



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

March 26, 1975

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

445

Gentlemen:

The revised twentieth, twenty-first and twenty-second revisions of the Dakota participating area for the San Juan 28-7 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-459, were approved on March 26, 1975, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of January 1, May 1, and June 1, 1974, respectively. By such revisions the Dakota participating area is enlarged from 14,731.72 acres to 17,779.47 acres.

The revised twentieth revision of the Dakota participating area adds 1,447.85 acres described as lots 1, 2, $N\frac{1}{2}SE\frac{1}{4}$, $NE\frac{1}{4}$ sec. 36, T. 28 N., R. 7 W., and lots 3, 4, $S\frac{1}{2}NW\frac{1}{4}$, $SW\frac{1}{4}$ sec. 4, $W\frac{1}{2}$ sec. 9, $NW\frac{1}{4}$ sec. 27, $N\frac{1}{2}$ sec. 28, T. 27 N., R. 7 W., N.M.P.M., and is based on the completions of San Juan unit wells Nos. 183 in the $NE\frac{1}{4}$ sec. 1 and 184 in the $SW\frac{1}{4}$ sec. 9, and Rincon unit well No. 203 in the $SW\frac{1}{4}$ sec. 27, all in T. 27 N., R. 7 W. Well No. 183 was completed on January 9, 1974, for a calculated absolute open flow potential of 4256 MCFGPD from the Dakota 7046-7248 feet. Well No. 184 was completed on January 28, 1974, for a calculated absolute open flow potential of 2388 MCFGPD from the Dakota 7507-7728 feet. Well No. 203 was completed on January 24, 1974, for a calculated absolute open flow potential of 5528 MCFGPD from the Dakota 7344-7547 feet.

The twenty-first revision of the Dakota participating area adds 640 acres described as the $W\frac{1}{2}$ sec. 17 and $W\frac{1}{2}$ sec. 20, T. 27 N., R. 7 W., N.M.P.M., and is based on the completion of unit well No. 185 in the $SW\frac{1}{4}$ sec. 17, T. 27 N., R. 7 W. Well No. 185 was completed on May 31, 1974, for a calculated absolute open flow potential of 2663 MCFGPD from the Dakota 7296-7514 feet.

The twenty-second revision of the Dakota participating area adds 959.90 acres described as lots 1, 2, $S\frac{1}{2}NE\frac{1}{4}$, $SE\frac{1}{4}$ sec. 5 and all of sec. 8,

T. 27 N., R. 7 W., N.M.P.M., and is based on the completion of unit well No. 216 in the NE $\frac{1}{4}$ sec. 8, T. 27 N., R. 7 W. Well No. 216 was completed on June 12, 1974, for a calculated absolute open flow potential of 2926 MCFGPD from the Dakota 7520-7724 feet.

Copies of the approved application are being distributed to the Federal offices involved, 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,

(ORIG. SGD) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

Durango (w/cy appln)

BLM, Santa Fe (ltr only)

NMOCC, Santa Fe (ltr only)

Com. Pub. Lands, (ltr only)

Santa Fe

DMaldonado:ds

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

445

January 27, 1975

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

Attention: Mr. D. N. Canfield

Re: 1975 Drilling Program,
San Juan 28-7 Unit, Rio
Arriba County, New Mexico,

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1975 providing for the drilling of twenty-eight wells for the San Juan 28-7 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

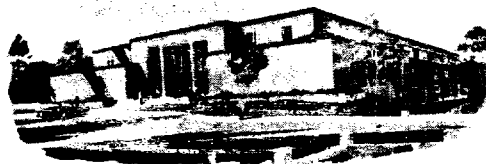
ABP/WEA/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico



State of New Mexico



TELEPHONE
505-827-2748

Commissioner of Public Lands

January 23, 1975

PHIL R. LUCERO
COMMISSIONER

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

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

Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
1975 DRILLING PROGRAM

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1975 Drilling Program for the San Juan 28-7 Unit, Rio Arriba County, New Mexico, proposing the drilling of well No. 213, Chacra formation; in addition to those wells previously listed as being carried forward from the 1974 Drilling Program.

One approved copy of the plan is enclosed.

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

Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

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

PHL/RDG/s
encls.
cc:

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

El Paso Natural Gas Company

El Paso, Texas 79978

January 15, 1975

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 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
1975 DRILLING PROGRAM

Gentlemen:

By letters of February 28, 1974 and June 24, 1974, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program and Supplemental Drilling Program on the captioned unit for the calendar year 1974, providing for the drilling of twenty-nine (29) Dakota wells, three (3) Pictured Cliffs wells, four (4) Pictured Cliffs-Chacra wells and five (5) Chacra wells.

The completion of the #216 Dakota well will occasion the Twenty-Second Expansion of the Dakota Participating Area, effective June 1, 1974. The numbers 214, 215, 218 and 220 Dakota wells and the #196 Pictured Cliffs well were completed on acreage already included in the Dakota and Pictured Cliffs Participating Areas and do not cause an expansion of the Participating Areas. Pictured Cliffs-Chacra well #206 was completed on acreage included in the Pictured Cliffs Participating Area and did not cause an expansion of the Pictured Cliffs Participating Area. The Chacra zone of the #206 well is not included in the Chacra Participating Area and is currently being evaluated to determine if the well will cause an expansion of the Chacra Participating Area. Dakota wells numbers 228, 229, 230, 231, 232 and 238 have been completed, but are currently being evaluated to determine if they will cause an expansion of the Dakota Participating Area.

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

The following list of wells, previously approved to be drilled in 1974, will not be drilled until 1975 due to a shortage of tubular goods:

<u>Well No.</u>	<u>Drilling Block</u>	<u>Formation</u>
197	E/2 Section 11, T-27-N, R-7-W	Pictured Cliffs
200	W/2 Section 30, T-28-N, R-7-W	Pictured Cliffs
201	E/2 Section 7, T-27-N, R-7-W	Pictured Cliffs-Chacra
202	E/2 Section 8, T-27-N, R-7-W	Pictured Cliffs-Chacra
207	W/2 Section 21, T-27-N, R-7-W	Pictured Cliffs-Chacra
117	W/2 Section 6, T-27-N, R-7-W	Chacra
208	W/2 Section 15, T-27-N, R-7-W	Chacra
210	W/2 Section 21, T-27-N, R-7-W	Chacra
211	W/2 Section 22, T-27-N, R-7-W	Chacra
212	W/2 Section 27, T-27-N, R-7-W	Chacra
100	E/2 Section 30, T-27-N, R-7-W	Dakota
111	W/2 Section 20, T-27-N, R-7-W	Dakota
113	E/2 Section 18, T-27-N, R-7-W	Dakota
217	N/2 Section 28, T-27-N, R-7-W	Dakota
219	W/2 Section 20, T-28-N, R-7-W	Dakota
221	E/2 Section 25, T-28-N, R-7-W	Dakota
222	W/2 Section 25, T-28-N, R-7-W	Dakota
223	E/2 Section 26, T-28-N, R-7-W	Dakota
224	E/2 Section 28, T-28-N, R-7-W	Dakota
225	E/2 Section 34, T-28-N, R-7-W	Dakota
226	W/2 Section 36, T-28-N, R-7-W	Dakota
227	E/2 Section 36, T-28-N, R-7-W	Dakota
233	N/2 Section 14, T-28-N, R-7-W	Dakota
234	E/2 Section 15, T-28-N, R-7-W	Dakota
235	S/2 Section 10, T-28-N, R-7-W	Dakota
236	E/2 Section 6, T-27-N, R-7-W	Dakota
237	E/2 Section 19, T-27-N, R-7-W	Dakota
239	W/2 Section 17, T-28-N, R-7-W	Dakota

As of this date the total number of wells in the San Juan 28-7 Unit on acreage committed to the Unit is as follows:

Pictured Cliffs	38
Mesaverde	50
Dual Pictured Cliffs-Mesaverde	26
Dual Pictured Cliffs-Chacra	13
Dual Mesaverde-Dakota	2
Dakota	47
Chacra	1
Non-Commercial Pictured Cliffs	4
Non-Commercial Mesaverde	2
Non-Commercial Dakota	1
Plugged and Abandoned	2
Dual Pictured Cliffs-Chacra (Chacra Non-Commercial)	1
	<u>187</u>

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

Pursuant to Section 10 of the San Juan 28-7 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1975, providing for the drilling of the following well in addition to those wells previously listed as being carried forward from the 1974 Drilling Program:

<u>Well</u>	<u>Drilling Block</u>	<u>Formation</u>
213	E/2 Section 29, T-27-N, R-7-W	Chacra

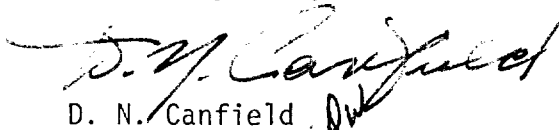
All of the working interest owners have been contacted and this Drilling Program reflects the desire of a majority of the owners. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

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

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

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

Yours very truly,


D. N. Canfield
Director of Land
Energy Resource Development

DNC:DW:km
Attachments
San Juan 28-7, 3.0

APPROVED: _____ DATE: _____

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

APPROVED: _____ DATE: _____

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

APPROVED: _____ DATE: January 27, 1975

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 1975 Drilling Program for the
San Juan 28-7 Unit #14-08-001-459, Rio Arriba County, New Mexico.

SAN JUAN 28-7 UNIT
Working Interest Owners

Amoco Production Company

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss,
Executrix of the Estate of A.
Harvey Arant, Deceased

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co.

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J.
Simmons, Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

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

Jim

445

January 7, 1975

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

Attention: Mr. James R. Permenter

Re: Revised Twentieth, Twenty-First
and Twenty-Second Expanded
Dakota Participating Area, San
Juan 23-7 Unit, Rio Arriba
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Revised Twentieth, Twenty-First, and Twenty-Second Expanded Participating Areas, Dakota Formation for the San Juan 28-7 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 returned to the Commissioner of Public Lands.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

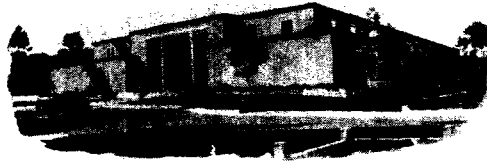
ALP/JEK/og

cc: United States Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
Santa Fe, New Mexico

State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

December 31, 1974

P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
REVISED TWENTIETH, TWENTY-FIRST
AND TWENTY-SECOND EXPANDED PARTI-
CIPATING AREAS, DAKOTA FORMATION
EFFECTIVE January 1, 1974, May 1,
1974 and June 1, 1974, respectively

ATTENTION: Mr. James K. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved the Revised Twentieth, Twenty-First and Twenty-Second Expanded Participating areas for the Dakota Formation for the San Juan 28-7 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 eight (8) copies of the application to the Oil Conservation Commission requesting them to forward five (5) copies to the United States Geological Survey at Roswell, New Mexico for their consideration. Two (2) copies to be returned to the Commissioner of Public Lands and one (1) copy must be retained by the Oil Conservation Commission. After this application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso Natural Gas Company.

Very truly yours,

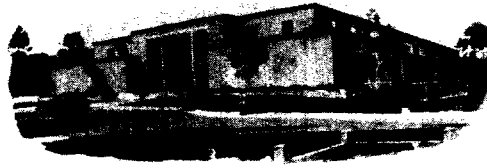
RAY D. GRAHAM, Director
Oil and Gas Division

AJA/RDG/s

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

State of New Mexico

TELEPHONE
505-827-2748



445

Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

December 27, 1974

P. O. Box 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
FOURTH EXPANDED PARTICIPATING
AREA, Chacra Formation, Effective
June 1, 1974

ATTENTION: Mr. James R. Permenter

Gentlemen:

This will acknowledge receipt of three copies of the Fourty
Expanded Participating Area, Chacra Formation, effective June 1, 1974.

Inasmuch as this needs no official approval, the Commissioner of
Public Lands accepts the instruments for record purposes and have this
date been filed in the unit file.

We are retaining two copies for our files and returning one copy
to you showing the date received in this office.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
encl.
cc:

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

State of New Mexico

TELEPHONE
505-827-2748



445

Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

December 27, 1974

P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
REVISED TWENTY-SIXTH EXPANDED
PARTICIPATING AREA, Pictured Cliffs
Formation, Effective June 1, 1974

ATTENTION: Mr. James R. Permenter

Gentlemen:

This will acknowledge receipt of three copies of the REVISED TWENTY-SIXTH EXPANDED PARTICIPATING AREA, Pictured Cliffs Formation, effective June 1, 1974. This revision is being submitted as per the USGS request of October 9, 1974.

Inasmuch as this needs no official approval, the Commissioner of Public Lands accepts the instruments in lieu of the ones filed September 20, 1974, and have this date been filed in the unit file.

We are retaining two copies for our files and returning one copy to you showing the date received in this office.

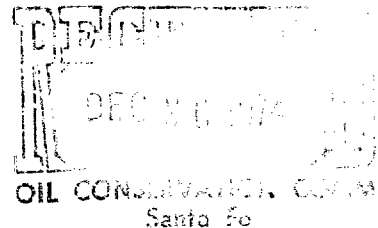
Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Division

AJA/RDG/s
encl.

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

445
December 23, 1974



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

Re: San Juan 28-7 Unit #14-08-001-459,
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
REVISED TWENTIETH, TWENTY-FIRST
and TWENTY-SECOND EXPANDED PARTI-
CIPATING AREAS, DAKOTA FORMATION
Effective January 1, 1974, May 1,
1974 and June 1, 1974, respectively

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the Revised 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
Supervising Landman
Land Department
Energy Resource Development

JRP:DW:km
Enclosures

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

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

bcc: Mr. R. F. Lemon
Mr. John Ahlm

El Paso Natural Gas Company

El Paso, Texas 79901

December 23, 1974

445

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 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
REVISED TWENTY-SIXTH EXPANDED
PARTICIPATING AREA, Pictured Cliffs
Formation, Effective June 1, 1974

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that two (2) wells capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation have been completed upon acreage committed to this Unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include these wells as follows:

The San Juan 28-7 Unit #178 Well, located 940' from the South line and 800' from the East line of Section 31, Township 28 North, Range 7 West, N.M.P.M., was spudded on December 20, 1973, and completed on January 30, 1974 at a total depth of 2917'. The Pictured Cliffs Formation in the intervals between 2708'-2722' and 2732'-2740' was treated with a sand-water fracturing process on April 15, 1974. The well was shut-in on April 19, 1974, and after being shut-in for forty-one (41) days the Pictured Cliffs Formation was tested on May 30, 1974, and after a three-hour blow-down period the well gauged 1461 MCF/D through a 3/4" choke and 1488 MCF/D by the calculated absolute open-flow method, with an SIPC of 1026 psia. The drilling block for this well is described as the SE/4 of Section 31, Township 28 North, Range 7 West, containing 155.00 acres.


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

The San Juan 28-7 Unit #179 Well, located 1075' from the South line and 1135' from the East line of Section 7, Township 28 North, Range 7 West, N.M.P.M., was spudded on January 5, 1974, and completed on January 12, 1974, at a total depth of 3532'. The Pictured Cliffs Formation in the intervals between 3413'-3434' was treated with a sand-water fracturing process on April 8, 1974. The well was shut-in on April 16, 1974, and after being shut-in for twenty-seven (27) days the Pictured Cliffs Formation was tested on May 13, 1974, and after a three-hour blow-down period the well gauged 2807 MCF/D through a 3/4" choke and 3003 MCF/D by the calculated absolute open-flow method, with an SIPC of 1064 psia. The drilling block for this well is described as the S/2 of Section 7, Township 28 North, Range 7 West, containing 299.12 acres.

