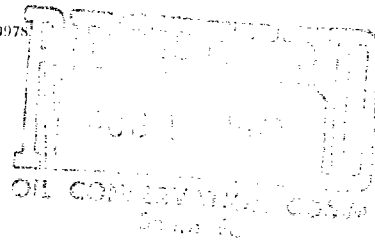
cc: Regional Oil & Gas Supervisor
United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

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

El Paso Natural Gas Company

El Paso, Texas 79978

August 16, 1972



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

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

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

Re: San Juan 28-6 Unit #14-08-001-
1051, NOTICE OF COMPLETION OF
ADDITIONAL WELLS, Dakota Formation

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that five (5) additional wells capable of producing unitized substances in paying quantities from the Dakota Formation have been completed upon acreage committed to the Unit. These wells are as follows:

The San Juan 28-6 Unit #164 Well is located 830' from the South line and 1180' from the West line of Section 34, Township 28 North, Range 6 West, N.M.P.M. This well was spudded on June 4, 1972 and completed on July 17, 1972 at a total depth of 7970'. The Dakota Formation in the intervals between 7692'-7700', 7788'-7800', 7846'-7854', 7880'-7888' was treated with a sand-water fracturing process on July 17, 1972. The Dakota Formation was shut-in on July 18, 1972, and after being shut-in for fifteen (15) days, the Dakota Formation was tested on August 2, 1972 and following a three (3) hour blow-down period gauged 4123 MCF/D through a 3/4" choke and 4337 MCF/D by the calculated absolute open-flow method, with an SI/PC of 2651 psia and an SI/PT of 2622 psia. The spacing unit for this well is described as the W/2 of Section 34, Township 28 North, Range 6 West, containing 324.69 acres.

August 16, 1972

The NW/4 of Section 34 was included in the San Juan 28-6 Unit Sixth Expanded Participating Area of the Dakota Formation, effective October 1, 1963, and the SW/4 of Section 34 was included in the San Juan 28-6 Unit Seventh Expanded Participating Area of the Dakota Formation, effective August 1, 1964. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

The San Juan 28-6 Unit #165 Well is located 990' from the North line and 1190' from the East line of Section 30, Township 28 North, Range 6 West, N.M.P.M. This well was spudded on June 17, 1972 and completed on July 26, 1972 at a total depth of 7874'. The Dakota Formation in the intervals between 7570'-7578', 7588'-7596', 7692'-7704', 7743'-7751' was treated with a sand-water fracturing process on July 25, 1972. The Dakota Formation was shut-in on July 26, 1972, and after being shut-in for seven (7) days, the Dakota Formation was tested on August 2, 1972 and following a three (3) hour blow-down period gauged 2416 MCF/D through a 3/4" choke and 2476 MCF/D by the calculated absolute open-flow method, with an SIPC of 2687 psia and an SIPT of 2254 psia. The spacing unit for this well is described as the E/2 of Section 30, Township 28 North, Range 6 West, containing 320.00 acres.

This spacing unit was included in the San Juan 28-6 Unit Nineteenth Expanded Participating Area of the Dakota Formation, effective June 1, 1971. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

The San Juan 28-6 Unit #166 Well is located 810' from the South line and 875' from the West line of Section 1, Township 27 North, Range 6 West, N.M.P.M. This well was spudded on May 13, 1972 and completed on July 21, 1972 at a total depth of 7748'. The Dakota Formation in the intervals between 7498'-7510', 7606'-7618', 7650'-7656', 7670'-7676', 7686'-7692', 7702'-7708' was treated with a sand-water fracturing process on July 20, 1972. The Dakota Formation was shut-in on July 22, 1972, and after being shut-in for ten (10) days, the Dakota Formation was tested on August 1, 1972 and following a three (3) hour blow-down period gauged 5665 MCF/D through a 3/4" choke and 5920 MCF/D by the calculated absolute open-flow method, with an SIPC of 2698 psia and an SIPT of 2453 psia. The spacing unit for this well is described as the W/2 of Section 1, Township 27 North, Range 6 West, containing 320.32 acres.

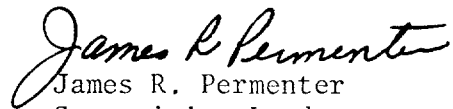
Regional Oil & Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
Page Four

August 16, 1972

This spacing unit was included in the San Juan 28-6 Unit Twentieth Expanded Participating Area of the Dakota Formation, effective July 1, 1971. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,


James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DI:lj
SJ 28-6 Unit 4.3

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

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will
of Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Tenneco Oil Company

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79999

August 9, 1972

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
TWENTY-THIRD EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION,
Effective April 1, 1972

Gentlemen:

The captioned Expansion was approved by the regulatory bodies on
the following dates:

United States Geological Survey	-	July 21, 1972
Commissioner of Public Lands	-	July 7, 1972
Oil Conservation Commission	-	July 10, 1972

Copies of this letter are being sent to the working interest owners
of the San Juan 28-6 Unit.

Yours very truly,



Dick Isaacks
Senior Landman
Land Department
Energy Resource Development

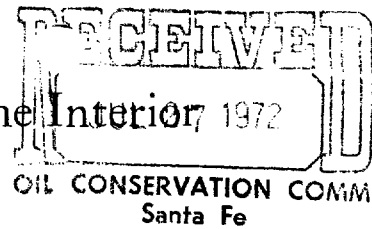
DI:nja
S.J. 28-6 Unit 4.3

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



United States Department of the Interior 1972

GEOLOGICAL SURVEY



Drawer 1857
Roswell, New Mexico 88201

July 21, 1972

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

543

Attention: Mr. James R. Permenter

Gentlemen:

Your application of June 29, 1972, requesting approval of the twenty-third revision of the Dakota participating area for the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-1051, was approved on July 21, 1972, by the Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of April 1, 1972.

The twenty-third revision adds 320 acres described as the E $\frac{1}{2}$ sec. 13, T. 27 N., R. 6 W., N.M.P.M., which enlarges the Dakota participating area to 23,196.85 acres, and is based on the information contributed by unit well No. 171 located in the NE $\frac{1}{4}$ of sec. 24, T. 27 N., R. 6 W., N.M.P.M. Such well was completed April 26, 1972, for a calculated open flow potential of 5,833 MCFGD from the Dakota interval 7,288 to 7,524 feet.

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

Sincerely yours,

N. O. FREDERICK
Area Oil and Gas Supervisor

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

JAGillham:ds

El Paso Natural Gas Company

El Paso, Texas 79978

July 12, 1972

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

543

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

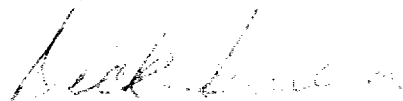
Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
FIFTEENTH EXPANDED PARTICIPATING
AREA, Pictured Cliffs Formation,
Effective July 1, 1972

Gentlemen:

Please refer to our letter of July 10, 1972, advising that the Fifteenth Expanded Participating Area for the Pictured Cliffs Formation submitted to you on July 3, 1972, is incorrect. We are enclosing a corrected Fifteenth Expanded Participating Area dated July 12, 1972. As we requested in our July 10 letter, please destroy the July 3, 1972, Expansion and replace it with the July 12, 1972, Expansion.

Yours very truly,



Dick Isaacks
Senior Landman
Land Department
Energy Resource Development

DI:nja
S.J. 28-6 Unit 4.1

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

El Paso Natural Gas Company

El Paso, Texas 79978

July 12, 1972

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
FIFTEENTH EXPANDED PARTICIPATING
AREA, Pictured Cliffs Formation,
Effective July 1, 1972

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 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 paying quantities from the Pictured Cliffs Formation have been completed on acreage committed to the Unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include these wells as follows:

The San Juan 28-6 Unit #162 well is located 800' from the South line and 1650' from the West line of Section 26, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on May 3, 1972, and completed without tubing on May 24, 1972, at a total depth of 3559'. The Pictured Cliffs Formation between 3384'-3392', 3402'-3410', 3420'-3428' was treated with a sand-water fracturing

July 12, 1972

process on May 24, 1972. After being shut-in for gauge on June 2, 1972, for twelve (12) days, the well was tested on June 14, 1972, and following a three-hour blow-down period gauged 2391 MCF/D through a 3/4" choke and 2509 MCF/D by the calculated absolute open-flow method with an SIPC of 1089 psia. The committed drilling block upon which this well is located is described as the W/2 of Section 26, Township 28 North, Range 6 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on June 14, 1972.

The San Juan 28-6 Unit #163 well is located 850' from the North line and 1180' from the East line of Section 27, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on May 10, 1972, and completed without tubing on May 24, 1972, at a total depth of 3488'. The Pictured Cliffs Formation between 3390'-3402' and 3412'-3424' was treated with a sand-water fracturing process on May 24, 1972. After being shut-in for gauge on June 6, 1972, for eight (8) days, the well was tested on June 14, 1972, and following a three-hour blow-down period gauged 1750 MCF/D through a 3/4" choke and 1799 MCF/D by the calculated absolute open-flow method with an SIPC of 1042 psia. The committed drilling block upon which this well is located is described as the E/2 of Section 27, Township 28 North, Range 6 West, N.M.P.M., and consists of 320.00 acres.

Completion of the San Juan 28-6 Unit #162 well has created an Intervening Drilling Block described as the W/2 of Section 35, Township 28 North, Range 6 West, containing 323.48 acres, more or less.

Under the terms of the San Juan 28-6 Unit Agreement, the Pictured Cliffs Participating Area is expanded to include the following acreage, effective July 1, 1972:

<u>Township 28 North, Range 6 West, N.M.P.M.</u>	<u>Acres</u>
Section 26: W/2	320.00
Section 27: E/2	320.00
Section 35: Lots 3, 4, N/2 SW/4, NW/4	323.48


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

July 12, 1972

Attached is Schedule XVI showing the Fifteenth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Fifteenth Expanded Participating Area will become effective as of July 1, 1972.

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

Yours very truly,


James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DI:nja
Attachments
S.J. 28-6 Unit 4.1 .

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

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Tenneco Oil Company

The Wiser Oil Company

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

July 10, 1972

543

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

Attention: Mr. James R. Permenter

Re: Twenty-Third Expansion of
the Dakota Participating
Area, San Juan 28-6, Rio
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Twenty-Third Expanded Participating Area of the Dakota Formation for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

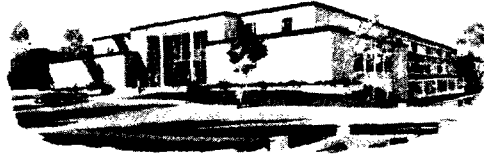
A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

C
O
P
Y

State of New Mexico



Commissioner of Public Lands

July 7, 1972

ALEX J. ARMIJO
COMMISSIONER

P. O. Box 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
TWENTY-THIRD EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION, Effective
April 1, 1972

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved your Twenty-Third Expanded Partidipating Area of the Dakota Formation, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are retaining two copies and handing six approved copies to the Oil Conservation Commission, requesting them to forward five copies to the United States Geological Survey, Roswell, New Mexico. After this application has been approved and signed by the United States Geological Survey, two copies should be returned to El Paso.

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s

cc:

USGS-Roswell, New Mexico (ltr. only)
OCC-Santa Fe, New Mexico (cy of ltr and 6 cys of appln.)

El Paso Natural Gas Company

El Paso, Texas 79978

54

July 3, 1972

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
FIFTEENTH EXPANDED PARTICIPATING
AREA, Pictured Cliffs Formation,
Effective July 1, 1972

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 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 paying quantities from the Pictured Cliffs Formation have been completed on acreage committed to the Unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include these wells as follows:

The San Juan 28-6 Unit #162 well is located 800' from the South line and 1650' from the West line of Section 26, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on May 3, 1972, and completed without tubing on May 24, 1972, at a total depth of 3559'. The Pictured Cliffs Formation between 3384'-3392', 3402'-3410', 3420'-3428' was treated with a sand-water fracturing

July 3, 1972

process on May 24, 1972. After being shut-in for gauge on June 2, 1972, for twelve (12) days, the well was tested on June 14, 1972, and following a three-hour blow-down period gauged 2391 MCF/D through a 3/4" choke and 2509 MCF/D by the calculated absolute open-flow method with an SIPC of 1089 psia. The committed drilling block upon which this well is located is described as the W/2 of Section 26, Township 28 North, Range 6 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on June 14, 1972.

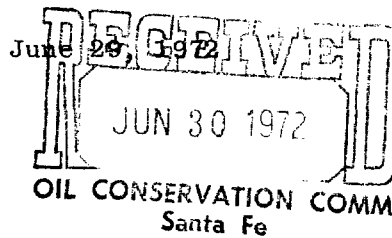
The San Juan 28-6 Unit #163 well is located 850' from the North line and 1180' from the East line of Section 27, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on May 10, 1972, and completed without tubing on May 24, 1972, at a total depth of 3488'. The Pictured Cliffs Formation between 3390'-3402' and 3412'-3424' was treated with a sand-water fracturing process on May 24, 1972. After being shut-in for gauge on June 6, 1972, for eight (8) days, the well was tested on June 14, 1972, and following a three-hour blow-down period gauged 1750 MCF/D through a 3/4" choke and 1799 MCF/D by the calculated absolute open-flow method with an SIPC of 1042 psia. The committed drilling block upon which this well is located is described as the E/2 of Section 27, Township 28 North, Range 6 West, N.M.P.M., and consists of 320.00 acres.

Under the terms of the San Juan 28-6 Unit Agreement, the above-described drilling blocks for the San Juan 28-6 Unit wells #162 and #163 are admitted to the Pictured Cliffs Participating Area as of July 1, 1972.

Attached is Schedule XVI showing the Fifteenth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no

El Paso Natural Gas Company

El Paso, Texas 79978



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

Re: San Juan 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico,
APPLICATION FOR APPROVAL OF THE
TWENTY-THIRD EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION,
Effective April 1, 1972

Gentlemen:

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

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

Yours very truly,

James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DI:nja
Enclosures
S.J. 28-6 Unit 4.3

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

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

El Paso Natural Gas Company

El Paso, Texas 79978

June 29, 1972

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico,
APPLICATION FOR APPROVAL OF THE
TWENTY-THIRD EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION, Effective
April 1, 1972

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Twenty-Third Expanded Participating Area for the Dakota Formation, to wit:

TWENTY-THIRD EXPANDED PARTICIPATING AREA - Effective April 1, 1972

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 27 North, Range 6 West, N.M.P.M.</u> Section 13: E/2	320.00

June 29, 1972

This proposed Twenty-Third 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 28-6 Unit #171 well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

The San Juan 28-6 Unit #171 well, located 1825' from the East line and 1840' from the North line of Section 24, Township 27 North, Range 6 West, N.M.P.M., was spudded on March 19, 1972, and completed on April 16, 1972, at a total depth of 7561'. The Dakota Formation in the intervals between 7288'-7296', 7359'-7367', 7396'-7408', 7432'-7440', 7450'-7458', 7476'-7492', 7516'-7524' was treated with a sand-water fracturing process on April 16, 1972. The well was shut-in on April 17, 1972, and after being shut-in for nine (9) days the Dakota Formation was tested on April 26, 1972, and after a three-hour blow-down period the well gauged 5470 MCF/D through a 3/4" choke and 5883 MCF/D by the calculated absolute open-flow method, with an SIPT of 2691 psia and an SIPC of 1687 psia.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Twenty-Third Expanded Participating Area of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "B"

Geological Report on the Twenty-Third Expanded Participating Area of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-6 Subsurface Structure Contour Map
Figure No. 2: San Juan 28-6 Isopachous Map

EXHIBIT "D"

Schedule of Dakota Gas Production

12

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


June 29, 1972

Attached hereto is Schedule XXIV that shows the proposed Twenty-Third Expanded Participating Area for the Dakota Formation in the San Juan 28-6 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 Twenty-Third Expanded Participating Area of the Dakota Formation meets with your approval, please indicate such approval in the space provided and return an approved copy thereof 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:DI:nja
Enclosures
S.J. 28-6 Unit 4.3

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

27 100 200 300 400 500 600 700 800 900 1000

APPROVED: _____

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

DATE: _____

APPROVED: _____

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

DATE: July 7, 1972

APPROVED: _____

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

DATE: July 10, 1972

The foregoing approvals are for the Twenty-Third Expanded Participating Area of the Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Tenneco Oil Company

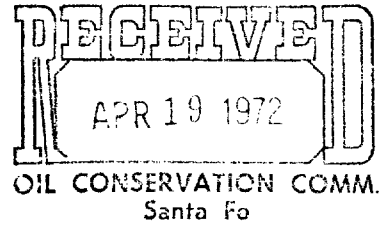
The Wiser Oil Company

26-11-72

El Paso Natural Gas Company

El Paso, Texas 79978

April 17, 1972



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 28-6 Unit
Rio Arriba County, New Mexico
1972 Drilling Program

Gentlemen:

The 1972 Drilling Program for the San Juan 28-6 Unit was approved by the Regulatory Bodies on the following dates:

United States Geological Survey	- April 11, 1972
Commissioner of Public Lands	- March 21, 1972
Oil Conservation Commission	- March 28, 1972

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

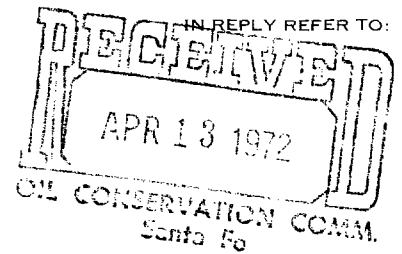
Yours very truly,

Dick Isaacks
Senior Landman
Land Department
Energy Resource Development

DI:lj
S.J. 28-6 Unit 3.0



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



April 11, 1972

543

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1972 plan of development for the San Juan 28-6 unit area, Rio Arriba County, New Mexico, proposing the drilling of eight Dakota wells, two Pictured Cliffs 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,

N. O. FREDERICK
Regional Oil and Gas Supervisor

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

JWillock:ds

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 28, 1972

543

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

Attention: Mr. T. W. Bittick

Re: 1972 Drilling Program
San Juan 28-6 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 eleven wells during the calendar year 1972 for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

Commissioner of Public Lands - Santa Fe

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MAR 23 1972

INVESTIGATION
SANTA FE

March 21, 1972

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
1972 DRILLING PROGRAM

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1972 Drilling Program for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, proposing the drilling of eleven additional wells. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the Drilling Program is enclosed.

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
encls.

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

El Paso Natural Gas Company

El Paso, Texas 79999

March 6, 1972

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1972 DRILLING PROGRAM

Gentlemen:

By letter dated January 18, 1971, El Paso Natural Gas Company, as Unit Operator, filed a drilling program for the captioned Unit for the calendar year 1971 providing for the drilling of eleven Dakota wells. Each of these wells was timely drilled.

Wells #107, #152, #153, #154, #155, #156 and #157 were drilled within the existing Dakota Participating Area and did not cause an expansion of the Dakota Participating Area. Well #160 caused the Nineteenth Expansion; Wells #158 and #159 caused the Twentieth Expansion; and Well #161 caused the Twenty-first Expansion. The Twenty-second Expansion was caused by completion of the San Juan 27-5 Unit Well #133 located in the SW/4 of Section 19, Township 27 North, Range 5 West.

With the completion of the above-mentioned wells, the total number of wells in the San Juan 28-6 Unit is as follows:

Pictured Cliffs	7
Dual, Pictured Cliffs-Mesaverde	15
Mesaverde, Commercial	71
Mesaverde, Non-Commercial	1
Dual, Mesaverde-Dakota	1
Dakota, Commercial	51
Dakota, Plugged and Abandoned	1
	<u>147</u>

March 6, 1972

El Paso Natural Gas Company, as Unit Operator, hereby submits a Drilling Program providing for the drilling of the following-described wells during the calendar year of 1972:

<u>Well No.</u>	<u>Drilling Block or Spacing Unit</u>	<u>Formation</u>
162	W/2 Sec. 26, T-28-N, R-6-W	Pictured Cliffs
163	E/2 Sec. 27, T-28-N, R-6-W	Pictured Cliffs
14-Y	W/2 Sec. 17, T-28-N, R-6-W	Mesaverde
164	W/2 Sec. 34, T-28-N, R-6-W	Dakota
165	E/2 Sec. 30, T-28-N, R-6-W	Dakota
166	W/2 Sec. 1, T-27-N, R-6-W	Dakota
167	S/2 Sec. 4, T-27-N, R-6-W	Dakota
168	S/2 Sec. 14, T-27-N, R-6-W	Dakota
169	S/2 Sec. 2, T-27-N, R-6-W	Dakota
170	E/2 Sec. 5, T-27-N, R-6-W	Dakota
171	E/2 Sec. 24, T-27-N, R-6-W	Dakota

Pictured Cliffs Wells #162 and #163 will be drilled on drilling blocks not presently within the Pictured Cliffs Participating Area in order to extend the limits of the Pictured Cliffs Participating Area. Mesaverde Well #14-Y will be drilled within the existing Mesaverde Participating Area to replace the San Juan 28-6 Well #14 that was plugged and abandoned in June 1968. Dakota Wells #164, #165, #166, #167, #168, #169 and #171 will be drilled within the existing Dakota Participating Area. Dakota Well #170 will be drilled on a spacing unit outside of the existing Dakota Participating Area in order to extend the limits of the Participating Area.

All of the working interest owners have been contacted, and this Drilling Program reflects the desires of the majority of these working interest owners.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of the unitized substances and any other wells deemed necessary 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,


T. W. Bittick

Director of Exploration
Energy Resource Development

TWB:DI:ks
Enclosures
S.J. 28-6, 3.0

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

DATE: _____

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

DATE: _____

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

DATE: March 22, 1972

The foregoing approvals are for the 1972 Drilling Program for the San Juan 28-6 Unit,
14-08-001-1051, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3)

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Burton-Hawks, Inc.

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

Mr. T. H. Harrington

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Tenneco Oil Company

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79999

January 18, 1972

543

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 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico,
APPROVAL OF THE NINETEENTH, TWENTIETH,
TWENTY-FIRST AND TWENTY-SECOND
EXPANDED PARTICIPATING AREAS OF THE
DAKOTA FORMATION

Gentlemen:

This is to advise that the captioned Expansion for the San Juan 28-6 Unit was approved by the Regulatory Bodies on the following dates:

United States Geological Survey	- January 13, 1972
Commissioner of Public Lands	- December 28, 1971
Oil Conservation Commission	- January 4, 1972

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Yours very truly,

Dick Isaacks

Dick Isaacks
Senior Landman
Land Department
Energy Resource Development

DI:ks
S.J. 28-6, 4.3

cc: Mrs. Pepita O. Jeffus



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

JAN 14 1972

CONSERVATION COMM.
SANTA FE

Drawer 1857
Roswell, New Mexico 88201

January 13, 1972

545

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

Attention: Mr. James R. Permenter

Gentlemen:

Your application of December 14, 1971, requesting approval of the nineteenth, twentieth, twenty-first and twenty-second revisions of the Dakota participating area for the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-1051, was approved on January 13, 1972, by the Acting Oil and Gas Supervisor, U. S. Geological Survey, effective as of June 1, July 1, August 1, and September 1, 1971, respectively.

The nineteenth revision adds 714.57 acres described as lots 3, 4, E $\frac{1}{2}$ SW $\frac{1}{4}$ sec. 19, all of sec. 30, all in T. 28 N., R. 6 W., which enlarges the Dakota participating area to 20,242.70 acres and is based on the completion of unit well No. 160 located in the SW $\frac{1}{4}$ sec. 19. Such well was completed June 9, 1971, for a calculated open flow potential of 5,002 MCFGPD from the Dakota interval 7,590 to 7,784 feet.

The twentieth revision adds 1,674.15 acres described as lots 1, 2, 3, 4, E $\frac{1}{2}$ W $\frac{1}{2}$ sec. 18, lots 1, 2, E $\frac{1}{2}$ SW $\frac{1}{4}$ sec. 19, all in T. 28 N., R. 6 W., and S $\frac{1}{2}$ sec. 2, E $\frac{1}{2}$ sec. 10, all sec. 11, all in T. 27 N., R. 6 W., which increases the Dakota participating area to 21,916.85 acres and is based on the completion of unit well Nos. 158 and 159 located in the NE $\frac{1}{4}$ sec. 11 and the SW $\frac{1}{4}$ sec. 18, respectively. Unit well No. 158 was completed July 22, 1971, for a calculated open flow potential of 3,153 MCFGPD from the Dakota interval 7,640 to 7,830 feet. Unit well No. 159 was completed July 27, 1971, for a calculated open flow potential of 4,599 MCFGPD from the Dakota interval 7,633 to 7,838 feet.

The twenty-first revision adds 640 acres described as all of sec. 12, T. 27 N., R. 6 W., which enlarges the Dakota participating area to 22,556.85 acres, and is based on the completion of unit well No. 161 located in the NE $\frac{1}{4}$ sec. 12. Such well was completed August 6, 1971, for a calculated open flow potential of 5,433 MCFGPD from the Dakota interval 7,406 to 7,610 feet.

The twenty-second revision adds 320 acres described as the E $\frac{1}{2}$ sec. 24, T. 27 N., R. 6 W., which enlarges the Dakota participating area to 22,876.85

acres, and is based on the completion of San Juan 27-5 unit well No. 133 located in the SW $\frac{1}{4}$ sec. 19, T. 27 N., R. 5 W. Such well was completed September 1, 1971, for a calculated open flow potential of 5,438 MCFGPD from the Dakota interval 7,274 to 7,474 feet.

Copies of the approved application are being distributed to the appropriate Federal offices and two approved copies are being returned herewith. The lease number for unit tract No. 11 shown by the allocation schedules attached to your application as Santa Fe 079051-A has been corrected to Santa Fe 079051-B on all copies and request that your records be noted accordingly. 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 Oil and Gas Supervisor

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

OIL C

1

E1

60

100

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 4, 1972

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

Attention: Mr. James R. Permenter

Re: Nineteenth, Twentieth, Twenty-
First, and Twenty-Second
Expanded Participating Areas,
Dakota Formation, San Juan 28-6
Unit, Rio Arriba County, New
Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Nineteenth, Twentieth, Twenty-First, and Twenty-Second Expanded Participating Areas, Dakota Formation for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

December 28, 1971

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DEC 29 1971

OIL CONSERVATION COMM.
SANTA FE

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

Re: San Juan 28-6 Unit
APPLICATION FOR APPROVAL OF
THE NINETEENTH, TWENTIETH, TWENTY-
FIRST AND TWENTY-SECOND EXPANDED
PARTICIPATING AREAS OF THE DAKOTA
FORMATION
Rio Arriba County, New Mexico

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved your application for the Nineteenth, Twentieth, Twenty-First and Twenty-Second Expanded Participating Areas of the Dakota Formation, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are retaining two copies and handing six approved copies to the Oil Conservation Commission, requesting them to forward five copies to the United States Geological Survey, Roswell, New Mexico.

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s

cc:

USGS-Roswell, New Mexico (ltr. only)

OCC- Santa Fe, New Mexico (6 cy of appln.)

RECEIVED
El Paso Natural Gas Company 12 17 1971

El Paso, Texas 79999

OIL CONSERVATION COMM.
SANTA FE

December 15, 1971

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

Re: San Juan 28-6 Unit #14-08-001-1051, Rio Arriba
County, New Mexico, APPLICATION FOR APPROVAL OF
THE NINETEENTH, TWENTIETH, TWENTY-FIRST AND
TWENTY-SECOND EXPANDED PARTICIPATING AREAS OF
THE DAKOTA FORMATION, Effective June 1, 1971,
July 1, 1971, August 1, 1971, and September 1, 1971

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the Nineteenth, Twentieth, Twenty-first and Twenty-second Expanded Participating Areas of the Dakota Formation for the referenced Unit.

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

Yours very truly,

James R. Permenter

James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DI:lj
Enclosures

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

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

cc: Mr. R. F. Leman
Mr. Charles Higgins

COPY

El Paso Natural Gas Company

El Paso, Texas 79978

December 14, 1971

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

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

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

RECEIVED

DEC 29 1971

OIL CONSERVATION COMM.
SANTA FE

Re: San Juan 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico,
APPLICATION FOR APPROVAL OF THE
NINETEENTH, TWENTIETH, TWENTY-FIRST
AND TWENTY-SECOND EXPANDED PARTI-
CIPATING AREAS OF THE DAKOTA FORMATION
Effective June 1, 1971, July 1, 1971,
August 1, 1971, and September 1, 1971

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Nineteenth, Twentieth, Twenty-First and Twenty-Second Expanded Participating Areas for the Dakota Formation, to wit:

NINETEENTH EXPANDED PARTICIPATING AREA - Effective June 1, 1971

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 6 West, N.M.P.M.</u>	
Section 19: Lots 3,4, E/2 SW/4	
Section 30: Lots 1,2,3,4, E/2 W/2, E/2 (All)	714.57

December 14, 1971

This proposed Nineteenth 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 28-6 Unit #160 well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

The San Juan 28-6 Unit #160 well, located 800' from the South line and 1450' from the West line of Section 19, Township 28 North, Range 6 West, N.M.P.M., was spudded on May 17, 1971, and completed on May 28, 1971, at a total depth of 7882'. The Dakota Formation in the intervals between 7590'-7594', 7602'-7614', 7626'-7630', 7704'-7720', 7758'-7766', 7776'-7784', 7864'-7868', was treated with a sand-water fracturing process on May 28, 1971. The well was shut-in on May 29, 1971, and after being shut-in for twelve (12) days the Dakota Formation was tested on June 9, 1971, and after a three-hour blow-down period the well gauged 4806 MCF/D through a 3/4" choke and 5002 MCF/D by the calculated absolute open-flow method, with an SIPT of 2667 psia and an SIPC of 2323 psia.

TWENTIETH EXPANDED PARTICIPATING AREA - Effective July 1, 1971

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 6 West, N.M.P.M.</u>	
Section 18: Lots 1,2,3,4, E/2 W/2, (W/2)	
Section 19: Lots 1,2, E/2 NW/4	
<u>Township 27 North, Range 6 West, N.M.P.M.</u>	
Section 2: S/2	
Section 10: E/2	
Section 11: All	1674.15

This proposed Twentieth 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 28-6 Unit #158 and #159 wells are capable of producing unitized substances in paying quantities from the Dakota Formation. These wells are as follows:

The San Juan 28-6 Unit #158 well, located 1460' from the North line and 1840' from the East line of Section 11, Township 27 North, Range 6 West, N.M.P.M., was spudded on July 3, 1971, and completed on July 14, 1971, at

December 14, 1971

a total depth of 7862'. The Dakota Formation in the intervals between 7640'-7652', 7662'-7668', 7703'-7709', 7734'-7746', 7772'-7778', 7790'-7796', 7818'-7830' was treated with a sand-water fracturing process on July 14, 1971. The Dakota Formation was shut-in on July 15, 1971, and after being shut-in for seven (7) days, the Dakota Formation was tested on July 22, 1971, and following a three-hour blow-down period the well gauged 3082 MCF/D through a 3/4" choke and 3153 MCF/D by the calculated absolute open-flow method, with an SIPC of 2573 psia and an SIPT of 2521 psia.

The San Juan 28-6 Unit #159 well, located 800' from the South line and 1450' from the West line of Section 18, Township 28 North, Range 6 West, N.M.P.M., was spudded on May 28, 1971 and completed on July 9, 1971 at a total depth of 7870'. The Dakota Formation in the intervals between 7633'-7638', 7648'-7658', 7752'-7762', 7828'-7838', was treated with a sand-water fracturing process on June 7, 1971. The Dakota Formation was shut-in on July 15, 1971, and after being shut-in for twelve (12) days, the Dakota Formation was tested on July 27, 1971, and following a three-hour blow-down period the well gauged 4458 MCF/D through a 3/4" choke and 4599 MCF/D by the calculated absolute open-flow method, with an SIPC of 2562 psia and an SIPT of 2590 psia.

TWENTY-FIRST EXPANDED PARTICIPATING AREA - Effective August 1, 1971

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 27 North, Range 6 West, N.M.P.M.</u>	
Section 12: All	640.00

This proposed Twenty-First 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 28-6 Unit #161 Well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

The San Juan 28-6 Unit #161 well, located 1460' from the North line and 1775' from the East line of Section 12, Township 27 North, Range 6 West, N.M.P.M., was spudded on July 15, 1971 and completed on July 29, 1971 at a total depth of 7643'. The Dakota Formation in the intervals between 7406'-7418', 7510'-7522', 7554'-7560', 7570'-7576', 7598'-7610', was treated with a sand-water fracturing

December 14, 1971

process on July 29, 1971. The Dakota Formation was shut-in on July 30, 1971, and after being shut-in for seven (7) days, the Dakota Formation was tested on August 8, 1971, and following a three-hour blow-down period gauged 5002 MCF/D through a 3/4" choke and 5433 MCF/D by the calculated absolute open-flow method, with an SIPC of 2677 psia and an SIPT of 2675 psia.

TWENTY-SECOND EXPANDED PARTICIPATING AREA - Effective September 1, 1971

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 27 North, Range 6 West, N.M.P.M.</u> Section 24: E/2	320.00

This proposed Twenty-Second 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 27-5 Unit #133 well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

The San Juan 27-5 Unit #133 well, located 1150' from the South line and 1150' from the West line of Section 19, Township 27 North, Range 5 West, N.M.P.M., was spudded on August 6, 1971 and completed on August 18, 1971 at a total depth of 7552'. The Dakota Formation in the intervals between 7274'-7280', 7344'-7350', 7372'-7384', 7412'-7418', 7432'-7438', 7450'-7456', 7468'-7474', was treated with a sand-water fracturing process on August 17, 1971. The Dakota Formation was shut-in on August 18, 1971, and after being shut-in for thirteen (13) days, the Dakota Formation was tested on September 1, 1971, and following a three-hour blow-down period gauged 5220 MCF/D through a 3/4" choke and 5438 MCF/D by the calculated absolute open-flow method, with an SIPC of 2727 psia and an SIPT of 2727 psia.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Nineteenth, Twentieth, Twenty-First and Twenty-Second Expanded Participating Areas of the Dakota Formation within the San Juan 28-6 Unit.

December 14, 1971

EXHIBIT "B"

Geological Report on the Nineteenth, Twentieth, Twenty-First and Twenty-Second Expanded Participating Areas of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-6 Subsurface Structure Contour Map
Figure No. 2: San Juan 28-6 Isopachous Map

EXHIBIT "D"

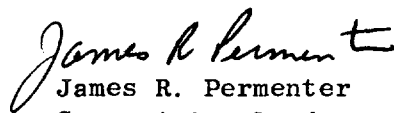
Schedule of Dakota Gas Production

Attached hereto are Schedules XX, XXI, XXII and XXIII that show the proposed Nineteenth, Twentieth, Twenty-First and Twenty-Second Expanded Participating Areas for the Dakota Formation in the San Juan 28-6 Unit Area. These Schedules describe the Expanded Participating Areas, show percentage of unitized substances allocated to each unitized tract and the percentage of ownership in each tract.

If these Nineteenth, Twentieth, Twenty-First and Twenty-Second Expanded Participating Areas of the Dakota Formation meet with your approval, please indicate such approval in the space provided and return an approved copy thereof 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

JP:DI:nja
Enclosures
S.J. 28-6, 4.3

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

APPROVED: _____

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

DATE: _____

APPROVED: _____

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

DATE: 12-28-71

APPROVED: _____

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

DATE: January 4, 1972

The foregoing approvals are for the Nineteenth, Twentieth, Twenty-First and Twenty-Second Expanded Participating Areas of the Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba County, New Mexico.

El Paso Natural Gas Company

El Paso, Texas 79999

October 5, 19**RECEIVED**

OCT - 8 1971

OIL CONSERVATION COMM.
SANTA FE

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
NOTICE OF COMPLETION OF ADDITIONAL
WELLS, Dakota Formation

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that seven (7) additional wells capable of producing unitized substances in paying quantities from the Dakota Formation have been completed upon acreage committed to the Unit. These wells are as follows:

The San Juan 28-6 Unit #107 Well is located 1150' from the South line and 990' from the West line of Section 23, T-28-N, R-6-W, N.M.P.M. This well was spudded on 6-20-71 and completed on 7-1-71 at a total depth of 7856'. The Dakota Formation in the intervals between 7600'-7608', 7622'-7630', 7712'-7724', 7771'-7783', 7800'-7812' was treated with a sand-water fracturing process on 6-30-71. The Dakota Formation was shut in on 7-1-71, and after being shut in for twelve (12) days, the Dakota Formation was tested on 7-13-71 and following a three (3) hour blow-down period gauged 5678 Mcf/d through a 3/4" choke and 16,654 Mcf/d by the calculated absolute open-flow method, with an SIPC of 2752 psia and an SIPT of 2744 psia. The spacing unit for this well is described as the W/2 of Section 23, T-28-N, R-6-W, containing 320.00 acres.

October 5, 1971

This spacing unit was included in the San Juan 28-6 Unit Sixth Expanded Participating Area of the Dakota Formation effective 10-1-63 and the completion of this well does not warrant further expansion of the Dakota Participating Area.

The San Juan 28-6 Unit #152 Well is located 800' from the South line and 800' from the West line of Section 24, T-28-N, R-6-W, N.M.P.M. This well was spudded on 5-25-71 and completed on 6-6-71 at a total depth of 7890'. The Dakota Formation in the intervals between 7612'-7620', 7718'-7730', 7760'-7768', 7792'-7808' was treated with a sand-water fracturing process on 6-5-71. The Dakota Formation was shut in on 6-6-71, and after being shut in for eleven (11) days, the Dakota Formation was tested on 6-17-71 and following a three (3) hour blow-down period gauged 5327 Mcf/d through a 3/4" choke and 5601 Mcf/d by the calculated absolute open-flow method, with an SIPC of 2594 psia and an SIPT of 2588 psia. The spacing unit for this well is described as the S/2 of Section 24, T-28-N, R-6-W, containing 320.00 acres.

This spacing unit was included in the San Juan 28-6 Unit Initial Expanded Participating Area of the Dakota Formation effective 12-7-59 and the completion of this well does not warrant further expansion of the Dakota Participating Area.

The San Juan 28-6 Unit #153 Well is located 1840' from the South line and 925' from the West line of Section 25, T-28-N, R-6-W, N.M.P.M. This well was spudded on 6-6-71 and completed on 6-20-71 at a total depth of 7978'. The Dakota Formation in the intervals between 7707'-7715', 7726'-7734', 7818'-7830', 7872'-7880', 7910'-7922' was treated with a sand-water fracturing process on 6-19-71. The Dakota Formation was shut in on 6-20-71, and after being shut in for eight (8) days, the Dakota Formation was tested on 6-28-71 and following a three (3) hour blow-down period gauged 4463 Mcf/d through a 3/4" choke and 4708 Mcf/d by the calculated absolute open-flow method, with an SIPC of 2107 psia and an SIPT of 2107 psia. The spacing unit for this well is described as the W/2 of Section 25, T-28-N, R-6-W, containing 320.00 acres.

This spacing unit was included in the San Juan 28-6 Unit Fourth Expanded Participating Area of the Dakota Formation effective 12-1-62 and the completion of this well does not warrant further expansion of the Dakota Participating Area.

The San Juan 28-6 Unit #154 Well is located 810' from the South line and 1650' from the West line of Section 27, T-28-N, R-6-W, N.M.P.M. This well was spudded on 7-1-71 and completed on 7-12-71 at a total depth of 7842'. The Dakota Formation in the intervals between 7590'-7596', 7608'-7620', 7702'-7714', 7748'-7754', 7770'-7776', 7786'-7792', 7804'-7810' was treated with a sand-water fracturing process on 7-12-71. The Dakota Formation was shut in on 7-13-71, and after being shut in for eight (8) days, the Dakota Formation was tested on 7-21-71 and following a three (3) hour blow-down period gauged 6909 Mcf/d through a

October 5, 1971

3/4" choke and 7511 Mcf/d by the calculated absolute open-flow method, with an SIPC of 2661 psia and an SIPT of 2390 psia. The spacing unit for this well is described as the W/2 of Section 27, T-28-N, R-6-W, containing 320.00 acres.

The SW/4 of the above described spacing unit was included in the San Juan 28-6 Unit Sixth Expanded Participating Area of the Dakota Formation effective 10-1-63, and the NW/4 of the above described spacing unit was included in the San Juan 28-6 Unit Ninth Expanded Participating Area of the Dakota Formation effective 12-1-65 and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

The San Juan 28-6 Unit #155 Well is located 1550' from the South line and 1190' from the West line of Section 28, T-28-N, R-6-W, N.M.P.M. This well was spudded on 7-13-71 and completed on 7-24-71 at a total depth of 7911'. The Dakota Formation in the intervals between 7622'-7630', 7640'-7656', 7734'-7750', 7776'-7784', 7796'-7804', 7818'-7826' was treated with a sand-water fracturing process on 7-23-71. The Dakota Formation was shut in on 7-24-71, and after being shut in for nine (9) days, the Dakota Formation was tested on 8-2-71 and following a three (3) hour blow-down period gauged 5415 Mcf/d through a 3/4" choke and 5699 Mcf/d by the calculated absolute open-flow method, with an SIPC of 2567 psia and an SIPT of 2502 psia. The spacing unit for this well is described as the W/2 of Section 28, T-28-N, R-6-W, containing 320.00 acres.

This spacing unit was included in the San Juan 28-6 Unit Fifteenth Expanded Participating Area of the Dakota Formation effective 10-1-67 and the completion of this well does not warrant further expansion of the Dakota Participating Area.

The San Juan 28-6 Unit #156 Well is located 1490' from the South line and 1840' from the West line of Section 29, T-28-N, R-6-W, N.M.P.M. This well was spudded on 5-6-71 and completed on 5-17-71 at a total depth of 7782'. The Dakota Formation in the intervals between 7496'-7502', 7511'-7521', 7610'-7628', 7670'-7680', 7714'-7718', 7734'-7740' was treated with a sand-water fracturing process on 5-16-71. The Dakota Formation was shut in on 5-17-71, and after being shut in for nine (9) days, the Dakota Formation was tested on 5-26-71 and following a three (3) hour blow-down period gauged 3581 Mcf/d through a 3/4" choke and 3696 Mcf/d by the calculated absolute open-flow method, with an SIPC of 2705 psia and an SIPT of 2659 psia. The spacing unit for this well is described as the W/2 of Section 29, T-28-N, R-6-W, containing 320.00 acres.

This spacing unit was included in the San Juan 28-6 Unit Seventeenth Expanded Participating Area of the Dakota Formation effective 11-1-68 and the completion of this well does not warrant further expansion of the Dakota Participating Area.

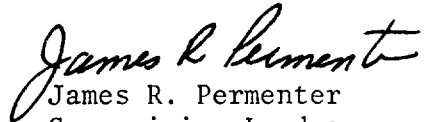
October 5, 1971

The San Juan 28-6 Unit #157 Well is located 1800' from the North line and 810' from the East line of Section 25, T-27-N, R-6-W, N.M.P.M. This well was spudded on 7-31-71 and completed on 8-12-71 at a total depth of 7551'. The Dakota Formation in the intervals between 7274'-7286', 7348'-7356', 7378'-7390', 7434'-7446', 7462'-7470', 7480'-7492' was treated with a sand-water fracturing process on 8-11-71. The Dakota Formation was shut in on 8-13-71, and after being shut in for seventeen (17) days, the Dakota Formation was tested on 8-30-71 and following a three (3) hour blow-down period gauged 4705 Mcf/d through a 3/4" choke and 4901 Mcf/d by the calculated absolute open-flow method, with an SIPC of 2722 psia and an SIPT of 2712 psia. The spacing unit for this well is described as the E/2 of Section 25, T-27-N, R-6-W, containing 320.00 acres.

This spacing unit was included in the San Juan 28-6 Unit Fourth Expanded Participating Area of the Dakota Formation effective 12-1-62 and the completion of this well does not warrant further expansion of the Dakota Participating Area.

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

Yours very truly,



James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DI:khs
S.J. 28-6, 4.3

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

SAN JUAN 28-6 UNIT
Working Interest Owners

Amoco Production Company (3) (D)

Atlantic Richfield Company (3) (D)

Beta Development Company (D)

Mr. Tom Bolack

Central National Bank & Trust Company (D)
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company (D)

El Paso Products Company (D)

Mr. T. H. Harrington (D)

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

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

Phillips Petroleum Company

Pubco Petroleum Corporation (2) (D)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation (D)

Skelly Oil Company (D)

Tenneco Oil Company (D)

The Wiser Oil Company (D)

El Paso Natural Gas Company

El Paso, Texas 79999

February 4, 1971

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1971 DRILLING PROGRAM

Gentlemen:

The 1971 Drilling Program dated January 18, 1971, for the referenced Unit was approved by the Regulatory Bodies on the dates indicated below:

United States Geological Survey	-	February 2, 1971
Commissioner of Public Lands	-	January 20, 1971
Oil Conservation Commission	-	January 22, 1971

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

Yours very truly,



Dick Isaacks
Senior Landman
Land Department

DI:ks
S.J. 28-6, 3.0



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

IN REPLY REFER TO:

971 FEB 3 PM 1 02

February 2, 1971

543

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 28-6 unit area, Rio Arriba County, New Mexico, proposing the drilling of eleven 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,

N. O. FREDERICK
Regional Oil and Gas Supervisor

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 22, 1971

543

C
O
P
Y

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

Attention: Mr. T. W. Bittick

Re: 1971 Drilling Program
San Juan 28-6 Unit,
Rio Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1971 providing for the drilling of eleven Dakota wells in the San Juan 28-6 Unit Area, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

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

January 10, 1971

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
1971 DRILLING PROGRAM

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1971 Drilling Program for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, proposing the drilling of eleven Dakota wells. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the Drilling Program is enclosed.

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

Sincerely yours,

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

AJA/GGM/s
encl.

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

El Paso Natural Gas Company

El Paso, Texas 79999

January 18, 1971

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1971 DRILLING PROGRAM

Gentlemen:

By letter dated March 2, 1970, El Paso Natural Gas Company, as Unit Operator, filed a drilling program for the captioned Unit for the calendar year 1970 providing for the drilling of five Dakota wells. Each of these wells was timely drilled within the existing Dakota Participating Area and the drilling of these wells caused no expansion of the Dakota Participating Area.

With the completion of the above-mentioned wells, the total number of wells in the San Juan 28-6 Unit is as follows:

Pictured Cliffs	7
Dual, Pictured Cliffs-Mesaverde	15
Mesaverde, Commercial	71
Mesaverde, Non-Commercial	1
Dual, Mesaverde-Dakota	1
Dakota, Commercial	40
Dakota, Plugged and Abandoned	<u>1</u>
	136

El Paso Natural Gas Company, as Unit Operator, hereby submits a Drilling Program providing for the drilling of the following-described wells during the calendar year of 1971:

January 18, 1971

<u>Well No.</u>	<u>Spacing Unit</u>	<u>Formation</u>
107	W/2 Sec. 23, T-28-N, R-6-W	Dakota
152	S/2 Sec. 24, T-28-N, R-6-W	Dakota
153	W/2 Sec. 25, T-28-N, R-6-W	Dakota
154	W/2 Sec. 27, T-28-N, R-6-W	Dakota
155	W/2 Sec. 28, T-28-N, R-6-W	Dakota
156	W/2 Sec. 29, T-28-N, R-6-W	Dakota
157	E/2 Sec. 25, T-27-N, R-6-W	Dakota
158	N/2 Sec. 11, T-27-N, R-6-W	Dakota
159	SW/4, S/2 NW/4 Sec. 18, NW/4 Sec. 19, T-28-N, R-6-W	Dakota
160	SW/4 Sec. 19, NW/4, N/2 SW/4 Sec. 30, T-28-N, R-6-W	Dakota
161	E/2 Sec. 12, T-27-N, R-6-W	Dakota

El Paso Natural Gas Company intends to drill these wells to the base of the Dakota Formation using rotary tools. Surface casing will be set to the depth of approximately 200' and an intermediate string will be run through the Pictured Cliffs Formation to a depth of approximately 3700', and then a production casing string will be run to the base of the Dakota Formation, which is estimated to be approximately 7950'. 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.

All of the working interest owners have been contacted, and this Drilling Program reflects the desires of the majority of these working interest owners.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of the 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.

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

January 18, 1971

Copies of this letter 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 "T. W. Bittick", with a large, sweeping flourish above the name.

T. W. Bittick

Director

Lands and Administration

Energy Resource Development

TWB:DI:ec
Enclosures
SJ 28-6, 3.0

APPROVED: _____

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

DATE: _____

APPROVED: _____

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

DATE: _____

APPROVED: _____

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

DATE: January 22, 1971

The foregoing approvals are for the 1971 Drilling Program for the San Juan 28-6 Unit,
#14-08-001-1051, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Central National Bank & Trust Company
of Des Moines, Trustee under the Will
of Gerald F. Harrington, Deceased

Continental Oil Company

El Paso Products Company

Mr. T. H. Harrington

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

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

Pan American Petroleum Corporation (3)

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Southern Petroleum Exploration, Inc.

Tenneco Oil Company

El Paso Natural Gas Company

El Paso, Texas 79999

August 3, 1970

543

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 28-6 Unit #14-08-001-
1051, NOTICE OF COMPLETION OF
ADDITIONAL WELLS, Dakota Formation

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that five (5) additional wells capable of producing unitized substances in paying quantities from the Dakota Formation have been completed upon acreage committed to the Unit. These wells are as follows:

The San Juan 28-6 Unit #147 Well is located 1550' from the North line and 1840' from the East line of Section 29, Township 28 North, Range 6 West, N.M.P.M. This well was spudded on May 11, 1970, and completed on May 23, 1970, at a total depth of 7634'. The Dakota Formation in the intervals between 7384'-7400', 7492'-7504', 7542'-7550', 7566'-7574' was treated with a sand-water fracturing process on May 22, 1970. The Dakota Formation was shut-in on May 25, 1970, and after being shut-in for thirty-one (31) days, the Dakota Formation was tested on June 25, 1970, and following a three (3) hour blow-down period gauged 4574 MCF/D through a 3/4" choke and 4727 MCF/D by the calculated absolute open-flow method, with

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

August 3, 1970

an SIPC of 2622 psia and an SIPT of 2654 psia. The spacing unit for this well is described as the E/2 of Section 29, Township 28 North, Range 6 West, containing 320.00 acres.

This spacing unit was included in the San Juan 28-6 Unit Sixteenth Expanded Participating Area of the Dakota Formation, effective October 1, 1968, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

The San Juan 28-6 Unit #148 Well is located 800' from the North line and 1460' from the East line of Section 28, Township 28 North, Range 6 West, N.M.P.M. This well was spudded on April 9, 1970, and completed on April 19, 1970, at a total depth of 7755'. The Dakota Formation in the intervals between 7479'-7485', 7499'-7505', 7594'-7606', 7632'-7644', 7690'-7702' was treated with a sand-water fracturing process on April 19, 1970. The Dakota Formation was shut-in on April 20, 1970, and after being shut-in for nine (9) days, the Dakota Formation was tested on April 29, 1970, and following a three (3) hour blow-down period gauged 6635 MCF/D through a 3/4" choke and 7004 MCF/D by the calculated absolute open-flow method, with an SIPC of 2553 psia and an SIPT of 2235 psia. The spacing unit for this well is described as the E/2 of Section 28, Township 28 North, Range 6 West, containing 320.00 acres.

This spacing unit was included in the San Juan 28-6 Unit Thirteenth Expanded Participating Area of the Dakota Formation, effective December 1, 1966, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

The San Juan 28-6 Unit #149 Well is located 800' from the North line and 800' from the East line of Section 27, Township 28 North, Range 6 West, N.M.P.M. This well was spudded on March 28, 1970, and completed on April 8, 1970, at a total depth of 7868'. The Dakota Formation in the intervals between 7612'-7624', 7720'-7732', 7778'-7786', 7809'-7817' was treated with a sand-water fracturing process on April 8, 1970. The Dakota Formation was shut-in on April 9, 1970, and after being shut-in for eight (8) days, the Dakota Formation was tested on April 17, 1970,

August 3, 1970

and following a three (3) hour blow-down period gauged 5796 MCF/D through a 3/4" choke and 6129 MCF/D by the calculated absolute open-flow method, with an SIPC of 2692 psia and an SIPT of 2701 psia. The spacing unit for this well is described as the E/2 of Section 27, Township 28 North, Range 6 West, containing 320.00 acres.

The SE/4 of Section 27 was included in the San Juan 28-6 Unit Sixth Expanded Participating Area of the Dakota Formation, effective October 1, 1963, and the NE/4 of Section 27 was included in the San Juan 28-6 Unit Ninth Expanded Participating Area of the Dakota Formation, effective December 1, 1965. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

The San Juan 28-6 Unit #150 Well is located 1160' from the North line and 1750' from the East line of Section 35, Township 28 North, Range 6 West, N.M.P.M. This well was spudded on April 19, 1970, and completed on April 30, 1970, at a total depth of 7844'. The Dakota Formation in the intervals between 7602'-7622', 7720'-7728', 7756'-7760', 7774'-7778', 7796'-7804' was treated with a sand-water fracturing process on April 29, 1970. The Dakota Formation was shut-in on April 30, 1970, and after being shut-in for eleven (11) days, the Dakota Formation was tested on May 11, 1970, and following a three (3) hour blow-down period gauged 4789 MCF/D through a 3/4" choke and 5003 MCF/D by the calculated absolute open-flow method, with an SIPC of 2599 psia and an SIPT of 2414 psia. The spacing unit for this well is described as the N/2 of Section 35, Township 28 North, Range 6 West, containing 320.00 acres.

This spacing unit was included in the San Juan 28-6 Unit Sixth Expanded Participating Area of the Dakota Formation, effective October 1, 1963, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

The San Juan 28-6 Unit #151 Well is located 1650' from the North line and 1650' from the East line of Section 34, Township 28 North, Range 6 West, N.M.P.M. This well was spudded on April 30, 1970, and completed on May 11, 1970, at a total depth of 7861'. The Dakota Formation in the intervals between 7609'-7621', 7632'-7638', 7704'-7716', 7742'-7754', 7766'-7772', 7786'-7792', 7802'-7808' was treated with a sand-water fracturing process on May 10, 1970.

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

August 3, 1970

The Dakota Formation was shut-in on May 12, 1970, and after being shut-in for eight (8) days, the Dakota Formation was tested on May 20, 1970, and following a three (3) hour blow-down period gauged 4953 MCF/D through a 3/4" choke and 5189 MCF/D by the calculated absolute open-flow method, with an SIPC of 2626 psia and an SIPT of 2377 psia. The spacing unit for this well is described as the N/2 of Section 34, Township 28 North, Range 6 West, containing 320.00 acres.

This spacing unit was included in the San Juan 28-6 Unit Sixth Expanded Participating Area of the Dakota Formation, effective October 1, 1963, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,



Charles Higgins
Supervising Landman
Land Department

CH:DI:sf
SJ 28-6, 4.3

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

SAN JUAN 28-6 UNIT
Working Interest Owners

Atlantic Richfield Company (3) (D)

Beta Development Company (D)

Mr. Tom Bolack

Central National Bank & Trust Company (D)
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company (D)

El Paso Products Company (D)

Mr. T. H. Harrington (D)

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

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

Pan American Petroleum Corporation (3) (D)

Phillips Petroleum Company

Pubco Petroleum Corporation (2) (D)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation (D)

Skelly Oil Company (D)

Southern Petroleum Exploration, Inc. (D)

Tenneco Oil Company (D)

CH:DI:nja
SJ 28-6, 3.0



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

IN REPLY REFER TO:

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May 25, 1970

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 28-6 unit area, Rio Arriba County, New Mexico, proposing the drilling of five wells, was filed with this office on March 2, 1970. After reviewing your plan, we requested that you consider drilling Dakota wells in the following locations:

S $\frac{1}{4}$ sec. 8, T. 27 N., R. 6 W.
S $\frac{1}{4}$ sec. 14, T. 27 N., R. 6 W.
Sec. 12 (frac.), T. 28 N., R. 6 W.

Your letter of April 30 advises that by previous evaluation it was determined that a Dakota well in the S $\frac{1}{4}$ sec. 8 would not return a reasonable profit and that no additional data has become available from new wells drilled in the area to change such determination. Our records show that such determination was made by your letter of September 23, 1965, and that our previous request for the drilling of a protective well in the S $\frac{1}{4}$ sec. 8, T. 27 N., R. 6 W., N.M.P.M., was rescinded by our letter of October 19, 1965. Your letter also states that you should not be required to drill a well in S $\frac{1}{4}$ sec. 14 as it would be the second protective well drilled to protect the San Juan 28-6 unit area from drainage by one offsetting Rincon unit well. Your letter of May 18 states that a well was previously drilled in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, T. 28 N., R. 6 W., to protect the non-standard proration unit consisting of sec. 12 (frac.) and lot 1, SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, T. 28 N., R. 6 W., from drainage.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

70 MAY 28 AM 8 12

IN REPLY REFER TO:

May 25, 1970

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- unit area, Rio Arriba County, New Mexico, proposing the drilling of five wells, was filed with this office on March 2, 1970. After reviewing your plan, we requested that you consider drilling Dakota wells in the following locations:

S $\frac{1}{2}$ sec. 8, T. 27 N., R. 6 W.
S $\frac{1}{2}$ sec. 14, T. 27 N., R. 6 W.
Sec. 12 (frac.), T. 28 N., R. 6 W.

Your letter of April 30 advises that by previous evaluation it was determined that a Dakota well in the S $\frac{1}{2}$ sec. 8 would not return a reasonable profit and that no additional data has become available from new wells drilled in the area to change such determination. Our records show that such determination was made by your letter of September 23, 1965, and that our previous request for the drilling of a protective well in the S $\frac{1}{2}$ sec. 8, T. 27 N., R. 6 W., N.M.P.M., was rescinded by our letter of October 19, 1965. Your letter also states that you should not be required to drill a well in S $\frac{1}{2}$ sec. 14 as it would be the second protective well drilled to protect the San Juan 28- unit area from drainage by one offsetting Rincon unit well. Your letter of May 18 states that a well was previously drilled in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, T. 28 N., R. 6 W., to protect the non-standard proration unit consisting of sec. 12 (frac.) and lot 1. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 11, T. 28 N., R. 6 W., from drainage.

Upon consideration of the information in your letters of April 30 and May 18 with respect to existing conditions, your 1970 plan of development, dated March 2, 1970, proposing the drilling of five Dakota wells in the San Juan 28-0 unit area 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.) CARL C. FRAYWICK
CARL C. FRAYWICK
Acting Oil and Gas Supervisor

cc:

Washington (w/cy plan)

Durango (w/cy plan)

NMIOCC, Santa Fe (ltr. only)

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 4, 1970

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

Attention: Mr. T. W. Bittick

Re: 1970 Drilling Program
San Juan 28-6 Unit,
Rio Arriba County, New
Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1970 providing for the drilling of five Dakota wells in the San Juan 28-6 Unit Area, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

El Paso Natural Gas Company

El Paso, Texas 79999

March 2, 1970

70 MAR 2 1970

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

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

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

Re: San Juan 28-6 Unit
#14-08-001-1051, Rio
Arriba County, New Mexico
1970 DRILLING PROGRAM

Gentlemen:

The 1969 Drilling Program dated September 10, 1969 for the captioned Unit provided for the drilling of the San Juan 28-6 Unit No. 146 Dakota Well by El Paso Natural Gas Company during 1969. The completion of Well No. 146 did not cause an Expansion of the Dakota Participating Area.

With the completion of the above-mentioned well, the total number of wells in the San Juan 28-6 Unit is as follows:

Pictured Cliffs	7
Dual, Pictured Cliffs-Mesaverde	15
Mesaverde, Commercial	71
Mesaverde, Non-Commercial	1
Dual, Mesaverde-Dakota	1
Dakota, Commercial	35
Dakota, Plugged and Abandoned	<u>1</u>
	131

March 2, 1970

El Paso Natural Gas Company, as Unit Operator, hereby submits a Drilling Program providing for the drilling of the following-described wells during the calendar year of 1970:

<u>Well Name and Location</u>	<u>Formation</u>
San Juan 28-6 Unit #147 NE/4 Sec. 29, T-28-N, R-6-W	Dakota
San Juan 28-6 Unit #148 NE/4 Sec. 28, T-28-N, R-6-W	Dakota
San Juan 28-6 Unit #149 NE/4 Sec. 27, T-28-N, R-6-W	Dakota
San Juan 28-6 Unit #150 NE/4 Sec. 35, T-28-N, R-6-W	Dakota
San Juan 28-6 Unit #151 NE/4 Sec. 34, T-28-N, R-6-W	Dakota

El Paso Natural Gas Company intends to drill these wells to the base of the Dakota Formation using rotary tools. Surface casing will be set to the depth of approximately 200' and an intermediate string will be run through the Pictured Cliffs Formation to a depth of approximately 3700', and then a production casing string will be run to the base of the Dakota Formation, which is estimated to be approximately 7900'. 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.

All of the working interest owners have been contacted, and this Drilling Program reflects the desires of the majority of these working interest owners.

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

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

March 2, 1970

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,

T. W. Bittick
Manager
Land Department

TWB:DI:nja
Enclosures
S.J. 28-6 Unit 3.0

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

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

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

The foregoing approvals are for the 1970 Drilling Program for the
San Juan 28-6 Unit #14-08-001-1051, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

El Paso Products Company

Mr. T. H. Harrington

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

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

Pan American Petroleum Corporation (3)

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Southern Petroleum Exploration, Inc.

Tenneco Oil Company

MAIN OFFICE 000

70 MAR 6 AM 8 16

343

March 4, 1970

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1970 Plan of Development for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, proposing the drilling of five Dakota wells.

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

One approved copy of the plan is enclosed.

Very truly yours,

Ted Bilberry, Director
Oil and Gas Department

TB/ML/s
encl.

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

C
O
P
Y

El Paso Natural Gas Company

El Paso, Texas 79999

November 12, 1969

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1969 DRILLING PROGRAM

Gentlemen:

The 1969 Drilling Program for the referenced Unit was approved by the Regulatory Bodies on the dates indicated:

United States Geological Survey	September 24, 1969
Commissioner of Public Lands	September 17, 1969
Oil Conservation Commission	November 3, 1969

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

Yours very truly,



Charles Higgins
Supervising Landman
Land Department

CH:DI:sf
San Juan 28-6, 3.0

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

November 3, 1969

543

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

Attention: Mr. T. W. Bittick

Re: 1969 Drilling Program
San Juan 28-6 Unit,
Rio Arriba County, New
Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1969 Drilling Program providing for the drilling of one Dakota well in the San Juan 28-6 Unit Area, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

C
O
P
Y

SEP 26 1969

Drawer 1857
Roswell, New Mexico 88201

September 24 1969

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1969 plan of development for the San Juan 28-6 unit area, Rio Arriba County, New Mexico, proposing the drilling of one Dakota well, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours.

(ORIG. SIGNED JOHN A. ANDERSON)

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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

El Paso Natural Gas Company

El Paso, Texas 79999

September 19, 1969

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

Commissioner of Public Lands
State of New Mexico
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 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico,
APPLICATION FOR APPROVAL OF THE
EIGHTEENTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION
Effective December 1, 1968

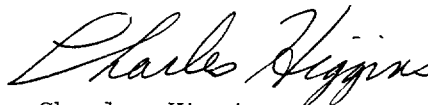
Gentlemen:

The Application for Approval of the Eighteenth Expanded Participating Area of the Dakota Formation dated August 29, 1969, for the referenced Unit was approved by the Regulatory Bodies on the dates indicated below:

United States Geological Survey	- September 15, 1969
Commissioner of Public Lands	- September 2, 1969
Oil Conservation Commission	- September 9, 1969

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

Yours very truly,



Charles Higgins
Supervising Landman
Land Department

CH:DI:ec

cc: Mrs. Pepita O. Jeffus

OCT - 1 1969

543

September 27, 1969

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1969 Plan of Development for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, proposing the drilling of one Dakota well.

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

One approved copy of the plan is enclosed.

Very truly yours,

Ted Hilberry, Director
Oil and Gas Department

TB/ML/s
encl.

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



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

817617
IN REPLY REFER TO:

September 15, 1969

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

Attention: Mr. Charles Higgins

Gentlemen:

The 18th revision of the Dakota participating area for the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, was approved on September 15, 1969, by the Regional Oil and Gas Supervisor, U. S. Geological Survey, effective as of December 1, 1968.

The 18th revision of the Dakota participating area adds 640 acres described as the S $\frac{1}{2}$ sec. 14 and the W $\frac{1}{2}$ sec. 24, T. 27 N., R. 6 W., N.M.P.M., and is based upon the completion of Rincon unit well No. 146 in the SW $\frac{1}{4}$ sec. 23 as a paying well pursuant to the terms of the unit agreement. Rincon unit well No. 146 was tested on December 3, 1968, for a calculated absolute open flow potential of 4,389 MCF of gas per day from the Dakota 7,536 to 7,748 feet.

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

Sincerely yours,

(OFFICIAL) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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

El Paso Natural Gas Company

El Paso, Texas 79999

September 10, 1969

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

Commissioner of Public Lands
State of New Mexico
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 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1969 DRILLING PROGRAM

Gentlemen:

The 1968 Drilling Program for the captioned Unit provided for the drilling of the San Juan 28-6 Unit Nos. 142, 143, 144 and 145 Dakota Wells by El Paso Natural Gas Company during 1968. The completion of Wells Nos. 142 and 144 occasioned the Sixteenth Expansion of the Dakota Participating Area, effective October 1, 1968. The completion of Well No. 143 occasioned the Seventeenth Dakota Expansion, effective November 1, 1968. The completion of Well No. 145 did not cause an Expansion of the Dakota Participating Area.

With the completion of the above-mentioned wells, the total number of wells in the San Juan 28-6 Unit is as follows:

Pictured Cliffs	7
Dual, Pictured Cliffs-Mesaverde	15
Mesaverde, Commercial	71
Mesaverde, Noncommercial	1
Dual, Mesaverde-Dakota	1
Dakota, Commercial	34
Dakota, Plugged and Abandoned	1
	<u>130</u>

El Paso Natural Gas Company

El Paso, Texas 79999

September 10, 1969

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

Commissioner of Public Lands
State of New Mexico
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 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1969 DRILLING PROGRAM

Gentlemen:

The 1968 Drilling Program for the captioned Unit provided for the drilling of the San Juan 28-6 Unit Nos. 142, 143, 144 and 145 Dakota Wells by El Paso Natural Gas Company during 1968. The completion of Wells Nos. 142 and 144 occasioned the Sixteenth Expansion of the Dakota Participating Area, effective October 1, 1968. The completion of Well No. 143 occasioned the Seventeenth Dakota Expansion, effective November 1, 1968. The completion of Well No. 145 did not cause an Expansion of the Dakota Participating Area.

With the completion of the above-mentioned wells, the total number of wells in the San Juan 28-6 Unit is as follows:

Pictured Cliffs	7
Dual, Pictured Cliffs-Mesaverde	15
Mesaverde, Commercial	71
Mesaverde, Noncommercial	1
Dual, Mesaverde-Dakota	1
Dakota, Commercial	34
Dakota, Plugged and Abandoned	1
	<hr/> 130

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

September 10, 1969

El Paso Natural Gas Company, as Unit Operator, hereby submits a Drilling Program providing for the drilling of the following-described well during the calendar year of 1969:

<u>Well Name and Location</u>	<u>Formation</u>
San Juan 28-6 Unit #146 SW/4 Sec. 24, T-27-N, R-6-W	Dakota

El Paso Natural Gas Company intends to drill this well to the base of the Dakota Formation using rotary tools. Surface casing will be set to the depth of approximately 200' and then a full string of production casing will be run to the base of the Dakota Formation, which is estimated to be approximately 7,750', and will be cemented in place in three stages. The casing in the Dakota Formation will then be perforated and the Dakota Formation subjected to a hydraulic fracturing process. The entire hole will be mud drilled and mud will be used in setting the production string of casing when casing is run. Due care will be taken to protect all horizons.


All of the working interest owners have been contacted, and this Drilling Program reflects the desires of the majority of these working interest owners.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of the 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,


T. W. Bittick
Manager
Land Department

TWB:DI:ec
Enclosures

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

DATE: _____

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

DATE: _____

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

DATE: Nov. 3, 1969

The foregoing approvals are for the 1969 Drilling Program for the San Juan 28-6
Unit #14-08-001-1051, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Atlantic Richfield Company (3)

Beta Development Company

Mr. Tom Bolack

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

El Paso Products Company

Mr. T. H. Harrington

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

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

Pan American Petroleum Corporation (3)

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company

Southern Petroleum Exploration, Inc.

Tenneco Oil Company

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

September 9, 1969

C
O
P
Y

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

Attention: Mr. Charles Higgins

Re: Eighteenth Expanded
Participating Area,
Dakota Formation

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Eighteenth Expanded Participating Area for the Dakota Formation for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

September 2, 1969

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
EIGHTEENTH EXPANDED PARTICIPATING
Area, Dakota Formation
Effective December 1, 1968

ATTENTION: Mr. Charles Higgins

Gentlemen:

The Commissioner of Public Lands has this date approved your application for the Eighteenth Expanded Participating Area, Dakota Formation, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are retaining two copies and handing six approved copies to the Oil Conservation Commission, requesting them to forward five copies to the United States Geological Survey, Roswell, New Mexico.

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

August 29, 1969

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico,
APPLICATION FOR APPROVAL OF THE
EIGHTEENTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION,
Effective December 1, 1968

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Eighteenth Expanded Participating Area for the Dakota Formation, to wit:

EIGHTEENTH EXPANDED PARTICIPATING AREA - Effective December 1, 1968

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 27 North, Range 6 West, N.M.P.M.</u>	
Section 14: S/2	
Section 24: W/2	640.00

This proposed Eighteenth Expanded Participating Area for the Dakota Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the Rincon Unit #146 Well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

August 29, 1969

The Rincon #146 Well, located 1620' from the North line and 1550' from the East line of Section 23, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on October 15, 1968, and was completed November 9, 1968, at a total depth of 7800'. The Dakota Formation in the intervals between 7536' - 7548', 7560' - 7566', 7602' - 7608', 7632' - 7644', 7688' - 7694', 7708' - 7714', 7742' - 7748' was treated with a sand-water fracturing process. The well was shut-in on November 10, 1968, and after being shut-in for twenty-three (23) days the Dakota Formation was tested on December 3, 1968, and after a three (3) hour blow-down period the well gauged 3727 MCFGPD through a 3/4" choke and 4389 MCFGPD by the calculated absolute open-flow method with an SIPT of 2584 psia and an SIPC of 2606 psia.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Eighteenth Expanded Participating Area of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "B"

Geological Report on the Eighteenth Expanded Participating Area of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-6 Subsurface Structure Contour Map
Figure No. 2: San Juan 28-6 Isopachous Map

EXHIBIT "D"

Schedule of Dakota Gas Production

Attached hereto is Schedule XIX that shows the proposed Eighteenth Expanded Participating Area for the Dakota Formation in the San Juan 28-6 Unit Area. This Schedule describes the Expanded Participating Area, shows percentage of unitized substances allocated to each unitized tract and the percentage of ownership in each tract.

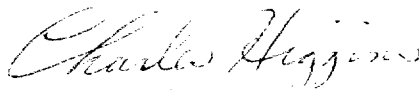
Mr. John A. Anderson, et al
Page 3

August 29, 1969

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

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

Yours very truly,



Charles Higgins
Supervising Landman
Land Department

CH:DI:sf
Enclosures
S.J. 28-6, 4.3

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

RECEIVED
LAND DEPARTMENT
AUG 29 1969
SANTA FE, N.M.

APPROVED: _____

DATE: _____

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

APPROVED: Alex J. Murray _____

DATE: 9-2-69

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

APPROVED: W. G. Carter _____

DATE: 9-2-69

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

The foregoing approvals are for the Eighteenth Expanded Participating Area of the
Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba County,
New Mexico.

RECEIVED
SAN JUAN COUNTY
SEP 11 1969

SAN JUAN 28-6 UNIT
Working Interest Owners

Atlantic Richfield Company (3) (D)

Beta Development Company (D)

Mr. Tom Bolack

Central National Bank & Trust Company (D)
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company (D)

El Paso Products Company (D)

Mr. T. H. Harrington (D)

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

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

Pan American Petroleum Corporation (3) (D)

Phillips Petroleum Company

Pubco Petroleum Corporation (2) (D)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation (D)

Skelly Oil Company (D)

Southern Petroleum Exploration, Inc. (D)

Tenneco Oil Company (D)

RECEIVED
APR 23 9 30 AM '69
SAN JUAN, N.M.