Attached is Schedule XXVII showing the Revised Twenty-Sixth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 28-7 Unit Area. This describes the 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 Revised Twenty-Sixth Expanded Participating Area will become effective as of June 1, 1974.

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

Yours very truly, *DW*


James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DW:km
Attachments
San Juan 28-7 Unit 4.1

WORKING INTEREST OWNERS
San Juan 28-7 Unit

Amoco Production Company

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley E. Hotchkiss, Exec. of the
Estate of A. Harvey Arant, Dec'd.

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co.

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Indep.
Exec. of the Estate of D. J. Simmons, Dec'd.

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79901

December 23, 1974

RECEIVED
DEC 26 9 16 AM '74
STATE LAND OFFICE

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 28-7 Unit #14-08-001-459,
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
REVISED TWENTIETH, TWENTY-FIRST
and TWENTY-SECOND EXPANDED PARTI-
CIPATING AREAS, DAKOTA FORMATION
Effective January 1, 1974, May 1,
1974, and June 1, 1974, respectively

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Revised Twentieth, Twenty-First and Twenty-Second Expanded Participating Areas for the Dakota Formation, to wit:

REVISED TWENTIETH EXPANDED PARTICIPATING AREA -
Effective January 1, 1974

<u>Description of Lands</u>	<u>Acres</u>
Township 28 North, Range 7 West, N.M.P.M. Section 36: Lots 1,2, N/2 SE/4, NE/4 (E/2)	328.06
Township 27 North, Range 7 West, N.M.P.M. Section 4: Lots 3,4, S/2 NW/4, SW/4 (W/2) Section 9: W/2 Section 27: NW/4 Section 28: N/2	1,119.79 <u>1,447.85</u>

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

This land is proven to be productive by the following:

The San Juan 28-7 Unit #183 Well, located 1550' from the North line and 1750' from the East line of Section 1, Township 27 North, Range 7 West, N.M.P.M., was spudded on November 3, 1973, and completed on December 29, 1973 at a total depth of 7268'. The Dakota Formation in the intervals of 7046', 7062', 7078', 7138', 7168', 7170', 7196', 7216', 7232', 7248' was treated with a sand-water fracturing process on December 27, 1973. The well was shut-in on December 30, 1973, and after being shut-in for ten (10) days the Dakota Formation was tested on January 9, 1974, and after a three-hour blow-down period the well gauged 4085 MCF/D through a 3/4" choke and 4256 MCF/D by the calculated absolute open-flow method, with an SIPC of 2617 psia and an SIPT of 2139 psia.

The San Juan 28-7 Unit #184 Well, located 1525' from the South line and 1720' from the West line of Section 9, Township 27 North, Range 7 West, N.M.P.M., was spudded on December 1, 1973, and completed on January 19, 1974 at a total depth of 3535'. The Dakota Formation in the intervals of 7507', 7509', 7583', 7620', 7622', 7647', 7686', 7708', 7728' was treated with a sand-water fracturing process on January 16, 1974. The well was shut-in on January 20, 1974, and after being shut-in for eight (8) days the Dakota Formation was tested on January 28, 1974, and after a three-hour blow-down period the well gauged 2344 MCF/D through a 3/4" choke and 2388 MCF/D by the calculated absolute open-flow method, with an SIPC of 2407 psia and an SIPT of 1423 psia.

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

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

TWENTY-FIRST EXPANDED PARTICIPATING AREA -
Effective May 1, 1974

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 27 North, Range 7 West, N.M.P.M.</u>	
Section 17: W/2	320.00
Section 20: W/2	320.00
	<u>640.00</u>

This land is proven productive by the following:

The San Juan 28-7 Unit #185 Well, located 990' from the South line and 1025' from the West line of Section 17, Township 27 North, Range 7 West, N.M.P.M., was spudded on January 17, 1974, and completed on May 31, 1974, in the Dakota Formation at a total depth of 7586'. The Dakota Formation at the intervals 7296', 7322', 7366', 7384', 7428', 7466', 7488' and 7514' was treated with a sand-water fracturing process on May 17, 1974. The well was shut-in on May 19, 1974, and after being shut-in for twelve (12) days the well was tested on May 31, 1974, and following a three (3) hour blow-down period, the Dakota Formation gauged 2461 MCF/D through a 3/4" choke and 2663 MCF/D by the calculated absolute open-flow method, with an SIPC of 2402 psia and an SIPT of 2152 psia. The spacing unit for this well is described as the W/2 of Section 17, Township 27 North, Range 7 West, containing 320.00 acres.

TWENTY-SECOND EXPANDED PARTICIPATING AREA -
Effective June 1, 1974

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 27 North, Range 7 West, N.M.P.M.</u>	
Section 5: Lots 1,2, S/2 NE/4, SE/4 (E/2)	319.90
Section 8: All	640.00
	<u>959.90</u>

This land is proven productive by the following:

The San Juan 28-7 Unit #216 well, located 2290' from the North line and 980' from the East line of Section 8, Township 27 North, Range 7 West, N.M.P.M., was spudded on May 11, 1974, and completed on June 12, 1974, in the Dakota Formation at a total depth of 7748'. The Dakota Formation at the intervals 7520', 7594', 7632', 7662', 7698' and 7724' was treated with a sand-water fracturing process on May 28, 1974. The well was shut-in on May 31, 1974, and after being shut-in for twelve (12) days the well was tested on June 12, 1974, and following a three (3) hour blow-down period, the Dakota Formation gauged 2834 MCF/D through a 3/4" choke and 2926 MCF/D by the calculated absolute open-flow method, with an SIPC of 2504 psia and an SIPT of 2502 psia. The spacing unit for this well is described as the E/2 of Section 8, Township 27 North, Range 7 West, containing 320.00 acres.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Revised Twentieth, Twenty-First and Twenty-Second Expanded Participating Areas of the Dakota Formation within the San Juan 28-7 Unit.

EXHIBIT "B"

Geological Report on the Revised Twentieth, Twenty-First and Twenty-Second Expanded Participating Areas of the Dakota Formation within the San Juan 28-7 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-7 Unit Subsurface Structure Contour Map

Figure No. 2: San Juan 28-7 Unit Isopachous Map

EXHIBIT "D"

Schedule of Dakota Gas Production

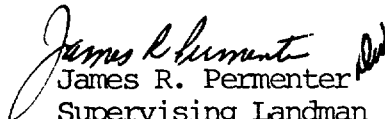
Regional Oil and Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
Page Five

Attached hereto are Schedules XXI, XXII and XXIII showing the proposed Revised Twentieth, Twenty-First and Twenty-Second Expanded Participating Areas for the Dakota Formation in the San Juan 28-7 Unit Area. These schedules describe the Expanded Participating Areas, show the percentages of unitized substances allocated to each unitized tract and the percentages of ownership in each tract.

If these Revised 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

JRP:DW:mcv
Enclosures
SJ 28-7 Unit 4.3

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

APPROVED: _____ DATE: _____

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

APPROVED: *Alfred J. Hennings* DATE: *December 31, 1974*

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

APPROVED: *P. G. L. L. L.* DATE: *January 7, 1975*

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

The foregoing approval is for the San Juan 28-7 Unit #14-08-001-459,
Rio Arriba County, New Mexico.

SAN JUAN 28-7 UNIT
Working Interest Owners

Amoco Production Company

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss
Executrix of the Estate of
A. Harvey Arant, Deceased

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co.

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons
Independent Executrix of the
Estate of D. J. Simmons, Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79901

December 23, 1974

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 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
FOURTH EXPANDED PARTICIPATING
AREA, Chacra Formation, Effective
June 1, 1974

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that three (3) wells capable of producing unitized substances in paying quantities from the Chacra Formation have been completed upon acreage committed to this Unit. The Participating Area for the Chacra Formation is expanded accordingly to include the following wells and acreage:

FOURTH EXPANDED PARTICIPATING AREA - Effective June 1, 1974

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
T-27-N, R-7-W		
Sec. 6: Lots 1,2, S/2 NE/4, SE/4	320.60	SJ 28-7 #168
Sec. 28: N/2	320.00	SJ 28-7 #175
T-28-N, R-7-W		
Sec. 31: Lots 6,7, N/2 SE/4, NE/4	315.00	SJ 28-7 #178.

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

Pertinent data on these wells is as follows:

The San Juan 28-7 Unit #168 well, located 1150' from the North line and 910' from the East line of Section 6, Township 27 North, Range 7 West, N.M.P.M., was spudded on December 12, 1973, and completed on May 30, 1974, in the Chacra Formation at a total depth of 3731'. The Chacra Formation in the intervals between 3640' - 3650' was treated with a sand-water fracturing process on April 18, 1974. The well was shut-in on April 22, 1974, and after being shut-in for thirty-one (31) days the well was tested on May 23, 1974, and following a three (3) hour blow-down period, the Chacra Formation gauged 356 MCF/D through a 3/4" choke and 357 MCF/D by the calculated absolute open-flow method, with an SIPC of 1112 psia. The spacing unit for this well is described as the E/2 of Section 6, Township 27 North, Range 7 West, containing 320.60 acres.

The San Juan 28-7 Unit #175 well, located 1775' from the North line and 1050' from the West line of Section 28, Township 27 North, Range 7 West, N.M.P.M., was spudded on October 23, 1973, and completed on May 31, 1974, in the Chacra Formation at a total depth of 4152'. The Chacra Formation in the intervals between 3876' - 3892' and 4010' - 4026' was treated with a sand-water fracturing process on March 20, 1974. The well was shut-in on April 5, 1974, and after being shut-in for forty-nine (49) days the well was tested on May 24, 1974, and following a three (3) hour blow-down period, the Chacra Formation gauged 844 MCF/D through a 3/4" choke and 849 MCF/D by the calculated absolute open-flow method, with an SIPC of 1040 psia. The spacing unit for this well is described as the N/2 of Section 28, Township 27 North, Range 7 West, containing 320.00 acres.

The San Juan 28-7 Unit #178 well, located 940' from the South line and 800' from the East line of Section 31, Township 28 North, Range 7 West, N.M.P.M., was spudded on December 20, 1973, and completed on May 30, 1974, in the Chacra Formation at a total depth of 3695'. The Chacra Formation in the intervals between 3648' - 3660' was treated with a sand-water fracturing process on April 15, 1974. The well was shut-in on April 22, 1974, and after being shut-in for thirty-one (31) days the well was tested on May 23, 1974, and following a three (3) hour blow-down

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

period, the Chacra Formation gauged 523 MCF/D through a 3/4" choke and 524 MCF/D by the calculated absolute open-flow method, with an SIPC of 1119 psia. The spacing unit for this well is described as the E/2 of Section 31, Township 28 North, Range 7 West, containing 315.00 acres.

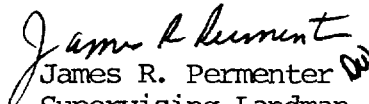
In addition to the above, the completion of well #175 creates two (2) intervening drilling blocks, which pursuant to the terms of paragraph 11(a) of the Unit Agreement, will also be admitted to the Participating Area. These intervening drilling blocks are described as follows:

T-27-N, R-7-W
Sec. 21: W/2
Sec. 29: E/2
Containing 640.00 acres, more or less

Attached is Schedule V showing the Fourth Expanded Participating Area for the Chacra Formation of the San Juan 28-7 Unit Area. This describes the 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 June 1, 1974.

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:DW:km
Attachment
San Juan 28-7 Unit 4.4

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

SAN JUAN 28-7 UNIT
Working Interest Owners

Amcco Production Company

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss ,
Executrix of the Estate of A.
Harvey Arant, Deceased

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co.

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J.
Simmons Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79978

December 5, 1974

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 28-7 Unit, #14-08-001-459,
NOTICE OF COMPLETION OF ADDITIONAL
WELLS. Pictured Cliffs Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 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 Pictured Cliffs Formation have been completed upon acreage committed to the Unit. These wells are as follows:

The San Juan 28-7 Unit #196 well, located 860' from the South line and 1840' from the East line of Section 10, Township 27 North, Range 7 West, N.M.P.M., was spudded on August 8, 1974, and completed on October 15, 1974, in the Pictured Cliffs Formation at a total depth of 3335'. The Pictured Cliffs Formation in the intervals between 3162' - 3178' and 3194' - 3210' was treated with a sand-water fracturing process on September 10, 1974. The well was shut-in on October 2, 1974, and after being shut-in for thirteen (13) days the well was tested on October 15, 1974, and following a three (3) hour blow-down period, the Pictured Cliffs Formation gauged 1462 MCF/D through a 3/4" choke and 1495 MCF/D by the calculated absolute open-flow method, with an SIPC of 962 psia. The spacing unit for this well is described as the E/2 of Section 10, Township 27 North, Range 7 West, containing 320.00 acres.

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


The spacing unit for this well was included in the San Juan 28-7 Unit, Eighteenth Expanded Pictured Cliffs Participating Area effective August 1, 1958, and the completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The San Juan 28-7 Unit #206 well, located 790' from the North line and 1850' from the East line of Section 20, Township 27 North, Range 7 West, N.M.P.M., was spudded on August 14, 1974, and completed on November 5, 1974, in the Pictured Cliffs Formation at a total depth of 3090'. The Pictured Cliffs Formation in the intervals between 2950' - 2966' and 2988' - 3002' was treated with a sand-water fracturing process on September 10, 1974. The well was shut-in on October 3, 1974, and after being shut-in for thirty-three (33) days the well was tested on November 5, 1974, and following a three (3) hour blow-down period, the Pictured Cliffs Formation gauged 1309 MCF/D through a 3/4" choke and 1334 MCF/D by the calculated absolute open-flow method, with an SIPC of 923 psia. The spacing unit for this well is described as the E/2 of Section 20, Township 27 North, Range 7 West, containing 320.00 acres.

The spacing unit for this well was included in the San Juan 28-7 Unit, Initial Expanded Pictured Cliffs Participating Area effective January 29, 1953 and the completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

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

Yours very truly,


James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DW:km
Attachment
San Juan 28-7 Unit 4.1.1

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

SAN JUAN 28-7 UNIT
Working Interest Owners

Amoco Production Company

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss,
Executrix of the Estate of A.
Harvey Arant, Deceased

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co.

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J.
Simmons, Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79978

December 5, 1974

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 28-7 Unit #14-08-001-459
NOTICE OF COMPLETION OF ADDITIONAL
WELLS, Dakota Formation

Gentlemen:

Pursuant to Section 11 of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the test dates indicated that two (2) additional wells capable of producing unitized substances in paying quantities from the Dakota Formation, have been completed upon acreage committed to this Unit.

These wells are as follows:

The San Juan 28-7 Unit #215 well, located 1460' from the South line and 1550' from the West line of Section 4, Township 27 North, Range 7 West, N.M.P.M., was spudded on May 1, 1974, and completed on June 25, 1974, in the Dakota Formation at a total depth of 7746'. The Dakota Formation in the intervals of 7512', 7526', 7592', 7632', 7688', 7712' and 7730' was treated with a sand-water fracturing process on June 13, 1974. The well was shut-in on June 18, 1974, and after being shut-in for seven (7) days the well was tested on June 25, 1974, and following a three (3) hour blow-down period, the Dakota Formation gauged 3424 MCF/D through a 3/4" choke and 4494 MCF/D by the calculated absolute open-flow method, with an SIPC of 2127 psia and an SIPT of 2089 psia. The spacing unit for this well is described as the W/2 of Section 4, Township 27 North, Range 7 West, containing 319.79 acres.

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


The spacing unit for this well was included in the San Juan 28-7 Unit, Twentieth Expanded Dakota Participating Area effective January 1, 1974, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

The San Juan 28-7 Unit #218 well, located 1175' from the South line and 1540' from the West line of Section 12, Township 28 North, Range 7 West, N.M.P.M., was spudded on June 6, 1974, and completed on July 9, 1974, in the Dakota Formation at a total depth of 7919'. The Dakota Formation in the intervals of 7700', 7734', 7766', 7792', 7803', 7840', 7865' and 7876' was treated with a sand-water fracturing process on June 22, 1974. The well was shut-in on June 24, 1974 and after being shut-in for fifteen (15) days the well was tested on July 9, 1974, and following a three (3) hour blow-down period, the Dakota Formation gauged 4066 MCF/D through a 3/4" choke and 4195 MCF/D by the calculated absolute open-flow method, with an SIPC of 2641 psia and an SIPT of 2638 psia. The spacing unit for this well is described as Lots 1,2,3,4, S/2 S/2 Section 12, and Lot 1 Section 11, Township 28 North, Range 7 West. containing 321.22 acres.

The spacing unit for this well was included in the San Juan 28-7 Unit, Nineteenth Expanded Dakota Participating Area effective August 1, 1973, and the completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

Yours very truly,


James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DW:km
Attachment
San Juan 28-7 Unit 4.3.1

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

SAN JUAN 28-7 UNIT
Working Interest Owners

Amoco Production Company

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss,
Executrix of the Estate of A.
Harvey Arant, Deceased

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co.

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J.
Simmons, Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79978

December 5, 1974

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 28-7 Unit #14-08-001-459
NOTICE OF COMPLETION OF NON-
COMMERCIAL WELL, Chacra Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-7 Unit Agreement #14-08-001-459, approved November 18, 1952, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that the following-described well, completed on lands committed to the San Juan 28-7 Unit, is not capable of producing unitized substances in paying quantities from the Chacra Formation:

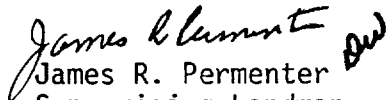
The San Juan 28-7 Unit #167 well, located 1710' from the South line and 1830' from the West line of Section 5, Township 27 North, Range 7 West, N.M.P.M., was spudded on December 6, 1973, and completed on May 28, 1974, in the Chacra Formation at a total depth of 4333'. The Chacra Formation in the intervals between 4230' - 4236', 4242' - 4248' and 4276' - 4282' was treated with a sand-water fracturing process on February 28, 1974. The well was shut-in on April 30, 1974, and after being shut-in for twenty-eight (28) days the well was tested on May 28, 1974, and following a three (3) hour blow-down period, the Chacra Formation gauged 190 MCF/D through a 3/4" choke and 190 MCF/D by the calculated absolute open-flow method, with an SIPC of 1062 psia. The spacing unit for this well is described as the W/2 of Section 5, Township 27 North, Range 7 West, containing 320.52 acres.

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

The determination that the foregoing well is non-commercial was made on November 19, 1974.

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

Yours very truly,


James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:DW:km
Attachment
San Juan 28-7 Unit 4.4, 4.4.1

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

SAN JUAN 28-7 UNIT
Working Interest Owners

Amoco Production Company

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss,
Executrix of the Estate of A.
Harvey Arant, Deceased

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co.

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J.
Simmons, Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

4/8

October 21, 1974

Northwest Pipeline Corporation
One Park Central, Suite 1487
Denver, Colorado 80202

Attention: Betty R. Burnett

Re: 1974 Drilling Program (Revised)
San Juan 29-5 Unit, Rio Arriba
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Revised Drilling Program for the calendar year 1974 providing for the drilling of two Mesaverde wells for the San Juan 29-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Three approved copies of the application are returned herewith.

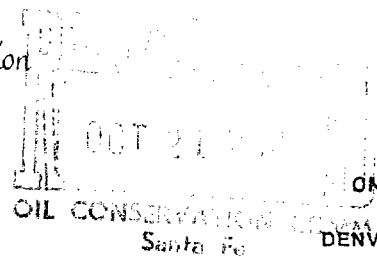
Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

Northwest Pipeline Corporation



ONE PARK CENTRAL
SUITE 1487
DENVER, COLORADO 80202
303- 623-9303

JOHN M. PARKER

DIRECTOR OF EXPLORATION

October 17, 1974

Mr. Carl C. Traywick
Acting Area Oil & Gas Supervisor
United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
State of New Mexico
Attention: Mr. Ray D. Graham
Post Office Box 1148
Santa Fe, New Mexico 87501

Oil Conservation Commission
State of New Mexico
Attention: Mr. A. L. Porter, Jr.
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: San Juan 29-5 Unit #14-08-001-437
Rio Arriba County, New Mexico
1974 Drilling Program (Revised)

Gentlemen:

By letter dated February 28, 1974, El Paso Natural Gas Company, the then Unit Operator, filed a drilling program providing for no wells.

Northwest Pipeline Corporation has been in touch with the working interest owners and has received the necessary concurrence to propose the drilling of the following wells during 1974:

<u>Well #</u>	<u>Drilling Block</u>	<u>Formation</u>
61	E $\frac{1}{2}$, Section 9, Township 29 North, Range 5 West	Mesaverde
74	W $\frac{1}{2}$, Section 17, Township 29 North, Range 5 West	Mesaverde

Well #61 will be drilled on a spacing unit not presently within the existing Mesaverde Participating Area, in order to extend the limits of the Participating Area. Well #74 will be drilled on a spacing unit presently within the Mesaverde Participating Area.

In addition to the #61 and #74 wells, Northwest Pipeline Corporation, as Unit Operator, will drill any offset wells required to prevent drainage of unitized substances, and any other wells deemed necessary by the Unit Operator and the working interest owners.

Acting Area Oil & Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission


October 17, 1974

Page 2

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

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

Very truly yours,


Betty R. Burnett
Supervisor of Contracts & Units

BRB: jg
cc: Working interest owners

APPROVED: _____ DATE: _____

Area 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:  DATE: October 21, 1974

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

The foregoing approvals are for the Revised 1974 Drilling Program for
the San Juan 29-5 Unit #14-08-001-437, Rio Arriba County, New Mexico.

SAN JUAN 29-5 UNIT

Working Interest Owners

Sun Oil Company
Attention: V. M. Williams
P.O. Box 2880
Dallas, TX 75221

Phillips Petroleum Company
Attention: Mr. N. N. Beckner
1000 Security Life Building
Denver, CO 80202

Mr. Forrest B. Miller and
Mabelle M. Miller
1224 Lois Street
P. O. Box 1445
Kerrville, TX 78028

Koch Industries, Inc.
P. O. Box 2256
Wichita, KS 67201

General American Oil Company
of Texas
Attention: Mr. L. E. Dooley
Meadows Building
Dallas, TX 75206

Amoco Production Company
Attention: Mr. T. M. Curtis
Security Life Building
Denver, CO 80202

The Wiser Oil Company
P. O. Box 2467
Hobbs, NM 88240

Mr. J. William McElvain
310 East Jefferson Street
Morris, IL 60450

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

Mr. James E. McElvain, Executor for
the Estate of Carl R. McElvain, Deceased
309 West Jefferson Street
Morris, IL 60450

Mrs. Catherine B. McElvain,
Individually and as Executrix of the
Estate of T. H. McElvain, Deceased
Box 2148
Santa Fe, NM 87501

Mr. Tom Bolack
1010 North Dustin Drive
Farmington, NM 87401

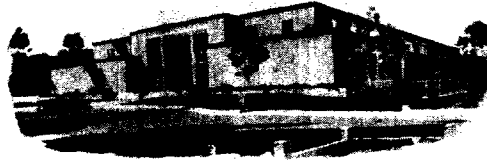
American Petrofina Company of Texas
P. O. Box 2159
Dallas, TX 75221

Ruth M. Vaughan
300 Caversham Road
Bryn Mawr, PN 19010

445
State of New Mexico

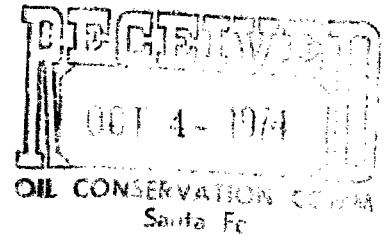
TELEPHONE

505-827-2748



Commissioner of Public Lands

October 2, 1974



ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
FIRST, SECOND AND THIRD EXPANDED
PARTICIPATING AREAS, Chacra Formation,
Effective February 1, 1974 and March 1,
1974, and May 1, 1974, respectively

ATTENTION: Mr. James R. Permenter

Gentlemen:

This will acknowledge receipt of three copies of the First, Second and Third Expanded Participating Areas, Chacra Formation, Effective February 1, 1974, March 1, 1974, and May 1, 1974, respectively.

Inasmuch as this needs no official approval, the Commissioner of Public Lands accepts the instruments for record purposes and have this date been filed in the unit files.

We are retaining two copies for our files and returning one copy to you showing the date received in this office.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

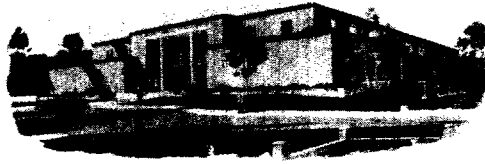
AJA/RDG/s
encl.
cc:

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



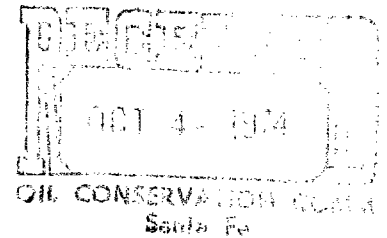
ALEX J. ARMIJO
COMMISSIONER

State of New Mexico



Commissioner of Public Lands

October 2, 1974



P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
TWENTY-SIXTH EXPANDED PARTICIPATING
AREA, Pictured Cliffs Formation
Effective June 1, 1974

ATTENTION: Mr. James R. Permenter

Gentlemen:

This will acknowledge receipt of your letter of September 20, 1974, together with two copies of the Twenty-Sixth Expanded Participating Area, Pictured Cliffs Formation, effective June 1, 1974.

Inasmuch as this needs no official approval, the Commissioner of Public Lands accepts the instruments for record purposes and have this date been filed in the unit file.

We are retaining both copies for our files.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s

en

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

445

El Paso Natural Gas Company

El Paso, Texas 79978

September 20, 1974

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

Oil Conservation Commission
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

Commissioner of Public Lands
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: San Juan 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
TWENTY-SIXTH EXPANDED PARTICIPATING
AREA, Pictured Cliffs Formation
Effective June 1, 1974

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that two (2) wells capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation have been completed upon acreage committed to this Unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include these wells as follows:

The San Juan 28-7 Unit #178 Well, located 940' from the South line and 800' from the East line of Section 31, Township 28 North, Range 7 West, N.M.P.M., was spudded on December 20, 1973, and completed on January 30, 1974 at a total depth of 2917'. The Pictured Cliffs Formation in the intervals between 2708'-2722' and 2732'-2740' was treated with a sand-water fracturing process on April 15, 1974. The well was shut-in on April 19, 1974, and after being shut-in for forty-one (41) days the Pictured Cliffs Formation was tested on May 30, 1974, and after a three-hour blow-down period the well gauged 1461 MCF/D through a 3/4" choke and 1488 MCF/D by the calculated absolute open-flow method, with an SIPC of 1026 psia. The drilling block for this well is described as the E/2 of Section 31, Township 28 North, Range 7 West, containing 315.00 acres.


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

The San Juan 28-7 Unit #179 Well, located 1075' from the South line and 1135' from the East line of Section 7, Township 28 North, Range 7 West, N.M.P.M., was spudded on January 5, 1974, and completed on January 12, 1974, at a total depth of 3532'. The Pictured Cliffs Formation in the intervals between 3414'-3434' was treated with sand-water fracturing process on April 8, 1974. The well was shut-in on April 16, 1974, and after being shut-in for twenty-seven (27) days the Pictured Cliffs Formation was tested on May 13, 1974, and after a three-hour blow-down period the well gauged 2807 MCF/D through a 3/4" choke and 3003 MCF/D by the calculated absolute open-flow method, with an SIPC of 1064 psia. The drilling block for this well is described as the S/2 of Section 7, Township 28 North, Range 7 West, containing 299.21 acres.

Attached is Schedule XXVII showing the Twenty-sixth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 28-7 Unit Area. This describes the 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 First Expanded Participating Area will become effective as of June 1, 1974.

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

Yours very truly,


James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:lj
Attachments
SJ 28-7 Unit 4.1

WORKING INTEREST OWNERS
San Juan 28-7 Unit

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley E. Hotchkiss, Exec. of the
Estate of A. Harvey Arant, Dec'd.

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co.

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Indep.
Exec. of the Estate of D. J. Simmons, Dec'd.

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79978

September 17, 1974

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

Oil Conservation Commission
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

Commissioner of Public Lands
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: San Juan 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
FIRST, SECOND and THIRD EXPANDED
PARTICIPATING AREAS, Chacra
Formation, Effective February 1,
1974, March 1, 1974 and May 1, 1974,
respectively

Gentlemen:

Pursuant to Section 11(b) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that seven (7) wells capable of producing unitized substances in paying quantities from the Chacra Formation have been completed upon acreage committed to this Unit. The Participating Areas for the Chacra Formation are expanded accordingly to include the following wells:

FIRST EXPANDED PARTICIPATING AREA - Effective February 1, 1974

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
T-27-N, R-7-W		
Sec. 9: E/2	320.00	SJ 28-7 #170
Sec. 16: W/2	320.00	SJ 28-7 #172
Sec. 17: E/2	320.00	SJ 28-7 #173

Pertinent data on these wells is as follows:

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

The San Juan 28-7 Unit #170 well, located 810' from the South line and 1790' from the East line of Section 9, Township 27 North, Range 7 West, N.M.P.M., was spudded on September 1, 1973, and completed on September 14, 1973 at a total depth of 4416'. The Chacra Formation in the intervals between 4320'-4336' was treated with a sand-water fracturing process on December 5, 1973. The well was shut-in on December 18, 1973, and after being shut-in for twenty-seven (27) days the Chacra Formation was tested on January 14, 1974, and after a three-hour blow-down period the well gauged 370 MCF/D through a 3/4" choke and 371 MCF/D by the calculated absolute open-flow method, with an SIPC of 1024 psia. The drilling block for this well is described as the E/2 of Section 9, T-27-N, R-7-W, containing 320.00 acres.

The San Juan 28-7 Unit #172 Well, located 1590' from the South line and 1560' from the West line of Section 16, Township 27 North, Range 7 West, N.M.P.M., was spudded on September 3, 1973, and completed on September 24, 1973 at a total depth of 4179'. The Chacra Formation in the intervals between 4016'-4030' was treated with a sand-water fracturing process on December 12, 1973. The well was shut-in on January 22, 1974, and after being shut-in for seven (7) days the Chacra Formation was tested on January 29, 1974 and after a three-hour blow-down period the well gauged 683 MCF/D through a 3/4" choke and 686 MCF/D by the calculated absolute open-flow method, with an SIPC of 1002 psia. The drilling block for this well is described as the W/2 of Section 16, T-27-N, R-7-W, containing 320.00 acres.