El Paso Natural Gas Company

El Paso, Texas

August 29, 1969

RECEIVED
AUG 29 1969

540

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

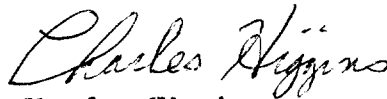
Re: San Juan 28-6 Unit #14-08-001-1051,
Rio Arriba County, New Mexico,
APPLICATION FOR APPROVAL OF THE
EIGHTEENTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION,
Effective December 1, 1968

Gentlemen:

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

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

Yours very truly,



Charles Higgins
Supervising Landman
Land Department

CH:DI:sf
Enclosures

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

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

COPY

El Paso Natural Gas Company

El Paso, Texas 79999

May 7, 1969

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
Approval of the Sixteenth and
Seventeenth Expanded Participating
Area, Dakota Formation, Effective
October 1, 1968 and November 1, 1968,
Respectively

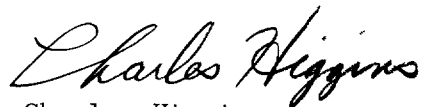
Gentlemen:

The Sixteenth and Seventeenth Expanded Participating Area, Dakota Formation, San Juan 28-6 Unit, was approved by the regulatory bodies on the dates set out below:

United States Geological Survey	April 30, 1969
Commissioner of Public Lands	March 27, 1969
Oil Conservation Commission	March 31, 1969

Copies of this letter are being sent to all the working interest owners of the San Juan 28-6 Unit.

Yours very truly,



Charles Higgins
Supervising Landman
Land Department

CH:DI:ec
SJ 28-6, 4.3

cc: Mrs. Pepita O. Jeffus



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1257
Roswell, New Mexico 88201

APR 8 2
MAY

IN REPLY REFER TO:

April 30 1969

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

Attention: Mr. Charles Higgins

Gentlemen:

The sixteenth and seventeenth revisions of the Dakota participating area for the San Juan 28-6 unit agreement Rio Arriba County, New Mexico, No. 14-08-901-1051, were approved on April 30, 1969, by the Regional Oil and Gas Supervisor, U. S. Geological Survey, effective as of October 1 and November 1, 1968, respectively.

By the sixteenth revision the Dakota participating area is enlarged from 17,608.13 acres to 18,568.13 acres based on the completion of unit wells Nos. 142 and 144. Unit well No. 142, located in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 28 N., R. 6 W., was completed on October 10, 1968, for 5,897 MCFGPD in the Dakota interval from 7,540 feet to 7,727 feet. Unit well No. 144, located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 17, T. 28 N., R. 6 W., was completed on October 23, 1968, for 7,719 MCFGPD in the Dakota interval from 7,683 feet to 7,888 feet.

By the seventeenth revision the Dakota participating area is enlarged from 18,568.13 acres to 18,888.13 acres based on the completion of unit well No. 143. Unit well No. 143, located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, T. 28 N., R. 6 W., was completed on November 19, 1968, for 6,694 MCFGPD in the Dakota interval from 7,594 feet to 7,798 feet.

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

Sincerely yours

(ORIG. SGD) JOHN A. ALDERSON

JOHN A. ALDERSON
Regional Oil and Gas Supervisor

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

March 31, 1969

Handwritten initials: JLO

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

Attention: Mr. Charles Higgins

Re: Sixteenth and Seventeenth
Expanded Dakota Participating
Area, San Juan 28-6 Unit, Rio
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Sixteenth and Seventeenth Expanded Participating Areas, Dakota Formation for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

C
O
P
Y

March 27, 1969

El Paso Natural Gas Company
P. O. Box 1482
El Paso, Texas

Re: San Juan 28-6 Unit
Sixteenth and Seventeenth
Expanded Participating Areas-
Dakota Formation

ATTENTION: Mr. Charles Higgins

Gentlemen:

The Commissioner of Public Lands has this date approved your application for the Sixteenth and Seventeenth Expanded Participating Areas, Dakota Formation, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

We are retaining two copies and handing six approved copies to the Oil Conservation Commission, requesting them to forward five copies to the United States Geological Survey.

Very truly yours,

ALEX J. ARMISTO
COMMISSIONER OF PUBLIC LANDS

BY:
Ted Bilberry, Director
Oil and Gas Department

AJA/TB/ML/s
cc: USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico

El Paso Natural Gas Company

El Paso, Texas 79999

March 26, 1969

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
NOTICE OF COMPLETION OF ADDITIONAL
WELLS, Dakota Formation

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Dakota Formation has been completed upon acreage committed to the Unit. This well is as follows:

The San Juan 28-6 Unit #145 Well is located 1486' from the North line and 1090' from the East line of Section 19, Township 28 North, Range 6 West, N.M.P.M. This well was spudded on September 28, 1968, and completed on October 26, 1968, at a total depth of 7880'. The Dakota Formation in the intervals between 7634'-7640', 7650'-7662', 7749'-7757', 7796'-7802', 7829'-7835', was treated with a sand-water fracturing process on October 25, 1968. The Dakota Formation was shut-in on October 26, 1968, and after being shut-in for eighteen (18) days, the Dakota Formation was tested on November 13, 1968, and following a three (3) hour blow-down period gauged 5516 MCFGPD through a 3/4" choke and 7179 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2701 psia and an SIPT of 2692 psia. The spacing Unit for this well is described as the E/2 of Section 19, Township 28 North, Range 6 West, containing 320.00 acres.

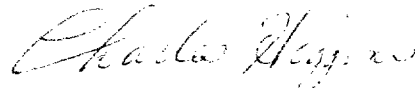
Mr. John A. Anderson
Commissioner of Public Lands
Oil Conservation Commission
Page Two

March 26, 1969

This spacing Unit was included in the San Juan 28-6 Unit Sixteenth Expanded Participating Area of the Dakota Formation, effective October 1, 1968, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,



Charles Higgins
Supervising Landman
Land Department

CH:DI:ec
SJ 28-6, 4.3

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

SAN JUAN 28-6 UNIT
Working Interest Owners

Beta Development Company

Mr. Tom Bolack

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

El Paso Products Company

Mr. T. H. Harrington

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

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

Pan American Petroleum Corporation (3)

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company
Denver, Colorado

Skelly Oil Company
Tulsa, Oklahoma

Sinclair Oil Corporation (3)

Southern Petroleum Exploration, Inc.

Tenneco Oil Company
Denver, Colorado (C. W. Nance)

Tenneco Oil Company
Denver, Colorado (J. P. Wasinger)

El Paso Natural Gas Company

El Paso, Texas 79999

March 26, 1969

69 MAR 27 11 00 AM

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

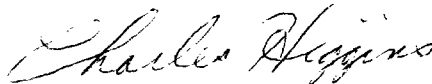
Re: San Juan 28-c Unit #14-08-001-1051
Rio Arriba County, New Mexico
SIXTEENTH AND SEVENTEENTH EXPANDED
PARTICIPATING AREAS OF THE DAKOTA
FORMATION

Gentlemen:

Enclosed for your approval are eight copies of the Sixteenth and Seventeenth revisions of the Participating Area for the Dakota Formation covering the above described Unit.

If these revisions meet with your approval, please execute all copies and forward them to the Oil Conservation Commission for their approval and execution. After the revisions have been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two file copies and the Oil Conservation Commission should retain one file copy, and five copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for approval. After these revisions have been approved and signed by the United States Geological Survey, one copy thereof should be returned to El Paso.

Yours very truly,



Charles Higgins
Supervising Landman
Land Department

CH:DI:ec
Enclosures

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

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

COPY

El Paso Natural Gas Company

El Paso, Texas 79999

March 26, 1969

RECEIVED
MAR 27 5 50 AM '69

STATE LAND OFFICE
SANTA FE, N. M.

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE SIXTEENTH
AND SEVENTEENTH EXPANDED PARTICIPATING
AREAS OF THE DAKOTA FORMATION
Effective October 1, 1968 and
November 1, 1968, Respectively

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Sixteenth and Seventeenth Expanded Participating Areas for the Dakota Formation, to wit:

SIXTEENTH EXPANDED PARTICIPATING AREA - Effective October 1, 1968

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 6 West, N.M.P.M.</u>	
Section 18: E/2	
Section 19: E/2	
Section 29: E/2	960.00

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #142 Well, located 1485' from the South line and 1180' from the West line of Section 21, Township 28

March 26, 1969

North, Range 6 West, Rio Arriba County, New Mexico, was spudded on September 15, 1968, and was completed September 29, 1968, at a total depth of 7775'. The Dakota Formation in the intervals between 7540'-7550', 7560'-7570', 7640'-7655', 7684'-7692', 7704'-7712', 7722'-7727' was treated with a sand-water fracturing process. The well was shut-in on September 29, 1968, and after being shut-in for eleven (11) days the Dakota Formation was tested on October 10, 1968, and after a three (3) hour blow-down period the well gauged 4773 MCFGPD through a 3/4" choke and 5897 MCFGPD by the calculated absolute open-flow method with a SIPT of 2711 psia and a SIPC of 2709 psia.

The San Juan 28-6 Unit #144 Well, located 850' from the South line and 1750' from the West line of Section 17, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on September 26, 1968, and was completed October 13, 1968, at a total depth of 7934'. The Dakota Formation in the intervals between 7683'-7691', 7694'-7706', 7716'-7724', 7794'-7814', 7840'-7848', 7862'-7870', 7880'-7888' was treated with a sand-water fracturing process. The well was shut-in on October 13, 1968, and after being shut-in for ten (10) days the Dakota Formation was tested on October 23, 1968, and after a three (3) hour blow-down period the well gauged 5807 MCFGPD through a 3/4" choke and 7719 MCFGPD by the calculated absolute open-flow method with a SIPT of 2728 psia and a SIPC of 2721 psia.

SEVENTEENTH EXPANDED PARTICIPATING AREA - Effective November 1, 1968

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 6 West, N.M.P.M.</u>	
<u>Section 29: W/2</u>	320.00

These lands were proven to be productive by the following:

The San Juan 28-6 Unit #143 Well, located 1550' from the South line and 1600' from the West line of Section 20, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on October 26, 1968, and was completed on November 8, 1968, at a total depth of 7855'. The Dakota Formation in the intervals between 7596'-7604', 7614'-7626', 7712'-7728', 7771'-7779', 7790'-7798' was treated with a sand-water fracturing process. The well was shut-in on November 9, 1968, and after being shut-in for ten (10) days the Dakota Formation was tested on November 19, 1968, and after a three (3) hour blow-down period the well gauged 5276 MCFGPD through a 3/4" choke and 6694 MCFGPD by the calculated absolute open-flow method with an SIPT of 2738 psia and an SIPC of 2742 psia.

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

March 26, 1969

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Sixteenth and Seventeenth Expanded Participating Areas of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "B"

Geological Report on the Sixteenth and Seventeenth Expanded Participating Areas of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-6 Subsurface Structure Contour Map.
Figure No. 2: San Juan 28-6 Isopachous Map.

EXHIBIT "D"

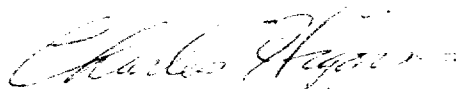
Schedule of Dakota Gas Production

Attached hereto are Schedules XVII and XVIII that show the proposed Sixteenth and Seventeenth Expanded Participating Areas for the Dakota Formation in the San Juan 28-6 Unit Area. These Schedules describe the Expanded Participating Areas, show percentage of unitized substances allocated to each unitized tract and the percentage of ownership in each tract.

If these Sixteenth and Seventeenth Expanded Participating Areas of the Dakota Formation meet with your approval, please indicate such approval in the space provided and return an approved copy thereof for our files.

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

Yours very truly,



Charles Higgins
Supervising Landman
Land Department

CH:DI:ec
Enclosures
SJ 28-6, 4.3

cc: Mrs. Pepita O. Jeffus

APPROVED: _____
Oil & Gas Supervisor
United States Geological Survey
Subject to like approval by the appropriate
State Officials.

DATE: _____

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

DATE: March 27, 1969

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

DATE: March 31, 1969

The foregoing approvals are for the Sixteenth and Seventeenth Expanded Participating Areas of the Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Beta Development Company

Mr. Tom Bolack

Central National Bank & Trust Company
of Des Moines, Trustee under the Will of
Gerald F. Harrington, Deceased

Continental Oil Company

El Paso Products Company

Mr. T. H. Harrington

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

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

Pan American Petroleum Corporation (3)

Phillips Petroleum Company

Pubco Petroleum Corporation (2)

Mr. H. K. Riddle

Rincon Oil & Gas Corporation

Skelly Oil Company
Denver, Colorado

Skelly Oil Company
Tulsa, Oklahoma

Sinclair Oil Corporation (3)

Southern Petroleum Exploration, Inc.

Tenneco Oil Company
Denver, Colorado (C. W. Nance)

Tenneco Oil Company
Denver, Colorado (J. P. Wasinger)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

243

January 26, 1968

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

Attention: Mr. Charles Higgins

Re: Fourteenth and Fifteenth
Expansions, Dakota Participating
Area, San Juan 28-6 Unit, Rio
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Fourteenth and Fifteenth Expanded Participating Areas, Dakota Formation, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

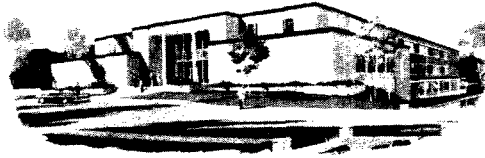
A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/esr

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

Commissioner of Public Lands
Santa Fe, New Mexico

State of New Mexico



Commissioner of Public Lands



GUYTON B. HAYS
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

January 23, 1968

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

1968 JAN 25 PM 3 36

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
FOURTEENTH & FIFTEENTH
EXPANDED PARTICIPATING AREAS
Dakota Formation

ATTENTION: Mr. Charles Higgins

Gentlemen:

The Commissioner of Public Lands has this date approved your application for the Fourteenth and Fifteenth Expanded Participating Areas, Dakota Formation, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

We are retaining two copies and handing six approved copies to the Oil Conservation Commission, requesting them to forward five copies to the United States Geological Survey.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS
BY:
Eddie Lopez, Supervisor
Unit Division

GBH/TB/EL/s

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

El Paso Natural Gas Company

RECEIVED

El Paso, Texas 79999

January 17, 1968
STATE LAND DEPARTMENT
SANTA FE, N. M.

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

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

100 JAN 25 PM 3 30

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
FOURTEENTH AND FIFTEENTH EXPANDED
PARTICIPATING AREAS OF THE DAKOTA
FORMATION, Effective September 1,
and October 1, 1967, Respectively

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Fourteenth and Fifteenth Expanded Participating Areas for the Dakota Formation, to wit:

FOURTEENTH EXPANDED PARTICIPATING AREA - Effective September 1, 1967

Description of Lands

Acres

Township 28 North, Range 6 West, N.M.P.M.

Section 8: Lots 1, 2, S/2 SE/4

Section 9: Lot 4, SW/4 SW/4

Section 16: W/2

Section 17: All

Section 21: W/2

1,493.61

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #125 Well, located 1740' from the North line and 1190' from the East line of Section 21, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on August 14, 1967, and was completed September 4, 1967, at a total depth of 7820'. The Dakota Formation in the intervals between 7530'-7542', 7585'-7597', 7636'-7648', 7710'-7734' was treated with a sand-water fracturing process. The well was shut-in on September 5, 1967, and after being shut-in for eight (8) days the Dakota Formation was tested on September 13, 1967, and after a three (3) hour blow-down period the well gauged 5,663 MCFGPD through a 3/4" choke and 7,350 MCFGPD by the calculated absolute open-flow method with a SIPT of 2,722 psia and a SIPC of 2,727 psia.

The San Juan 28-6 Unit #126 Well, located 800' from the South line and 1,700' from the West line of Section 16, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on August 17, 1967, and was completed August 30, 1967, at a total depth of 7910'. The Dakota Formation in the intervals between 7634'-7646', 7666'-7672', 7742'-7758', 7818'-7834', was treated with a sand-water fracturing process. The well was shut-in on August 30, 1967, and after being shut-in for eight (8) days the Dakota Formation was tested on September 7, 1967, and after a three (3) hour blow-down period the well gauged 3,578 MCFGPD through a 3/4" choke and 4,091 MCFGPD by the calculated absolute open-flow method with a SIPT of 2,686 psia and a SIPC of 2,682 psia.

The San Juan 28-6 Unit #128 Well, located 1800' from the North line and 1150' from the East line of Section 17, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on August 31, 1967, and was completed September 13, 1967, at a total depth of 8072'. The Dakota Formation in the intervals between 7844'-7854', 7870'-7875', 7948'-7958', 7996'-8001', 8018'-8038', was treated with a sand-water fracturing process. The well was shut-in on September 14, 1967, and after being shut-in for seven (7) days the Dakota Formation was tested on September 21, 1967, and after a three (3) hour blow-down period the well gauged 4,495 MCFGPD through a 3/4" choke and 5,429 MCFGPD by the calculated absolute open-flow method with a SIPT of 2,669 psia and a SIPC of 2,668 psia.

FIFTEENTH EXPANDED PARTICIPATING AREA - Effective October 1, 1967

Description of Lands

Acres

Township 28 North, Range 6 West, N.M.P.M.

Section 20: All

Section 28: W/2

960.00

These lands were proven to be productive by the following:

The San Juan 28-6 Unit #127 Well, located 1650' from the North line and 1130' from the East line of Section 20, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on September 5, 1967, and was completed on September 30, 1967, at a total depth of 7685'. The Dakota Formation in the intervals between 7446'-7458', 7545'-7557', 7590'-7596', 7610'-7622', 7638'-7656' was treated with a sand-water fracturing process. The well was shut-in on October 1, 1967, and after being shut-in for seventeen (17) days the Dakota Formation was tested on October 18, 1967, and after a three (3) hour blow-down period the well gauged 6,854 MCFGPD through a 3/4" choke and 9,367 MCFGPD by the calculated absolute open-flow method with an SIPT of 2,762 psia and an SIPC of 2,762 psia.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Fourteenth and Fifteenth Expanded Participating Areas of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "B"

Geological Report on the Fourteenth and Fifteenth Expanded Participating Areas of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-6 Subsurface Structure Contour Map.
Figure No. 2: San Juan 28-6 Isopachous Map.

EXHIBIT "D"

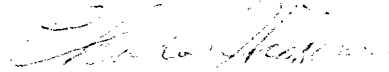
Schedule of Dakota Gas Production

Attached hereto are Schedules XV and XVI that show the proposed Fourteenth and Fifteenth Expanded Participating Areas for the Dakota Formation in the San Juan 28-6 Unit Area. These Schedules describe the Expanded Participating Areas, show percentage of unitized substances allocated to each unitized tract and the percentage of ownership in each tract.

If these Fourteenth and Fifteenth Expanded Participating Areas of the Dakota Formation meet with your approval, please indicate such approval in the space provided and return an approved copy thereof for our files.

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

Yours very truly,



Charles Higgins
Supervising Landman
Land Department

CH:CTR:psr

Enclosures

San Juan 28-7 Unit - 4.3

APPROVED: _____
Director, United States Geological Survey
Subject to like approval by the appropriate
State Officials.

DATE: _____

APPROVED: *Stephen B. Hays*
Commissioner of Public Lands
Subject to like approval by the United
States Geological Survey and the Oil
Conservation Commission.

DATE: *January 23, 1968*

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

DATE: *1-26-68*

The foregoing approvals are for the Fourteenth and Fifteenth Expanded
Participating Areas of the Dakota Formation for the San Juan 28-6 Unit,
#14-08-001-1051, Rio Arriba County, New Mexico.

El Paso Natural Gas Company

El Paso, Texas 79999

September 12, 1967

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

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

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

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL
WELL

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Dakota Formation has been completed upon acreage committed to this Unit. This well is as follows:

The San Juan 28-6 Unit #101 Well, located 1650' from the North line and 990' from the East line of Section 14, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded on July 26, 1967, and completed on August 16, 1967, at a total depth of 7810'. The Dakota Formation in the intervals between 7532'-7540', 7578'-7590', 7626'-7638', 7670'-7678' and 7710'-7726' was treated with a sand-water fracturing process. This well was shut-in on August 17, 1967, and after being shut-in for eleven (11) days, the Dakota Formation was tested on August 28, 1967, and following a three (3) hour blow-down period gauged 3,690 MCFGPD through a 3/4" choke and 4,104 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2,818 psia and an SIPC of 2,818 psia. The committed spacing unit upon which this well is located is described as the E/2 of Section 14, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres.

87 SEP 18 1967

September 12, 1967

The spacing unit for the #101 Well was included in the San Juan 28-6 Second Expanded Participating Area for the Dakota Formation, effective January 1, 1962, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,

EL PASO NATURAL GAS COMPANY

By Charles Higgins
Charles Higgins *CH*
Assistant Supervising Landman
Land Department

CH:CTR:vjh

San Juan 28-6 Unit 4.3
NM-6526

Attachment

DAKOTA PARTICIPATING AREA
SAN JUAN 28-6 UNIT WORKING INTEREST OWNERS

Beta Development Company
P. O. Box 1659
Midland, Texas 79701

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico 87401

Continental Oil Company
Attention: Mr. H. D. Haley
P. O. Box 1621
Durango, Colorado 81302

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

Estate of G. F. Harrington
Central National Bank & Trust
Co. of Des Moines, Iowa, Trustee
& Executor
5th and Locust Streets
Des Moines, Iowa 50309

Mr. T. F. Harrington
c/o T. H. Harrington
P. O. Box 4026, Station "A"
Albuquerque, New Mexico 87106

Pubco Petroleum Corporation (2)
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 1419
Albuquerque, New Mexico 87103

Beta Development Company
Attention: Mr. John Hampton
234 Petroleum Club Plaza
Farmington, New Mexico 87401
(Field Operations and Costs)

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

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

Pan American Petroleum Corporation (3)
Attention: Mr. T. M. Curtis
P. O. Box 480
Farmington, New Mexico 87401

Skelly Oil Company
Attention: Mr. Wm. R. Kendall
District Exploration Manager
Lincoln Tower Building
1860 Lincoln Street
Denver, Colorado 80203

Rincon Oil & Gas Corporation
1126 Mercantile Securities Building
Dallas, Texas 75201

Skelly Oil Company
Attention: Mr. Barton W. Ratliff
Skelly Building
Tulsa, Oklahoma 74102

Sinclair Oil & Gas Company (3)
Attention: Mr. S. K. Van Steenberg
Attention: Mr. W. A. Walther, Jr.
501 Lincoln Tower Building
1860 Lincoln Street
Denver, Colorado 80203

Mr. Forrest B. Miller and
Mrs. Mabelle M. Miller
1224 Lois Street
P. O. Box 1445
Kerrville, Texas 78028

Mrs. Catherine B. McElvain
Individually and as Executrix of the
Estate of T. H. McElvain, Deceased
Box 2148
Santa Fe, New Mexico 87501

Mr. H. K. Riddle
Rt. 5, Box 5466
Albuquerque, New Mexico 87112

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

El Paso Natural Gas Company

El Paso, Texas 79999

September 7, 1967

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

Commissioner of Public Lands
State of New Mexico
Post Office 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 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL
WELL

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Dakota Formation has been completed upon acreage committed to this Unit. This well is as follows:

The San Juan 28-6 Unit #137 Well, located 790' from the South line and 1450' from the West line of Section 14, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded on July 21, 1967, and completed on August 11, 1967, at a total depth of 7850'. The Dakota Formation in the intervals between 7582'-7590', 7608'-7616', 7634'-7642', 7680'-7696' and 7764'-7780' was treated with a sand-water fracturing process. This well was shut-in on August 11, 1967, and after being shut-in for ten (10) days, the Dakota Formation was tested on August 21, 1967, and following a three (3) hour blow-down period gauged 4,389 MCFGPD through a 3/4" choke and 5,236 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2,699 psia and an SIPC of 2,701 psia. The committed spacing unit upon which this well is located is described as the W/2 of Section 14, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres.

September 7, 1967

The spacing unit for the #137 Well was included in the San Juan 28-6 Second Expanded Participating Area for the Dakota Formation, effective January 1, 1962, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,

EL PASO NATURAL GAS COMPANY

By


Charles Higgins

Assistant Supervising Landman
Land Department

CH:CTR:sb

San Juan 28-6 Unit 4.3
NM-6526

Attachment

DAKOTA PARTICIPATING AREA
SAN JUAN 28-6 UNIT WORKING INTEREST OWNERS

Beta Development Company
P. O. Box 1659
Midland, Texas 79701

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico 87401

Continental Oil Company
Attention: Mr. H. D. Haley
P. O. Box 1621
Durango, Colorado 81302

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

Estate of G. F. Harrington
Central National Bank & Trust
Co. of Des Moines, Iowa, Trustee
& Executor
5th and Locust Streets
Des Moines, Iowa 50309

Mr. T. F. Harrington
c/o T. H. Harrington
P. O. Box 4026, Station "A"
Albuquerque, New Mexico 87106

Pubco Petroleum Corporation (2)
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 1419
Albuquerque, New Mexico 87103

Beta Development Company
Attention: Mr. John Hampton
234 Petroleum Club Plaza
Farmington, New Mexico 87401
(Field Operations and Costs)

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

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

Pan American Petroleum Corporation (3)
Attention: Mr. T. M. Curtis
P. O. Box 480
Farmington, New Mexico 87401

Skelly Oil Company
Attention: Mr. Wm. R. Kendall
District Exploration Manager
Lincoln Tower Building
1860 Lincoln Street
Denver, Colorado 80203

Rincon Oil & Gas Corporation
1126 Mercantile Securities Building
Dallas, Texas 75201

Skelly Oil Company
Attention: Mr. Barton W. Ratliff
Skelly Building
Tulsa, Oklahoma 74102

Sinclair Oil & Gas Company (3)
Attention: Mr. S. K. Van Steenberg
Attention: Mr. W. A. Walther, Jr.
501 Lincoln Tower Building
1860 Lincoln Street
Denver, Colorado 80203

Mr. Forrest B. Miller and
Mrs. Mabelle M. Miller
1224 Lois Street
P. O. Box 1445
Kerrville, Texas 78028

Mrs. Catherine B. McElvain
Individually and as Executrix of the
Estate of T. H. McElvain, Deceased
Box 2148
Santa Fe, New Mexico 87501

Mr. H. K. Riddle
Rt. 5, Box 5466
Albuquerque, New Mexico 87112

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

El Paso Natural Gas Company

El Paso, Texas 79999

August 29, 1967

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

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

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

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL
WELLS

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that three (3) additional wells capable of producing unitized substances in paying quantities from the Dakota Formation have been completed upon acreage committed to this Unit. These wells are as follows:

1. The San Juan 28-6 Unit #106 Well, located 1750' from the North line and 1650' from the East line of Section 13, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded on July 9, 1967, and completed on July 25, 1967, at a total depth of 8044'. The Dakota Formation in the intervals between 7792'-7804'; 7882'-7894'; 7928'-7940'; and 7964'-7976' was treated with a sand-water fracturing process. This well was shut-in on July 26, 1967, and after being shut-in for eight (8) days, the Dakota Formation was tested on August 3, 1967, and following a three (3) hour blow-down period gauged 4,198 MCFGPD through a 3/4" choke and 4,992 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2,682 psia and an SIPC of 2,680 psia. The committed spacing unit upon which this well is located is described as the N/2 of Section 13, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres.

August 29, 1967

The spacing unit for the #106 Well was included in the San Juan 28-6 Unit Initial Participating Area for the Dakota Formation, effective December 7, 1959, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

2. The San Juan 28-6 Unit #136 Well, located 990' from the South line and 990' from the East line of Section 11, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded on June 10, 1967, and completed on July 8, 1967, at a total depth of 8,121'. The Dakota Formation in the intervals between 7792'-7800', 7836'-7844', 7880'-7896', 7926'-7934', 7962'-7970', and 8020'-8036', was treated with a sand-water fracturing process. This well was shut-in on July 9, 1967, and after being shut-in for ten (10) days, the Dakota Formation was tested on July 19, 1967, and following a three (3) hour blow-down period gauged 3,137 MCFGPD through a 3/4" choke and 3,445 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2,735 psia and an SIPC of 2,725 psia. The committed spacing unit upon which this well is located is described as the E/2 E/2 Section 11, and All Section 12, Township 28 North, Range 6 West, N.M.P.M., containing 353.10 acres.

The spacing unit for the #136 Well was included in the San Juan 28-6 Unit Second Expanded Participating Area for the Dakota Formation, effective January 1, 1962, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

3. The San Juan 28-6 Unit #138 Well, located 1,450' from the North line and 1,650' from the East line of Section 23, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded on June 29, 1967, and completed on July 20, 1967, at a total depth of 7,845'. The Dakota Formation in the intervals between 7592'-7600', 7648'-7656', 7690'-7706', 7740'-7744', and 7778'-7794', was treated with a sand-water fracturing process. This well was shut-in on July 20, 1967, and after being shut-in for fourteen (14) days, the Dakota Formation was tested on August 3, 1967, and following a three (3) hour blow-down period gauged 4,819 MCFGPD through a 3/4" choke and 5,906 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2,764 psia and an SIPC of 2,752 psia. The committed spacing unit upon which this well is located is described as the E/2 of Section 23, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres.

The spacing unit for the #138 Well was included in the San Juan 28-6 Unit Second Expanded Participating Area for the Dakota Formation, effective

August 29, 1967

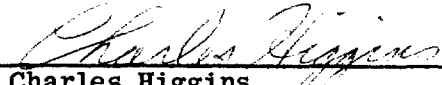
January 1, 1962, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,

EL PASO NATURAL GAS COMPANY

By


Charles Higgins

Assistant Supervising Landman
Land Department

CH:CTR:sb

San Juan 28-6 Unit 4.3
NM-138, 305, 2308, 6525,
NM-6612

Attachment

DAKOTA PARTICIPATING AREA
SAN JUAN 28-6 UNIT WORKING INTEREST OWNERS

Beta Development Company
P. O. Box 1659
Midland, Texas 79701

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico 87401

Continental Oil Company
Attention: Mr. H. D. Haley
P. O. Box 1621
Durango, Colorado 81302

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

Estate of G. F. Harrington
Central National Bank & Trust
Co. of Des Moines, Iowa, Trustee
& Executor
5th and Locust Streets
Des Moines, Iowa 50309

Mr. T. F. Harrington
c/o T. H. Harrington
P. O. Box 4026, Station "A"
Albuquerque, New Mexico 87106

Pubco Petroleum Corporation (2)
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 1419
Albuquerque, New Mexico 87103

Beta Development Company
Attention: Mr. John Hampton
234 Petroleum Club Plaza
Farmington, New Mexico 87401
(Field Operations and Costs)

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

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

Pan American Petroleum Corporation (3)
Attention: Mr. T. M. Curtis
P. O. Box 480
Farmington, New Mexico 87401

Skelly Oil Company
Attention: Mr. Wm. R. Kendall
District Exploration Manager
Lincoln Tower Building
1860 Lincoln Street
Denver, Colorado 80203

Rincon Oil & Gas Corporation
1126 Mercantile Securities Building
Dallas, Texas 75201

Skelly Oil Company
Attention: Mr. Barton W. Ratliff
Skelly Building
Tulsa, Oklahoma 74102

Sinclair Oil & Gas Company (3)
Attention: Mr. S. K. Van Steenbergh
Attention: Mr. W. A. Walther, Jr.
501 Lincoln Tower Building
1860 Lincoln Street
Denver, Colorado 80203

Mr. Forrest B. Miller and
Mrs. Mabelle M. Miller
1224 Lois Street
P. O. Box 1445
Kerrville, Texas 78028

Mrs. Catherine B. McElvain
Individually and as Executrix of the
Estate of T. H. McElvain, Deceased
Box 2148
Santa Fe, New Mexico 87501

Mr. H. K. Riddle
Rt. 5, Box 5466
Albuquerque, New Mexico 87112

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

El Paso Natural Gas Company

El Paso, Texas 79999

July 28, 1967

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

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

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

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL
WELL

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Dakota Formation has been completed upon acreage committed to this Unit. This well is as follows:

The San Juan 28-6 Unit #141 Well, located 1100' from the South line and 1600' from the West line of Section 36, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded on June 9, 1967, and completed on June 28, 1967, at a total depth of 7585'. The Dakota Formation in the intervals between 7328'-7344', 7436'-7452', 7474'-7482', 7500'-7504', 7522'-7226', and 7538'-7542' was treated with a sand-water fracturing process. This well was shut-in on June 29, 1967, and after being shut-in for eight (8) days, the Dakota Formation was tested on July 6, 1967 and following a three (3) hour blow-down period gauged 5,365 MCFGPD through a 3/4" choke and 6,666 MCFGPD by the calculated absolute open-flow method, with a SIPT of 2,695 psia and an SIPC of 2,679 psia. The committed spacing unit upon which this well is located is described as the W/2 of Section 36, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres.

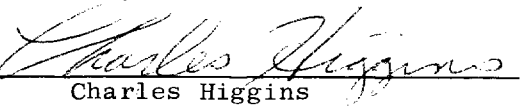
July 28, 1967

The spacing unit for the #141 Well was included in the San Juan 28-6 Unit Initial Participating Area for the Dakota Formation, effective December 7, 1959, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By 
Charles Higgins
Assistant Supervising Landman
Land Department

CH:CTR:psr

San Juan 28-6 Unit 4.3
NM 6623

Beta Development Company
P. O. Box 1659
Midland, Texas 79701

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico 87401

Continental Oil Company
Attention: Mr. H. D. Haley
P. O. Box 1621
Durango, Colorado 81302

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

Estate of G. F. Harrington
Central National Bank & Trust Co. of
Des Moines, Iowa, Trustee & Executor
5th and Locust Streets
Des Moines, Iowa 50309

Mr. T. F. Harrington
c/o T. H. Harrington
P. O. Box 4026, Station "A"
Albuquerque, New Mexico 87106

Mrs. Catherine B. McElvain
Individually and as Executrix of the
Estate of T. H. McElvain, Deceased
Box 2148
Santa Fe, New Mexico 87501

Mr. Forrest B. Miller & Mabelle M. Miller
1224 Lois St.
Kerrville, Texas 78028

Pan American Petroleum Corporation (3)
Attention: Mr. T. M. Curtis
Security Life Building
Denver, Colorado 80202

Phillips Petroleum Company
Attention: Mr. R. A. Wolgast
1300 Security Life Building
Denver, Colorado 80202

Skelly Oil Company
Attention: Mr. Wm. R. Kendall
District Exploration Manager
Lincoln Tower Building
1860 Lincoln Street
Denver, Colorado 80203

Pubco Petroleum Corporation (2)
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 869
Albuquerque, New Mexico 87103

Mr. H. K. Riddle
R. R. #5, Box 5466
Albuquerque, New Mexico 87112

Rincon Oil & Gas Corporation
1126 Mercantile Securities Bldg.
Dallas, Texas 75201

Skelly Oil Company
Attention: Mr. Barton T. Ratliff
Skelly Building
Tulsa, Oklahoma 74102

Sinclair Oil & Gas Company (3)
Attention: Mr. S. K. Van Steenbergh
Attention: Mr. W. A. Walther, Jr.
501 Lincoln Tower Building
1860 Lincoln Street
Denver, Colorado 80203

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

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

Beta Development Company
(Field Operations and Costs)
Attention: Mr. John Hampton
234 Petroleum Club Plaza
Farmington, New Mexico 87401

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

El Paso Natural Gas Company

El Paso, Texas 79900

June 8, 1967

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1967 DRILLING PROGRAM

Gentlemen:

The 1967 Drilling Program for the San Juan 28-6 Unit #14-08-001-1051 was approved by the regulatory bodies on the following dates:

1. United States Geological Survey - June 5, 1967
2. Commissioner of Public Lands - May 31, 1967
State of New Mexico
3. Oil Conservation Commission - June 1, 1967
State of New Mexico

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Yours very truly,

EL PASO NATURAL GAS COMPANY

Charles Higgins
Charles Higgins
Assistant Supervising Landman
Land Department

CH:JRP:psr

San Juan 28-6 Unit 3.0



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Drawer-1657
Roswell, New Mexico 88201

IN REPLY REFER TO:

June 5, 1967

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

Attention: Mr. T. W. Dittick

Gentlemen:

Your 1967 plan of development for the San Juan 28-6 unit area, Rio Arriba County, New Mexico, proposing the drilling of ten 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. SGE] JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

cc:

Washington (w/cy of plan)

Farmington (w/cy of plan)

NMOCC - Santa Fe (ltr. only) ✓

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

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

272
June 1, 1967

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

Attention: Mr. T. W. Bittick

Re: 1967 Drilling Program
San Juan 28-6 Unit, Rio
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1967 Drilling Program, received May 29, 1967, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

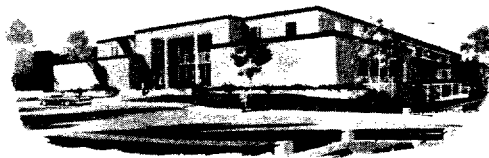
A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og
Enclosure

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

State of New Mexico



Commissioner of Public Lands

GUYTON B. HAYS
COMMISSIONER



P. O. BOX 1148
SANTA FE, NEW MEXICO

El Paso Natural Gas Company
1200 North 17th
El Paso, Texas, 79902

Re: San Juan County, New Mexico
Drilling Program for the San Juan 28-3 Unit, Rio
Arriba County, New Mexico, including the drilling of
(10) Dakota wells.

ATTENTION: Mr. T. W. Gittich

Gentlemen:

The Commissioner of Public Lands hereby approves your 1967 Drilling Program for the San Juan 28-3 Unit, Rio Arriba County, New Mexico, including the drilling of (10) Dakota wells.

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

We are retaining two copies of the plan and retaining one copy surplus to our need.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:
Eddie Lopez, Supervisor
Unit Division

GBH/TA/EL/s
cc: USGS-Roswell, New Mexico
OCC-Santa Fe, New Mexico ✓

El Paso Natural Gas Company
El Paso, Texas 79901

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

Commissioner of Public Lands
State of New Mexico
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 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1967 DRILLING PROGRAM

Gentlemen:

By letter dated June 30, 1966, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the calendar year of 1966 covering the captioned Unit. The Program provided for the drilling of the San Juan 28-6 Unit #121, #122, #123 and #124 Dakota Wells by El Paso Natural Gas Company during 1966. The #121 Well was drilled and completed by Unit Operator within the limits of the Dakota Participating Area. The #122, #123 and #124 Wells were completed by El Paso Natural Gas Company, and the Eleventh Expansion of the Dakota Participating Area was occasioned by the #123 Well, the Twelfth Dakota Expansion by the #122 Well, and the Thirteenth Dakota Expansion by the #124 Well. All these expansions have now been approved by the Regulatory Bodies.

Therefore, as of this date the total number of wells in the San Juan 28-6 Unit is as follows:

Pictured Cliffs	7
Dual, Pictured Cliffs-Mesaverde	15
Mesaverde, Commercial	71
Mesaverde, Noncommercial	1
Dual, Mesaverde-Dakota	1
Dakota, Commercial	20
Dakota, Plugged and Abandoned	1
	<u>116</u>

El Paso Natural Gas Company, as Unit Operator, hereby submits a Drilling Program providing for the drilling of the following described wells during the calendar year of 1967:

<u>Well Name and Spacing Unit</u>	<u>Formation</u>
1. San Juan 28-6 Unit #101 E/2 Sec. 14, T-28-N, R-6-W	Dakota
2. San Juan 28-6 Unit #106, N/2 Sec. 13, T-28-N, R-6-W	Dakota
3. San Juan 28-6 Unit #125 E/2 Sec. 21, T-28-N, R-6-W	Dakota
4. San Juan 28-6 Unit #126 W/2 Sec. 16, T-28-N, R-6-W	Dakota
5. San Juan 28-6 Unit #127 E/2 Sec. 20, T-28-N, R-6-W	Dakota
6. San Juan 28-6 Unit #128 E/2 Sec. 17, T-28-N, R-6-W	Dakota
7. San Juan 28-6 Unit #136 E/2 E/2 Sec. 11 and All Sec. 12 T-28-N, R-6-W	Dakota
8. San Juan 28-6 Unit #137 W/2 Sec. 14, T-28-N, R-6-W	Dakota
9. San Juan 28-6 Unit #138 E/2 Sec. 23, T-28-N, R-6-W	Dakota
10. San Juan 28-6 Unit #141 W/2 Sec. 36, T-28-N, R-6-W	Dakota

The locations numbered 1, 2, 3, 7, 8, 9 and 10 above are within the present Dakota Participating Area of the Unit. Therefore, the #101, #106, #125, #136, #137, #138, and #141 Wells are being drilled by El Paso Natural Gas Company, as Unit Operator, as development wells within the Dakota Participating Area in accordance with the provisions of Section 8 (a) of the San Juan 28-6 Unit Operating Agreement. Locations 4, 5, and 6, covering the #126, #127, and #128 Wells, are being drilled by El Paso Natural Gas Company outside the present Dakota Participating Area to extend the productive limits of the Participating Area.

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 300' and an 8 3/4" hole will be drilled to a depth of approximately 6000' at which point hole size will be reduced to 7 7/8". The 7 7/8" hole will be continued to total depth and a 4 1/2" production casing will be set and cemented in three stages. The production casing in the Dakota Formation will then be perforated and the Dakota Formation subjected to a hydraulic fracturing process. Due care will be taken to protect all horizons.

All of the working interest owners have been contacted, and this Drilling Program reflects the desires of the majority of these working interest owners.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances and any other wells 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,

EL PASO NATURAL GAS COMPANY

By



T. W. Bittick, Manager
Land Department

TWB:CTR:psr
Enclosures


San Juan 28-6 Unit - 3.0, 4.3

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

DATE: _____

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

DATE: _____

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

DATE: June 1, 1967

The foregoing approvals are for the 1967 Drilling Program for the San Juan
28-6 Unit #14-08-001-1051, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners:

Beta Development Company
P. O. Box 1659
Midland, Texas 79701

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico 87401

Continental Oil Company
Attention: Mr. H. D. Haley
P. O. Box 1621
Durango, Colorado 81302

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

Estate of G. F. Harrington
Central National Bank & Trust Co. of
Des Moines, Iowa, Trustee & Executor
5th and Locust Streets
Des Moines, Iowa 50309

Mr. T. F. Harrington
c/o T. H. Harrington
P. O. Box 4026, Station "A"
Albuquerque, New Mexico 87106

Mrs. Catherine B. McElvain
Individually and as Executrix of the
Estate of T. H. McElvain, Deceased
Box 2148
Santa Fe, New Mexico 87501

Mr. Forrest B. Miller and
Mrs. Mabelle M. Miller
1224 Lois St.
P. O. Box 1445
Kerrville, Texas 78028

Pan American Petroleum Corp.
Attention: Mr. T. M. Curtis
Security Life Building
Denver, Colorado 80202

Phillips Petroleum Company
Attention: Mr. R. A. Wolgast
1300 Security Life Building
Denver, Colorado 80202

Pubco Petroleum Corporation (2)
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 869
Albuquerque, New Mexico 87103

Mr. H. K. Riddle
R. R. #5, Box 5466
Albuquerque, New Mexico 87112

Rincon Oil & Gas Corporation
1126 Mercantile Securities Building
Dallas, Texas 75201

Skelly Oil Company
Attention: Mr. James Maedgen
P. O. Box 4115, Station "A"
Albuquerque, New Mexico 87106

Skelly Oil Company
Attention: Crude Oil and Gas
Accounting Section
Skelly Building
Tulsa, Oklahoma 74102

Sinclair Oil & Gas Company (3)
Attention: Mr. S. K. Van Steenberg
Attention: Mr. Walther, Jr.
501 Lincoln Tower Building
Denver, Colorado 80203

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

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

Beta Development Company
(Field Operations and Costs)
Attention: Mr. John Hampton
234 Petroleum Club Plaza
Farmington, New Mexico 87401

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

El Paso Natural Gas Company

El Paso, Texas 79999

April 14, 1967

APR 19 1967
AM 8 07

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

Commissioner of Public Lands
State of New Mexico
Post Office Box 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 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
ELEVENTH, TWELFTH AND THIRTEENTH
EXPANDED PARTICIPATING AREAS
DAKOTA FORMATION, Effective:
October 1, 1966, November 1, 1966,
and December 1, 1966, respectively

Gentlemen:

The Eleventh, Twelfth and Thirteenth Expanded Participating Areas of the Dakota Formation for the San Juan 28-6 Unit #14-08-001-1051, Rio Arriba County, New Mexico, were approved by the regulatory bodies on the following dates:

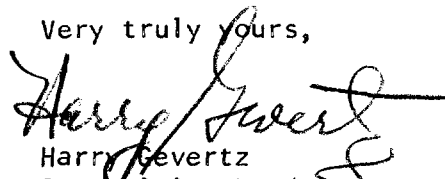
United States Geological Survey - April 4, 1967

Commissioner of Public Lands - March 13, 1967
State of New Mexico

Oil Conservation Commission - March 14, 1967
State of New Mexico

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Very truly yours,


Harry Gevertz
Supervising Landman
Land Department

HG:CTR:psr
San Juan 28-6 Unit, 4.3

Drawer 1857
Roswell, New Mexico 88291

MAIL ROOM OFFICE 000

APR 13 PM 1 15
1967

April 12, 1967

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

Attention: Mr. Harry Gevertz

Gentlemen:

The eleventh, twelfth, and thirteenth revisions of the Dakota participating area, San Juan 28-0 unit agreement, Rio Arriba County, New Mexico, were approved by the Acting Director, Geological Survey, on April 4, 1967, effective October 1, November 1, and December 1, 1966, respectively.

Four approved copies of the application are enclosed. You are requested to furnish the State of New Mexico and any other interested party with appropriate evidence of this approval. On future revisions please show the correct lease number of tract II as Santa Fe 079851-3. We have made this correction on all copies of the attached application.

Sincerely yours,

(ORIG. SCD) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

543

March 14, 1967

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

Attention: Mr. Harry Gevertz

Re: Eleventh, Twelfth, and
Thirteenth Expanded Dakota
Participating Areas, San
Juan 28-6 Unit, Rio Arriba
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Eleventh, Twelfth, and Thirteenth Expanded Participating Areas for the Dakota Formation for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

COPIES

State of New Mexico



Commissioner of Public Lands

GUYTON B. HAYS
COMMISSIONER



P. O. BOX 1148
SANTA FE, NEW MEXICO

March 14, 1967

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
ELEVENTH, TWELFTH, AND
THIRTEENTH EXPANDED PARTI-
CIPATING AREAS.
DAKOTA FORMATION

ATTENTION: Mr. Harry Gevertz

Gentlemen:

The Commissioner of Public Lands has this date approved the Eleventh, Twelfth, and Thirteenth Expanded Participating Area, Dakota Formation, for the captioned unit, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are retaining two copies and handing eight (8) copies to the Oil Conservation Commission for their approval and requesting that they forward seven (7) copies to the United States Geological Survey at Roswell for their consideration.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:
Ted Bilberry, Director
Oil and Gas Department

GBH/MMR/s
cc: USGS-Roswell
OCC-Santa Fe

RECEIVED
El Paso Natural Gas Company

MAR 3 1967

El Paso, Texas 79999

STATE LANDS OFFICE
SANTA FE, N.M.

March 1, 1967

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

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 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
ELEVENTH, TWELFTH AND THIRTEENTH
EXPANDED PARTICIPATING AREAS OF
THE DAKOTA FORMATION, Effective
October 1, 1966, November 1, 1966,
and December 1, 1966, respectively

Gentlemen:

Pursuant to the provisions of Section 11 (b) of the San Juan 28-6 Unit Agreement #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Eleventh, Twelfth, and Thirteenth Expanded Participating Areas for the Dakota Formation, to wit:

ELEVENTH EXPANDED PARTICIPATING AREA - Effective October 1, 1966

Description of Lands

Acres

Township 28 North, Range 6 West, N.M.P.M.

Section 15: W/2

Section 16: E/2

640.00

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #123 Well, located 800' from the North line and 800' from the East line of Section 16, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on September 2, 1966, and was completed September 29, 1966, at a total

depth of 8084'. The Dakota Formation from 7865'-7875', 7953'-7963', 8024'-8034' was treated with a sand-water fracturing process. The well was shut-in on September 29, 1966, and after being shut-in for seven (7) days the Dakota Formation was tested on October 6, 1966, and after a three (3) hour blow-down period the well gauged 4214 MCFGPD through a 3/4" choke and 5039 MCFGPD by the calculated absolute open-flow method with a SIPT of 2,562 psia and a SIPC of 2,534 psia.

TWELFTH EXPANDED PARTICIPATING AREA - Effective November 1, 1966

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 6 West, N.M.P.M.</u>	
Section 22: W/2	320.00

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #122 Well, located 1,550' from the South line and 1,600' from the West line of Section 15, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on September 30, 1966, and was completed November 16, 1966, at a total depth of 7,950'. The Dakota Formation from 7707'-7719', 7803'-7815', 7877'-7889' was treated with a sand-water fracturing process. The well was shut-in on November 17, 1966, and after being shut-in for thirteen (13) days the Dakota Formation was tested on November 30, 1966, and after a three (3) hour blow-down period the well gauged 4,778 MCFGPD through a 3/4" choke and 5,934 MCFGPD by the calculated absolute open-flow method with a SIPT of 1,865 psia and a SIPC of 2,611 psia.

THIRTEENTH EXPANDED PARTICIPATING AREA - Effective December 1, 1966

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 6 West, N.M.P.M.</u>	
Section 21: E/2	
Section 28: E/2	640.00

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #124 Well, located 1840' from the South line and 1840' from the West line of Section 22, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on November 13, 1966, and was completed December 6, 1966, at a total depth of 7857'. The Dakota Formation from 7611'-7627', 7712'-7728', 7777'-7793', 7814'-7822' was treated with a sand-water fracturing process. The well was shut-in on December 6, 1966, and after being shut-in for seven (7) days the Dakota Formation was tested on December 13, 1966, and after a three (3) hour blow-down period the well gauged 4592 MCFGPD through a 3/4" choke and 5738 MCFGPD by the calculated absolute open-flow method with a SIPT of 2,508 psia and a SIPC of 2,487 psia.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Eleventh, Twelfth, and Thirteenth Expanded Participating Areas of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "B"

Geological Report on the Eleventh, Twelfth, and Thirteenth Expanded Participating Areas of the Dakota Formation within the San Juan 28-6 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-6 Subsurface Structure Contour Map.
Figure No. 2: San Juan 28-6 Isopachous Map.

EXHIBIT "D"

Schedule of Dakota Gas Production

Attached hereto are Schedules XII, XIII, and XIV that show the proposed Eleventh, Twelfth, and Thirteenth Expanded Participating Areas for the Dakota Formation in the San Juan 28-6 Unit Area. These Schedules describe the Expanded Participating Areas, show percentage of unitized substances allocated to each unitized tract and the percentage of ownership in each tract.

If these Eleventh, Twelfth, and Thirteenth Expanded Participating Areas of the Dakota Formation meet with your approval, please indicate such approval in the space provided and return an approved copy thereof for our files.

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

Yours very truly,

Harry Gevertz
Supervising Landman
Land Department

HG:CTR:sb

Enclosures

APPROVED:

Director, United States Geological Survey
Subject to like approval by the appropriate
State Officials.

DATE: _____

APPROVED:

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

DATE:

March 13, 1967

APPROVED:

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

DATE:

March 14, 1967

The foregoing approvals are for the Eleventh, Twelfth, and Thirteenth Expanded Participating Areas of the Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba County, New Mexico.

El Paso Natural Gas Company

El Paso, Texas 79999

March 1, 1967

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
ELEVENTH, TWELFTH, AND THIRTEENTH
EXPANDED PARTICIPATING AREAS,
Dakota Formation

Dear Sir:

Enclosed for your approval are ten copies of the Eleventh, Twelfth, and Thirteenth Expanded Participating Areas of the Dakota Formation covering the above described Unit.

If these Expansions meet with your approval, please execute all copies and forward them to the Oil Conservation Commission for their approval and execution. After the Expansions have been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two file copies and the Oil Conservation Commission should retain one file copy, and seven copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for approval. After these Expansions have been approved and signed by the United States Geological Survey, four copies thereof should be returned to El Paso.

Very truly yours,

Original Signed by

HARRY GEVERTZ
Harry Gevertz
Supervising Landman
Land Department

HG:CTR:sb
Enclosures
San Juan 28-6 Unit, 4.3, 5.0

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

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

Mr. R. F. Lemon
Mr. D. N. Canfield

COPY

El Paso Natural Gas Company

El Paso, Texas 79999

January 17, 1967

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
FOURTEENTH AND FIFTEENTH EXPANDED
PARTICIPATING AREAS,
Dakota Formation

Dear Sir:

Enclosed for your approval are eight copies of the Fourteenth and Fifteenth Expanded Participating Areas of the Dakota Formation covering the above described Unit.

If these Expansions meet with your approval, please execute all copies and forward them to the Oil Conservation Commission for their approval and execution. After the Expansions have been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two file copies and the Oil Conservation Commission should retain one file copy, and five copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for approval. After these Expansions have been approved and signed by the United States Geological Survey, one copy thereof should be returned to El Paso.

Very truly yours,

MAIN OFFICE

Charles Higgins
Supervising Landman
Land Department

'68 JAN 22 AM 8 18

CH:DI:vjh
Enclosures

San Juan 28-6 Unit, 4.3, 5.0

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

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

bcc: R. F. Lemon
J. P. Musick, Jr.

COPY

El Paso Natural Gas Company

El Paso, Texas 79999

October 12, 1966

RECEIVED
OCT 17 1966

342

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

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

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

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL
WELL

Gentlemen:

Pursuant to Section 11 (b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Dakota Formation has been completed upon acreage committed to this Unit. This well is as follows:

The San Juan 28-6 Unit #121 Well, located 1700' from the North line and 1550' from the East line of Section 15, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded on August 8, 1966, and completed on August 31, 1966, at a total depth of 7916'. The Dakota Formation in the intervals between 7663' - 7667', 7682' - 7690', 7756' - 7764', 7848' - 7856' and 7873' - 7874' was treated with a sand-water fracturing process. This well was shut-in on September 1, 1966, and after being shut-in for seven (7) days, the Dakota Formation was tested on September 8, 1966, and following a three (3) hour blow-down period gauged 3,864 MCFGPD through a 3/4" choke and 4,434 MCFGPD by the calculated absolute open-flow method, with a SIPT of 2,522 psia and an SIPC of 2,544 psia. The committed spacing unit upon which this well is located is described as the E/2 of Section 15, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres.

The spacing unit for the #121 Well was included in the San Juan 28-6 Unit Eighth Expanded Participating Area for the Dakota Formation, effective May 1,

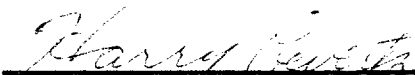
1965 and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By


Harry Gevertz
Supervising Landman
Land Department

HG:CTR:jm
Attachment

Beta Development Company
P. O. Box 1659
Midland, Texas 79701

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico 87401

Continental Oil Company
Attention: Mr. H. D. Haley
P. O. Box 1621
Durango, Colorado 81302

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

Estate of G. F. Harrington
Central National Bank & Trust Co. of
Des Moines, Iowa, Trustee & Executor
5th and Locust Streets
Des Moines, Iowa

Mr. T. F. Harrington
c/o T. H. Harrington
P. O. Box 4026, Station "A"
Albuquerque, New Mexico 87106

Mrs. Catherine B. McElvain
Individually and as Executrix of the
Estate of T. H. McElvain, Deceased
Box 2148
Santa Fe, New Mexico 87501

Mr. Forrest B. Miller & Mabelle M. Miller
220 Shelby Street
Santa Fe, New Mexico 87501

Pan American Petroleum Corporation (3)
Attention: Mr. T. M. Curtis
Security Life Building
Denver, Colorado 80202

Phillips Petroleum Company
Attention: Mr. R. A. Wolgast
1300 Security Life Building
Denver, Colorado 80202

Pubco Petroleum Corporation (2)
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 869
Albuquerque, New Mexico 87103

Mr. H. K. Riddle
1409 Mesilla, NE
Albuquerque, New Mexico 87110

Rincon Oil & Gas Corporation
1126 Mercantile Securities Bldg.
Dallas, Texas 75201

Skelly Oil Company
Attention: Mr. James Maedgen
P. O. Box 4115, Station "A"
Albuquerque, New Mexico

Skelly Oil Company
Attention: Crude Oil & Gas Accounting Sec.
Box 1650
Tulsa, Oklahoma 74102

Sinclair Oil & Gas Company (3)
Attention: Mr. S. K. Van Steenberg
Attention: Mr. W. A. Walther, Jr.
501 Lincoln Tower Building
Denver, Colorado 80203

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

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

Beta Development Company
(Field Operations and Costs)
Attention: Mr. John Hampton
234 Petroleum Club Plaza
Farmington, New Mexico 87401

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

El Paso Natural Gas Company

El Paso, Texas 79999

October 13, 1966

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
TENTH EXPANDED PARTICIPATING AREA
DAKOTA FORMATION, Effective
April 1, 1966

Gentlemen:

The Tenth Expanded Participating Area of the Dakota Formation for the San Juan 28-6 Unit #14-08-001-1051, Rio Arriba County, New Mexico, was approved by the regulatory bodies on the following dates:

United States Geological Survey - September 29, 1966

Commissioner of Public Lands - August 30, 1966
State of New Mexico

Oil Conservation Commission - August 31, 1966
State of New Mexico

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Very truly yours,

EL PASO NATURAL GAS COMPANY

Charles Higgins
Charles Higgins
Assistant Supervising Landman
Land Department

CH:CTR:je
San Juan 28-6 Unit, 4.3

66 OCT 13 1966
Drawer 1857
Roswell, New Mexico 88201

October 11, 1966

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

Attention: Mr. T. W. Bittick

Gentlemen:

The tenth revision of the Dakota participating area for the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, was approved on September 29, 1966, by the Acting Director, U. S. Geological Survey, effective as of April 1, 1966.

Four approved copies of the application are enclosed. You are requested to furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SGD) BILLY J. SHOGER

BILLY J. SHOGER
Acting Oil and Gas Supervisor

cc:

Washington (ltr. only)
Farmington (w/cy appln.)
EMOCC, Santa Fe (ltr. only) ✓
Com. of Public Lands, Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

543

August 31, 1966

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

Attention: Mr. T. W. Bittick

Re: Tenth Expanded Participating
Area, Dakota Formation, San
Juan 28-6 Unit, Rio Arriba County,
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Tenth Expansion of the Participating Area for the Dakota Formation for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

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

ALP/JEX/og

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

August 30, 1966

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

Re: San Juan 28-6 Unit
Rio Arriba County,
New Mexico

ATTENTION: Mr. Harry Gevertz

Gentlemen:

The Commissioner of Public Lands has approved the Tenth Expanded Participating Area, Dakota Formation, for the San Juan 28-6 Unit Area, subject to like approval by the Oil Conservation Commission and the United States Geological Survey.

We are handing eight approved copies of this application to the Oil Conservation Commission for their consideration and requesting that they forward seven copies to the United States Geological Survey.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:
Ted Bilberry, Director
Oil and Gas Department

GBH/MMR/s

cc: United States
Geological Survey
Roswell, New Mexico

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

El Paso Natural Gas Company

El Paso, Texas

AUG 26 1966

August 24, 1966

SANTA FE, N.M.

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

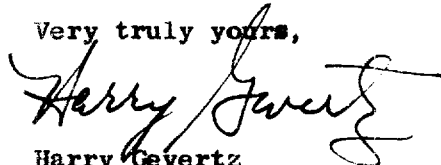
Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
TENTH EXPANDED PARTICIPATING AREA
Dakota Formation

Dear Sir:

Enclosed for your approval are ten copies of the Tenth Expanded Participating Area of the Dakota Formation covering the above described Unit.

If this Expansion meets with your approval, please execute all copies and forward them to the Oil Conservation Commission for their approval and execution. After the Expansion has been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two file copies and the Oil Conservation Commission should retain one file copy, and seven copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for approval. After this Expansion has been approved and signed by the United States Geological Survey, four copies thereof should be returned to El Paso.

Very truly yours,



Harry Gevertz
Supervising Landman
Land Department

CH:CTR:cah
Enclosures

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

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

San Juan 28-6 Unit 4.3, 5.0

COPY

El Paso Natural Gas Company

El Paso, Texas 79999

August 24, 1966

AUG 28 1966

SANTA FE, N.M.

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
TENTH EXPANDED PARTICIPATING AREA
OF THE DAKOTA FORMATION, Effective
April 1, 1966

Gentlemen:

Pursuant to the provisions of Section 11 (b) of the San Juan 28-6 Unit Agreement #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby requests approval of the Tenth Expansion of the Participating Area for the Dakota Formation, to wit:

TENTH EXPANDED PARTICIPATING AREA - Effective April 1, 1966

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 6 West, N.M.P.M.</u>	
Section 9: Lots 1,2,3, SE/4 SW/4, S/2 SE/4	
Section 10: Lots 3,4, S/2 SW/4	354.79

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #120 Well, located 1,530' from the South line and 1,145' from the East line of Section 9, Township 28 North, Range 6, West, Rio Arriba County, New Mexico, was spudded on November 7, 1965, and was completed April 7, 1966, at a total depth of 7,829'. The Dakota Formation from 7,634' - 7,640', 7,716' - 7,726', 7,756' - 7,764', 7,774' - 7,784' was treated with a sand-water fracturing process. The well was shut-in on April 11, 1966,

and after being shut-in for nine (9) days the Dakota Formation was tested on April 20, 1966, and after a three (3) hour blow-down period the well gauged 3,062 MCFGPD through a 3/4" choke and 3,395 MCFGPD by the calculated absolute open-flow method with a SIPT of 2,655 psia and a SIPC of 2,699 psia.

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

EXHIBIT "A"

Ownership Map reflecting the boundaries of the Unit and the proposed Tenth Expansion of the Dakota Participating Area.

EXHIBIT "B"

Geological Report on the Tenth Expansion of the Dakota Participating Area within the San Juan 28-6 Unit.

EXHIBIT "C"

Structural Contour Map

EXHIBIT "D"

Schedule of Dakota Gas Production

Attached hereto is Schedule XI showing the proposed Tenth Expanded Participating Area for the Dakota Formation in the San Juan 28-6 Unit Area. This Schedule describes the Expanded Participating Area, shows percentage of unitized substances allocated to each unitized tract and the percentages of ownership in each tract.

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

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

Yours very truly,

EL PASO NATURAL GAS COMPANY

BY: T. W. Bittick
T. W. Bittick, Manager
Land Department

TWB:CTR:kw
Enclosures

APPROVED: _____

Director, United States Geological Survey
Subject to like approval by the appropriate
State Officials.

DATE: _____

APPROVED: _____

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

DATE: _____

APPROVED: _____

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

DATE: _____

The foregoing approvals are for the Tenth Expanded Participating Area of the
Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba
County, New Mexico.

100-26-1
AUG 26 1966
August 24, 1966

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

65 AUG 26 PM 1 11

Re: San Juan 28 6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
TENTH EXPANDED PARTICIPATING AREA
Dakota Formation

Dear Sir:

Enclosed for your approval are ten copies of the Tenth Expanded Participating Area of the Dakota Formation covering the above described Unit.

If this Expansion meets with your approval, please execute all copies and forward them to the Oil Conservation Commission for their approval and execution. After the Expansion has been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two file copies and the Oil Conservation Commission should retain one file copy, and seven copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for approval. After this Expansion has been approved and signed by the United States Geological Survey, four copies thereof should be returned to El Paso.

Very truly yours,

Original Signed by

HARRY GEVERTZ
Harry Gevertz
Supervising Landman
Land Department

CH:CTR:cah
Enclosures

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

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

San Juan 28 6 Unit 4.5, 5.0

El Paso Natural Gas Company

El Paso, Texas 79999

August 8, 1966

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1966 DRILLING PROGRAM

Gentlemen:

The 1966 Drilling Program for the San Juan 28-6 Unit #14-08-001-1051 was approved by the regulatory bodies on the following dates:

1. United States Geological Survey - July 25, 1966.
2. Commissioner of Public Lands - July 22, 1966.
State of New Mexico
3. Oil Conservation Commission - July 29, 1966.
State of New Mexico

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Yours very truly,

EL PASO NATURAL GAS COMPANY


Harry Gevertz
Supervising Landman
Land Department

HG:CTR:kw

San Juan 28-6 Unit 3.0

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

July 29, 1966

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

Attention: Mr. T. W. Bittick

Re: 1966 Drilling Program
San Juan 28-6 Unit, Rio
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1966 Drilling Program providing for the drilling of four Dakota wells for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Two approved copies of the program are returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

July 25, 1966

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your 1966 plan of development dated June 30, 1966, for the San Juan 28-6 unit area, Rio Arriba County, New Mexico, proposing the drilling of four Dakota wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

(ORIG. SIGNED BY JOHN A. ANDERSON)

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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

MAIN JUL 22 1966

July 22, 1966

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

Re: San Juan 28-6 Unit
Rio Arriba County,
New Mexico

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has approved as of this date the 1966 Drilling Program for the San Juan 28-6 Unit Area, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

This Plan of Development provides for four additional Dakota wells to be drilled during 1966.

We are returning one approved copy of this Plan.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS
BY:

Ted Bilberry, Director
Oil and Gas Department

GBH/mmz/s

cc: New Mexico Oil
Conservation Commission
Santa Fe, New Mexico
United States Geological Survey
Roswell, New Mexico

El Paso Natural Gas Company

El Paso, Texas

June 30, 1966

RECEIVED
JUL 7 AM 7 34
1966

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1966 DRILLING PROGRAM

Gentlemen:

By letter dated December 14, 1965, El Paso Natural Gas Company, as Unit Operator, filed a Supplemental Drilling Program for the calendar year of 1965 covering the captioned Unit. This Program advised that El Paso Natural Gas Company, as Unit Operator, had completed the San Juan Unit #99 and #114 Dakota Wells within the existing Dakota Participating Area. Both of these wells were drilled to protect the Unit from drainage by non-Unit offsets. The Program also advised that Beta Development Company had completed the #117 Dakota Well, as Sub-Operator, and that El Paso Natural Gas Company had commenced its #119 Dakota Well. The #117 and #119 Wells were both drilled outside the limits of the Dakota Participating Area, and the #119 Well was completed during 1965. Additionally, Beta Development Company, as Sub-Operator, commenced a Dakota development well during the latter part of 1965 in the SE/4 of Section 9, T-28-N, R-6-W, with the well actually being completed in 1966.

All of the above wells were determined to be commercial, and they affected the Dakota Participating Area to the extent indicated:

<u>Well and Location</u>	<u>Drilled By</u>	<u>Unit Action Occasioned</u>
No. 99 and No. 114	El Paso Natural Gas Co., as Unit Operator	None, since the spacing units of both wells were included within the Initial Expansion

<u>Well and Location</u>	<u>Drilled By</u>	<u>Unit Action Occasioned</u>
(No. 99 and No. 114 - Continued)		of the Dakota Participating Area, and since no additional lands were brought into Dakota participation.
No. 117	Beta Development Company, as Sub-Operator	Eighth Revision of Dakota Participating Area, which has been approved.
No. 119	El Paso Natural Gas Company	Ninth Revision of Dakota Participating Area, which has been approved.
No. 120	Beta Development Company, as Sub-Operator	Tenth Revision of Dakota Participating Area, which is being prepared for submission to the Regulatory Bodies for approval.

Therefore, as of this date the total number of wells in the San Juan 28-6 Unit is as follows:

Pictured Cliffs	7
Dual, Pictured Cliffs-Mesaverde	15
Mesaverde, Commercial	71
Mesaverde, Noncommercial	1
Dual, Mesaverde-Dakota	1
Dakota, Commercial	16
Dakota, Plugged and Abandoned	<u>1</u>
	112

El Paso Natural Gas Company, as Unit Operator, hereby submits a Drilling Program providing for the drilling of the following described Dakota Formation wells by El Paso Natural Gas Company during the calendar year of 1966:

	<u>Well Name and Location</u>	<u>Formation</u>
1.	San Juan 28-6 Unit #121, E/2 Sec. 15, T-28-N, R-6-W	Dakota
2.	San Juan 28-6 Unit #122, W/2 Sec. 15, T-28-N, R-6-W	Dakota
3.	San Juan 28-6 Unit #123, E/2 Sec. 16, T-28-N, R-6-W	Dakota
4.	San Juan 28-6 Unit #124, W/2 Sec. 22, T-28-N, R-6-W	Dakota

Location No. 1 was brought into the Dakota Participating Area under the Fourth Expansion of the Participating Area, effective December 1, 1962. Therefore, the #121 Well is being drilled as a development well within the Dakota Participating Area in accordance with the provisions of Section 8(a) of the San Juan 28-6 Unit Operating Agreement. Locations No. 2, 3, and 4 are being drilled outside the present Dakota Participating Area to extend the productive limits of the Participating Area.

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 300' and an intermediate string will be run if necessary through the Pictured Cliffs Formation to a depth of approximately 3200', and then a production casing string will be run and cemented to the base of the Dakota Formation. The casing in the Dakota Formation will then be perforated and the Dakota Formation subjected to a hydraulic fracturing process. Due care will be taken to protect all horizons.

All of the working interest owners have been contacted, and this Drilling Program reflects the desires of the majority of these working interest owners.

El Paso Natural Gas Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances and any other wells 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,

EL PASO NATURAL GAS COMPANY

By


T. W. Bittick, Manager
Land Department

TWB:CTR:cg
Enclosures

APPROVED: _____

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


DATE: _____

APPROVED: _____

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

DATE: _____

APPROVED: _____


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

DATE: 7. 21. 68

The foregoing approvals are for the 1966 Drilling Program for the San Juan 28-6 Unit, No. 14-08-001-1051, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners:

Beta Development Company
P. O. Box 1659
Midland, Texas

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

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

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

Estate of G. F. Harrington
Central National Bank & Trust Co. of
Des Moines, Iowa, Trustee & Executor
5th and Locust Streets
Des Moines, Iowa

Mr. T. F. Harrington
c/o T. H. Harrington
P. O. Box 4026, Station "A"
Albuquerque, New Mexico

Mrs. Catherine B. McElvain
Individually and as Executrix of the
Estate of T. H. McElvain, Deceased
Box 2148
Santa Fe, New Mexico

Mr. Forrest B. Miller and
Mrs. Mabelle M. Miller
220 Shelby Street
Santa Fe, New Mexico

Pan American Petroleum Corp.
Attention: Mr. T. M. Curtis
Security Life Building
Denver, Colorado 80202

Phillips Petroleum Company
Attention: Mr. R. A. Wolgast
1300 Security Life Building
Denver, Colorado 80202

Pubco Petroleum Corporation
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 869
Albuquerque, New Mexico 87103

Mr. H. K. Riddle
1409 Mesilla, NE
Albuquerque, New Mexico

Rincon Oil & Gas Corporation
1126 Mercantile Securities Building
Dallas, Texas

Skelly Oil Company
Attention: Mr. James Maedgen
P. O. Box 4115, Station "A"
Albuquerque, New Mexico

Skelly Oil Company
Attention: Mr. T. F. Thompson
Skelly Building
Tulsa, Oklahoma

Sinclair Oil & Gas Company
Attention: Mr. S. K. Van Steenbergh
Attention: Mr. W. A. Walther, Jr.
501 Lincoln Tower Building
Denver, Colorado 80203

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

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

Beta Development Company
Attention: Mr. John Hampton
234 Petroleum Club Plaza
Farmington, New Mexico

Tenneco, Inc.
4th Floor, 201 Wall Building
Midland, Texas
Attention: Mr. Weaver W. Ralls, Supervisor
Division Records & Rentals

El Paso Natural Gas Company

El Paso, Texas

May 25, 1966

MAILED 10 1966

MAY 27 PM 1 11

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
NINTH EXPANDED PARTICIPATING AREA
DAKOTA FORMATION, Effective
December 1, 1965

Gentlemen:

The Ninth Expanded Participating Area of the Dakota Formation for the San Juan 28-6 Unit #14-08-001-1051, Rio Arriba County, New Mexico, was approved by the regulatory bodies on the following dates:

United States Geological Survey - May 11, 1966

Commissioner of Public Lands - April 13, 1966

Oil Conservation Commission - April 19, 1966

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Very truly yours,

EL PASO NATURAL GAS COMPANY



Harry Gevertz
Supervising Landman
Land Department



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

IN REPLY REFER TO:

MAIL OFFICE

66 May 19 PM 1 19

May 8, 1966

E. Paso Natural Gas Company
P. O. Box 1492
E. Paso, Texas 79609

Attention: Mr. T. W. Bistlich

Gentlemen:

The ninth revision of the Dakota participating area for the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, was approved on May 11, 1966, by the Acting Director, U. S. Geological Survey, effective as of December 1, 1965.