The San Juan 28-7 Unit #173 Well, located 1460' from the South line and 1030' from the East line of Section 17, Township 27 North, Range 7 West, N.M.P.M., was spudded on September 20, 1973, and completed on October 2, 1973 at a total depth of 4091'. The Chacra Formation in the intervals between 3976'-3992' was treated with a sand-water fracturing process on January 10, 1974. The well was shut-in on January 24, 1974, and after being shut-in for seven (7) days the Chacra Formation was tested on January 31, 1974, and after a three-hour blow-down period the well gauged 714 MCF/D through a 3/4" choke and 718 MCF/D by the calculated absolute open-flow method, with an SIPC of 1016 psia. The drilling block for this well is described as the E/2 of Section 17, T-27-N, R-7-W, containing 320.00 acres.

Regional Oil and Gas Supervisor
Commissioner of Public Lands
State of New Mexico
Page Three

Attached is Schedule II showing the First Expanded Participating Area for the Chacra Formation of the San Juan 28-7 Unit Area. This describes the 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 First Expanded Participating Area will become effective as of February 1, 1974.

SECOND EXPANDED PARTICIPATING AREA - Effective March 1, 1974

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
T-27-N, R-7-W Sec. 16: E/2	320.00	SJ 28-7 #171

Pertinent data on this well is as follows:

The San Juan 28-7 Unit #171 Well, located 1570' from the South line and 1150' from the East line of Section 16, Township 27 North, Range 7 West, N.M.P.M., was spudded on September 22, 1973, and completed on October 19, 1973 at a total depth of 4129'. The Chacra Formation in the intervals between 4052'-4062' was treated with a sand-water fracturing process on December 17, 1973. The well was shut-in on January 31, 1974, and after being shut-in for seven (7) days the Chacra Formation was tested on February 7, 1974, and after a three-hour blow-down period the well gauged 312 MCF/D through a 3/4" choke and 312 MCF/D by the calculated absolute open-flow method, with an SIPC of 986 psia. The drilling block for this well is described as the E/2 of Section 16, T-27-N, R-7-W, containing 320.00 acres.

Attached is Schedule III showing the Second Expanded Participating Area for the Chacra Formation of the San Juan 28-7 Unit Area. This describes the 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 March 1, 1974.

THIRD EXPANDED PARTICIPATING AREA - Effective May 1, 1974

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
T-27-N, R-7-W		
Sec. 21: E/2	320.00	SJ 28-7 #174
Sec. 29: W/2	320.00	SJ 28-7 #176
Sec. 30: E/2	320.00	SJ 28-7 #177

Pertinent data on these wells is as follows:

The San Juan 28-7 Unit #174 Well, located 870' from the South line and 930' from the East line of Section 21, Township 27 North, Range 7 West, N.M.P.M., was spudded on October 12, 1973, and completed on October 29, 1973 at a total depth of 4085'. The Chacra Formation in the intervals between 3918'-3934' was treated with a sand-water fracturing process on March 19, 1974. The well was shut-in on April 5, 1974, and after being shut-in for twenty-four (24) days the Chacra Formation was tested on April 29, 1974, and after a three-hour blow-down period the well gauged 1555 MCF/D through a 3/4" choke and 1589 MCF/D by the calculated absolute open-flow method, with an SIPC of 1028 psia. The drilling block for this well is described as the E/2 of Section 21, T-27-N, R-7-W, containing 320.00 acres.

The San Juan 28-7 Unit #176 Well, located 1695' from the North line and 1650' from the West line of Section 29, Township 27 North, Range 7 West, N.M.P.M., was spudded on October 24, 1973, and completed on November 23, 1973 at a total depth of 4027'. The Chacra Formation in the intervals between 3822'-3826' was treated with a sand-water fracturing process on March 22, 1974. The well was shut-in on April 5, 1974, and after being shut-in for nineteen (19) days the Chacra Formation was tested on April 24, 1974, and after a three-hour blow-down period the well gauged 1160 MCF/D through a 3/4" choke and 1174 MCF/D by the calculated absolute open-flow method, with an SIPC of 1035 psia. The drilling block for this well is described as the W/2 of Section 29, T-27-N, R-7-W, containing 320.00 acres.

The San Juan 28-7 Unit #177 Well, located 1460' from the South line and 870' from the East line of Section 30, Township 27 North, Range 7 West, N.M.P.M., was spudded on November 13, 1973, and completed on December 4, 1973

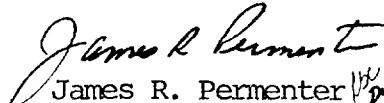
Regional Oil and Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
Page Five

at a total depth of 4031'. The Chacra Formation in the intervals between 3768'-3778', 3838'-3848' and 3972'-3980' was treated with a sand-water fracturing process on March 26, 1974. The well was shut-in on April 5, 1974, and after being shut-in for nineteen (19) days the Chacra Formation was tested on April 24, 1974, and after a three-hour blow-down period the well gauged 620 MCF/D through a 3/4" choke and 622 MCF/D by the calculated absolute open-flow method, with an SIPC of 1037 psia. The drilling block for this well is described as the E/2 of Section 30, T-27-N, R-7-W, containing 320.00 acres.

Attached is Schedule IV showing the Third Expanded Participating Area for the Chacra Formation of the San Juan 28-7 Unit Area. This describes the 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 May 1, 1974.

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

Yours very truly,


James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:RGC:lj
Attachment
SJ 28-7 Unit #4

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

SAN JUAN 28-7 UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss,
Executrix of the Estate of A.
Harvey Arant, Deceased

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co.

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J.
Simmons, Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79975

August 21, 1974

Regional Oil and Gas Supervisor
United States Geological Surver
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 28-7 Unit #14-08-001-459
NOTICE OF COMPLETION OF ADDITIONAL
WELLS, Dakota Formation

Gentlemen:

Pursuant to Section 11 of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the test dates indicated that two (2) additional wells capable of producing unitized substances in paying quantities from the Dakota Formation, have been completed upon acreage committed to this Unit.

These wells are as follows:

The San Juan 28-7 Unit #214 Well, located 1510' from the North line and 1040' from the East line of Section 4, Township 27 North, Range 7 West, N.M.P.M., was spudded on April 21, 1974, and completed on May 1, 1974 at a total depth of 7766'. The Dakota Formation at the intervals of 7532', 7544', 7646', 7648', 7674' and 7734' was treated with a sand-water fracturing process on June 14, 1974. The well was shut-in on June 16, 1974, and after being shut-in for nine (9) days the Dakota Formation was tested on June 26, 1974, and after a three-hour blow-down period the well gauged 4108 MCF/D through a 3/4" choke and 4269 MCF/D by the calculated absolute open-flow method, with an SIPC of 2492 psia and an SIPT of 2489 psia. The spacing unit for this well is described as the E/2 of Section 4, Township 27 North, Range 7 West, N.M.P.M., containing 320.17 acres.

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

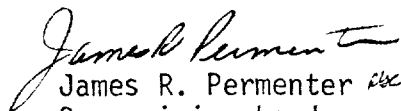
This drilling block was included in the San Juan 28-7 Unit Eighteenth Expanded Participating Area for the Dakota Formation, effective June 1, 1973. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

The San Juan 28-7 Unit #220 Well, located 1080' from the South line and 2480' from the West line of Section 22, Township 28 North, Range 7 West, N.M.P.M., was spudded on May 23, 1974, and completed on June 2, 1974 at a total depth of 7987'. The Dakota Formation at the intervals of 7759', 7775', 7865', 7875', 7898', 7924' and 7949' was treated with a sand-water fracturing process on June 3, 1974. The well was shut-in on June 6, 1974, and after being shut-in for seven (7) days the Dakota Formation was tested on June 13, 1974, and after a three-hour blow-down period the well gauged 3942 MCF/D through a 3/4" choke and 4109 MCF/D by the calculated absolute open-flow method with an SIPC of 2437 psia and an SIPT of 2268 psia. The spacing unit for this well is described as the W/2 of Section 22, Township 28 North, Range 7 West, N.M.P.M., containing 320.00 acres.

This drilling block was included in the San Juan 28-7 Unit Eighteenth Expanded Participating Area for the Dakota Formation, effective June 1, 1973. 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 *ix*
Supervising Landman
Land Department
Energy Resource Development

JRP:lj
Attachment
SJ 28-7 Unit 4.3.1

SAN JUAN 28-7 UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss,
Executrix of the Estate of A.
Harvey Arant, Deceased

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co.

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J.
Simmons, Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79978

August 12, 1974

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

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

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

Re: San Juan 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
1974 SUPPLEMENTAL DRILLING PROGRAM

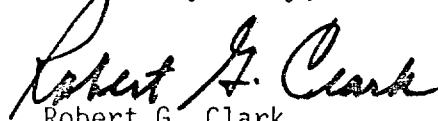
Gentlemen:

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

United States Geological Survey	- August 5, 1974
Commissioner of Public Lands	- June 27, 1974
Oil Conservation Commission	- July 16, 1974

Copies of this letter will be sent to the working interest owners of the San Juan 28-7 Unit.

Yours very truly,



Robert G. Clark
Landman
Land Department
Energy Resource Development

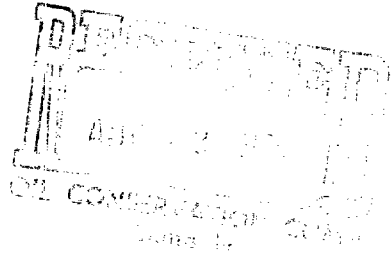
RGC:lj
SJ 28-7 Unit 3.0

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

El Paso Natural Gas Company

El Paso, Texas 79978

July 30, 1974



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

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

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

Re: San Juan 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
SECOND REVISED APPLICATION FOR
APPROVAL OF THE NINETEENTH EXPANDED
PARTICIPATING AREA OF THE DAKOTA
FORMATION, Effective August 1, 1973

Gentlemen:

This is to advise that the captioned expansion was approved by the regulatory agencies on the following dates:

United States Geological Survey	- July 24, 1974
Commissioner of Public Lands	- June 25, 1974
Oil Conservation Commission	- June 27, 1974

Copies of this letter will be sent to the working interest owners of the San Juan 28-7 Unit.

Yours very truly,

Robert G. Clark
Landman
Land Department
Energy Resource Development

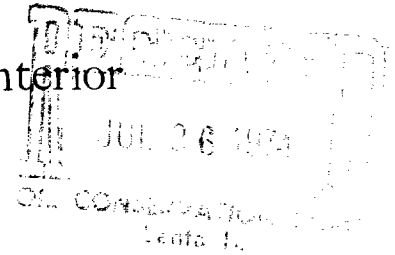
RGC:lj
SJ 28-7 Unit 4.3



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



July 25, 1974

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

Gentlemen:

Your revised application of June 21, 1974, requesting approval of the revised nineteenth revision of the Dakota participating area for the San Juan 28-7 unit agreement, Rio Arriba County, New Mexico, No. 14-08-0001-459, was approved July 24, 1974, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective August 1, 1973.

The revised nineteenth revision adds 961.22 acres described as lot 1 of section 11, all of section 12 and 24, T. 23 N., R. 7 W., N.M.P.M., which enlarges the Dakota participating area to 14,731.72 acres. Such revision is based on unit well 107 located in the NE $\frac{1}{4}$ of section 24, T. 23 N., R. 7 W., and non-unit wells 106 located in the SW $\frac{1}{4}$ of section 36, T. 29 N., R. 7 W., and 184 located in the W $\frac{1}{2}$ of section 7, T. 28 N., R. 6 W. Well No. 187 was completed on August 24, 1973 for a CAOF of 2446 MCFGPD from the Dakota; well No. 106 was completed August 22, 1973 for a CAOF of 4845 MCFGPD from the Dakota; and well No. 184 was completed on August 24, 1973 for a CAOF of 3478 MCFGPD from the Dakota.

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

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Durango (w/copy of Appl.)
BLM, Santa Fe (ltr. only)
NMOCC (ltr. only) ✓
Com. of Public Lands (ltr. only)

JFSims:td

OIL CONSERVATION COMMISSION

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

July 16, 1974

I. R. TRUJILLO
CHAIRMAN

LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER

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

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

Attention: Mr. D. N. Canfield

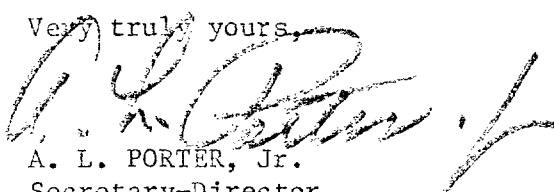
Re: Supplemental 1974 Drilling Program
San Juan 28-7 Unit, Rio Arriba
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplement to the 1974 Drilling Program providing for the drilling of fifteen additional Dakota Wells for the San Juan 28-7 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

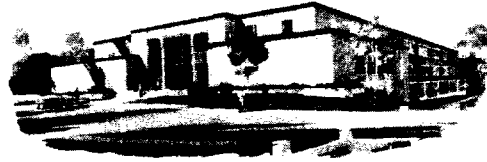
ALP/JEK/og

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

State of New Mexico



ALEX J. ARMIJO
COMMISSIONER

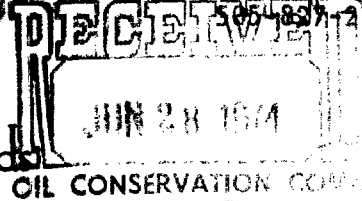


Commissioner of Public Lands

June 27, 1974

TELEPHONE

505-837-2748



Santa Fe P. O. Box 1148

SANTA FE, NEW MEXICO

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

Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
SUPPLEMENTAL 1974 DRILLING
PROGRAM

Attention Mr. D. N. Gamfield

Gentlemen:

The Commissioner of Public Lands has this date approved your Supplemental 1974 Drilling Program for the San Juan 28-7 Unit, Rio Arriba County, New Mexico, proposing the drilling of fifteen wells of the Dakota Formation. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

One approved copy of the plan is enclosed.

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

Very truly yours,

RAY D. GRAHAM, DIRECTOR
OIL AND GAS DIVISION

AJA:RDG:rz
Enclosure

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

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

June 27, 1974

445

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

Attention: Mr. James R. Permenter

Re: Second Revision - Nineteenth
Expanded Dakota Participating
Area, San Juan 28-7 Unit,
Rio Arriba County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Second Revised Nineteenth Expanded Participating Area of the Dakota Formation for the San Juan 28-7 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 returned to the Commissioner of Public Lands.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

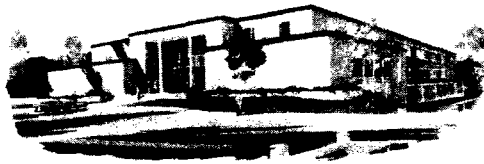
ALP/JEK/og

cc: United States Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
Santa Fe, New Mexico

C
O
P
Y

State of New Mexico



TELEPHONE
505-827-2748

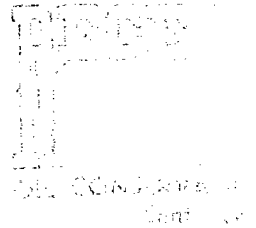
Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

June 25, 1974

P. O. BOX 1148
SANTA FE, NEW MEXICO

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



Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
SECOND REVISED APPLICATION FOR
APPROVAL OF THE NINETEENTH EXPANDED
PARTICIPATING AREA OF THE DAKOTA
FORMATION, Effective August 1, 1973

Attention Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved the Second Revised Application of the Nineteenth Expanded Participating Area of the Dakota Formation for the San Juan 28-7 Unit, Rio Arriba County, New Mexico. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

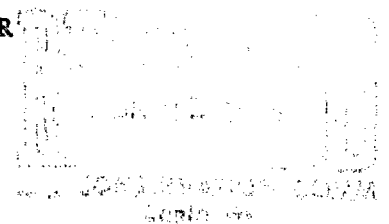
We are handing eight (8) copies of the application to the Oil Conservation Commission requesting them to forward five (5) copies to the United States Geological Survey at Roswell, New Mexico for their consideration. Two (2) copies to be returned to the Commissioner of Public Lands and one (1) copy must be retained by the Oil Conservation Commission. After this application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso Natural Gas Company.