Four approved copies of the application are enclosed. You are requested to furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Sincerely yours,

(Orig. Sgl.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

cc:

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

543

April 19, 1966

C
O
P
Y

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

Attention: Mr. T. W. Bittick

Re: Ninth Expanded Participating
Area, Dakota Formation,
San Juan 28-6 Unit, Rio Arriba
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Ninth Expansion of the Dakota Participating Area for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

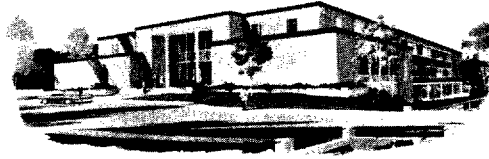
A. L. PORTER, Jr.,
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

U. G. Geological Survey - Roswell

State of New Mexico



Commissioner of Public Lands



GUYTON B. HAYS
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

April 13, 1966

El Paso Natural Gas Company
El Paso, Texas 79999

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico

ATTENTION: Mr. Harry Gever

Gentlemen:

The Commissioner of Public Lands approved as of this date the Ninth Expanded Participating Area, Dakota Formation, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are handing eight approved copies to the Oil Conservation Commission and requesting them to forward seven copies to the United States Geological Survey for their consideration.

Very truly yours,

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

GBH/MMR/s

cc: United States Geological Survey
Roswell, New Mexico

Oil Conservation Commission
Santa Fe, New Mexico

El Paso Natural Gas Company

El Paso, Texas

April 11, 1966

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico.
NINTH EXPANDED PARTICIPATING AREA
DAKOTA FORMATION

Dear Sir:

Enclosed for your approval are ten copies of the Ninth Expanded Participating Area of the Dakota Formation covering the above described unit.

If this Expansion meets with your approval, please execute all copies and forward them to the Oil Conservation Commission for their approval and execution. After this Expansion has been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two file copies and the Oil Conservation Commission should retain one file copy, and seven (7) copies should be forwarded to the United States Geological Survey in Roswell, New Mexico for approval. After this Expansion has been approved and signed by the United States Geological Survey, four (4) copies thereof should be returned to El Paso.

Yours very truly,



Harry Gevertz
Supervising Landman
Land Department

HG:CTR:cg
Enclosures
San Juan 28-6 Unit, 4.3, 5.0

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

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

COPY

El Paso Natural Gas Company

El Paso, Texas 79999

April 7, 1966

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

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

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

RECEIVED
APR 13 1966
U.S. GEOLOGICAL SURVEY
WASHINGTON, D.C.

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
NINTH EXPANDED PARTICIPATING AREA
OF THE DAKOTA FORMATION, Effective
December 1, 1965

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company as Unit Operator, hereby requests approval of the Ninth Expansion of the Participating Area for the Dakota Formation, to wit:

NINTH EXPANDED PARTICIPATING AREA - Effective December 1, 1965

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 6 West, N.M.P.M.</u>	
Section 22: E/2	
Section 27: N/2	640.00

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #119 Well, located 1,500' from the North line and 1,090' from the East line of Section 22, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on November 3, 1965, and was completed November 28, 1965, at a total depth of 7,923'. The Dakota Formation from 7,646' - 7,650'; 7,660' - 7,664'; 7,740' - 7,756'; 7,827' - 7,831' was treated with a sand-water fracturing

process. The well was shut-in on November 28, 1965, and after being shut-in for eleven (11) days the Dakota Formation was tested on December 9, 1965, and after a three (3) hour blow-down period the well gauged 3,297 MCFGPD through a 3/4" choke and 3,670 MCFGPD by the calculated absolute open-flow method with a SIPT of 2,069 psia and a SIPC of 2,674 psia.

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

EXHIBIT "A"

Ownership Map reflecting the boundaries of the unit and the proposed Ninth Expansion of the Dakota Participating Area.

EXHIBIT "B"

Geological Report on the Ninth Expansion of the Dakota Participating Area within the San Juan 28-6 Unit.

EXHIBIT "C"

Structural Contour Map

EXHIBIT "D"

Schedule of Dakota Gas Production


Attached hereto is Schedule X showing the proposed Ninth Expanded Participating Area for the Dakota Formation in the San Juan 28-6 Unit Area. This Schedule describes the Expanded Participating Area, shows percentage of unitized substances allocated to each unitized tract and the percentages of ownership in each tract.

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

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

Yours very truly,

EL PASO NATURAL GAS COMPANY

By 
T. W. Bittick, Manager
Land Department

TWB:CTR:cg
Enclosures

APPROVED: _____
Director, United States Geological Survey
Subject to like approval by the appropriate
State Officials.

DATE: _____

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

DATE: April 13, 1966

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

DATE: April 19, 1966

The foregoing approvals are for the Ninth Expanded Participating Area of the
Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba
County, New Mexico.

El Paso Natural Gas Company

El Paso, Texas 79999

January 31, 1966

FEB 4 AM 11 09

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1965 DRILLING PROGRAM

Gentlemen:

The 1965 Drilling Program for the San Juan 28-6 Unit #14-08-001-1051 was approved by the regulatory bodies on the following dates:

1. United States Geological Survey - January 10, 1966
2. Commissioner of Public Lands - January 25, 1966
3. Oil Conservation Commission - January 24, 1966

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Very truly yours,


Harry Gevertz
Supervising Landman
Land Department

HG:CTR:sb

San Juan 28-6 Unit 3.0

El Paso Natural Gas Company

El Paso, Texas

January 27, 1966

RECEIVED

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

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

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

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL
WELL

Gentlemen:

Pursuant to Section 11 (b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 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 paying quantities from the Dakota Formation have been completed upon acreage committed to this unit. These wells are as follows:

The San Juan 28-6 Unit #99 Well, located 1650' from the North line and 1090' from the East line of Section 24, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded on September 2, 1965, and completed on September 26, 1965, at a total depth of 7900'. The Dakota Formation in the intervals between 7576'-7584', 7668'-7676', 7715'-7723', 7741'-7749' was treated with a sand-water fracturing process. This well was shut-in on September 26, 1965, and after being shut-in for eighteen (18) days, the Dakota Formation was tested on October 14, 1965, and following a three (3) hour blow-down period gauged 4,048 MCFGPD through a 3/4" choke and 4,707 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2690 psia and an SIPC of 2703 psia. The committed spacing unit upon which this well is located is described as the N/2 of Section 24, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres.

The San Juan 28-6 Unit #114 Well, located 990' from the North line and 990' from the East line of Section 25, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded September 26, 1965, and completed on October 21, 1965, at a total depth of 7970'. The Dakota Formation in the intervals between 7638'-7646', 7736'-7744', 7810'-7818', 7830'-7838', was treated with a sand-water fracturing process. This well was shut-in October 21, 1965, and after being shut-in for twenty-one (21) days, the Dakota Formation was tested on November 11, 1965, and following a three (3) hour blow-down period gauged 5,247 MCFGPD through a 3/4" choke and 6,765 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2,474 psia and an SIPC of 2,648 psia. The committed spacing unit upon which this well is located is described as the E/2 of Section 25, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres.

The spacing units for both the #99 and #114 Wells were included in the San Juan 28-6 Unit Initial Participating Area for the Dakota Formation effective December 7, 1959. The completion of these wells does not indicate that any lands not presently participating should be determined as capable of producing in paying quantities. Therefore, these completions do not warrant any further expansion of the Dakota Participating Area.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

T. W. Bittick
Assistant Manager
Land Department

TWB:CTR:sb

Attachment

SAN JUAN 28-6 UNIT
Working Interest Owners

Beta Development Company
P. O. Box 1659
Midland, Texas

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

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

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

Estate of G. F. Harrington
Central National Bank & Trust Co. of
Des Moines, Iowa, Trustee & Executor
5th and Locust Streets
Des Moines, Iowa

Mr. T. F. Harrington
c/o T. H. Harrington
P. O. Box 4026, Station "A"
Albuquerque, New Mexico

Mrs. Catherine B. McElvain
Individually and as Executrix of the
Estate of T. H. McElvain, Deceased
Box 2148
Santa Fe, New Mexico

Mr. Forrest B. Miller and
Mrs. Mabelle M. Miller
220 Shelby Street
Santa Fe, New Mexico

Pan American Petroleum Corporation (7)
Attention: Mr. T. M. Curtis
P. O. Box 480
Farmington, New Mexico

Phillips Petroleum Company
Attention: Mr. R. A. Wolgast
1300 Security Life Building
Denver, Colorado 80202

Pubco Petroleum Corporation (2)
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 1419
Albuquerque, New Mexico 87103

Mr. H. K. Riddle
1409 Mesilla, NE
Albuquerque, New Mexico

Rincon Oil & Gas Corporation
1126 Mercantile Securities Bldg.
Dallas, Texas

Skelly Oil Company
Attention: Mr. V. E. Bartlett
P. O. Box 4115, Station "A"
Albuquerque, New Mexico

Skelly Oil Company
Attention: Mr. T. F. Thompson
Skelly Building
Tulsa, Oklahoma

Sinclair Oil & Gas Company (3)
Attention: Mr. W. A. Walther, Jr.
Attention: Mr. S. K. Van Steenberg
501 Lincoln Tower Building
Denver, Colorado 80203

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

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

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

Beta Development Company
Attention: Mr. John Hampton
234 Petroleum Club Plaza
Farmington, New Mexico

State of New Mexico

MAIN OFFICE 000



JAN 25 PM 10 19

Commissioner of Public Lands

GUYTON B. HAYS
COMMISSIONER



P. O. BOX 1148
SANTA FE, NEW MEXICO

January 25, 1966

El Paso Natural Gas Company
Post Office Box 1492
El Paso, Texas

Re: San Juan 28-6
Rio Arriba County,
New Mexico

ATTENTION: Mr. Sam Smith

Gentlemen:

Your 1965 Plan of Development, dated December 14, 1965, for the San Juan 28-6 Unit Agreement which was received in this office as of January 24, 1966 has been approved by the Commissioner of Public Lands. The United States Geological Survey has previously approved this agreement.

We are returning one approved copy of this plan.

Very truly yours,

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

GBH/TE/MMR/s

cc: United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

Oil Conservation Commission
Santa Fe, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

543

January 24, 1965

C
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Y

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

Attention: Mr. Sam Smith

Re: 1965 Drilling Program,
San Juan 28-6 Unit, Rio
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1965 Drilling Program dated December 14, 1965, for the San Juan 28-6 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.

Four approved copies of the drilling program is returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico

MAIN OFFICE 500

JAN 24 AM 8 23

January 20, 1966

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Attention: Mrs. Marian Rhea

Re: San Juan 28 Unit No. 14-08-001-1051
Rio Arriba County, New Mexico
1965 Drilling Program

Dear Mrs. Rhea:


Enclosed in accordance with your telephonic request of January 19, 1966, is a copy of our San Juan 28-6 Unit 1965 Drilling Program Letter which was approved by the United States Geological Survey on January 10, 1966.

We are also enclosing three additional copies of this letter in order that you may act on this application, and wish to express our sincere apologies for your not receiving this letter when it was originally transmitted. This oversight was apparently occasioned by some type of clerical mailing error and we regret any inconvenience this default may have caused.

By copy of this letter we are advising the Oil Conservation Commission of this matter and furnishing them with a copy of the United States Geological Survey approved letter for their files, and three additional copies for action and return. We felt this would be prudent on the contingency that they also may have not received their original letter.

Your forbearance as well as that of the Oil Conservation Commission is again requested for this oversight.

Very truly yours,



Harry Gevertz
Supervising Landman
Land Department

HG:CTR:sb

Enclosures

cc: Mr. D. N. Canfield

San Juan 28-6 - 3.0 & 5.0

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

El Paso Natural Gas Company

MAIN OFFICE CCC

El Paso, Texas 79999

JAN 19 PM 11 20

January 13, 1966

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
EIGHTH EXPANDED PARTICIPATING AREA
OF THE DAKOTA FORMATION

Gentlemen:

The Eighth Expanded Participating Area of the Dakota Formation for the San Juan 28-6 Unit #14-08-001-1051, Rio Arriba County, New Mexico, was approved by the regulatory bodies on the following dates:

United States Geological Survey - December 29, 1965

Commissioner of Public Lands - November 19, 1965

Oil Conservation Commission - November 23, 1965

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Very truly yours,



Harry Gevertz
Supervising Landman
Land Department

HG:MB:rr

San Juan 28-6, 4.3

Drawer 1857
Roswell, New Mexico 88201

January 10, 1966

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

Attention: Mr. T. W. Bittick

Gentlemen:

The eighth revision of the Dakota participating area for the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, was approved on December 29, 1965, by the Acting Director, U. S. Geological Survey effective as of May 1, 1965.

One approved copy of the application is enclosed. You are requested to furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Sincerely yours,

Long Seal

CARL C. TRAYWICK
Acting Oil & Gas Supervisor

cc:
Washington (ltr. only)
Farmington (w/cy of appln.)
N.M.O.C.C. - Santa Fe (ltr. only)✓
Com. of Pub. Lands - Santa Fe (ltr. only)
BLM - Santa Fe (w/cy of appln.)

Drawer 1857
Roswell, New Mexico 88201

January 10, 1966

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

Attention: Mr. Sam Smith

Gentlemen:

Your 1965 plan of development dated December 14, 1965, for the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, advises that three Dakota wells were drilled and one Dakota well commenced within the unit area during 1965. The plan of development is hereby approved for record purposes subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,

CARL C. THAYWICK
Acting Oil & Gas Supervisor

cc:
Washington (w/cy of plan)
Farmington (w/cy of plan)
N.M.O.C.C. - Santa Fe (ltr. only) /
Com. of Public Lands - Santa Fe (ltr. only)

El Paso Natural Gas Company

MAIN OFFICE OCC

El Paso, Texas 79999

December 14, 1965

JAN 24 AM 8:24

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

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

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

Re: San Juan 28-6 Unit No. 14-08-001-1051
Rio Arriba County, New Mexico
1965 DRILLING PROGRAM

Gentlemen:

By letter dated December 4, 1964, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program covering the captioned unit for the calendar year 1964. This Program provided for the drilling of two Dakota wells by a Sub-Operator under the provisions of Section 13 of the Unit Agreement. Both wells were found to be commercial and are now included in the Dakota Participating Area.

El Paso Natural Gas Company is submitting this Program at this late time in the year due to a controversy with one of the working interest owners regarding Dakota drilling within the unit. These differences have not yet been resolved. However, the Unit Operator has drilled two Dakota wells in the unit during 1965 pursuant to directions of the United States Geological Survey. Such wells are within the existing Dakota Participating Area at the following locations:

1. E/2 Section 24, Township 28 North, Range 6 West: Drilled to prevent unit drainage by the San Juan 28-5 Unit No. 35 Dakota well in the SW/4 Section 19, Township 28 North, Range 5 West.

2. E/2 Section 25, Township 28 North, Range 6 West: Drilled to prevent unit drainage by the San Juan 28-5 Unit No. 58 Dakota well in the SW/4 Section 30, Township 28 North, Range 5 West.

Beta Development Company has completed one additional Dakota well, under the terms of a Designation of Sub-Operator, in the SE/4 Section 10, Township 28 North, Range 6 West. In addition, El Paso Natural Gas Company has commenced a Dakota well in the E/2 Section 22 under the terms of an agreement with Skelly Oil Company.

The Geological Survey also required that a well be drilled in the SW/4 Section 8, Township 27 North, Range 6 West to prevent unit drainage by the Rincon Unit No. 161 Dakota well in the NE/4 Section 17, Township 27 North, Range 7 West. After careful evaluation of available information on wells in the area, including pressure, production and reserve data, the Geological Survey concurred in the Unit Operator's position that a well drilled in Section 8 would not return a reasonable profit on the investment required. Therefore, the Survey's demand for a protective well in Section 8 was rescinded by letter dated October 19, 1965.

Inasmuch as the working interest owners of the San Juan 28-6 Unit have requested no further drilling, El Paso Natural Gas Company, as Unit Operator, respectfully submits that drilling obligations within the subject unit for the current year have been fulfilled.

As of this date the total number of wells in the San Juan 28-6 Unit is as follows:

Pictured Cliffs	7
Mesaverde	71
Dual, Pictured Cliffs-Mesaverde	15
Dual, Mesaverde-Dakota	1
Dakota	14
Non-Commercial: Pictured Cliffs	0
Mesaverde	1
Plugged and Abandoned	1
	<u>110</u>

El Paso Natural Gas Company, as Unit Operator, will still 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 Drilling Program are being sent to the working interest owners on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
Sam Smith, Manager
Land Department

SS:MB:rr
Attachments

APPROVED:

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

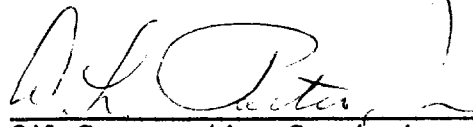
DATE: _____

APPROVED:

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

DATE: _____

APPROVED:



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

DATE: Jan 28, 1966

The foregoing approvals are for the 1965 Drilling Program for the San Juan 28-6 Unit, No. 14-08-001-1051, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Beta Development Company
Post Office Box 1659
Midland, Texas

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Continental Oil Company
Attention: Mr. H. D. Haley
Post Office Box 1621
Durango, Colorado

El Paso Natural Gas Products Co.
Attention: Mr. Roland L. Hamblin
Post Office Box 3986
Odessa, Texas

Estate of G. F. Harrington
Central National Bank & Trust Co. of
Des Moines, Iowa, Trustee & Executor
5th and Locust Streets
Des Moines, Iowa

Mr. T. F. Harrington
c/o T. H. Harrington
Post Office Box 4026, Station "A"
Albuquerque, New Mexico

Mrs. Catherine B. McElvain
Individually and as Executrix of the
Estate of T. H. McElvain, Deceased
Box 2148
Santa Fe, New Mexico

Mr. Forrest B. Miller and
Mrs. Mabelle M. Miller
220 Shelby Street
Santa Fe, New Mexico

Pan American Petroleum Corporation (7)
Attention: Mr. T. M. Curtis
Security Life Building
Denver, Colorado 80202

Tenneco Oil Company
Attention: Mr. R. E. Siverson
Post Office Box 1714
Durango, Colorado

Phillips Petroleum Company
Attention: Mr. R. A. Wogast
1300 Security Life Building
Denver, Colorado 80202

Pubco Petroleum Corporation
Attention: Mr. Gilbert J. Sevier
Attention: Mr. Robert C. Youngmun
Post Office Box 1419
Albuquerque, New Mexico 87103

Mr. H. K. Riddle
1409 Mesilla, NE
Albuquerque, New Mexico

Rincon Oil & Gas Corporation
1126 Mercantile Securities Bldg.
Dallas, Texas

Skelly Oil Company
Attention: Mr. V. E. Bartlett
Post Office Box 4115, Station "A"
Albuquerque, New Mexico

Skelly Oil Company
Attention: Mr. T. F. Thompson
Skelly Building
Tulsa, Oklahoma

Sinclair Oil & Gas Company (3)
Attn: Mr. S. K. Van Steenbergh
Attn: Mr. W. A. Walther, Jr.
501 Lincoln Tower Building
Denver, Colorado 80203

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

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

Beta Development Company
Attention: Mr. John Hampton
234 Petroleum Club Plaza
Farmington, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

November 23, 1965

C
O
P
Y

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

Attention: Mr. T. W. Bittick

Re: Eighth Expanded Dakota
Participating Area
San Juan 28-6 Unit, Rio
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Eighth Expansion of the Participating Area for the Dakota Formation for the San Juan 28-6 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 application is returned herewith.

Very truly yours,

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

ALP/JEK/og

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

'65 Nov 19 AM 11

November 19, 1965

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
Eighth Expanded Participating
Area - Dakota Formation

Attention: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has approved as of this date the Eighth Expanded Participating Area for the Dakota Formation, effective May 1, 1965 for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey, and Oil Conservation Commission.

We are returning one approved copy of this Application.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:

Ted Bilberry, Director
Oil and Gas Department

MMR/e

cc: United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico
Attention: Mr. John A. Anderson

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

C
O
P
Y

El Paso Natural Gas Company

El Paso, Texas 79999

November 9, 1965

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
EIGHTH EXPANDED PARTICIPATING AREA
OF THE DAKOTA FORMATION, effective
May 1, 1965

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby requests approval of the Eighth Expansion of the Participating Area for the Dakota Formation, to wit:

EIGHTH EXPANDED PARTICIPATING AREA - Effective May 1, 1965

<u>Description of Lands</u>	<u>Acres</u>
T-28-N, R-6-W, N.M.P.M.	
Section 10: Lots 1, 2, S/2 SE/4	
Section 15: E/2	461.65

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #117 Well, located 1,545' from the South line and 1,700' from the East line of Section 10, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded

on April 14, 1965, and completed May 13, 1965, at a total depth of 7,743'. The Dakota Formation from 7,538' - 7,542'; 7,576' - 7,580'; 7,620' - 7,633'; 7,666' - 7,672'; 7,689' - 7,693'; 7,704' - 7,710'; 7,719' - 7,725' was treated with a sand-water fracturing process. The well was shut-in on May 17, 1965, and after being shut-in for seven (7) days the Dakota Formation was tested on May 24, 1965, and after a three (3) hour blow-down period the well gauged 4,654 MCFGPD through a 3/4" choke and 5,838 MCFGPD by the calculated absolute open-flow method with a SIPT of 2,461 psia and a SIPC of 2,476 psia.

The San Juan 29-6 Unit #87 Well, located 1,500' from the North line and 880' from the East line of Section 33, Township 29 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on March 8, 1965, and completed on May 4, 1965, at a total depth of 7,813'. The Dakota Formation from 7,628' - 7,644'; 7,670' - 7,673'; 7,682' - 7,685'; 7,703' - 7,709'; 7,724' - 7,732', was treated with a sand-water fracturing process. The well was shut-in on May 6, 1965, and after being shut-in for seven (7) days was tested on May 13, 1965, and after a three (3) hour blow-down period gauged 4,011 MCFGPD through a 3/4" choke and 4,705 MCFGPD by the calculated absolute open-flow method with a SIPT of 2,703 psia and a SIPC of 2,555 psia.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the unit and the proposed Eighth Expansion of the Dakota Participating Area.

EXHIBIT "B"

Geological Report on the Eighth Expansion of the Dakota Participating Area within the San Juan 28-6 Unit.

EXHIBIT "C"

Structural Countour Map.

EXHIBIT "D"

Schedule of Dakota Gas Production.

Attached hereto is Schedule IX showing the proposed Eighth Expanded Participating Area for the Dakota Formation in the San Juan 28-6 Unit Area. This Schedule describes the Expanded Participating Area, shows

the percentage of unitized substances allocated to each unitized tract, and the percentages of ownership in each tract.

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

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By _____
T. W. Bittick
Assistant Manager
Land Department

TWB:MB:rr
Attachments

APPROVED:

Director, United States Geological Survey
Subject to like approval by the appropriate
State Officials.

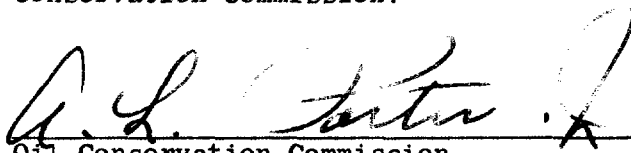
DATE: _____

APPROVED:

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

DATE: _____

APPROVED:



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

DATE: _____

The foregoing approvals are for the Eighth Expanded Participating Area of the
Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba County,
New Mexico.

El Paso Natural Gas Company

El Paso, Texas

August 17, 1965

MAIN OFFICE
1965 AUG 19
Mr. John A. Andersen
United States Geological Survey
Drawer 1857
Roswell, New Mexico

Re: Required Wells, San Juan 28-6 and
San Juan 28-7 Units,
Rio Arriba County, New Mexico

Dear Mr. Anderson:

By letters dated June 2, 1965 and June 3, 1965, you required that El Paso Natural Gas Company, as Unit Operator of the above referenced Units, commence drilling operations within 90 days on the following described wells to protect these Units from drainage. This requirement was made in accordance with Section 17 of the Unit Agreements covering the Units. These wells are as follows:

1. San Juan 28-6 Unit No. 99 Well, E/2 Section 24, T-28-N, R-6-W, N.M.P.M. This Dakota Formation Well is to be commenced by August 31, 1965, as an offset to the San Juan 28-5 Unit No. 35 Dakota Well in the SW/4 SW/4 Section 19, T-28-N, R-5-W, N.M.P.M.
2. San Juan 28-6 Unit No. 114 Well, E/2 Section 25, T-28-N, R-6-W, N.M.P.M. This Dakota Well is also to be commenced by August 31, 1965, as an offset to the San Juan 28-5 Unit No. 58 Dakota Well in the SW/4 SW/4 Section 30, T-28-N, R-5-W, N.M.P.M.
3. San Juan 28-7 Unit No. 124 Well, W/2 Section 11, T-27-N, R-7-W, N.M.P.M. This Dakota Well is to be commenced by September 1, 1965, as an offset to the Rincon Unit No. 151 Dakota Well in the NW/4 NE/4 Section 14, T-27-N, R-7-W, N.M.P.M.

These demand wells have been precessed for drilling and the necessary paper work turned over to our field personnel for immediate well commencement. However, El Paso desires to utilize only one rig in the drilling of all three wells, since successive commencement appears to be the most economical method of handling this matter.

C O P Y

Therefore, to avoid any unnecessary expense to all Unit parties by multiple rig usage in the drilling of these required wells, El Paso respectfully requests that it be granted a 90 day extension in which to commence the wells, with the understanding, however, that all three of the wells will be commenced within such extension period.

Your consideration in granting this extension will be appreciated.

Very truly yours,



T. W. Bittick
Assistant Manager
Land Department

TWB:CTR:rr

San Juan 28-6 and 28-7 Units, 4.3, 5.0
San Juan 28-6, Tract No. 27
NM 4802
NM 6551

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

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

Mr. Phillip T. McGrath
District Engineer
United States Geological Survey
208-B Main Street
Farmington, New Mexico

Mr. L. G. Truby
Mr. Bill Cutler
Mr. D. N. Canfield

El Paso Natural Gas Company

El Paso, Texas

August 16, 1965

65 AUG 19 1965

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

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

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
Approval of the SEVENTH EXPANDED
PARTICIPATING AREA, DAKOTA FORMATION
Effective August 1, 1964

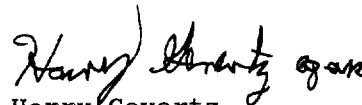
Gentlemen:

The Seventh Expanded Participating Area, Dakota Formation, San Juan 28-6 Unit was approved by the regulatory bodies on the dates set out below:

1. United States Geological Survey - August 4, 1965
2. Commissioner of Public Lands - May 19, 1965
3. Oil Conservation Commission - May 24, 1965

Copies of this letter are being sent to all the working interest owners of the San Juan 28-6 Unit.

Very truly yours,



Harry Gevertz
Regional Landman
Land Department

HG:MB:rr

SJ 28-6, 4.3



MAILED 100

65 AUG 11 PM 1 00

IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

August 10 1965

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

Attention: Mr. T. W. Bittick

Gentlemen:

The seventh revision of the Dakota participating area, San Juan 26--
unit agreement, Rio Arriba County New Mexico was approved on
August 4, 1965, by the Acting Director, Geological Survey, effective
as of August 1, 1964.

One approved copy of the application is enclosed. You are requested
to furnish the State of New Mexico and any other interested party with
appropriate evidence of this approval.

Sincerely yours

Enc. 1

CARL G. TRAYWICK
Acting Oil and Gas Supervisor

cc:

Washington (ltr. only)
BLM, Santa Fe (w/cy appln.)
Farmington (w/cy appln.)
NMOCC (ltr. only) ✓
Com. of Public Lands (ltr. only)



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form 1000
Reno, Nev. 89501

May 20, 1969

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

Attention:

Receipt is acknowledged of your letter of a designation of Sub-Operator by which El Paso Natural Gas Company, unit operator of the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, designates Neta Development Company, as a sub-operator for the drilling of a Dakota well in sec. 14, T. 28 N., R. 6 E., N.M.P.M.

The designation of Sub-Operator is accepted as a designation of Agent from El Paso Natural Gas Company. Such acceptance does not relieve El Paso Natural Gas Company of its responsibility as unit operator to assume operations for any well on the above-described land that is determined to qualify for inclusion in the Dakota participating area.

Sincerely yours,

WILLIAM J. McCARTHY
Regional Oil and Gas Supervisor

cc:
Neta Development Company
P. O. Box 139
Fort Worth, Texas

Washington (w/cy Desig. of Sub-Opr.)
ELM, Santa Fe (w/cy Designation of Sub-Opr.)
Farmington (ltr. only)
Cos. of Pub. Lands, Santa Fe (ltr. only)
WEGCC, Santa Fe (ltr. only) ✓

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

May 24, 1965

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

Attention: Mr. Harry Gevertz

Seventh Expanded Participating
Area, Dakota Formation, San Juan
28-6, Rio Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Seventh Expansion of the Dakota Formation Participating Area for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

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

ALP/JEK/og

cc: U. S. Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

Commissioner of Public Lands
Santa Fe, N. Mex.

C
O
P
Y

May 19, 1965

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

Attention: Mr. Harry Gevertz

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
Seventh Expanded Participating
Area, Dakota Formation

Gentlemen:

The Commissioner of Public Lands approves as of May 19, 1965, your Application for Approval of the Seventh Expanded Participating Area of the Dakota Formation for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and New Mexico Oil Conservation Commission.

By a copy of this letter, we are handing to the Oil Conservation Commission six copies of this approval with the request that they forward five copies to the United States Geological Survey for handling. We are retaining two copies for our file.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

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

GBH/MMR/d

cc: United States Geological Survey
P. O. Drawer 1857, Roswell, New Mexico
Attention: Mr. John A. Anderson

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

May 14, 1965

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

Attention: Mr. T. W. Bittick

Re: San Juan 28-6 Unit
San Juan County, New Mexico
1965 Plan of Development

Gentlemen:

We have not as yet received your Plan of Development for the San Juan 28-6 Unit area for the calendar year 1965. We will not approve the Seventh Expanded Dakota Participating Area until we are aware of your plans for the 1965 year. We are especially concerned with the south half of Section 2, Township 27 North, Range 6 West. In fact, we firmly believe that the South Half of Section 2 should be included in the Seventh Expanded Dakota Participating Area.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

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

GBH/MMR/d

cc: United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico
Attention: Mr. John A. Anderson

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

El Paso Natural Gas Company

El Paso, Texas

May 11, 1965

MAY 12 10 16 AM '65
STATE LAND OFFICE
SANTA FE, N.M.

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE SEVENTH
EXPANDED PARTICIPATING AREA OF THE
DAKOTA FORMATION, effective August 1, 1964

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby requests approval of the Seventh Expansion of the Participating Area for the Dakota Formation, to wit:

SEVENTH EXPANDED PARTICIPATING AREA - Effective August 1, 1964

<u>Description of Lands</u>	<u>Acres</u>
T-28-N, R-6-W, N.M.P.M.	
Section 34: S/2	
Section 35: S/2	
T-27-N, R-6-W, N.M.P.M.	
Section 2: N/2	
Section 3: S/2	
Section 4: S/2	
Section 10: W/2	1,935.26

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #105 Well is located 1050' from the South line and 1680' from the West line of Section 35, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded on June 18, 1964, and completed on August 4, 1964, at a total depth of 7581'. The Dakota Formation in the intervals between 7316' - 7319', 7338' - 7344', 7352' - 7358', 7368' - 7371', 7436' - 7442', 7444' - 7458', 7508' - 7514', 7536' - 7540' was treated with a sand-water fracturing process. This well was shut-in on August 4, 1964, and after being shut-in for seven (7) days, the Dakota Formation was tested on August 11, 1964, and following a three (3) hour blow-down period gauged 3629 MCFGPD through a 3/4" choke and 4139 MCFGPD by the calculated absolute open-flow method, with a SIPT of 2456 psia and a SIPC of 2528 psia.

The San Juan 28-6 Unit #115 Well is located 1460' from the South line and 2275' from the West line of Section 3, Township 27 North, Range 6 West, N.M.P.M. Said well was spudded on July 4, 1964, and completed on July 31, 1964, at a total depth of 7467'. The Dakota Formation in the intervals between 7224' - 7236', 7324' - 7338', 7370' - 7374', 7391' - 7397', 7422' - 7428' was treated with a sand-water fracturing process. This well was shut-in on August 4, 1964, and after being shut-in for seven (7) days, the Dakota Formation was tested on August 11, 1964, and following a three (3) hour blow-down period gauged 4135 MCFGPC through a 3/4" choke and 4938 MCFGPD by the calculated absolute open-flow method, with a SIPT of 2648 psia, and a SIPC of 2603 psia.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the unit and the proposed Seventh Expansion of the Dakota Participating Area.

EXHIBIT "B"

Geological Report on the Seventh Expansion of the Dakota Participating Area within the San Juan 28-6 Unit.

EXHIBIT "C"

Structural Contour Map.

EXHIBIT "D"

Schedule of Dakota Gas Production.

Attached hereto is Schedule VIII showing the proposed Seventh Expanded Participating Area for the Dakota Formation in the San Juan 28-6

MAY 12 10 16 AM '65
STANDARD OIL
SAN ANGELO, TEX.

Unit Area. This Schedule describes the Expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the percentages of ownership in each tract.

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

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By _____

T. W. Bittick
Assistant Manager
Land Department

TWB:MB:jm
Attachments

APPROVED:

Director, United States Geological Survey
Subject to like approval by the appropriate
State Officials.

DATE: _____

APPROVED:

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

DATE: May 14, 1965

APPROVED:

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

DATE: 5-24-65

The foregoing approvals are for the Seventh Expanded Participating Area of the Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba County, New Mexico.

STATION OFFICE
SARATOGA, N.M.
MAY 12 10 16 AM '65

El Paso Natural Gas Company

El Paso, Texas

May 11, 1965

Registered Mail

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
SEVENTH EXPANDED DAKOTA PARTICIPATING
AREA, Effective August 1, 1964

Gentlemen:

Attached are eight copies of the subject Seventh Expanded Participating Area for the Dakota Formation within the San Juan 28-6 Unit, together with the appropriate exhibits and geologic information.

If this Expansion meets with your approval, please execute all copies in the space provided, and secure the approval of the Oil Conservation Commission on all copies. Upon approval of the Oil Conservation Commission and your office, will you please retain two copies for your file, and have the Oil Conservation Commission retain one copy for their file, and forward the remaining five copies to the United States Geological Survey for approval.

Yours very truly,

Original Signed by

HARRY GEVERTZ

Harry Gevertz
Regional Landman
Land Department

EG:MB:jm
Enclosures

cc: United States Geological Survey
Oil Conservation Commission, State of New Mexico

SJ 28-6, 4.3

COPY

El Paso Natural Gas Company

El Paso, Texas

March 12, 1965

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1964 DRILLING PROGRAM

Gentlemen:

The 1964 Drilling Program for the San Juan 28-6 Unit #14-08-001-1051 was approved by the regulatory bodies on the following dates:

- | | | |
|------------------------------------|---|-------------------|
| 1. United States Geological Survey | - | December 23, 1964 |
| 2. Commissioner of Public Lands | - | January 5, 1965 |
| 3. Oil Conservation Commission | - | March 5, 1965 |

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Very truly yours,



Harry Gevertz
Regional Landman
Land Department

HG:MB:sl

San Juan 28-6 Unit 3.0

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

March 5, 1965

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

Attention: Mr. Sam Smith

Re: 1964 Drilling Program
San Juan 28-6 Unit, Rio
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1964 Drilling Program dated December 4, 1964, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico

El Paso Natural Gas Company

El Paso, Texas

February 16, 1965

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
P.O. Box 1837
Roswell, New Mexico

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

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

Re: FIFTH AND SIXTH REVISIONS
DAKOTA PARTICIPATING AREA,
SAN JUAN 28-6 UNIT,
RIO ARriba COUNTY, NEW MEXICO

Gentlemen:

The Fifth and Sixth Revisions of the Dakota Participating Area for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, were approved by the regulatory bodies on the following dates:

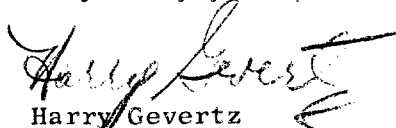
United States Geological Survey - February 1, 1965

Oil Conservation Commission - November 5, 1964

Commissioner of Public Lands - November 3, 1964

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Very truly yours,


Harry Gevertz
Regional Landman
Land Department

HG:MB:sl

SJ 28-6, 4.3



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

February 9, 1965

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

Attention: Mr. T. W. Bittick

Gentlemen:

The fifth and sixth revisions of the Dakota participating area, San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, were approved by the Acting Director, Geological Survey, on February 1, 1965, effective as of June 1 and October 1, 1963, respectively.

One approved copy of your application is enclosed. You are requested to furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SGD.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

cc:

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

January 5, 1965

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

Re: San Juan 28-6 Unit
Rio Arriba County,
New Mexico
1964 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

Your 1964 Plan of Development received in this office December 10, 1964, for the San Juan 28-6 Unit Area, proposing the drilling of two Dakota wells, has been approved on this date subject to like approval by the United States Geological Survey, these wells have previously been drilled and completed.

We wish to call to your attention that under the terms of the Unit Agreement no wells are to be drilled except under a Plan of Development, therefore, we would suggest that you file a Plan of Development for the year 1965 at your earliest convenience.

We are returning four (4) approved copies of this Plan.

El Paso Natural Gas Company
Attention: Mr. Sam Smith
January 5, 1965
- page 2 -

Very truly yours,

GUYTON S. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:
Ted Bilberry, Director
Oil & Gas Department

GSH/mmr/v

CC:

United State Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

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

Drawer 1857
Roswell, New Mexico 88201

December 23, 1964

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

Attention: Mr. Sam Smith

Gentlemen:

Your 1964 plan of development dated December 4, 1964, for the San Juan 28-6 unit area, Rio Arriba County, New Mexico, proposing the drilling of two Dakota wells, has been approved on this date subject to like approval by the appropriate State officials. Our records indicate the wells have now been drilled and completed.

The 28-6 unit area is subject to drainage in the E $\frac{1}{2}$ sec. 24, E $\frac{1}{2}$ sec. 25, T. 28 N., R. 6 W., and S $\frac{1}{2}$ sec. 8, T. 27 N., R. 6 W., by Dakota wells in the San Juan 28-5 and Kincon unit areas. Your 1965 plan of development for the San Juan 28-6 unit should provide for the drilling of the wells necessary to protect the unit area from drainage at the above described locations.

Two approved copies of the 1964 plan are enclosed.

Sincerely yours,

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

cc:

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

El Paso Natural Gas Company

El Paso, Texas

December 4, 1964

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1964 DRILLING PROGRAM

Gentlemen:

By letter dated December 20, 1963, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program covering the captioned Unit for the calendar year of 1963. This Program provided for the drilling of three Dakota Wells during 1963 by Sub-Operators under the provisions of Section 13 of the Unit Agreement. All of these wells have been completed, were found to be commercial and will occasion the Fifth and Sixth Expansions of the Dakota Participating Area. These Expansions have been prepared and submitted to the Regulatory Bodies for approval.

Therefore, the total number of wells that have been drilled in the San Juan 28-6 Unit on acreage committed to the Unit or on acreage pooled and communitized with committed acreage, including the wells drilled in 1964 and hereafter discussed, is as follows:

Pictured Cliffs, Commercial	7
Pictured Cliffs-Mesaverde, Commercial	15
Mesaverde, Commercial	71
Mesaverde, Non-Commercial	1
Dakota, Commercial	11
Dakota, Plugged and Abandoned	1
Mesaverde-Dakota	<u>1</u>
TOTAL	107

The filing of this Program was delayed until it could be determined how many Unit Development wells would be drilled by the Dakota Working Interest Owners as Sub-Operators under the provisions of Section 13 of the Unit Agreement. This determination has now been made, therefore, El Paso Natural Gas Company, as Unit Operator, hereby submits a Drilling Program providing for the drilling of the following described Dakota Formation wells during the calendar year of 1964:

<u>WELL NAME</u>	<u>DEDICATION</u>	<u>SUB-OPERATOR</u>
1. San Juan 28-6 Unit #105	S/2 Sec. 35, T-28-N, R-6-W	Beta Development Co.
2. San Juan 28-6 Unit #115	S/2 Sec. 3, T-27-N, R-7-W	Beta Development Co.

All of the working interest owners were contacted and there were no other requests made for further drilling during 1964.

El Paso Natural Gas Company, as Unit Operator, will still 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 Drilling Program are being sent to the working interest owners on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By _____
Sam Smith, Manager
Land Department

SS:MB: kp

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

DATE: _____

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

DATE: _____

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

DATE: _____

The foregoing approvals are for the 1964 Drilling Program for the San Juan 28-6
Unit, #14-08-001-1051, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Beta Development Co.
Attention: Mr. Sam H. Snoddy
P. O. Box 1659
Midland, Texas

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Continental Oil Company
Attention: Mr. H. D. Haley
P. O. Box 3312
Durango, Colorado

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

Estate of G. F. Harrington
Central National Bank & Trust Co. of
Des Moines, Iowa, Trustee & Executor
5th and Locust Streets
Des Moines, Iowa

Mr. T. F. Harrington
c/o T. H. Harrington
P. O. Box 4026, Station "A"
Albuquerque, New Mexico

Mrs. Catherine B. McElvain,
Individually and as Executrix of the
Estate of T. H. McElvain, Deceased
Box 2148
Santa Fe, New Mexico

Mr. Forrest B. Miller and
Mrs. Mabelle M. Miller
220 Shelby Street
Santa Fe, New Mexico

Pan American Petroleum Corporation
Attention: Mr. T. M. Curtis
P. O. Box 480
Farmington, New Mexico

Phillips Petroleum Company
Attention: Mr. A. J. Hintze
623 Frank Phillips Building
Bartlesville, Oklahoma

Phillips Petroleum Company
Attention: Mr. C. W. Corbett
1200 Denver Club Building
Denver 2, Colorado

Pubco Petroleum Corporation
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 1419
Albuquerque, New Mexico

Mr. H. K. Riddle
1409 Mesilla, N.E.
Albuquerque, New Mexico

Rincon Oil & Gas Corporation
1126 Mercantile Securities Building
Dallas 1, Texas

Skelly Oil Company
Attention: Mr. T. F. Thompson
P. O. Box 1650
Tulsa 2, Oklahoma

Sinclair Oil & Gas Company
P. O. Box 4005
Albuquerque, New Mexico

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

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

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

Skelly Oil Company
Attention: Mr. Harvey B. Hunt, Jr.
P. O. Box 4115, Station "A"
Albuquerque, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

543

November 5, 1964

C
O
P
Y

El Paso Natural Gas Company
Box 1492
El Paso, Texas

Attention: Mr. Harry Gevertz

Re: Fifth and Sixth Expanded
Dakota Participating
Areas, San Juan 28-6 Unit,
Rio Arriba County, New
Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Fifth and Sixth Expanded Participating Areas, Dakota Formation, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

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

ALP/JEK/og

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

NOV 4 1964

November 4, 1964

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

Re: San Juan 28-6 Unit
Sic Arriba County, New Mexico
Fifth and Sixth Expanded
Participating Areas
Dakota Formation

Attention: Mr. Harry Gevertz

Gentlemen:

The Commissioner of Public Lands approved as of November 3, 1964, your Application for the Fifth and Sixth Expansion of the Dakota Participating Areas, for the San Juan 28-6 Unit, Sic Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are handing six approved copies of this Application to the Oil Conservation Commission requesting them to forward at least five copies to the United States Geological Survey.

EL Paso Natural Gas Company
Attention: Mr. Harry Gevertz
November 4, 1964
- page 2 -

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
Tom Gilberry, Director
Oil & Gas Department

ESW/mmr/v

cc:

United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

Oil Conservation Commission
Santa Fe, New Mexico

El Paso Natural Gas Company

El Paso, Texas

October 19, 1964

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE FIFTH
AND SIXTH EXPANDED PARTICIPATING AREAS
OF THE DAKOTA FORMATION, effective
June 1, 1963 and October 1, 1963,
respectively, and NOTICE OF COMPLETION
OF ADDITIONAL WELL, DAKOTA FORMATION.

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby requests approval of the Fifth and Sixth Expansions of the Participating Area for the Dakota Formation, to wit:

FIFTH EXPANDED PARTICIPATING AREA - Effective June 1, 1963

<u>Description of Lands</u>	<u>Acres</u>
T-28-N, R-6-W, N.M.P.M. Section 33: N/2	320.00

These lands are proven to be productive by the following:

The San Juan 28-6 Unit No. 116 (formerly the McPherson #1) Well is located 990' from the North line and 1650' from the West line of Section 33, Township 28 North, Range 6 West, N.M.P.M. Delhi-Taylor Oil Corporation, as Sub-Operator, began operations to deepen said well from its original total depth of 5902' on March 22, 1963, and completed the deepening thereof on June 3, 1963, at a total

depth of 7980'. The Dakota Formation in the intervals between 7643' - 7656', 7739' - 7758', 7779' - 7789', 7802' - 7868' was treated with a sand-water fracturing process. The Dakota Formation was tested on June 3, 1963, and following a three (3) hour blow-down period gauged 4831 MCFGPD through a 3/4" choke and 5569 MCFGPD by the calculated absolute open-flow method, with a SIPT of 2325 psia and a SIPC of 2331 psia.

SIXTH EXPANDED PARTICIPATING AREA - Effective October 1, 1963

<u>Description of Lands</u>	<u>Acres</u>
T-28-N, R-6-W, N.M.P.M.	1,920.00
Section 23: W/2	
Section 26: All	
Section 27: S/2	
Section 34: N/2	
Section 35: N/2	

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #113 Well is located 790' from the South line and 1850' from the West line of Section 26, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded on September 17, 1963, and completed on October 20, 1963, at a total depth of 7905'. The Dakota Formation in the intervals between 7642' - 7658', 7748' - 7764', 7790' - 7794', 7814' - 7830' was treated with a sand-water fracturing process on October 11, 1963. This well was shut-in on October 23, 1963, and after being shut-in for seven (7) days, the Dakota Formation was tested on October 30, 1963, and following a three (3) hour blow-down period gauged 2725 MCFGPD through a 3/4" choke and 2801 MCFGPD by the calculated absolute open-flow method, with a SIPT of 2666 psia. A production packer was set at 7623'.

In support of these applications, the following listed Exhibits are made a part hereof:

EXHIBIT "A"

Ownership map reflecting the boundaries of the unit and the proposed Fifth and Sixth Expansions of the Dakota Participating Area.

EXHIBIT "B"

Geological Report on the Fifth and Sixth Expansions of the Dakota Participating Area within the San Juan 28-6 Unit.

EXHIBIT "C"

Structural Contour Map.

EXHIBIT "D"

Schedule of Dakota Gas Production.

Attached hereto are Schedules VI and VII showing the proposed Fifth and Sixth Expanded Participating Areas for the Dakota Formation in the San Juan 28-6 Unit Area. These Schedules describe the Expanded Participating Area, show the percentage of unitized substances allocated to each unitized tract, and the percentages of ownership in each tract.

If these Fifth and Sixth Expanded Participating Areas of the Dakota Formation meet with your approval, please indicate such approval in the space provided and return an approved copy hereof for our files.

Further, pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, has determined on the date indicated that one (1) additional well capable of producing unitized substances from the Dakota Formation has been completed upon acreage committed to the San Juan 28-6 Unit. This well is as follows:

The San Juan 28-6 Unit #102 Well is located 1850' from the North line and 790' from the East line of Section 26, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded on September 18, 1963, and completed on October 25, 1963, at a total depth of 7983'. The Dakota Formation in the intervals between 7694' - 7710', 7790' - 7804', 7860' - 7868' was treated with a sand-water fracturing process. This well was shut-in on October 28, 1963, and after being shut-in for seven (7) days, the Dakota Formation was tested on November 4, 1963, and following a three (3) hour blow-down period gauged 3095 MCFGPD through a 3/4" choke and 3405 MCFGPD by the calculated absolute open-flow method, with a SIPT of 2773 psia and a SIPC of 2763 psia.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By


T. W. Bittick

Assistant Manager
Land Department

TWB:MB:js
Attachments

APPROVED: _____

Director, United States Geological Survey
Subject to like approval by the appropriate
State Officials.

DATE: _____

APPROVED: _____

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

DATE: November 3, 1964

APPROVED: _____

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

DATE: 11/5/64

The foregoing approvals are for the Fifth and Sixth Expanded Participating Areas of the Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba County, New Mexico.

El Paso Natural Gas Company

El Paso, Texas 79999

October 29, 1964

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE FIFTH
AND SIXTH EXPANDED PARTICIPATING AREAS
OF THE DAKOTA FORMATION, effective
June 1, 1963 and October 1, 1963,
respectively, and NOTICE OF COMPLETION
OF ADDITIONAL WELL, DAKOTA FORMATION

Gentlemen:

Attached are eight copies of the subject Fifth and Sixth Expanded Participating Areas for the Dakota Formation for the San Juan 28-6 Unit, together with the appropriate exhibits and geological information.

If these Expansions meet with your approval, please execute all copies in the space provided and secure the approval of the Oil Conservation Commission on all copies thereof. Upon approval of the Oil Conservation Commission and your office, will you please retain two copies for your files and have the Oil Conservation Commission retain one copy for their files and forward the remaining five copies to the United States Geological Survey for approval.

Very truly yours,

Harry Gevertz
Harry Gevertz
Regional Landman
Land Department

HG:MB:js
Enclosures

cc: United States Geological Survey
Oil Conservation Commission

COPY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

1964 JUL 9 1837
Roosevelt, New Mexico 88201

July 7, 1964

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

Gentlemen:

We hereby acknowledge receipt of four copies of a Designation of Sub-Operator by which El Paso Natural Gas Company, unit operator of the San Juan 25-6 unit agreement, San Juan County, New Mexico, designates Beta Development Company, as a sub-operator for the drilling of a Dakota well in the S $\frac{1}{4}$ sec. 3, T. 27 N., R. 6 W., N.M.P.M.

The Designation of Sub-Operator is hereby accepted as a Designation of Agent from El Paso Natural Gas Company. Such acceptance does not relieve El Paso Natural Gas Company of its responsibility as unit operator to assume operations for any well on the above described land that is determined to qualify for inclusion in the Dakota participating area.

Sincerely yours,

(Orig.Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

cc:

Beta Development Company
P. O. Box 189
Fort Worth, Texas

Washington (w/cy Desig. of Sub-Opr.)
ELM, Santa Fe (w/cy Desig. of Sub-Opr.)
Farmington (ltr. only)
Com. of Pub. Lands, Santa Fe (ltr. only)
RDCC, Santa Fe (ltr. only) ✓

543
MAIN OFFICE OCC

1964 JUN 16 AM 7:58

June 10, 1964

Beta Development Company
c/o Southwest Production Company
234 Petroleum Club Plaza
Farmington, New Mexico

Attention: Mr. John T. Hampton

Gentlemen:

In accordance with previous conversations and agreements we are furnishing you eight executed copies of a Designation of Sub-Operator for the drilling of the following Dakota wells in the San Juan 28-0 Unit, Rio Arriba County, New Mexico:

1. S/2 Section 35, T-28-N, R-6-W, N.M.P.M.
2. W/2 Section 3, T-27-N, R-6-W, N.M.P.M.
3. E/2 Section 3, T-27-N, R-6-W, N.M.P.M.

After these instruments have been executed, it will be necessary that you file three copies each with the United States Geological Survey, one copy with the Oil Conservation Commission and two copies with the Commissioner of Public Lands. Please return one fully executed copy of each to El Paso Natural Gas Company and retain one copy of each for your files.

We wish to point out that the wells to be drilled under these designations must be completed in a manner satisfactory to the Oil Conservation Commission and the United States Geological Survey before El Paso Natural Gas Company can take over operation of said wells as Unit Operator.

If we can be of any further assistance, do not hesitate to call on us.

Very truly yours,

Charles F. Richardson
Charles F. Richardson
Area Coordinator
Land Department

CTR:MB:ep

cc: United States Geological Survey
Oil Conservation Commission
Commissioner of Public Lands

SJ 28-0, 3-0

Nd 3590, 6590, 6690

El Paso Natural Gas Company

El Paso, Texas

May 11, 1964

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
P. O. Box 1837
Roswell, New Mexico

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

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

RE: THIRD AND FOURTH REVISIONS
DAKOTA PARTICIPATING AREA
SAN JUAN 28-6 UNIT
RIO ARriba COUNTY, NEW MEXICO

Gentlemen:

The Third and Fourth Revisions of the Dakota Participating Area for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, were approved by the regulatory bodies on the following dates:

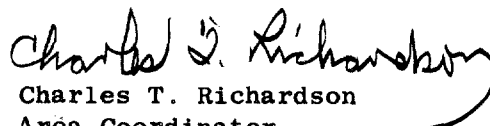
United States Geological Survey - April 22, 1964

Oil Conservation Commission - February 6, 1964

Commissioner of Public Lands - February 4, 1964

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Very truly yours,


Charles T. Richardson
Area Coordinator
Land Department

CTR:MB:fsc

SJ 28-6 (3.0)



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

543

Drawer 1857
Roswell, New Mexico 88201

May 3, 1964

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

Attention: Mr. T. W. Bittick

Gentlemen:

The third and fourth revisions of the Dakota participating area for the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, were approved by the Acting Director on April 22, 1964, effective as of October 1 and December 1, 1962, respectively.

One approved copy of the application is enclosed. You are requested to furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Sincerely yours,

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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

54
RECEIVED
MAY 14 1964

El Paso Natural Gas Company

El Paso, Texas

April 16, 1964

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
P. O. Box 1837
Roswell, New Mexico

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

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

Re: San Juan 28-6 Unit
1963 Drilling Program
Rio Arriba County, New Mexico

Gentlemen:

The 1963 Drilling Program for the San Juan 28-6 Unit was approved by the regulatory bodies on the following dates:

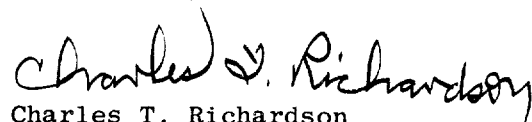
United States Geological Survey - December 30, 1963

Commissioner of Public Lands - April 1, 1964

Oil Conservation Commission - April 8, 1964

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Very truly yours,



Charles T. Richardson
Area Coordinator
Land Department

CTR:MB:fsc

542

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

April 8, 1964

C
O
P
Y

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

Attention: Mr. Sam Smith

Re: 1963 Drilling Program
San Juan 28-6 Unit,
Rio Arriba County, New
Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1963 Drilling Program for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

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

ALP/JEK/og

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

OFFICE 000

1964 APR 2 PM 2:19

Mr. [Name], [Address]

Enclosed for [Name]
[Address]
[City, State]

Mr. [Name]
[Address]
[City, State]

Attention: Mr. Sam [Name]

Enclosure.

The Commission of Public Lands approved on April 1, 1964, the 1963 drilling program for the [Name] 18-6 Unit, Rio Arriba County, New Mexico.

We are returning the enclosed copy of this letter.

Very truly yours,

H. W. [Name] WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
(Mrs.) Marian M. Shea, Supervisor
Post Division

AMG/mm/v

cc: United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

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

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

243

February 5, 1964

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

Re: Third and Fourth Expanded
Participating Areas, Dakota
Formation, San Juan 28-6
Unit, Rio Arriba County,
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Third and Fourth Expansions of the Dakota Participating Area for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

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

ALP/JEK/og

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

February 3, 1964

El Paso Natural Gas Company
P.O. Box 1101
El Paso, Texas

Dear Sirs:
Rio Arriba County, New Mexico

Attention: Mr. Charles W. Davidson

Gentlemen:

The Commissioner of Public Lands has approved as of this date the Third and Fourth Expansion Participating Areas for the Denver Formation, Section 18-6 East, Rio Arriba County, New Mexico. The Third Expansion to be effective as of October 1, 1964 and the fourth expansion December 1, 1962.

We are handing six approved copies to the Oil Conservation Commission and requesting them to transmit all but one to the United States Geological Survey for their consideration.

Very truly yours,

C. W. DAVIDSON
COMMISSIONER OF PUBLIC LANDS

OR:

(Mr. J. Arthur M. Goss, Supervisor
Oil Division)

Gas/mmcr/v

cc: Oil Conservation Commission

United States Geological Survey
Roswell, New Mexico

February 4, 1964

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico

Attention: Mr. Charles T. Richardson

Gentlemen:

The Commissioner of Public Lands has approved as of this date the Third and Fourth Expanded Participating Areas for the Dakota Formation, San Juan 28-6 Unit, Rio Arriba County, New Mexico. The Third Expansion to be effective as of October 1, 1962 and the Fourth Expansion December 1, 1962.

We are handing six approved copies to the Oil Conservation Commission and requesting them to transmit all but one to the United States Geological Survey for their consideration.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
(Mrs.) Marian M. Rhea, Supervisor
Unit Division

ESW/mm/v

cc: Oil Conservation Commission

United States Geological Survey
Roswell, New Mexico

El Paso Natural Gas Company

El Paso, Texas

January 8, 1964

543

Registered Mail

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE THIRD
AND FOURTH EXPANDED PARTICIPATING
AREAS OF THE DAKOTA FORMATION, Effective October 1, 1962 and December 1, 1962, respectively

Gentlemen:

Attached are eight copies of the subject Third and Fourth Expanded Participating Areas for the Dakota Formation for the San Juan 28-6 Unit, together with the appropriate exhibits and geological information.

If these Expansions meet with your approval, please execute all copies in the space provided and secure the approval of the Oil Conservation Commission on all copies thereof. Upon approval of the Oil Conservation Commission and your office, will you please retain two copies for your files and have the Oil Conservation Commission retain one copy for their files and forward the remaining five copies to the United States Geological Survey for approval.

Very truly yours,

Charles T. Richardson
Charles T. Richardson
Area Coordinator
Land Department

CTR:MB:js
Attachment

cc: United States Geological Survey
Oil Conservation Commission

San Juan 28-6, 4.3

COPY

El Paso Natural Gas Company

El Paso, Texas

January 8, 1964

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE THIRD
AND FOURTH EXPANDED PARTICIPATING AREAS
OF THE DAKOTA FORMATION, effective
October 1, 1962 and December 1, 1962,
Respectively.

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby requests approval of the Third and Fourth Expansions of the Participating Area for the Dakota Formation, to wit:

THIRD EXPANDED PARTICIPATING AREA - Effective October 1, 1962

<u>Description of Lands</u>	<u>Acres.</u>
T-27-N, R-6-W, N.M.P.M.	1,760.00
Section 1: All	
Section 7: SE/4	
Section 8: S/2	
Section 9: S/2	
Section 15: S/2	

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #109 Well is located 890' from the North line and 1460' from the East line of Section 1, Township 27 North, Range 6 West, N.M.P.M. Said well was spudded on July 31, 1962, and completed on August 25, 1962, at a total depth of

7775'. The Dakota Formation in the intervals between 7514' - 7518', 7536' - 7540', 7627' - 7631', 7641' - 7645', 7675' - 7679', 7698' - 7704' was treated with a sand-water fracturing process on August 23, 1962. This well was shut-in on October 15, 1962, and after being shut-in for ten (10) days, the Dakota Formation was tested on October 25, 1962, and following a three (3) hour blow-down period gauged 5399 MCFGPD through a 3/4" choke and 7264 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2684 psia and an SIPC of 2683 psia.

The Rincon Unit #179 Well, located 1490' from the North line and 1540' from the East line of Section 16, Township 27 North, Range 6 West, Rio Arriba County, New Mexico was spudded on August 18, 1962, and completed on September 21, 1962 at a total depth of 7819'. The Dakota Formation from 7519' - 7523', 7537' - 7541', 7632' - 7636', 7648' - 7652', 7688' - 7692' was treated with a sand-water fracturing process. The well was shut-in on September 21, 1962, and after being shut-in for fourteen (14) days the Dakota Formation was tested on October 5, 1962, and following a three (3) hour blow-down period gauged 2992 MCFGPD through a 3/4" choke and 3201 MCFGPD by the calculated absolute open-flow method with an SIPT of 2645 psia and an SIPC of 2630 psia.

The Rincon Unit #161 Well, located 1450' from the North line and 1000' from the East line of Section 17, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on September 22, 1962, and completed on October 13, 1962, at a total depth of 7740'. The Dakota Formation from 7440' - 7444', 7464' - 7468', 7552' - 7564', 7600' - 7604', 7642' - 7646' was treated with a sand-water fracturing process. The well was shut-in on October 13, 1962, and after being shut-in for ten (10) days the Dakota Formation was tested on October 23, 1962, and following a three (3) hour blow-down period gauged 4162 MCFGPD through a 3/4" choke and 4618 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2273 psia and an SIPC of 2490 psia.

The Rincon Unit #181 Well, located 1550' from the North line and 1750' from the East line of Section 22, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on August 14, 1962, and completed on September 14, 1962, at a total depth of 7704'. The Dakota Formation from 7460' - 7464', 7480' - 7484', 7542' - 7546', 7576' - 7580', 7595' - 7599', 7643' - 7649' was treated with a sand-water fracturing process. The well was shut-in on September 14, 1962, and after being shut-in for thirteen (13) days the Dakota Formation was tested on September 27, 1962, and following a three (3) hour blow-down period gauged 4681 MCFGPD through a 3/4" choke and 5271

MCFGPD by the calculated absolute open-flow method, with an SIPT of 2540 psia and an SIPC of 2617 psia.

FOURTH EXPANDED PARTICIPATING AREA - Effective December 1, 1962

<u>Description of Lands</u>	<u>Acres</u>
T-27-N, R-6-W, N.M.P.M.	1,760.00
Section 7: NE/4	
Section 8: N/2	
Section 9: N/2	
Section 15: N/2	
Section 25: All	

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #110 Well is located 1550' from the South line and 990' from the West line of Section 25, Township 27 North, Range 6 West, N.M.P.M. Said well was spudded on October 15, 1962, and completed on November 13, 1962, at a total depth of 7686'. The Dakota Formation in the intervals between 7400' - 7406', 7424' - 7430', 7522' - 7534', 7562' - 7568', 7584' - 7590' was treated with a sand-water fracturing process on November 12, 1962. This well was shut-in on December 5, 1962, and after being shut-in for seven (7) days, the Dakota Formation was tested on December 12, 1962, and following a three (3) hour blow-down period gauged 3015 MCFGPD through a 3/4" choke and 4132 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2211 psia and an SIPC of 2438 psia.

The San Juan 28-6 Unit #111 Well is located 890' from the South line and 790' from the West line of Section 15, Township 27 North, Range 6 West, N.M.P.M. Said well was spudded on October 27, 1962, and completed on November 20, 1962, at a total depth of 7675'. The Dakota Formation in the intervals between 7396' - 7400', 7416' - 7420', 7512' - 7524', 7586' - 7598' was treated with a sand-water fracturing process on November 18, 1962. This well was shut-in on November 20, 1962, and after being shut-in for fourteen (14) days the Dakota Formation was tested on December 4, 1962, and following a three (3) hour blow-down period gauged 3703 MCFGPD through a 3/4" choke and 4087 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2588 psia and an SIPC of 2616 psia.

The San Juan 28-6 Unit #112 Well is located 990' from the South line and 1850' from the West line of Section 9, Township 27 North, Range 6 West, N.M.P.M. Said well was spudded on November 22, 1962, and completed on December 15, 1962, at a total depth of 7646'. The Dakota Formation in the intervals between 7382' - 7386', 7400' - 7404', 7494' - 7506', 7530' - 7536' was treated with a sand-water fracturing process. This well was shut-in on

December 15, 1962, and after being shut-in for fifteen (15) days, the Dakota Formation was tested on December 30, 1962, and following a three (3) hour blow-down period gauged 3364 MCFGPD through a 3/4" choke and 3863 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2606 psia and an SIPC of 2554 psia.

In support of these applications, the following listed Exhibits are made a part hereof:

EXHIBIT "A"

Ownership map reflecting the boundaries of the unit and the proposed Third and Fourth Expansions of the Dakota Participating Area.

EXHIBIT "B"

Geological Report on the Third and Fourth Expansions of the Dakota Participating Area within the San Juan 28-6 Unit.

EXHIBIT "C"

Structural Contour Map.

EXHIBIT "D"

Schedule of Dakota Gas Production.

Attached hereto are Schedules IV and V showing the proposed Third and Fourth Expanded Participating Areas for the Dakota Formation in the San Juan 28-6 Unit Area. These Schedules describe the Expanded Participating Area, show the percentage of unitized substances allocated to each unitized tract, and the percentages of ownership in each tract.

If these Third and Fourth Expanded Participating Areas of the Dakota Formation meet with your approval, please indicate such approval in the space provided and return an approved copy hereof for our files.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By T. W. Bittick
T. W. Bittick
Assistant Manager
Land Department


TWB:MB:js
Attachments

APPROVED: _____

Director, United States Geological Survey
Subject to like approval by the appropriate
State Officials.


DATE: _____

APPROVED: _____


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

DATE: February 4, 1964

APPROVED: _____


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

DATE: 2-6-64

The foregoing approvals are for the Third and Fourth Expanded Participating
Areas of the Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio
Arriba County, New Mexico.

Drawer 1857
Roswell, New Mexico 88201

December 30, 1963

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

Attention: Mr. Sam Smith

Gentlemen:

Your 1963 plan of development dated December 20, 1963, for the San Juan 28-6 unit agreement, 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. Our records indicate the three wells have now been drilled and completed.

Two approved copies of the plan are enclosed.

Sincerely yours,

CARL C. TRAYWICK
Acting Oil & Gas Supervisor

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

El Paso Natural Gas Company

El Paso, Texas

December 20, 1963

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1963 DRILLING PROGRAM

Gentlemen:

By letter dated July 31, 1962, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned Unit for the calendar year 1962. Said program provided for the drilling of one Pictured Cliffs well and one Dakota well, and these two wells were completed. Additionally, with necessary Unit Working Interest Owners' approval, El Paso Natural Gas Company, as Unit Operator, completed three Dakota wells. The completion of the above referenced Pictured Cliffs well occasioned the Fourteenth Revision of the Pictured Cliffs Participating Area. The completion of the four Dakota wells was the basis for the proposed Third and Fourth Revision of the Dakota Participating Area which are now pending approval by the Regulator Bodies. The wells completed during 1962 are as follows:

<u>Well Name:</u>	<u>Drilling Block:</u>	<u>Formation:</u>
San Juan 28-6 No. 108	W/2 Sec. 1, T-27-N, R-6-W	PC
San Juan 28-6 No. 109	E/2 Sec. 1, T-27-N, R-6-W	Dakota
San Juan 28-6 No. 112	W/2 Sec. 9, T-27-N, R-6-W	Dakota
San Juan 28-6 No. 111	W/2 Sec. 15, T-27-N, R-6-W	Dakota
San Juan 28-6 No. 110	W/2 Sec. 25, T-27-N, R-6-W	Dakota

As of this date, the total number of wells drilled in the San Juan 28-6 Unit on acreage committed to the Unit or on acreage pooled and communitized with committed acreage is as follows:

Pictured Cliffs, Commercial	7
Pictured Cliffs-Mesaverde, Commercial	15
Mesaverde, Commercial	71
Mesaverde, Non-commercial	1
Dakota, Commercial	9
Dakota, Plugged and Abandoned	1
Mesaverde-Dakota	<u>1</u>

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The filing of this Program was delayed until it could be determined how many Unit Development wells would be drilled by the Dakota Working Interest Owners as Sub-Operators under the provisions of Section 13 of the Unit Agreement. This determination has now been made; therefore, El Paso Natural Gas Company, as Unit Operator, hereby submits a Drilling Program providing for the drilling of the following described Dakota Formation wells during the period from January 1, 1963, to December 31, 1963:

<u>Well Name:</u>	<u>Dedication:</u>	<u>Sub-Operator:</u>
McPherson No. 1	N/2 Sec. 33, T-28-N,R-6-W	Delhi-Taylor Oil Corp.
San Juan 28-6 Unit No. 102	E/2 Sec. 26, T-28-N,R-6-W	Beta Development Co.
San Juan 28-6 Unit No. 113	W/2 Sec. 26, T-28-N,R-6-W	Beta Development Co.


All Working Interest Owners were advised of El Paso's desire not to drill the above described wells and no objections were offered in regard to said wells being drilled pursuant to Designations of Sub-Operator. There were no other requests for drilling by 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,

EL PASO NATURAL GAS COMPANY

By 
Sam Smith
Manager, Land Department

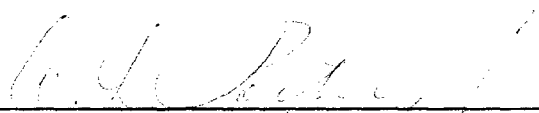
SS:MB:fsc

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

DATE: _____

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

DATE: _____

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

DATE: 

The foregoing approvals are for the 1963 Drilling Program for the San Juan 28-6
Unit, #14-08-001-1951, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Mr. Mike Abraham
814 Mercantile Bank Building
Dallas, Texas

Beta Development Co.
Attention: Mr. Sam H. Snoddy
P. O. Box 1659
Midland, Texas

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Delhi-Taylor Oil Corporation
Attention: Mr. R. L. Caldwell
2630 Fidelity Union Tower
Dallas 1, Texas

El Paso Natural Gas Products Company
Attention: Mr. Rolan Hamblin
P. O. Box 1161
El Paso, Texas

Estate of G. F. Harrington
Central National Bank & Trust Co. of
Des Moines, Iowa, Trustee & Executor
5th and Locust Streets
Des Moines, Iowa

Mr. T. F. Harrington
c/o T. H. Harrington
P. O. Box 4026, Station "A"
Albuquerque, New Mexico

Mrs. Catherine B. McElvain,
Individually and as Executrix of the
Estate of T. H. McElvain, Deceased
Box 2148
Santa Fe, New Mexico

Mr. Forrest B. Miller and
Mrs. Mabelle M. Miller
220 Shelby Street
Santa Fe, New Mexico

Pan American Petroleum Corporation
Attention: Mr. T. M. Curtis
P. O. Box 480
Farmington, New Mexico

Phillips Petroleum Company
Attention: Mr. A. J. Hintze
402 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
Attention: Mr. C. W. Corbett
1200 Denver Club Building
Denver 2, Colorado

Pubco Petroleum Corporation
Attention: Mr. Gilbert J. Sevier, Jr.
Attention: Mr. Robert C. Youngmun
P. O. Box 1419
Albuquerque, New Mexico

Mr. H. K. Riddle
1409 Mesilla, N.E.
Albuquerque, New Mexico

Rincon Oil & Gas Corporation
1126 Mercantile Securities Building
Dallas 1, Texas

Skelly Oil Company
Attention: Mr. Harvey B. Hunt, Jr.
P. O. Box 4115, Station "A"
Albuquerque, New Mexico

Skelly Oil Company
Attention: Mr. T. F. Thompson
P. O. Box 1650
Tulsa 2, Oklahoma

Sinclair Oil & Gas Company
P. O. Box 4005
Albuquerque, New Mexico

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

Southwest Production Company
3108 Southland Center
Dallas, Texas

Union Oil Company of California
Attention: Mr. C. F. Bowden
619 West Texas Street
Midland, Texas

El Paso Natural Gas Company
MAIN OFFICE OCC

El Paso, Texas
OCT 14 1963

October 9, 1963

543

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

Gentlemen:

On October 4, 1963, we requested Mr. John A. Anderson, with U.S.G.S., to return to us all copies of El Paso Natural Gas Company's Third Dakota Expansion within the San Juan 28-6 Unit so that we might revise this expansion in a manner suggested by the U.S.G.S.

It is our understanding that your office is holding our Fourth Dakota Expansion pending approval of the Third Expansion. We would appreciate your returning all copies of our Fourth Expansion to this office in order that we might incorporate our changes into one geologic report for the Third and Fourth Expansion within this Unit.

Very truly yours,

A. M. Derrick

A. M. Derrick
Reservoir Engineering Dept.

AND:LEL:mtn

cc: Mr. John A. Anderson
U.S.G.S., Drawer 1857, Roswell, New Mexico
Mrs. Marlen M. Rhea
Commissioner of Public Lands, P. O. Box 791, Santa Fe, New Mexico

OK
Returned
10-14-63

DESIGNATION OF SUB-OPERATOR

THIS DESIGNATION is made and entered into this 13th day of September, 1963, by and between EL PASO NATURAL GAS COMPANY, a Delaware corporation, whose address is Post Office Box 1492, El Paso, Texas, hereinafter sometimes referred to as "Operator", and BETA DEVELOPMENT CO., a Texas corporation, whose address is P. O. Box 189, Fort Worth, Texas, hereinafter sometimes referred to as "Sub-Operator".

WHEREAS, Operator is Unit Operator for the San Juan 28-6 Unit, No. 108-001-1051, Rio Arriba County, New Mexico; and

WHEREAS, El Paso Natural Gas Company is the holder of oil and gas operating rights as to the Dakota Formation under the following described tract of land:

Rio Arriba County, New Mexico
Township 28 North, Range 6 West, N.M.P.M.
 Section 26: NE/4
 Containing 160.00 acres, more or less; and

WHEREAS, El Paso Natural Gas Company is the holder of oil operating rights as to the Dakota Formation under the following described tract of land:

Rio Arriba County, New Mexico
Township 28 North, Range 6 West, N.M.P.M.
 Section 26: SE/4
 Containing 160.00 acres, more or less; and

WHEREAS, the above described tracts of land are committed to the terms and conditions of the San Juan 28-6 Unit Agreement and San Juan 28-6 Unit Operating Agreement; and

WHEREAS, Sub-Operator desires to drill a Dakota well on the E/2 of Section 26, Township 28 North, Range 6 West, being the above described tracts of land, pursuant to the provisions of Section thirteen (13) of the San Juan 28-6 Unit Agreement; and

WHEREAS, Sub-Operator has been furnished Notice of Operator's election not to drill the said Dakota well as Unit Operator under the terms of the San Juan 28-6 Unit Agreement; and

WHEREAS, the necessary concurrence has been obtained from the working interest owners in the above tract; and

WHEREAS, Sub-Operator has requested that Operator execute this Designation in order that said Dakota well may be drilled by Sub-Operator.

NOW, THEREFORE, in order to permit Beta Development Co. to drill the said Dakota well, El Paso Natural Gas Company, as Unit Operator of the San Juan

MAIN OFFICE OCC
1963 SEP 24 AM 8 18

28-6 Unit, hereby designates Beta Development Co. as Sub-Operator for the sole and only purpose of drilling the said Dakota well on the above described land pursuant to Section thirteen (13) of the San Juan 28-6 Unit Agreement.

Sub-Operator indicates its acceptance of this Designation by placing its signature in the space provided below and agrees to drill, complete and/or plug and abandon said Dakota well as a reasonable and prudent operator in accordance with the terms and conditions of the San Juan 28-6 Unit Agreement and the San Juan 28-6 Unit Operating Agreement and also agrees to the following conditions:

1. Notify Operator when drilling operations are commenced.
2. Furnish Operator with complete daily driller's report, at Sub-Operator's expense.
3. Furnish Operator with daily reports by telephone call or telegram at Sub-Operator's expense, as to the formation or formations penetrated during the previous day's drilling, the depth at which each formation is encountered, and the depth at which the report is made.
4. Allow representatives of Operator access to the derrick floor at all times.
5. Notify Operator of intention to core, drill stem test, run well surveys or other tests in sufficient time to enable Operator's representative to be present. Additionally it is specifically understood that El Paso Natural Gas Company will be notified in sufficient time to enable El Paso's representative to be present for the official test of the well.
6. Adequately test and/or core all possible productive formations to the satisfaction of Operator upon request.
7. Have any core having shows of oil or gas analyzed by a competent core analysis laboratory, and have such laboratory send three preliminary copies and three final copies of the analysis report to Operator.
8. Furnish Operator three field prints and five final prints of all well surveys made during drilling or upon completion of the well.
9. Permit Operator, at its cost and for its sole use, including full rig time, to make any additional surveys, including a geophysical velocity survey as it may desire.
10. Furnish Operator a representative and adequate cut of all cores and ditch samples taken during the drilling of a well.

11. Provide Operator with copies of drilling time records, hole deviation tests and all records required by the governmental agencies having jurisdiction of the well.
12. Notify Operator of any intentions to plug and abandon the well and allow Operator forty-eight (48) hours in which to concur.
13. Sub-Operator shall carry and pay for and file with Operator for its approval proper and acceptable evidence of the following described insurance:
 - a. Workmen's Compensation and/or Employer's Liability Insurance which shall comply with the laws of the State in which this agreement is to be performed and shall cover all of its employees engaged in the activities to be performed under this agreement.
 - b. Automobile Public Liability Insurance with not less than \$100/300,000.00 limits covering bodily injury and death, and property damage with a limit of not less than \$50,000.00 to cover all automotive equipment used in connection with performance of this agreement.
 - c. Public Liability Insurance covering activities performed under this agreement with bodily injury and death limits of \$100,000.00 as to any one person and \$300,000.00 as to any one accident. Property Damage Insurance with limits of \$50,000.00.
14. Furnish the United States Geological Survey all proper and necessary reports and well data in the required numbers and time periods as specified by the United States Geological Survey, with a copy to El Paso Natural Gas Company at the addresses hereafter specified.
15. Provide the Commissioner of Public Lands of the State of New Mexico and the New Mexico Oil Conservation Commission copies of all reports and other well data submitted to the United States Geological Survey.

All notices, samples, or other information required to be furnished shall be sent to:

El Paso Natural Gas Company
Post Office Box 1492
El Paso, Texas
Attention: Land Department

With a copy to:
El Paso Natural Gas Company
Post Office Box 990
Farmington, New Mexico
Attention: Area Exploration Manager

Sub-Operator shall comply with all applicable laws, rules and regulations of any governmental authority having jurisdiction over operations

performed under this Designation, and shall indemnify, protect and hold Operator harmless from and against any and all claims, demands or causes of action for injuries or death to persons or damage to property occurring in connection with or in any manner incident to operations conducted by the Sub-Operator hereunder.

Sub-Operator and Operator agree that Sub-Operator shall drill and complete or plug and abandon the subject Dakota well pursuant to the provisions of the San Juan 28-6 Unit Operating Agreement.

The drilling of the said Dakota well is subject to approval by the Oil Conservation Commission of the State of New Mexico as to privately owned lands, the Commissioner of Public Lands of the State of New Mexico as to State lands, and the Supervisor of the United States Geological Survey, Roswell, New Mexico, as to Federal and/or Indian lands.

THIS DESIGNATION shall be effective for a period of time not to exceed three (3) months from the date hereof, or until said Dakota test is completed and/or plugged and abandoned.

THIS DESIGNATION is personal and cannot be assigned in whole or in part by Sub-Operator without the written consent of Operator having first been obtained.

IN WITNESS WHEREOF, this Designation is executed as of the day and year first hereinabove written.

OPERATOR

EL PASO NATURAL GAS COMPANY

By  Attorney in Fact 

SUB-OPERATOR

BETA DEVELOPMENT CO.

ATTEST:


Secretary

By 
Vice President

STATE OF TEXAS)
)
COUNTY OF EL PASO)

The foregoing instrument was acknowledged before me this 13th
day of Sept., 1963, by Sam Smith, Attorney in
Fact for EL PASO NATURAL GAS COMPANY, a Delaware corporation, on behalf of said
corporation.

My commission expires:
NATALIE TAYLOR
Notary Public in and for El Paso County, Texas
My Commission Expires June 1, 1965

Natalie Taylor
Notary Public

STATE OF TEXAS)
)
COUNTY OF midland)

The foregoing instrument was acknowledged before me this 18
day of September, 1963, by M. B. WILSON, Vice President of BETA
DEVELOPMENT CO., a Texas corporation, on behalf of said corporation.

My commission expires:

SAM H. SNODDY
NOTARY PUBLIC, MIDLAND COUNTY, TEXAS
MY COMMISSION EXPIRES JUNE 1, 1965

Sam H. Snoddy
Notary Public

DESIGNATION OF SUB-OPERATOR

THIS DESIGNATION is made and entered into this 13th day of September, 1963, by and between EL PASO NATURAL GAS COMPANY, a Delaware corporation, whose address is Post Office Box 1492, El Paso, Texas, hereinafter sometimes referred to as "Operator", and BETA DEVELOPMENT CO., a Texas corporation, whose address is P. O. Box 189, Fort Worth, Texas, hereinafter sometimes referred to as "Sub-Operator".

WHEREAS, Operator is Unit Operator for the San Juan 28-6 Unit, No. 1-08-001-1051, Rio Arriba County, New Mexico; and

WHEREAS, El Paso Natural Gas Company is the holder of oil and gas operating rights as to the Dakota Formation under the following described tract of land:

Rio Arriba County, New Mexico

Township 28 North, Range 6, West, N.M.P.M.
Section 26: W/2

Containing 320.00 acres, more or less; and

WHEREAS, the above described tract of land is committed to the terms and conditions of the San Juan 28-6 Unit Agreement and San Juan 28-6 Unit Operating Agreement; and

WHEREAS, Sub-Operator desires to drill a Dakota well on the W/2 of Section 26, Township 28 North, Range 6 West, being the above described tract of land, pursuant to the provisions of Section thirteen (13) of the San Juan 28-6 Unit Agreement; and

WHEREAS, Sub-Operator has been furnished Notice of Operator's election not to drill the said Dakota well as Unit Operator under the terms of the San Juan 28-6 Unit Agreement; and

WHEREAS, the necessary concurrence has been obtained from the working interest owners in the above tract; and

WHEREAS, Sub-Operator has requested that Operator execute this Designation in order that said Dakota well may be drilled by Sub-Operator.

NOW, THEREFORE, in order to permit Beta Development Co. to drill the said Dakota well, El Paso Natural Gas Company, as Unit Operator of the San Juan

28-6 Unit, hereby designates Beta Development Co. as Sub-Operator for the sole and only purpose of drilling the said Dakota well on the above described land pursuant to Section thirteen (13) of the San Juan 28-6 Unit Agreement.

Sub-Operator indicates its acceptance of this Designation by placing its signature in the space provided below and agrees to drill, complete and/or plug and abandon said Dakota well as a reasonable and prudent operator in accordance with the terms and conditions of the San Juan 28-6 Unit Agreement and the San Juan 28-6 Unit Operating Agreement and also agrees to the following conditions:

1. Notify Operator when drilling operations are commenced.
2. Furnish Operator with complete daily driller's report, at Sub-Operator's expense.
3. Furnish Operator with daily reports by telephone call or telegram at Sub-Operator's expense, as to the formation or formations penetrated during the previous day's drilling, the depth at which each formation is encountered, and the depth at which the report is made.
4. Allow representatives of Operator access to the derrick floor at all times.
5. Notify Operator of intention to core, drill stem test, run well surveys or other tests in sufficient time to enable Operator's representative to be present. Additionally it is specifically understood that El Paso Natural Gas Company will be notified in sufficient time to enable El Paso's representative to be present for the official test of the well.
6. Adequately test and/or core all possible productive formations to the satisfaction of Operator upon request.
7. Have any core having shows of oil or gas analyzed by a competent core analysis laboratory, and have such laboratory send three preliminary copies and three final copies of the analysis report to Operator.
8. Furnish Operator three field prints and five final prints of all well surveys made during drilling or upon completion of the well.
9. Permit Operator, at its cost and for its sole use, including full rig time, to make any additional surveys, including a geophysical velocity survey as it may desire.
10. Furnish Operator a representative and adequate cut of all cores and ditch samples taken during the drilling of a well.

11. Provide Operator with copies of drilling time records, hole deviation tests and all records required by the governmental agencies having jurisdiction of the well.
12. Notify Operator of any intentions to plug and abandon the well and allow Operator forty-eight (48) hours in which to concur.
13. Sub-Operator shall carry and pay for and file with Operator for its approval proper and acceptable evidence of the following described insurance:
 - a. Workmen's Compensation and/or Employer's Liability Insurance which shall comply with the laws of the State in which this agreement is to be performed and shall cover all of its employees engaged in the activities to be performed under this agreement.
 - b. Automobile Public Liability Insurance with not less than \$100/300,000.00 limits covering bodily injury and death, and property damage with a limit of not less than \$50,000.00 to cover all automotive equipment used in connection with performance of this agreement.
 - c. Public Liability Insurance covering activities performed under this agreement with bodily injury and death limits of \$100,000.00 as to any one person and \$300,000.00 as to any one accident. Property Damage Insurance with limits of \$50,000.00.
14. Furnish the United States Geological Survey all proper and necessary reports and well data in the required numbers and time periods as specified by the United States Geological Survey, with a copy to El Paso Natural Gas Company at the addresses hereafter specified.
15. Provide the Commissioner of Public Lands of the State of New Mexico and the New Mexico Oil Conservation Commission copies of all reports and other well data submitted to the United States Geological Survey.

All notices, samples, or other information required to be furnished shall be sent to:

El Paso Natural Gas Company
Post Office Box 1492
El Paso, Texas
Attention: Land Department

With a copy to:
El Paso Natural Gas Company
Post Office Box 990
Farmington, New Mexico
Attention: Area Exploration Manager

Sub-Operator shall comply with all applicable laws, rules and regulations of any governmental authority having jurisdiction over operations

performed under this Designation, and shall indemnify, protect and hold Operator harmless from and against any and all claims, demands or causes of action for injuries or death to persons or damage to property occurring in connection with or in any manner incident to operations conducted by the Sub-Operator hereunder.

Sub-Operator and Operator agree that Sub-Operator shall drill and complete or plug and abandon the subject Dakota well pursuant to the provisions of the San Juan 28-6 Unit Operating Agreement.

The drilling of the said Dakota well is subject to approval by the Oil Conservation Commission of the State of New Mexico as to privately owned lands, the Commissioner of Public Lands of the State of New Mexico as to State lands, and the Supervisor of the United States Geological Survey, Roswell, New Mexico, as to Federal and/or Indian lands.

THIS DESIGNATION shall be effective for a period of time not to exceed three (3) months from the date hereof, or until said Dakota test is completed and/or plugged and abandoned.

THIS DESIGNATION is personal and cannot be assigned in whole or in part by Sub-Operator without the written consent of Operator having first been obtained.

IN WITNESS WHEREOF, this Designation is executed as of the day and year first hereinabove written.

OPERATOR

EL PASO NATURAL GAS COMPANY

By 
Attorney in Fact

SUB-OPERATOR

BETA DEVELOPMENT CO.

ATTEST:


Secretary

By 
Vice President

STATE OF TEXAS)
)
COUNTY OF EL PASO)

The foregoing instrument was acknowledged before me this 13th
day of Sept., 1963, by Sam Smith, Attorney in
Fact for EL PASO NATURAL GAS COMPANY, a Delaware corporation, on behalf of said
corporation.

My commission expires:
NATALIE TAYLOR

Notary Public in and for El Paso County, Texas
My Commission Expires June 1, 1965

Natalie Taylor
Notary Public

STATE OF TEXAS)
)
COUNTY OF Midland)

The foregoing instrument was acknowledged before me this 18
day of September, 1963, by M. R. Wilson, Vice President of BETA
DEVELOPMENT CO., a Texas corporation, on behalf of said corporation.

My commission expires:

Sam H. Snoddy
Notary Public

SAM H. SNODDY
NOTARY PUBLIC, MIDLAND COUNTY, TEXAS
MY COMMISSION EXPIRES JUNE 1, 1965

El Paso Natural Gas Company

El Paso, Texas

July 25, 1963

243

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

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

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

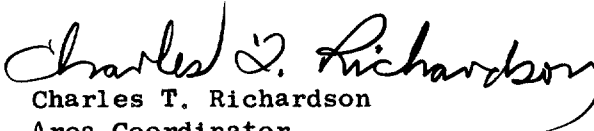
Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
FIRST AND SECOND EXPANSIONS
Dakota Formation

Gentlemen:

With reference to our letter to you of July 19, 1963, in which we advised you of the approval dates for the San Juan 28-6 Unit First and Second Expansions for the Dakota Formation, please correct a portion of the caption of said letter to read First Expansion effective October 1, 1961, Second Expansion effective January 1, 1962.

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Very truly yours,


Charles T. Richardson
Area Coordinator
Land Department

CTR:GA:js

SJ 28-6, 4.3

El Paso Natural Gas Company

El Paso, Texas

July 19, 1963

243

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
FIRST AND SECOND EXPANDED PARTICI-
PATING AREAS OF THE DAKOTA FORMATION
First Expansion effective November
1, 1961, Second Expansion effective
February 1, 1962

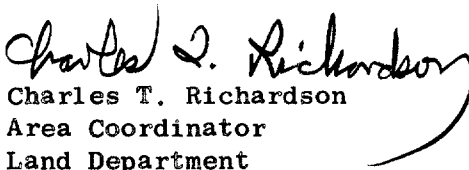
Gentlemen:

This is to advise that the above captioned Expansions were approved by the regulatory bodies on the following dates:

1. United States Geological Survey - June 18, 1963
2. Commissioner of Public Lands - July 15, 1963
3. Oil Conservation Commission - July 11, 1963

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Very truly yours,


Charles T. Richardson
Area Coordinator
Land Department

CTR:GA:js

SJ 28-6, 4.3

543

July 15, 1963

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

Re: San Juan 28-6 Unit, Rio
Arriba County, New Mexico
First and Second Expanded
Participating Areas of the
Dakota Formation

Attention: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has approved as of July 15, 1963 the First and Second Expanded Participating Areas for the Dakota formation San Juan 28-6 Unit, Rio Arriba County, New Mexico. We are handing one fully executed copy to the Oil Conservation Commission as per their request.

We are sending to you one fully executed copy of the Participating Area and four additional approval pages which are fully executed.

Very truly yours

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
(Mrs.) Marian M. Rhea, Supervisor
Unit Division

ESJW:mmr/m
encl.

cc: Oil Conservation Commission
Santa Fe, New Mexico

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

543

July 11, 1963

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

Re: First and Second Expansions
Dakota Participating Area,
San Juan 28-6 Unit, Rio
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil
Conservation Commission has this date approved the First
and Second Expansions of the Dakota Participaing Area for
the San Juan 28-6 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.

Four approved copies of the application and four
additional approval pages bearing the signature of the
Secretary-Director are being forwarded to the Commissioner
of Public Lands.

Very truly yours,

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

ALP/JEK/eg
cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico

C
O
P
Y

El Paso Natural Gas Company

El Paso, Texas

July 8, 1963

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


Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
FIRST AND SECOND EXPANDED PAR-
TICIPATING AREAS OF THE DAKOTA
FORMATION
First Expansion effective October 1,
1961. Second Expansion effective
January 1, 1962

Gentlemen:

We are enclosing four (4) copies of the Application for Approval of the First and Second Expanded Participating Areas of the Dakota Formation for the San Juan 28-6 Unit, which has been approved by the United States Geological Survey. Also enclosed are four additional approval pages and one copy of the letter from the United States Geological Survey dated June 28, 1963.

After these Applications have been approved by your office, would you please forward them to the Commissioner of Public Lands for his approval and return one fully executed copy to this office in addition to the four approval pages, in order that we may forward the four approval pages to the United States Geological Survey as requested in the attached letter.

Very truly yours,


Charles T. Richardson
Area Coordinator
Land Department

CTR:GA:ag
Enclosures

28-6 4.3

cc: Commissioner of Public Lands
State of New Mexico

July 1, 1963

United States Geological Survey
Drawer 1857
Roswell, New Mexico

Attention: Mr. John A. Anderson
Regional Oil and Gas Supervisor

Dear Mr. Anderson:

Pursuant to a request made by Mr. Charles T. Richardson of El Paso Natural Gas Company, we are transmitting to you seven(7) unapproved applications of the Third Expanded Participating Area for the Dakota Formation, San Juan Unit 28-6.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
(Mrs.) Marian M. Rhea, Supervisor
Unit Division

ESJW/mmz/m

encl:

cc: El Paso Natural Gas Company
P. O. Box 1492
El Paso, Texas
Attention: Mr. Charles T. Richardson

Oil Conservation Commission
Santa Fe, New Mexico

245

Drawer 1857
Roswell, New Mexico

June 28, 1963

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your application of November 26, 1962, requesting approval of the first and second revisions of the Dakota participating area, San Juan 28-6 unit, Rio Arriba County, New Mexico, was approved on June 18, 1963, by the Acting Director, U. S. Geological Survey, effective as of October 1, 1961, and January 1, 1962, respectively.

The application must be approved by the Commissioner of Public Lands and the Oil Conservation Commission of the State of New Mexico before the revisions are effective pursuant to Section 11 of the San Juan 28-6 unit agreement. Please furnish this office four approval pages executed by the appropriate officials of the State of New Mexico in order to complete our records.

Enclosed are four copies of the approved application. It is requested that you furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Sincerely yours,
(ENC. 4) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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

DELHI-TAYLOR OIL CORPORATION
FIDELITY UNION TOWER
DALLAS 1, TEXAS

March 13, 1963

MAIN OFFICE OCC
1963 MAR 19 AM 6:27

U. S. Geological Survey
P. O. Box 959
Farmington, New Mexico

AIR MAIL

543

Attn: Mr. P. T. McGrath

Re: San Juan Unit 28-6 (NMO-97)
N/2 Sec. 33, T28N-R6W
Rio Arriba County, N.M.

Gentlemen:

We are enclosing three copies of a Designation of Agent executed by El Paso Natural Gas Company, as Unit Operator, of the captioned unit. This designation authorizes Delhi to drill a unit well on the location shown above.

A notice of intention to drill will subsequently be filed with your office.

Sincerely,

DELHI-TAYLOR OIL CORPORATION



Millard F. Carr
Land Department

MFC:jn

cc: New Mexico Oil Conservation Commission w/enc (1) ← Copy for
P. O. Box 871
Santa Fe, New Mexico

Commissioner of Public Lands w/enc (2)
State Land Office
Santa Fe, New Mexico

Delhi-Taylor Farmington Office

DESIGNATION OF AGENT

Supervisor, Oil and Gas Operations:

The undersigned is, on the records of the Geological Survey, Unit Operator under the San Juan 28-6 Unit Agreement, Rio Arriba County, New Mexico, 14-00-001-1061, and hereby designates:

NAME: BELMI-TAYLOR OIL CORPORATION

ADDRESS: 2630 Fidelity Union Tower
Dallas 1, Texas

as its agent, with full authority to act in its behalf in complying with the terms of the Unit Agreement and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to drilling, testing, and completing a unit well in the N/2 of Section 28, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico.

It is understood that this designation of agent does not relieve the Unit Operator of responsibility for compliance with the terms of the Unit Agreement and the Oil and Gas Operating Regulations. It is also understood that this designation of agent does not constitute an assignment of any interest under the Unit Agreement or any lease committed thereto.

In case of default on the part of the designated agent, the Unit Operator will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The Unit Operator agrees promptly to notify the oil and gas supervisor of any change in the designated agent.

This designation of agent is deemed to be temporary and in no manner a permanent arrangement.

This designation is given only to enable the agent herein designated to drill the above specified unit well. Unless sooner terminated, this designation shall terminate when there is filed in the appropriate district office of the U. S. Geological Survey a completed file of all required Federal reports pertaining to subject well. It is also understood that this designation of agent is limited to field operations and does not cover administrative action requiring specific authorization of the Unit Operator.

EL PASO NATURAL GAS COMPANY
Unit Operator

MAR 12 1963

Date _____

By 
Attorney in Fact

543

MAIN OFFICE OCC

El Paso Natural Gas Company

El Paso, Texas

1963 FEB 4 AM 8 30

January 30, 1963

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Drawer 1856
Roswell, New Mexico

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
FOURTEENTH EXPANDED PARTICIPATING
AREA, Pictured Cliffs Formation
Effective December 1, 1962

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below, that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed on acreage committed to this Unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #108 Well is located 900' from the North line and 1600' from the West line of Section 1, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on October 7, 1962, and completed without tubing on November 11, 1962, at a total depth of 3382'. The Pictured Cliffs Formation between 3294' - 3300', 3276' - 3282' was treated with a sand-water fracturing process. After being shut-in for gauge on November 11, 1962, for sixteen (16) days, the well was tested on November 27, 1962, and following a three (3) hour blow-down period gauged 2530 MCFGPD through a 3/4" choke, and 2671 MCFGPD by the calculated absolute open-flow method with an SIPC of 1083 psia. The committed drilling block upon which this well is

located is described as the W/2 of Section 1, Township 27 North, Range 6 West, N.M.P.M., and consists of 320.32 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on November 27, 1962.

The San Juan 28-6 Unit #26 Well was drilled in the SE/4 SW/4 of Section 1, Township 27 North, Range 6 West, N.M.P.M., and by letter dated August 20, 1959, this well was determined to be incapable of producing unitized substances in paying quantities from the Pictured Cliffs Formation. Therefore, pursuant to the terms of Section 11(a) of the San Juan 28-6 Unit Agreement the following described acreage is admitted to the Participating Area for the Pictured Cliffs Formation as of December 1, 1962:

Township 27 North, Range 6 West, N.M.P.M.
Section 1: Lots 3,4, S/2 NW/4, N/2 SW/4, SW/4 SW/4
Containing 280.32 acres

Attached is Schedule XV showing the Fourteenth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Fourteenth Expanded Participating Area will become effective as of December 1, 1962.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By T. W. Bittick
T. W. Bittick
Assistant Manager
Land Department

TWB: JBB: js

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

January 30, 1963

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

Attention: Mr. T. W. Bittick

**Re: Third Expanded Participating
Area, Dakota Formation San
Juan 28-6 Unit, Rio Arriba
County, New Mexico**

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Third Expanded Participating Area of the Dakota Formation for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Seven approved copies of the application are being forwarded to the Commissioner of Public Lands.

Very truly yours,

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

ALP/JEK/ig

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

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

C
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El Paso Natural Gas Company

1963 JAN 30 11 21 AM
El Paso, Texas

January 28, 1963

5743

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

Re: San Juan 28-6 Unit
APPLICATION FOR APPROVAL OF THE
THIRD EXPANDED PARTICIPATING AREA
of the Dakota Formation
Effective October 1, 1962

Gentlemen:

Attached are eight (8) copies of the subject Third Revision of the Participating Area for the San Juan 28-6 Unit, together with exhibits and geological information.

It is requested, upon your approval, that you kindly sign all copies in the space provided, retaining the one (1) copy marked "O.C.C. Copy" and forward the remaining seven (7) copies to the Commissioner of Public Lands for his approval and execution. Upon the approval by the Commissioner of Public Lands, they are to retain the one (1) copy marked "C.O.P.L. Copy" and return the remaining six (6) copies to this office for our further handling in obtaining the approval of the United States Geological Survey.

After we have received fully executed and approved copies of this Expansion, we will forward one (1) fully executed and approved copy to the Commissioner of Public Lands.

Very truly yours,

Charles T. Richardson
Charles T. Richardson
Area Coordinator
Land Department

CTR: JBB: js

cc: Commissioner of Public Lands

SJ 28-6, 4.3

O.C.C. 100

El Paso Natural Gas Company

El Paso, Texas

January 22, 1963

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

Commissioner of Public Lands
Of the State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
THIRD EXPANDED PARTICIPATING AREA
OF THE DAKOTA FORMATION effective
October 1, 1962

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby requests approval of the Third Expansion of the Participating Area for the Dakota Formation, to wit:

THIRD EXPANDED PARTICIPATING AREA - Effective October 1, 1962

<u>Description of Lands</u>	<u>Acres</u>
T-27-N, R-6-W, N.M.P.M. Section 1: All	640.42

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #109 Well is located 890' from the North line and 1460' from the East line of Section 1, Township 27 North,

Range 6 West, N.M.P.M. Said well was spudded on July 31, 1962, and completed on August 25, 1962, at a total depth of 7775'. The Dakota Formation in the intervals between 7514' - 7518', 7536' - 7540', 7627' - 7631', 7641' - 7645', 7675' - 7679', 7698' - 7704' was treated with a sand-water fracturing process on August 23, 1962. This well was shut-in on October 15, 1962, and after being shut-in for ten (10) days, the Dakota Formation was tested on October 25, 1962, and following a three (3) hour blow-down period gauged 5399 MCFGPD through a 3/4" choke and 7264 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2684 PSIA and an SIPC of 2683 PSIA.

In support of these applications, the following listed Exhibits are made a part hereof:

EXHIBIT "A"

Ownership map reflecting the boundaries of the unit and the proposed Third Expansion of the Dakota Participating Area.

EXHIBIT "B"

Geological Report on the Third Expansion of the Dakota Participating Area within the San Juan 28-6 Unit.

EXHIBIT "C"

Structural Contour Map.

EXHIBIT "D"

Schedule of Dakota Gas Production.

Attached hereto is Schedule IV showing the proposed Third Expanded Participating Area for the Dakota Formation in the San Juan 28-6 Unit Area. This Schedule describes the Expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the percentages of ownership in each tract.

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

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

Very truly yours,
EL PASO NATURAL GAS COMPANY

By



T. W. Bittick
Assistant Manager
Land Department


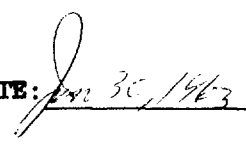
TWB:JBB:ag
Attachments

APPROVED: _____ DATE: _____
Director, United States Geological Survey

Subject to like approval by the appropriate
State Officials.

APPROVED: _____ DATE: _____
Commissioner of Public Lands

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

APPROVED:  DATE:  _____
Oil Conservation Commission

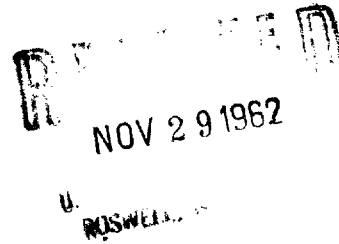
Subject to like approval by the United States
Geological Survey and the Commissioner of
Public Lands.

The foregoing approvals are for the Third Expanded Participating Area of
the Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051, Rio Arriba
County, New Mexico.

1005
32
El Paso Natural Gas Company

El Paso, Texas

November 26, 1962



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

Commissioner of Public Lands
Of the State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE FIRST
AND SECOND EXPANDED PARTICIPATING
AREAS OF THE DAKOTA FORMATION
First Expansion effective October 1,
1961. Second Expansion effective
January 1, 1962

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby requests approval of the First and Second Expansions of the Participating Area for the Dakota Formation, to wit:

FIRST EXPANDED PARTICIPATING AREA - Effective October 1, 1961

<u>Description of Lands</u>	<u>Acres</u>
T-27-N, R-6-W, N.M.P.M. Section 7: W/2	315.68

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #103 Well is located 1700' from the South line and 1850' from the West line of Section 7, Township 27 North, Range 6 West, N.M.P.M. Said well was spudded on August 16, 1961, and completed on September 13, 1961, at a total depth of 7736'. The Dakota Formation in the intervals between 7436' - 7440', 7448' - 7456', 7470' - 7474', 7556' - 7562', 7570' - 7576', 7600' - 7606', 7616' - 7622', 7642' - 7648' was treated with a sand-water fracturing process on September 9, 1961, and September 11, 1961. This well was shut-in on October 5, 1961, and after being shut-in for twenty (20) days, the Dakota Formation was tested on October 25, 1961, and following a three (3) hour blow-down period gauged 3385 MCFGPD through a 3/4" choke and 3856 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2650 PSIA.

SECOND EXPANDED PARTICIPATING AREA - Effective January 1, 1962

<u>Description of Lands</u>	<u>Acres</u>
T-28-N, R-6-W, N.M.P.M.	
Section 11: All	282.80
Section 12: All	282.48
Section 14: All	640.00
Section 23: E/2	320.00

These lands are proven to be productive by the following:

The San Juan 28-6 Unit #100 Well is located 1000' from the South line and 1850' from the West line of Section 13, Township 28 North, Range 6 West, N.M.P.M. Said well was spudded November 5, 1961, and completed December 9, 1961, at a total depth of 7868'. The Dakota Formation in the intervals between 7550' - 7557', 7596' - 7603', 7644' - 7658', 7692' - 7698', 7720' - 7732', 7746' - 7752', 7790' - 7802' was treated with a sand-water fracturing process on December 5, 1961. This well was shut-in on December 9, 1961, and after being shut-in for twenty-four (24) days, the Dakota Formation was tested on January 2, 1962, and following a three (3) hour blow-down period gauged 5665 MCFGPD through a 3/4" choke and 7554 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2338 PSIA.

In support of these applications, the following listed Exhibits are made a part hereof:

EXHIBIT "A"

Ownership map reflecting the boundaries of the unit and the proposed First and Second Expansions of the Dakota Participating Area.

EXHIBIT "B"

Geological Report on the First and Second Expansions of the Dakota Participating Area within the San Juan 28-6 Unit.

EXHIBIT "C"

Structural Contour Map.

EXHIBIT "D"

Schedule of Dakota Gas Production.

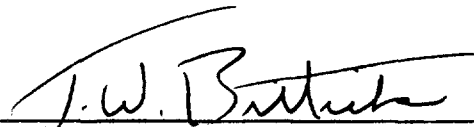
Attached hereto are Schedules II and III showing the proposed First and Second Expanded Participating Areas for the Dakota Formation in the San Juan 28-6 Unit Area. These Schedules describe the Expanded Participating Areas, show the percentage of unitized substances allocated to each unitized tract, and the percentages of ownership in each tract.

If these First and Second Expanded Participating Areas of the Dakota Formation meet with your approval, please indicate such approval in the space provided and return an approved copy hereof for our files.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
T. W. Bittick
Assistant Manager
Land Department

TWB:AJM:cah
Attachments

APPROVED: *Samuel A. Baker* DATE: JUN 18 1963
Acting Director, United States Geological Survey

Subject to like approval by the appropriate
State Officials.

APPROVED: *Esmael* DATE: July 15, 1963
Commissioner of Public Lands

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

APPROVED: *G. H. Porter* DATE: July 11, 1963
Oil Conservation Commission

Subject to like approval by the United States
Geological Survey and the Commissioner of
Public Lands.

The foregoing approvals are for the First and Second Expanded Participating
Areas of the Dakota Formation for the San Juan 28-6 Unit, #14-08-001-1051,
Rio Arriba County, New Mexico.

RECEIVED
J.
U. S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

El Paso Natural Gas Company

543

El Paso, Texas

November 21, 1962

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

Re: First and Second Expansions for the
Dakota Formation, San Juan 28-6 Unit,
Rio Arriba County, New Mexico

Dear Mr. Anderson:

We are enclosing two (2) copies of the Application for Approval of the First and Second Expanded Participating Areas of the Dakota Formation for the San Juan 28-6 Unit.

These Expansions were furnished to the Commissioner of Public Lands and the Oil Conservation Commission on September 18, 1962. Thereafter, both the Commissioner of Public Lands and the Oil Conservation Commission advised that in this specific instance they did not desire to act on the obligation until the United States Geological Survey had approved same. Their action was based on the fact that such a large amount of Federal acreage is to be brought into the participating area.

In order to meet the request of the State regulatory agencies, we respectfully request your preliminary approval of these proposed expansions, and on receipt of such approval by this office we shall return the Applications to the Commissioner of Public Lands and the Oil Conservation Commission for their approval. After execution by the State agencies we shall then return five (5) copies to you in order that the Director of the United States Geological Survey may examine and approve these expansions.

Very truly yours,


Charles T. Richardson
Area Coordinator
Land Department

CTR:js
Enclosures

cc: Commissioner of Public Lands
Oil Conservation Commission ✓

SJ 28-6, 4.3

COPY

El Paso Natural Gas Company

El Paso, Texas

November 20, 1962

**Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Drawer 1887
Roswell, New Mexico**

**Re: First and Second Expansions for the
Dakota Formation, San Juan 28-6 Unit,
Rio Arriba County, New Mexico**

Dear Mr. Anderson:

We are enclosing two (2) copies of the Applications for Approval of the First and Second Expanded Participating Areas of the Dakota Formation for the San Juan 28-6 Unit.

These Expansions were furnished to the Commissioner of Public Lands and the Oil Conservation Commission on September 18, 1962. The Commissioner of Public Lands and Oil Conservation Commission have now advised that they prefer to act on these Applications after approval of the United States Geological Survey due to the amount of federal acreage brought into the Participating Area.

After you have approved the proposed Expansions, please return both copies to this office and then we will proceed to have these Expansions approved by the Commissioner of Public Lands and Oil Conservation Commission. After we have received their approval we will then return five copies to you in order that the Director of the United States Geological Survey may examine and approve same.

Very truly yours,

Original Signed By

CHARLES T. RICHARDSON

**Charles T. Richardson
Area Coordinator
Land Department**

**CTR:AJM:ag
Enclosures
San Juan 28-6 4.3**

**cc: Oil Conservation Commission
Commissioner of Public Lands**

C O P Y

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

September 28, 1962

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

Attention: Mr. C. T. Richardson

**Re: Application for Approval
of the First and Second
Expanded Participating Area,
Dakota Formation, San Juan
28-6 Unit**

Gentlemen:

Returned herewith are eight copies of your application for the First and Second Expanded Participating Areas of the Dakota Formation for the San Juan 28-6 Unit. Due to the amount of acreage included in the Second Expanded Participating Area and the amount of Federal Acreage involved, the Oil Conservation Commission and the Commission of Public Lands prefer to act on the application after action by the United States Geological Survey.

Very truly yours,

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

**ALP/JHK/ig
cc: Commissioner of Public Lands
Santa Fe, New Mexico**

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

C
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P
Y

El Paso Natural Gas Company

543

El Paso, Texas

September 6, 1962

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
P. O. Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
~~Capitol Annex Building~~ P. O. Box 871
Santa Fe, New Mexico

Re: Approval of 1962 Plan of
Development
San Juan 28-6 Unit
Rio Arriba County, New Mexico

Gentlemen:

This is to advise that the 1962 San Juan 28-6 Unit Plan of Development has been approved as follows:

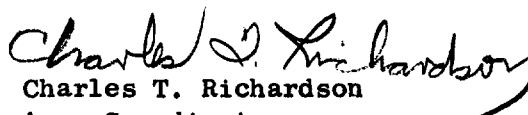
United States Geological Survey -
Approved August 22, 1962

Commissioner of Public Lands -
Approved August 14, 1962

Oil Conservation Commission -
Approved August 22, 1962

A copy of this letter is being sent to all Working Interest Owners within this Unit.

Very truly yours,


Charles T. Richardson
Area Coordinator
Land Department

CTR:AJM:ojp

cc: Attached List

SAN JUAN 28-6 UNIT
Working Interest Owners

Mr. Mike Abraham
814 Mercantile Bank Building
Dallas, Texas

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Delhi-Taylor Oil Corporation
Attention: Mr. R. L. Caldwell
2630 Fidelity Union Tower
Dallas 1, Texas

El Paso Natural Gas Products Company
Attention: Mr. Roland Hamblin
Luther Building
El Paso, Texas

Estate of G. F. Harrington
Central National Bank & Trust Co. of
Des Moines, Iowa, Trustee & Executor
5th and Locust Streets
Des Moines, Iowa

Mr. T. F. Harrington
c/o T. H. Harrington
P. O. Box 4026, Station "A"
Albuquerque, New Mexico

Mr. T. H. McElvain
P. O. Box 2148
Santa Fe, New Mexico

Mr. Forrest B. Miller and
Mrs. Mabelle M. Miller
220 Shelby Street
Santa Fe, New Mexico

Pan American Petroleum Corporation (12)
Attention: Mr. T. M. Curtis
P. O. Box 480
Farmington, New Mexico

Phillips Petroleum Company
Attention: Mr. R. F. Rood or Mr. V. H.
Stone
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
Attention: Division Landman
Land & Geological Department
1200 Denver Club Building
Denver 2, Colorado

Pubco Petroleum Corporation
Attention: Mr. Gilbert J. Sevier, Jr.
P. O. Box 1419
Albuquerque, New Mexico

Pubco Petroleum Corporation
Attention: Mr. Robert C. Youngmun
P. O. Box 1419
Albuquerque, New Mexico

Mr. H. K. Riddle
644 E. Barcelona Road
Santa Fe, New Mexico

Skelly Oil Company
Attention: Mr. Harvey B. Hunt, Jr.
P. O. Box 4115, Station "A"
Albuquerque, New Mexico

Skelly Oil Company
Attention: Mr. T. F. Thompson
P. O. Box 1650
Tulsa 2, Oklahoma

Sinclair Oil & Gas Company (4)
Attention: Mr. C. W. Horstmeier
601 Denver Club Building
Denver, Colorado

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

Texas National Petroleum Company
Attention: Mr. L. C. Oldham, Jr.,
Vice President
410 Pierce Avenue
Houston, Texas

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

543

August 22, 1962

C
O
P
Y

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

Attention: Mr. Sam Smith

Re: 1962 Drilling Program
San Juan 28-6 Unit Rio
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1962 Drilling Program for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/lqg.

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

Commissioner of Public Lands
Santa Fe, New Mexico

43

Drawer 1857
Roswell, New Mexico

August 22, 1962

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

Attention: Mr. Sam Smith

Gentlemen:

Your 1962 plan of development dated July 31, 1962, for the San Juan 28-6 unit area, Rio Arriba County, New Mexico, proposing the drilling of one Pictured Cliffs and one Dakota well, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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

Drawer 1857
Roswell, New Mexico

August 22, 1962

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

Attention: Mr. Sam Smith

Gentlemen:

Your 1962 plan of development dated July 31, 1962, for the San Juan 28-6 unit area, Rio Arriba County, New Mexico, proposing the drilling of one Pictured Cliffs and one Dakota well, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

(Orig. Srd.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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

August 14, 1962

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

Re: San Juan 28-6 Unit,
Rio Arriba County,
New Mexico, 1962
Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands has on this date approved the 1962 Drilling Program for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are returning one approved copy of this Plan.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

EY:

(Mrs.) Marian M. Rhea, Supervisor
Unit Division

ESW/mmr/v

cc: United States Geological Survey
Roswell, New Mexico

Oil Conservation Commission
Santa Fe, New Mexico

El Paso Natural Gas Company

El Paso, Texas

July 31, 1962

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1962 DRILLING PROGRAM

Gentlemen:

By letter dated October 16, 1961, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned Unit for the calendar year 1961. Said program provided for the drilling of three Dakota wells. During 1961 two Dakota wells were completed on lands committed to the Unit and are in the process of being admitted to the Dakota Participating Area. The Dakota well scheduled for the N/2 Section 24, Township 28 North, Range 6 West was not drilled during 1961, however, we are attempting to have this well drilled under a farmout agreement during 1962.

As of this date, the total number of wells in the San Juan 28-6 Unit is as follows:

Pictured Cliffs	5
Mesaverde	71
Dual, Mesaverde-Pictured Cliffs	15
Dual, Mesaverde-Dakota	1
Mesaverde Non-Commercial	1
Dakota, Plugged and Abandoned	1
Dakota	2

Pursuant to Section 10 of the San Juan 28-6 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is hereby submitting this Drilling Program providing for the drilling of the following described wells during the period from January 1, 1962, to December 31, 1962:

<u>DRILLING BLOCK</u>	<u>FORMATION</u>
W/2 Section 1, T-27-N, R-6-W	Pictured Cliffs
E/2 Section 1, T-27-N, R-6-W	Dakota

In addition to the above wells, El Paso Natural Gas Company, as Unit Operator, also plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners in the affected drilling blocks.

El Paso Natural Gas Company intends to drill the Pictured Cliffs well to the base of the Pictured Cliffs Formation using rotary and cable tools. Surface casing will be set to approximately 100' from the surface, and then a production string of casing will be set through the Pictured Cliffs Formation. Mud will be used in drilling through the Pictured Cliffs Formation and cable tools will be used for completion work. The entire Pictured Cliffs Formation will be subjected to a hydraulic fracturing process. Due care will be taken to protect all horizons.

El Paso Natural Gas Company intends to drill the Dakota well to the base of the Dakota Formation using rotary tools. Surface casing will be set to the depth of approximately 300' and an intermediate string will be run, if necessary, through the Pictured Cliffs Formation to a depth of approximately 3200', and then a production casing string will be run to the base of the Dakota Formation. The casing in the Dakota Formation will then be perforated and the Dakota Formation subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing when said casing is run and the hole below the intermediate string of casing will be drilled with either mud or gas. Due care will be taken to protect all horizons.

All of the working interest owners have been notified and this Drilling Program reflects, insofar as possible, their requests 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 letter are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

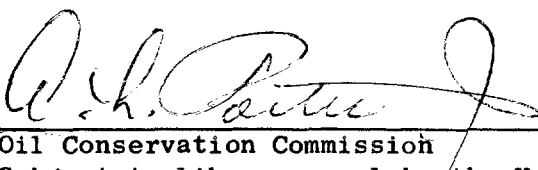
By 

Sam Smith, Manager
Land Department

SS:AJM:cah

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

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

APPROVED:  _____ DATE: 8-12-62
Oil Conservation Commission
Subject to like approval by the United States
Geological Survey and the Commissioner of
Public Lands.

The foregoing approvals are for the 1962 Drilling Program for the San Juan
28-6 Unit, Rio Arriba County, New Mexico.

SAN JUAN 28-6 UNIT
Working Interest Owners

Mr. Mike Abraham
814 Mercantile Bank Building
Dallas, Texas

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Delhi-Taylor Oil Corporation
Attention: Mr. R. L. Caldwell
2630 Fidelity Union Tower
Dallas 1, Texas

El Paso Natural Gas Products Company
Attention: Mr. Roland Hamblin
Luther Building
El Paso, Texas

Estate of G. F. Harrington
Central National Bank & Trust Co. of
Des Moines, Iowa, Trustee & Executor
5th and Locust Sts.
Des Moines, Iowa

Mr. T. F. Harrington
c/o T. H. Harrington
P.O. Box 4026, Station "A"
Albuquerque, New Mexico

Mr. T. H. McElvain
220 Shelby Street
Santa Fe, New Mexico

Mr. Forrest B. Miller and
Mrs. Mabelle M. Miller
220 Shelby Street
Santa Fe, New Mexico

Pan American Petroleum Corporation
Attention: Mr. T. M. Curtis
P.O. Box 480
Farmington, New Mexico

Phillips Petroleum Company
Attention: Mr. R.F. Rood or V.H. Stone
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
Attention: Division Landman
Land & Geological Department
1200 Denver Club Building
Denver 2, Colorado

Pubco Petroleum Corporation
Attention: Mr. Gilbert J. Sevier, Jr.
P.O. Box 1419
Albuquerque, New Mexico

Pubco Petroleum Corporation
Attention: Mr. Robert C. Youngmun
P.O. Box 1419
Albuquerque, New Mexico

Mr. H. K. Riddle
644 E. Barcelona Road
Santa Fe, New Mexico

Skelly Oil Company
Attention: Mr. Harvey B. Hunt, Jr.
P.O. Box 4115, Station "A"
Albuquerque, New Mexico

Skelly Oil Company
Attention: Mr. T. F. Thompson
P.O. Box 1650
Tulsa, Oklahoma

Sinclair Oil & Gas Company
Attention: Mr. C. W. Horstmeier
601 Denver Club Building
Denver, Colorado

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

Texas National Petroleum Company
Attention: Mr. L. C. Oldham, Jr.
410 Pierce Avenue
Houston, Texas

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

January 4, 1962

C
O
P
Y

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

Attention: Mr. Sam Smith

Re: 1961 Drilling Program
San Juan 28-6 Unit
Rio Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1961 Drilling Program for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

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

ALP/JEK/ig

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

Commissioner of Public Lands
Santa Fe, New Mexico

November 9, 1961

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

Re: 1961 Drilling Program
San Juan 28-6 Unit
Rio Arriba County, New Mexico

Attention: Mr. Sam Smith

Gentlemen:

The Commissioner of Public Lands has approved as of this date, the 1961 Drilling Program for the San Juan 28-6 Unit Area, Rio Arriba County, New Mexico.

We are returning one copy of this Plan.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

ESW/mmvr/v

Encl:

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

Oil Conservation Commission
Santa Fe, New Mexico

El Paso Natural Gas Company

El Paso, Texas

November 9, 1961

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1961 DRILLING PROGRAM

Gentlemen:

By letter dated October 16, 1961, El Paso Natural Gas Company, as Unit Operator of the San Juan 28-6 Unit, filed a Drilling Program for the calendar year 1961. On this Program we listed a drilling block for the Dakota Formation as being the E/2 of Section 24, Township 28 North, Range 6 West. Please change this drilling block to read the N/2 of Section 24, Township 28 North, Range 6 West.

A copy of this letter is being sent to each working interest owner in the San Juan 28-6 Unit.

Very truly yours,



Charles Higgins
Area Coordinator
Land Department

CH:AJM:cah



IN REPLY REFER TO:

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

November 6, 1961

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

Attention: Mr. Sam Smith

Gentlemen:

Your 1961 plan of development dated October 16, 1961, for the San Juan 28-6 unit area, Rio Arriba County, New Mexico, which proposes the drilling of three Dakota formation wells, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,
[Orig. Sgd.] JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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

El Paso Natural Gas Company

El Paso, Texas

October 24, 1961

Call 115

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
NOTICE OF DISCOVERY AND REQUEST FOR
APPROVAL OF INITIAL PARTICIPATING AREA
Dakota Formation
Effective December 7, 1959

Gentlemen:

This is to advise you that the captioned Notice has been approved by the regulatory bodies as follows:

1. United States Geological Survey - October 11, 1961.
2. Commissioner of Public Lands - July 31, 1961.
3. Oil Conservation Commission - July 18, 1961.

Copies of this letter are being sent to the working interest owners of the San Juan 28-6 Unit.

Very truly yours,

Charles Higgins

Charles Higgins
Area Coordinator
Land Department

CH: JBB: cah



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

543

October 19, 1961

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

Attention: Mr. T. W. Bittick

Gentlemen:

Your application of July 11, 1961, for the initial Dakota participating area, San Juan 28-6 unit area, Rio Arriba County, New Mexico, was approved October 11, 1961, by the Acting Director, Geological Survey, effective as of December 7, 1959.

Two approved copies of the application are enclosed. It is assumed that you will furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Wash. (ltr. only)
BLM-Santa Fe (w/cy of appln)
Farmington (w/cy of appln)
NMDC, Santa Fe (ltr. only)
Com. of Pub. Lands, Santa Fe (ltr. only)

El Paso Natural Gas Company

El Paso, Texas

October 16, 1961

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

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

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

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1961 DRILLING PROGRAM

Gentlemen:

By letter dated February 15, 1960, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned Unit for the calendar year 1960. Said program provided for the drilling of one (1) Pictured Cliffs well and the recompletion of three (3) existing Mesaverde wells in the Pictured Cliffs Formation. This program was subsequently modified and during the course of the year 1960, two (2) Pictured Cliffs wells and one (1) dual Pictured Cliffs-Mesaverde well were completed on lands committed to the Unit, and have been admitted to their respective Participating Areas. One (1) Dakota well was drilled as a dry hole and was plugged and abandoned. One (1) Pictured Cliffs well was not drilled since the joinder of the necessary parties could not be obtained.

As of this date, the total number of wells in the San Juan 28-6 Unit is as follows:

Pictured Cliffs	5
Mesaverde	71
Dual, Mesaverde-Pictured Cliffs	15
Dual, Mesaverde-Dakota	1
Mesaverde-Non-Commercial	1
Dakota, Plugged and Abandoned	1

Pursuant to Section 10 of the San Juan 28-6 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is herewith submitting this Drilling Program providing for the drilling of the following described wells during the period January 1, 1961, to December 31, 1961:

DRILLING BLOCK

FORMATION

E/2 Section 24, T-28-N, R-6-W
S/2 Section 13, T-28-N, R-6-W
W/2 Section 7, T-27-N, R-6-W

Dakota
Dakota
Dakota

In addition to the above wells, El Paso Natural Gas Company, as Unit Operator, also plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners in the affected drilling blocks.

El Paso Natural Gas Company, as Unit Operator, intends to drill the Dakota wells to the base of the Dakota Formation using rotary tools. Surface casing will be set to the depth of approximately 300', and 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. Due care will be taken to protect all horizons.

All of the Working Interest Owners have been notified and this Drilling Program reflects, insofar as possible, their requests 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 letter are being sent to the working interest owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 

Sam Smith, Manager
Land Department

SS: JBB: cah

SAN JUAN 28-6 UNIT
Working Interest Owners

Mr. Mike Abraham
814 Mercantile Bank Building
Dallas, Texas

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Delhi-Taylor Oil Corporation
Attention: Mr. R. L. Caldwell
2630 Fidelity Union Tower
Dallas 1, Texas

El Paso Natural Gas Products Company
Attention: Roland Hamblin
Luther Building
El Paso, Texas

Estate of G. F. Harrington
Central National Bank & Trust Company
of Des Moines, Iowa, Trustee & Executor
5th and Locust Streets
Des Moines, Iowa

Mr. T. F. Harrington
c/o T. H. Harrington
P. O. Box 4026, Station "A"
Albuquerque, New Mexico

Mr. T. H. McElvain
220 Shelby Street
Santa Fe, New Mexico

Mr. Forrest B. Miller
and Mrs. Mabelle M. Miller
220 Shelby Street
Santa Fe, New Mexico

Pan American Petroleum Corporation
Attention: Mr. T. M. Curtis
P. O. Box 480
Farmington, New Mexico

Phillips Petroleum Company
Attention: Mr. R. F. Rood or V. H. Stone
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
Attention: Division Landman
Land & Geological Department
1200 Denver Club Building
Denver 2, Colorado

Pubco Petroleum Corporation
Attention: Mr. Gilbert J. Sevier, Jr.
P. O. Box 1419
Albuquerque, New Mexico

Pubco Petroleum Corporation
Attention: Mr. Robert C. Youngmun
P. O. Box 1419
Albuquerque, New Mexico

Skelly Oil Company
P. O. Box 4115, Station "A"
Albuquerque, New Mexico

Sinclair Oil & Gas Company
Attention: Mr. C. W. Horstmeier
601 Denver Club Building
Denver, Colorado

Southern Petroleum Exploration, Inc.
Attention: Mr. Paul W. Neuenschwander
P. O. Box 192
Sistersville, West Virginia

Texas National Petroleum Company
Attention: Mr. L. C. Oldham, Jr.,
Vice President
902 South Coast Building
Houston, Texas

APPROVED:

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

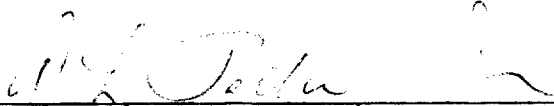
DATE: _____

APPROVED:

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

DATE: _____

APPROVED:



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

DATE: 1-22-66

The foregoing approvals are for the 1961 Drilling Program for the San Juan 28-6 Unit, Rio Arriba County, New Mexico.

O. O. CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Case # 543

August 21, 1961

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

Attention: Mr. Sam Smith

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the drilling of a Dakota well in the W/2 of Section 7, Township 27 North, Range 6 West, NMPM, 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.

The approval of the above-described well is contingent upon the approval of a Plan of Development for 1961 for the San Juan 28-6 Unit.

Very truly yours,

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

ALP/JEK/ig

cc: United States Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
Santa Fe, New Mexico

C
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El Paso Natural Gas Company

El Paso, Texas

August 14, 1961

Oil Conservation Commission
Of the State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Attention: Mr. Richard S. Morris

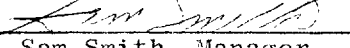
Gentlemen:

With reference to your letter dated August 10, 1961, concerning our request for approval of a Dakota well to be drilled in the W/2 of Section 7, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, we wish to advise that the difficulty encountered in obtaining a suitable drilling program is due to certain other wells which we desire to drill, and is not in any way connected with the aforementioned well which we propose in the W/2 of Section 7. El Paso owns all the acreage in the spacing unit comprising the W/2 of Section 7.

The purpose of our telegram to you on August 1 was merely to obtain your approval to commence this well, since we had not formerly submitted a drilling program for the San Juan 28-6 Unit as required by the Unit Agreement.

Therefore, if the drilling of this well meets with your approval we will appreciate your so advising us of such approval.

Very truly yours,

By 
Sam Smith, Manager
Land Department

SS: JBB: cah

28-6 Unit
3.0, 5.0

Case 543

In Reply Refer to
Unit Division

August 1, 1961

El Paso Natural Gas Company
El Paso, Texas

Re: Initial Participating
Area, Dakota Formation
San Juan 28-6 Unit
Rio Arriba County,
New Mexico

Attention: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands approved
as of July 31, 1961, the Initial Participating
Area for the Dakota Formation San Juan 28-6 Unit
Area Rio Arriba County, New Mexico.

We are enclosing herewith six approved copies.
Please furnish us another copy when fully approved.

Very truly yours,

E.S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

ESW/mm/v

Encl:

cc: Oil Conservation Commission, Santa Fe
U. S. Geological Survey, Roswell

C
O
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Y

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Case # 543

July 18, 1961

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

Attention: Mr. Charles Higgins

Re: Initial Participating Area
Dakota Formation San Juan
28-6 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, Dakota Formation, for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Seven approved copies of the application are being forwarded to the Commissioner of Public Lands.

Very truly yours,

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

ALP/JEK/ig

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

C
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BCO PETROLEUM CORPORA ON

July 18, 1961

Re: San Juan 28-6 Unit
No. 14-08-001-1051
Rio Arriba County, New Mexico
Notice of Discovery and Request
for Approval of Initial Participating Area, Dakota Formation

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

Gentlemen:

Reference is made to your letter of July 11, 1961, requesting an Initial Participating Area for the Dakota Formation based on the completion of your Unit No. 94 Well. As set out in our letter to the United States Geological Survey dated April 28, 1961, a copy of which was furnished your office, it is our opinion that this well is non-commercial and, consequently, does not provide for the establishment of an Initial Participating Area for the Dakota Formation in the subject unit.

Yours very truly,

Original Signed By
Gilbert J. Sevier, Jr.

Gilbert J. Sevier, Jr.
Land Manager

GJSJr:cs

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

Commissioner of Public Lands
Of the State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Mr. Frank D. Gorham, Jr.

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

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

El Paso Natural Gas Company

El Paso, Texas

July 11, 1961

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

Commissioner of Public Lands
Of the State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF DISCOVERY & REQUEST FOR
APPROVAL OF INITIAL PARTICIPATING
AREA, Dakota Formation
Effective December 7, 1959

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on December 7, 1959, that the San Juan 28-6 Unit #94 Well, completed in the Dakota Formation, is capable of producing unitized substances in paying quantities from said formation. The Initial Participating Area for the Dakota Formation is submitted herewith for your approval and the following selection of lands are estimated to be productive in paying quantities:

Township 28 North, Range 6 West, N.M.P.M.
Section 13: All
Section 24: All
Section 25: All
Section 36: All
Containing 2,561.44 acres

The lands described are proven to be productive by the following:

The San Juan 28-6 Unit #94 Well, a Mesaverde-Dakota dual completion, located 990' from the North line and 1650' from the East line of Section 36, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on July 27, 1959, and completed on November 19, 1959, at a total depth of 7920'. The Dakota Formation from 7552' - 7562', 7572' - 7584', 7658' - 7675', 7702' - 7712', 7744' - 7754', 7760' - 7770' was treated with a sand-oil fracturing process. After being shut-in on November 19, 1959, for eighteen (18) days, the well was tested in the Dakota Formation on December 7, 1959, and following a three (3) hour blow-down period gauged 2564 MCFGPD through a 3/4" choke, and 2628 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2484#.

In support of our determination that this well is commercial, we submit the following additional information:

Average porosity, % (Based on San Juan 28-5 #35)	9.0
Initial water saturation, % (Based on San Juan 28-5 #35)	20
Gas specific gravity	0.63
Bottom-hole temperature, °F.	194
Calculated original bottom-hole pressure, psia	3008
Gas compressibility, original	0.898
Calculated original gas in place, M ² CF at 15.025 psia	6068
Estimated terminal reservoir pressure, psia	602
Gas compressibility, terminal conditions	0.955
Calculated terminal gas in place, M ² CF at 15.025	1143
Estimated recoverable gas, M ² CF at 15.025 psia	4925
Total productive interval	34'

In addition to the above well the proposed acreage adjoins the San Juan 28-5 Unit and Sections 13 and 24 are offset by commercial Dakota wells in the San Juan 28-5 Unit.

Filed in support of this application are the following listed Exhibits which are made a part hereof:

EXHIBIT "A"

Ownership map reflecting the boundaries of the San Juan 28-6 Unit and the proposed Initial Dakota Participating Area.

EXHIBIT "B"

Geological Report on the Initial Dakota Participating Area within the San Juan 28-6 Unit.

EXHIBIT "C"

Structural Contour Map.

APPROVED: _____

Director, United States Geological Survey
Subject to like approval by the appropriate
State Officials.

DATE: _____

APPROVED: _____

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

DATE: _____

APPROVED: _____

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

DATE: *July 18, 1961*

El Paso Natural Gas Company

El Paso, Texas

July 11, 1961

Case #243

REGISTERED MAIL

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: NOTICE OF DISCOVERY & REQUEST FOR
APPROVAL OF INITIAL PARTICIPATING
AREA, Dakota Formation, San Juan
28-6 Unit, #14-08-001-1051
San Juan County, New Mexico

Gentlemen:

We enclose eight (8) copies of Notice of Discovery & Request for Approval of Initial Participating Area for the Dakota Formation under the San Juan 28-6 Unit Agreement, along with supporting documents.

If this request meets with your approval please so indicate your approval in the space provided and retain one copy for your file and forward seven (7) copies to the Commissioner of Public Lands for his approval. The Commissioner of Public Lands will retain two (2) copies of the request, returning five (5) to this office for our submission to the United States Geological Survey for their approval.

Very truly yours,

Charles Higgins

Charles Higgins
Area Coordinator
Land Department

CH:JEB:js
Enclosures

cc: Commissioner of Public Lands

SJ 28-6, 4.3

PUBLIC PETROLEUM CORPORATION

April 28, 1961

**Re: San Juan 28-6 Unit
Well #94 (KD)**

**Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Denver 1057
Reswell, New Mexico**

Dear Mr. Anderson:

We have been advised by El Paso Natural Gas Company, Operator of the subject unit, that they propose to request an initial participating area for the Dakota formation for this unit based on the subject well. This well is located in the NE $\frac{1}{4}$ of Section 36, Township 28 North, Range 6 West, San Juan County, New Mexico, and was completed as a Mesaverde-Dakota dual completion with the Dakota having an initial potential of 144 MCF per day and a deliverability of 639 MCF per day. El Paso has advised that the total cost of this well is in excess of \$300,000.00. They have further advised us that the costs allocated to the Dakota portion of the well will be in excess of \$140,000.00.

It is our firm belief that this well is non-commercial as far as the Dakota portion is concerned and, consequently, does not justify the formation of an initial participating area in the unit. We are enclosing a well profitability analysis based on the \$140,000.00 cost figure which indicates the well will actually return a net loss of 15% or \$20,427.00 over its productive life. All computations used are standard for the industry in this area and, in our opinion, represent an accurate economic analysis of the well.

It is respectfully requested that the San Juan 28-6 #94 (KD) well be considered non-commercial.

Yours very truly,

**Frank D. Gorham, Jr.
Executive Vice President**

**FDG:rcs
Enclosure**

**cc: Mr. Sam Smith
El Paso Natural Gas Company
P. O. Box 1402
El Paso, Texas**

**Mr. Darrel Canfield
El Paso Natural Gas Company
P. O. Box 997
Farmington, New Mexico**

WELL PROFITABILITY ANALYSIS

FIELD San Juan Basin, N.M. LEASE AND WELL 275 28-64 94 Dakota DATE April 18, 1961

I. BASIS:

2,190,633 MCF Natural Gas
5,362.18 Mbls. Distillate

- | | |
|--|--|
| 1. Ultimate primary recovery _____ | 7. Average Production Rates: (per well) |
| 2. Total Life <u>28.75</u> Years | 1st Year <u>3/4</u> - <u>93,485 MCF - 214.27 Mbls.</u> |
| 3. Total Number of Wells <u>1</u> | 2nd Year _____ |
| 4. W.I. <u>1.0000</u> N.I. <u>0.0373</u> | 3-44 Years <u>110,423 MCF - 260.11 Mbls.</u> |
| 5. Operating Cost/Well/Year <u>1900</u> | 17th Year <u>72,389 MCF - 171.11 Mbls.</u> |
| 6. Other: _____ | 10% Per Year Decline Thereafter |

II. CAPITAL INVESTMENT (Purchase Price Known):

- | |
|---|
| 8. Purchase Price _____ |
| 9. Drilling Costs <u>140,000</u> |
| 10. Total Capital Investment <u>140,000</u> |

III. OPERATING NET INCOME:

- | | |
|---|--|
| 11. Total Bbl. MCF Production | |
| 12. Total Value @ \$ <u>2.15</u> per Mbl. MCF | |
| 13. Base Royalty @ <u>12.5</u> % | |
| 14. ORR @ <u>3.75</u> % | |
| 15. Oil Payment (out of _____) | |
| 16. Production Taxes @ <u>3.7</u> % | |
| 17. Operating Expenses | |
| 18. Workover Costs (If not included in 17) | |
| 19. _____ | |
| 20. _____ | |
| 21. Net Operating Income | |
| 22. Present Day Worth @ <u>6</u> % | |

During Payout Period	After Payout	Total
		2,190,633 MCF
		5,362.18 Mbls.
		322,746
		34,000
		15,004
		64,373
		190,418
		119,573

IV. PAYOUT AND PRESENT DAY WORTH SUMMARY:

- | | |
|--|--|
| 23. Amount to be paid out: \$ <u>140,000</u> | 27. Present Day Worth \$ <u>119,573</u> |
| 24. Time until payout <u>12.00</u> Years | 28. Total Capital Investment \$ <u>140,000</u> |
| 25. Production Required <u>1,400,000 MCF</u> | 29. Profit <u>(15)</u> % \$ <u>(20,427)</u> |
| 26. Percent of Total Production <u>68.51</u> | 30. Risk Basis _____ |
| | 31. Discounted Profit Ratio _____ |
| | 32. Actual Profit \$ _____ Ratio _____ |

V. VALUE OF PROPERTY FOR PURCHASE BID:

- | | |
|--|--|
| 33. Present Worth Net Operating Income _____ | <ul style="list-style-type: none"> • 12y 1st - 4th Years 14y 5th - 9th Years 15y 10th - 14th Years 16y 15th - 19th Years 17y 20th - 24th Years 18y 25th - 26th Years |
| 34. Capital Investment _____ | |
| 35. Net Worth _____ | |
| 36. Value @ _____ % _____ | |
| | |

El Paso Natural Gas Company

El Paso, Texas

December 7, 1960

RECEIVED DEC 11 1960

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Case 1243

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
THIRTEENTH EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation
Effective November 1, 1960

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, Number 14-08-001-1051, approved August 31, 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 paying quantities from the Pictured Cliffs Formation have been completed upon acreage committed to the unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include the wells as follows:

1. The San Juan 28-6 Unit #95 Well, located 1175' from the South line and 1100' from the West line of Section 15, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on August 5, 1960 and completed on August 26, 1960, at a total depth of 3247'. The Pictured Cliffs Formation from 3154' - 3164', 3180' - 3190', 3208' - 3213' was treated with a sand-water fracturing process. After being shut-in on August 26, 1960 for forty-six (46) days, the well was tested in the Pictured Cliffs Formation on October 11, 1960 and gauged 1396 MCFGPD through a 3/4" choke and 1417 MCFGPD by the calculated absolute open-flow method, with an SIPC of 1102#. The committed drilling block upon which this well is located is described

as the W/2 of Section 15, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation was made on October 11, 1960.

2. The San Juan 28-6 Unit #96 Well, located 1150' from the South line and 890' from the West line of Section 9, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on August 11, 1960, and completed on August 31, 1960 at a total depth of 3250'. The Pictured Cliffs Formation from 3136' - 3150', 3168' - 3182' was treated with a sand-water fracturing process. After being shut-in on August 31, 1960 for forty-one (41) days, the well was tested in the Pictured Cliffs Formation on October 11, 1960, and following a three (3) hour blow-down period gauged 1164 MCFGPD through a 3/4" choke and 1176 MCFGPD by the calculated absolute open-flow method, with an SIPC of 1101#. The committed drilling block upon which this well is located is described as the W/2 of Section 9, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation was made on October 11, 1960.


Under the terms of the San Juan 28-6 Unit Agreement, the above described drilling blocks are admitted to the Participating Area for the Pictured Cliffs Formation as of November 1, 1960.

Attached is Schedule XIV showing the Thirteenth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 28-6 Unit Area. This Schedule describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor and in the absence of disapproval, this Thirteenth Expanded Participating Area for the Pictured Cliffs Formation will become effective as of November 1, 1960.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
T. W. Bittick
Assistant Manager
Land Department

TWB:JBB:nl

cc: Attached List

El Paso Natural Gas Company

El Paso, Texas

December 1, 1960

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
Exhibit "B"

Gentlemen:

On October 13, 1960, we mailed a proposed Exhibit "B" for the San Juan 28-6 Unit to the working interest owners of the unit in order for them to check their ownership as set out on the Exhibit, and requesting them to notify us of any change or correction they should find.

Therefore, we are enclosing a final copy of the Exhibit "B" for the San Juan 28-6 Unit Area, incorporating the changes necessary.

Copies of this letter and the Exhibit "B" are being sent to the working interest of the San Juan 28-6 Unit.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

T. W. Bittick

T. W. Bittick
Assistant Manager
Land Department

TWB:JBB:cah
Attachment

El Paso Natural Gas Company

El Paso, Texas

December 1, 1960

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
Exhibit "B"

Gentlemen:

On October 13, 1960, we mailed a proposed Exhibit "B" for the San Juan 28-6 Unit to the working interest owners of the unit in order for them to check their ownership as set out on the Exhibit, and requesting them to notify us of any change or correction they should find.

Therefore, we are enclosing a final copy of the Exhibit "B" for the San Juan 28-6 Unit Area, incorporating the changes necessary.

Copies of this letter and the Exhibit "B" are being sent to the working interest of the San Juan 28-6 Unit.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

T. W. Bittick

T. W. Bittick
Assistant Manager
Land Department

TWB:JBB:cah
Attachment

El Paso Natural Gas Company

El Paso, Texas

October 14, 1960

100.077 15

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Case # 243

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
TWELFTH EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation
Effective October 1, 1960

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, Number 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #97 Well, located 810' from the North line and 1700' from the East line of Section 35, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on June 23, 1960 and completed on July 3, 1960, at a total depth of 5770'. The Pictured Cliffs Formation from 3382' - 3390'; 3394' - 3404'; 3410' - 3418' was treated with a sand-water fracturing process. After being shut-in on July 11, 1960 for fifty-nine (59) days, the well was tested in the Pictured Cliffs Formation on September 8, 1960 and gauged 4941 MCFGPD through a 3/4" choke and 5626 MCFGPD by the calculated absolute open-flow method, with an SIPT of 1104# and an SIPC of 1104#. The committed drilling block upon which this well is located is described as the E/2

of Section 35, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 322.04 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation was made on September 8, 1960.

Under the terms of the San Juan 28-6 Unit Agreement, the above-described drilling block is admitted to the Participating Area for the Pictured Cliffs Formation as of October 1, 1960.


The San Juan 28-6 Unit #97 Well is a dual completion well, having been completed in both the Pictured Cliffs and Mesaverde Formations. The tract upon which the said well is located was included in the Twenty-Eighth Expanded Participating Area for the Mesaverde Formation, effective July 1, 1959, therefore Notice of Completion of Additional Well will be submitted under separate cover.

Attached is Schedule XIII showing the Twelfth Expanded Participating Area for the Pictured Cliffs Formation of San Juan 28-6 Unit Area. This Schedule describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor and in the absence of disapproval, this Twelfth Expanded Participating Area for the Pictured Cliffs Formation will become effective as of October 1, 1960.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
T. W. Bittick
Assistant Manager
Land Department

TWB:JBB:nl

cc: Attached List

HEAD OFFICE OF El Paso Natural Gas Company
1930 OCT 13 AM 3:22
El Paso, Texas

October 14, 1960

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELL

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit. This well is as follows:

The San Juan 28-6 Unit #97 Well, located 810' from the North line and 1700' from the East line of Section 35, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on June 23, 1960, and completed on July 3, 1960, at a total depth of 5770'. The Mesaverde Formation from 5150' - 5158'; 5174' - 5188'; 5194' - 5206'; 5570' - 5582'; 5598' - 5610'; 5628' - 5638'; 5650' - 5660'; 5686' - 5702' was treated with a sand-water fracturing process. After being shut-in on July 11, 1960 for forty-five (45) days, the well was tested in the Mesaverde Formation on August 25, 1960, and following a three (3) hour blow-down period gauged 4723 MCFGPD through a 3/4" choke and 8799 MCFGPD by the calculated absolute open flow method, with an SIPT of 1050#. The committed drilling block upon which this well is located is described as the E/2 of Section 35, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 322.04 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Mesaverde Formation was made on August 25, 1960.

The drilling block was included in the San Juan 28-6 Unit Twenty-Eighth Expanded Participating Area, effective July 1, 1959, as an intervening drilling block.

The San Juan 28-6 Unit #97 Well is a dual completion well, having been completed in both the Mesaverde and Pictured Cliffs Formations. The subject well will be shown on Schedule XIII for the Twelfth Expanded Participating Area for the Pictured Cliffs Formation, effective October 1, 1960. The said schedule will be submitted at a later date.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By Charles Higgins
Area Coordinator
Land Department

CH : JBB : nl

Attachment

San Juan 28-6 Unit
Working Interest Owners

Mr. R. A. Brown
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
1211 Main Avenue
Durango, Colorado

Mr. R. L. Caldwell
Delhi-Taylor Oil Corporation
2630 Fidelity Union Tower Building
Akard & Pacific Sts.
Dallas, Texas

Mr. C. W. Horstmeier (4)
Sinclair Oil & Gas Company
601 Denver Club Building
Denver 2, Colorado

Skelly Oil Company
P. O. Box 4115, Station "A"
Albuquerque, New Mexico

Mr. Tom Bolack
1010 North Dustin St.
Farmington, New Mexico

Mr. T. F. Harrington
150 Wildwood Way
Woodside, California

Mr. L. O. Speer, Jr. (12)
Pan American Petroleum Corporation
Post Office Box 480
Farmington, New Mexico

Riasan Company
Post Office Box 4026, Station "A"
Albuquerque, New Mexico

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
P. O. Box 192
Sistersville, West Virginia

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

Mr. H. K. Riddle
P. O. Box 1985
Salt Lake City, Utah

Mr. E. K. Boatright
Three States Natural Gas Company
17th Floor, Corrigan Tower
Dallas 1, Texas

El Paso Natural Gas Company

El Paso, Texas

September 8, 1960

RECEIVED
1960 SEP 11 AM 10 10

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
ELEVENTH EXPANDED PARTICIPATING
AREA, Pictured Cliffs Formation
Effective July 1, 1960

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, Number 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #89 Well, located 1190' from the South line and 1850' from the East line of Section 9, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on May 31, 1960 and completed on June 4, 1960, at a total depth of 3285'. The Pictured Cliffs Formation from 3132' - 3161', 3169' - 3185' was treated with a sand-water fracturing process. After being shut-in for twelve (12) days, the well was tested in the Pictured Cliffs Formation on June 16, 1960 and following a three (3) hour blow-down period gauged 1194 MCFGPD through a 3/4" choke and 2493 MCFGPD by the calculated absolute open-flow method, with an SIPT of 1081# and an SIPC of 1081#. The committed drilling block upon which this well is located is described as the E/2 of Section 9, Township 27 North, Range 6 West,

N.M.P.M., Rio Arriba County, New Mexico, containing 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation was made on June 16, 1960.