Very truly yours,

PAY D. GRAHAM, DIRECTOR
OIL AND GAS DIVISION

AJA:RDG:rz
cc:

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



El Paso Natural Gas Company

El Paso, Texas 79978

June 24, 1974

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

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

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

Re: San Juan 28-7 Unit
#14-08-001-459
Rio Arriba County, New Mexico
SUPPLEMENTAL 1974 DRILLING
PROGRAM

Gentlemen:

By letter dated December 26, 1973, El Paso Natural Gas Company, as Unit Operator, submitted for your approval the proposed 1974 Drilling Program. Said Program provides for the drilling of five (5) Pictured Cliffs wells, seven (7) dual Pictured Cliffs-Chacra wells, eight (8) Chacra wells and fourteen (14) Dakota wells during the 1974 calendar year. Pursuant to Section 10 of the San Juan 28-7 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, now wishes to supplement the 1974 Drilling Program to provide for the drilling of the following wells.

<u>Well No.</u>	<u>Drilling Block</u>	<u>Formation</u>
#100	E/2 Sec. 30-27N-7W	Dakota
#111	W/2 Sec. 20-27N-7W	Dakota
#113	E/2 Sec. 18-27N-7W	Dakota
#228	W/2 Sec. 8-27N-7W	Dakota
#229	E/2 Sec. 32-28N-7W	Dakota
#230	E/2 Sec. 29-28N-7W	Dakota
#231	W/2 Sec. 16-28N-7W	Dakota
#232	E/2 Sec. 20-28N-7W	Dakota
#233	N/2 Sec. 14-28N-7W	Dakota
#234	E/2 Sec. 15-28N-7W	Dakota
#235	S/2 Sec. 10-28N-7W	Dakota
#236	E/2 Sec. 6-27N-7W	Dakota
#237	E/2 Sec. 19-27N-7W	Dakota
#238	W/2 Sec. 29-28N-7W	Dakota
#239	W/2 Sec. 17-28N-7W	Dakota

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

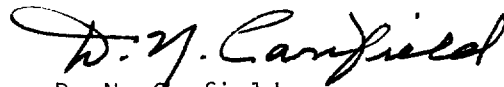
In addition to the above supplemental wells, El Paso Natural Gas Company, as Unit Operator, will drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary by the Unit Operator and the working interest owners.

All of the working interest owners have been contacted and this supplemental program reflects a majority of their desires for additional drilling.

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

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

Yours very truly,

A handwritten signature in black ink, appearing to read "D. N. Canfield". The signature is fluid and cursive, with a large initial "D" and a stylized "N".

D. N. Canfield,
Manager
Land Department
Energy Resource Development


DNC:RGC:sn
Enclosures
S.J. 28-7, 3.0

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

DATE: _____

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

DATE: _____

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

DATE: July 16, 1974

The foregoing approvals are for the Supplemental 1974 Drilling Program for the Canyon Largo Unit, #14-08-001-1059, Rio Arriba County, New Mexico.

San Juan 28-7 Unit
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Company (2)

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J.
Simmons, Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

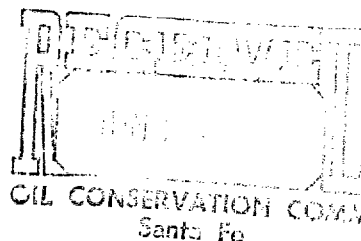
El Paso, Texas 79978

June 21, 1974

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

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

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



RECEIVED
JUN 25 10 15 AM '74
OFFICE
SANTA FE, N.M.

Re: San Juan 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
SECOND REVISED APPLICATION FOR
APPROVAL OF THE NINETEENTH EXPANDED
PARTICIPATING AREA OF THE DAKOTA
FORMATION, Effective August 1, 1973

Gentlemen:

By letters dated January 30, 1974 and March 29, 1974, El Paso Natural Gas Company, as Unit Operator, submitted for your approval the application for the Approval of the Nineteenth Expanded Participating Area, and Revised Nineteenth Expanded Participating Area of the Dakota Formation. Pursuant to requests made by Continental Oil Company and Tenneco Oil Company that additional acreage be included in said expansions, and El Paso Natural Gas Company's subsequent re-evaluation of same, we now respectfully request approval of the Second Revised Nineteenth Expanded Participating Area for the Dakota Formation, to wit:

SECOND REVISED NINETEENTH EXPANDED PARTICIPATING AREA -
Effective August 1, 1973

Description of Lands

Township 28 North, Range 7 West, N.M.P.M.

Section 11: Lot 1

Section 12: Lots 1,2,3,4, S/2 S/2

Section 24: All

Containing 961.22 acres, more or less

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

This land is proven to be productive by the following:

The San Juan 28-7 Unit #187 well, located 900' from the North line and 900' from the East line of Section 24, Township 28 North, Range 7 West, N.M.P.M., was spudded on July 9, 1973, and completed on August 9, 1973 at a total depth of 7857'. The Dakota Formation in the intervals of 7578', 7588', 7698', 7700', 7742', 7766', 7768', 7802', 7834' was treated with a sand-water fracturing process on August 7, 1973. The well was shut-in on August 9, 1973, and after being shut-in for fifteen (15) days the Dakota Formation was tested on August 24, 1973, and after a three (3) hour blow-down period the well gauged 2402 MCF/D through a 3/4" choke and 2446 MCF/D by the calculated absolute open-flow method, with an SIPC of 2747 psia and an SIPT of 2166 psia.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Second Revised Nineteenth Expanded Participating Area of the Dakota Formation within the San Juan 28-7 Unit.

EXHIBIT "B"

Geological Report on the Second Revised Nineteenth Expanded Participating Area of the Dakota Formation within the San Juan 28-7 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-7 Unit Subsurface Structure Contour Map

Figure No. 2: San Juan 28-7 Unit Isopachous Map

Exhibit "D" has not been enclosed with this application but has previously been enclosed with our First Revision of the Nineteenth Expanded Participating Area of the Dakota Formation.

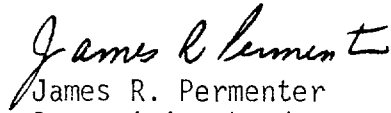
Attached hereto is Schedule XX showing the proposed Second Revised Nineteenth Expanded Participating Area for the Dakota Formation in the San Juan 28-7 Unit Area. This schedule describes the Expanded Participating Area, shows the percentages of unitized substances allocated to each unitized tract and the percentages of ownership in each tract.

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

If this Second Revised Nineteenth 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:RGC:lj
Enclosures
SJ 28-7 Unit 4.3

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

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

DATE: _____

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

DATE: June 25, 1974

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

DATE: June 27, 1974

The foregoing approvals are for the Second Revised Application for Approval of the Nineteenth Expanded Participating Area of the Dakota Formation, San Juan 28-7 Unit #14-08-001-459, Rio Arriba County, New Mexico.

SAN JUAN 28-7 UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss,
Executrix of the Estate of
A. Harvey Arant, Deceased

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Company (2)

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons,
Independent Executrix of the
Estate of D. J. Simmons, Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

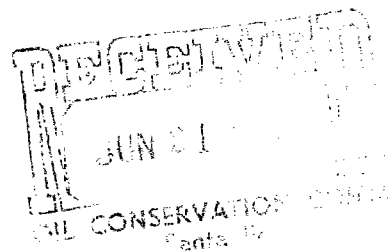
Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79978

June 20, 1974



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

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

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

Re: San Juan 28-7 Unit #14-08-001-459
NOTICE OF COMPLETION OF ADDITIONAL
WELLS, Pictured Cliffs Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the test dates indicated that two (2) additional wells capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation, have been completed upon acreage committed to this Unit.

These wells are as follows:

The San Juan 28-7 Unit #168 Well, located 1150' from the North line and 910' from the East line of Section 6, Township 27 North, Range 7 West, N.M.P.M., was spudded on December 12, 1973, and completed on January 20, 1974, at a total depth of 2842'. The Pictured Cliffs Formation in the intervals between 2690'-2710' and 2720'-2730' was treated with a sand-water fracturing process on April 15, 1974. The well was shut-in on April 19, 1974, and after being shut-in for forty-one (41) days the Pictured Cliffs Formation was tested on May 30, 1974, and after a three-hour blow-down period the well gauged 2990 MCF/D through a 3/4" choke and 3273 MCF/D by the calculated absolute open-flow method, with an SIPC of 950 psia. The spacing unit for this well is described as the E/2 of Section 6, Township 27 North, Range 7 West, containing 320.60 acres.

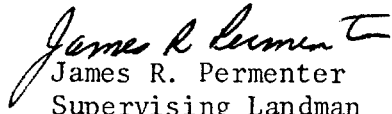
United States Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
Page Two

This drilling block was included in the San Juan 28-7 Unit Fifth Expanded Participating Area for the Pictured Cliffs Formation, effective June 1, 1955. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The San Juan 28-7 Unit #175 Well, located 1775' from the North line and 1050' from the West line of Section 28, Township 27 North, Range 7 West, N.M.P.M., was spudded on October 23, 1973, and completed on November 9, 1973, at a total depth of 3069'. The Pictured Cliffs Formation in the intervals between 2902'-2910', and 2924'-2948', was treated with a sand-water fracturing process on March 20, 1974. The well was shut-in on April 5, 1974, and after being shut-in for fifty-six (56) days the Pictured Cliffs Formation was tested on May 31, 1974, and after a three-hour blow-down period the well gauged 1123 MCF/D through a 3/4" choke and 1149 MCF/D by the calculated absolute open-flow method, with an SIPC of 721 psia. The spacing unit for this well is described as the N/2 of Section 28, Township 27 North, Range 7 West, containing 320.00 acres.

This drilling block was included in the San Juan 28-7 Unit Seventh Expanded Participating Area for the Pictured Cliffs Formation, effective February 1, 1957. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

Yours very truly,


James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:RGC:sn
S.J. 28-7, 4.1, 4.1.1

El Paso Natural Gas Company

El Paso, Texas 79978

May 24, 1974

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

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

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

Re: San Juan 28-7 Unit #14-08-001-459
NOTICE OF COMPLETION OF NON-
COMMERCIAL WELL, Chacra Formation

Gentlemen:

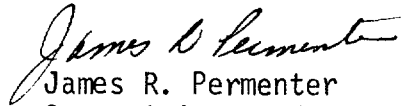
Pursuant to Section 11 of the San Juan 28-7 Unit Agreement #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that the following described well, completed on lands committed to the San Juan 28-7 Unit, is not capable of producing unitized substances in paying quantities from the Chacra Formation:

The San Juan 28-7 Unit #169 well, located 1058' from the North line and 840' from the West line of Section 9, Township 27 North, Range 7 West, N.M.P.M., was spudded on December 28, 1973, and completed on March 19, 1974, at a total depth of 4393'. The Chacra Formation in the interval between 4276'-4292', was treated with a sand-water fracturing process on March 1, 1974. The well was shut-in on April 5, 1974, and after being shut-in for eighteen (18) days the Chacra Formation was tested on April 23, 1974, and after a three-hour blow-down period the well gauged 202 MCF/D through a 3/4" choke and 202 MCF/D by the calculated absolute open-flow method, with an SIPC of 1037 psia.

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

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 "James R. Permenter".

James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:RGC:sn
Attachment
S.J. 28-7, 4.4, 4.4.1

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

SAN JUAN 28-7 UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss
Executrix of the Estate of
A. Harvey Arant, Deceased

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co. (2)

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons,
Independent Executrix of the
Estate of D. J. Simmons,
Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79978

June 5, 1974

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

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

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

Re: San Juan 28-7 Unit #14-08-001-459
NOTICE OF COMPLETION OF ADDITIONAL
WELLS, Pictured Cliffs Formation

Gentlemen:

Pursuant to Section 11 of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the test dates indicated that three (3) additional wells capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation, have been completed upon acreage committed to this Unit.

These wells are as follows:

The San Juan 28-7 Unit #169 Well, located 1058' from the North line and 840' from the West line of Section 9, Township 27 North, Range 7 West, N.M.P.M., was spudded on December 28, 1973 and completed on March 19, 1974 at a total depth of 3471'. The Pictured Cliffs Formation in the intervals between 3320'-3340' and 3350'-3360' was treated with a sand-water fracturing process on March 1, 1974. The well was shut-in on March 29, 1974, and after being shut-in for thirty-three (33) days the Pictured Cliffs Formation was tested on May 1, 1974, and after a three-hour blow-down period the well gauged 1399 MCF/D through a 3/4" choke and 1444 MCF/D by the calculated absolute open-flow method, with an SIPC of 764 psia. The spacing unit for this well is described as the W/2 of Section 9, Township 27 North, Range 7 West, containing 320.00 acres.

June 5, 1974

This drilling block was included in the San Juan 28-7 Unit Fourteenth Expanded Participating Area for the Pictured Cliffs Formation, effective February 1, 1958. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The San Juan 28-7 Unit #174 Well, located 870' from the South line and 930' from the East line of Section 21, Township 27 North, Range 7 West, N.M.P.M., was spudded on October 12, 1973 and completed on March 28, 1974 at a total depth of 3093'. The Pictured Cliffs Formation in the intervals between 2940'-2956', 2980'-2992', 3008'-3020' was treated with a sand-water fracturing process on March 19, 1974. The well was shut-in on April 5, 1974, and after being shut-in for thirty-four (34) days the Pictured Cliffs Formation was tested on May 9, 1974, and after a three-hour blow-down period the well gauged 1339 MCF/D through a 3/4" choke and 1369 MCF/D by the calculated absolute open-flow method, with an SIPC of 928 psia. The spacing unit for this well is described as the E/2 of Section 21, Township 27 North, Range 7 West, containing 320.00 acres.

This drilling block was included in the San Juan 28-7 Unit Fifteenth Expanded Participating Area for the Pictured Cliffs Formation, effective March 1, 1958. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The San Juan 28-7 Unit #167 Well, located 1710' from the South line and 1830' from the West line of Section 5, Township 27 North, Range 7 West, N.M.P.M., was spudded on December 6, 1973 and completed on December 29, 1973 at a total depth of 3460'. The Pictured Cliffs Formation in the intervals between 3272'-3288', 3298-3310', 3338'-3350' was treated with a sand-water fracturing process on February 28, 1974. The well was shut-in on March 29, 1974, and after being shut-in for thirty-three (33) days the Pictured Cliffs Formation was tested on May 1, 1974, and after a three-hour blow-down period the well gauged 1990 MCF/D through a 3/4" choke and 2095 MCF/D by the calculated absolute open-flow method, with an SIPC of 858 psia. The spacing unit for this well is described as the W/2 of Section 5, Township 27 North, Range 7 West, containing 320.52 acres.

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

June 5, 1974

This drilling block was included in the San Juan 28-6 Unit Seventh Expanded Participating Area for the Pictured Cliffs Formation, effective February 1, 1957. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

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

Yours very truly,

A handwritten signature in cursive script, reading "James R. Permenter".

James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:RGC:lj
Attachment
SJ 28-7 Unit 4.1.1

SAN JUAN 28-7 UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss, Executrix of the
Estate of A. Harvey Arant, Deceased

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co.