Under the terms of the San Juan 28-6 Unit Agreement, the above-described drilling block is admitted to the Participating Area for the Pictured Cliffs Formation as of July 1, 1960.

Attached is Schedule XII showing the Eleventh Expanded Participating Area for the Pictured Cliffs Formation of San Juan 28-6 Unit Area. This Schedule describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor and in the absence of disapproval, this Eleventh Expanded Participating Area for the Pictured Cliffs Formation will become effective as of July 1, 1960.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



T. W. Bittick
Assistant Manager
Land Department

TWB:BGI:js

cc: Attached list

El Paso Natural Gas Company
MAIN OFFICE OCC

El Paso, Texas

1960 MAY 23 AM 9:02

May 19 1960

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
P. O. Box 6721
Roswell, New Mexico

Case #543

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: Approval of 1960 Plan of
Development
San Juan 28-6 Unit
Rio Arriba County, New Mexico

Gentlemen:

This is to advise that the 1960 San Juan 28-6 Unit Plan of
Development and Supplement thereto have been approved as follows:

United States Geological Survey -
Original approved March 31, 1960
Supplement approved April 21, 1960

Commissioner of Public Lands -
Original approved March 15, 1960
Supplement approved May 13, 1960

Oil Conservation Commission -
Original approved April 20, 1960
Supplement approved April 20, 1960

A copy of this letter is being sent to all Working Interest
Owners within this Unit.

Very truly yours,

Charles Higgins
Charles Higgins
Area Landman
Land Department

CH:CVD:nl
cc: Attached List

San Juan 28-6 Unit
Working Interest Owners

Mr. R. A. Brown
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
1211 Main Avenue
Durango, Colorado

Mr. R. L. Caldwell
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Mr. C. W. Horstmeier
Sinclair Oil & Gas Company (4)
601 Denver Club Building
Denver 2, Colorado

Skelly Oil Company
P. O. Box 1650
Tulsa 2, Oklahoma

Mr. Tom Bolack
1010 N. Dustin St.
Farmington, New Mexico

Mr. T. F. Harrington
150 Wildwood Way
Woodside, California

Mr. L. O. Speer, Jr. (12)
Pan American Petroleum Corporation
P. O. Box 487
Farmington, New Mexico

Riasan Company
150 Wildwood Way
Woodside, California

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
P. O. Box 192
Sistersville, West Virginia

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

Mr. H. K. Riddle
65 E. Fourth South
Salt Lake City, Utah

Mr. E. K. Boatright
Three States Natural Gas Co.
17th Floor Corrigan Tower
Dallas 1, Texas

MAIN OFFICE OCC

In reply refer to:
Unit Division

1960 MAY 17 AM 8:21

Case #543

May 16, 1960

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

Re: San Juan 28-6 Unit Area
Rio Arriba County, New Mexico

ATTENTION: Mr. Sam Smith

Gentlemen:

On January 5, 1960, you sent this office notice of completion of your Well No. 94 located in Section 36, Township 28-North, Range 6-West, as a dual mesaverde and dakota completion.

You stated in your letter that an initial participating area for the Dakota Formation, effective November 1, 1959, would be submitted.

Please inform us at your earliest convenience why this participating area has not been established and further development of the Dakota Formation included on your 1960 Plan of Development.

Very truly yours,
MURRAY E. MORGAN
Commissioner of Public Lands

BY:
Ted Bilberry, Supervisor
Oil and Gas Division

MEM/MER/m

cc:

USGS- Roswell
OCC- Santa Fe

C
O
P
Y

MAIN OFFICE OCC

In reply refer to:
Unit Division

1960 MAY 17 AM 8:21

Case #543

May 16, 1960

C
O
P
Y

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
Supplement to 1960
Drilling Program

ATTENTION: Mr. Sam Smith

Gentlemen:

We are enclosing two copies of your supplement to the 1960 Drilling Program for San Juan 28-6 Unit Area, which was approved by the Commissioner of Public Lands May 13, 1960.

Please furnish us another copy when fully approved.

Very truly yours,
MURRAY E. MORGAN
Commissioner of Public Lands

BY:
Ted Bilberry, Supervisor
Oil and Gas Division

MEM/DMR/m
cc:

UBGS-Roswell
OCC-Santa Fe

MAIN OFFICE OCC

In reply refer to:
Unit Division

1960 MAY 17 AM 8 21

May 16, 1960

Carl E. ...

C
O
P
Y

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

Re: San Juan 28-6 Unit Area
Rio Arriba County, New Mexico

ATTENTION: Mr. Sam Smith

Gentlemen:

On January 5, 1960, you sent this office notice of completion of your Well No. 94 located in Section 36, Township 28-North, Range 6-West, as a dual mesaverde and dakota completion.

You stated in your letter that an initial participating area for the Dakota Formation, effective November 1, 1959, would be submitted.

Please inform us at your earliest convenience why this participating area has not been established and further development of the Dakota Formation included on your 1960 Plan of Development.

Very truly yours,
MURRAY E. MORGAN
Commissioner of Public Lands

BY:
Ted Bilberry, Supervisor
Oil and Gas Division

MEM/MMR/m

cc:

USGS- Roswell
OCC- Santa Fe

MAIN OFFICE OCC

In reply refer to:
Unit Division

150 MAY 17 AM 9:21

Case 1043

May 17, 1960

C
O
P
Y

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

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
Supplement to 1960
Drilling Program

ATTENTION: Mr. Sam Smith

Gentlemen:

We are enclosing two copies of your supplement to the 1960 Drilling Program for San Juan 28-6 Unit Area, which was approved by the Commissioner of Public Lands May 13, 1960.

Please furnish us another copy when fully approved.

Very truly yours,
MURRAY E. MORGAN
Commissioner of Public Lands

BY:
Ted Bilberry, Supervisor
Oil and Gas Division

MEM/MMR/m

cc:

USGS-Roswell
OCC-Santa Fe

P. O. Box 6721
Roswell, New Mexico

April 21, 1960

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

Attention: Mr. Sam Smith

Gentlemen:

Your supplement to plan of development for 1960, dated April 5, 1960, for the San Juan 28-6 unit area, No. 14-08-001-1051, Rio Arriba County, New Mexico, which proposes the drilling of a Mesaverde formation well in the E $\frac{1}{2}$ sec. 35, T. 28 N., R. 6 W., has been approved on this date subject to like approval by the appropriate State officials. Please furnish us with suitable evidence of State approval.

This well will be drilled on an intervening block admitted to the Mesaverde participating area in its twenty-eighth expansion effective July 1, 1959.

Two approved copies of the plan are enclosed.

Very truly yours,

John A. Anderson
JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Enclosure

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

NEW MEXICO OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Can #543

April 20, 1960

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

Attention: Mr. Sam Smith

**Re: Supplement to 1960 Drilling
Program, San Juan 28-6 Unit,
Rio Arriba County, New Mexico.**

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplement to 1960 Drilling Program for the San Juan 28-6 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 supplement is returned herewith.

Very truly yours,

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

ALP/JEK/pj

cc: State Land Office - Santa Fe

United States Geological Survey - Roswell

**C
O
P
Y**

C. L. CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Case #543

April 20, 1960

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

Attention: Mr. Sam Smith

Re: 1960 Drilling Program,
San Juan 28-6 Unit,
Rio Arriba County, New
Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1960 Drilling Program for the San Juan 28-6 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

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

ALP/JEK/pj

cc: State Land Office - Santa Fe

United States Geological Survey - Roswell

C
O
P
Y

El Paso Natural Gas Company

El Paso, Texas

April 5, 1960

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Supplement to 1960 Drilling Program

Gentlemen:

On February 15, 1960, we submitted to you for approval a Drilling Program for the calendar year 1960 for the subject unit. This program called for the completion of four (4) Pictured Cliffs Wells. By inadvertance, we failed to include on this program the Mesaverde Well required to be drilled on the intervening drilling block described as follows:

Township 28 North, Range 6 West, N.M.P.M.
Section 35: E/2

El Paso Natural Gas Company, as Unit Operator, intends to drill the above listed Mesaverde Well to the base of the Mesaverde Formation using rotary tools. Surface casing of 10 3/4" will be set to approximately 150' below the surface and an intermediate string of 7 5/8" will be set through the Pictured Cliffs Formation to a depth of approximately 3200'. A 5 1/2" production string will be set through the Mesaverde Formation, and the casing of the Mesaverde Formation will then be selectively perforated and the Mesaverde Formation will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.

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

Copies of this Drilling Program are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By


Sam Smith, Manager
Land Department

SS:CVD:cah

WORKING INTEREST OWNERS
SAN JUAN 28-6 UNIT

Mr. R. A. Brown
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
1211 Main Avenue
Durango, Colorado

Mr. R. L. Caldwell
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Mr. C. W. Horstmeier
Sinclair Oil & Gas Company (4)
601 Denver Club Building
Denver 2, Colorado

Skelly Oil Company
P.O. Box 1650
Tulsa 2, Oklahoma

Mr. Tom Bolack
1010 North Dustin St.
Farmington, New Mexico

Mr. T. F. Harrington
935 Chiltun Road
Hillsborough, California

Mr. L. O. Speer, Jr. (12)
Pan American Petroleum Corporation
P.O. Box 487
Farmington, New Mexico

Riasan Company
150 Wildwood Way
Woodside, California

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
P.O. Box 1419
Albuquerque, New Mexico

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
P.O. Box 192
Sistersville, West Virginia

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

Mr. H. K. Riddle
65 East Fourth, South
Salt Lake City, Utah

Mr. E. K. Boatright
Three States Natural Gas Company
17th Floor, Corrigan Tower
Dallas, Texas

APPROVED: _____
Supervisor, United States Geological
Survey

DATE: _____

Subject to like approval by the appropriate State Officials.

APPROVED: _____
Commissioner of Public Lands of the
State of New Mexico

DATE: _____

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

APPROVED: *G. H. Peters*
Oil Conservation Commission of the
State of New Mexico

DATE: *4-20-60*

Subject to like approval by the United States Geological Survey
and the Commissioner of Public Lands.

The foregoing approvals are for the Supplement to the 1960 Drilling Program for
the San Juan 28-6 Unit, No. 14-08-001-1051.

P. O. Box 6721
Roswell, New Mexico

March 31, 1960

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

Attention: Mr. Sam Smith

Gentlemen:

Your plan of development for 1960, dated February 15, 1960, for the San Juan 28-6 unit area, No. 14-08-001-1051, Rio Arriba County, New Mexico, which proposes the drilling of one well to the Pictured Cliffs formation and the dual completion in Pictured Cliffs and Mesaverde formations of three existing Mesaverde wells, has been approved on this date subject to like approval by the appropriate State Officials. Please furnish us with suitable evidence of State approval.

Our records indicate that the E $\frac{1}{2}$ sec. 35, T. 28 N., R. 6 W., is an intervening drilling block admitted to the Mesaverde participating area in its twenty eighth expansion effective July 1, 1959. Please submit a supplemental plan of development to include a Mesaverde well on this block.

Two approved copies of the plan are enclosed.

Very truly yours,

EDWIN M. THOMASSON
Acting Oil and Gas Supervisor

Enclosures

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

100-4343
P. O. Box 6721
Roswell, New Mexico

February 25, 1960

Pubco Petroleum Corporation
P. O. Box 1419
Albuquerque, New Mexico

Attention: Mr. Forrest G. Daniell, Jr.

Gentlemen:

Your letter of January 28 transmitted for approval four executed copies of an instrument entitled "Designation of Sub-Operator" whereby El Paso Natural Gas Company, as unit operator under the San Juan 28-6 unit agreement, designates Pubco Petroleum Corporation, which is the working interest owner, sub-operator for the sole purpose of drilling a Pictured Cliffs formation well in the E $\frac{1}{4}$ sec. 9, T. 27 N., R. 6 W., N.M.P.M., Rio Arriba County, New Mexico pursuant to Section 13 of the unit agreement.

The designations you have submitted are being accepted for record purposes as evidence that El Paso Natural Gas Company as unit operator, elects not to drill a Pictured Cliffs formation well in the E $\frac{1}{4}$ sec. 9, T. 27 N., R. 6 W. and that Pubco Petroleum Corporation will, at its sole risk and expense, drill said well. Prior to commencement of the well all appropriate forms and notices must be submitted to the District Engineer at Farmington for approval.

Very truly yours,

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Wash. (w/cy designation)
BLM-Santa Fe "
Farmington "
Comm. Pub. Lands - Santa Fe (Ltr only)
OCC - Santa Fe "

El Paso Natural Gas Company

El Paso, Texas

February 15, 1960

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1960 DRILLING PROGRAM

Gentlemen:

By letter dated January 2, 1959, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned Unit for the calendar year 1959. Said Program provided for the drilling of two (2) dual Mesaverde-Pictured Cliffs wells, two (2) Mesaverde wells, and two (2) Pictured Cliffs wells. This Program was modified by changing one Mesaverde well to a dual Mesaverde-Pictured Cliffs well and the other scheduled Mesaverde well to a dual Mesaverde-Dakota well. One Pictured Cliffs well was postponed until 1960. Therefore, during the course of the year 1959, one (1) Pictured Cliffs well, three (3) dual Mesaverde-Pictured Cliffs wells and one (1) dual Mesaverde-Dakota well were completed on lands committed to the Unit, and have been admitted or are in the process of being admitted to their respective Participating Areas.

As of this date, the total number of wells in the San Juan 28-6 Unit is as follows:

Pictured Cliffs	3
Mesaverde	71
Dual, Mesaverde-Pictured Cliffs	14
Dual, Mesaverde-Dakota	1
Mesaverde, Non-Commercial	1

Pursuant to Section 10 of the San Juan 28-6 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is herewith submitting this Drilling Program providing for the drilling of the following described wells during the period January 1, 1960 to December 31, 1960:

<u>DRILLING BLOCK</u>	<u>FORMATION</u>
*W/2 Section 10, T-27-N, R-6-W	Pictured Cliffs
**W/2 Section 15, T-27-N, R-6-W	Pictured Cliffs
*W/2 Section 9, T-27-N, R-6-W	Pictured Cliffs
E/2 Section 9, T-27-N, R-6-W	Pictured Cliffs

In addition to the above wells, El Paso Natural Gas Company, as Unit Operator, also plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners in the affected drilling blocks.

El Paso Natural Gas Company, as Unit Operator, intends to drill the above listed Pictured Cliffs well to the base of the Pictured Cliffs Formation using rotary and cable tools. Surface casing will be set to approximately 100' from the surface, and then a production string of 5 1/2" casing will be set through the Pictured Cliffs Formation. Mud will be used in drilling through the Pictured Cliffs Formation and cable tools will be used for completion work. The entire Pictured Cliffs Formation will be subjected to a hydraulic fracturing process. Due care will be taken to protect all horizons.

El Paso Natural Gas Company, as Unit Operator, intends to dually complete the above-listed Pictured Cliffs wells (designated by one asterisk,*) with existing Mesaverde wells. A temporary bridge plug will be set between the Mesaverde and Pictured Cliffs Formations. The Pictured Cliffs Formation will be checked to see that it is covered by cement, and if it is not covered, it is intended to perforate below the Pictured Cliffs Formation and either circulate or squeeze cement over the Pictured Cliffs Formation. The Pictured Cliffs Formation will then be selectively perforated and subjected to a hydraulic fracturing process. After clean-out following the fracturing operation, the temporary bridge plug between the formations will be drilled out and a production packer will be set between the Pictured Cliffs and Mesaverde Formations. To produce the Mesaverde Formation, a string of 2" tubing will be set through the production packer and landed opposite the Mesaverde. A string of 1 1/4" tubing will be run through which the Pictured Cliffs Formation will be produced. Due care will be taken to protect all horizons.

El Paso Natural Gas Company, as Unit Operator, intends to dually complete the above-listed Pictured Cliffs well (designated by two asterisks,**) with an existing Mesaverde well, and at the same time rework the Mesaverde Formation in said well. The workover operation on the Mesaverde Formation will consist of cleaning out the open-hole section of the well to the base of the Mesaverde, after which a 5 1/2" production liner will be run and cemented to cover the Mesaverde. The Mesaverde section will then be selectively perforated and subjected to a hydraulic fracturing process. To dually complete the well in the Pictured Cliffs Formation, a temporary bridge plug will be set between the Mesaverde and Pictured Cliffs Formations. The Pictured Cliffs Formation will be checked to see that it is covered by cement, and if it is not covered, it is intended to perforate below the Pictured Cliffs Formation and either circulate or squeeze cement over the Pictured Cliffs Formation. The Pictured Cliffs Formation will then be selectively perforated and subjected to a hydraulic fracturing process. After clean-out following the fracturing process, the temporary bridge plug between the formations will be drilled out and a production packer will be


set between the Pictured Cliffs and Mesaverde Formations. To produce the Mesaverde Formation, a string of 2" tubing will be set through the production packer and landed opposite the Mesaverde. A string of 1 1/4" tubing will be run through which the Pictured Cliffs Formation will be produced. Due care will be taken to protect all horizons.

All of the Working Interest Owners have been notified and this Drilling Program reflects, insofar as possible, their requests 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.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
Sam Smith, Manager
Land Department

SS:BGI:pc

cc: Attached List

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

DATE: _____

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

DATE: _____

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

DATE: 4-28-60

The foregoing approvals are for the 1960 Drilling Program for the San Juan 28-6 Unit, Rio Arriba County, New Mexico.

El Paso Natural Gas Company

El Paso, Texas

February 12, 1960

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
TENTH EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation
Effective January 1, 1960

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, Number 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #93-36 Well, located 990' from the South line and 1090' from the West line of Section 36, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on November 22, 1959 and completed on December 10, 1959, at a total depth of 5473'. The Pictured Cliffs Formation from 3102' - 3132', 3136' - 3144' was treated with a sand-water fracturing process. After being shut-in for seventeen (17) days, the well was tested in the Pictured Cliffs Formation on December 28, 1959 and following a three (3) hour blow-down period gauged 3067 MCFGPD through a 3/4" choke and 11,222 MCFGPD by the calculated absolute open-flow method, with an SIPT of 1062# and an SIPC of 1061#. The committed drilling block upon which this well is located is described as the W/2 of Section 36, Township 28 North, Range 6 West,

El Paso Natural Gas Company

El Paso, Texas

February 12, 1960

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
TENTH EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation
Effective January 1, 1960

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, Number 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #93-36 Well, located 990' from the South line and 1090' from the West line of Section 36, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on November 22, 1959 and completed on December 10, 1959, at a total depth of 5473'. The Pictured Cliffs Formation from 3102' - 3132', 3136' - 3144' was treated with a sand-water fracturing process. After being shut-in for seventeen (17) days, the well was tested in the Pictured Cliffs Formation on December 28, 1959 and following a three (3) hour blow-down period gauged 3067 MCFGPD through a 3/4" choke and 11,222 MCFGPD by the calculated absolute open-flow method, with an SIPT of 1062# and an SIPC of 1061#. The committed drilling block upon which this well is located is described as the W/2 of Section 36, Township 28 North, Range 6 West,

N.M.P.M., Rio Arriba County, New Mexico, containing 321.21 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation was made on December 28, 1959.


Under the terms of the San Juan 28-6 Unit Agreement, the above-described drilling block is admitted to the Participating Area for the Pictured Cliffs Formation as of January 1, 1960.

The San Juan 28-6 Unit #93-36 Well is a dual completion well, having been completed in both the Pictured Cliffs and Mesaverde Formations. The drilling block upon which said well is located was included in the Twenty-Seventh Expanded Participating Area for the Mesaverde Formation, effective December 1, 1958, as an intervening drilling block.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
T. W. Bittick
Assistant Manager
Land Department

TWB:BGI:pc

cc: Attached List

El Paso Natural Gas Company

El Paso, Texas

January 5, 1960

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELL

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit. This well is as follows:

The San Juan 28-6 Unit #94 Well, located 990' from the North line and 1650' from the East line of Section 36, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on July 27, 1959, and completed on November 19, 1959 at a total depth of 7920'. The Mesaverde Formation from 5097' - 5100', 5110' - 5116', 5130' - 5144', 5148' - 5156', 5322' - 5336', 5526' - 5592', 5604' - 5624' was treated with a sand-water fracturing process. After being shut-in for eleven (11) days, the well was tested in the Mesaverde Formation on November 30, 1959, and following a three (3) hour blow-down period gauged 2300 MCFGPD through a 3/4" choke and 2760 MCFGPD by the calculated absolute open flow method, with an SIPT of 1053# and an SIPC of 1053#. The committed drilling block upon which this well is located is described as the E/2 of Section 36, Township 28 North Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 320.23 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Mesaverde Formation was made on November 30, 1959.

El Paso Natural Gas Company

El Paso, Texas

January 5, 1960

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELL

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit. This well is as follows:

The San Juan 28-6 Unit #94 Well, located 990' from the North line and 1650' from the East line of Section 36, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on July 27, 1959, and completed on November 19, 1959 at a total depth of 7920'. The Mesaverde Formation from 5097' - 5100', 5110' - 5116', 5130' - 5144', 5148' - 5156', 5322' - 5336', 5526' - 5592', 5604' - 5624' was treated with a sand-water fracturing process. After being shut-in for eleven (11) days, the well was tested in the Mesaverde Formation on November 30, 1959, and following a three (3) hour blow-down period gauged 2300 MCFGPD through a 3/4" choke and 2760 MCFGPD by the calculated absolute open flow method, with an SIPT of 1053# and an SIPC of 1053#. The committed drilling block upon which this well is located is described as the E/2 of Section 36, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 320.23 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Mesaverde Formation was made on November 30, 1959.

The drilling block was included in the San Juan 28-6 Unit Twenty-Sixth Expanded Participating Area, effective August 1, 1958, as an intervening drilling block.

The San Juan 28-6 Unit #94 Well is a dual completion well, having been completed in both the Mesaverde and Dakota Formations. The subject well will be shown on Schedule I for the Initial Participating Area for the Dakota Formation, effective November 1, 1959. The said schedule will be submitted at a later date.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By *Harry Gevertz*
Harry Gevertz
Area Landman
Land Department
Oy CA

HG:BGI:pc

Attachment

El Paso Natural Gas Company

El Paso, Texas

November 23, 1959

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: SAN JUAN 28-6 UNIT, #14-08-001-1051
Rio Arriba County, New Mexico
TWENTY-NINTH EXPANDED PARTICIPATING
AREA, Mesaverde Formation
Effective November 1, 1959

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, Number 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to the Unit. This well is as follows:

The San Juan 28-6 Unit #85 Well, located 1840' from the North line and 1460' from the East line of Section 25, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on September 1, 1959 and completed on September 20, 1959, at a total depth of 5444'. The Mesaverde Formation between 4760' - 4770', 4802' - 4812', 5272' - 5280', 5308' - 5316', 5328' - 5334', 5342' - 5350', 5388' - 5398' was treated with a sand-water fracturing process. After being shut-in for twenty-four (24) days, the well was tested in the Mesaverde Formation on October 14, 1959, and following a three (3) hour blow-down period gauged 3736 MCFGPD through a 3/4" choke and 5106 MCFGPD by the calculated absolute open-flow method with an SIPT of 1081#. The committed drilling block upon which this well is located is described as the E/2 of Section 25, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 320.00 acres. The determination that

this well is capable of producing unitized substances in paying quantities from the Mesaverde Formation was made on October 14, 1959.

Under the terms of the San Juan 28-6 Unit Agreement, the above described drilling block is admitted to the Mesaverde Participating Area as of November 1, 1959.

The San Juan 28-6 Unit #85 Well is a dual completion well, having been completed in both the Pictured Cliffs and Mesaverde Formations. Said well will be included in the Ninth Expanded Participating Area for the Pictured Cliffs Formation, effective November 1, 1959, which will be submitted under separate cover.

Attached is Schedule XXX showing the Twenty-Ninth Expanded Participating Area for the Mesaverde Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Ninth Expanded Participating Area will become effective as of November 1, 1959.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By T. W. Bittick
T. W. Bittick
Assistant Manager
Land Department

TWB:BGI:pc

El Paso Natural Gas Company

El Paso, Texas

November 13, 1959

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
NINTH EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation
Effective November 1, 1959

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #85 Well, located 1840' from the North line and 1460' from the East line of Section 25, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on September 1, 1959 and completed on September 20, 1959 at a total depth of 5444'. The Pictured Cliffs Formation from 3066' - 3074'; 3084' - 3094'; 3102' - 3116' was treated with a sand-water fracturing process. After being shut-in for thirty-two (32) days, the well was tested in the Pictured Cliffs Formation on October 22, 1959, and following a three (3) hour blow-down period gauged 1878 MCFGPD through a 3/4" choke and 1915 MCFGPD by the calculated absolute open-flow method, with an SIPT of 1068# and an SIPC of 1068#. The committed drilling block upon which this well is located is described as the E/2 of Section 25, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation was made on October 22, 1959.

Under the terms of the San Juan 28-6 Unit Agreement, the above described drilling block is admitted to the Pictured Cliffs Participating Area as of November 1, 1959.

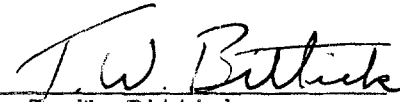
The San Juan 28-6 Unit #85 Well is a dual completion well, having been completed in both the Pictured Cliffs and Mesaverde Formations. Said well will be included in the Twenty-Ninth Expanded Participating Area for the Mesaverde Formation, effective November 1, 1959, which will be submitted under separate cover.

Attached is Schedule X showing the Ninth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Ninth Expanded Participating Area will become effective as of November 1, 1959.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
T. W. Bittick
Assistant Manager
Land Department

TWB:BGI:ch

El Paso Natural Gas Company

El Paso, Texas

August 25, 1959

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

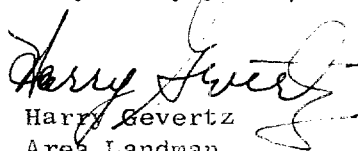
Re: San Juan 28-6 Unit
#14-08-001-1051
Rio Arriba County, New Mexico

Gentlemen:

Transmitted herewith is one copy of the letter setting forth data regarding the San Juan 28-6 Unit #92 Well, a dual completion Pictured Cliffs-Mesaverde Well. Also attached is one copy of Schedule IX describing the Eighth Expanded Participating Area for the Pictured Cliffs Formation.

The map setting out the Participating Area for the Pictured Cliffs Formation and the drilling block being admitted to the Participating Area under this present Eighth Expansion was previously submitted to your attention with the Twenty-Eighth Expanded Participating Area for the Mesaverde Formation.

Very truly yours,



Harry Gevertz
Area Landman
Land Department

HG:BGI:ch

El Paso Natural Gas Company

El Paso, Texas

August 20, 1959

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
EIGHTH EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation
Effective July 1, 1959

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #92 Well, located 1790' from the North line and 1550' from the East line of Section 2, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on May 23, 1959 and completed on June 13, 1959 at a total depth of 5621'. The Pictured Cliffs Formation from 3238' - 3254', 3282' - 3304' was treated with a sand-water fracturing process. After being shut-in for seven (7) days, the well was tested in the Pictured Cliffs Formation on June 30, 1959, and following a three (3) hour blow-down period gauged 1241 MCFGPD through a 3/4" choke and 1254 MCFGPD by the calculated absolute open-flow method, with an SIPT of 984# and an SIPC of 983#. The committed drilling block upon which this well is located is described as the E/2 of Section 2, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 320.32 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation was made on June 30, 1959.

The completion of the San Juan 28-6 Unit #92 Well creates no Pictured Cliffs intervening drilling blocks. In support of Unit Operator's determination that the W/2 of Section 1, Township 27 North, Range 6 West is not an intervening drilling block, reference is made to the well logs and other engineering data submitted to the United States Geological Survey in connection with the workover operations performed on the San Juan 28-6 Unit #26 Well from October 9, 1958 to November 11, 1958. During the workover operations on said well the Pictured Cliffs Formation was perforated from 3280' - 3304', 3320' - 3340' and the formation was then treated with a sand-water fracturing process. The formation was found incapable of producing gas and thereafter the Pictured Cliffs perforations were squeezed off with 700 sacks of cement.


Unit Operator construes the examination of the Pictured Cliffs Formation during the said workover operations on the San Juan 28-6 Unit #26 Well to constitute the drilling of a well. Therefore, Unit Operator considers the W/2 of Section 1, Township 27 North, Range 6 West to be a block upon which a dry hole in the Pictured Cliffs Formation was completed, thereby precluding the admission of said block to the Participating Area for the Pictured Cliffs Formation as an intervening drilling block.

The San Juan 28-6 Unit #92 Well is a dual completion well, having been completed in both the Pictured Cliffs and Mesaverde Formations. Said well will be included in the Twenty-Eighth Expanded Participating Area for the Mesaverde Formation, effective July 1, 1959, which will be submitted under separate cover.

Attached is Schedule IX showing the Eighth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Eighth Expanded Participating Area will become effective as of July 1, 1959.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
Sam Smith, Manager
Land Department

SS:BGI ch

El Paso Natural Gas Company

El Paso, Texas

July 27, 1959

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELL
AND TWENTY-EIGHTH EXPANDED PARTICIPATING
AREA
Mesaverde Formation
Effective July 1, 1959

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to the Unit. This well is as follows:

The San Juan 28-6 Unit #92 Well, located 1790' from the North line and 1550' from the East line of Section 2, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on May 23, 1959, and completed on June 13, 1959, at a total depth of 5621'. The Mesaverde Formation between 4900' - 4914'; 5000' - 5014'; 5396' - 5406'; 5430' - 5440'; 5450' - 5460'; 5472' - 5482'; 5512' - 5522' was treated with a sand-water fracturing process. After being shut-in for ten (10) days, the well was tested in the Mesaverde Formation on June 23, 1959, and following a three (3) hour blow-down period gauged 3185 MCFGPD through a 3/4" choke and 3997 MCFGPD by the calculated absolute open-flow method with an SIPT of 1045#.

The committed drilling block upon which this well is located is described as the E/2 of Section 2, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 320.32 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Mesaverde Formation was made on June 23, 1959. This drilling block was included in the San Juan 28-6 Unit Twenty-Seventh Expanded Participating Area, effective December 1, 1958, as an intervening drilling block.

The completion of the San Juan 28-6 Unit #92 Well creates one (1) intervening drilling block which is described as the E/2 of Section 35, Township 28 North, Range 6 West, N.M.P.M., containing 322.04 acres.

Under the terms of the San Juan 28-6 Unit Agreement, the above described drilling block is admitted to the Mesaverde Participating Area as of July 1, 1959. A well must be commenced on the said block by July 1, 1960.

The San Juan 28-6 Unit #92 Well is a dual completion well, having been completed both in the Pictured Cliffs and the Mesaverde Formations. Said well will be included in the Eighth Expanded Participating Area for the Pictured Cliffs Formation, effective July 1, 1959, which will be submitted under separate cover.

Attached is Schedule XXIX showing the Twenty-Eighth Expanded Participating Area for the Mesaverde Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Eighth Expanded Participating Area will become effective as of July 1, 1959.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



T. W. Bittick
Assistant Manager
Land Department

TWB:BGI:ic
Attachment

P. O. Box 6721
Roswell, New Mexico

February 3, 1959

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

Attention: Mr. Sam Smith

Gentlemen:

Your 1959 Plan of Development, dated January 2, 1959, for the San Juan 28-6 unit area No. 14-03-001-1051 Rio Arriba County, New Mexico, proposing the drilling of six wells, including, two Pictured Cliffs formation wells, two Mesaverde wells, and two wells to be dually completed in the Pictured Cliffs and Mesaverde formations, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

EDWIN H. THOMSON
Acting Oil and Gas Supervisor

Enclosure 2

Copy to: Washington (w/copy of plan)
Farmington (w/copy of plan)
UNOCC, Santa Fe (letter only)
Comm. Pub. Lands, Santa Fe (letter only)

OIL CONSERVATION COMMISSION

P. O. BOX 871
SANTA FE, NEW MEXICO

File
542

January 29, 1959

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

ATTENTION: Mr. Sam Smith

RE: 1959 Drilling Program
San Juan 28-6 Unit
Rio Arriba County,
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1959 Drilling Program for the San Juan 28-6 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 application is returned herewith.

Very truly yours,

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

AIP/RLS/ig

cc: State Land Office - Santa Fe
US Geological Survey - Roswell

C
O
P
Y

El Paso Natural Gas Company

El Paso, Texas

January 2, 1959

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
1959 DRILLING PROGRAM

Gentlemen:

By letter dated January 20, 1958, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned Unit for the calendar year 1958. Said Program provided for the drilling of two (2) Mesaverde wells, six (6) dual Mesaverde-Pictured Cliffs wells, and two (2) Pictured Cliffs wells. In addition, one (1) Mesaverde Non-Commercial well was reworked and successfully recompleted as a commercial Mesaverde well. All eleven (11) wells have been completed on lands committed to the Unit, and have been admitted or are in the process of being admitted to their respective Participating Areas.

As of this date, the total number of wells in the San Juan 28-6 Unit is as follows:

Dual, Mesaverde-Pictured Cliffs	11
Mesaverde	71
Mesaverde Non-Commercial	1
Pictured Cliffs	2

Pursuant to Section 10 of the San Juan 28-6 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is herewith submitting this Drilling Program providing for the drilling of the following described wells during the period from January 1, 1959 to December 31, 1959:

DRILLING BLOCK

E/2 Section 25, T-27-N, R-6-W

W/2 Section 15, T-27-N, R-6-W

FORMATION

Dual, Pictured Cliffs
and Mesaverde
Pictured Cliffs

DRILLING BLOCK

W/2 Section 14, T-27-N, R-6-W
E/2 Section 2, T-27-N, R-6-W

W/2 Section 36, T-28-N, R-6-W
E/2 Section 36, T-28-N, R-6-W

FORMATION

Pictured Cliffs
Dual, Pictured Cliffs
and Mesaverde
Mesaverde
Mesaverde

In addition to the above wells, El Paso Natural Gas Company, as Unit Operator, also plans to drill any off-set wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners in the affected drilling blocks.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Pictured Cliffs wells to the base of the Pictured Cliffs Formation using rotary and cable tools. Surface casing will be set to approximately 100' from the surface, and then a production string of 5 1/2" casing will be set through the Pictured Cliffs Formation. Mud will be used in drilling through the Pictured Cliffs Formation and cable tools will be used for completion work. The entire Pictured Cliffs Formation will be subjected to a hydraulic fracturing process. Due care will be taken to protect all horizons.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Mesaverde-Pictured Cliffs dual wells to the base of the Mesaverde Formation using rotary tools. Surface casing of 10 3/4" will be set to approximately 150' below the surface and an intermediate string of 7 5/8" will be set through the Pictured Cliffs Formation to a depth of approximately 3200'. A 5 1/2" production liner will be set from this point through the Mesaverde Formation. The Mesaverde Formation will then be selectively perforated and subjected to a hydraulic fracturing process, after which a bridging plug will be set above the Mesaverde Formation and the Pictured Cliffs Formation will be selectively perforated and subjected to a hydraulic fracturing process. For completion, a production packer will be set between the two formations using 2" tubing to produce the Mesaverde. A string of 1 1/4" tubing will be run, through which the Pictured Cliffs Formation will be produced. Mud will be used in setting the intermediate string of casing and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.


El Paso Natural Gas Company, as Unit Operator, intends to drill the above listed Mesaverde well to the base of the Mesaverde Formation using rotary tools. Surface casing of 10 3/4" will be set to approximately 150' below the surface and an intermediate string of 7 5/8" will be set through the Pictured Cliffs Formation to a depth of approximately 3200'. A 5 1/2" production string will be set through the Mesaverde Formation, and the casing of the Mesaverde Formation will then be selectively perforated and the Mesaverde Formation will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.

All of the Working Interest Owners have been notified and this Drilling Program reflects, insofar as possible, their requests 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.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
Sam Smith
Manager
Land Department

SS:BGI:pc

cc: Attached List

APPROVED: _____

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

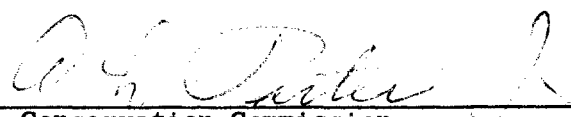
DATE: _____

APPROVED: _____

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

DATE: _____

APPROVED: _____


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

DATE: March 5 1959

The foregoing approvals are for the 1959 Drilling Program for the San Juan
28-6 Unit, Rio Arriba County, New Mexico.

San Juan 28-6 Unit
Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. A. Brown
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
1211 Main Avenue
Durango, Colorado

Mr. R. N. Richey (2)
Mr. M. J. Jordan (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Mr. C. W. Horstmeier
Attn: Mr. J. W. Jackson
Sinclair Oil and Gas Company (5)
601 Denver Club Building
Denver 2, Colorado

Sinclair Oil and Gas Company
Sinclair Oil Building
Tulsa, Oklahoma

Skelly Oil Company
Post Office Box 1650
Tulsa 2, Oklahoma

Mr. Tom Bolack
1010 N. Dustin Street
Farmington, New Mexico

Mr. T. F. Harrington
935 Chiltun Road
Hillsborough, California

Mr. E. V. Hewitt (12)
Pan American Petroleum Corp.
Post Office Box 1410
Fort Worth, Texas

Pan American Petroleum Corp.
Post Office Box 1714
Albuquerque, New Mexico

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
Post Office Box 1419
Albuquerque, New Mexico

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
Post Office Box 192
Sistersville, West Virginia

Riasan Company
150 Wildwood Way
Woodside, California

Texas National Petroleum Company
902 South Coast Building
Houston 2, Texas

Mr. R. E. Beamon
1303 Esperson Building
Houston 2, Texas

Mr. H. K. Riddle
65 East Fourth South
Salt Lake City, Utah

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

El Paso Natural Gas Company

El Paso, Texas

December 19, 1958

File
543

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
TWENTY-SEVENTH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective December 1, 1958

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that the following well is capable of producing unitized substances in paying quantities from the Mesaverde Formation following workover operations. The well is located on acreage committed to the San Juan 28-6 Unit and is as follows:

The San Juan 28-6 Unit #26 Well, located 994' from the South line and 1652' from the West line of Section 1, Township 27 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on June 7, 1955 and originally completed on July 7, 1955 at a total depth of 5605'. The Mesaverde Formation between 4857' - 5075' and 5179' - 5605' was treated with a sand oil fracturing process. After being shut-in for twelve (12) days, the well was tested in the Mesaverde Formation on July 19, 1955, and following a three (3) hour blow-down period gauged 1191 MCFGPD on open-flow test with an SIPT of 1063# and an SIPC of 1072#. Under the terms of the Unit Agreement this well was at that time determined to be non-commercial and the block upon which it is located was not admitted to the Participating Area.

On October 9, 1958 workover operations were commenced on this well to improve its producing ability and said operations were completed on November 18, 1958. A 5½" liner was set from 4788' to 5575' and the well was cleaned out to 5560'. The Mesaverde Formation between 5176' - 5196', 5240' - 5246', 5298' - 5316', 5326' - 5334', 5382' - 5388', 5434' - 5444', 5450' - 5466', 5490' - 5500', 5506' - 5512', 5520' - 5532' was treated with a sand-water fracturing process. After being shut-in for ten (10) days, the well was tested in the Mesaverde Formation on November 29, 1958, and following a three (3) hour blow-down period gauged 2869 MCFGPD through a 3/4" choke, and 3947 MCFGPD by the calculated absolute open-flow method, with an SIPT of 951# and an SIPC of 970#. The committed drilling block upon which this well is located is described as the W/2 of Section 1, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 320.32 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on November 29, 1958.

The completion of the San Juan 28-6 Unit #26 Well creates two (2) intervening drilling blocks which are described as the E/2 of Section 2, Township 27 North, Range 6 West, N.M.P.M., containing 320.32 acres, and the W/2 of Section 36, Township 28 North, Range 6 West, N.M.P.M., containing 321.21 acres.

Under the terms of the San Juan 28-6 Unit Agreement, the above described drilling blocks are admitted to the Mesaverde Participating Area as of December 1, 1958. A well must be commenced on each of the two said blocks by December 1, 1959.

Attached is Schedule XXVIII showing the Twenty-Seventh Expanded Participating Area for the Mesaverde Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Seventh Expanded Participating Area will become effective as of December 1, 1958.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 

T. W. Bittick
Assistant Manager
Land Department

TWB:BGI:ch
Attachment

El Paso Natural Gas Company

El Paso, Texas

November 7, 1958

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
P. O. Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Bldg.
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Bldg.
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELL

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this Unit. This well is as follows:

The San Juan 28-6 Unit #88-35 Well, located 1837' from the South line and 1090' from the West line of Section 35, Township 28 North, Range 6 West, Rio Arriba County, New Mexico, was spudded on July 22, 1958, and completed on August 1, 1958 at a total depth of 5700'. The Mesaverde Formation from 4972'-4988', 5002'-5008', 5016'-5024', 5026'-5032', 5040'-5044', 5048'-5052', 5056'-5060', 5064'-5068', 5082'-5092', 5096'-5106', 5110'-5118', 5122'-5126', 5266'-5276', 5290'-5298', 5342'-5362', 5398'-5412', 5484'-5502', 5506'-5526', 5530'-5554', 5558'-5564', 5568'-5584', 5592'-5618', 5620'-5624', 5628'-5638' was treated with a sand-water fracturing process. After being shut-in for ten (10) days, the well was tested in the Mesaverde Formation on October 13, 1958, and following a three (3) hour blow-down period gauged 4393 MCFGPD through a 3/4" choke and 4942 MCFGPD by the calculated absolute open-flow method, with an SIPT of 1068# and an SIPC of 1064#. The committed drilling block upon which this well is located is described as the W/2 of Section 35, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 323.48 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on October 13, 1958.

The drilling block was included in the San Juan Twenty-Fourth Expanded Participating Area for the Mesaverde Formation, effective January 1, 1958, as an intervening drilling block. Therefore, the Participating Area is not enlarged, and the percentages allocated to the tracts shown on Schedule XXV for the Twenty-Fourth Expanded Participating Area remain the same.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By


Harry Covertz

Area Landman

Land Department

HG:BGI:pc

cc: Attached Sheet

P.O. Box 6721
Roswell, New Mexico

File 547
April 14, 1958

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

Attention: Mr. Sam Smith

Gentlemen:

Your plan of development dated January 20, 1958, for the San Juan 28-6 Unit Area, New Mexico, which provides for the drilling of two Pictured Cliffs wells, two Masoverda wells, and six dual, Pictured Cliffs-Masoverda wells, for the calendar year 1958, has been approved on this date subject to like approval by the appropriate State of New Mexico officials.

Two approved copies of the plan are enclosed.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Washington (w/copy of plan)
Farmington (w/copy of plan)
✓ Comm. of Public Lands, Santa Fe (letter only)
Oil Cons. Comm., Santa Fe (letter only)

RFEvans:baw

In reply refer to:
Unit Division

April 11, 1958

Case 543

El Paso Natural Gas Company
El Paso, Texas

Re: San Juan 28-6 Unit
Rio Arriba County, N.M.
1958 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

We are enclosing one copy of the 1958 Drilling Program for the San Juan 28-6 Unit, dated January 20, 1958 and which was received by this office April 10, 1958.

This program was approved by the Commissioner of Public Lands April 11, 1958.

Very truly yours,

MURRAY E. MORGAN,
Commissioner of Public Lands

BY:

Ted Bilberry, Supervisor
Oil and Gas Division

HEM/EAR/s
cc:

USGS

OCC ✓

In reply refer to:
Unit Division

April 11, 1958

Carl 543

El Paso Natural Gas Company
El Paso, Texas

Re: San Juan 28-6 Unit
Rio Arriba County, N.M.
1958 Drilling Program

Attention: Mr. Sam Smith

Gentlemen:

We are enclosing one copy of the 1958 Drilling Program for the San Juan 28-6 Unit, dated January 20, 1958 and which was received by this office April 10, 1958.

This program was approved by the Commissioner of Public Lands April 11, 1958.

Very truly yours,

MURRAY E. MORGAN,
Commissioner of Public Lands

BY:

Ted Bilberry, Supervisor
Oil and Gas Division

MEM/MMR/s
cc:

USGS
OCC ✓

El Paso Natural Gas Company

El Paso, Texas

February 26, 1958

File
C-54

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELL

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below, that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit:


The San Juan 28-6 Unit #71 Well is located 800' from the North line and 1600' from the East line of Section 13, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on September 22, 1957, and completed on December 4, 1957, at a total depth of 5815'. The Mesaverde Formation between 5528' - 5546', 5602' - 5612', 5630' - 5656', 5680' - 5708', 5720' - 5727' was treated with a sand-water fracturing process. After being shut-in for gauge for forty-four (44) days, the well was tested on January 17, 1958, and following a three hour blow-down period gauged 4939 MCFGPD through a 3/4" choke and 11,350 MCFGPD by the calculated absolute open-flow method with an SIPC of 1103# and an SIPT of 1103#. The committed drilling block upon which this well is located is described as the E/2 of Section 13, Township 28 North, Range 6 West, N.M.P.M., and consists of 320.00 acres.

The drilling block was included in the San Juan 28-6 Nineteenth Expanded Participating Area, effective December 1, 1956, as an intervening drilling block. Therefore, the Participating Area is not enlarged, and the percentages allocated to the tracts shown on Schedule XX for the Nineteenth Expanded Participating Area remain the same.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
Harry Gevertz
Area Landman
Land Department

HG:SHM:c1

cc: Attached list

San Juan 28-6 Unit
Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. A. Brown
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
1211 Main Avenue
Durango, Colorado

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Sinclair Oil and Gas Company (5)
Denver Club Building
Denver 2, Colorado

Sinclair Oil & Gas Company
Sinclair Oil Building
Tulsa, Oklahoma

Skelly Oil Company
Post Office Box 1650
Tulsa 2, Oklahoma

Mr. Tom Bolack
1010 N. Dustin Street
Farmington, New Mexico

Mr. T. F. Harrington
615 Simms Building
Albuquerque, New Mexico

Mr. E. V. Hewitt (12)
Pan American Petroleum Corporation
Post Office Box 1410
Fort Worth, Texas

Pan American Petroleum Corporation
Post Office Box 1714
Albuquerque, New Mexico

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
Post Office Box 1419
Albuquerque, New Mexico

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
Post Office Box 192
Sistersville, West Virginia

Riasan Company
165 Simms Building
Albuquerque, New Mexico

Texas National Petroleum Company
902 South Coast Life Building
Houston 2, Texas

Mr. R. E. Beamon
346 Esperson Building
Houston 2, Texas

Mr. H. K. Riddle
65 East Fourth South
Salt Lake City, Utah

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

File
543
El Paso Natural Gas Company

El Paso, Texas

January 31, 1958

FILED IN 1:34

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
FOURTH EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation
Effective January 1, 1958

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below, that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed on acreage committed to this Unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #77 Well is located 1660' from the South line and 1750' from the West line of Section 2, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on September 17, 1957 and completed on November 11, 1957 at a total depth of 5645'. The Pictured Cliffs Formation between 3250' - 3262', 3290' - 3314' was treated with a sand-water fracturing process. After being shut-in for gauge for sixteen (16) days, the well was tested on December 13, 1957, and following a three (3) hour blow-down period gauged 1717 MCFGPD through a 3/4" choke and 1749 MCFGPD by the calculated absolute open-flow method with an SIPC of 1063# and an SIPT of 1063#. The committed drilling block upon which this well is located is described as the W/2 of Section 2, Township

27 North, Range 6 West, N.M.P.M., and consists of 320.10 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation was made on December 13, 1957.

The San Juan 28-6 Unit #77 Well is a dual completion well, therefore the Mesaverde Participating Area will be expanded accordingly. Said well will be included in the Twenty-Fourth Expanded Participating Area for the Mesaverde Formation, effective January 1, 1958, and will be forwarded under separate cover.

Attached is Schedule V showing the Fourth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Fourth Expanded Participating Area will become effective as of January 1, 1958.

Copies of this letter and Schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



T. W. Bittick
Assistant Manager
Land Department

TWB:SHM:jb

cc: Attached list

File 542
El Paso Natural Gas Company

El Paso, Texas

January 22, 1958

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
TWENTY-FOURTH EXPANDED PARTICIPATING
AREA, Mesaverde Formation
Effective January 1, 1958

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #77 Well is located 1660' from the South line and 1750' from the West line of Section 2, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on September 17, 1957, and completed on November 11, 1957 at a total depth of 5645'. The Mesaverde Formation between 4892' - 4922', 4935' - 4950', 4964' - 4988', 5010' - 5026', 5408' - 5428', 5464' - 5478', 5510' - 5520' was treated with a sand-water fracturing process. After being shut-in for gauge for nine (9) days, the well was tested on December 5, 1957, and following a three (3) hour blow down period gauged 3087 MCFGPD through a 3/4" choke, and 4001 MCFGPD by the calculated absolute open flow method with an SIPT of 942#. The committed drilling block upon which this well is located is described as the W/2 of Section 2, Township 27 North, Range 6 West, N.M.P.M., and consists of 320.10 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Mesaverde Formation was made on December 5, 1957.

The completion of the San Juan 28-6 Unit #77 Well creates one (1) intervening drilling block. This intervening drilling block is described as the W/2 of Section 35, Township 28 North, Range 6 West, N.M.P.M., and consists of 323.48 acres.

Under the terms of the San Juan 28-6 Unit Agreement, the above described drilling block is admitted to the Mesaverde Participating Area as of January 1, 1958. A well must be commenced on this intervening drilling block by January 1, 1959.

The San Juan 28-6 Unit #77 Well is a dual completion well, having been completed in both the Mesaverde and Pictured Cliffs Formations. The expansion of the Pictured Cliffs Formation as a consequence of the completion of the said well being the Fourth Expanded Participating Area, effective January 1, 1958, is being submitted under separate cover.


Attached is Schedule XXV showing the Twenty-Fourth Expanded Participating Area for the Mesaverde Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Fourth Expanded Participating Area will become effective as of January 1, 1958.

Copies of this letter and Schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



T. W. Bittick
Assistant Manager
Land Department

TWB:SHM:cl

cc: Attached list

El Paso Natural Gas Company
El Paso, Texas
January 20, 1958

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
1958 Drilling Program

Gentlemen:

By letter dated December 31, 1956, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program regarding the captioned Unit for the calendar year 1957. Said Program and one (1) supplement thereto, provided for the drilling of six (6) Mesaverde wells and five (5) dual Mesaverde-Pictured Cliffs wells. All eleven (11) wells have been completed on lands committed to the Unit, and have been admitted or are in the process of being admitted to their respective Participating Areas.

As of this date, the total number of wells in the San Juan 28-6 Unit is as follows:

Dual, Mesaverde-Pictured Cliffs	5
Mesaverde	66
Mesaverde Non-Commercial	2

Pursuant to Section 10 of the San Juan 28-6 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is herewith submitting this Drilling Program providing for the drilling of the following described wells during the period from January 1, 1958 to December 31, 1958:

<u>Drilling Block</u>	<u>Formation</u>
E/2 Section 1, T-27-N, R-6-W	Dual, Pictured Cliffs-Mesaverde
W/2 Section 11, T-27-N, R-6-W	Dual, Pictured Cliffs-Mesaverde
E/2 Section 12, T-27-N, R-6-W	Dual, Pictured Cliffs-Mesaverde
W/2 Section 12, T-27-N, R-6-W	Dual, Pictured Cliffs-Mesaverde
E/2 Section 13, T-27-N, R-6-W	Dual, Pictured Cliffs-Mesaverde
SE/4 Section 14, T-27-N, R-6-W	Pictured Cliffs
SE/4 Section 15, T-27-N, R-6-W	Pictured Cliffs

<u>Drilling Block</u>	<u>Formation</u>
W/2 Section 20, T-28-N, R-6-W	Mesaverde
E/2 Section 24, T-27-N, R-6-W	Dual, Pictured Cliffs-Mesaverde
W/2 Section 35, T-28-N, R-6-W	Mesaverde

In addition to the above wells, El Paso Natural Gas Company, as Unit Operator, also plans to drill any off-set wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners in the affected drilling blocks.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Pictured Cliffs wells to the base of the Pictured Cliffs Formation using rotary and cable tools. Surface casing will be set to approximately 100' from the surface, and then a production string of 5 1/2" casing will be set through the Pictured Cliffs Formation. Mud will be used in drilling through the Pictured Cliffs Formation and cable tools will be used for completion work. The entire Pictured Cliffs Formation will be subjected to a hydraulic fracturing process. Due care will be taken to protect all horizons.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Mesaverde-Pictured Cliffs dual wells to the base of the Mesaverde Formation using rotary tools. Surface casing of 10 3/4" will be set to approximately 150' below the surface and an intermediate string of 7 5/8" will be set through the Pictured Cliffs Formation to a depth of approximately 3200'. A 5 1/2" production liner will be set from this point through the Mesaverde Formation. The Mesaverde Formation will then be selectively perforated and subjected to a hydraulic fracturing process, after which a bridging plug will be set above the Mesaverde Formation and the Pictured Cliffs Formation will be selectively perforated and subjected to a hydraulic fracturing process. For completion, a production packer will be set between the two formations using 2" tubing to produce the Mesaverde. A string of 1 1/4" tubing will be run, through which the Pictured Cliffs Formation will be produced. Mud will be used in setting the intermediate string of casing and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Mesaverde wells to the base of the Mesaverde Formation using rotary tools. Surface casing of 10 3/4" will be set to approximately 150' below the surface and an intermediate string of 7 5/8" will be set through the Pictured Cliffs Formation to a depth of approximately 3200'. A 5 1/2" production string will be set through the Mesaverde Formation, and the casing of the Mesaverde Formation will then be selectively perforated and the Mesaverde Formation will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.

All of the Working Interest Owners have been notified and this Drilling Program reflects, insofar as possible, their requests 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.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



Sam Smith
Manager
Land Department

SS:SHM:pc
cc: Attached List


APPROVED: _____ DATE: _____

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

APPROVED: _____ DATE: _____

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

APPROVED: _____ DATE: 4-14-58


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

The foregoing approvals are for the 1958 Drilling Program for the San Juan 28-6 Unit,
Rio Arriba County, New Mexico.

San Juan 28-6 Unit
Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. A. Brown
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
1211 Main Avenue
Durango, Colorado

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Sinclair Oil and Gas Company (5)
Denver Club Building
Denver 2, Colorado

Sinclair Oil & Gas Company
Sinclair Oil Building
Tulsa, Oklahoma

Skelly Oil Company
Post Office Box 1650
Tulsa 2, Oklahoma

Mr. Tom Bolack
1010 N. Dustin Street
Farmington, New Mexico

Mr. T. F. Harrington
615 Simms Building
Albuquerque, New Mexico

Mr. E. V. Hewitt (12)
Pan American Petroleum Corporation
Post Office Box 1410
Fort Worth, Texas

Pan American Petroleum Corporation
Post Office Box 1714
Albuquerque, New Mexico

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
Post Office Box 1419
Albuquerque, New Mexico

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
Post Office Box 192
Sistersville, West Virginia

Riasan Company
165 Simms Building
Albuquerque, New Mexico

Texas National Petroleum Company
902 South Coast Life Building
Houston 2, Texas

Mr. R. E. Beamon
346 Esperson Building
Houston 2, Texas

Mr. H. K. Riddle
65 East Fourth South
Salt Lake City, Utah

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

El Paso Natural Gas Company

11:29

El Paso, Texas

File 14
543

January 7, 1958

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
**APPROVAL OF INITIAL PARTICIPATING AREA
AND FIRST EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation**

Gentlemen:

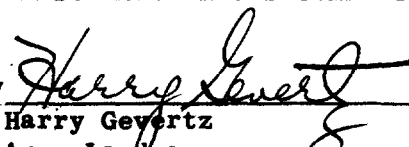
This is to advise that the Initial Participating Area, effective April 1, 1957, and the First Expanded Participating Area, effective April 1, 1957, were approved as follows:

1. Director, United States Geological Survey,
December 26, 1957.
2. Commissioner of Public Lands of the State
of New Mexico, September 25, 1957.
3. Oil Conservation Commission of the State of
New Mexico, October 29, 1957.

Copies of this letter are being sent to the Working Interest Owners shown on the attached list.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
Harry Gevertz
Area Landman
Land Department

El Paso Natural Gas Company

El Paso, Texas

December 16, 1957

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
TWENTY-THIRD EXPANDED PARTICIPATING
AREA, Mesaverde Formation
Effective December 1, 1957

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #66 Well is located 890' from the North line and 1650' from the East line of Section 11, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on October 22, 1957, and completed on November 9, 1957 at a total depth of 5812'. The Mesaverde Formation between 5076' - 5086', 5096' - 5108', 5596' - 5612', 5632' - 5642', 5652' - 5660', 5688' - 5702', 5724' - 5732' was treated with a sand-water fracturing process. After being shut-in for gauge for seven (7) days the well was tested on November 27, 1957, and following a three (3) hour blow down period gauged 3383 MCFGPD through a 3/4" choke, and 4344 MCFGPD by the calculated absolute open flow method with an SIPT of 1063#. The committed drilling block upon which this well is located is described as the E/2 of Section 11, Township 27 North, Range 6 West, N.M.P.M. and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on November 27, 1957.

The completion of the San Juan 28-6 Unit #66 Well creates one (1) intervening drilling block. This intervening drilling block is described as the W/2 of Section 11, Township 27 North, Range 6 West, N.M.P.M. and consists of 320.00 acres.

Under the terms of the San Juan 28-6 Unit Agreement, the above described drilling block is admitted to the Mesaverde Participating Area as of December 1, 1957. A well must be commenced on this intervening drilling block by December 1, 1958.

The San Juan 28-6 Unit #66 Well is a dual completion well, having been completed in both the Mesaverde and Pictured Cliffs Formations. The expansion of the Pictured Cliffs Formation as a consequence of the completion of the said well being the Third Expanded Participating Area, effective December 1, 1957, is being submitted under separate cover.

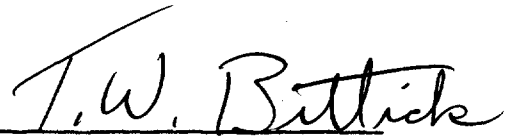
Attached is Schedule XXIV showing the Twenty-Third Expanded Participating Area for the Mesaverde Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Third Expanded Participating Area will become effective as of December 1, 1957.

Copies of this letter and Schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



T. W. Bittick
Assistant Manager
Land Department

TWB:SHM:pc

cc: Attached List

El Paso Natural Gas Company

El Paso, Texas

December 12, 1957

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
THIRD EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation
Effective December 1, 1957

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below, that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed on acreage committed to this Unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #66 Well is located 890' from the North line and 1650' from the East line of Section 11, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on October 22, 1957 and completed on November 9, 1957 at a total depth of 5812'. The Pictured Cliffs Formation between 3424' - 3440', 3460' - 3490' was treated with a sand-water fracturing process. After being shut-in for gauge for eleven (11) days, the well was tested on November 20, 1957, and following a three (3) hour blow-down period gauged 1355 MCFGPD through a 3/4" choke and 1368 MCFGPD by the calculated absolute open-flow method with an SIPC of 1106# and an SIPT of 1106#. The committed drilling block upon which this well is located is described as the E/2 of Section 11, Township

27 North, Range 6 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on November 20, 1957.

The San Juan 28-6 Unit #66 Well is a dual completion well, therefore the Mesaverde Participating Area will be expanded accordingly. Said well will be included in the Twenty-Third Expanded Participating Area for the Mesaverde Formation, effective December 1, 1957, and will be forwarded under separate cover.

Attached is Schedule IV showing the Third Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Third Expanded Participating Area will become effective as of December 1, 1957.

Copies of this letter and Schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By T. W. Bittick

T. W. Bittick
Assistant Manager
Land Department

TWB:SHM:cl

cc: Attached list

El Paso Natural Gas Company

El Paso, Texas

November 18, 1957

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
SECOND EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation
Effective October 1, 1957

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below, that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed on acreage committed to this Unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #68 Well is located 1814' from the South line and 790' from the West line of Section 13, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on August 14, 1957 and completed on September 7, 1957, at a total depth of 5484'. The Pictured Cliffs Formation between 3060' - 3070', 3080' - 3116' was treated with a sand-water fracturing process. After being shut-in for gauge for ten (10) days, the well was tested on September 17, 1957, and following a three (3) hour blow-down period gauged 1738 MCFGPD through a 3/4" choke and 1767 MCFGPD by the calculated absolute open flow method with an SIPC of 1091# and an SIPT of 1091#. The committed drilling block upon which this well is located is described as the W/2 of Section 13, Township 27 North, Range 6 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on September 17, 1957.

1957 NOV 18 PM 1:22

MAIL OFFICE 000

[Handwritten signature]
[Handwritten initials]
543

The San Juan 28-6 Unit #68 Well is a dual completion well, therefore the Mesaverde Participating Area will be expanded accordingly. Said well will be included in the Twenty-Second Expanded Participating Area for the Mesaverde Formation, effective November 1, 1957, and will be forwarded under separate cover.

Attached is Schedule III showing the Second Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Second Expanded Participating Area will become effective as of October 1, 1957.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By T. W. Bittick
T. W. Bittick
Assistant Manager
Land Department

TWB:SHM:pc

cc: Attached List

San Juan 28-6 Unit
Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. A. Brown
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
1211 Main Avenue
Durango, Colorado

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Sinclair Oil & Gas Company (3) & (2) extra
Denver Club Building
Denver 2, Colorado

Sinclair Oil & Gas Company
Sinclair Oil Building
Tulsa, Oklahoma

Skelly Oil Company
Post Office Box 1650
Tulsa 2, Oklahoma

Mr. Tom Bolack
1010 N. Dustin Street
Farmington, New Mexico

Mr. T. F. Harrington
615 Simms Building
Albuquerque, New Mexico

Mr. E. V. Hewitt (12)
Pan American Petroleum Corporation
Post Office Box 1410
Fort Worth, Texas

Pan American Petroleum Corporation
Post Office Box 1714
Albuquerque, New Mexico

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
Post Office Box 1419
Albuquerque, New Mexico

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
Post Office Box 192
Sistersville, West Virginia

Riasan Company
165 Simms Building
Albuquerque, New Mexico

Texas National Petroleum Company
902 South Coast Life Building
Houston 2, Texas

Mr. R. E. Beamon
346 Esperson Building
Houston 2, Texas

Mr. H. K. Riddle
65 East Fourth South
Salt Lake City, Utah

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

SCHEDULE III
SECOND EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 28-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK AND	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>Tract 14</u>							
SF 079363	T 27-N, R-6-W Sec. 13: NW/4	160.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 80.00% 7.50%	12.50% 80.00% 7.50%		<u>16.66667%</u>
	TOTAL			100.00%	100.00%		
<u>Tract 15</u>							
SF 079365	T-27-N, R-6-W Sec. 13: N/2 SW/4, SW/4 SW/4	120.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 77.00% 10.50%	12.50% 77.00% 10.50%		<u>12.50000%</u>
	TOTAL			100.00%	100.00%		
<u>Tract 46</u>							
Fee	T-27-N, R-6-W Sec. 13: SE/4 SW/4	40.00	Royalty; Working Interest; T. F. Harrington; ORRI;	12.50% 87.50% .00%	12.50% 87.50% .00%		<u>4.16667%</u>
	TOTAL			100.00%	100.00%		
San Juan 28-6 #68 Well	Sec. 13: W/2	320.00				100.00%	<u>33.33334%</u>

Effective October 1, 1957

SCHEDULE III
SECOND EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 28-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK AND	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>Tract 15</u>						
SF 079365	T-27-N, R-6 W Sec. 24: W/2	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 80.00% 7.50%	12.50% 80.00% 7.50%	<u>33.33333%</u>
	TOTAL			100.00%	100.00%	
<u>Tract 16</u>						
SF 079367-B	T-27-N, R-6-W Sec. 25: W/2	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 77.00% 10.50%	12.50% 77.00% 10.50%	<u>33.33333%</u>
	TOTAL			100.00%	100.00%	
<u>Tract 17</u>						
San Juan 28-6 #69 Well	Sec. 24: W/2	320.00			100.00%	<u>33.33333%</u>
<u>Tract 18</u>						
San Juan 28-6 #70 Well	Sec. 25: W/2	320.00			100.00%	<u>33.33333%</u>

Effective October 1, 1957

SCHEDULE III
 SECOND EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
 SAN JUAN 28-6 UNIT AREA

RECAPITULATION

Description of Lands in Participating Area:	
<u>Township 27 North, Range 6 West, N.M.P.M.</u>	
Section 13: W/2	
Section 24: W/2	
Section 25: W/2	
Total Number of Acres in Participating Area:	960.00
Total Number of Acres Committed to Participating Area:	960.00
Total Number of Acres Not Committed to Participating Area:	.00
Percent of Basic Royalty Committed:	100.00%
Percent of Working Interest Committed:	100.00%
Percent of O.R.R.I. Committed:	100.00%

RECEIVED
NOV 14 1957
El Paso Natural Gas Company

El Paso, Texas

November 12, 1957

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF DISCOVERY AND REQUEST FOR
APPROVAL OF INITIAL PARTICIPATING
AREA AND FIRST EXPANDED PARTICIPA-
TING AREA, Pictured Cliffs Formation

Gentlemen:

We submit herewith for your approval and execution eight (8) additional copies of the captioned Request for Approval of the Initial and First Expanded Participating Areas for the San Juan 28-6 Unit.

Also enclosed please find one (1) copy of the captioned Request for Approval of Participating Areas which the Oil Conservation Commission, by Mr. A. L. Porter, Jr., previously approved on October 29, 1957.

Thanking you in advance for your cooperation, we are,

Yours very truly,



Harry Gevertz
Area Landman
Land Department

HG:SHM:pc
Enclosures
San Juan 28-6 Unit

El Paso Natural Gas Company

El Paso, Texas

December 1, 1957

Mr. John A. Anderson
Regional Oil & Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
TWENTY-SECOND EXPANDED PARTICIPATING
AREA, Mesaverde Formation
Effective November 1, 1957

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #68 Well is located 1814' from the South line and 790' from the West line of Section 13, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on August 14, 1957, and completed on September 7, 1957 at a total depth of 5484'. The Mesaverde Formation between 4688' - 4696', 4744' - 4764', 4800' - 4814', 4886' - 4906', 5172' - 5190', 5238' - 5258', 5272' - 5284', 5296' - 5320', 5336' - 5354' was treated with a sand-water fracturing process. After being shut-in for gauge for thirty-two (32) days the well was tested on October 9, 1957, and following a three (3) hour blow down period gauged 4336 MCFGPD through a 3/4" choke, and 6378 MCFGPD by the calculated absolute open flow method with an SIPT of 1104#. The committed drilling block upon which this well is located is described as the W/2 of Section 13, Township 27 North, Range 6 West, N.M.P.M. and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities was made on October 9, 1957.

The inclusion of the above described well into the participating area of the San Juan 28-6 Unit creates no intervening drilling blocks.

The San Juan 28-6 Unit #68 Well is a dual completion well, having been completed in both the Mesaverde and Pictured Cliffs Formations. The expansion of the Pictured Cliffs Formation as a consequence of the completion of the said well being the Second Expanded Participating Area, effective October 1, 1957, is being submitted under separate cover.

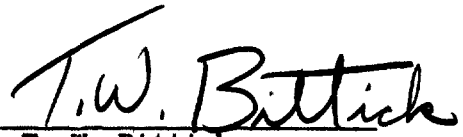
Attached is Schedule XXIII showing the Twenty-Second Expanded Participating Area for the Mesaverde Formation of the San Juan 28-6 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-Second Expanded Participating Area will become effective as of November 1, 1957.

Copies of this letter and Schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



T. W. Bittick
Assistant Manager
Land Department

TWB:SHM:pc

cc: Attached List

2
MAIN OFFICE OCC

1957 SEP 25 AM 7:58

September 25, 1957

In reply refer to:
Unit Division

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

Return to
[Signature]
Re: San Juan 28-6 Unit -
Initial and First Expanded
Participating Areas:
Pictured Cliffs Formation

Attention: Mr. T. W. Bittick

Gentlemen:

We are enclosing four copies of the above
designated participating areas. This was approved
by the Commissioner of Public Lands September 25, 1957.

Very truly yours,

MURRAY E. MORGAN
Commissioner of Public Lands

By: Ted Bilberry, Supervisor
Oil and Gas Department

MEM:MMR/m
Enc.

cc: OCC-Santa Fe
USGS-Roswell

MAIN OFFICE *El Paso Natural Gas Company*

1957 SEP 4 PM 1:00

El Paso, Texas

August 28, 1957

Mr. John A. Anderson
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file 543

Re: San Juan 28-6 Unit Area
#14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF APPROVAL OF 1957
DRILLING PROGRAM

Gentlemen:

Please be advised that the Supplemental 1957 Drilling Program for the San Juan 28-6 Unit #14-08-001-1051 has been approved by the Federal and State Regulatory Bodies as follows:

1. The Commissioner of Public Lands of the State of New Mexico on July 22, 1957.
2. The United States Geological Survey on July 17, 1957.
3. The Oil Conservation Commission of the State of New Mexico on August 26, 1957.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By *Harry Gevertz*
Harry Gevertz
Area Landman
Land Department

HG:HM:cl
cc: Attached list

El Paso Natural Gas Company

El Paso, Texas

August 8, 1957

1957 SEP 17 11 11 AM

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

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF DISCOVERY AND REQUEST FOR
APPROVAL OF INITIAL PARTICIPATING AREA,
AND FIRST EXPANDED PARTICIPATING AREA
Pictured Cliffs Formation

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined subject to the approval of the Director, the Commissioner and the Commission, that the San Juan 28-6 Unit Well #69, completed in the Pictured Cliffs Formation, is capable of producing unitized substances in paying quantities, that the Initial Participating Area for the Pictured Cliffs Formation should be established, and that the following selection of lands are reasonably estimated to be productive in paying quantities from the Pictured Cliffs Formation:

Township 27 North, Range 6 West, N.M.P.M.
Section 24: W/2
Containing 320.00 acres, more or less
Rio Arriba County, New Mexico

The lands described above are proved productive by the following:

The San Juan 28-6 Unit #69 Well is located 990' from the South line and 810' from the West line of Section 24, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. The well was spudded

on January 16, 1957, and completed on February 5, 1957, at a total depth of 5677'. The Pictured Cliffs Formation was treated with a water and sand fracturing process between the following depths: 3283' - 3294', 3304' - 3312', 3318' - 3326'. After being shut in for gauge for thirty one (31) days the well was tested on March 8, 1957, and following a three (3) hour blow down period gauged 2277 MCFGPD by the 3/4" choke volume method, and 2329 MCFGPD by the calculated absolute open flow method, with an SIPC of 1036# and an SIPT of 1036#. The committed drilling block on which this well is located is described as the W/2 of Section 24, Township 27 North, Range 6 West, N.M.P.M., and consists of 320.00 acres.

The effective date for the Initial Participating Area for the Pictured Cliffs Formation for the San Juan 28-6 Unit is determined to be March 8, 1957, the date on which the above well was tested.

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, El Paso Natural Gas Company as Unit Operator also submits for your approval the First Expanded Participating Area for the Pictured Cliffs Formation for the San Juan 28-6 Unit, which includes in addition to the lands submitted for the Initial Participating Area, above described, the following lands reasonably estimated to be productive in paying quantities:

Township 27 North, Range 6 West, N.M.P.M.
Section 25: W/2
Containing 320.00 acres, more or less,
Rio Arriba County, New Mexico

The lands described above are proved productive by the following:

The San Juan 28-6 Unit #70 Well is located 993' from the South line and 990' from the West line of Section 25, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. The well was spudded on February 7, 1957, and completed on March 3, 1957, at a total depth of 5570'. The Pictured Cliffs Formation was treated with a water and sand fracturing process between the depths of 3212' - 3224', 3238' - 3256'. After being shut in for gauge for twelve (12) days the well was tested on March 15, 1957, and following a three (3) hour blow down period gauged 4695 MCFGPD by the 3/4" choke volume method and 5218 MCFGPD by the calculated absolute open flow method with an SIPC of 1000# and an SIPT of 1000#. The committed drilling block on which this well is located is described as the W/2 of Section 25, Township 27 North, Range 6 West, N.M.P.M., and consists of 320.00 acres.