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J. Simmons,
Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

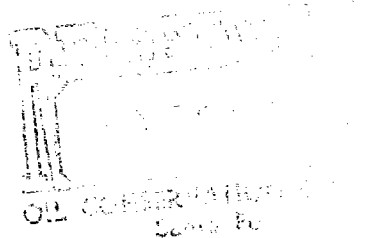
El Paso, Texas 79978

May 6, 1974

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

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

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



Re: San Juan 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
APPROVAL OF THE NINETEENTH REVISION
OF THE PARTICIPATING AREA FOR THE
DAKOTA FORMATION

Gentlemen:

This is to advise that the captioned Expansion for the San Juan 28-7 Unit was approved by the Regulatory Bodies on the following dates:

United States Geological Survey	April 24, 1974
Commissioner of Public Lands	April 8, 1974
Oil Conservation Commission	April 9, 1974

Copies of this letter are being sent to the working interest owners of the San Juan 28-7 Unit.

Yours very truly,

A handwritten signature in dark ink, reading "Robert G. Clark".

Robert G. Clark
Landman
Land Department
Energy Resource Development

RGC:sn
S.J. 28-7, Unit 4.3

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

El Paso Natural Gas Company

El Paso, Texas 79978

May 6, 1974

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

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

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

Re: San Juan 28-7 Unit #14-08-001-459
NOTICE OF COMPLETION OF ADDITIONAL
WELLS, Pictured Cliffs Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 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 Pictured Cliffs Formation have been completed upon acreage committed to the Unit. The wells are as follows:

The San Juan 28-7 Unit #176 well, located 1695' from the North line and 1650' from the West line of Section 29, Township 27 North, Range 7 West, N.M.P.M., was spudded on October 24, 1973, and completed on April 16, 1974, at a total depth of 2980'. The Pictured Cliffs Formation in the intervals between 2840'-2848', 2858'-2868', 2878'-2888', was treated with a sand-water fracturing process on March 22, 1974. The well was shut-in on April 5, 1974, and after being shut-in for eleven (11) days the Pictured Cliffs Formation was tested on April 16, 1974, and after a three-hour blow-down period the well gauged 2401 MCF/D through a 3/4" choke and 2703 MCF/D by the calculated absolute open-flow method, with an SIPC of 688 psia. The spacing unit for this well is described as the W/2 of Section 29, Township 27 North, Range 7 West, containing 320.00 acres.

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

This drilling block was included in the San Juan 28-7 Unit Third Expanded Participating Area for the Pictured Cliffs Formation, effective July 1, 1954. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The San Juan 28-7 Unit #177 well, located 1460' from the South line and 870' from the East line of Section 30, Township 27 North, Range 7 West, N.M.P.M., was spudded on November 13, 1973, and completed on March 29, 1974, at a total depth of 4031'. The Pictured Cliffs Formation in the intervals between 2860'-2880', 2896'-2916', was treated with a sand-water fracturing process on March 26, 1974. The well was shut-in on April 5, 1974, and after being shut-in for twelve (12) days the Pictured Cliffs Formation was tested on April 17, 1974, and after a three-hour blow-down period the well gauged 2881 MCF/D through a 3/4" choke and 3426 MCF/D by the calculated absolute open-flow method, with an SIPC of 687 psia. The spacing unit for this well is described as the E/2 of Section 30, Township 27 North, Range 7 West, containing 320.00 acres.

This drilling block was included in the San Juan 28-7 Unit Fourth Expanded Participating Area for the Pictured Cliffs Formation, effective September 1, 1954. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

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

Yours very truly,



James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:RGC:sn
Enclosure
S.J. 28-7, 4.1.1

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

SAN JUAN 28-7 UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss
Executrix of the Estate of
A. Harvey Arant, Deceased

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co. (2)

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons,
Independent Executrix of the
Estate of D. J. Simmons,
Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company



United States Department of the Interior

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

April 24, 1974

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

Gentlemen:

Your revised application of March 29, 1974, requesting approval of the nineteenth revision of the Dakota participating area for the San Juan 28-7 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-459, was approved on April 24, 1974, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of August 1, 1973.

The nineteenth revision adds 640.00 acres described as all of sec. 24, T. 23 N., R. 7 W., N.M.P.M., which enlarges the Dakota participating area to 14,410.50 acres. Such revision is based on the information contributed by unit well No. 187 located in the NE $\frac{1}{4}$ of this same sec. 24, which was completed August 24, 1973, for a calculated open flow potential of 2,446 MCF of gas per day from the Dakota interval 7,578 to 7,834 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,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

Durango (w/cy appln)

BLM, Santa Fe (ltr only)

✓ NMOCC, Santa Fe (ltr only)

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

JAGillham:ds

El Paso Natural Gas Company

El Paso, Texas 79978

April 24, 1974

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

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

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

Re: San Juan 28-7 Unit #14-08-001-459
NOTICE OF COMPLETION OF ADDITIONAL
WELLS, Pictured Cliffs Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 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 Pictured Cliffs Formation have been completed upon acreage committed to the Unit. The wells are as follows:

The San Juan 28-7 Unit #170 Well, located 810' from the South line and 1790' from the East line of Section 9, Township 27 North, Range 7 West, N.M.P.M., was spudded on September 1, 1973, and completed on December 6, 1973, at a total depth of 3514'. The Pictured Cliffs Formation in the intervals of 3334'-3344', 3360'-3376', 3386'-3396', 3426'-3442', was treated with a sand-water fracturing process on December 5, 1973. The well was shut-in on December 12, 1973, and after being shut-in for fourteen (14) days the Pictured Cliffs Formation was tested on December 26, 1973, and after a three-hour blow-down period the well gauged 1392 MCF/D through a 3/4" choke and 1536 MCF/D by the calculated absolute open-flow method, with an SIPC of 439 psia. The spacing unit for this well is described as the E/2 of Section 9, Township 27 North, Range 7 West, containing 320.00 acres.

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

This drilling block was included in the San Juan 28-7 Unit Thirteenth Expanded Participating Area for the Pictured Cliffs Formation, effective December 1, 1957. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The San Juan 28-7 Unit #171 Well, located 1570' from the South line and 1150' from the East line of Section 16, Township 27 North, Range 7 West, N.M.P.M., was spudded on September 22, 1973, and completed on January 18, 1974, at a total depth of 3237'. The Pictured Cliffs Formation in the intervals of 3086'-3096', 3108'-3124', 3150'-3162' was treated with a sand-water fracturing process on December 17, 1973. The well was shut-in on January 22, 1974, and after being shut-in for twenty-three (23) days the Pictured Cliffs Formation was tested on February 14, 1974, and after a three-hour blow-down period the well gauged 3467 MCF/D through a 3/4" choke and 4664 MCF/D by the calculated absolute open-flow method, with an SIPC of 667 psia. The spacing unit for this well is described as the E/2 of Section 16, Township 27 North, Range 7 West, containing 320.00 acres.

This drilling block was included in the San Juan 28-7 Unit Sixteenth Expanded Participating Area for the Pictured Cliffs Formation, effective June 1, 1958. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The San Juan 28-7 Unit #172 Well, located 1590' from the South line and 1560' from the West line of Section 16, Township 27 North, Range 7 West, N.M.P.M., was spudded on September 3, 1973, and completed on December 12, 1973, at a total depth of 3243'. The Pictured Cliffs Formation in the intervals of 3048'-3078', was treated with a sand-water fracturing process on December 12, 1973. The well was shut-in on January 15, 1974, and after being shut-in for twenty-one (21) days the Pictured Cliffs Formation was tested on February 5, 1974, and after a three-hour blow-down period the well gauged 2429 MCF/D through a 3/4" choke and 2612 MCF/D by the calculated absolute open-flow method, with an SIPC of 895 psia. The spacing unit for this well is described as the W/2 of Section 16, Township 27 North, Range 7 West, containing 320 acres.

This drilling block was included in the San Juan 28-7 Unit Eleventh Expanded Participating Area for the Pictured Cliffs Formation, effective October 1, 1957. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

The San Juan 28-7 Unit #173 Well, located 1460' from the North line and 1030' from the East line of Section 17, Township 27 North, Range 7 West, N.M.P.M., was spudded on September 20, 1973, and completed on January 21, 1974, at a total depth of 3170'. The Pictured Cliffs Formation in the intervals of 3010'-3034', 3056'-3072', was treated with a sand-water fracturing process on January 10, 1974. The well was shut-in on January 22, 1974, and after being shut-in for sixteen (16) days the Pictured Cliffs Formation was tested on February 7, 1974, and after a three-hour blow-down period the well gauged 913 MCF/D through a 3/4" choke and 921 MCF/D by the calculated absolute open-flow method, with an SIPC of 947 psia. The spacing unit for this well is described as the E/2 of Section 17, Township 27 North, Range 7 West, containing 320.00 acres.

This drilling block was included in the San Juan 28-7 Unit Nineteenth Expanded Participating Area for the Pictured Cliffs Formation, effective February 1, 1959. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area. The #170-#173 wells were dually completed in the Pictured Cliffs and Chacra formations. The Chacra formations will be handled by another letter at a later date.

The San Juan 28-7 Unit #180 Well, located 960' from the South line and 1720' from the East line of Section 19, Township 27 North, Range 7 West, N.M.P.M., was spudded on October 2, 1973, and completed on March 20, 1974, at a total depth of 3028'. The Pictured Cliffs Formation in the intervals of 2940'-2952', was treated with a sand-water fracturing process on March 1, 1974. The well was shut-in on March 29, 1974, and after being shut-in for twelve (12) days the Pictured Cliffs Formation was tested on April 10, 1974, and after a three-hour blow-down period the well gauged 2683' MCF/D through a 3/4" choke and 3775 MCF/D by the calculated absolute open-flow method, with an SIPC of 492 psia. The spacing unit for this well is described as the E/2 of Section 19, Township 27 North, Range 7 West, containing 320.00 acres.

This drilling block was included in the San Juan 28-7 Unit Sixth Expanded Participating Area for the Pictured Cliffs Formation, effective August 1, 1955. The completion of this well does not warrant any further expansion of the Pictured Cliffs Participating Area.

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

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

Yours very truly,

James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:AA:sn
Enclosure
S.J. 28-7, 4.1.1

SAN JUAN 28-7 UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss
Executrix of the Estate of
A. Harvey Arant, Dec'd.

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Co. (2)

Waymon G. Peavy

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons,
Independent Executrix of the
Estate of D. J. Simmons,
Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

OIL CONSERVATION COMMISSION

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

April 9, 1974

445

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

Attention: Mr. James R. Permenter

Re: Revised Nineteenth Expanded
Dakota Participating Area,
San Juan 28-7 Unit, Rio Arriba
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Revised Nineteenth Expansion of the Dakota Formation Participating Area for the San Juan 28-7 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

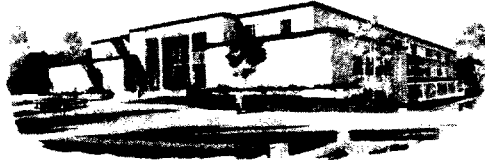
U. S. Geological Survey
Roswell, New Mexico

C
O
P
Y

State of New Mexico

TELEPHONE

505-827-2748



Commissioner of Public Lands

April 8, 1974

ALEX J. ARMIJO
COMMISSIONER

P. O. Box 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
REVISED APPLICATION FOR APPROVAL OF
THE NINETEENTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION, Effective
August 1, 1973

ATTENTION: Mr. James R. Parmenter

Gentlemen:

The Commissioner of Public Lands has this date approved the Revised Application of the Nineteenth Expanded Participating Area, Dakota Formation, for the San Juan 28-7 Unit, Rio Arriba County, New Mexico. This revised application includes the W/2 of Section 24, Township 28 North, Range 7 West, besides the E/2 of Section 24, Township 28 North, Range 7 West, as first submitted to this office. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are handing eight (8) copies of the application to the Oil Conservation Commission requesting them to forward five (5) copies to the United States Geological Survey at Roswell, New Mexico for their consideration. Two (2) copies to be returned to the Commissioner of Public Lands and one (1) copy must be retained by the Oil Conservation Commission. After this application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso Natural Gas Company.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/SDG/e

cc:

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

El Paso Natural Gas Company

El Paso, Texas 79978

April 4, 1974

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

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

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

Re: San Juan 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
1974 DRILLING PROGRAM

Gentlemen:

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

United States Geological Survey	March 25, 1974
Commissioner of Public Lands	March 15, 1974
Oil Conservation Commission	March 18, 1974

Copies of this letter are being sent to the working interest owners of the San Juan 28-7 Unit.

Yours very truly,



Alan Alexander
Landman
Land Department
Energy Resource Development

AA:sn
S.J. 28-7

El Paso Natural Gas Company

445

El Paso, Texas

April 3, 1974

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

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

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

Re: San Juan 28-7 Unit, #14-08-001-459
NOTICE OF COMPLETION OF ADDITIONAL
WELLS, Dakota Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 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 the Unit. The wells are as follows:

The San Juan 28-7 Unit #181 well, located 1180' from the South line and 820' from the West line of Section 3, Township 27 North, Range 7 West, N.M.P.M., was spudded on November 17, 1973, and completed on January 2, 1974, at a total depth of 7866'. The Dakota Formation in the intervals of 7620', 7646', 7648', 7756', 7758', 7784', 7808', 7828', was treated with a sand-water fracturing process on December 31, 1973. The well was shut-in on January 3, 1974, and after being shut-in for eleven (11) days the Dakota Formation was tested on January 14, 1974, and after a three-hour blow-down period the well gauged 1954 MCF/D through a 3/4" choke and 2020 MCF/D by the calculated absolute open-flow method, with an SIPC of 2615 psia and an SIPT of 1245 psia. The spacing unit for this well is described as the W/2 of Section 3, Township 27 North, Range 7 West, containing 319.99 acres.

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

This drilling block was included in the San Juan 28-7 Unit 16th Expanded Participating Area for the Dakota Formation, effective April 1, 1973. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

The San Juan 28-7 Unit #182 well, located 990' from the North line and 1180' from the East line of Section 3, Township 27 North, Range 7 West, N.M.P.M., was spudded on October 15, 1973, and completed on December 23, 1973, at a total depth of 7333'. The Dakota Formation in the intervals of 7030', 7058', 7157', 7163', 7186', 7222', 7258', 7286', was treated with a sand-water fracturing process on December 21, 1973. The well was shut-in on December 24, 1973, and after being shut-in for sixteen (16) days the Dakota Formation was tested on January 9, 1974, and after a three-hour blow-down period the well gauged 1740 MCF/D through a 3/4" choke and 1818 MCF/D by the calculated absolute open-flow method, with an SIPC of 2596 psia and an SIPT of 2195 psia. The spacing unit for this well is described as the E/2 of Section 3, Township 27 North, Range 7 West, containing 318.96 acres.

This drilling block was included in the San Juan 28-7 Unit 3rd Expanded Participating Area for the Dakota Formation, effective October 1, 1962. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

The San Juan 28-7 Unit #188 well, located 810' from the South line and 1750' from the West line of Section 26, Township 28 North, Range 7 West, N.M.P.M., was spudded on September 29, 1973, and completed on December 19, 1973, at a total depth of 7808'. The Dakota Formation in the intervals of 7547', 7564', 7659', 7661', 7688', 7702', 7736', 7739', was treated with a sand-water fracturing process on December 18, 1973. The well was shut-in on December 20, 1973, and after being shut-in for twenty-eight (28) days the Dakota Formation was tested on January 17, 1974, and after a three-hour blow-down period the well gauged 4765 MCF/D through a 3/4" choke and 4979 MCF/D by the calculated absolute open-flow method, with an SIPC of 2632 psia and an SIPT of 2264 psia. The spacing unit for this well is described as the W/2 of Section 26, Township 28 North, Range 7 West, containing 320.00 acres.