The effective date for the First Expansion of the Participating Area for the Pictured Cliffs Formation in this Unit is April 1, 1957, the first day of the month following the testing of the San Juan 28-6 Unit #70 Well.

Both the San Juan 28-6 Unit #69 Well and the San Juan 28-6 Unit #70 Well were dually completed in both the Pictured Cliffs and the Mesaverde Formations. This letter,

and the accompanying Schedules, are for the Pictured Cliffs Formation only, however an expansion of the Mesaverde Formation for this Unit involving the said wells is being submitted under separate cover.

Attached hereto as Exhibit "A" are maps of the San Juan 28-6 Unit Area on which have been colored the Initial and First Expanded Participating Areas for the Pictured Cliffs Formation.

Attached also are Schedules I and II showing the Initial and First Expanded Participating Areas respectively, for the Pictured Cliffs Formation in the San Juan 28-6 Unit Area. These Schedules describe the Initial Participating Area and the First Expanded Participating Area, showing the percentages of unitized substances allocated to each unitized tract, and the exact breakdown of such percentages according to the various ownerships in each tract.

If this Initial Participating Area and the First Expanded Participating Area meet with your approval, please indicate such approval in the space provided on the attached sheet and return the approved copy for our files.

A copy of this letter and of each Schedule are being sent to the Working Interest Owners set forth on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By: T. W. Bittick
T. W. Bittick
Assistant Manager
Land Department

TWB:GBL:cl

APPROVED: _____ DATE: _____
Director, United States Geological Survey

Subject to like approval by the appropriate State Officials.

APPROVED: _____ DATE: _____
Commissioner of Public Lands

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED: _____ DATE: _____
Oil Conservation Commission

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

The foregoing approvals are for the Initial and First Expanded Participating
Areas, Pictured Cliffs Formation, San Juan 28-6 Unit.

San Juan 28-6 Unit
Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. A. Brown
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
301 Korber Building
Albuquerque, New Mexico

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Sinclair Oil and Gas Company (3) & (2) extra
Denver Club Building
Denver 2, Colorado

Sinclair Oil & Gas Company
Sinclair Oil Building
Tulsa, Oklahoma

Skelly Oil Company
Post Office Box 1650
Tulsa 2, Oklahoma

Mr. Tom Bolack
1010 N. Dustin Street
Farmington, New Mexico

Mr. T. F. Harrington
615 Simms Building
Albuquerque, New Mexico

Mr. C. F. Bedford (12)
Pan American Petroleum Company
Post Office Box 1410
Fort Worth, Texas

Pan American Petroleum Company
Post Office Box 1714
Albuquerque, New Mexico

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
Post Office Box 1419
Albuquerque, New Mexico

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
Post Office Box 192
Sistersville, West Virginia

Riasan Company
165 Simms Building
Albuquerque, New Mexico

Texas National Petroleum Company
902 South Coast Life Building
Houston 2, Texas

Mr. R. E. Beamon
346 Esperson Building
Houston 2, Texas

Mr. H. K. Riddle
65 East Fourth South
Salt Lake City, Utah

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

SCHEDULE I
 INITIAL EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
 SAN JUAN 28-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK AND		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
					PERCENTAGE		
SF 079365	<u>T-27-N, R-6-W</u>	320.00					
	<u>Sec. 24: W/2</u>						
			<u>Tract 15</u>				
	Royalty;			12.50%	12.50%		<u>100.000000%</u>
	Working Interest:						
	El Paso Natural Gas Co.;			80.00%	80.00%		
	ORRI;			<u>7.50%</u>	<u>7.50%</u>		
	TOTAL			<u>100.00%</u>	<u>100.00%</u>		
San Juan 28-6 Unit Well #69	Sec. 24: W/2	<u>320.00</u>				<u>100.00%</u>	<u>100.000000%</u>

RECAPITULATION

Description of Lands in Participating Area
 Township 27 North, Range 6 West, N.M.P.M.
 Section 24: W/2

Total Number of Acres in Participating Area:	320.00
Total Number of Acres Committed to Participating Area:	320.00
Total Number of Acres Not Committed to Participating Area:	.00
Percent of Basic Royalty Committed:	100.00%
Percent of Working Interest Committed:	100.00%
Percent of O.R.R.I. Committed:	100.00%

SCHEDULE II
FIRST EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 28-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK AND	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION		
SF 079365	T-27-N, R-6-W	320.00	Royalty;	Tract 15	12.50%	12.50%	50.000000%		
	Sec. 24: W/2		Working Interest;						
			El Paso Natural Gas Co.;		80.00%	80.00%			
			ORRI;		7.50%	7.50%			
			TOTAL		100.00%	100.00%			
	Tract 16								
	T-27-N, R-6-W		320.00		Royalty;	12.50%		12.50%	50.000000%
	Sec. 25: W/2				Working Interest;				
					El Paso Natural Gas Co.;	77.00%		77.00%	
					ORRI;	10.50%		10.50%	
	TOTAL	100.00%		100.00%					
San Juan 28-6 Unit Well #69									
	Sec. 24: W/2	320.00			100.00%	50.000000%			
San Juan 28-6 Unit Well #70									
	Sec. 25: W/2	320.00			100.00%	50.000000%			

SCHEDULE 11
FIRST EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 28-6 UNIT AREA

RECAPITULATION

Description of Lands in Participating Area
Township 27 North, Range 6 West, N.M.P.M.
Section 24: W/2
Section 25: W/2

Total Number of Acres in Participating Area:	640.00
Total Number of Acres Committed to Participating Area:	640.00
Total Number of Acres Not Committed to Participating Area:	.00

Percent of Basic Royalty Committed:	100.00%
Percent of Working Interest Committed:	100.00%
Percent of O.R.R.I. Committed:	100.00%

El Paso Natural Gas Company

El Paso, Texas

MAIN OFFICE 600
EST AUG 1914 PM 1:30

July 30, 1957

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
P. O. Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

File 51

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
TWENTY FIRST EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective April 1, 1957

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates indicated below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation have been completed upon acreage committed to this unit. The participating area for the Mesaverde formation is expanded accordingly to include these wells as follows:

1. The San Juan 28-6 Unit #51 Well located 1735' from the South line and 1745' from the West line of Section 29, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on November 29, 1956, and completed on March 11, 1957, at a total depth of 5639'. The Mesaverde formation was treated with a water fracturing process between the following depths:

4906' - 4910', 4914' - 4922', 4926' - 4936',
4948' - 4954', 4964' - 4968', 4982' - 4986',
5034' - 5038', 5180' - 5184', 5204' - 5208',
5240' - 5244', 5368' - 5372', 5438' - 5452',
5460' - 5466', 5490' - 5498', 5506' - 5510',
5516' - 5520', 5528' - 5532', 5552' - 5560'.



After being shut-in for seven (7) days the well was tested on March 29, 1957, and following a three (3) hour blow down period gauged 2110 MCFGPD through a 3/4" choke and 2552 MCFGPD by the calculated absolute open flow method with an SIPT of 1099# and an SIPT of 1087#. The committed drilling block upon which this well is located is described as the W/2 of Section 29, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres. As this drilling block was brought into the San Juan 28-6 Unit participating area for the Mesaverde Formation by the Sixteenth Expansion, effective February 1, 1956, it is not included herein.

The completion of the above described well, however, creates an intervening drilling block described as the W/2 of Section 20, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres. This intervening drilling block will be admitted to the participating area effective April 1, 1957, which is the first day of the month next following the testing of the San Juan 28-6 Unit Well #51.

2. The San Juan 28-6 Unit #69 Well, located 990' from the South line and 810' from the West line of Section 24, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on January 16, 1957, and completed on February 5, 1957, at a total depth of 5677'. The Mesaverde Formation was treated with a water and sand fracturing process between the following depths:

5000' - 5020', 5028' - 5040', 5050' - 5062',
5070' - 5090', and 5410' - 5420', 5456' -
5472', 5478' - 5488', 5514' - 5524', 5530' -
5540', 5556' - 5566'.

After being shut-in for eleven (11) days the well was tested on March 26, 1957, and following a three (3) hour blow down period gauged 6029 MCFGPD through a 3/4" choke, and 20,830 MCFGPD by the calculated absolute open flow method, with an SIPT of 1081#. The committed drilling block upon which this well is located is described as the W/2 of Section 24, Township 27 North, Range 6 West, N.M.P.M., containing 320.00 acres, and will be admitted to the participating area for the Mesaverde Formation of the San Juan 28-6 Unit, on April 1st, 1957, the first of the month next succeeding the testing of the San Juan 28-6 #69 Well.

3. The San Juan 28-6 Unit #70 Well, located 993' from the South line and 990' from the West line of Section 25, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on February 7, 1957, and completed on March 3, 1957, at a total depth of 5570'. The Mesaverde Formation was treated with a water and sand fracturing process be-

4908' - 4930', 4938' - 4952', 4960' - 4975',
4997' - 5008', and 5354' - 5364', 5376' -
5392', 5406' - 5417', 5493' - 5506'.

After being shut-in for twenty three (23) days the well was tested on March 26, 1957, and following a three (3) hour blow down period gauged 4519 MCFGPD through a 3/4" choke and 7307 MCFGPD by the calculated absolute open flow method, with an SIPT of 1072#. The committed drilling block upon which this well is located is described as the W/2 of Section 25, Township 27 North, Range 6 West, N.M.P.M., containing 320.00 acres, and will be admitted to the participating area for the Mesaverde Formation of the San Juan 28-6 Unit on April 1st, 1957, the first of the month next succeeding the testing of the San Juan 28-6 #70 Well.

The San Juan 28-6 Unit Wells #69 and #70, above described, are dual completion wells, having been completed in both the Mesaverde and Pictured Cliffs Formations. This letter, and the accompanying Schedule, refer to the Mesaverde Formation. Expansions of the Pictured Cliffs Formation as a consequence of the completion of the said wells, being the Initial and First Expanded Participating Areas, effective March 8, 1957, and April 1, 1957, respectively, are being submitted under separate cover.

Attached is Schedule XXII, showing the Twenty First Expanded Participating Area for the Mesaverde Formation for the San Juan 28-6 Unit Area. This describes the expanded participating area and shows the percentages of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this expanded participating area will become effective, as above provided, on April 1, 1957.

Copies of this letter and Schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY


Samuel Smith
Manager
Land Department

SS:GBL:cl

cc: Attached List

July 22, 1957

In reply refer to:
Unit Division

File 543

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

Re: San Juan 28-6 Unit
Supplemental Drilling
Program for 1957

Attention: Mr. Samuel Smith
Assistant Manager, Lease Department

Gentlemen:

We are enclosing two copies of your Supplemental Drilling Program for 1957 on your San Juan 28-6 Unit, which was approved by the Commissioner of Public Lands July 22, 1957.

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

We wish to thank you for your consideration in this matter.

Very truly yours,

MURRAY C. MORGAN
Commissioner of Public Lands

By: Ted Bilberry, Supervisor
Oil and Gas Department

MEM:MMR/m
enc: 2

cc: OCC-Santa Fe
USGS-Roswell



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 6721
Roswell, New Mexico

July 17, 1957

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

Attention: Mr. Samuel Smith

Gentlemen:

Your supplemental plan of development dated July 12, 1957, for the San Juan 28-6 Unit Area, New Mexico, for the calendar year 1957, has been approved on this date subject to like approval by the appropriate State of New Mexico officials.

One approved copy of the plan is enclosed.

Very truly yours,

Robert F. Evans
ROBERT F. EVANS
Acting Oil and Gas Supervisor

Enclosure

Copy to: Washington (w/copy of plan)
Farmington (w/copy of plan)
Com. of Public Lands, Santa Fe (letter only)
Oil Cons. Com., Santa Fe (letter only)

El Paso Natural Gas Company

El Paso, Texas

July 16, 1957

Mr. John A. Anderson
Regional Oil & Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file 543
Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELLS

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, No. 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below, that three (3) additional wells capable of producing unitized substances in paying quantities, from the Mesaverde formation, have been completed upon acreage committed to this unit:

1. The San Juan 28-6 Unit #72 Well, located 990' from the North line and 1650' from the East line of Section 19, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on January 20, 1957, and completed on March 1, 1957, at a total depth of 5798'. The Mesaverde formation was treated with a water fracturing process between the following depths:

5048' - 5088', 5092' - 5094', 5110' - 5114', 5118' - 5124', 5128' - 5130', 5146' - 5150', 5152' - 5154', 5159' - 5161', 5168' - 5170', 5178' - 5202', 5210' - 5214', 5218' - 5222', 5242' - 5246', 5332' - 5336', 5352' - 5358', 5362' - 5368', 5416' - 5420', 5532' - 5540', 5574' - 5580', 5604' - 5624', 5628' - 5642',

5646' - 5650', 5652' - 5658', 5664' - 5672', 5674' - 5682', 5684' - 5702', 5710' - 5720', 5730' - 5734', 5738' - 5742', 5752' - 5756'.

After being shut-in for nine (9) days the well was tested on March 12, 1957, and following a three-hour blow down period, gauged 5102 MCFGPD through a 3/4" choke and 9745 MCFGPD by the calculated absolute open flow method with an SIPC of 1100# and an SIPT of 1091#. The committed drilling block upon which this well is located is described as the E/2 of Section 19, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres. As the drilling block upon which the San Juan 28-6 Unit #72 Well is located was included in the Sixteenth Expanded Participating Area for the Mesaverde formation effective February 1, 1956, as an intervening drilling block, the participating area is not now enlarged by the addition of this well, and the percentages allocated to the tracts shown on Schedule XVII for the Sixteenth Expanded Participating Area remain the same.

2. The San Juan 28-6 Unit #74 Well located 990' from the North line and 890' from the East line of Section 3, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on December 24, 1956, and completed on February 27, 1957, at a total depth of 5440'. The Mesaverde formation was treated with a water fracturing process between the following depths:

4732' - 4736', 4738' - 4746', 4754' - 4758', 4762' - 4770', 4776' - 4784', 4786' - 4790', 4800' - 4804', 4812' - 4816', 4822' - 4832', 4834' - 4846', 4864' - 4872', 4922' - 4926', 5038' - 5044', 5066' - 5070', 5086' - 5090', 5166' - 5174', 5256' - 5270', 5276' - 5284', 5298' - 5308', 5308' - 5312', 5316' - 5340', 5347' - 5351', 5357' - 5368', 5385' - 5389'.

After being shut-in for seven (7) days the well was tested on March 5, 1957, and following a three-hour blow down period, gauged 2723 MCFGPD through a 3/4" choke and 3848 MCFGPD by the calculated absolute open flow method, with an SIPC of 1115# and an SIPT of 1111#. The committed drilling block upon which this well is located is described as the E/2 of Section 3, Township 27 North, Range 6 West, N.M.P.M., containing 320.28 acres. As the drilling block upon which the San Juan 28-6 Unit #74 Well is located was included in the Fifteenth Expanded Participating Area for the Mesaverde formation, effective January 1, 1956, as an intervening drilling block, the participating area is not now enlarged by the

addition of this well, and the percentages allocated to the tracts shown on Schedule XVI for the Fifteenth Expanded Participating Area remain the same.


3. The San Juan 28-6 Unit #75 Well located 750' from the South line and 1850' from the West line of Section 3, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on December 18, 1956, and completed on February 8, 1957, at a total depth of 5403'. The Mesaverde formation was treated with a water fracturing process between the following depths:

4620' - 4626', 4632' - 4656', 4664' - 4668', 4670' - 4674',
4678' - 4682', 4686' - 4700', 4704' - 4708', 4712' -
4716', 4718' - 4724', 4726' - 4730', 4734' - 4750',
4866' - 4870', 4980' - 4984', 5008' - 5012', 5104' -
5108', 5186' - 5226', 5232' - 5242', 5250' - 5258',
5262' - 5270', 5276' - 5286', 5288' - 5292', 5304' -
5308', 5374' - 5378'.

After being shut-in for seven (7) days the well was tested on March 5, 1957, and following a three-hour blow down period, gauged 3688 MCFGPD with 3/4" choke and 4621 MCFGPD by the calculated absolute open flow method with an SIPC of 1106# and an SIPT of 1092#. The committed drilling block upon which this well is located is described as the W/2 of Section 3, Township 27 North, Range 6 West, N.M.P.M., containing 320.84 acres. As the drilling block upon which the San Juan 28-6 Unit #75 Well is located was included in the Fifteenth Expanded Participating Area for the Mesaverde formation, effective January 1, 1956, as an intervening drilling block, the participating area is not now enlarged by the addition of this well and the percentages allocated to the tracts shown on Schedule XVI for the Fifteenth Expanded Participating Area remain the same.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,


Joe W. Cherry
Area Landman
Lease Department

JWC:GBL:cr

cc: Attached List

El Paso Natural Gas Company

El Paso, Texas

July 12, 1957

Mr. John A. Anderson
Regional Oil & Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
SUPPLEMENTAL DRILLING PROGRAM FOR 1957

Gentlemen:

By letter of December 31, 1956, El Paso Natural Gas Company, as Unit Operator, filed its 1957 Drilling Program for the above captioned unit providing for the drilling of ten (10) wells between the dates of January 1, 1957 and December 31, 1957. Five (5) of the wells were to be drilled in the Mesaverde formation and five (5) were to be dually completed in the Mesaverde and Pictured Cliffs formations.

The 1957 Drilling Program was approved by the United States Geological Survey on January 28, 1957, the Commissioner of Public Lands of the State of New Mexico on February 13, 1957, and the Oil Conservation Commission of the State of New Mexico on February 11, 1957.

El Paso Natural Gas Company, Unit Operator, is now desirous of drilling one additional well to test the Mesaverde formation, to be located as hereinafter set forth. Therefore, pursuant to Section 10 of the above numbered Unit Agreement, herewith submitted is a Proposed Supplemental Drilling Program for the balance of the calendar year of 1957, providing for the drilling of the following well:

DRILLING BLOCK

W/2 Sec. 2: T-27-N, R-6-W

FORMATION

Mesaverde

The above well will be drilled to test the Mesaverde formation. However, in the event production of unitized substances in commercial quantities appears likely from the Pictured Cliffs formation the well may be dually completed in both the Mesaverde and Pictured Cliffs formations.

El Paso Natural Gas Company, as Unit Operator, intends to drill the above well employing the same drilling and completion methods as specified in the Drilling Program for the San Juan 28-6 Unit for 1957, dated December 31, 1956.


El Paso Natural Gas Company, as Unit Operator, will protect the unit from drainage, and will comply with any drilling requirements created under the terms of the Unit Agreement calling for additional drilling.

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

Copies of this Supplemental Drilling Program are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
Samuel Smith
Ass't. Manager
Lease Department

SS:GBL:cr

APPROVED: _____ DATE: _____
SUPERVISOR, UNITED STATES GEOLOGICAL SURVEY

Subject to like approval by the appropriate State Officials.

APPROVED: _____ DATE: _____
COMMISSIONER OF PUBLIC LANDS

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

APPROVED:  DATE: _____
OIL CONSERVATION COMMISSION

AUG 27 1957

Subject to like approval by the United States Geological Survey and Commissioner of Public Lands.

THE FOREGOING APPROVALS ARE FOR THE SUPPLEMENTAL 1957 DRILLING PROGRAM FOR THE SAN JUAN 28-6 UNIT, NEW MEXICO.

San Juan 28-6 Unit
Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. A. Brown
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
301 Korber Building
Albuquerque, New Mexico

Mr. R. N. Richey (2)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Sinclair Oil and Gas Company (3) & (2) extra
Denver Club Building
Denver 2, Colorado

Sinclair Oil & Gas Company
Sinclair Oil Building
Tulsa, Oklahoma

Skelly Oil Company
Post Office Box 1650
Tulsa 2, Oklahoma

Mr. Tom Bolack
1010 N. Dustin St.
Farmington, New Mexico

Mr. T. F. Harrington
615 Simms Building
Albuquerque, New Mexico

Mr. C. F. Bedford (12)
Pan American Petroleum Company
Post Office Box 1410
Fort Worth, Texas

Pan American Petroleum Company
Post Office Box 1714
Albuquerque, New Mexico

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
Post Office Box 1419
Albuquerque, New Mexico

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
Post Office Box 192
Sistersville, West Virginia

Riasan Company
165 Simms Building
Albuquerque, New Mexico

Texas National Petroleum Company
902 South Coast Life Building
Houston 2, Texas

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

Mr. R. E. Beamon
346 Esperson Building
Houston 2, Texas

Mr. H. K. Riddle
65 E. Fourth South
Salt Lake City, Utah

El Paso Natural Gas Company

El Paso, Texas

May 13, 1957

Mr. John Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
P. O. Box 6721
Roswell, New Mexico

Commissioner of Public Lands
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
Of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

File 54

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
TWENTIETH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective February 1, 1957

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date indicated below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde formation has been completed upon acreage committed to this unit. The participating area for the Mesaverde formation is expanded accordingly to include this well as follows:

The San Juan 28-6 Unit #67 Well, located 790' from the North line and 865' from the East line of Section 14, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on December 20, 1956, and completed on January 12, 1957, at a total depth of 5423'. The Mesaverde formation was treated with a water and sand fracturing process between the following depths:

4674' - 4688', 4727' - 4738', 4749' - 4760',
4773' - 4790', 4801' - 4818', 5216' - 5230',
5279' - 5299', 5314' - 5326', 5366' - 5377'.

After being shut-in for thirteen (13) days the well was tested on January 25, 1957, and following a three (3) hour blow down period gauged 1922 MCFGPD through a 3/4" choke and 1954 MCFGPD by the calculated absolute open flow method with an SIPC of 1060# and an SIPT of 1047#.

The committed drilling block upon which this well is located is described as the E/2 of Section 14, Township 27 North, Range 6 West, N.M.P.M., containing 320 acres.

The inclusion into the participating area of the Mesaverde formation of the above captioned well creates no intervening drilling blocks.

Attached is Schedule Twenty-One showing the Twentieth Expanded Participating Area for the Mesaverde formation for the San Juan 28-6 Unit Area. This describes the expanded participating area and shows the percentages of unitized substances allocated to each tract. Inasmuch as this needs no official approval no provision is made therefor, and in the absence of disapproval this expanded participating area will become effective as of February 1, 1957.

Copies of this letter and Schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By


Samuel Smith

Ass't. Manager

Lease Department

SS:GBL:nn
Enclosures

543
El Paso Natural Gas Company

El Paso, Texas

February 21, 1957

Mr. John A. Anderson
Regional Oil and Gas Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
Nineteenth Expanded Participating
Area - Mesaverde Formation
Effective December 1, 1956,
CORRECTIONS TO SCHEDULE

Gentlemen:

Please make the following changes in Schedule XX to the above captioned Expansion:

1. On Pages 5, 9, 26, 27 and 30, Tract 25, show the lease as "SF-080430-B" instead of "SF-080430".
2. On Page 7, Tract 5, change the lease number from "SF-079505" to "SF-079050".
3. On Page 8, under Tract 8, change lease number from "SF-079050" to "SF-079050-C".
4. On Page 21, under Tract 6, change lease number from "SF-079505-A" to "SF-079050-A".
5. On Page 35, under Tract 43, change "Stanolind Oil & Gas Company" to "Pacific Northwest Pipeline Corporation", as working interest owner.

All working interest owners are being advised of these changes.

Very truly yours,

Joe W. Cherry
Joe W. Cherry

543
El Paso Natural Gas Company

El Paso, Texas

February 21, 1957

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
#14-08-001-1051
DRILLING PROGRAM FOR 1957

Gentlemen:

This is to advise that the Drilling Program for 1957 for the San Juan 28-6 Unit has been approved by the Federal and State Regulatory bodies as follows:

- (1) Approved by the United States Geological Survey on January 28, 1957.
- (2) Approved by the Oil Conservation Commission of the State of New Mexico on February 11, 1957.
- (3) Approved by the Commissioner of Public Lands of the State of New Mexico on February 13, 1957.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By


Joe W. Cherry

Area Landman

Lease Department

JWC:GBL:nn

cc: Attached list

100-100000
100-100000

February 13, 1957

In reply refer to:
Unit Division

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

Re: San Juan 28-6 Unit
Drilling Program for 1957,
Rio Arriba County, New Mexico

Attention: Mr. Joe W. Cherry
Area Landman, Lease Department

Gentlemen:

We are enclosing one copy of the 1957 Drilling Program for the San Juan 28-6 Unit. This drilling program is approved by the Commissioner of Public Lands subject to your agreement set forth in your letter of February 7, 1957, that within six months from this date you will file a supplemental drilling program providing for a well to be drilled in 1957 and to be located in Section 2 Township 27 North Range 6 West, said well to be drilled to the Mesaverde formation, or to be dually completed in both the Mesaverde formation and Pictured Cliffs formation, whichever is feasible after further evaluation of this acreage.

We wish to thank you for your kind consideration in this matter.

Very truly yours,

MURRAY E. MORGAN
Commissioner of Public Lands

By: Ted Bilberry, Supervisor
Oil and Gas Department

MEM/m
enc: 1
cc: OCC-Santa Fe
USGS-Roswell

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

February 11, 1957

543

El Paso Natural Gas Company
El Paso, Texas

Attention: Mr. Samuel Smith

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
1957 Drilling Program

Gentlemen:

This is to advise that the 1957 Drilling Program for the subject unit area, dated December 31, 1956, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

You are reminded that approval of the drilling program does not constitute approval of the dual completions proposed, and that individual approval for each of said duals must be obtained in the prescribed manner.

One copy of the approved program is returned herewith.

Very truly yours,

A. L. PORTER, JR.
Secretary-Director

ALP:DSN:dea
Enclosure

C
O
P
Y

El Paso Natural Gas Company

El Paso, Texas

February 8, 1957

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: -San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NINETEENTH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective December 1, 1956

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dated indicated below that one additional well capable of producing unitized substances in paying quantities from the Mesaverde formation has been completed upon acreage committed to this Unit. The Participating Area for the Mesaverde formation is expanded accordingly to include this well as follows:

The Pacific Northwest Well San Juan 28-6 #65-24 is located 1750' from the North line and 1650' from the East line of Section 24, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on September 26, 1956 and completed on October 24, 1956, at a total depth of 5748', plugged back to 5744'. The Mesaverde formation was treated with a water fracturing process between the following depths:

5730' - 5726', 5678' - 5674', 5658' - 5652', 5644', - 5634',
5628' - 5624', 5618' - 5608', 5602' - 5598', 5580' - 5576',
5572' - 5568', 5558' - 5550', 5544' - 5524', 5476' - 5472',
5452' - 5444', 5280' - 5276', 5272' - 5270', 5262' - 5256',
5192' - 5188', 5178' - 5160', 5156' - 5146', 5142' - 5138',
5132' - 5124', and 5118' - 5108'.

After being shut in for seven (7) days, the well was tested on November 14, 1956, and following a three (3) hour blow down period, gauged 3897 MCFGPD through a 3/4" choke and 5648 MCFGPD by the calculated absolute open flow method, with an SIPC of 1032# and an SIPT of 1030#. The committed drilling block upon which this well is located is described as the E/2 of Section 24, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres.

The inclusion into the Participating Area for the Mesaverde formation of the above captioned well creates an intervening drilling block described as the E/2 of Section 13, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement this drilling block is admitted to the Participating Area as of December 1, 1956, at the same time as the admission of the Pacific Northwest Well San Juan 28-6 #65-24. Drilling must be commenced upon this intervening drilling block by 12-1-57.

Attached is Schedule XX, showing the Nineteenth Expanded Participating Area for the Mesaverde formation for the San Juan 28-6 Unit Area. This described the Expanded Participating Area and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval no provision is made therefor, and in the absence of disapproval this Expanded Participating Area will become effective as of December 1, 1956.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 

Samuel Smith
Ass't. Manager
Lease Department

SS:GBL:cr

cc: Attached List

542

IN REPLY REFER TO:



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 6721
Roswell, New Mexico

January 28, 1957

file

El Paso Natural Gas Company
P. O. Box 1192
El Paso, Texas

Attention: Mr. E. L. Hamblin

Gentlemen:

Your plan of development dated December 31, 1956, for the San Juan 28-6 Unit Area, New Mexico, for the calendar year 1957, has been approved on this date subject to like approval by the appropriate State of New Mexico officials.

One approved copy of the plan is enclosed.

Very truly yours,

(Sgd. Sgd.) R. E. CANFIELD

R. E. CANFIELD
Acting Regional Oil and Gas Supervisor

Enclosure

Copy to: Wash. (w/copy of plan)
Farmington (w/copy of plan)
Comm. of Public Lands, Santa Fe (letter only)
✓ Oil Cons. Comm., Santa Fe (letter only)

El Paso Natural Gas Company

El Paso, Texas

December 31, 1956

Mr. John Anderson
Regional Oil & Gas Supervisor
United States Geological Survey
P.O. Box 6721
Roswell, New Mexico

Oil Conservation Commission
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Commissioner of Public Lands
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

OK
H

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
DRILLING PROGRAM for 1957

Gentlemen:

By letter of December 29, 1955, El Paso Natural Gas Company set forth its Drilling Program for the above captioned unit providing for the drilling of fourteen (14) wells in the Mesaverde formation between the dates of January 1, 1956 through December 31, 1956. Subsequently on July 10, 1956, a supplemental Drilling Program was set forth providing for the drilling of two (2) additional wells during the balance of the calendar year 1956.

Of the sixteen (16) wells on the 1956 Drilling Program, fifteen (15) have been drilled and one (1) is being drilled at this time. The well which has not yet been fully completed is No. 51, located in the W/2 of Section 29, Township 28 North, Range 6 West, N.M.P.M.

The wells on the 1956 Drilling Program, with completion data, are as follows:

<u>Well Name</u>	<u>Drilling Block</u>	<u>Initial Potential</u>	<u>Tied-In</u>
<u>San Juan 28-6 Unit:</u>			
Well #50	W/2 Sec. 19 (28-6)	A.O.F. 7834 MCF/D	5-21-56
#51	W/2 Sec. 29 (28-6)	Not Completed	Not tied-in
#52	E/2 Sec. 31 (28-6)	A.O.F. 9629 MCF/D	5-18-56

<u>Well Name</u>	<u>Drilling Block</u>	<u>Initial Potential</u>	<u>Tied-In</u>
<u>San Juan 28-6 Unit:</u>			
Well #53	W/2 Sec. 8 (27-6)	A.O.F. 7423 MCF/D	Not tied-in
#54	W/2 Sec. 7 (27-6)	A.O.F. 10753 "	10-3-56
#55	W/2 (All) Sec. 9 (28-6)	A.O.F. 29245 "	Not tied-in
#56	W/2 (All) Sec. 11 (28-6)	A.O.F. 13900 "	Not tied-in
#57	W/2 Sec. 13 (28-6)	A.O.F. 15367 "	Not tied-in
#58	E/2 Sec. 23 (28-6)	A.O.F. 17083 "	Not tied-in
#59	W/2 Sec. 14 (28-6)	A.O.F. 9448 "	Not tied-in
#60	E/2 Sec. 21 (28-6)	A.O.F. 13232 "	Not tied-in
#61	W/2 Sec. 21 (28-6)	A.O.F. 8405 "	Not tied-in
#62	E/2 Sec. 22 (28-6)	A.O.F. 11227 "	Not tied-in
#63	W/2 Sec. 22 (28-6)	A.O.F. 9573 "	Not tied-in
#64	W/2 Sec. 14 (27-6)	A.O.F. 8529 "	10-24-56
#65	E/2 Sec. 24 (28-6)	A.O.F. 5648 "	Not tied-in

To date sixty (60) commercial wells in the San Juan 28-6 Unit have been admitted to the Participating Area and forty-three (43) wells have been tied into our gathering system. Total production from the unit from January 1, 1956 through November 30, 1956 was 3,399,091 MCF, and the value from the sale of natural gas, propane, butane and condensates for the same eleven-months period was \$432,128.00.

Pursuant to Section 10 of the above numbered unit agreement, El Paso Natural Gas Company, as Unit Operator, herewith submits its proposed Drilling Program for the Unit for the period from January 1, 1957 through December 31, 1957.

As Unit Operator, we have canvassed all working interest owners in the Unit and the proposed Drilling Program covers all drilling requests that we have received.

The proposed wells are as follows:

<u>Drilling Block</u>	<u>Formation</u>
* E/2 Section 3, T-27-N, R-6-W	Mesaverde
* W/2 Section 3, T-27-N, R-6-W	Mesaverde
E/2 Section 11, T-27-N, R-6-W	Mesaverde and Pictured Cliffs
W/2 Section 13, T-27-N, R-6-W	Mesaverde and Pictured Cliffs
E/2 Section 14, T-27-N, R-6-W	Mesaverde and Pictured Cliffs
W/2 Section 24, T-27-N, R-6-W	Mesaverde and Pictured Cliffs
W/2 Section 25, T-27-N, R-6-W	Mesaverde and Pictured Cliffs
E/2 Section 13, T-28-N, R-6-W	Mesaverde
* E/2 Section 19, T-28-N, R-6-W	Mesaverde
* W/2 Section 23, T-28-N, R-6-W	Mesaverde

* Intervening drilling block necessary to be drilled in 1957.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Mesaverde wells to the base of the Mesaverde formation using rotary tools. Surface casing 10-3/4" will be set to approximately 150' below the surface and an intermediate string of 7-5/8" will be set through the Pictured Cliffs formation to a depth of approximately 3,200'. A 5-1/2" production string will be set through the Mesaverde formation, and the casing of the Mesaverde formation will then be selectively perforated and the Mesaverde formation will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above listed Mesaverde-Pictured Cliffs dual wells to the base of the Mesaverde formation using rotary tools. Surface casing of 10-3/4" will be set to approximately 150' below the surface and an intermediate string of 7-5/8" will be set through the Pictured Cliffs formation to a depth of approximately 3,200'. A 5-1/2" production liner will be set from this point through the Mesaverde formation. The Mesaverde formation will then be selectively perforated and subjected to a hydraulic fracturing process, after which a bridging plug will be set above the Mesaverde formation and the Pictured Cliffs formation will be selectively perforated and subjected to a hydraulic fracturing process. For completion, a production packer will be set between the two formations using 2" tubing to produce the Mesaverde. A string of 1-1/4" tubing will be run through which the Pictured Cliffs formation will be produced. Mud will be used in setting the intermediate string of casing and the hole below the intermediate string will be drilled with gas. Due care will be taken to protect all horizons.

El Paso Natural Gas Company, as Unit Operator, will protect the Unit from drainage, and will comply with any drilling requirement created under the terms of the Unit Agreement calling for additional drilling.

If this drilling program is acceptable, please signify your approval of the drilling as required under Section 10 of the Unit Agreement in the space provided below. Please return an approved copy to El Paso Natural Gas Company, Unit Operator.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 

Samuel Smith
Assistant Manager
Lease Department

SS:GBL:nt

APPROVED: _____
Supervisor, United States Geological Survey

DATE: _____

Subject to like approval by the appropriate State Officials.

APPROVED: _____
Commissioner of Public Lands

DATE: _____

Subject to like approval by the USGS and the Oil Conservation Commission.

APPROVED: _____
Oil Conservation Commission

DATE: _____

Subject to like approval by the USGS and the Commissioner of Public Lands.

The foregoing approvals are for the 1957 Drilling Program for the
San Juan 28-6 Unit, New Mexico.

243
El Paso Natural Gas Company

El Paso, Texas

November 30, 1956

5

Director

United States Geological Survey

Department of the Interior

Washington, D. C.

Commissioner of Public Lands

of the State of New Mexico

Capitol Annex Building

Santa Fe, New Mexico

Oil Conservation Commission

of the State of New Mexico

Capitol Annex Building

Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051

Rio Arriba County, New Mexico

NOTICE OF COMPLETION OF ADDITIONAL WELL

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement,

#14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit

Operator, determined on the date set out below that one (1) additional well cap-

able of producing unitized substances in paying quantities from the Mesaverde

Formation has been completed upon acreage committed to this unit:

1. San Juan 28-6 Well #53 is located 1600' from the South line and

950' from the West line of Section 8, Township 27 North, Range

6 West, N.M.P.M., Rio Arriba County, New Mexico. This Well was

spudded on September 12, 1956, and completed on September 30,

1956, at a total depth of 5278'. The Point Lookout Section of the

Mesaverde Formation between the depths of 5051' - 5061', 5110' -

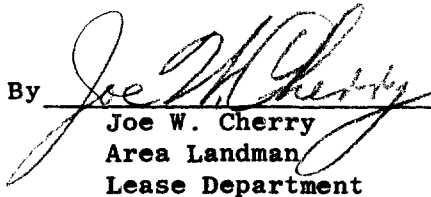
320.00 acres. As the drilling block upon which the San Juan 28-6 Unit Well #53 is located was included in the Eleventh Expanded Participating Area for the Mesaverde Formation, effective September 1, 1955, as an intervening drilling block, the participating area is not now enlarged by the addition of this Well, and the percentages allocated to the tract shown on Schedule XII, for the Eleventh Expanded Participating Area, remain the same.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By


Joe W. Cherry
Area Landman
Lease Department

JWC:GBL:nt

cc: Attached List

San Juan 28-6 Unit
Working Interest Owners

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. A. Brown
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Phillips Petroleum Company
301 Korber Building
Albuquerque, New Mexico

Mr. R. N. Richey (4)
Mr. M. A. Ehrlich (1)
Pacific Northwest Pipeline Corporation
Post Office Box 1526
Salt Lake City, Utah

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Sinclair Oil and Gas Company
Denver Club Building
Denver 2, Colorado

Skelly Oil Company
Post Office Box 1650
Tulsa 2, Oklahoma

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

Mr. R. E. Beamon
346 Esperson Building
Houston 2, Texas

Mr. H. K. Riddle
2 North 8th Street
Payette, Idaho

Mr. C. F. Bedford (3)
Stanolind Oil and Gas Company
Post Office Box 1410
Fort Worth, Texas

Stanolind Oil and Gas Company
Post Office Box 1714
Albuquerque, New Mexico

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
Post Office Box 1419
Albuquerque, New Mexico

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
Post Office Box 192
Sistersville, West Virginia

Texas National Petroleum Company
902 South Coast Life Building
Houston 2, Texas

Riasan Company
615 Simms Building
Albuquerque, New Mexico

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Mr. T. F. Harrington
615 Simms Building
Albuquerque, New Mexico

El Paso Natural Gas Company

El Paso, Texas

October 10, 1956

file

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
Notice of Completion of Additional Well

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below (August 27, 1956) that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon the acreage committed to the unit:

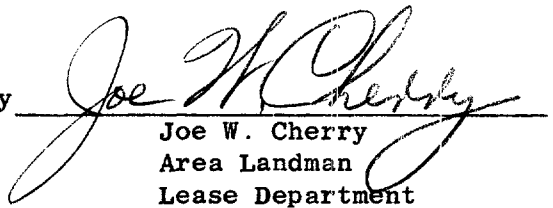
The San Juan 28-6 Well #55 is located 850' from the South line and 850' from the West line of Section 9, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on July 22, 1956, and completed on August 15, 1956, at a total depth of 5999'. The Point Lookout section of the Mesaverde Formation between the depths of 5812' - 5826', 5842' - 5854', 5907' - 5915', 5934' - 5942', was treated with a water-sand fracturing process on August 12, 1956. The Cliff House section of the Mesaverde Formation was likewise treated with a water-sand fracturing process between the depths of 5414' - 5422', 5440' - 5456', and 5478' - 5488' on August 12, 1956. After being shut-in for twelve days, the well was tested on August 27, 1956, using the calculated absolute open flow method, and after a three hour blow-down period, gauged an IP of 29,245 MCFGPD with an SIPC of 1045# and an SIPT of 1041#. The choke volume flow gauged 6,131 MCF/D.

The committed drilling block upon which this well is located is described as the S/2 (All) of Section 9, Township 28 North, Range 6 West, containing 284.20 acres. As the said drilling block upon which the San Juan 28-6 Unit Well #55 is located was included in the Thirteenth Expanded Participating Area for the Mesa-verde Formation, effective November 1, 1955, as an intervening drilling block, the Participating Area is not now enlarged by the addition of this well, and the percentages allocated to the tracts shown on Schedule XIV for the Thirteenth Expanded Participating Area remain the same.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
Joe W. Cherry
Area Landman
Lease Department

JWC:GBL:pb

cc: Attached List

El Paso Natural Gas Company

El Paso, Texas

August 31, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELLS

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that two (2) additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation have been completed upon the acreage committed to the unit:

1. The San Juan 28-6 Well #56 is located 1090' from the South line and 990' from the West line of Section 11, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on July 1, 1956 and completed on July 21, 1956, at a total depth of 5673'. The Point Lookout section of the Mesaverde formation between the depths of 5446'-5466', 5512'-5522', was treated with a water sand fracturing process on July 18, 1956. The Cliff House section of the Mesaverde formation was likewise treated with a water sand fracturing process between the depths of 5016'-5026', 5034'-5042', 5052'-5068' on July 18, 1956. After being shut-in for nine (9) days the well was tested on July 30, 1956 using a calculated absolute open flow test, and after a three hour blow-down gauged an IP of 13,900 MCFGPD with an SIPC of 1057# and an SIPT of 1049#. The committed drilling block upon which this well is located is described as the S/2 (All) of Section 11, Township 28 North, Range 6 West, containing 282.80 acres. As the drilling block upon which the San Juan 28-6 Unit Well #56 is located, the S/2 (All) of Section 11, Township 28 North, Range 6 West, was included

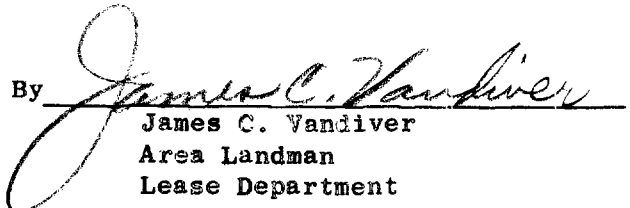
in the Thirteenth Expanded Participating Area for the Mesaverde formation effective November 1, 1955, as an intervening drilling block, the Participating Area is not now enlarged by the addition of this well, and the percentages allocated to the tracts shown on Schedule XIV for the Thirteenth Expanded Participating Area remain the same.

2. The San Juan 28-6 Unit Well #58 is located 990' from the North line and 1550' from the East line of Section 23, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on June 10, 1956 and completed on June 30, 1956 at a total depth of 5768'. The Point Lookout section of the Mesaverde formation between the depths of 5532'-5552', 5573'-5583' was treated with a water sand fracturing process on June 29, 1956. The Cliff House section of the Mesaverde formation was likewise treated with a water sand fracturing process between the depths of 5120'-5128', 5142'-5152', 5164'-5176', and 5193'-5213' on June 29, 1956. After being shut-in for seventeen (17) days the well was tested on July 17, 1956, using a calculated absolute open flow test, and after a three hour blow-down gauged an IP of 17,083 MCFGPD with an SIPC of 1065# and an SIPT of 1057#. The committed drilling block upon which this well is located is described as the E/2 of Section 23, Township 28 North, Range 6 West, containing 320.00 acres. As the drilling block upon which the San Juan 28-6 Unit Well #58 is located, the E/2 of Section 23, Township 28 North, Range 6 West, was included in the Tenth Expanded Participating Area for the Mesaverde formation effective August 1, 1955, as an intervening drilling block, the Participating Area is not now enlarged by the addition of this well, and the percentages allocated to the tracts shown on Schedule XI for the Tenth Expanded Participating Area remain the same.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
James C. Vandiver
Area Landman
Lease Department

RLH:GBL:eb

cc: Attached List

El Paso Natural Gas Company

11 1 12

El Paso, Texas

August 28, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
Letter of Clarification
Seventeenth Expanded Participating Area
Mesaverde Formation, Effective May 1, 1956

Gentlemen:

Under date of August 7, 1956, El Paso Natural Gas Company, as Unit Operator of the above captioned unit, submitted a letter and schedule for the Seventeenth Expanded Participating Area of the Mesaverde Formation.

In paragraph one of the letter referred to, it was stated that "an intervening drilling block thereby exists between it and the San Juan 28-6 Unit Well #4, located in the W/2 of Section 23, Township 28 North, Range 6 West, N.M.P.M., consisting of 320.00 acres."

For purposes of clarification, you are advised that the reference in said paragraph was to the intervening drilling block located in the W/2 of Section 23, Township 28 North, Range 6 West. Well #4 mentioned in said paragraph is located in the W/2 of Section 26, Township 28 North, Range 6 West.

A copy of this letter is being sent to the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By James C. Vandiver
James C. Vandiver
Area Landman
Lease Department

El Paso Natural Gas Company

El Paso, Texas

August 22, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
SUPPLEMENTAL 1956 DRILLING PROGRAM

Gentlemen:

At the request of Pubco Petroleum Corporation and Pacific Northwest Pipeline Corporation, El Paso Natural Gas Company, as Unit Operator of the San Juan 28-6 Unit, filed on July 10, 1956 a Supplemental Drilling Program consisting of two Mesaverde wells to be located in the E/2 of Section 24 and the W/2 of Section 29, Township 28 North, Range 6 West. One well was to be drilled by Pubco and the other well was to be drilled by Pacific Northwest.

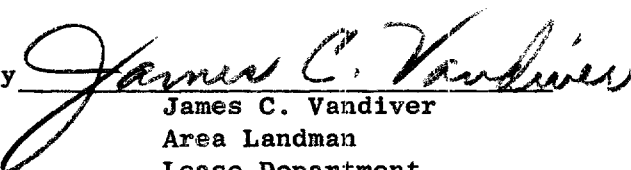
Pubco has since advised Unit Operator that they will be unable to drill their well this year, and Unit Operator now advises that Pacific Northwest will drill both of the heretofore described wells.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By


James C. Vandiver
Area Landman
Lease Department

JCV:GBL:pb
cc: Attached List

13
El Paso Natural Gas Company

El Paso, Texas

August 21, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

fill

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
EIGHTEENTH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective July 1, 1956

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates indicated below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include these wells as follows:

1. The San Juan 28-6 Unit Well #54 is located 1055' from the South line and 1813' from the West line of Section 7, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on May 5, 1956, and completed on May 23, 1956, at a total depth of 5600'. The Point Lookout section of the Mesaverde Formation between the depths of 5372' - 5382', 5392' - 5404' and 5468' - 5478', 5488' - 5498', 5526' - 5536' was treated with a water-sand fracturing process on May 20, 1956. The Cliff House section of the Mesaverde Formation was likewise treated with a water-sand fracturing process between the depths of 4880' - 4896', 4910' - 4922' on May 21, 1956. After being shut-in for thirteen days, the well was tested on June 5, 1956 using an AOF, and after a three hour blow-down gauged an IP of 10753 MCF/D with an SIPC of 1063# and SIPT of 1063#. The committed drilling block upon which this well is located is described as the W/2 of Section 7, Township 27 North, Range 6 West, containing 315.68 acres.

2. The San Juan 28-6 Unit Well #57 is located 1076' from the South line and 1125' from the West line of Section 13, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on May 17, 1956 and completed on June 8, 1956 at a total depth of 5660'. The Point Lookout section of the Mesaverde Formation between the depths of 5453' - 5466' and 5490' - 5506' was treated with a water-sand fracturing process on June 6, 1956. The Cliff House section of the Mesaverde Formation was likewise treated with a water-sand fracturing process between the depths of 5054' - 5062', 5070' - 5080', 5094' - 5106' on June 7, 1956. After being shut-in for fourteen days, the well was tested on June 22, 1956, using an AOF, and after a three hour blow-down gauged an IP of 15367 MCF/D with an SIPC of 1086# and an SIPT of 1083#. The committed drilling block upon which this well is located is described as the W/2 of Section 13, Township 28 North, Range 6 West, containing 320 acres. Inasmuch as this drilling block has already been admitted to the Participating Area as an intervening drilling block by the Eighth Expansion, effective June 1, 1955, it is not included in this expansion.
3. The San Juan 28-6 Unit Well #64 is located 990' from the South line and 990' from the West line of Section 14, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on May 14, 1956, and completed on June 2, 1956 at a total depth of 5577'. The Point Lookout section of the Mesaverde Formation between the depths of 5376' - 5390', 5416' - 5434', 5455' - 5466' was treated with a water-sand fracturing process on May 29, 1956. The Cliff House section of the Mesaverde Formation was likewise treated with a water-sand fracturing process between the depths of 4792' - 4804', 4814' - 4824' and 4884' - 4898', 4906' - 4920', 4934' - 4953', on May 29, 1956. After being shut-in for twelve days the well was tested on June 14, 1956, using an AOF, and after a three hour blow-down, gauged an IP of 8529 MCF/D with an SIPC of 1065# and SIPT OF 1032#. The committed drilling block upon which this well is located is described as the W/2 of Section 14, Township 27 North, Range 6 West, containing 320 acres.

No intervening drilling blocks were brought into the participating area due to the completion of the three (3) wells above listed.

Attached is Schedule XIX showing the Eighteenth Expanded Participating Area for the Mesaverde Formation for the San Juan 28-6 Unit Area. This describes the expanded Participating Area and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval this Expanded Participating Area will become effective as of July 1, 1956.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



R. L. Hamblin
Manager
Lease Department

El Paso Natural Gas Company

El Paso, Texas

August 10, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
SUPPLEMENTAL 1956 DRILLING PROGRAM

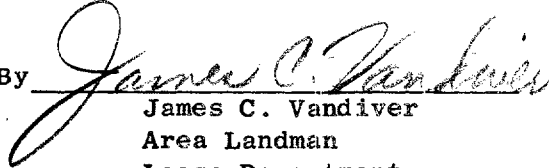
Gentlemen:

This is to advise that the Supplemental 1956 Drilling Program for the San Juan 28-6 Unit has been approved as follows:

1. Approved by the United States Geological Survey on July 16, 1956.
2. Approved by the Oil Conservation Commission of the State of New Mexico on August 3, 1956.
3. Approved by the Commissioner of Public Lands of the State of New Mexico on July 19, 1956.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
James C. Vandiver
Area Landman
Lease Department

JCV:GBL:pb

cc: Attached List

643
El Paso Natural Gas Company

El Paso, Texas

August 7, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

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Re: San Juan 28-6 Unit #14-08-001-1051
Rio Arriba County, New Mexico
SEVENTEENTH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective May 1, 1956

Gentlemen:

Upon completion of the San Juan 28-6 Unit Well #59 on March 15, 1956, tested April 5, 1956, which well is located in the W/2 of Section 14, Township 28 North, Range 6 West, N.M.P.M., an intervening drilling block thereby exists between it and the San Juan 28-6 Well #4, located in the W/2 of Section 23, Township 28 North, Range 6 West, N.M.P.M., consisting of 320.00 acres.

Under the terms of Section 11 (a) of the Unit Agreement this intervening drilling block is admitted to the Participating Area effective May 1, 1956, and a well must be commenced on said intervening drilling block by May 1, 1957.

Attached is Schedule XVIII showing the Seventeenth Expanded Participating Area for the Mesaverde Formation, San Juan 28-6 Unit. This describes the Expanded Participating Area, shows the percentage of unitized substances allocated to each tract, and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of May 1, 1956.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By *R. L. Hamblin*
R. L. Hamblin, Manager
Lease Department

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

*Case
543*

August 3, 1956

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

Attention: Mr. Sam Smith

Re: San Juan 28-6 Unit
1956 Supplemental
Drilling Program

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the above-captioned supplemental drilling program, dated July 10, 1956, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

A. L. Porter, Jr.
Secretary-Director

ALP:jh

C
O
P
Y

El Paso Natural Gas Company

El Paso, Texas

July 23, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELLS

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company as Unit Operator determined on the dates set out below that five (5) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to the Unit:

1. The San Juan 28-6 Unit Well #50 is located 1510' from the South line and 1185' from the West line of Section 19, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on March 18, 1956, and completed on April 12, 1956, at a total depth of 5727'. The Point Lookout section of the Mesaverde Formation between the depths of 5560' - 5572', 5597' - 5614', 5641' - 5655' was treated with a water-sand fracturing process on April 9, 1956. The Cliff House section of the Mesaverde Formation was likewise treated with a water-sand fracturing process between the depths of 5008' - 5022', 5068' - 5083', 5124' - 5140', 5178' - 5190' on April 10, 1956. After being shut-in for eight days the well was tested on April 20, 1956, using an AOF, and after a three hour blow-down gauged an IP of 7834 MCFGPD with an SIPC of 1040# and an SIPT of 1030#. The committed drilling block upon which this well is located is described as the W/2 of Section 19, Township 28 North, Range 6 West, containing 262.76 acres.

2. The San Juan 28-6 Unit Well #52 is located 1825' from the North line and 1725' from the East line of Section 31, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on February 25, 1956, and completed on March 15, 1956, at a total depth of 5560'. The Point Lookout section of the Mesaverde Formation between the depths of 5374' - 5384', 5418' - 5428', 5472' - 5488', 5509' - 5519' was treated with a water-sand fracturing process on March 10, 1956, and March 11, 1956. The Cliff House section of the Mesaverde Formation was likewise treated with a water-sand fracturing process between the depths of 4824' - 4837', 4867' - 4874', 4900' - 4910', 4920' - 4928', 4980' - 4987' on March 11, 1956. After being shut-in for twenty-five days the well was tested on April 9, 1956, using an AOF, and after a three hour blow-down gauged an IP of 9629 MCFGPD with an SIPC of 1085# and an SIPT of 1075#. The committed drilling block upon which this well is located is described as the E/2 of Section 31, Township 28 North, Range 6 West, containing 326.29 acres.
3. The San Juan 28-6 Unit Well #59 is located 790' from the South line and 850' from the West line of Section 14, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on February 25, 1956, and completed on March 15, 1956, at a total depth of 5700', plugged back to 5690'. The Point Lookout section of the Mesaverde Formation between the depths of 5498' - 5520', 5524' - 5528', 5534' - 5538', 5542' - 5546', 5550' - 5554', 5574' - 5586', 5592' - 5598', 5604' - 5614', 5620' - 5632', 5642' - 5652', 5655' - 5659' was treated with a water fracturing process. The Cliff House section of the Mesaverde Formation was likewise treated with a water fracturing process between the depths of 5058' - 5062', 5068' - 5072', 5076' - 5094', 5100' - 5108', 5114' - 5128'. After being shut-in for twenty-one days the well was tested on April 5, 1956, using an AOF, and after a three hour blow-down gauged an IP of 9948 MCFGPD with an SIPC of 1105# and an SIPT of 1105#. The committed drilling block upon which this well is located is described as the W/2 of Section 14, Township 28 North, Range 6 West, containing 320.00 acres.
4. The San Juan 28-6 Unit Well #60 is located 1140' from the North line and 1450' from the East line of Section 21, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on March 13, 1956, and completed on March 29, 1956, at a total depth of 5680'. The Point Lookout section of the Mesaverde Formation between the depths of 5496' - 5524', 5528' - 5542', 5546' - 5558', 5562' - 5566', 5582' - 5596', 5622' - 5632', 5636' - 5646', 5650' - 5656' was fractured with a water fracturing process. The Cliff House section of the Mesaverde Formation was likewise treated with a water fracturing process between the depths of 5060' - 5066', 5070' - 5076', 5084' - 5110', 5120' - 5128'. After being shut-in for fifteen days the

well was tested on April 13, 1956, using an AOF, and after a three hour blow-down gauged an IP of 13232 MCFGPD with an SIPC of 1117# and an SIPT of 1116#. The committed drilling block upon which this well is located is described as the E/2 of Section 21, Township 28 North, Range 6 West, containing 320 acres.

5. The San Juan 28-6 Unit Well #61 is located 830' from the South line and 800' from the West line of Section 21, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on March 15, 1956, and completed on April 6, 1956, at a total depth of 5500', plugged back to 5493'. The Point Lookout section of the Mesaverde Formation between the depths of 5320' - 5330', 5334' - 5338', 5342' - 5360', 5366' - 5370', 5376' - 5382', 5396' - 5400', 5404' - 5408', 5420' - 5430', 5438' - 5446', 5464' - 5470' was treated with a water fracturing process. The Cliff House section of the Mesaverde Formation was likewise treated with a water fracturing process between the depths of 4896' - 4906', 4912' - 4918', 4928' - 4938', 4944' - 4966'. After being shut-in for seven days the well was tested on April 13, 1956, using an AOF, and after a three hour blow-down gauged an IP of 8405 MCFGPD with an SIPC of 1117# and an SIPT of 1116#. The committed drilling block upon which this well is located is described as the W/2 of Section 21, Township 28 North, Range 6 West, containing 320 acres.

The drilling block upon which the San Juan 28-6 Unit Well #50 is located, the W/2 of Section 19, Township 28 North, Range 6 West, was included in the Fifteenth Expanded Participating Area for the Mesaverde Formation, effective January 1, 1956, as an intervening drilling block. Therefore, the Participating Area is not now enlarged by the addition of this well and the percentages allocated to the tracts shown on Schedule XVI for the Fifteenth Expanded Participating Area remain the same.

The drilling block upon which the San Juan 28-6 Unit Well #52 is located, the E/2 of Section 31, Township 28 North, Range 6 West, was included in the Seventh Expanded Participating Area for the Mesaverde Formation, effective February 1, 1955, as an intervening drilling block. Therefore, the Participating Area is not now enlarged by the addition of this well and the percentages allocated to the tracts shown on Schedule VIII for the Seventh Expanded Participating Area remain the same.

The drilling block upon which the San Juan 28-6 Unit Well #59 is located, the W/2 of Section 14, Township 28 North, Range 6 West, was included in the Twelfth Expanded Participating Area for the Mesaverde Formation, effective October 1, 1955, as an intervening drilling block. Therefore, the Participating Area is not now enlarged by the addition of this well and the percentages allocated to the tracts shown on Schedule XIII for the Twelfth Expanded Participating Area remain the same.

The drilling block upon which the San Juan 28-6 Unit Well #60 is located, the E/2 of Section 21, Township 28 North, Range 6 West, was included in the Fourteenth Expanded Participating Area for the Mesaverde Formation, effective December 1, 1955, as an intervening drilling block. Therefore, the Participating Area is not now enlarged by the addition of this well, and the percentages allocated to the tracts shown on Schedule XV for the Fourteenth Expanded Participating Area remain the same.

The drilling block upon which the San Juan 28-6 Unit Well #61 is located, the W/2 of Section 21, Township 28 North, Range 6 West, was included in the Sixteenth Expanded Participating Area for the Mesaverde Formation, effective February 1, 1956, as an intervening drilling block. Therefore, the Participating Area is not now enlarged by the addition of this well and the percentages allocated to the tracts shown on Schedule XVII for the Sixteenth Expanded Participating Area remain the same.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By James C. Vandiver
James C. Vandiver
Area Landman
Lease Department

JCV:GBL:pb

cc: Attached List

Working Interest Owners
San Juan 28-6 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. R. A. Brown
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Mr. R. N. Richey
Pacific Northwest Pipeline Corporation
720 Simms Building
Albuquerque, New Mexico

Mr. Jack Owens
Pacific Northwest Pipeline Corporation
M & M Building
Houston, Texas

Texas National Petroleum Company
902 South Coast Life Building
Houston 2, Texas

Skelly Oil Company
Post Office Box 1650
Tulsa 2, Oklahoma

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

Mr. R. E. Beamon
346 Esperson Building
Houston 2, Texas

Mr. C. F. Bedford
Stanolind Oil and Gas Company
Post Office Box 1410
Fort Worth, Texas

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
Post Office Box 192
Sistersville, West Virginia

Mr. C. H. McClure
Sinclair Oil and Gas Company
Denver Club Building
Denver 2, Colorado

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
Post Office Box 1419
Albuquerque, New Mexico

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Mr. T. F. Harrington
615 Simms Building
Albuquerque, New Mexico

Mr. H. K. Riddle
2 North 8th Street
Payette, Idaho

Riasan Company
615 Simms Building
Albuquerque, New Mexico



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 6721
Roswell, New Mexico

July 16, 1956

El Paso Natural Gas Company
Box 1492
El Paso, Texas

Gentlemen:

The supplemental plan of development dated July 10, 1956 for the San Juan 28-6 unit area, New Mexico, No. 14-08-001-1051, has been approved on this date, subject to like approval by the appropriate State officials.

The supplemental plan provides for the drilling of two additional Mesaverde wells making a total of 16 Mesaverde wells to be drilled in the unit area during the calendar year 1956.

Two approved copies of said plan are returned herewith.

Very truly yours,

(Orig. Sgd.) R. E. CANFIELD

R. E. CANFIELD
Acting Oil and Gas Supervisor

Copy to: Cons. Div., Wash (w/1 copy of plan)
Farmington (w/1 copy to plan)
NMOCG, Santa Fe (ltr only) _____

July 19, 1956

In reply refer to:
Unit Division

El Paso Natural Gas Co.
El Paso, Texas

Re: San Juan 28-6 Unit -
Supplemental 1956
Drilling Program

Attention: Mr. Sam Smith
Assistant Manager,
Lease Department

Gentlemen:

We are enclosing one copy of the Supplemental Drilling Program for 1956 for the San Juan 28-6 Unit, which was approved by the Commissioner of Public Lands July 19, 1956.

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

Very truly yours,

E. S. WALKER
Commissioner of Public Lands

MMR/m
enc: 1

cc: USGS-Roswell
OCC-Santa Fe

El Paso Natural Gas Company

El Paso, Texas

July 12, 1956

file

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
Ratification and Joinders

Gentlemen:

Herewith enclosed are Ratification and Joinders to the Unit Agreement for the above captioned unit, executed by the following named persons committing to the unit their basic royalty interest according to the percentages of ownership shown:

Horace F. McKay, et ux, Elmyra K. McKay, Tract 43, 12.5%	.12500
Odellia G. Adler, Tract 44, 1/20 of 12.5%	.00625

We respectfully request that you process these Ratification and Joinders in the usual manner to effectively commit the interest of the persons named to the above captioned unit. These Ratification and Joinders have already been approved by the United States Geological Survey.

Very truly yours,

James C. Vandiver
James C. Vandiver
Area Landman
Lease Department

JCV:GBL:eb
Enclosures

28-6, Tr. 43,44

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 22-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

1330 Newhall Ave., Newhall, California

Date: October 15, 1955

Date: _____

SIGNATURE

Odella G. Adler
Odella G. Adler

APPROVED AND CONSENTED TO:
PUBCO DEVELOPMENT, INC.
By [Signature]
Vice President
WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY
By [Signature] **RAH**
Vice President
WORKING INTEREST OWNER
UNIT OPERATOR

CONSENT

In consideration of the execution of the Unit Agreement for the development and operation of the San Juan 28-6 Unit Area, Rio Arriba County, New Mexico by Pacific Northwest Pipeline Corporation in form approved by the Secretary of the Interior and the Commissioner of Public Lands of the State of New Mexico, the undersigned owners of lands or interest in lands or royalties or other interests in production of oil, gas and other hydrocarbon substances which may be produced from the land affected by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement as being applicable to said several lands and interests, agree that the term of any lease or other agreement given by the undersigned in which the undersigned claims an interest is extended or modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling and development requirements of all leases and other instruments in which their several rights and interests are created or defined shall be deemed fully performed by the performance of the provisions of said Unit Agreement, and agree that payment for unitized substances upon the basis of production allocated under said Unit Agreement to the particular lands to which their rights or interest apply, regardless of actual production therefrom, shall constitute full performance of any and all such obligations to the undersigned existing under such leases or other contracts. For the same consideration each of the undersigned warrants and agrees that the schedule attached as Exhibit "B" to said Unit Agreement correctly states his interest in the lands within the unit area as of the date of his execution of this Consent.

The terms and provisions hereof shall extend to and be binding upon the heirs, personal representatives, successors and assigns of the undersigned and each of them.

IN WITNESS WHEREOF, the undersigned have caused this instrument to be effected and have set opposite their respective names the date of execution thereof.

ADDRESS

SIGNATURE

Date: _____

Date: _____

Date: _____

Date: _____

APPROVED AND CONSENTED TO:

EL PASO NATURAL GAS COMPANY

By RLH Vice President

UNIT OPERATOR

Approved and consented to:
Stanolind Oil and Gas Company

Working Interest Owner

APPROVED

Approved and consented to:
Pacific Northwest Pipeline Corporation

By RLH Vice President

Working Interest Owner

543 1-20

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of San Juan Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

Mamie Mangum
Mamie Mangum

Date: 6-20-56

Date: _____

APPROVED AND CONSENTED TO:

Forrest B. Fuller
Working Interest Owner

APPROVED AND CONSENTED TO:
EL PASO OIL COMPANY
By [Signature] RGH
Vice President
UNIT OF EL PASO

El Paso Natural Gas Company

MAIN OFFICE CCC

El Paso, Texas 1955 JUL 13 PM 1:27
July 10, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
SUPPLEMENTAL 1956 DRILLING PROGRAM

Gentlemen:

By letter of December 29, 1955, El Paso Natural Gas Company, as Unit Operator, filed its 1956 Drilling Program for the above captioned unit, providing for the drilling of fourteen (14) wells in the Mesaverde Formation between the dates of January 1, 1956 and December 31, 1956. This 1956 Drilling Program has been approved by the United States Geological Survey, the Commissioner of Public Lands of the State of New Mexico, and the Oil Conservation Commission of the State of New Mexico.

Pubco Petroleum Corporation and Pacific Northwest Pipeline Corporation have now advised us that they would like to drill or have drilled two (2) additional Mesaverde wells to be located as hereinafter set forth.

Therefore, El Paso Natural Gas Company, as Unit Operator, pursuant to Section 10 of the above numbered Unit Agreement, submits a proposed Supplemental Drilling Program for the balance of the calendar year 1956, providing for the drilling of the following two (2) wells in the Mesaverde Formation:

<u>Drilling Block</u>	<u>Formation</u>
E/2 Sec. 24, T-28-N, R-6-W	Mesaverde
W/2 Sec. 29, T-28-N, R-6-W	Mesaverde

The addition of the two (2) above described wells will make a total of sixteen (16) wells to be drilled in the Mesaverde Formation for the San Juan 28-6 Unit in the calendar year, 1956. They will be drilled in accordance with your operating regulations with due care being taken to protect all horizons.


Approval of this Supplemental Drilling Program is herewith respectfully requested. Please return an approved copy to El Paso Natural Gas Company, Unit Operator.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

A handwritten signature in cursive script, appearing to read "Sam Smith", is written over a horizontal line.

Sam Smith, Asst. Manager
Lease Department

SS:GBL:pb

cc: Attached list

APPROVED: _____
Supervisor, United States Geological Survey

Date: _____

Subject to like approval by the appropriate State Officials.

APPROVED: _____
Commissioner of Public Lands

Date: _____

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED: Al Porter
Oil Conservation Commission

Date: Aug 3, 1956

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

Re: San Juan 28-6 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. G. E. Benskin
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Mr. R. N. Richey
Pacific Northwest Pipeline Corporation
720 Simms Building
Albuquerque, New Mexico

Mr. Jack Owens
Pacific Northwest Pipeline Corporation
M & M Building
Houston, Texas

Texas National Petroleum Company
902 South Coast Life Building
Houston 2, Texas

Skelly Oil Company
Post Office Box 1650
Tulsa 2, Oklahoma

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

Mr. R. E. Beamon
346 Esperson Building
Houston 2, Texas

Mr. C. F. Bedford
Stanolind Oil and Gas Company
Post Office Box 1410
Fort Worth, Texas

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
Post Office Box 192
Sistersville, West Virginia

Mr. C. M. Pickrell
Sinclair Oil and Gas Company
Post Office Box 521
Tulsa, Oklahoma

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
Post Office Box 1419
Albuquerque, New Mexico

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Mr. T. F. Harrington
615 Simms Building
Albuquerque, New Mexico

Mr. H. K. Riddle
2 North 8th Street
Payette, Idaho

Riasan Company
615 Simms Building
Albuquerque, New Mexico

El Paso Natural Gas Company

El Paso, Texas

RECEIVED
MAY 1 1956

March 28, 1956

file

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: (San Juan 28-6 Unit)
Ratification and Joinders

Gentlemen:

Enclosed herewith please find Ratification and Joinders
of Unit Agreement executed by the following named persons:

1. Florence G. Kapp and husband Robert D. Kapp
2. Juanita G. Zapf and husband Max J. Zapf
3. Adolf J. Krehbiel and wife Frances M. Krehbiel
4. Alice G. Arellano and husband Napoleon Arellano
5. George C. Garcia, a single person
6. Susie G. Hooks and husband Hollis H. Hooks
7. Adelina G. Sanchez and husband Alberto F. Sanchez
8. Gloria Garcia, a feme sole
9. Lelia G. Garcia and husband Edward S. Garcia
10. Florinda G. Lopez and husband Edwardo Lopez

We respectfully request that you process these instruments
in the usual manner to commit the interests of the above named persons
to the captioned unit.

Very truly yours,

James C. Vandiver

James C. Vandiver
Area Landman
Lease Department

JCV:GBL:pb
Enclosures

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

2963 Redwood Ave.

Stockton, Calif

Date: June 14, 1955

Date: _____

Florence G. Kapp
Florence G. Kapp
Robert D. Kapp
Robert D. Kapp

APPROVED AND CONSENTED TO:
PUBCO DEVELOPMENT, INC.

By [Signature]
Vice President

WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY

By [Signature] RLH
Vice President

~~WORKING INTEREST OWNER~~
UNIT OPERATOR

STATE OF New Mexico)
COUNTY OF Bernalillo) SS.:

On this 20th day of July, 1955, before me appeared

Frank D. Gorham, Jr., to me personally known, who, being by me duly sworn, did say that he is the Vice President of Rubco Development, Inc. (NSL) and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said Frank D. Gorham, Jr. acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

My Commission Expires June 24, 1957

Mary Beth Harkness
Notary Public in and for Bernalillo
County,
State of New Mexico

STATE OF California)
COUNTY OF San Joaquin) SS.:

On this 14th day of June, 1956, before me appeared

ROBERT D. KAPP and ELIZABETH C. KAPP
his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:

November 19, 1958

Shirley L. McKenzie
Notary Public in and for
San Joaquin County,
State of California

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me personally

appeared _____, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____
County,
State of _____

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

3671 N.W. 14 Terr. Miami, Fla.

Juanita G. Zapf
Juanita G. Zapf

3671 N.W. 14 Terrace Miami, Fla

Max J. Zapf
Max J. Zapf

Date: June 20, 1955

Date: _____

APPROVED AND CONSENTED TO:
PUBCO DEVELOPMENT, INC.

By [Signature]
Vice President

WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY

By [Signature] RLH
Vice President

~~WORKING INTEREST OWNER~~
UNIT OPERATOR

STATE OF New Mexico)
COUNTY OF Bernalillo) SS.:

On this 20th day of July, 1955, before me appeared

Frank D. Gorham, Jr., to me personally known, who, being by me duly sworn, did say that he is the Vice President of Pubco Development, Inc. (MIL) and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said Frank D. Gorham, Jr. acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:
My Commission Expires June 24, 1957

Mary Beth Hardness
Notary Public in and for Bernalillo
County,
State of New Mexico

STATE OF FLORIDA)
COUNTY OF DADE) SS.:

On this 20th day of June, 1955, before me appeared

Max Zapp and Isabella Zapp
his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:
Feb 3rd 1958

Armed Kesey
Notary Public in and for DADE
County,
State of Florida

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me personally

appeared _____, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____
County,
State of _____

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

221 Jefferson Street

Adolf J. Krehbiel

Clayton, New Mexico

Frances M. Krehbiel

Date: June 13, 1965

Date: _____

APPROVED AND CONSENTED TO:
PUBCO DEVELOPMENT, INC.

By [Signature]
Vice President

WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY

By [Signature] RLA
Vice President

~~WORKING INTEREST OWNER~~
UNIT OPERATOR

STATE OF New Mexico)
COUNTY OF Bernalillo) SS.:

On this 20th day of July, 1955, before me appeared

Frank D. Gorham, Jr., to me personally known, who, being by me duly sworn, did say that he is the Vice President of Pubco Development, Inc. and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said Frank D. Gorham, Jr. acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

My Commission Expires June 24, 1957

Mary Beth Harrison
Notary Public in and for Bernalillo
County,
State of New Mexico

STATE OF NEW MEXICO)
COUNTY OF UNION) SS.:

On this 13th day of June, 1955, before me appeared

Adolf J. Krehbiel and Frances M. Krehbiel
his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:

October 11, 1957

Thomas J. Santos
Notary Public in and for _____
County,
State of _____

STATE OF _____)
COUNTY OF _____) SS.:

On this _____ day of _____, 195____, before me personally

appeared _____, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____
County,
State of _____

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

4215 Burbank Ave.

San Diego 17, Calif.

Date: June 24, 1955

Date: _____

Alice G. Arellano
Alice G. Arellano

Napoleon Arellano
Napoleon Arellano

Napoleon Arellano
Napoleon Arellano

APPROVED AND CONSENTED TO:

PUBCO DEVELOPMENT, INC. (No Stockholders Liability)

By: Richard L. Gilman
Vice President

WORKING INTEREST OWNER

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me appeared

_____, to me personally known, who, being
by me duly sworn, did say that he is the _____ President of _____
_____ and that the seal affixed to said instrument
is the corporate seal of said corporation, and that said instrument was signed
and sealed in behalf of said corporation by authority of its board of directors,
and said _____ acknowledged said instrument to be
the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official
seal the day and year in this certificate first above written.

My Commission expires:

Notary Public in and for _____
County,
State of _____

STATE OF CALIFORNIA)
COUNTY OF SAN DIEGO) SS.:

On this 24th day of June, 1955, before me appeared

Napoleon Bellan and Alice H. Bellan
his wife, to me known to be the persons described in and who executed the fore-
going instrument, and acknowledged to me they executed the same as their free act
and deed.

My Commission expires:

May 5, 1959

Barbara M. Bishop
Notary Public in and for _____
San Diego County,
State of California

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me personally

appeared _____, a single person, to me known to be
the person described in and who executed the foregoing instrument, and acknowledged
to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____
County,
State of _____

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

218 Natalie Ave NW
Albuquerque NM
Date: 6/30/55

SIGNATURE

George C Garcia
George C. Garcia
218 Natalie Ave NW
Albug, N. Mex.

Date: _____

APPROVED AND CONSENTED TO:

PUBCO DEVELOPMENT, INC. (No Stockholders Liability)

By: [Signature]
Vice President

WORKING INTEREST OWNER

STATE OF)
) SS.:
COUNTY OF

On this _____ day of _____, 195____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____ and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

Notary Public in and for _____
County,
State of _____

STATE OF)
) SS.:
COUNTY OF

On this _____ day of _____, 195____, before me appeared _____ and _____ his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:

Notary Public in and for _____
County,
State of _____

STATE OF NEW MEXICO)
) SS.:
COUNTY OF BERNALILLO

On this 30th day of June, 1955, before me personally appeared George C. Garcia, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that he he executed the same as his free act and deed.

My Commission expires:

July 13, 1958

Mrs Naomi L. Larson
Notary Public in and for _____
Bernalillo County,
State of New Mexico

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

Box 132, GROVELAND, FLORIDA

Susie G. Hooks
Susie G. Hooks

Box 132, GROVELAND, FLORIDA

Hollis H. Hooks
Hollis H. Hooks

Date: June 14, 1955

Date: _____

APPROVED AND CONSENTED TO:
PUBCO DEVELOPMENT, INC.

By [Signature]
Vice President
WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY

By [Signature] RLH
Vice President
~~WORKING INTEREST OWNER~~
UNIT OPERATOR

STATE OF New Mexico)
COUNTY OF Bernalillo) SS.:

On this 20th day of July, 1955, before me appeared

Frank D. Gorcham, Jr., to me personally known, who, being by me duly sworn, did say that he is the Vice President of Pubco Development, Inc. (NM) and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said Frank D. Gorcham, Jr. acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

My Commission Expires June 24, 1957

Mary Beth Harkness
Notary Public in and for Bernalillo
County,
State of New Mexico

STATE OF FLORIDA)
COUNTY OF LAKE) SS.:

On this 14th day of June, 1955, before me appeared

HOLLIS H. HOOKS and SUSIE G. HOOKS
his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:
Public, State of Florida at large
Commission expires June 29, 1956
Bonded by American Surety Co. of N. Y.

Ernie Kilford
Notary Public in and for _____
Lake County,
State of Florida

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me personally

appeared _____, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____
County,
State of _____

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

22 Court St.
Clayton, New Mexico

Date: June 16 - 1955

Adelina G. Sanchez
Adelina G. Sanchez
Alberto F. Sanchez
Alberto F. Sanchez

Date: _____

APPROVED AND CONSENTED TO:
PUBCO DEVELOPMENT, INC.

By [Signature]
Vice President
WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY

By [Signature] ELK
Vice President
~~WORKING INTEREST OWNER~~
UNIT OPERATOR

STATE OF New Mexico }
COUNTY OF Bernalillo } SS.:

On this 20th day of July, 1955, before me appeared

Frank D. Gorham, Jr., to me personally known, who, being
by me duly sworn, did say that he is the Vice President of Pubco
Development, Inc. (MSL) and that the seal affixed to said instrument
is the corporate seal of said corporation, and that said instrument was signed
and sealed in behalf of said corporation by authority of its board of directors,
and said Frank D. Gorham, Jr. acknowledged said instrument to be
the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official
seal the day and year in this certificate first above written.

My Commission expires:

My Commission Expires June 24, 1957

Mary Beth Harrison
Notary Public in and for Bernalillo
County,
State of New Mexico

STATE OF NEW MEXICO }
COUNTY OF UNION } SS.:

On this 16th day of JUNE, 1955, before me appeared

Alfredo A. Sanchez and Alberto J. Sanchez
his wife, to me known to be the persons described in and who executed the foregoing
instrument, and acknowledged to me they executed the same as their free act
and deed.

My Commission expires:

October 11, 1957.

Emma Lintas
Notary Public in and for _____
County,
State of Union New Mexico

STATE OF _____ }
COUNTY OF _____ } SS.:

On this _____ day of _____, 195____, before me personally

appeared _____, a single person, to me known to be
the person described in and who executed the foregoing instrument, and acknowledged
to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____
County,
State of _____

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

2112 Natalia N. Garcia

Miss Gloria Garcia
Gloria Garcia

Albuquerque, New Mexico

Date: _____

Date: _____

APPROVED AND CONSENTED TO:
PUBCO DEVELOPMENT, INC.

By [Signature]
Vice President

WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY

By [Signature] RLH
Vice President

WORKING INTEREST OWNER
UNIT OPERATOR

STATE OF Chattahoochee)
COUNTY OF Bernard) SS.:

On this 20th day of July, 1955, before me appeared

Frank D. Gorham, Jr., to me personally known, who, being by me duly sworn, did say that he is the Vice President of Pubco Development, Inc. (NSL) and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said Frank D. Gorham, Jr. acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

My Commission Expires June 24, 1957

Mary Beth Harman
Notary Public in and for Bernalillo
County,
State of New Mexico

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me appeared

_____ and _____
his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:

Notary Public in and for _____
County,
State of _____

STATE OF New Mexico)
COUNTY OF Bernalillo) SS.:

On this 20th day of June, 1955, before me personally

appeared Gloria Garcia, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that _____ she executed the same as her free act and deed.

My Commission expires:

April 16, 1959

Cecil C. Young
Notary Public in and for _____
Bernalillo County,
State of New Mexico

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

Springer, New Mexico
Springer N Mex
Date: 6-15-55

Lelia G. Garcia
Lelia G. Garcia
Edward S. Garcia
Edward S. Garcia
6-15-55

Date: _____

APPROVED AND CONSENTED TO:
PUBCO DEVELOPMENT, INC.

By [Signature]
Vice President
WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY
By [Signature] R.H.
Vice President
~~WORKING INTEREST OWNER~~
UNIT OPERATOR

STATE OF New Mexico }
COUNTY OF Bernalillo } SS.:

On this 20th day of July, 1955, before me appeared

Frank D. Gorham, Jr., to me personally known, who, being by me duly sworn, did say that he is the Vice President of Pubco Development, Inc. (MSL) and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said Frank D. Gorham, Jr. acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

My Commission Expires June 24, 1957

Mary Beth Harkness
Notary Public in and for Bernalillo
County,
State of New Mexico

STATE OF New Mexico }
COUNTY OF Alamosa } SS.:

On this 15 day of June, 1955, before me appeared

Lelan S. Hansen and Edward A. Garcia, her husband, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:

May 5 - 1958

Mary E. Hansen
Notary Public in and for _____
County,
State of New Mexico

STATE OF _____ }
COUNTY OF _____ } SS.:

On this _____ day of _____, 195____, before me personally

appeared _____, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____
County,
State of _____

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

609 Maera St.
Clayton N. Mex.
Date: June 13, 1955

Florinda G. Lopez
Florinda G. Lopez
Edwardo Lopez
Edwardo Lopez

Date: _____

APPROVED AND CONSENTED TO:
PUBCO DEVELOPMENT, INC.

By [Signature]
Vice President
WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY

By [Signature] RTH
Vice President
~~WORKING INTEREST OWNER~~
UNIT OPERATOR

STATE OF New Mexico)
COUNTY OF Bernalillo) SS.:

On this 20th day of July, 1955, before me appeared

Frank D. Gorham, Jr., to me personally known, who, being by me duly sworn, did say that he is the Vice President of Pubco Development, Inc. (NSL) and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said Frank D. Gorham, Jr. acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

My Commission Expires June 24, 1957

Mary Beth Sharpness
Notary Public in and for Bernalillo
County,
State of New Mexico

STATE OF NEW MEXICO)
COUNTY OF UNION) SS.:

On this 15th day of June, 1955, before me appeared

Florinda G. Lopez and Estuardo Lopez, her husband, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:

October 11, 1957.

Lenna Quintas
Notary Public in and for
Union County,
State of New Mexico

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me personally

appeared _____, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____
County,
State of _____

MAIN OFFICE
JULY 11 AM 8:25

El Paso Natural Gas Company

El Paso, Texas

May 25, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
NOTICE OF COMPLETION
OF ADDITIONAL WELLS
Mesaverde Formation

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined that two (2) additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation have been completed upon acreage committed to the Unit:

1. The Pacific Northwest Well San Juan 28-6 No. 62-22 is located 1650' from the North line and 1850' from the East line of Section 22, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on February 12, 1956 and completed on March 5, 1956, at a total depth of 5770'. The Point Lookout section of the Mesaverde formation between the depths of 5744'-5690', 5674'-5604' was treated with a water fracturing process. The Cliff House section of the Mesaverde formation was likewise treated with a water fracturing process between the depths of 5232'-5158'. After being shut-in for gauge for eleven (11) days, the well was tested on March 16, 1956, and after a three hour blow-down gauged an IP of 11,227 MCFGPD with an SIPC of 1098# and an SIPT of 1098#. The committed drilling block upon which this well is located is described as the E/2 of Section 22, Township 28 North, Range 6 West, containing 320.00 acres.

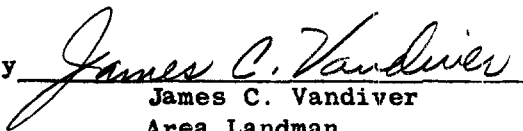
2. The Pacific Northwest Well San Juan 28-6 No. 63-22 is located 1650' from the South line and 1550' from the West line of Section 22, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on February 29, 1956, and completed on March 21, 1956, at a total depth of 5724'. The Point Lookout section of the Mesaverde formation between the depths of 5634'-5696' and 5568'-5616' was treated with a water fracturing process. The Cliff House section of the Mesaverde formation was likewise treated with a water fracturing process between the depths of 5114' and 5172'. After being shut-in for gauge for seven (7) days the well was tested on March 29, 1956, and after a three hour blow-down gauged an IP of 9573 MCFGPD with an SIPC of 1103# and an SIPT of 1027#. The committed drilling block upon which this well is located is described as the W/2 of Section 22, Township 28 North, Range 6 West, containing 320.00 acres.

The drilling block upon which the Pacific Northwest Well San Juan 28-6 No. 62-22 is located was included in the Thirteenth Expanded Participating Area, effective November 1, 1955, as an intervening drilling block; and the drilling block upon which the Pacific Northwest Well San Juan 28-6 No. 63-22 is located was included in the Sixteenth Expanded Participating Area, effective February 1, 1956, as an intervening drilling block. Therefore the Participating Area is not enlarged and the percentages allocated to the tracts shown on Schedule XIV for the Thirteenth Expanded Participating Area and on Schedule XVII for the Sixteenth Expanded Participating Area remain the same.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
James C. Vandiver
Area Landman
Lease Department

JCV:GBL:rb
cc: Attached list

Re: San Juan 28-6 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. G. E. Benskin
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Mr. R. N. Richey
Pacific Northwest Pipeline Corporation
720 Simms Building
Albuquerque, New Mexico

Mr. Jack Owens
Pacific Northwest Pipeline Corporation
M & M Building
Houston, Texas

Texas National Petroleum Company
902 South Coast Life Building
Houston 2, Texas

Skelly Oil Company
Post Office Box 1650
Tulsa 2, Oklahoma

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

Mr. R. E. Beamon
346 Esperson Building
Houston 2, Texas

Mr. C. F. Bedford
Stanolind Oil and Gas Company
Post Office Box 1410
Fort Worth, Texas

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
Post Office Box 192
Sistersville, West Virginia

Mr. C. M. Pickrell
Sinclair Oil and Gas Company
Post Office Box 521
Tulsa, Oklahoma

Mr. F. G. Daniell
Mr. Robert C. Youngmun
Pubco Petroleum Corporation
Post Office Box 1419
Albuquerque, New Mexico

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Mr. T. F. Harrington
615 Simms Building
Albuquerque, New Mexico

Mr. H. K. Riddle
2 North 8th Street
Payette, Idaho

Riasan Company
615 Simms Building
Albuquerque, New Mexico

OFFICE COPY El Paso Natural Gas Company

El Paso, Texas

April 6, 1956.

file

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
SIXTEENTH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective February 1, 1956

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates indicated below that four (4) additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation have been completed upon the acreage committed to this Unit. The Participating Area for the Mesaverde formation is expanded accordingly to include these wells as follows:

1. The San Juan 28-6 Unit Well #35 is located 1450' from the North line and 1120' from the East line of Section 30, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on December 10, 1955, and completed on January 9, 1956, at a total depth of 5730'. The Point Lookout section of the Mesaverde formation between the depths of 5490' and 5632' was treated with a sand-water fracturing process on January 7, 1956. The Cliff House section of the Mesaverde formation was likewise treated with a sand-water fracturing process between the depths of 4968' and 5126' on January 8, 1956. After being shut-in for gauge for fourteen (14) days, the well was tested on January 23, 1956, and after a three hour blow-down, gauged an IP of 5190 MCFGPD with an SIPC of 1073# and an SIPT of 1067#. The committed drilling block upon which this well is located is described as the E/2 of Section 30, Township 28 North, Range 6 West, containing 320.00 acres.
2. The San Juan 28-6 Unit Well #49 is located 1840' from the South line and 960' from the West line of Section 16, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on October 7, 1955, and completed on December 31, 1955, at a total

depth of 5804'. The Point Lookout section of the Mesaverde formation was fractured with a sand-water fracturing process. After being shut-in for gauge for nine (9) days, the well was tested on January 9, 1956, and after a three hour blow-down, gauged an IP of 6404 MCFGPD with an SIPC of 1075# and an SIPT of 1076#. The committed drilling block upon which this well is located is described as the W/2 of Section 16, Township 28 North, Range 6 West, containing 320.00 acres. Inasmuch as this drilling block has already been admitted to the Participating Area as an intervening drilling block by the Fourteenth Expansion, effective December 1, 1955, it is not included in this Expansion.

3. The San Juan 28-6 Unit Well #44 is located 915' from the North line and 1675' from the East line of Section 20, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on November 10, 1955, and completed on December 30, 1955, at a total depth of 5672'. The Point Lookout section of the Mesaverde formation, and the Cliff House section of the Mesaverde formation were treated with a sand-water fracturing process. After being shut-in for gauge for seven (7) days, the well was tested on January 6, 1956, and after a three hour blow-down, gauged an IP of 5751 MCFGPD with an SIPC of 1013# and an SIPT of 1015#. The committed drilling block upon which this well is located is described as the E/2 of Section 20, Township 28 North, Range 6 West, containing 320.00 acres. Inasmuch as this drilling block has already been admitted to the Participating Area as an intervening drilling block by the Fifth Expansion, effective December 1, 1954, it is not included in this Expansion.
4. The San Juan 28-6 Unit Well #47 is located 990' from the South line and 990' from the West line of Section 15, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on September 13, 1955, and completed on December 27, 1955, at a total depth of 5791'. The Point Lookout section of the Mesaverde formation was treated with a water fracturing process. After being shut-in for gauge for eight (8) days, the well was tested on January 4, 1956, and after a three hour blow-down, gauged an IP of 5965 MCFGPD with an SIPC of 1106# and an SIPT of 1096#. The committed drilling block upon which this well is located is described as the W/2 of Section 15, Township 28 North, Range 6 West, containing 320.00 acres. Inasmuch as this drilling block has already been admitted to the Participating Area as an intervening drilling block by the Fourteenth Expansion, effective December 1, 1955, it is not included in this Expansion.

The inclusion of the above described wells into the Participating Area of the San Juan 28-6 Unit creates four (4) intervening drilling blocks, described as follows:

1. The E/2 of Section 19, Township 28 North, Range 6 West, containing 320.00 acres.
2. The W/2 of Section 21, Township 28 North, Range 6 West, containing 320.00 acres.
3. The W/2 of Section 22, Township 28 North, Range 6 West, containing 320.00 acres.
4. The W/2 of Section 29, Township 28 North, Range 6 West, containing 320.00 acres.

Under the terms of the Unit Agreement, these intervening drilling blocks are admitted to the Participating Area as of February 1, 1956, the same time as the admission of the San Juan 28-6 Unit Wells #35, #44, #47 and #49.

Attached is Schedule XVII showing the Sixteenth Expanded Participating Area for the Mesaverde formation for the San Juan 28-6 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of February 1, 1956.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin
R. L. Hamblin
Manager
Lease Department

RLH:GBL:rb

cc: Attached list

El Paso Natural Gas Company
MEMPHIS OFFICE 000

RECEIVED 103 PM 1:21
El Paso, Texas
March 21, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
FIFTEENTH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective January 1, 1956

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates indicated below that five (5) additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation have been completed upon the acreage committed to this Unit. The Participating Area for the Mesaverde formation is expanded accordingly to include these wells as follows:

1. The San Juan 28-6 Unit Well #28 is located 1590 feet from the South line and 1120 feet from the West line of Section 18, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on November 12, 1955, and completed on December 7, 1955, at a total depth of 5750 feet. The Point Lookout section of the Mesaverde formation between the depths of 5590 feet and 5720 feet was treated with a water-sand fracturing process on December 5, 1955. The Cliff House section of the Mesaverde formation was likewise treated with a water-sand fracturing process between the depths of 5154 feet and 5234 feet on December 5, 1955. After being shut-in for gauge for fourteen (14) days, the well was tested on December 21, 1955, and after a three hour blow-down gauged an IP of 5727 MCFGPD with an SIPC of 1077# and an SIPT of 1070#. The committed drilling block upon which this well is located is described as the West Half (W/2) of Section 18, Township 28 North, Range 6 West, containing 262.84 acres.

2. The San Juan 28-6 Unit #24 Well is located 1804 feet from the North line and 903 feet from the East line of Section 10, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on October 18, 1955, and completed on November 13, 1955, at a total depth of 5407 feet. The Point Lookout section of the Mesaverde formation from 5198 feet to 5310 feet was treated with a water-sand fracturing process on November 8, 1955. The Cliff House section of the Mesaverde formation was also treated with a water-sand fracturing process between the depths of 4674 feet and 4870 feet on November 9, 1955. After being shut-in for gauge for eighteen (18) days, the well was tested on December 1, 1955 and after a three hour blow-down gauged an IP of 3579 MCFGPD with an SIPC of 1082# and an SIPT of 1065#. The committed drilling block upon which this well is located is described as the East Half (E/2) of Section 10, Township 27 North, Range 6 West, containing 320.00 acres.
3. The San Juan 28-6 Unit #41 Well is located 990 feet from the North line and 990 feet from the East line of Section 34, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on November 6, 1955, and completed on December 7, 1955, at a total depth of 5710 feet. The Point Lookout section of the Mesaverde formation from 5550 feet to 5688 feet was treated with a water-sand fracturing process on December 2, 1955. The Cliff House section of the Mesaverde formation was treated with a water-sand fracturing process from 5016 feet to 5145 feet on December 3, 1955. After being shut-in for gauge for thirteen (13) days the well was tested on December 20, 1955, and after a three hour blow-down, gauged an IP of 4385 MCFGPD, with an SIPC of 1041# and an SIPT of 1035#. The committed drilling block upon which this well is located is described as the East Half (E/2) of Section 34, Township 28 North, Range 6 West, containing 324.63 acres.
4. The San Juan 28-6 Unit #42 Well is located 1750 feet from the South line and 990 feet from the West line of Section 34, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on November 11, 1955, and completed on December 10, 1955, at a total depth of 5790 feet. The Point Lookout section of the Mesaverde formation between the depths of 5636 feet and 5758 feet was treated with a water-sand fracturing process on December 7, 1955. The Cliff House section of the Mesaverde formation was treated with a water-sand fracturing process between the depths of 5092 feet and 5270 feet on December 8, 1955. After being shut-in for gauge for ten (10) days, the well was tested on December 20, 1955, and after a three hour blow-down, gauged an IP of 3937 MCFGPD with an SIPC of 1069# and an SIPT of 1067#. The committed drilling block upon which this well is located is described as the West Half (W/2) of Section 34, Township 28 North, Range 6 West, containing 324.69 acres.

5. The San Juan 28-6 Unit Well #34 is located 890 feet from the North line and 890 feet from the East line of Section 32, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on August 3, 1955, and completed on December 9, 1955, at a total depth of 5575 feet. The Point Lookout section of the Mesaverde formation between the depths of 5424 feet and 5548 feet was treated with a water-sand fracturing process on December 6, 1955. The Cliff House section of the Mesaverde formation was treated with a water-sand fracturing process between the depths of 4895 feet and 5024 feet on December 7, 1955. After being shut-in for gauge for eleven (11) days the well was tested on December 20, 1955, and after a three hour blow-down, gauged an IP OF 4921 MCFGPD, with an SIPC of 1073# and an SIPT of 1068#. The committed drilling block upon which this well is located is described as the East (E/2) of Section 32, Township 28 North, Range 6 West, containing 325.08 acres. Inasmuch as this drilling block has already been admitted to the Participating Area as an intervening drilling block by the Tenth (10th) Expansion, effective August 1, 1955, it is not included in this expansion.

The inclusion of these wells creates three intervening drilling blocks, which are described as follows: the W/2 of Section 19, Township 28 North, Range 6 West, containing 262.76 acres; the W/2 of Section 3, Township 27 North, Range 6 West, containing 320.84 acres; the E/2 of Section 3, Township 27 North, Range 6 West, containing 320.28 acres. Under the terms of the Unit Agreement, these drilling blocks are admitted to the Participating Area as of January 1, 1956, the same time as the admission of the San Juan 28-6 Unit Wells #28, #24, #34, #41, and #42.

Attached is Schedule XVI showing the Fifteenth Expanded Participating Area for the Mesaverde formation for the San Juan 28-6 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of January 1, 1956.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



R. L. Hamblin

Manager

Lease Department

RLH:GBL:rb

cc: Attached list

543
El Paso Natural Gas Company

El Paso, Texas

February 27, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
FOURTEENTH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective December 1, 1955

Gentlemen:

Please refer to our letter dated February 13, 1956, relative to the Fourteenth Expanded Participating Area for the Mesaverde formation, for the above captioned unit, and to the schedule thereto.

Herewith attached are Pages 42 through 47 of the schedule which it is requested to be substituted for Pages 42 through 45 of the schedule. Please destroy the sheets to be deleted from the schedule as they are in error.

We sincerely regret any inconvenience caused by this matter, and appreciate your cooperation.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By *James C. Vandiver*
James C. Vandiver
Office Landman
Lease Department

JCV:GBL:pb
Enclosures

643
El Paso Natural Gas Company

El Paso, Texas

February 13, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
FOURTEENTH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective December 1, 1955

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates indicated below that four (4) additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation have been completed upon the acreage committed to this Unit. The Participating Area for the Mesaverde formation is expanded accordingly to include these wells as follows:

1. The San Juan Unit Well #48-16 is located 790' from the North line and 1650' from the East line of Section 16, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on October 1, 1955, and completed on October 25, 1955, at a total depth of 5930'. The Point Lookout section of the Mesaverde formation between the depths of 5878' - 5918' was treated with a water-sand fracturing process on October 25, 1955. The Cliff House section of the Mesaverde formation was likewise fractured with a water-sand fracturing process between the depths of 5378' - 5474' on October 25, 1955. After being shut in for gauge for seven (7) days, the well was tested on November 1, 1955, and after a three hour blow-down, gauged an IP of 9301 MCFGPD, with an SIPC of 1061# and an SIPT of 1061#. The committed drilling block upon which this well is located is described as the E/2 of Section 16, Township 28 North, Range 6 West, containing 320.00 acres.

2. The San Juan 28-6 Unit #30 well is located 890' from the North line and 1090' from the East line of Section 28, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on October 19, 1955, and completed on November 9, 1955, at a total depth of 5620'. The Point Lookout section of the Mesaverde formation was treated with a water-sand fracturing process from 5470' - 5480', 5526' - 5556', 5564' - 5578' on November 7, 1955. The Cliff House section of the Mesaverde formation from 4964' - 4972', 4986' - 5000', 5050' - 5084' was also treated with a water-sand fracturing process on November 8, 1955. After being shut in for gauge for twelve (12) days, the well was tested on November 21, 1955, and after a three hour blow-down, gauged an IP of 5637 MCFGPD with an SIPC of 1087# and an SIPT of 1081#. The committed drilling block upon which this well is located is described as the E/2 of Section 28, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres. Inasmuch as this drilling block has already been admitted to the Participating Area as an intervening drilling block by the Thirteenth Expansion, effective November 1, 1955, it is not included in this expansion.
3. The San Juan 28-6 Unit #36 well is located 800' from the North line and 1625' from the East line of Section 6, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on October 15, 1955, and completed on November 4, 1955, at a total depth of 5240'. The Point Lookout section of the Mesaverde formation between the depths of 5054' - 5068', 5122' - 5150', 5184' - 5208' was treated with a water-sand fracturing process on October 31, 1955. The Cliff House section of the Mesaverde formation was also treated with a water-sand fracturing process from 4500' - 4514', 4556' - 4572', 4596' - 4617', 4642' - 4650', on November 1, 1955. After being shut-in for gauge for seventeen (17) days, the well was tested on November 21, 1955, and after a three hour blow-down, gauged an IP of 5100 MCFGPD, with an SIPC of 1084# and an SIPT of 1090#. The committed drilling block upon which this well is located is the E/2 of Section 6, Township 27 North, Range 6 West, N.M.P.M., containing 320.48 acres.
4. The San Juan 28-6 Unit #39 well is located 1055' from the South line and 1465' from the West line of Section 5, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on October 17, 1955 and completed on November 9, 1955, at a total depth of 5531'. The Point Lookout section of the Mesaverde formation from 5375' - 5393', 5432' - 5454', 5490' - 5506' was treated with a water-sand fracturing process on November 6, 1955. The Cliff House section of the Mesaverde formation was also treated with a water-sand fracturing process from 4807' - 4827', 4840' - 4852', 4896' - 4940' on November 7, 1955. After being shut-in for gauge for eight (8) days, the well was tested on November 17, 1955, and after a three hour blow-down, gauged an IP of 5100 MCFGPD, with an SIPC of

1063# and an SIPT of 1055#. The committed drilling block upon which this well is located is described as the W/2 of Section 5, Township 27 North, Range 6 West, containing 320.72 acres.

The inclusion of these wells creates three intervening drilling blocks. They are described as follows: the W/2 of Section 16, Township 28 North, Range 6 West, containing 320.00 acres; the W/2 of Section 15, Township 28 North, Range 6 West, containing 320.00 acres; the E/2 of Section 21, Township 28 North, Range 6 West, containing 320.00 acres. Under the terms of the Unit Agreement these drilling blocks are admitted to the Participating Area as of December 1, 1955, the same time as the admission of the San Juan 28-6 Unit wells #48-16, #30, #36 and #39.

Attached is Schedule XV showing the Fourteenth Expanded Participating Area for the Mesaverde formation for the San Juan 28-6 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of December 1, 1955.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin
R. L. Hamblin, Manager
Lease Department

RLH:GBL:pb
cc: Attached List



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 6721
Roswell, New Mexico

February 8, 1956

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

Attention: Mr. R. L. Hamblin

Gentlemen:

Your plan of development dated December 29, 1955, for the San Juan 28-6 Unit, New Mexico, for the calendar year 1956, has been approved on this date subject to like approval by the appropriate State of New Mexico officials.

One approved copy of the plan is enclosed.

Very truly yours,


JOHN A. ANDERSON
Regional Oil & Gas Supervisor

Enclosure

Copy to: Wash. (w/copy of plan)
Comm. of Public Lands, Santa Fe (Ltr. only)
Oil Cons. Commission, Santa Fe (Ltr. only) ✓

OIL CONSERVATION

OIL CONSERVATION COMMISSION

P. O. BOX 871

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

January 30, 1956

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

Attention: Mr. R. L. Hamblin

file
**Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
1956 Plan of Development**

Gentlemen:

This is to advise that the Plan of Development for calendar year 1956 for the San Juan 28-6 Unit Area, dated December 29, 1955, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

**W. B. Macey
Secretary-Director**

WBM:jh

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

**C
O
P
Y**

543
January 13, 1956

El Paso Natural Gas Company
El Paso, Texas

File
Re: (San Juan 28-6 Unit,
#14-08-001-1051,
Rio Arriba County, N. Mex.
1956 Plan of Development)

Gentlemen:

We are returning one copy of the San Juan 28-6 Unit Plan of Development for the Calendar Year 1956, dated December 29, 1955, which was approved by the Commissioner of Public Lands January 13, 1956, subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Very truly yours,

E. S. WALKER
Commissioner of Public Lands

MMR/m
enc: 1

cc: USGS-Roswell
OCC-Santa Fe

543

El Paso Natural Gas Company

El Paso, Texas

January 5, 1956

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
14-08-001-1051
Rio Arriba County, New Mexico
Thirteenth Expanded Participating Area
Mesaverde Formation
Effective November 1, 1955

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates indicated below that six (6) additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation have been completed upon the acreage committed to this Unit. The Participating Area for the Mesaverde formation is expanded accordingly to include these wells as follows:

1. The San Juan 28-6 Unit Well #15 is located 990' from the South line and 990' from the West line of Section 10, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on August 27, 1955, and completed on September 19, 1955, at a total depth of 5806'. Casing was set at a total depth of 5740' and the well was completed natural. After being shut-in for gauge for fifteen (15) days, the well was tested on October 4, 1955, and after a three hour blow-down, gauged an IP of 9584 MCFGPD, with an SIPC of 1037# and an SIPT of 1037#. The committed drilling block upon which this well is located is described as the S/2 (All) of Section 10, Township 28 North, Range 6 West, containing 283.40 acres.

2. The San Juan 28-6 Unit #25 Well is located 890' from the South line and 990' from the West line of Section 10, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on August 26, 1955, and completed on October 15, 1955, at a total depth of 5540'. The Point Lookout section of the Mesaverde formation was treated with a water-sand fracturing process from 5439' to 5483' and 5348' to 5404' on September 29 and 30, 1955. The Cliff House section of the Mesaverde formation from 4814' to 4976' was also treated with a water-sand fracturing process on October 1, 1955. After being shut-in for gauge for twelve (12) days, the well was tested on October 27, 1955, and after a three hour blow-down, gauged an IP of 3042 MCFGPD, with an SIPC of 1037# and an SIPT of 1025#. The committed drilling block upon which this well is located is described as the W/2 of Section 10, Township 27 North, Range 6 West, N.M.P.M., containing 320.00 acres.
3. The San Juan 28-6 Unit #29 Well is located 990' from the North line and 990' from the East line of Section 27, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on September 24, 1955, and completed on October 16, 1955, at a total depth of 5688'. The Point Lookout section of the Mesaverde formation between the depths of 5568' to 5674' was treated with a water-sand fracturing process on October 13, 1955. The Cliff House section of the Mesaverde formation was also treated with a water-sand fracturing process from 5124' to 5212' on October 14, 1955. After being shut-in for gauge for ten (10) days, the well was tested on October 26, 1955, and after a three hour blow-down, gauged an IP of 5279 MCFGPD, with an SIPC of 1084# and an SIPT of 1079#. The committed drilling block upon which this well is located is the E/2 of Section 27, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres. The intervening drilling block upon which this well is located was included in the San Juan 28-6 Unit Fifth Expanded Participating Area for the Mesaverde formation, effective December 1, 1954, and is not included in this expansion.
4. The San Juan 28-6 Unit #31 Well is located 990' from the South line and 990' from the West line of Section 28, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on August 27, 1955, and completed on September 21, 1955, at a total depth of 5725'. The Point Lookout section of the Mesaverde formation from 5639' to 5652', from 5674' to 5692', and from 5550' to 5600' was treated with a water-sand fracturing process on September 17, 1955 and on September 18, 1955. The Cliff House section of the Mesaverde formation was

also treated with a water-sand fracturing process from 5046' to 5183' on September 19, 1955. After being shut-in for gauge for thirteen (13) days, the well was tested on October 4, 1955, and after a three hour blow-down, gauged an IP of 5639 MCFGPD, with an SIPC of 1060# and an SIPT of 1055#. The committed drilling block upon which this well is located is described as the W/2 of Section 28, Township 28 North, Range 6 West, containing 320.00 acres.

5. The San Juan 28-6 Unit #37 Well is located 1650' from the South line and 1650' from the West line of Section 6, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on September 20, 1955, and was completed on October 12, 1955, at a total depth of 5165'. The Point Lookout section of the Mesaverde formation from 4970' to 5100' was treated with a water-sand fracturing process on October 9, 1955. The Cliff House section of the Mesaverde formation was also treated with a water-sand fracturing process from 4454' to 4584' on October 10, 1955. After being shut-in for gauge for nine (9) days, the well was tested on October 21, 1955, and after a three hour blow-down, gauged an IP of 4742 MCFGPD, with an SIPC of 1095# and an SIPT of 1092#. The committed drilling block upon which this well is located is described as the W/2 of Section 6, Township 27 North, Range 6 West, N.M.P.M., containing 314.17 acres.
6. The San Juan 28-6 Unit #38 Well is located 1150' from the North line and 800' from the East line of Section 5, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on September 22, 1955 and completed on October 15, 1955, at a total depth of 5775'. The Point Lookout section of the Mesaverde formation from 5600' to 5666', and from 5692' to 5740' was treated with a water-sand fracturing process on October 12, 1955. The Cliff House section of the Mesaverde formation was also treated with a water-sand fracturing process from 5050' to 5082', from 5092' to 5132', and from 5144' to 5188' on October 13, 1955. After being shut-in for gauge for eleven (11) days, the well was tested on October 26, 1955, and after a three hour blow-down, gauged an IP of 3579 MCFGPD, with an SIPC of 1082# and an SIPT of 1070#. The committed drilling block upon which this well is located is described as the E/2 of Section 5, Township 27 North, Range 6 West, N.M.P.M., containing 320.88 acres.

The inclusion of these wells creates four (4) intervening drilling blocks. They are described as follows: the S/2 (all) of Section 9, Township 28 North, Range 6 West, containing 284.20 acres; the S/2 (all) of Section 11, Township 28 North, Range 6 West, containing 282.80 acres; the E/2 of Section 22, Township 28 North, Range 6 West, containing 320.00 acres; the E/2 of Section 28, Township 28 North, Range 6 West, containing 320.00 acres. Under the terms of the Unit Agreement these drilling blocks are

admitted to the Participating Area as of November 1, 1955, the same time as the admission of the San Juan 28-6 Unit Wells #15, 25, 29, 31, 37 and 38. Drilling must be commenced upon these intervening drilling blocks by November 1, 1956.

Attached is Schedule XIV showing the Thirteenth Expanded Participating Area for the Mesaverde formation for the San Juan 28-6 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of November 1, 1955.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin
R. L. Hamblin
Manager
Lease Department

RLH:GBL:rb
cc: Attached list

El Paso Natural Gas Company

El Paso, Texas
December 29, 1955

PLEASE RETURN TO
LEASE DEPARTMENT

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

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit, #14-08-001-1051
Rio Arriba County, New Mexico
**PLAN OF DEVELOPMENT FOR THE PERIOD
FROM JANUARY 1, 1956 TO DECEMBER 31, 1956**

Gentlemen:

By letter of July 21, 1954, El Paso Natural Gas Company set forth its Drilling Program for the above captioned unit providing for the drilling of eleven (11) wells in the Mesaverde Formation between the dates of July 1, 1954 to July 1, 1955. Subsequently on June 23, 1955, an additional program was set forth providing for the drilling of thirty-five (35) wells during the period from July 1, 1955 through December 31, 1955. One (1) of the wells located in the S/2 of Section 10, Township 28 North, Range 6 West originally listed on the program for the first half of 1955 was not drilled and was put on the program for the last half of 1955.

Of the forty-five (45) wells on the 1955 Drilling Program, thirty-seven (37) have been drilled, four (4) are at this time being drilled, one (1) was carried forward to the 1956 Drilling Program (to be located in the E/2 of Section 31, Township 28 North, Range 6 West), and three (3) wells located on leases in the unit belonging to Pacific Northwest Pipeline Corporation were, at their written request of December 6, 1955, deleted from the 1955 Drilling Program. The proposed locations of the three (3) wells not drilled are:

E/2 Section 35, Township 28 North, Range 6 West.
W/2 Section 36, Township 28 North, Range 6 West.
E/2 Section 3, Township 27 North, Range 6 West.

To date thirty-three (33) commercial wells in the San Juan 28-6 Unit have been admitted to the Participating Area, and nineteen (19) wells have been tied into our gathering system. Total production from the unit from January 1, 1955 through November 30, 1955 was 397,287 MCF, and the value from the sale of natural gas, propane, butane, and condensates for the eleven month period was \$41,149.00.

Pursuant to Section 10 of the above numbered Unit Agreement, El Paso Natural Gas Company, as Unit Operator, herewith submits its proposed Drilling Program for the period from January 1, 1956 to December 31, 1956.

As Unit Operator we have canvassed all working interest owners in the unit, and the proposed drilling program covers all drilling requests that we have received.

The proposed wells are as follows:

	<u>DRILLING BLOCK</u>	<u>FORMATION</u>
W/2	Section 7 T-27-N, R-6-W	Mesaverde
*W/2	Section 8 T-27-N, R-6-W	Mesaverde
*W/2	Section 9 T-28-N, R-6-W	Mesaverde
*W/2	Section 11 T-28-N, R-6-W	Mesaverde
*W/2	Section 13 T-28-N, R-6-W	Mesaverde
*W/2	Section 14 T-28-N, R-6-W	Mesaverde
W/2	Section 14 T-27-N, R-6-W	Mesaverde
*W/2	Section 19 T-28-N, R-6-W	Mesaverde
*E/2	Section 21 T-28-N, R-6-W	Mesaverde
*W/2	Section 21 T-28-N, R-6-W	Mesaverde
*E/2	Section 22 T-28-N, R-6-W	Mesaverde
*W/2	Section 22 T-28-N, R-6-W	Mesaverde
*E/2	Section 23 T-28-N, R-6-W	Mesaverde
*E/2	Section 31 T-28-N, R-6-W	Mesaverde

* Intervening drilling blocks necessary to be drilled in 1956.

El Paso Natural Gas Company, as Unit Operator, intends to drill all of the above mentioned wells to the base of the Mesaverde Formation using rotary tools. Surface casing of 10-3/4" will be set to approximately 150' below the surface and an intermediate string of 7-5/8" casing will be set through the Pictured Cliffs Formation to a depth of approximately 3200'. From this point a 5-1/2" production string will be set through the Mesaverde Formation and the casing in the Mesaverde Formation will then be selectively perforated and the Mesaverde Formation will be subjected to a hydraulic fracturing process. Mud will be used in setting the intermediate string of casing, and the hole below the intermediate string will be drilled in with gas. Due care will be taken to protect all horizons.

All well locations will be in either the NE/4 or the SW/4 of the sections.

If this drilling program is acceptable, please signify your approval of the drilling as required under Section 10 of the Unit Agreement in the space provided below. Please return an approved copy to El Paso Natural Gas Company, Unit Operator.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin
R. L. Hamblin
Manager
Lease Department

APPROVED: _____
Director, United States Geological Survey

DATE: _____

Subject to like approval by the appropriate State officials.

APPROVED: _____
Commissioner of Public Lands

DATE: _____

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED: W. B. Macey
Oil Conservation Commission

DATE: JAN 30 1956

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

Re: San Juan 28-6 Unit

Copies of the foregoing letter have been sent to the following Working Interest Owners:

Mr. G. E. Benskin
Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma

Texas National Petroleum Company
902 South Coast Life Building
Houston 2, Texas

Skelly Oil Company
Post Office Box 1650
Tulsa 2, Oklahoma

Mr. C. M. Pickrell
Sinclair Oil and Gas Company
Post Office Box 521
Tulsa, Oklahoma

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
Post Office Box 192
Sistersville, West Virginia

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

Mr. C. F. Bedford
Stanolind Oil and Gas Company
Post Office Box 1410
Fort Worth, Texas

Riasan Company
615 Simms Building
Albuquerque, New Mexico

Mr. Jack Martin
Delhi-Taylor Oil Corporation
823 Corrigan Tower
Dallas 1, Texas

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Mr. T. F. Harrington
615 Simms Building
Albuquerque, New Mexico

Mr. R. N. Richey
Pacific Northwest Pipeline Corporation
720 Simms Building
Albuquerque, New Mexico

Mr. Jack Owens
Pacific Northwest Pipeline Corporation
M & M Building
Houston, Texas

Mr. H. K. Riddle
Post Office Box 1055
Albuquerque, New Mexico

Mr. R. E. Beamon
346 Esperson Building
Houston 2, Texas

Mr. F. G. Daniell
Mr. Robert G. Youngmun
Pubco Development, Inc.
Post Office Box 1419
Albuquerque, New Mexico

El Paso Natural Gas Company

El Paso, Texas

December 1, 1955

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file

Re: San Juan 28-6 Unit
14-08-001-1051
Rio Arriba County, New Mexico
Twelfth Expanded Participating Area
Mesaverde Formation
Effective October 1, 1955

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, # 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates indicated below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon the acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include these wells as follows:

1. The San Juan 28-6 Unit # 46 Well is located 990' from the North line, and 1650' from the East line of Section 15, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on August 14, 1955, and completed on September 11, 1955, at a total depth of 5895'. The Mesaverde Formation was treated with a fluid fracturing process at depths from 5332' to 5882'. After being shut in for gauge for eight (8) days the well was tested on September 19, 1955, and after a three hour blow-down gauged an IP of 12,283 MCFGPD, with an SIPC of 1058# and an SIPT of 1050#. The committed drilling block upon which this well is located is described as the E/2 of Section 15, Township 28 North, Range 6 West, containing 320.00 acres.

2. The San Juan 28-6 Unit # 32 Well is located 990' from the North line, and 990' from the East line of Section 33, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on July 13, 1955, and completed on August 1, 1955, at a total depth of 5730'. The Cliff House section of the Mesaverde Formation between 5000' and 5190' was treated with a sand-oil fracturing process on July 28, 1955. The Point Lookout section of the Mesaverde Formation between 5390' and 5730' was also treated with a sand-oil fracturing process on July 31, 1955. After being shut in for gauge for forty three (43) days the well was tested on September 13, 1955, and after a three hour blow-down gauged an IP of 1948 MCFGPD with an SIPC of 1094# and an SIPT of 1076#. The committed drilling block upon which this well is located is described as the E/2 of Section 33, Township 28 North, Range 6 West, N.M.P.M., containing 325.12 acres.
3. The San Juan 28-6 Unit # 40 Well is located 2100' from the North line, and 1675' from the East line of Section 4, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on July 29, 1955, and completed on August 19, 1955, at a total depth of 5355'. The Cliff House section of the Mesaverde Formation between 4595' and 4800' was tested with a sand-oil fracturing process on August 15, 1955. The Point Lookout section of the Mesaverde Formation between 5093' and 5355' was also treated with a sand-oil fracturing process on August 18, 1955. After being shut in for gauge for twenty five (25) days the well was tested on September 13, 1955, and after a three hour blow-down gauged an IP of 2148 MCFGPD with an SIPC of 1102# and an SIPT of 907#. The committed drilling block upon which this well is located is described as the E/2 of Section 4, Township 27 North, Range 6 West, N.M.P.M., containing 321.08 acres.

The inclusion of these wells creates one intervening drilling block. This intervening drilling block is described as the W/2 of Section 14, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement this drilling block is admitted to the Participating Area as of October 1, 1955, the same time of admission of the San Juan 28-6 Well # 46. A well must be commenced on this intervening drilling block by October 1, 1956.


Attached is Schedule XIII showing the Twelfth Expanded Participating Area for the Mesaverde Formation for the San Juan 28-6 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of October 1, 1955.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By


R. L. Hamblin
Manager
Lease Department

RLH:GBL:rb

cc: Attached list

El Paso Natural Gas Company

El Paso, Texas

October 18, 1955

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

543
file

Re: (San Juan 28-6 Unit)
14-08-001-1051
Rio Arriba County, New Mexico
Eleventh Expanded Participating Area
Mesaverde Formation
Effective September 1, 1955

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, # 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date indicated below that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon the acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

El Paso Natural Gas Company's San Juan 28-6 Unit # 43 Well is located 790' from the North line and 820' from the East line of Section 7, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on July 7, 1955, and completed on July 24, 1955, at a total depth of 5180'. The Cliff House Section of the Mesaverde Formation between 4420' and 4620' was treated with a sand-oil fracturing process on July 21, 1955. The Point Lookout Section of the Mesaverde Formation between 4890' and 5180' was also treated with a sand-oil fracturing process on July 23, 1955. After being shut-in for gauge for sixteen (16) days, the well was tested on August 9, 1955, and after a three hour blow-down gauged an IP of 3758 MCFGPD, with an SIPC of 1113# and an SIPT of 1113#. The committed drilling block upon which this well is located is described as the E/2 of Section 7, Township 27 North, Range 6 West, N.M.P.M., containing 320 acres.

The inclusion of this well creates one intervening drilling block. This intervening drilling block is described as the W/2 of Section 8, Township 27 North, Range 6 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement this drilling block is admitted to the Participating Area as of September 1, 1955, the same time of admission of the San Juan 28-6 Well # 43. A well must be commenced on this intervening drilling block by September 1, 1956.

Attached is Schedule XII showing the Eleventh Expanded Participating Area for the Mesaverde Formation for the San Juan 28-6 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of September 1, 1955.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



R. L. Hamblin

Manager

Lease Department

RLH:GBL:eb

cc: Attached List

El Paso Natural Gas Company

El Paso, Texas

September 7, 1955

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

file

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: (San Juan 28-6 Unit)
14-08-001-1051
Rio Arriba County, New Mexico
Tenth Expanded Participating Area
Mesaverde Formation
Effective August 1, 1955

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, # 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date indicated below that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon the acreage committed to this Unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well as follows:

El Paso Natural Gas Company's San Juan 28-6 Unit # 33 Well is located 1050' from the South line and 1750' from the West line of Section 33, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on June 19, 1955, and completed on July 11, 1955, at a total depth of 5760'. The Cliff House Section of the Mesaverde Formation between 5010' and 5200' was treated with a sand-oil fracturing process on July 7, 1955. The Point Lookout Section of the Mesaverde Formation between 5435' and 5760' was also treated with a sand-oil fracturing process on July 10, 1955. After being shut-in for gauge for eight (8) days, the well was tested on July 19, 1955, and after a three hour blow-down, gauged an IP of 1583 MCFGPD, with an SIPC of 1069# and an SIPT of 1050#. The committed drilling block upon which this well is located is described as the W/2 of Section 33, Township 28 North, Range 6 West, N.M.P.M., containing 325.59 acres.

Pacific Northwest Pipeline Corporation's San Juan 28-6 Unit Well # 45-26 is being admitted to the San Juan 28-6 Unit also as of August 1, 1955, but inasmuch as it was drilled on an intervening drilling block which had already been admitted to the San Juan 28-6 Unit Participating Area (the East Half (E/2), Section 26) the well is not included in this expansion. Notification of its completion and addition to the Unit was promulgated by a "Notice of completion of additional well" letter dated August 26, 1955.

The inclusion of these wells creates two intervening drilling blocks. These intervening drilling blocks are described as the E/2 of Section 32, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres, and the E/2 of Section 23, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement these drilling blocks are admitted to the Participating Area as of August 1, 1955, the same time of admission of the San Juan 28-6 Well #33, and the San Juan 28-6 Unit Well # 45-26. Wells must be commenced on these intervening drilling blocks by August 1, 1956.

Attached is Schedule XI showing the Tenth Expanded Participating Area for the Mesaverde Formation for the San Juan 28-6 Unit Area. This describes the Expanded Participating Area, and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Expanded Participating Area will become effective as of August 1, 1955.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R L Hamblin
R. L. Hamblin
Manager
Lease Department

RLH:GBL:rb
cc: Attached list

El Paso Natural Gas Company

El Paso, Texas

August 25, 1955

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

file

Commissioner of Public Lands of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit No. 14-08-001-1051
Rio Arriba County, New Mexico
Non-Commercial Well (Well #26)
Mesaverde Formation
Determined on July 19, 1955

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, No. 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on July 19, 1955, that the following described well was not capable of producing unitized substances in paying quantities from the Mesaverde Formation.

The San Juan 28-6 #26 Well, located 994' from the South line and 1652' from the West line of Section 1, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on June 7, 1955 and completed on July 7, 1955, at a total depth of 5605' in the Mesaverde Formation. The Cliff House Section of the Mesaverde Formation between 4857' and 5075' was treated with a sand-oil fracturing process on June 24, 1955. The Point Lookout Section of the Mesaverde Formation between 5179' and 5605' was also treated with a sand-oil fracturing process on June 27, 1955. After being shut-in for gauge for 12 days, the well was tested on July 19, 1955, and after a three hour blow-down gauged an IP of 1191 MCFGPD with an SIPC of 1072# and an SIPT of 1063#. The committed drilling block upon which this well is located is described as the W/2 of Section 1, Township 27 North, Range 6 West, N.M.P.M., and consists of 320.32 acres.

Inasmuch as this determination needs no official approval no provision is made therefor, and in the absence of disapproval, this well will continue to be

considered non-commercial.

Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R L Hamblin
R. L. Hamblin
Manager
Lease Department

RLH/GBL/eb

cc: Attached List

El Paso Natural Gas Company

El Paso, Texas

August 1, 1955

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
14-08-001-1051
Rio Arriba County, New Mexico
Ninth Expanded Participating Area
Mesaverde Formation
Effective July 1, 1955

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, # 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates indicated below that two additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon the acreage committed to this unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include these wells, as follows:

El Paso Natural Gas Company's San Juan 28-6 Unit # 11 Well is located 940' from the North line and 1100' from the East line of Section 9, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on September 10, 1954, and completed on October 5, 1954 at a total depth of 5363'. The Cliff House section of the Mesaverde Formation between 4476' and 4753' was treated with a sand-oil fracturing process on September 29, 1954. The Point Lookout section of the Mesaverde Formation between 5118' and 5363' was also treated with a sand-oil fracturing process on October 5, 1954. After being shut-in for gauge for thirty-four (34) days, the well was tested on November 8, 1954, and after a three hour blow-down, gauged an IP of 1020 MCFGPD. The well was bridged and subsequently was re-tested on November 30, 1954. On this test it had a potential of 1707 MCF/D with an SIPC of 1057# and an SIPT of 1018#. The well was worked over, and after being shut-in for gauge for eight (8) days, was again re-tested

on June 8, 1955, and gauged an IP of 1767 MCF/D, with an SIPC of 989# and an SIPT of 978#. The committed drilling block upon which this well is located is described as the East Half (E/2) of Section 9, Township 27 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, containing 320 acres, more or less.

El Paso Natural Gas Company's San Juan 28-6 Unit # 27 Well is located 995' from the North line and 990' from the East line of Section 15, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on May 19, 1955, and completed on June 5, 1955 at a total depth of 5570'. The Cliff House section of the Mesaverde Formation between 4810' and 5020' was treated with a sand-oil fracturing process on May 31, 1955. The Point Lookout section of the Mesaverde Formation between 5334' and 5570' was also treated with a sand-oil fracturing process on June 3, 1955. After being shut-in for gauge for sixteen (16) days, the well was tested on June 20, 1955, and after a three hour blow-down, gauged an IP of 3490 MCF/GPD with an SIPC of 1091# and an SIPT of 1080#. The committed drilling block upon which this well is located is described as the East Half (E/2) of Section 15, Township 27 North, Range 6 West, N.M.P.M., containing 320.00 acres.

The inclusion of these wells in the Mesaverde Participating Area creates no intervening drilling blocks.

Attached is Schedule X showing the Ninth Expanded Participating Area for the Mesaverde Formation of the San Juan 28-6 Unit Area. This describes the expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tracts. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval this expanded participating area will become effective as of July 1, 1955.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
R. L. Hamblin, Manager
Lease Department

RLH:GBL:rb

cc: Attached list

El Paso Natural Gas Company

El Paso, Texas

July 20, 1955

File

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

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit Area
Rio Arriba County, New Mexico
Drilling Program for Balance
of Calendar Year, 1955

Gentlemen:

This is to advise that the drilling program for the balance of the calendar year, 1955, for the San Juan 28-6 Unit has been approved as follows:

1. Approved by the United States Geological Survey on June 28, 1955.
2. Approved by the Oil Conservation Commission of the State of New Mexico on July 6, 1955.
3. Approved by the Commissioner of Public Lands of the State of New Mexico on July 8, 1955.

dm

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin
R. L. Hamblin,
Manager
Lease Department

RECEIVED
JUL 11 AM 10:40

July 8, 1955

file

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

Re: (San Juan 28-6 Unit Area)
Rio Arriba County, New Mexico
Drilling Program for Balance
of Calendar Year 1955

Gentlemen:

We are enclosing one copy of the above designated plan which was approved by the Commissioner of Public Lands July 8, 1955. Subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

Very truly yours,

E. S. WALKER
Commissioner of Public Lands

Encl.
cc: UEGS - Roswell
NMOCC
MMr

asw

C
O
P
Y

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

July 6, 1955

File

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

Attention: Mr. R. L. Hamblin

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
Plan of Development July 1, 1955
to December 31, 1955

Gentlemen:

This is to advise that the Plan of Development for the San Juan 28-6 Unit, dated June 23, 1955, and covering the period from July 1, 1955 through December 31, 1955, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan, which provides for the drilling of 35 Mesaverde wells during the six month period, is returned herewith.

Very truly yours,

W. B. Macey

W. B. Macey
Secretary-Director

WBM:jh

cc: USGS - Roswell

Commissioner of Public Lands, Santa Fe

C
O
P
Y

El Paso Natural Gas Company

El Paso, Texas

June 29, 1955

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: (San Juan 28-6 Unit)
14-08-001-1051
Rio Arriba County, New Mexico
Eighth Expanded Participating Area
Mesaverde Formation
Effective June 1, 1955

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, # 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates indicated below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon the acreage committed to this unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include these wells, as follows:

El Paso Natural Gas Company's San Juan 28-6 Unit # 20 Well is located 1600' from the South line and 900' from the West line of Section 12, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on April 7, 1955, and completed on April 30, 1955, at a total depth of 5810'. The Cliff House section of the Mesaverde Formation between 5185' and 5310' was treated with a sand-oil fracturing process on April 26, 1955. The Point Lookout section of the Mesaverde Formation between 5537' and 5810' was also treated with a sand-oil fracturing process on April 29, 1955. After being shut-in for 19 days, the well was tested on May 11, 1955, and after a three hour blow-down, gauged an IP of 3758 MCFGPD with an SIPC of 1068# and an SIPT of 953#. The committed drilling block upon which this well is located is described as the S/2 of Section 12, Township 28 North, Range 6 West, N.M.P.M., containing 282.48 acres.

El Paso Natural Gas Company's San Juan 28-6 Unit # 22 Well is located 1650' from the North line and 990' from the East line of Section 8, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on May 3, 1955 and completed on May 17, 1955 at a total depth of 5500'. The Cliff House Section of the Mesaverde Formation between 4750' and 4930' was treated with a sand-oil fracturing process on May 14, 1955. The Point Lookout Section of the Mesaverde Formation between 5208' and 5500' was also treated with a sand-oil fracturing process on May 17, 1955. After being shut-in for 9 days, the well was tested on May 26, 1955, and after a three hour blow-down, gauged an IP of 2416 MCFGPD with an SIPC of 1107# and an SIPT of 1096#. The committed drilling block upon which this well is located is described as the E/2 of Section 8, Township 27 North, Range 6 West, N.M.P.M., containing 320.00 acres.

El Paso Natural Gas Company's San Juan 28-6 Unit # 23 Well is located 1090' from the South line and 1100' from the West line of Section 9, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on April 13, 1955, and completed on May 1, 1955 at a total depth of 5500'. The Cliff House Section of the Mesaverde Formation between 4740' and 4925' was treated with a sand-oil fracturing process on April 26, 1955. The Point Lookout Section of the Mesaverde Formation between 5142' and 5500' was also treated with a sand-oil fracturing process on April 30, 1955. After being shut-in for 25 days, the well was tested on May 26, 1955, and after a three hour blow-down, gauged an IP of 3132 MCFGPD with an SIPC of 1081# and an SIPT of 1096#. The committed drilling block upon which this well is located is described as the W/2 of Section 9, Township 27 North, Range 6 West, N.M.P.M., containing 320.00 acres.

The inclusion of these wells in the Mesaverde Participating Area creates one intervening drilling block between the San Juan 28-6 Unit Well # 20 and the San Juan 28-6 Unit Well # 18. This intervening drilling block is described as the W/2 of Section 13, Township 28 North, Range 6 West, N.M.P.M., and contains 320.00 acres. Under the terms of the Unit Agreement this drilling block is admitted to the Participating Area as of June 1, 1955, the same time of admission of the San Juan 28-6 Unit Well # 20. A well must be commenced on this intervening drilling block by June 1, 1956.

Attached is Schedule IX showing the Eighth Expanded Participating Area for the Mesaverde Formation of the San Juan 28-6 Unit Area. This describes the expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tracts. Inasmuch as this needs no official ap-

proval, no provision being made therefor, in absence of disapproval this expanded participating area will become effective as of June 1, 1955.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R L Hamblin
R. L. Hamblin
Manager
Lease Department

RLH:GBL:rb
cc: Attached list



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 6721
Roswell, New Mexico

June 28, 1955

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

Gentlemen:

The plan of development dated June 23, 1955, for the San Juan 28-6 unit area, New Mexico, No. 14-08-001-1051, has been approved on this date, subject to like approval by the appropriate State officials. The plan provides for the drilling of 35 Mesaverde wells during the six month period ending December 31, 1955.

One approved copy of said plan is returned herewith.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Cons. Div., Wash. (w/1 copy of plan)
✓ NMOCC, Santa Fe (ltr only)
Commissioner of Public Lands, Santa Fe (ltr. only)

El Paso Natural Gas Company

El Paso, Texas

June 23, 1955

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

Commissioner of Public Lands of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit Area
Rio Arriba County, New Mexico
**DRILLING PROGRAM FOR BALANCE OF
CALENDAR YEAR 1955**

Gentlemen:

On July 21, 1954, the El Paso Natural Gas Company, as Unit Operator, filed a drilling program regarding the captioned Unit for the period July 1, 1954, to July 1, 1955. This Drilling Program was approved by the United States Geological Survey, the Commissioner of Public Lands of the State of New Mexico, and the Oil Conservation Commission of the State of New Mexico.

El Paso Natural Gas Company, as Unit Operator, proposes to drill the following listed wells during the period July 1, 1955, to December 31, 1955:

<u>Location</u>	<u>Formation</u>
S/2, Section 10, T-28-N, R-6-W	Mesaverde
S/2, Section 12, T-28-N, R-6-W	Mesaverde
E/2, Section 15, T-28-N, R-6-W	Mesaverde
W/2, Section 15, T-28-N, R-6-W	Mesaverde
E/2, Section 16, T-28-N, R-6-W	Mesaverde
W/2, Section 16, T-28-N, R-6-W	Mesaverde
W/2, Section 18, T-28-N, R-6-W	Mesaverde
E/2, Section 20, T-28-N, R-6-W	Mesaverde
E/2, Section 26, T-28-N, R-6-W	Mesaverde
E/2, Section 27, T-28-N, R-6-W	Mesaverde
E/2, Section 28, T-28-N, R-6-W	Mesaverde

Supplemental Drilling Program
for Balance of Calendar Year 1955
Page 2

W/2, Section 28, T-28-N, R-6-W	Mesaverde
E/2, Section 30, T-28-N, R-6-W	Mesaverde
E/2, Section 31, T-28-N, R-6-W	Mesaverde
E/2, Section 32, T-28-N, R-6-W	Mesaverde
W/2, Section 33, T-28-N, R-6-W	Mesaverde
E/2, Section 33, T-28-N, R-6-W	Mesaverde
W/2, Section 34, T-28-N, R-6-W	Mesaverde
E/2, Section 34, T-28-N, R-6-W	Mesaverde
E/2, Section 35, T-28-N, R-6-W	Mesaverde
W/2, Section 36, T-28-N, R-6-W	Mesaverde
W/2, Section 1, T-27-N, R-6-W	Mesaverde
E/2, Section 3, T-27-N, R-6-W	Mesaverde
E/2, Section 4, T-27-N, R-6-W	Mesaverde
W/2, Section 4, T-27-N, R-6-W	Mesaverde
E/2, Section 5, T-27-N, R-6-W	Mesaverde
W/2, Section 5, T-27-N, R-6-W	Mesaverde
E/2, Section 6, T-27-N, R-6-W	Mesaverde
W/2, Section 6, T-27-N, R-6-W	Mesaverde
E/2, Section 7, T-27-N, R-6-W	Mesaverde
E/2, Section 8, T-27-N, R-6-W	Mesaverde
W/2, Section 9, T-27-N, R-6-W	Mesaverde
W/2, Section 10, T-27-N, R-6-W	Mesaverde
E/2, Section 10, T-27-N, R-6-W	Mesaverde
E/2, Section 15, T-27-N, R-6-W	Mesaverde

The above listed wells make a total of thirty-five (35) Mesaverde wells to be drilled on this Unit for the balance of the calendar year 1955, and will be drilled in accordance with your operating regulations with due care being taken to protect all horizons.

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

Copies of this Drilling Program are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin
R. L. Hamblin
Manager
Lease Department

Supplemental Drilling Program
for 1955
Page 3

APPROVED: _____
Supervisor, United States Geological Survey

Date: _____

Subject to like approval by the appropriate State officials.

APPROVED: _____
Commissioner of Public Lands

Date: _____

Subject to like approval by the U.S.G.S. and Oil Conservation Commission

orig signed
WBM
APPROVED: _____
Oil Conservation Commission

Date: 7/6/55

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

El Paso Natural Gas Company

El Paso, Texas

May 12, 1955

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file

Re: San Juan 28-6 Unit
No. 14-08-001-1051
Rio Arriba County, New Mexico
Noncommercial well,
Mesaverde Formation,
Determined on April 19, 1955

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, Number 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company as Unit Operator determined on April 19, 1955, that the following described well was not capable of producing unitized substances in paying quantities from the Mesaverde formation.

John
This well is as follows:

The San Juan 28-6 Unit #21 Well located 1160 feet from the south line and 900 feet from the west line of Section 4, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on March 25, 1955, and completed on April 8, 1955, at a total depth of 5250 feet. The Cliff House section of the Mesaverde formation between 4520 feet and 4705 feet was treated with a sand-oil fracturing process. The Point Lookout section of the Mesaverde formation between 5015 feet and 5250 feet was also treated with a sand-oil fracturing process. After being shut-in for gauge for eleven (11) days the well was tested on April 19, 1955, and following a three hour blow-down gauged an IP of 1256 MCFGPD with an SIPC of 1076# and an SIPT of 1070#. The committed drilling block upon which this well is located is described as the West Half (W/2) of Section 4, Township 27 North, Range 6 West, N.M.P.M., and consists of 321 acres.

Inasmuch as this determination needs no official approval no provision is made therefor, and in the absence of disapproval this well will continue to be considered noncommercial.

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

Yours very truly,

EL PASO NATURAL GAS COMPANY

By R L Hamblin
R. L. Hamblin
Manager
Lease Department

RLH:GBL:rb

cc: Attached list.

Working Interest Owners

Mr. R. N. Richey
Phillips Petroleum Company
Bartlesville, Oklahoma

Mr. Aaron Colvin
Delhi-Taylor Oil Corporation
Corrigan Tower
Dallas, Texas

Johnston Oil and Gas Company
1453 Esperson Building
Houston 2, Texas

Skelly Oil Company
P. O. Box 1650
Tulsa 2, Oklahoma

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Mr. T. F. Harrington
320-321 Korber Building
Albuquerque, New Mexico

Mr. C. M. Pickrell
Sinclair Oil & Gas Company
P. O. Box 521
Tulsa, Oklahoma

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
P. O. Box 192
Sistersville, West Virginia

San Juan 28-6 Unit

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

Mr. C. F. Bedford
Stanolind Oil & Gas Company
Oil and Gas Building
Fort Worth, Texas

Mr. H. K. Riddle
P. O. Box 1055
Albuquerque, New Mexico

Pubco Development, Inc.
P. O. Box 1419
Albuquerque, New Mexico

Mr. R. E. Beamon
346 Esperson Building
Houston 2, Texas

Rock Hill Oil Company
408 Olive Street
St. Louis, Missouri

Wood River Oil & Refining Co., Inc.
321 West Douglas Street
Wichita 2, Kansas

El Paso Natural Gas Company

El Paso, Texas

March 17, 1955

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

Commissioner of Public Lands
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
#14-08-001-1051
Rio Arriba County, New Mexico
Fifth Expanded Participating Area
Mesaverde Formation
Effective December 1, 1954

Gentlemen:

Please refer to the last paragraph on Page 2 of our letter dated February 25, 1955, relative to the Fifth Expanded Participating Area of the Mesaverde formation to the San Juan 28-6 Unit.

The intervening drilling block located in Section 20, Township 28 North, Range 6 West, N.M.P.M., should be described as the E/2 in lieu of the W/2, and we ask that each of you correct your records accordingly.

We sincerely regret any inconvenience we may have caused you in this matter.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

R. L. Hamblin

R. L. Hamblin

Manager

Lease Department

RLH/DBM/mas

El Paso Natural Gas Company

El Paso, Texas

March 11, 1955

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file

Re: San Juan 28-6 Unit
Rio Arriba County,
New Mexico

Gentlemen:

Attached hereto is one copy of Ratification and Joinder of Unit Agreement to the captioned unit, executed by Carl W. Vogt and his wife, Myrtle J. Vogt, committing their overriding royalty interest in Tracts 14, 15 and 16 of the San Juan 28-6 Unit.

We respectfully ask that you process this Ratification and Joinder Agreement in the usual manner in order to effectively commit this interest to this unit.

Very truly yours,

dm

T. W. Bittick

T. W. Bittick
Area Landman
Lease Department

TWB:GWO:pb
Enclosure

RATIFICATION AND JOINDER OF UNIT AGREEMENT


In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE


Carl W. Vogt



Myrtle J. Vogt

Date: _____

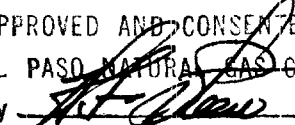
Date: _____

APPROVED AND CONSENTED TO:
JOHNSTON OIL AND GAS COMPANY

APPROVED AND CONSENTED TO:

By 
Vice President
WORKING INTEREST OWNER

By R. E. Beamon
R. E. Beamon
WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY
By 
Vice President
WORKING INTEREST OWNER

STATE OF)
) SS.:
COUNTY OF)

On this _____ day of _____, 195____, before me appeared

_____, to me personally known, who, being
by me duly sworn, did say that he is the _____ President of _____
_____ and that the seal affixed to said instrument
is the corporate seal of said corporation, and that said instrument was signed
and sealed in behalf of said corporation by authority of its board of directors,
and said _____ acknowledged said instrument to be
the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official
seal the day and year in this certificate first above written.

My Commission expires:

Notary Public in and for _____
County,
State of _____

STATE OF Texas)
) SS.:
COUNTY OF El Paso)

On this 25th day of February, 195⁵, before me appeared

Carl W. Vogt and Myrtle J. Vogt

his wife, to me known to be the persons described in and who executed the fore-
going instrument, and acknowledged to me they executed the same as their free act
and deed.

My Commission expires:

Helen Adams
Notary Public, in and for El Paso County, Texas
My commission expires June 1, 1955

Helen Adams

Notary Public in and for _____
County,
State of *Texas*

STATE OF)
) SS.:
COUNTY OF)

On this _____ day of _____, 195____, before me personally

appeared _____, a single person, to me known to be
the person described in and who executed the foregoing instrument, and acknowledged
to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____
County,
State of _____

El Paso Natural Gas Company

El Paso, Texas

March 3, 1955

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

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file
5412

Re: San Juan 28-6 Unit
#14-08-001-1051
Rio Arriba County,
New Mexico
Seventh Expanded Participating Area
Mesaverde Formation
Effective February 1, 1955

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date indicated below that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon the acreage committed to this unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include this well, as follows:

JKH

Riasan Company's Sinclair-Bolack #1 Well is located 1555' from the South line and 825' from the West line of Section 31, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on November 2, 1954, and completed on December 9, 1954, at a total depth of 5665'. The Cliff House section of the Mesaverde Formation between 4960' and 5108' was treated with a sand-oil fracturing process. The Point Lookout section of the Mesaverde Formation between 5510' and 5665' was also treated with a sand-oil fracturing process. After being shut-in for 36 days and following a three hour blow down, gauged 2237 MCFGPD with an SIPC of 1106# and an SIPT of 1101#. The committed drilling block upon which this well is located is described as the W/2 of Section 31, Township 28 North, Range 6 West, N.M.P.M., containing 268.99 acres.

The inclusion of this well in the Mesaverde Participating Area creates one intervening drilling block between the San Juan 28-6 Unit Well #3 and the Riasan Company's Sinclair-Bolack #1 Well. This intervening drilling block is described as the E/2 of Section 31, Township 28 North, Range 6 West, N.M.P.M., and contains 268.99 acres. Under the terms of the Unit Agreement this drilling block is admitted to the Participating Area as of February 1, 1955, the same time of admission of Riasan Company's Sinclair-Bolack #1 Well. A well must be commenced on this intervening drilling block by February 1, 1956.

Attached is Schedule VIII showing the Seventh Expanded Participating Area for the Mesaverde Formation of the San Juan 28-6 Unit Area. This describes the expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tracts. Inasmuch as this needs no official approval, no provision being made therefor, in absence of disapproval this expanded participating area will become effective as of February 1, 1955.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin
R. L. Hamblin
Manager
Lease Department

RLH:DBM:pb
cc: Attached List

609 Meera St.
Clayton N. Mex.
Date: June 13, 1955

Florinda G. Lopez
Florinda G. Lopez
Edwardo Lopez
Edwardo Lopez

Date: _____

APPROVED AND CONSENTED TO:
PUBCO DEVELOPMENT, INC.

By [Signature]
Vice President
WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY
By [Signature] R.L.H.
Vice President
WORKING INTEREST OWNER
UNIT OPERATOR

STATE OF NEW MEXICO)
COUNTY OF UNION) SS.:

On this 15th day of June, 1955, before me appeared

Florinda G. Lopez and Edmundo Lopez, her husband,
~~Marcelino~~ to me known to be the persons described in and who executed the fore-
going instrument, and acknowledged to me they executed the same as their free act
and deed.

My Commission expires:

October 11, 1957.

Emma Quintas
Notary Public in and for _____
Union County,
State of New Mexico

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me personally

appeared _____, a single person, to me known to be
the person described in and who executed the foregoing instrument, and acknowledged
to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____

State of _____

The inclusion of this well in the Mesaverde Participating Area creates one intervening drilling block between the San Juan 28-6 Unit Well #3 and the Riasan Company's Sinclair-Bolack #1 Well. This intervening drilling block is described as the E/2 of Section 31, Township 28 North, Range 6 West, N.M.P.M., and contains 268.99 acres. Under the terms of the Unit Agreement this drilling block is admitted to the Participating Area as of February 1, 1955, the same time of admission of Riasan Company's Sinclair-Bolack #1 Well. A well must be commenced on this intervening drilling block by February 1, 1956.

Attached is Schedule VIII showing the Seventh Expanded Participating Area for the Mesaverde Formation of the San Juan 28-6 Unit Area. This describes the expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tracts. Inasmuch as this needs no official approval, no provision being made therefor, in absence of disapproval this expanded participating area will become effective as of February 1, 1955.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin
R. L. Hamblin
Manager
Lease Department

RLH:DBM:pb
cc: Attached List

El Paso Natural Gas Company

El Paso, Texas

March 3, 1955

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

Commissioner of Public Lands
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
#14-08-001-1051
Rio Arriba County, New Mexico
Sixth Expanded Participating Area
Mesaverde Formation,
Effective January 1, 1955

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date indicated below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon the acreage committed to this Unit. The participating area for the Mesaverde Formation is expanded accordingly to include this well as follows:

609 Meera St.

Clayton N. Mex.