This drilling block was included in the San Juan 28-7 Unit 16th Expanded Participating Area for the Dakota Formation, effective April 1, 1973. The completion of this well does not warrant any further expansion of the Dakota Participating Area.

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

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

Yours very truly,

A handwritten signature in dark ink, appearing to read "James R. Permenter". The signature is fluid and cursive, with the first name "James" being the most prominent.

James R. Permenter
Supervising Landman
Land Department
Energy Resource Development

JRP:AA:sn
Enclosure
S.J. 28-7, 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 28-7 UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Mrs. Dudley Emerson Hotchkiss

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Company (2)

Mr. Waymon G. Peavey

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J. Simmons,
Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

445
El Paso Natural Gas Company

El Paso, Texas 79978
March 29, 1974

Commissioner of Public Lands
State of New Mexico
Post Office Box 1143
Santa Fe, New Mexico 87501

Re: San Juan 28-7 Unit #14-08-001-459,
Rio Arriba County, New Mexico
REVISED APPLICATION FOR APPROVAL OF
THE NINETEENTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION, Effective
August 1, 1973

Gentlemen:

We are enclosing for your approval eight (8) copies of a Revised Application for Approval of the Nineteenth 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 forward 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:AA:mcv
Enclosures

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

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

COPY

El Paso Natural Gas Company

El Paso, Texas 79978

March 29, 1974

RECEIVED

APR 3 10 37 AM '74

STATE OF NEW MEXICO
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
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 28-7 Unit #14-08-001-459,
Rio Arriba County, New Mexico
REVISED APPLICATION FOR APPROVAL OF
THE NINETEENTH EXPANDED PARTICIPATING
AREA OF THE DAKOTA FORMATION, Effective
August 1, 1973

Gentlemen:

By letter dated January 30, 1974, El Paso Natural Gas Company, as Unit Operator, submitted for your approval the application for the Approval of the Nineteenth Expanded Participating Area of the Dakota Formation. Pursuant to requests made by Continental Oil Company and Tenneco Oil Company that additional acreage be included in said expansion, and El Paso Natural Gas Company's subsequent re-evaluation of same, we now respectfully request approval of the Revised Nineteenth Expanded Participating Area for the Dakota Formation, to wit:

REVISED NINETEENTH EXPANDED PARTICIPATING AREA -
Effective August 1, 1973

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 7 West, N.M.P.M.</u>	
Section 24: All	640.00

This land is proven to be productive by the following:

The San Juan 28-7 Unit #187 well, located 900' from the North line and 900' from the East line of Section 24, Township 28 North, Range 7 West, N.M.P.M., was spudded on July 9, 1973, and completed on August 9, 1973, at a total depth of 7857'. The Dakota Formation in the intervals of 7578', 7588', 7698', 7700', 7742', 7766', 7768', 7802', 7834' was treated with a sand-water fracturing process on August 7, 1973. The well was shut-in on August 9, 1973, and after being shut-in for fifteen (15) days the Dakota Formation was tested on August 24, 1973, and after a three (3) hour blow-down period the well gauged 2402 MCF/D through a 3/4' choke and 2446 MCF/D by the calculated absolute open-flow method, with an SIPC of 2747 psia and an SIPT of 2166 psia.

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

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Nineteenth Expanded Participating Area of the Dakota Formation within the San Juan 28-7 Unit.

Exhibit "B"

Geological Report on the Nineteenth Expanded Participating Area of the Dakota Formation within the San Juan 28-7 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-7 Unit Subsurface Structure Contour Map

Figure No. 2: San Juan 28-7 Unit Isopachous map

EXHIBIT "D"

Schedule of Dakota Gas Production


Attached hereto is Schedule XX showing the proposed Revised Nineteenth Expanded Participating Area for the Dakota Formation in the San Juan 28-7 Unit Area. This schedule describes the Expanded Participating Area, shows the percentages of unitized substances allocated to each unitized tract and the percentages of ownership in each tract.

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

If this Revised Nineteenth 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:AA:mcv
Enclosures
S.J. 28-7 Unit 4.3

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

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

DATE: _____

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

DATE: April 8, 1974

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

DATE: April 9, 1974

The foregoing approvals are for the Revised Application for Approval of the
Nineteenth Expanded Participating Area of the Dakota Formation, San Juan 28-7
Unit #14-08-001-459, Rio Arriba County, New Mexico.

OIL CONSERVATION COMMISSION

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

March 18, 1974

4-1-8

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

Attention: Mr. D. N. Canfield

Re: 1974 Drilling Program
San Juan 28-7 Unit,
Rio Arriba County,
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling of three Pictured Cliffs wells, four Pictured Cliffs-Chacra Duals, five Chacra and fourteen Dakota wells for the San Juan 28-7 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,

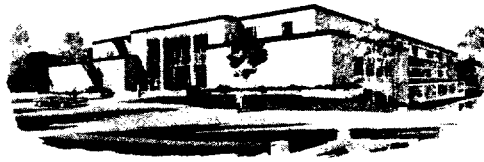
A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

March 15, 1974

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
1974 DRILLING PROGRAM

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1974 Drilling Program for the San Juan 28-7 Unit, which proposes the drilling of twenty-six (26) additional 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.

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

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s

encl.

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

El Paso Natural Gas Company

El Paso, Texas 79975

February 28, 1974

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

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

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

Re: San Juan 28-7 Unit #14-C8-001-459
Rio Arriba County, New Mexico
1974 DRILLING PROGRAM

Gentlemen:

By letter of May 31, 1973, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program on the captioned Unit for the calendar year 1973, providing for the drilling of fifteen (15) Dakota Wells, two (2) Pictured Cliffs Wells and twelve (12) Pictured Cliffs-Chacra Wells.

The completion of the #189 Dakota well occasioned the Fifteenth Expansion of the Dakota Participating Area, effective March 1, 1973. The completion of Dakota wells #131, #135, #190 occasioned the Sixteenth Expansion, effective April 1, 1973. Dakota wells #191 and #193 occasioned the Seventeenth Expansion effective May 1, 1973. The #194 Dakota well occasioned the Eighteenth Expansion, effective June 1, 1973. The #187 Dakota well occasioned the Nineteenth Expansion of the Dakota Participating Area, effective August 1, 1973. The #181, #182, #183, #186 and #188 Dakota wells were completed on acreage already included in the Dakota Participating Area and did cause an expansion of the Dakota Participating Area. The #134 Dakota well was completed on acreage outside of the Dakota Participating Area and should occasion an expansion of same pending a determination of its ability to produce unitized substances in paying quantities. The #185 Dakota well has been drilled but not completed as of the date of this letter.

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

The #179 and #180 Pictured Cliffs wells were drilled upon acreage committed to the Pictured Cliffs Participating Area. A final determination as to their commerciability has not been made. Pictured Cliffs-Chacra wells #170, #171 and #173 were completed on acreage within the Pictured Cliffs Participating Area and did not cause an expansion of same. These wells were completed on acreage that is outside the existing Chacra Participating Area and a determination as to whether or not their completion will occasion an expansion of the Chacra Participating Area will be made at a later date. Pictured Cliffs-Chacra wells #167, #168, #169, #172, #174, #175, #176, #177 and #178 have been drilled, but a determination as to their ability to produce unitized substances in paying quantities has not been made as of the date of this letter.

As of this date the total number of wells in the San Juan 28-7 Unit on acreage committed to the Unit is as follows:

Pictured Cliffs (includes the #179, #180 wells)*	36
Mesaverde	50
Dual Pictured Cliffs-Mesaverde	26
Dual Pictured Cliffs-Chacra (includes the #167, #168, #169, #172, #174, #175, #176, #177, #178 wells)*	12
Dual Mesaverde-Dakota	2
Dakota (includes the #185 well)*	37
Chacra	1
Non-Commercial Pictured Cliffs	4
Non-Commercial Mesaverde	2
Non-Commercial Dakota	1
Plugged and Abandoned	2
	<u>173</u>

*These wells may be reclassified when a final determination is made in relation to their ability to produce unitized substances in paying quantities.

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

Pursuant to Section 10 of the San Juan 28-7 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1974, providing for the drilling of the following wells:

WELL	SPACING UNIT OR DRILLING BLOCK	FORMATION
196	E/2 Sec. 10, T-27-N, R-7-W	Pictured Cliffs
197	E/2 Sec. 11, T-27-N, R-7-W	Pictured Cliffs
200	W/2 Sec. 30, T-28-N, R-7-W	Pictured Cliffs
201	E/2 Sec. 7, T-27-N, R-7-W	Pictured Cliffs-Chacra
202	E/2 Sec. 8, T-27-N, R-7-W	Pictured Cliffs-Chacra
206	E/2 Sec. 20, T-27-N, R-7-W	Pictured Cliffs-Chacra
207	W/2 Sec. 21, T-27-N, R-7-W	Pictured Cliffs-Chacra
117	W/2 Sec. 6, T-27-N, R-7-W	Chacra
208	W/2 Sec. 15, T-27-N, R-7-W	Chacra
210	W/2 Sec. 21, T-27-N, R-7-W	Chacra
211	W/2 Sec. 22, T-27-N, R-7-W	Chacra
212	W/2 Sec. 27, T-27-N, R-7-W	Chacra
214	E/2 Sec. 4, T-27-N, R-7-W	Dakota
215	W/2 Sec. 4, T-27-N, R-7-W	Dakota
216	E/2 Sec. 8, T-27-N, R-7-W	Dakota
217	N/2 Sec. 28, T-27-N, R-7-W	Dakota
218	S/2 Sec. 12, T-28-N, R-7-W	Dakota
219	W/2 Sec. 20, T-28-N, R-7-W	Dakota
220	W/2 Sec. 22, T-28-N, R-7-W	Dakota
221	E/2 Sec. 25, T-28-N, R-7-W	Dakota
222	W/2 Sec. 25, T-28-N, R-7-W	Dakota
223	E/2 Sec. 26, T-28-N, R-7-W	Dakota
224	E/2 Sec. 28, T-28-N, R-7-W	Dakota
225	E/2 Sec. 34, T-28-N, R-7-W	Dakota
226	W/2 Sec. 36, T-28-N, R-7-W	Dakota
227	E/2 Sec. 36, T-28-N, R-7-W	Dakota

Dakota Wells #215, #216, #217, #218, #219, #221, #222, #227 will be drilled outside the boundaries of the Dakota Participating Area in order to extend the limits of the Dakota Participating Area. Dakota Wells #214, #220, #223, #224, #225, #226 will be drilled on acreage that is within the existing Dakota Participating Area. All of the dual Pictured Cliffs-Chacra Wells will be drilled outside the boundaries of the Chacra Participating Area and within the boundaries of the Pictured Cliffs Participating Area. Pictured Cliffs Well #200 will be drilled outside the Pictured Cliffs Participating Area. Pictured Cliffs Wells #196 and #197 will be drilled within the Participating Area. All of the Chacra wells will be drilled outside of the Chacra Participating Area.

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

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

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

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

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

Yours very truly,

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

D. N. Canfield
Manager
Land Department
Energy Resource Development

DNC:AA:mcv

SJ-28-7, 3.0

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

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

APPROVED: A. H. Carter. J DATE: March 18, 1974
Oil Conservation Commission
Subject to like approval by the
Regional Oil & Gas Supervisor and the
Commissioner of Public Lands

The foregoing approvals are for the 1974 Drilling Program for the
San Juan 28-7 Unit #14-08-001-459, Rio Arriba County, New Mexico.

SAN JUAN 28-7 UNIT
WORKING INTEREST OWNERS

Burton-Hawks, Inc.

Continental Oil Company

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Corporation (2)

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J. Simmons,
Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

State of New Mexico

~~TELEPHONE~~
505-827-2748



Commissioner of Public Lands

February 14, 1974

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF
THE NINETEENTH EXPANDED
PARTICIPATING AREA OF THE DAKOTA
FORMATION, Effective August 1, 1973

ATTENTION: Mr. James R. Forrester

Gentlemen:

The Commissioner of Public Lands has this date approved the Nineteenth Expanded Participating Area for the Dakota Formation, for the San Juan 28-7 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 eight (8) copies of the application to the Oil Conservation Commission requesting them to forward five (5) copies to the United States Geological Survey at Roswell, New Mexico for their signing. Two copies to be returned to the Commissioner of Public Lands and one copy must be retained by the Oil Conservation Commission. After this application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso Natural Gas Company.

Very truly yours,

ROMULO U. MARTINEZ
Assistant Director
Oil and Gas Department

AJA/RUM/s

cc:

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

Tenneco Oil
A Tenneco Company

Suite 1200
Lincoln Tower Building
Denver, Colorado 80203
(303) 292-9920



February 6, 1974

445

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 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
OBJECTION TO APPROVAL OF
THE NINETEENTH EXPANDED
PARTICIPATING AREA OF THE
DAKOTA FORMATION

Gentlemen:

Pursuant to the provisions as outlined in Section 11 (b) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, Tenneco Oil Company, as a major working interest owner (15.36%) in the 28-7 Unit, hereby respectfully submits objection to approval of "The Nineteenth Expanded Participating Area of the Dakota Formation" as proposed by the El Paso Natural Gas Company in their letter dated January 30, 1974. As stated in section 11 (b) of the San Juan 28-7 Unit Agreement and as interpreted by Tenneco Oil Company, unitized land is eligible for inclusion in the participating area if the land is "regarded as reasonably proved to be productive of unitized substances in paying quantities". Tenneco Oil Company is emphatic in its opinion that Section 24, Twp 28N-Rge 7W, N.M.P.M. should be included in its entirety in "The Nineteenth Expanded Participating Area of the Dakota Formation". We feel the exclusion of the W/2 (TOC W.I.-50%) of Section 24 from the Nineteenth Expansion would represent a serious breach of the definition of commercial acreage eligible for inclusion in the participating area as outlined by the San Juan 28-7 Unit Agreement.

2/19/74
8:30 AM

Continued by Mr. Alexander
EPNG will advise
to the M. Alexander, Inc.
for Tenneco & have
Tenneco

COPY

TENNECO OIL COMPANY

Regional Oil & Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
Page 2

The W/2 of Section 24, Twp 28N-Rge 7W, is proven productive by the following:

San Juan 28-7 Unit #158 Well

C This well is located 1190 FNL and 1450 FEL, Section 23, Twp 28N-Rge 7W, N.M.P.M. (Drilling Unit immediately west of W/2, Section 24, Twp 28N-Rge 7W). Completed 7/2/71 in the Dakota formation the well flowed 2763 MCFPD through 3/4" choke and 2842 MCFPD by the calculated absolute open flow method, with a SICP of 2799 psia and a SITP of 2756 psia.

San Juan 28-7 Unit #186 Well

O This well is located 1600' FSL and 1500' FWL, Section 13, Twp 28N-Rge 7W, N.M.P.M. (Drilling Unit immediately north of W/2, Section 24, Twp 28N-Rge 7W). Tested 8/17/73 in the Dakota formation the well flowed 5077 MCFPD through a 3/4" choke and 5353 MCFPD by the calculated absolute open flow method, with a SICP of 2799 psia and a SITP of 2756 psia.