Date: June 13, 1955

Florinda G. Lopez
Florinda G. Lopez
Edwardo Lopez
Edwardo Lopez

Date: _____

APPROVED AND CONSENTED TO:
PUBCO DEVELOPMENT, INC.

By [Signature]
Vice President
WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY

By [Signature] R2H
Vice President
~~WORKING INTEREST OWNER~~
UNIT OPERATOR

El Paso Natural Gas Company

El Paso, Texas

March 3, 1955

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

Commissioner of Public Lands
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
#14-08-001-1051

Rio Arriba County, New Mexico
Sixth Expanded Participating Area
Mesaverde Formation,
Effective January 1, 1955

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date indicated below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon the acreage committed to this Unit. The participating area for the Mesaverde Formation is expanded accordingly to include this well as follows:

El Paso Natural Gas Company's San Juan 28-6 Unit Well #18 is located 790' from the South line and 1,850' from the West line of Section 24, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on November 5, 1954, and completed on November 25, 1954, at a total depth of 5,824'. The Cliff House section of the Mesaverde Formation between 5,067' and 5,195' was treated on November 22, 1954, with a sand-oil fracturing process. The Point Lookout section of the Mesaverde Formation between 5,549' and 5,824' was also treated with a sand-oil fracturing process on November 24, 1954. After being shut-in for ten days and following a three hour blow down, gauged an IP of 3,221 MCFGPD with an SIPC of 1,091# and an SIPT of 1,083#. The committed drilling block upon which this well is located is described as the W/2 Section 24, Township 28 North, Range 6 West, N.M.P.M. containing 320.00 acres.

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

218 Natalia Ave NW
Albuquerque NM

Clara D. Aragon
Clara D. Aragon
Jess Aragon
Jess Aragon

Date: _____

Date: Dec - 13 - 1953 -

APPROVED AND CONSENTED TO:
PUBCO DEVELOPMENT, INC.

By [Signature]
Vice President
WORKING INTEREST OWNER

APPROVED AND CONSENTED TO:
EL PASO OIL AND GAS COMPANY
By [Signature] RAH
Vice President
UNIT OPERATOR

STATE OF
COUNTY OF

SS.:

On this _____ day of _____, 195____, before me appeared

_____, to me personally known, who, being
by me duly sworn, did say that he is the _____ President of _____
_____ and that the seal affixed to said instrument
is the corporate seal of said corporation, and that said instrument was signed
and sealed in behalf of said corporation by authority of its board of directors,
and said _____ acknowledged said instrument to be
the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official
seal the day and year in this certificate first above written.

My Commission expires:

Notary Public in and for _____
County,
State of _____

STATE OF New Mex.
COUNTY OF Bernalillo

SS.:

On this 13th day of Dec., 1955, before me appeared

Jos Aragon and Clara D. Aragon
his wife, to me known to be the persons described in and who executed the fore-
going instrument, and acknowledged to me they executed the same as their free act
and deed.

My Commission expires:

5/26/58

Rosalie Woolh
Notary Public in and for _____
Bernalillo County,
State of N. M.

STATE OF
COUNTY OF

SS.:

On this _____ day of _____, 195____, before me personally

appeared _____, a single person, to me known to be
the person described in and who executed the foregoing instrument, and acknowledged
to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____
County,
State of _____

file

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba County State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

ATTEST:

Jack J. Shan
Assistant Secretary

SIGNATURE

PUBCO DEVELOPMENT, INC.

By:

Frank D. Shanley
Vice President

Date: _____

Date: _____

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY
By W. F. Shaw
Vice President

UNIT OPERATOR

STATE OF New Mexico)
COUNTY OF Bernalillo) SS.:

On this 23rd day of January, 1955, before me appeared

Frank D. Gosham, Jr., to me personally known, who, being
by me duly sworn, did say that he is the Vice President of Tubco Development, Inc.
and that the seal affixed to said instrument
is the corporate seal of said corporation, and that said instrument was signed
and sealed in behalf of said corporation by authority of its board of directors,
and said Frank D. Gosham, Jr. acknowledged said instrument to be
the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official
seal the day and year in this certificate first above written.

My Commission expires:

My Commission Expires June 24, 1957

Mary Beth Harkness
Notary Public in and for _____
Bernalillo County,
State of New Mexico

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me appeared

_____ and _____
his wife, to me known to be the persons described in and who executed the fore-
going instrument, and acknowledged to me they executed the same as their free act
and deed.

My Commission expires:

Notary Public in and for _____
_____ County,
State of _____

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me personally

appeared _____, a single person, to me known to be
the person described in and who executed the foregoing instrument, and acknowledged
to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____
_____ County,
State of _____

file

RATIFICATION AND JOINDER OF UNIT OPERATING AGREEMENT UNDER
UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE
San Juan 28-6 Unit, Rio Arriba County, New Mexico

In consideration of the execution of the Unit Operating Agreement under Unit Agreement for the Development and Operation of the said San Juan 28-6 Unit, in form approved by the Secretary of the Interior, the undersigned owners of lands or leases or interests therein presently held or which may arise under existing option agreements or other interests in production covered by said Unit Operating Agreement, each to the extent of his or her particular ownership or interest, as may appear, have consented to the inclusion of said lands within the Unit Area therein defined, and do hereby approve, adopt and ratify the said Unit Operating Agreement in the form and as submitted to the United States Geological Survey in connection with the submission of Unit Agreement for the Development and Operation of the said Unit Area.

This Ratification and Joinder of Unit Operating Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her successors or assigns, subject to all the terms, provisions and conditions of said Unit Operating Agreement.

ATTEST: ADDRESS
Jack F. Han
Assistant Secretary

SIGNATURE
PUBCO DEVELOPMENT, INC.
By: [Signature]
Vice President

Date: _____

Date: _____

STATE OF _____)
COUNTY OF _____)

SS.:

On this _____ day of _____, 195____, before me personally appeared _____ and his wife, to me known to be the person _____ described in and who executed the foregoing instrument, and acknowledged that _____ executed the same as _____ free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate above written.

My Commission expires: _____

Notary Public in and for _____
County, State of _____

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY
By: [Signature]
Vice President
UNIT OPERATOR

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

SS

On this 23rd day of February, 1955, before me appeared Frank D. Gorman, Jr., to me personally known, who, being by me duly sworn, did say that he is the Vice President of RUBCO REFRIGERATION, INC., and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said Frank D. Gorman, Jr., acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires June 24, 1957

Notary Public in and for Bernalillo County,
State of New Mexico.

Harry Bob Johnson

El Paso Natural Gas Company

El Paso, Texas

May 3, 1955

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file

Re: San Juan 28-6 Unit

Gentlemen:

Attached herewith is one (1) copy of both Ratification and Joinder of Unit Agreement and Unit Operating Agreement executed by Phillips Petroleum Company, committing their working interest, under Tract 47, to the above named Unit.

We ask that you process these Ratification and Joinders in the usual manner in order to effectively commit this interest to the San Juan 28-6 Unit.

Very truly yours,

T. W. Bittick

T. W. Bittick
Area Landman
Lease Department

TWB:GBL:rb
Enclosures

abu

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba State of New Mexico in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

ATTEST

PHILLIPS PETROLEUM COMPANY



Assistant Secretary

By


C. O. Stark

Vice President

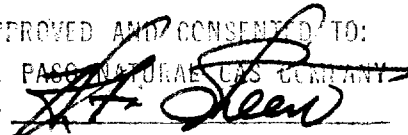
Date: December 22, 1954

Date: _____

APPROVED AND CONSENTED TO:

EL PASO NATURAL GAS COMPANY

By


Vice President

UNIT OPERATOR

STATE OF Oklahoma)
COUNTY OF Washington) SS.:

On this 22nd day of December, 1954, before me appeared
C. O. Stark, to me personally known, who, being
by me duly sworn, did say that he is the Vice President of
Phillips Petroleum Company and that the seal affixed to said instrument
is the corporate seal of said corporation, and that said instrument was signed
and sealed in behalf of said corporation by authority of its board of directors,
and said C. O. Stark acknowledged said instrument to be
the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official
seal the day and year in this certificate first above written.

My Commission expires:

August 1, 1955

Martha Brinkman
Notary Public in and for _____
Washington County,
State of Oklahoma

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me appeared
_____ and _____
his wife, to me known to be the persons described in and who executed the fore-
going instrument, and acknowledged to me they executed the same as their free act
and deed.

My Commission expires:

Notary Public in and for _____
_____ County,
State of _____

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me personally
appeared _____, a single person, to me known to be
the person described in and who executed the foregoing instrument, and acknowledged
to me that _____ he executed the same as _____ free act and deed.

My Commission expires:

Notary Public in and for _____
_____ County,
State of _____

RATIFICATION AND JOINDER OF UNIT OPERATING AGREEMENT UNDER
UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE

In consideration of the execution of the Unit Operating Agreement under Unit Agreement for the Development and Operation of the said San Juan
28-6 Unit, in form approved by the Secretary of the Interior, the undersigned owners of lands or leases or interests therein presently held or which may arise under existing option agreements or other interests in production covered by said Unit Operating Agreement, each to the extent of his or her particular ownership or interest, as may appear, have consented to the inclusion of said lands within the Unit Area therein defined, and do hereby approve, adopt and ratify the said Unit Operating Agreement in the form and as submitted to the United States Geological Survey in connection with the submission of Unit Agreement for the Development and Operation of the said Unit Area.

This Ratification and Joinder of Unit Operating Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her successors or assigns, subject to all the terms, provisions and conditions of said Unit Operating Agreement.

ADDRESS

SIGNATURE

ATTEST

PHILLIPS PETROLEUM COMPANY



Assistant Secretary

By



C. O. Stark

Vice President

Date: December 22, 1954

Date: _____

STATE OF Washington

COUNTY OF King

On this 22nd day of December, 1954, before me personally appeared

C. O. Stark, to me personally known, who, being by me duly sworn did say that he is the Vice President of Phillips Petroleum Company

and that the seal affixed to the foregoing instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and said C. O. Stark acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal on this the day and year first above written.

My Commission Expires August 1, 1955


Notary Public

APPROVED AND CONSENTED TO
EL PASO NATURAL GAS COMPANY
By [Signature]
Vice President
UNIT OPERATOR

Attached is Schedule VII showing the Sixth Expanded Participating Area for the Mesaverde Formation of the San Juan 28-6 Unit Area. This describes the expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tracts. Inasmuch as this needs no official approval, no provision being made therefore, in absence of disapproval this expanded participating area will become effective as of January 1, 1955.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R L Hamblin
R. L. Hamblin
Manager
Lease Department

RLH/DM/mp
Enclosures

El Paso Natural Gas Company

El Paso, Texas

March 2, 1956

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico


Re: (San Juan 23-6 Unit, Tract 44
Ratification and Joinder)

Gentlemen:

Enclosed herewith please find one (1) copy of Ratification and Joinder of Unit Agreement executed by Clara D. Aragon and husband, Jess Aragon, committing their basic royalty interest of .15625% to the above captioned unit and tract.

We respectfully ask that you process this instrument in the usual manner to effectively commit their interest to the unit.

Very truly yours,


James C. Vandiver
Office Landman
Lease Department

JCV:GBL:pb
Enclosure

El Paso Natural Gas Company

El Paso, Texas

February 25, 1955

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

Commissioner of Public Lands
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file

Re: San Juan 28-6 Unit
#14-08-001-1051
Rio Arriba County, New Mexico
Fifth Expanded Participating Area
Mesaverde Formation
Effective December 1, 1954

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, #14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates indicated below that three additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon acreage committed to this Unit. The participating area for the Mesaverde formation is expanded accordingly to include these wells as follows:

- See*
1. Pubco Development, Incorporated's San Juan 28-6 Unit Well #7 is located 1160' from the North line and 1190' from the East line of Section 29, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on October 10, 1954, and completed on November 1, 1954, at a total depth of 5486'. The Cliff House Section of the Mesaverde formation between 4772' and 4930' was treated on October 28, 1954, with a sand-oil fracturing process. The Point Lookout Section of the Mesaverde formation between 5204' and 5486' was also treated with a sand-oil fracturing process on October 31, 1954. After being shut-in for seven days, the well was tested on November 8, 1954, and following a three hour blow-down, gauged an IP of 2595 MCFGPD with an SIPC of 1030# and an SIPT of 1022#. The committed drilling block upon which this well is located is described as the E/2 Section 29, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres.

2. Pubco Development, Incorporated's San Juan 28-6 Unit Well #9, is located 990' from the South line and 990' from the West line of Section 27, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on September 28, 1954, and completed on October 20, 1954, at a total depth of 5750'. The The Cliff House Section of the Mesaverde formation between 5027' and 5184' was treated on October 15, 1954, with a sand-oil fracturing process. The Point Lookout Section of the Mesaverde Formation between 5490' and 5750' was also treated with a sand-oil fracturing process on October 18, 1954, and treated again between 5562' and 5750' with a sand-oil fracturing process on October 19, 1954. After being shut-in for fifteen days, the well was tested on November 8, 1954, and following a three hour blow-down, gauged 2,108 MCFGPD with an SIPC of 1045# and an SIPT of 1039#. The committed drilling block upon which this well is located is described as the W/2, Section 27, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres.
3. El Paso Natural Gas Company's San Juan 28-6 Unit Well #16, is located 990' from the South line and 990' from the West line of Section 30, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on September 22, 1954, and completed on October 24, 1954, at a total depth of 5766'. The Cliff House Section of the Mesaverde formation between 5037' and 5228' was treated on October 18, 1954, with a sand-oil fracturing process. The Point Lookout Section of the Mesaverde formation between 5573' and 5766' was also treated with a sand-oil fracturing process on October 23, 1954. After being shut-in for eight days the well was tested on November 1, 1954, and following a three hour blow-down, gauged 2,863 MCFGPD with an SIPC of 1026# and an SIPT of 1021#. The committed drilling block upon which this well is located is described as the W/2 of Section 30, Township 28 North, Range 6 West, N.M.P.M., containing 263.12 acres.

In comparison with these three determinations there is one (1) well already included within the Mesaverde Participating Area with a lower Initial Potential, and several wells with a comparable initial potential.


The inclusion of these wells in the Mesaverde Participating Area creates two intervening drilling blocks. One intervening drilling block exists between the San Juan 28-6 Unit Well #7 and San Juan 28-6 Unit Well #1 and is described as the W/2 Section 20, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres. The other intervening drilling block exists between the San Juan 28-6 Unit Well #9 and the San Juan 28-6 Unit Well #4 and is described as the E/2 Section 27, Township 28 North, Range 6 West, N.M.P.M., containing 320.00 acres. Under the terms of the Unit Agreement these intervening drilling blocks are admitted to the Participating Area as of December 1, 1954, the same time of admission of the San Juan 28-6 Unit Wells #7, #9 and #16. A well must be commenced on each intervening drilling block by December 1, 1955.

Attached is Schedule VI showing the Fifth Expanded Participating Area, for the Mesaverde Formation of the San Juan 28-6 Unit Area. This describes the expanded participating area, shows the percentage of unitized substances allocated to each unitized tract and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tracts. Inasmuch as this needs no official approval, no provision being made, therefore, in absence of disapproval this expanded participating area will become effective as of December 1, 1954.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
R. L. Hamblin
Manager
Lease Department

RLH/DBM/mas

cc: Attached List

El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

December 3, 1954

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

Commissioner of Public Lands of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit No. 14-08-001-1051
Rio Arriba County, New Mexico
Fourth Expanded Participating Area
Mesaverde Formation
Effective November 1, 1954

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, No. 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company as Unit Operator determined on the dates set out below that four additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon committed acreage to this unit and the participating area for the Mesaverde Formation is accordingly expanded.

These Wells are as follows:

1. Pubco Development, Incorporated's San Juan 28-6 #8 Well located 1650' from the South line and 1650' from the East line of Section 25, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on August 11, 1954, and completed on August 31, 1954, at a total depth of 5928'. The pay section between 5600' and 5928' was treated with a sand-oil fracturing process. After being shut-in for gauge for 17 days, the well was tested on October 4, 1954, and after a three hour blow-down gauged an IP of 2148 MCFGPD with an SIPC of 1096# and an SIPT of 1053#. The committed drilling block upon which this well is located is described as the W/2 of Section 25, Township 28 North, Range 6 West, N.M.P.M., and consists of 320 acres. The determination that this well was capable of producing unitized substances in paying quantities was made on October 4, 1954.

SE 1/4 of SW 1/4?

2. Pubco Development, Incorporated's San Juan 28-6 #10 Well located 990' from the North line and 1650' from the East line of Section 25, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on October 6, 1954, and was completed on September 5, 1954, at a total depth of 5796'. The pay section between 5061' and 5204' was treated with a sand-oil fracturing process. After being shut-in for gauge for 10 days the well was tested on October 4, 1954, and after a three hour blow-down gauged an IP of 3689 MCFGPD with an SIPC of 1090# and an SIPT of 941#. The committed drilling block upon which this well is located is described as the E/2 of Section 25, Township 28 North, Range 6 West, N.M.P.M., and consists of 320 acres. The determination that this well was capable of producing unitized substances in paying quantities was made on October 4, 1954.
3. El Paso Natural Gas Company's San Juan 28-6 #12 Well located 990' from the South line and 1650' from the West line of Section 7, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on August 14, 1954, and completed on September 1st, 1954, at a total depth of 5945'. The pay section between 5624' and 5945' was treated with a sand-oil fracturing process. After being shut-in for gauge for 12 days the well was tested on October 1, 1954, and after a three hour blow-down gauged an IP of 2953 MCFGPD with an SIPC of 939# and an SIPT of 930#. The committed drilling block upon which this well is located is described as the S/2 of Section 7, Township 28 North, Range 6 West, N.M.P.M., and consists of 260.40 acres. The determination that this well was capable of producing unitized substances in paying quantities was made on October 1, 1954.
4. El Paso Natural Gas Company's San Juan 28-6 #13 Well located 990' from the South line and 1550' from the West line of Section 8, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on September 21, 1954, and completed on October 17, 1954, at a total depth of 5975'. The pay section between 5743' and 5832' was treated with a sand-oil fracturing process. After being shut-in for gauge for 7 days the well was tested on October 26, 1954, and after a three hour blow-down gauged an IP of 4972 MCFGPD with an SIPC of 1068# and an SIPT of 1068#. The committed drilling block upon which this well is located is described as the S/2 of Section 8, Township 28 North, Range 6 West, N.M.P.M., and consists of 285.00 acres. The determination that this well was capable of producing unitized substances in paying quantities was made on October 26, 1954.

In comparison with these four determinations there is one (1) well with a lower Initial Potential already included within the Mesaverde Participating Area. This is the San Juan 28-6 #2 Well, with an IP of 815 MCF.

With the completion of these wells an intervening drilling block exists between the San Juan 28-6 #4 Well and the San Juan 28-6 #8 Well. This drilling block is described as the E/2 of Section 26, Township 28 North, Range 6 West, N.M.P.M. and consists of 320 acres. Under the terms of the Unit Agreement this intervening drilling block is admitted to the Participating Area on November 1, 1954, the time of admission of the San Juan 28-6

#8, 10, 12 and 13 Wells, and a well must be commenced on said intervening block by November 1, 1955.

Attached is Schedule V showing the Fourth Expanded Participating Area for the Mesaverde formation for the San Juan 28-6 Unit Area. This describes the expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tracts. Inasmuch as this needs no official approval no provision is made therefor and, in the absence of disapproval, this expanded participating area will become effective as of November 1, 1954.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By R L Hamblin
R. L. Hamblin
Manager
Lease Department

RLH/BG/mas
cc: Attached List

El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

November 8, 1954

Commissioner of Public Lands of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
Tract 47

Gentlemen:

Attached hereto is one (1) copy of Ratification and Joinder of Unit Agreement, dated September 9, 1953, executed by Ascencion Margaret Trujillo, committing her interest in Tract 47 to the above captioned Unit.

We ask that you process this in the usual manner in order to effectively commit these interests to the Unit.

Very truly yours,



T. W. Bittick
Area Landman
Lease Department

TWB/BG/mas
Enclosure

El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

November 8, 1954

Commissioner of Public Lands of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
Tract 47

Gentlemen:

Attached hereto is one (1) copy of Ratification and Joinder of Unit Agreement, dated September 9, 1953, executed by Ascencion Margaret Trujillo, committing her interest in Tract 47 to the above captioned Unit.

We ask that you process this in the usual manner in order to effectively commit these interests to the Unit.

Very truly yours,



T. W. Bittick
Area Landman
Lease Department


TWB/BG/mas
Enclosure

- 2 -

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 
R. L. Hamblin
Manager
Lease Department

RLH/JCV/mas
cc: Attached Sheet

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

T. # 47

ADDRESS

SIGNATURE

P.O. Box 148
Lumberton N. M.

Asencio Margaret Trujillo

Date: Sept 9 1953

Date: _____

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY
By [Signature]
Vice President
UNIT OPERATOR

APPROVED AND CONSENTED TO:
PHILLIPS PETROLEUM COMPANY
BY [Signature]
C. O. STARK, VICE PRESIDENT
WORKING INTEREST OWNER
July 12, 1954

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____ and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

Notary Public in and for _____
County, _____
State of _____

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me appeared _____ and _____ his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires:

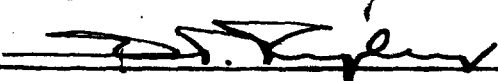
Notary Public in and for _____
County, _____
State of _____

STATE OF N. Mex.)
COUNTY OF Santa Fe) SS.:

On this 9th day of September, 195³, before me personally appeared Ascencion Margaret Trujillo, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that _____ s he executed the same as her free act and deed.

My Commission expires:

January 14, 1955



Notary Public in and for _____
Santa Fe County,
State of New Mexico



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
MAIN OFFICE OCC

1954 AUG 24 AM 8:30 P. O. Box 6721
Roswell, New Mexico

August 26, 1954

El Paso Natural Gas Company
Tenth Floor Bassett Tower
El Paso, Texas

Gentlemen:

The plan of development dated July 21, 1954, for the San Juan 28-6 unit agreement, New Mexico, No. 14-08-001-1051 for the period from July 1, 1954 to July 1, 1955, has been approved on this date subject to like approval by the appropriate State officials.

In addition to the wells provided for in the plan of development, your attention is invited to the obligation of the unit operator to drill all wells necessary to protect the unit area from drainage or pay compensatory royalty as provided in the unit agreement.

One approved copy of the plan is returned herewith.

Very truly yours,

(Orig. Sgd.) R. E. CANFIELD

R. E. CANFIELD
Acting Regional Oil and Gas Supervisor

Enclosure

Copy to: Cons.Div., Wash.D.C., (w/1 copy of plan)
L.N.M.O.C.C. Santa Fe

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



WASHINGTON, D. C.
JAN 10 1901

TO THE CHIEF OF BUREAU

Dear Sir:

I have the honor to acknowledge the receipt of your letter of the 10th inst.

and in reply to inform you that the same has been forwarded to the proper authorities for their consideration.

The matter is now under consideration and it is hoped that a final decision will be reached in due season.

I am, Sir, very respectfully,
Your obedient servant,
J. W. Powell, Chief of Bureau

Very truly yours,
J. W. Powell

Enclosed for you are

3

Very respectfully,
J. W. Powell

100-10000-10000

El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

July 21, 1954

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

Commissioner of Public Lands
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
No. 14-08-001-1051
Rio Arriba County, New Mexico
PLAN OF DEVELOPMENT for the
Period from 7-1-54 to 7-1-55

Gentlemen:

Pursuant to Section 10 of the above numbered Unit Agreement, El Paso Natural Gas Company, as Unit Operator, herewith submits its proposed Drilling Program for the period from July 1, 1954 to July 1, 1955.

All drilling requirements of the Unit Agreement and the Unit Operating Agreement for this Unit have been satisfied by the completion of five wells on the required locations with an Initial Potential as follows:

#2	NE/4 of Section 18, Township 28 North, Range 6 West	IP 815 MCF
#1	NE/4 of Section 17, Township 28 North, Range 6 West	IP 4640 MCF
#4	SW/4 of Section 26, Township 28 North, Range 6 West	IP 4830 MCF
#3	SW/4 of Section 32, Township 28 North, Range 6 West	IP 2630 MCF
#6	SW/4 of Section 15, Township 27 North, Range 6 West	IP 3500 MCF

In addition to the foregoing wells, an additional well located in the NE/4 of Section 14, Township 28 North, Range 6 West, has been completed with an IP of 3210 MCF.

As Unit Operator, we have canvassed all working interest owners in this unit, and the proposed drilling program covers all drilling requests that we have received at the present time. Although we have not yet received a final answer from some working interest owners, we do not see how we can delay any longer the filing of this drilling program.

The San Juan 28-6 #1 and #2 wells are connected to a gathering system. The remaining completed wells are shut in awaiting a pipeline connection.

The W/2 of Section 17, being an intervening drilling block, was admitted to the present Mesaverde participating area December 1, 1953, and under the terms of the Unit Agreement a well must be commenced thereon by December 1, 1954. The San Juan 28-6 Unit is offset by two wells in other units, both of which are producing gas into a pipe line system. The two wells are the San Juan 28-7 #11 well, in the NE/4 of Section 36, T-28-N, R-7-W, and the San Juan 29-6 #7-34 well in the SW/4 of Section 34, T-29-N, R-6-W. El Paso Natural Gas Company as Unit Operator believes that a well should be drilled in the SW/4 of Section 31, T-28-N, R-6-W, to protect the unit from drainage from the San Juan 28-7 #11 well in the San Juan 28-7 Unit, and that a well should be drilled in the S/2 of Section 10, T-28-N, R-6-W, to protect the unit from drainage from the San Juan 29-6 #7-34 well in the San Juan 29-6 Unit.

El Paso Natural Gas Company, as Unit Operator, proposes a drilling program of 11 wells to be drilled to test the Mesaverde formation, such drilling program to cover the period from July 1, 1954, to July 1, 1955. The proposed locations and names of these wells are as follows:

<u>Well Name</u>	<u>Location</u>
San Juan 28-6 #7	NE/4 Section 29, T-28-N, R-6-W
San Juan 28-6 #8	SW/4 Section 25, T-28-N, R-6-W
San Juan 28-6 #9	SW/4 Section 27, T-28-N, R-6-W
San Juan 28-6 #10	NE/4 Section 25, T-28-N, R-6-W
San Juan 28-6 #11	NE/4 Section 9, T-27-N, R-6-W
San Juan 28-6 #12	SW/4 Section 7, T-28-N, R-6-W
San Juan 28-6 #13	SW/4 Section 8, T-28-N, R-6-W
San Juan 28-6 #14	SW/4 Section 17, T-28-N, R-6-W
San Juan 28-6 #15	SW/4 Section 10, T-28-N, R-6-W
San Juan 28-6 #16	SW/4 Section 30, T-28-N, R-6-W
San Juan 28-6 #17	SW/4 Section 31, T-28-N, R-6-W

El Paso Natural Gas Company

543
MAIN OFFICE OCC

TENTH FLOOR BASSETT TOWER

El Paso, Texas

March 24, 1954

1954 MAR 29 AM 8:40

Commissioner of Public Lands
State of New Mexico
Capital Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of
the State of New Mexico
Capital Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit Agreement
No. 14-08-001-1051

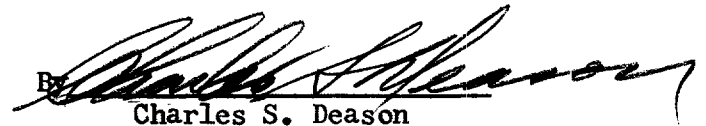
Gentlemen:

We enclose for your files duplicate original of Ratifications and Joinders of Unit Agreement executed by L. A. Nordan, et ux committing their Overriding Royalty Interest under Tracts 1, 2, 3, 4, 5, 8, 9, 10, 11, 18, 32, 33, to the above numbered Unit Agreement. This Ratification and Joinder was approved and consented to by Johnston Oil and Gas Company, Phillips Petroleum Company, New Mexico Natural Gas Company, Delhi Oil Corporation, and El Paso Natural Gas Company, the Working Interest Owners under the Tracts involved.

This instrument has previously been filed with United States Geological Survey and was placed of record in the Office of the County Clerk and Recorder, Rio Arriba County, New Mexico, recorded in Book 21 at Page 164 on March 3, 1954.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By 
Charles S. Deason
Lease Department

CSD/al
cc: Attached List

Working Interest Owners

Mr. R. N. Richey
Phillips Petroleum Company
Bartlesville, Oklahoma

Mr. Aaron Colvin
Delhi Oil Corporation
Corrigan Tower
Dallas, Texas

Johnston Oil & Gas Company
1453 Esperson Building
Houston 2, Texas

Mr. J. W. Loofbourrow
Skelly Oil Company
P. O. Box 4083, Sta. A
Albuquerque, New Mexico

Mr. Tom Bolack
1010 N. Dustin
Farmington, New Mexico

Mr. T. F. Harrington
320-321 Korber Building
Albuquerque, New Mexico

Mr. C. M. Pickrell
Sinclair Oil & Gas Company
P. O. Box 521
Tulsa, Oklahoma

Wood River Oil & Refining Co., Inc.
321 W. Douglas Street
Wichita 2, Kansas

Rock Hill Oil Company
408 Olive Street
St. Louis, Missouri

Mr. R. E. Beamon
346 Esperson Building
Houston 2, Texas

Mr. Paul W. Neuenschwander
Southern Petroleum Exploration, Inc.
Box 192
Sistersville, West Virginia

San Juan 28-6 Unit

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

Mr. G. B. Jenkinson
Stanolind Oil and Gas Company
P. O. Box 591
Tulsa, Oklahoma

Mr. H. K. Riddle
P. O. Box 1055
Albuquerque, New Mexico

Pubco Development, Inc.
P. O. Box 1360
Albuquerque, New Mexico

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

Tr: 1, 2, 3, 4, 5, 7, 8, 10, 11, 18, 32, 43, 53

ADDRESS

711 Milan Building

San Antonio 5, Texas

Date: August 29, 1953

SIGNATURE

Pearl N. Nordan

Approved and Consented to:

JOHNSTON OIL AND GAS COMPANY

By *R. C. Thompson*
Vice President
Working Interest Owner

Approved and Consented to:

APPROVED AND CONSENTED TO:
NEW MEXICO NATURAL GAS CO. NSL

Date: BY *Walter C. Jones*

PRESIDENT
WORKING INTEREST OWNER

DELTA OIL CORPORATION

BY *Frank A. Schulz*
VICE PRESIDENT
WORKING INTEREST OWNER

PHILLIPS PETROLEUM COMPANY

By *H. E. Goodman*
Vice President

H. E. GOODMAN

Working Interest Owner

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY
By *A. F. Shaw*
Vice President

WORKING INTEREST OWNER

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____ and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires: _____

Notary Public in and for _____
County, _____
State of _____

STATE OF TEXAS)
COUNTY OF BEXAR) SS.:

On this 29th day of August, 195³, before me appeared L. A. Nordan and Pearl N. Nordan his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me they executed the same as their free act and deed.

My Commission expires: _____

June 1, 1955

Elizabeth Scoggin

Notary Public in and for _____
Bexar County,
State of Texas

STATE OF)
COUNTY OF) SS.:

ELIZABETH SCOGGIN
Notary Public, Bexar County, Texas

On this _____ day of _____, 195____, before me personally appeared _____, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that _____ he executed the same as _____ free act and deed.

My Commission expires: _____

Notary Public in and for _____
County, _____
State of _____

TURNER, WHITE, ATWOOD, McLANE AND FRANCIS

ATTORNEYS AND COUNSELORS AT LAW

17TH FLOOR MERCANTILE BANK BUILDING

DALLAS 1, TEXAS

March 17, 1954

J. GLENN TURNER
W. D. WHITE
FELIX ATWOOD
ALFRED E. McLANE
EDWARD L. FRANCIS
JAMES B. FRANCIS
JULIAN M. MEER
TREVOR REES-JONES
HARRY S. WELCH
THOS. R. HARTNETT III
H. L. HITCHINS, JR.
WILLIAM L. MEINERNEY
WILLIAM G. WEBB
LEWIS CHANDLER
SNOWDEN M. LEFTWICH, JR.
WILLIAM C. HERNDON, JR.

file
Hmk
543
MAIN OFFICE OCC
MAIN OFFICE OCC

1954 MAR 31 AM 8:43
MAR 31 1954

C Mr. Charles S. Deason
Land Department
El Paso Natural Gas Company
Tenth Floor Bassett Tower
El Paso, Texas

O Re: San Juan 28-6 Unit Agreement
No. 14-08-001-1051
Rio Arriba County, New Mexico

Dear Mr. Deason:

P Please find enclosed herewith recorded copy of Ratification and Joinder of the above captioned Unit Agreement as executed by W. B. Rawson and his wife, Nathalie Rawson, as approved and consented to by Johnston Oil and Gas Company and R. E. Beamon, relating to Tracts Number 14, 15 and 16 under the above Unit Agreement, as filed for record at 9:00 o'clock A. M. on March 15, 1954 and recorded on March 15, 1954 in Volume 48, at Page 324, of the County Records of Rio Arriba County, New Mexico.

Y Copies of this letter are being mailed of even date herewith to all working interest owners under the captioned Unit Agreement for their information.

Yours very truly,

TURNER, WHITE, ATWOOD, McLANE
and FRANCIS

By 
William G. Webb

WGW:mch
Encl.

TURNER, WHITE, ATWOOD, McLANE AND FRANCIS

ATTORNEYS AND COUNSELLORS AT LAW

2011年12月4日 星期日

QALASIT, LAJAO

1. *Chlorophyll a* (Chl *a*)

000 201770 NIAN

1961 MAR 15 PM 10 03

[illegible][illegible]

P/O: 11-09-001-1011
 Agreement # 11-09-001-1011
 11-09-001-1011

[illegible]

County, New Mexico, Volume 44, at Page 324, of the County Records of New Mexico, dated March 13, 1933 and on March 13, 1934, the above Unit Agreement, as filed for record at 9:15, 10:00 and 10:15 P.M., relating to Tract Number 14, 15 and 16, was received and connected to by Operator 67 and Gas Company and certified by W. B. Rawson and J. H. Nathan's Rawson, as Attorney and Attorney of the above mentioned Unit Agreement, as filed and recorded herein. Attached hereto is a true and correct copy of said Unit Agreement.

now is being held at the same time as the
- 2 -
the meeting is all working together and the cap-
tured and agreement for their information.

ALVIN C. BROWN

STATION "STREET LIGHT" - BUREAU
STATION "STREET LIGHT" - BUREAU

[Faint, illegible markings]

10-10-68

TURNER, WHITE, ATWOOD, McLANE AND FRANCIS

ATTORNEYS AND COUNSELORS AT LAW

17th FLOOR MERCANTILE BANK BUILDING

DALLAS 1, TEXAS

March 6, 1954

J. GLENN TURNER
W. D. WHITE
FELIX ATWOOD
ALFRED E. McLANE
EDWARD L. FRANCIS
JAMES B. FRANCIS
JULIAN M. MEER
TREVOR REES-JONES
HARRY S. WELCH
THOS. R. HARTNETT III
H. L. HITCHINS, JR.
WILLIAM L. McINERNEY
WILLIAM G. WEBB
LEWIS CHANDLER
SNOWDEN M. LEFTWICH, JR.
WILLIAM C. HERNDON, JR.

ON COPIES OF
MAR 8 1954
17-1243

Supervisor
U. S. Geological Survey
Federal Building
Roswell, New Mexico

Re: San Juan 28-6 Unit Agreement
Rio Arriba County, New Mexico
No. 14-08-001-1051

Gentlemen:

Please find enclosed herewith four copies of Ratification and Joinder of the above captioned Unit Agreement as executed by M. J. Florance and his wife, Florence A. Florance, and approved and consented to by El Paso Natural Gas Company and T. F. Harrington, who are the working interest owners under Tracts Numbers 27 and 28 wherein the said M. J. Florance and his wife, Florence A. Florance, own an overriding royalty interest.


Copies of the foregoing Ratification have been today mailed to the Commissioner of Public Lands of the State of New Mexico and the Oil Conservation Commission of the State of New Mexico and to all working interest owners within the Unit Area, as per list attached.

With best wishes, we are

Yours very truly,

TURNER, WHITE, ATWOOD, McLANE
and FRANCIS

By


William G. Webb

WGW:mch
Encls.

Mr. R. L. Hamblin
El Paso Natural Gas Company
Tenth Floor Bassett Tower
El Paso, Texas

Mr. L. C. Oldham
Johnston Oil and Gas Company
1453 Esperson Building
Houston, Texas

Land Department
Stanolind Oil & Gas Company
P. O. Box 1410
Fort Worth, Texas

Land Department
Sinclair Oil & Gas Company
Sinclair Building
Tulsa, Oklahoma

Mr. Aaron L. Colvin
Land Department
Delhi Oil Corporation
Corrigan Tower
Dallas 1, Texas

Mr. R. F. Rood
Phillips Petroleum Company
Phillips Building
Bartlesville, Oklahoma

Mr. Fred O. Cloyes
New Mexico Natural Gas Company
P. O. Box 553
Sheboygan, Wisconsin

Mr. H. K. Riddle
P. O. Box 1055
Albuquerque, New Mexico

Southern Petroleum Exploration, Inc.
Box 192
Sisteraville, West Virginia

Mr. Tom Bolack
1010 North Dustin
Farmington, New Mexico

Mr. Forrest B. Miller
220 Shelby Street
Santa Fe, New Mexico

Mr. T. F. Harrington
Korber Building
Albuquerque, New Mexico

Mr. R. E. Beamon
Esperson Building
Houston, Texas

Land Department
Skelly Oil Company
Skelly Building
Tulsa, Oklahoma

Mr. T. H. McElvain
220 Shelby Street
Santa Fe, New Mexico

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 28-6 Unit Area located within the County of Rio Arriba, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

W. F. Harrington

Date: _____

4929 E. Sunnyslope Rd.
Minneapolis, Minn

Florence A. Florence

Date: *Nov 20th 1953*

APPROVED AND CONSENTED TO:
EL PASO NATURAL GAS COMPANY
By *[Signature]*
Vice President
WORKING INTEREST OWNER

TR. 27728

APPROVED AND CONSENTED TO:
T. F. Harrington
T. F. Harrington
Working Interest Owner

STATE OF)
COUNTY OF) SS.:

On this _____ day of _____, 195____, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____ and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

Notary Public in and for
County,
State of

STATE OF TEXAS)
COUNTY OF DALLAS) SS.:

On this 12th day of November, 1953, before me

appeared ~~to me~~ ~~and~~ ~~his wife~~ ~~to be known to be~~ ~~the persons described in and who executed~~ ~~the foregoing instrument, and acknowledged to me they executed the same~~ ~~as their free act and deed.~~

My Commission expires:

Frances E. Haynes
Notary Public in and for _____
Dallas County,
State of Texas.

STATE OF MINNESOTA)
COUNTY OF HENNEPIN) SS.:

On this 20 day of November, 1953, before

me personally appeared ~~FLORENCE A. FLORENCE, wife of M. J.~~ ^{FLORENCE} ~~xxxxxxx~~ person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that ~~she~~ he executed the same as ~~her~~ free act and deed. ✓

My Commission expires:

Notary Public in and for _____
 Hennepin County,
 State of Minnesota.

~~ROBERT C. NOLTZE~~
Notary Public, Hennepin County, Minn.
My Commission Expires Jan. 28, 1960.

El Paso Natural Gas Company

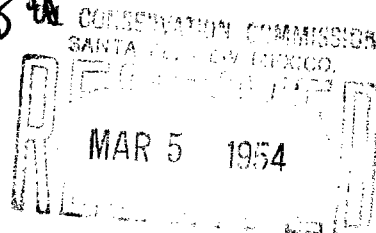
TENTH FLOOR BASSETT TOWER

El Paso, Texas

~~December 9, 1953~~

Mar 2, 1954

*change date to correct
date of letter agreement
dated Mar 4, 54*



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

Commissioner of Public Lands of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit No. 14-08-001-1051
Rio Arriba County, New Mexico
Third Expanded Participating Area
Mesaverde Formation
Effective December 1, 1953

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-6 Unit Agreement, No. 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company as Unit Operator determined on the dates set out below that three additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation had been completed upon committed acreage to this unit and the participating area for the Mesaverde formation is accordingly expanded.

These wells are as follows:

1. El Paso Natural Gas Company's San Juan 28-6 #2 Well located 890' South of the North line and 990' West of the East line of Section 18, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on July 30, 1953, and completed on October 15, 1953, at a total depth of 5885'. The pay section between 5715' and 5885' was shot with 340 quarts of nitroglycerine. The well was tested on November 3, 1953, and after a three hour blow-down gauged an IP of 815 MCFGPD with an SIPC of 1051# and an SIPT of 1052#. The committed drilling block upon which this well is located is described as the E/2 of Section 18, Township 28 North, Range 6 West, N.M.P.M. and consists of 320 acres. The determination that this well was capable of producing unitized substances in paying quantities was made on November 3, 1953.

2. El Paso Natural Gas Company's San Juan 28-6 #3 Well located 990' North of the South line and 1709' East of the West line of Section 32, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on October 1, 1953, and was completed on October 31, 1953, at a total depth of 5474'. The pay section between 4810' and 5474' was shot with 1861 quarts of nitroglycerine. The well was tested on November 13, 1953, and after a three hour blow-down gauged an IP of 2630 MCFGPD with an SIPC of 1061# and an SIPT of 1059#. The committed drilling block upon which this well is located is described as Lots 3 and 4, N/2 SW/4, NW/4 of Section 32, Township 28 North, Range 6 West, N.M.P.M. and consists of 325.23 acres. The determination that this well was capable of producing unitized substances in paying quantities was made on November 13, 1953.
3. El Paso Natural Gas Company's San Juan 28-6 #6 Well located 1550' North of the South line and 990' East of the West line of Section 15, Township 27 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on September 14, 1953, and completed on November 13, 1953, at a total depth of 5520'. The pay section between 4838' and 5516' was shot with 2255 quarts of nitroglycerine. The well was tested on November 30, 1953, and after a three hour blow-down gauged an IP of 3500 MCFGPD with an SIPC of 1083# and an SIPT of 1079#. The committed drilling block upon which this well is located is described as the W/2 of Section 15, Township 27 North, Range 6 West, N.M.P.M. and consists of 320 acres. The determination that this well was capable of producing unitized substances in paying quantities was made on November 30, 1953.

With the completion of these wells an intervening drilling block exists between the San Juan 28-6 #1 Well and the San Juan 28-6 #2 Well. This drilling block is described as the W/2 of Section 17, Township 28 North, Range 6 West, N.M.P.M. and consists of 320 acres. Under the terms of the Unit Agreement this intervening drilling block is admitted to the Participating Area on December 1, 1953, the time of admission of the San Juan 28-6 #2 Well, and a well must be commenced on said intervening block by December 1, 1954.

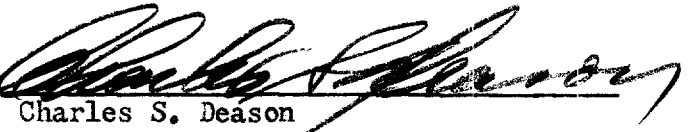
Attached is Schedule IV showing the Third Expanded Participating Area for the Mesaverde formation for the San Juan 28-6 Unit Area. This describes the expanded participating area, shows the percentage of unitized substances allocated to each unitized tract and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tracts. Inasmuch as this needs no official approval no provision is made therefor and, in the absence of disapproval, this expanded participating area will become effective as of December 1, 1953.

-3-

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By 
Charles S. Deason
Lease Department

CSD:al

cc: Attached List

116
3-2

El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

February 24, 1954

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

Commissioner of Public Lands of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit No. 14-08-001-1051
Rio Arriba County, New Mexico
Second Expanded Participating Area
Mesaverde Formation
Effective November 1, 1953

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, No. 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company as Unit Operator determined on October 23, 1953, that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation had been completed upon committed acreage to this unit and the participating area for the Mesaverde Formation is accordingly expanded.

This well is as follows:

El Paso Natural Gas Company's San Juan 28-6 #4 Well located 1650' North of the South line and 990' East of the West line of Section 26, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on September 1, 1953, and reached a total depth of 5722'. The pay section between 5080' and 5722' was shot with 1743 quarts of nitroglycerine, and upon test on October 23, 1953, after a three hour blow down, gauged an IP of 5010 MCFGPD with an SIPC of 1092# and an SIPT of 1092#. The committed drilling block upon which this well is located is described as the W/2 of Section 26, Township 28 North, Range 6 West, N.M.P.M. and consists of 320 acres.

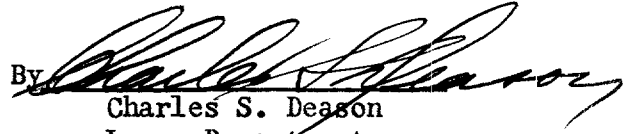
February 23, 1954

Attached is Schedule III showing the Second Expanded Participating Area for the Mesaverde Formation for the San Juan 28-6 Unit Area. This describes the expanded participating area, shows the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tract. Inasmuch as this needs no official approval no provision is made therefor, and in the absence of disapproval, this expanded participating area will become effective as of November 1, 1953.

Copies of this letter and schedule are being sent to the Working Interest Owners shown on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By 
Charles S. Deason
Lease Department

CSD:ms

cc: Attached List

SCHEDULE III
SECOND EXPANDED PARTICIPATING AREA FOR THE MESAVERTDE FORMATION
SAN JUAN 28-6 UNIT AREA

<u>SERIAL NUMBER</u>	<u>DRILLING BLOCK</u>	<u>NUMBER OF ACRES</u>	<u>DRILLING BLOCK OWNERSHIP AND PERCENTAGE</u>	<u>COMMITTED</u>	<u>MAXIMUM POSSIBLE PARTICIPATION</u>	<u>PRESENT ACTUAL PARTICIPATION</u>
<u>Tract 7</u>						
SF 079050-B	T-28-N, R-6-W Sec. 26: NW/4, SW/4 N/2 SW/4, SW/4	280.00	Royalty Owner: United States of America; Working Interest Owner: Phillips Petroleum Company; ORRI Owners: Bruce Harris, et al; TOTAL	12.50% 100.00%	12.50% 100.00%	29.16667% 29.16667%
	T-28-N, R-6-W Sec. 26: SE/4 SW/4	40.00	Royalty Owner: United States of America; Working Interest Owner: Phillips Petroleum Company; ORRI Owners: Bruce Harris, et al; TOTAL	12.50% 100.00%	12.50% 100.00%	4.16667% 4.16667%
San Juan 28-6 # 4 Well	Sec. 26: W/2	320.00		100.00%	33.33334%	33.33334%

SCHEDULE III
SECOND EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 28-6 UNIT AREA

<u>SERIAL NUMBER</u>	<u>DRILLING BLOCK</u>	<u>NUMBER OF ACRES</u>	<u>DRILLING BLOCK OWNERSHIP AND PERCENTAGE</u>	<u>COMMITTED</u>	<u>MAXIMUM POSSIBLE PARTICIPATION</u>	<u>PRESENT ACTUAL PARTICIPATION</u>
<u>Tract 12</u>						
SF 079192	T-28-N, R-6-W Sec. 17: E/2	320.00	Royalty Owner: United States of America; Working Interest Owner: Skelly Oil Company ORRI Owners: H. K. Riddle, et al; TOTAL	12.50% 12.50% 84.50% 3.00% 3.00% 100.00%	4.16667% 4.16667% 28.16666% 1.00000% 33.33333%	4.16667% 4.16667% 28.16666% 1.00000% 33.33333%
San Juan 28-6 # 1 Well	Sec. 17: E/2	320.00		100.00%	33.33333%	33.33333%

SCHEDULE III
SECOND EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 28-6 UNIT AREA

<u>SERIAL NUMBER</u>	<u>DRILLING BLOCK</u>	<u>NUMBER OF ACRES</u>	<u>DRILLING BLOCK OWNERSHIP AND PERCENTAGE</u>	<u>COMMITTED</u>	<u>MAXIMUM POSSIBLE PARTICIPATION</u>	<u>PRESENT ACTUAL PARTICIPATION</u>
<u>Tract 31</u>						
NM 02805	T-28-N, R-6-W Sec. 14: E/2	320.00	Royalty Owner: United States of America; 12.50% Working Interest Owner: Phillips Petroleum Company; 83.00% ORRI Owners: Dan W. Johnston, et al; 4.50% TOTAL 100.00%	12.50% 4.50% 100.00%	33.333333% 1.500000% 33.333333%	33.333333% 1.500000% 33.333333%
Mesa # 1-14 Well	Sec. 14: E/2	320.00		100.00%	33.333333%	33.333333%

RECAPITULATION

Description of lands in Participating Area:
Township 28 North, Range 6 West, N.M.P.M.
Sections 14, 17: E/2
Section 26: W/2

Total number of acres in Participating Area:	960.00
Percent of Basic Royalty committed:	100.00%
Percent of Working Interest committed:	100.00%
Percent of O.R.R.I. committed:	100.00%

Case 543

October 22, 1953

Mr. William G. Webb
Attorney at Law
Turner, White, Atwood, Melane and Francis
1711 Mercantile Bank Building
Dallas, Texas

Re: San Juan 28-6 Unit Agreement,
Rio Arriba County, New Mexico

Dear Sir:

Our records reveal that the above captioned unit agreement was approved by the Oil Conservation Commission on May 26, 1953 and by the Commissioner of Public Lands on the same date.

The assignments, leases and tract books have not been posted in accordance with our regulations due to the fact that you have not furnished our office with an executed copy of this agreement. It will be appreciated if an executed copy of the agreement is forwarded to our office at an early date.

Very truly yours,

R. S. WALKER
Commissioner of Public Lands

cc: El Paso Natural Gas Company (1)
Oil Conservation Commission (1)
United States Geological Survey (3)

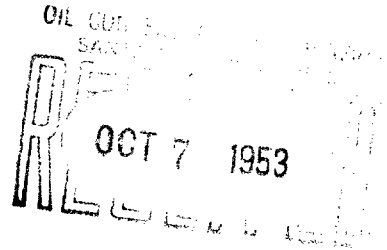
C
O
P
Y

El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

October 5, 1953



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

Commissioner of Public Lands of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

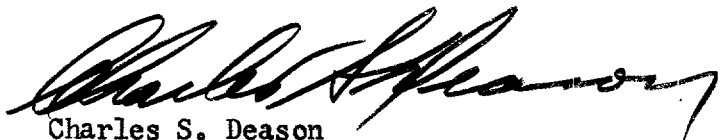
Re: San Juan 28-6 Unit Agreement
No. 14-08-001-1051
Rio Arriba County, New Mexico

Gentlemen:

This is to advise that the Initial Participating Area for the Mesa-verde Formation under the above numbered unit agreement was approved by the Director of the United States Geological Survey on September 24, 1953, by the Commissioner of Public Lands of the State of New Mexico on September 11, 1953, and by the Oil Conservation Commission of the State of New Mexico on September 10, 1953.

Yours very truly,

EL PASO NATURAL GAS COMPANY


Charles S. Deason
Lease Department

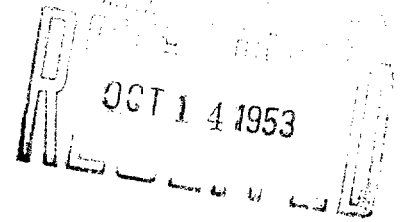
CSD:jaf
cc: Attached List

El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

September 30, 1953



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

Commissioner of Public Lands of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit No. 14-08-001-1051
Rio Arriba County, New Mexico
First Expanded Participating Area
Mesaverde Formation
Effective October 1, 1953

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 28-6 Unit Agreement, No. 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company as Unit Operator determines that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon committed acreage to this unit and the participating area for the Mesaverde Formation is accordingly expanded.

This well is as follows:

Skelly Oil Company's San Juan 28-6 #1 Well (formerly Hickman #1) located 1500' South of the North line and 1650' West of the East line of Section 17, Township 28 North, Range 6 West, Rio Arriba County, New Mexico. This well was spudded on June 3, 1953, and reached a total depth of 5930'. The pay section between 5376' and 5908' was shot with 1460 quarts of nitroglycerine. The well was tested on September 1, 1953, and after three-hour blow down gauged an IP of 4640 MCFGPD. Shut-In Pressure is not known. The committed drilling block upon which this well is located is described as the E/2 of Section 17, Township 28 North, Range 6 West, N.M.P.M. and consists of 320 acres.

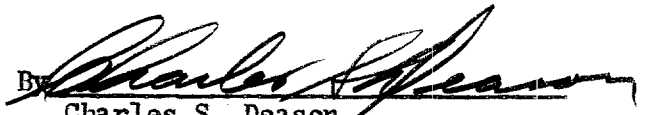
October 7, 1953

Attached is Schedule II showing the First Expanded Participating Area for the Mesaverde Formation for the San Juan 28-6 Unit Area. This describes the expanded participating area, shows the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownerships in said tract. Inasmuch as this needs no official approval no provision is made therefore, and in the absence of disapproval, this expanded participating area will become effective as of October 1, 1953.

Copies of this letter and schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By 
Charles S. Deason
Lease Department

CSD:jaf

cc: Attached List

SCHEDULE II
FIRST EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 28-6 UNIT AREA

<u>SERIAL NUMBER</u>	<u>DESCRIPTION</u>	<u>NUMBER OF ACRES</u>	<u>OWNERSHIP AND PERCENTAGE</u>	<u>PERCENTAGE COMMITTED</u>	<u>PERCENTAGE OF PARTICIPATION</u>
SF 079192	T-28-N, R-6-W Sec. 17: E/2	320.00	<p><u>Tract 12</u></p> <p>Royalty Owner: United States of America; 12.50% Working Interest Owner: Skelly Oil Company; 87.50% ORRI Owner: None; <u>.00%</u> TOTAL 100.00%</p>	<p>12.50%</p> <p>87.50%</p> <p><u>.00%</u> 100.00%</p>	<p><u>50.00000%</u></p> <p>6.2500%</p> <p>43.7500%</p> <p><u>.0000%</u> 50.0000%</p>

San Juan 28-6 Unit #1 Well
(New Well)

Effective October 1, 1953

SCHEDULE II
FIRST EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 28-6 UNIT AREA

<u>SERIAL NUMBER</u>	<u>DESCRIPTION</u>	<u>NUMBER OF ACRES</u>	<u>OWNERSHIP AND PERCENTAGE</u>	<u>PERCENTAGE COMMITTED</u>	<u>PERCENTAGE OF PARTICIPATION</u>
NM 02805	T-28-N, R-6-W Sec. 14: E/2	320.00	<p><u>Tract 3/</u></p> <p>Royalty Owner: United States of America; 12.50% Working Interest Owner: Phillips Petroleum Co.; 83.00% ORRI Owners: Dan W. Johnston, et al; <u>4.50%</u> TOTAL 100.00%</p>	<p>12.50%</p> <p>83.00%</p> <p><u>4.50%</u> 100.00%</p>	<p>50.0000%</p> <p>6.2500%</p> <p>41.5000%</p> <p><u>2.2500%</u> 50.0000%</p>

Mesa #1-14 Well

RECAPITULATION

Description of lands in Participating Area:
Township 28 North, Range 6 West, N.M.P.M.
Section 14: E/2
Section 17: E/2

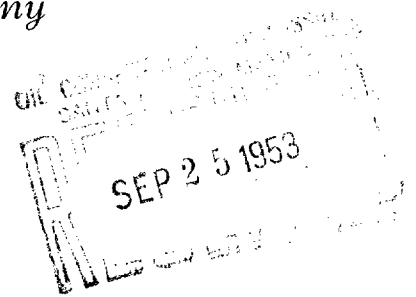
Total number of acres in Participating Area: 640.00
Percent of Working Interest and Royalty Interest committed: 100.00%

El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

September 22, 1953



Commissioner of Public Lands of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

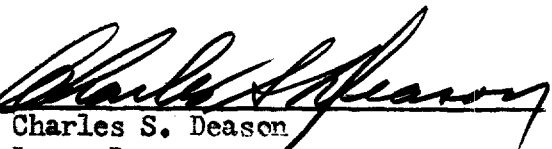
Re: San Juan 28-6 Unit Agreement
No. 14-08-001-1051

Gentlemen:

Enclosed, for your files, is a copy of the letter of transmittal by which the Director of the United States Geological Survey sent us the approved copies of the above numbered Unit Agreement.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By 
Charles S. Deason
Lease Department

CSD:jaf
encl.
cc: Attached List

El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

September 8, 1953



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

Commissioner of Public Lands of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of
the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit No. 14-08-001-1051
Rio Arriba County, New Mexico
Request for Approval of Initial
Participating Area - Mesaverde Formation
To Be Effective August 31, 1953

Gentlemen:

Pursuant to the provisions of Section 11(a) of the San Juan 28-6 Unit Agreement No. 14-08-001-1051, approved August 31, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Initial Participating Area for the Mesaverde Formation. On August 31, 1953, we sent out our Notice of Discovery of unitized substances as of that date, the effective date of the unit agreement.

The Initial Participating Area contains 320 acres and is composed of one drilling block with one discovery well located thereon:

Township 28 North Range 6 West

<u>Well</u>	<u>Drilling Block</u>	<u>Acres</u>
Mesa #1-14	E/2 Section 14	320

This well is located in the NE/4 of this section. It was completed August 23, 1953, at a total depth of 5703'. On a three-hour open blow test this well gauged an IP of 3210 MCFGPD with SIPC of 1064#.

September 8, 1953

Attached hereto is our Schedule I legally describing the proposed participating area showing the percentage of unitized substances to be allocated to this unitized tract and also showing the exact breakdown of the percentages so allocated to this tract according to the various ownerships in said tract. We are also attaching a map, Exhibit "A", showing the location of this well and the outline of this Initial Participating Area.

If this Initial Participating Area meets with your approval, please indicate such approval in the space provided on said Schedule I and return an approved copy for our files.

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

Yours very truly,

EL PASO NATURAL GAS COMPANY

By


Charles S. Deason
Lease Department

CSD:jaf
cc: Attached List
encls.

SCHEDULE I
INITIAL PARTICIPATING AREA FOR THE MESAVERRDE FORMATION
SAN JUAN 28-6 UNIT AREA

<u>SERIAL NUMBER</u>	<u>DESCRIPTION</u>	<u>NUMBER OF ACRES</u>	<u>OWNERSHIP AND PERCENTAGE</u>	<u>PERCENTAGE COMMITTED</u>	<u>PERCENTAGE OF PARTICIPATION</u>
<u>Tract 31</u>					
NM 02805	T-28-N,R-6-W Sec. 14: E/2	320.00			<u>100.00%</u>
	Royalty Owner:				
	United States of America;		12.50%	12.50%	12.50%
	Working Interest Owner:				
	Phillips Petroleum Co.;		83.00%	83.00%	83.00%
	ORRI Owners:				
	Dan W. Johnston, et al;		<u>4.50%</u>	<u>4.50%</u>	<u>4.50%</u>
	TOTAL		100.00%	100.00%	100.00%

Mesa #1-14 Well

RECAPITULATION

Description of lands in Participating Area:
Township 28 North, Range 6 West, N.M.P.M.
Section 14: E/2

Total number of acres in Participating Area: 320.00
Percent of Working Interest and Royalty Interest committed: 100.00%

Approved _____ 1953

Subject to like approval by the appropriate State Officials, effective August 31, 1953, pursuant to the pertinent provisions of Sec. 11 of the Unit Agreement.

Approved _____ 1953

Subject to like approval by the United States Geological Survey and Oil Conservation Commission of the State of New Mexico, effective August 31, 1953, pursuant to the pertinent provisions of Sec. 11 of the Unit Agreement.

Approved 10 Sept. 1953

Subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico, effective August 31, 1953, pursuant to the pertinent provisions of Sec. 11 of the Unit Agreement.

Director - United States Geological Survey

Commissioner of Public Lands of the State of New Mexico

Oil Conservation Commission of the State of New Mexico

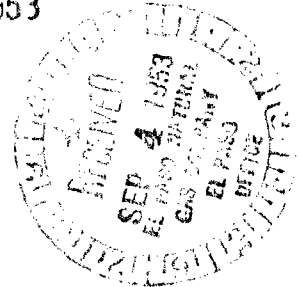
E. R. D. Smith

Sept 11 1953



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

SEP 1 1953



El Paso Natural Gas Company
Tenth Floor Bassett Tower
El Paso, Texas

Gentlemen:

On August 31, 1953, Acting Director of the Geological Survey, Arthur A. Baker, approved the San Juan 28-6 unit agreement, Rio Arriba County, New Mexico, filed by your company as unit operator. This agreement has been designated No. 14-00-001-1051, and is effective as of the date of approval.

Enclosed are two copies of the approved unit agreement for your records. It is requested that you furnish the State of New Mexico or any other interested principal with whatever evidence of this approval is deemed appropriate.

Although an undivided, unleased one-half interest in tract 44 and the full interest in unleased tract 47 are not committed to the unit agreement, approval was predicated on the premise that the unit operator has sufficient control in the drilling blocks involved to accomplish a normal drilling and producing performance at the proper time, even though it may be necessary to formulate communitization agreements in conformance with existing field spacing and allowable programs or to drill pursuant to approved exceptions to spacing-allowable orders even on a reduced allowable basis, if necessary, in the event commitment of the land can not be secured. As to the partially committed tracts 41, 43, 44, and 45, that is, the tracts in which the working interests are committed but the royalty interests are not, it will be incumbent upon the unit operator to preserve the leases by actual leasehold production in the event subsequent joinders of the outstanding interests can not be obtained during the primary term of the leases involved.

Very truly yours,

H. J. Duncan
For the Director

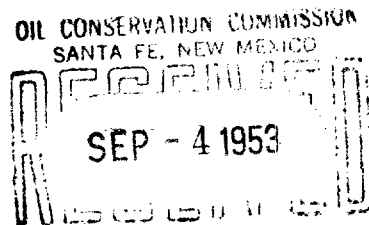
Enclosures 2

El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

August 31, 1953



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

Commissioner of Public Lands
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Re: San Juan 28-6 Unit
Rio Arriba County, New Mexico
NOTICE OF DISCOVERY

Gentlemen:

Pursuant to Section 11, paragraph 2, of the above unit agreement, you are hereby informed of the discovery of unitized substances in paying quantities from the Mesaverde formation on lands committed to the above numbered unit agreement.

As of August 31, 1953, the effective date of this unit agreement, there was one committed well already completed in the Mesaverde formation. This committed well is the Phillips Petroleum Company San Juan 28-6 Mesa Well #1-14 which is located 990' from the north and east lines of Section 14, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico.


This well was spudded on June 29, 1953, and reached a total depth of 5703' on August 4, 1953. Surface casing of 10-3/4" was set at 172' and cemented with 195 sacks; 7" casing was set at 4932' and cemented with 300 sacks. The Mesaverde pay section between 5015' and 5703' was shot with 1932 qts. of nitroglycerin. On August 23, 1953, following a 16-day shut in period, the well gauged 3210 MCF gas per day on a three hour test. The shut in pressure tubing was 1062 psig and the shut in pressure casing was 1064 psig.

Page 2
Director, U. S. G. S.
Commissioner of Public Lands
Oil Conservation Commission
August 31, 1953

The drilling block upon which this well is located is the E/2 of Section 14, Township 28 North, Range 6 West, containing 320 acres. This drilling block is fully committed to the unit agreement, and pursuant to the above mentioned Section 11 of the unit agreement, it is determined by El Paso Natural Gas Company, Unit Operator, that this well is capable of producing unitized substances in paying quantities.

Yours very truly,

EL PASO NATURAL GAS COMPANY


R. L. Hamblin
Lease Department

RLH:ms
cc: Working Interest Owners
as per attached list.

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the 28-6 Unit Area located within the County of Rio Arriba, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

SIGNATURE

4020 Willowick

W B Ranson

Houston Texas

Date:

8-31-53

and

W B Ranson

Date:

8-31-53

APPROVED AND CONSENTED TO: 9-16-53:
JOHNSTON OIL AND GAS COMPANY

APPROVED 9-23-53

BY

R. E. Beamon
Vice President
WORKING INTEREST OWNER

R. E. Beamon
WORKING INTEREST OWNER

Tr. 14, 15 & 16

STATE OF)
) SS.
COUNTY OF)

On this _____ day of _____, 195__, before me appeared _____, to me personally known, who, being by me duly sworn, did say that he is the _____ President of _____ and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said _____ acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

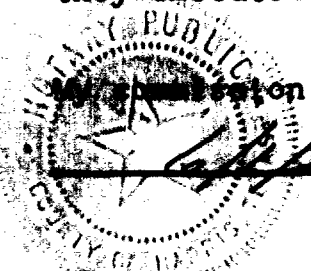
My commission expires: _____

Notary Public in and for
County,
State of _____

STATE OF ~~TEXAS~~)
) SS.
COUNTY OF ~~HARRIS~~)

On this _____ day of September, 1953, before me appeared W. S. RANSON and MATHEW RANSON his wife, to me known to be the persons described in and who executed the foregoing instrument, and acknowledged to me that they executed the same as their free act and deed.

My commission expires: _____

 _____
Notary Public in and for
Harris County,
State of Texas

STATE OF)
) SS.
COUNTY OF)

On this _____ day of _____, 195__, before me personally appeared _____, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that _____ he executed the same as _____ free act and deed.

My commission expires: _____

Notary Public in and for
County,
State of _____

PHILLIPS PETROLEUM COMPANY

10th Floor West Wing - Phillips Building

BARTLESVILLE, OKLAHOMA

August 27, 1953

OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

AUG 31 1953

Re: San Juan 28-6 Unit
San Juan 28-6 Mesa Well #1-14
Mesaverde Formation
Section 14-28N-6W, N.M.P.M.,
Rio Arriba County, New Mexico

El Paso Natural Gas Company

Designated Operator of San Juan 28-6 Unit upon approval

1010 Bassett Tower

El Paso, Texas

Gentlemen:

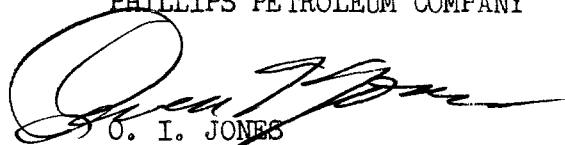
Confirming our telephone conversation Phillips Petroleum Company's San Juan 28-6 Mesa Well No. 1-14, located 990' from the north and east lines of Section 14, Township 28 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on June 29, 1953, and reached total depth of 5703' on August 4, 1953. 10 3/4" surface casing was set at 172' and cemented with 195 sacks. 7" casing was set at 4931.91' RKB and cemented with 300 sacks. The Mesaverde pay section between 5015' and 5703' was shot with 1932 quarts of SNG nitroglycerin.

On August 23, 1953, following sixteen day shut-in period at which time SITP was 1062 psig and SICP was 1064 psig, the well was blown for three hours pursuant to State regulations and gauged with pitot tube for 3210 MCFGPD.

We feel this constitutes a "discovery" on San Juan 28-6 Unit when Unit is officially approved and accordingly request that you give Notices as required by the Unit Agreement.

Very truly yours

PHILLIPS PETROLEUM COMPANY



O. I. JONES
San Juan Division

Airmail

Special Delivery

OIJ:pw

Attach.

July 15, 1953

Mr. William C. Webb
Attorney at Law
Turner, White, Atwood, McLane and Francis
1711 Mercantile Bank Building
Dallas 1, Texas

Re: San Juan 28-6 and San Juan 30-4
Unit Agreements, Rio Arriba
County, New Mexico

Dear Sir:

Reference is made to your applications for the above Unit Agreements approved by the Oil Conservation Commission on May 26, 1953. We have not received the necessary fees at this office based on \$5.00 per section or fraction thereof of the lands included in each unit area. Copies of the proposed Unit Agreements were not forwarded to this office with the Unit Applications, therefore, we have not checked the acreage involved with our leases and tract books.

In the event that all Sections appearing on your application were approved the fees due our office are as follows:

San Juan 28-6	\$235.00
San Juan 30-4	\$205.00

The leases and tract books can not be posted until such time as we receive executed copies of the Unit Agreements.

Very truly yours,

E. S. WALKER
Commissioner of Public Lands

cc: El Paso Natural Gas Company (1)
Oil Conservation Commission (1) ✓
U. S. Geological Survey (3)

TURNER, ATWOOD, WHITE, McLANE AND FRANCIS

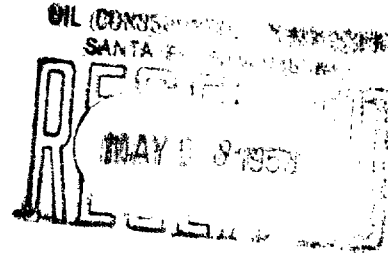
ATTORNEYS AND COUNSELORS AT LAW

SUITE 1711 MERCANTILE BANK BUILDING

DALLAS 1, TEXAS

May 15, 1953

J. GLENN TURNER
FELIX ATWOOD
W. D. WHITE
ALFRED E. McLANE
EDWARD L. FRANCIS
JAMES B. FRANCIS
TREVOR REES-JONES
WM. V. COUNTS
HARRY S. WELCH
THOS. R. HARTNETT III
H. L. HITCHINS, JR.
WILLIAM L. MCINERNEY
WILLIAM G. WEBB
JULIAN M. MEER



Mr. W. B. Macey
Chief Engineer
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Dear Mr. Macey:

We are in receipt of your letter dated May 13, 1953, in which you advise that the Oil Conservation Commission of New Mexico will meet to consider cases numbered 543 and 544 and being respectively El Paso Natural Gas Company's Applications for approval of the San Juan 28-6 and San Juan 30-4 Unit Agreements, on May 26, 1953.

If we may be of any assistance to you prior to such hearings please do not hesitate to call upon us.

Yours very truly,

TURNER, WHITE, ATWOOD, McLANE
AND FRANCIS

By 
William G. Webb

WGW:jco

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

May 13, 1953

C
O
P
Y

Mr. William G. Webb
Turner, Atwood, White, McLane & Francis
1711 Mercantile Bank Building
DALLAS 1 - TEXAS

Dear Mr. Webb:

Here is the status of hearings set for El Paso Natural Gas Company units for which you have currently submitted petitions:

May 19 (regular) hearing:

Case 540: San Juan 27-5 Unit

May 26 (special) hearing:

Case 543: San Juan 28-6 Unit and

Case 544: San Juan 30-4 Unit

Mr. Ben Howell submitted application in Case 540 in time for it to be advertised for the regular May 19 hearing. With preliminary information supplied by Mr. Foster Morrell the latter two were advertised for the special May 26 hearing, and we have today received your follow-up material in these cases.

Very truly yours,

W. B. Macey
Chief Engineer

WBM:mr

cc: Mr. Ben Howell, El Paso
Mr. Foster Morrell, Roswell

TURNER, ATWOOD, WHITE, McLANE AND FRANCIS

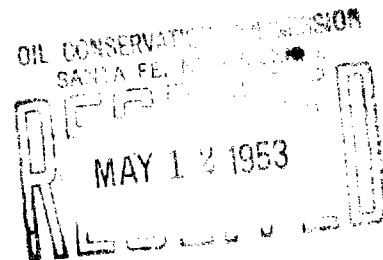
ATTORNEYS AND COUNSELORS AT LAW

SUITE 1711 MERCANTILE BANK BUILDING

DALLAS 1, TEXAS

May 11, 1953

J. GLENN TURNER
FELIX ATWOOD
W. D. WHITE
ALFRED E. McLANE
EDWARD L. FRANCIS
JAMES B. FRANCIS
TREVOR REES-JONES
WM. V. COUNTS
HARRY S. WELCH
THOS. R. HARTNETT III
H. L. HITCHINS, JR.
WILLIAM L. McINERNEY
WILLIAM G. WEBB
JULIAN M. MEER



Secretary
Oil Conservation Commission
of New Mexico
Capitol Building
Santa Fe, New Mexico

Gentlemen:

Please find enclosed herewith the Application of El Paso Natural Gas Company for approval of the San Juan 28-6 and San Juan 30-4 Unit Agreements covering lands situated in Rio Arriba County, New Mexico. We are also enclosing copies of the proposed Unit Agreements and Exhibits thereto. In this connection please be advised that the Exhibits, as submitted are not entirely correct at this time due to the fact that certain working interest owners have not yet advised us as to the present status of their interest.

It is our understanding that you have agreed to the hearing of these Applications on May 26, 1953, and if you would confirm this understanding we will greatly appreciate the courtesy.

Yours very truly,

TURNER, WHITE, ATWOOD, McLANE
AND FRANCIS

By William G. Webb
William G. Webb

WGW:jcc
Enclosures