San Juan 28-7 Unit #187 Well

P This well is located 900' FNL and 900' FEL, Section 24, Twp 28N-Rge 7W, N.M.P.M. (Drilling Unit immediately east of W/2, Section 24, Twp 28N-Rge 7W). Tested 8/24/73 in the Dakota formation, the well flowed 2402 MCFPD through a 3/4" choke and 2446 MCFPD by the calculated absolute open flow method, with a SICP of 2747 psia and a SITP of 2166 psia.

Y In support of this objection to approval of The Nineteenth Expansion as proposed by El Paso Natural Gas Company the following exhibits are shown:

EXHIBIT A

Ownership Map in the area of interest reflecting present participating area, proposed Nineteenth Expansion by El Paso Natural Gas Company, and Tenneco Oil Company's acreage position.

EXHIBIT B

Structure Map Dakota B

EXHIBIT C

Gross Productive Sand Map Dakota B

TENNECO OIL COMPANY

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

We contend that the Nineteenth Expanded Participating Area of the Dakota Formation should include the W/2, Section 24, Twp 28N-Rge 7W, N.M.P.M. We trust the above information and the attached exhibits sufficiently support our contention.

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

Yours very truly,

TENNECO OIL COMPANY

O
D. D. Myers
Assistant Division
Production Manager

RDC/mp
Attachments

P cc: A. D. Rial

Y

SAN JUAN 28-7 UNIT
Working Interest Owners
El Paso Natural Gas Company

Burton-Hawks, Inc.

Continental Oil Company

Koch Industries, Inc.

Dixie H. McLane Trust

Mesa Petroleum Company (2)

Reserve Oil & Gas Company

Mr. W. H. Riddle

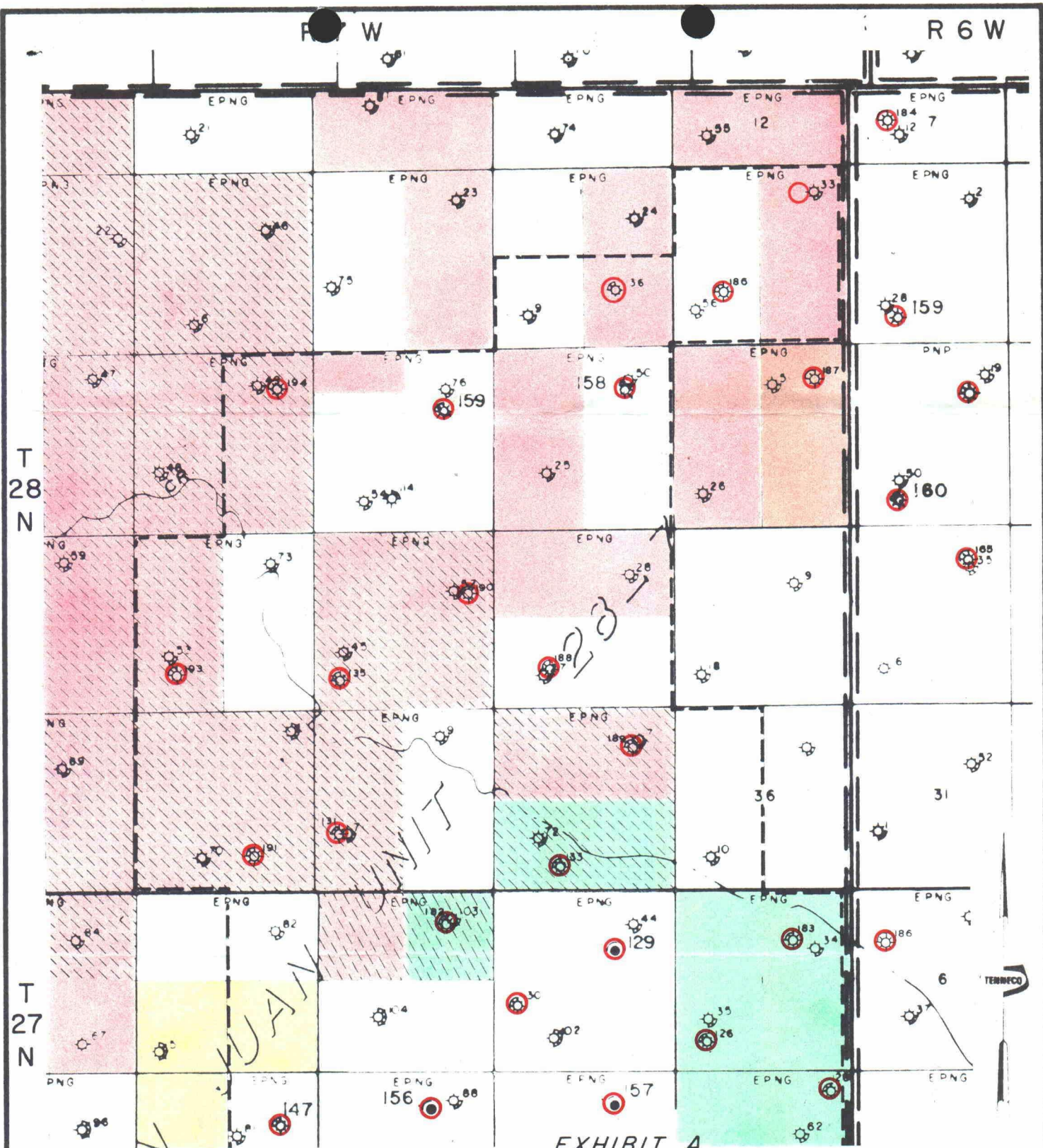
Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J. Simmons,
Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company



LEGEND

- TENNECO 100%
- TENNECO 50%
- LARGO ACREAGE
- DAKOTA PARTICIPATING AREA
- EL PASO NATURAL GAS PROPOSED NINETEENTH EXPANSION
- TOC ORRI

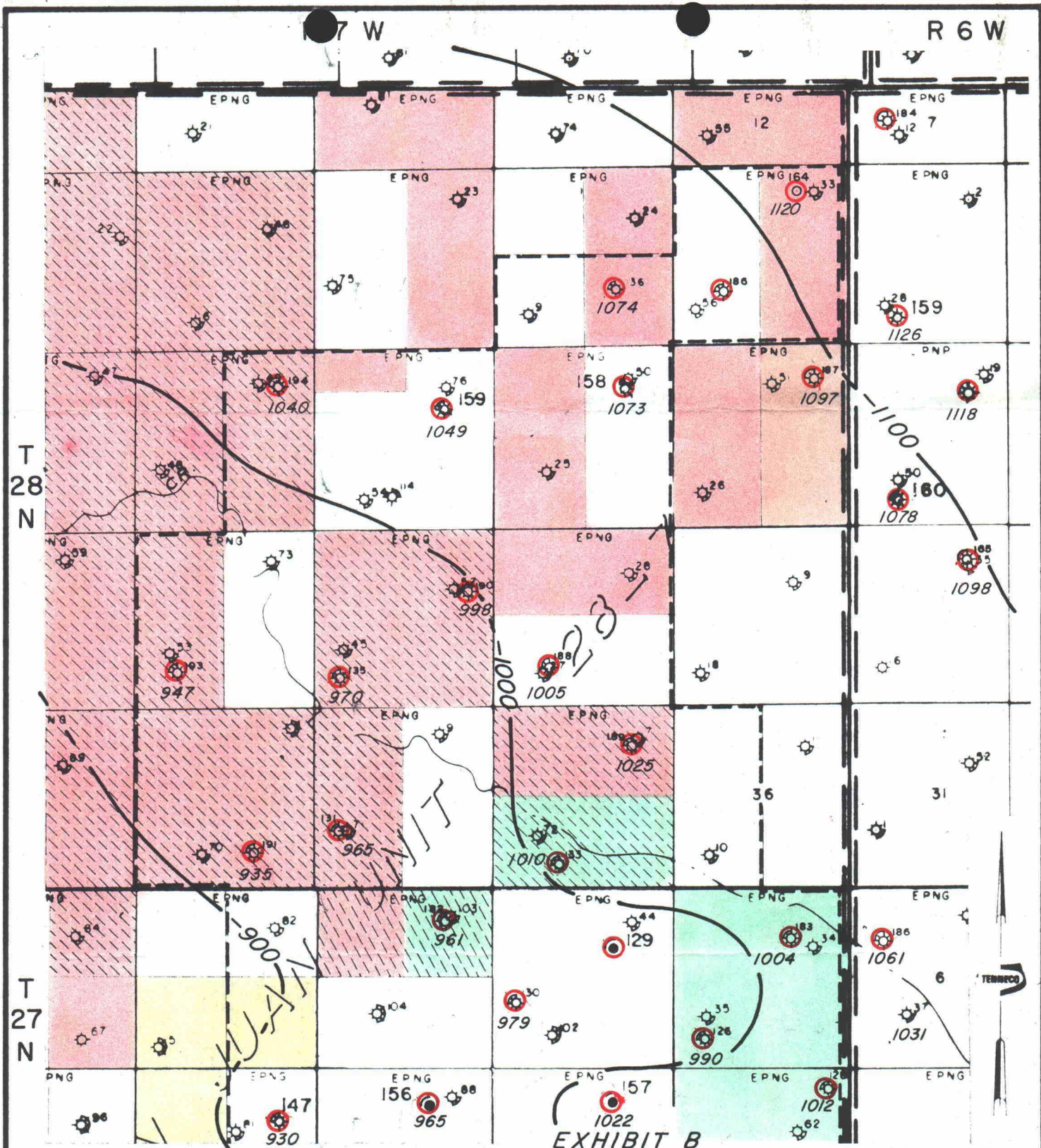
EXHIBIT A

TENNECO OIL COMPANY
SUBSIDIARY OF TENNECO INC

SAN JUAN UNIT 28-7
RIO ARRIBA & SAN JUAN CO'S, N. MEX.

OWNERSHIP MAP

4000 0 4000 8000
SCALE IN FEET
R.D.C. DENVER, COLORADO 2-8-74



LEGEND

- | | | | |
|--|---|--|----------|
| | TENNECO 100% | | TOC ORRI |
| | TENNECO 50% | | |
| | LARGO ACREAGE | | |
| | DAKOTA PARTICIPATING AREA | | |
| | EL PASO NATURAL GAS PROPOSED NINETEENTH EXPANSION | | |

EXHIBIT B

TENNECO OIL COMPANY
SUBSIDIARY OF TENNECO INC

SAN JUAN UNIT 28-7
RIO ARRIBA & SAN JUAN CO'S, N. MEX.

STRUCTURE MAP
DAKOTA B SAND

4000 0 4000 8000

R.D.C.

SCALE IN FEET

DENVER, COLORADO

2-8-74

El Paso Natural Gas Company

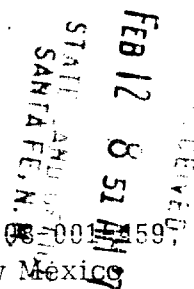
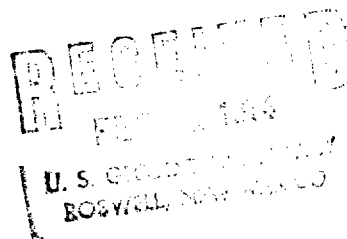
El Paso, Texas 79978

January 30, 1974

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

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

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



Re: San Juan 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF
THE NINETEENTH EXPANDED
PARTICIPATING AREA OF THE DAKOTA
FORMATION, Effective August 1, 1973

Gentlemen:

Pursuant to the provisions of Section 11 (b) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Nineteenth Expanded Participating Area for the Dakota formation, to wit:

NINETEENTH EXPANDED PARTICIPATING AREA - Effective August 1, 1973

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 7 West, N.M.P.M.</u>	
Section 24: E/2	320.00

This land is proven to be productive by the following:

The San Juan 28-7 Unit #187 well, located 900' from the North line and 900' from the East line of Section 24, Township 28 North, Range 7 West, N.M.P.M., was spudded on July 9, 1973, and completed on August 9, 1973, at a total depth of 7857'. The Dakota formation in the intervals of 7578', 7588', 7698', 7700', 7742', 7766', 7768', 7802', 7834' was treated with a sand-water fracturing process on August 7, 1973. The well was shut-in on August 9, 1973, and after being shut-in for fifteen (15) days the Dakota formation was tested on August 24, 1973, and after a three-hour blow-down period the well gauged 2402 MCF/D through a 3/4" choke and 2446 MCF/D by the calculated absolute open-flow method, with an SIPC of 2747 psia and an SIPT of 2166 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 Expanded Participating Area of the Dakota formation within the San Juan 28-7 Unit.

EXHIBIT "B"

Geological Report on the Nineteenth Expanded Participating Area of the Dakota formation within the San Juan 28-7 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-7 Unit Subsurface Structure Contour Map

Figure No. 2: San Juan 28-7 Unit Isopachous map

EXHIBIT "D"

Schedule of Dakota Gas Production

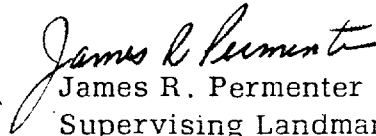
Regional Oil & Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
Page Three

Attached hereto is Schedule XX showing the proposed Nineteenth Expanded Participating Area for the Dakota formation in the San Juan 28-7 Unit Area. This schedule describes the Expanded Participating Area, shows the percentages of unitized substances allocated to each unitized tract and the percentages of ownership in each tract.

If this Nineteenth 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:AA:sv
Enclosures
S.J. 28-7 Unit 4.3

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

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

APPROVED: Alfred J. Arning DATE: February 14, 1974
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

SAN JUAN 28-7 UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Company (2)

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J. Simmons,
Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

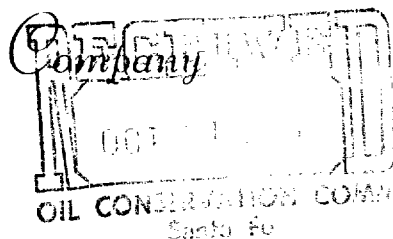
Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

El Paso, Texas 79978

October 9, 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 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
Approval of the Seventeenth and
Eighteenth Revisions of the Participating Area for the Dakota Formation

Gentlemen:

This is to advise that the captioned Expansions for the San Juan 28-7 Unit were approved by the Regulatory Bodies on the following dates:

United States Geological Survey	October 4, 1973
Commissioner of Public Lands	September 20, 1973
Oil Conservation Commission	September 26, 1973

Copies of this letter are being sent to the working interest owners of the San Juan 28-7 Unit.

Yours very truly,

A handwritten signature in cursive script that reads 'Alan Alexander'.

Alan Alexander
Landman
Land Department
Energy Resource Development

AEA:sn
S.J. 28-7, 4.3



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

October 4, 1973

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

Gentlemen:

Your application requesting approval of the seventeenth and eighteenth revisions of the Dakota participating area for the San Juan 28-7 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-459, was approved on October 4, 1973, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of May 1, 1973, and June 1, 1973, respectively.

The seventeenth revision adds 1,592.49 acres as described on page one of the application, which enlarges the Dakota participating area to 13,130.50 acres and the eighteenth revision adds 640.00 acres as described on page two of the application, which enlarges the Dakota participating area to 13,770.50 acres. Such revisions are based on the completion data of the following unit wells:

<u>Well No.</u>	<u>Location</u>	<u>Completion Date</u>	<u>Dakota Interval</u>	<u>CAOF MCFPD</u>
191	SE $\frac{1}{4}$ -33-28N-7W	May 22, 1973	7553-7780	2676
193	SW $\frac{1}{4}$ -28-28N-7W	May 30, 1973	7540-7755	3634
194	NE $\frac{1}{4}$ -21-28N-7W	June 13, 1973	7073-7298	2737

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

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil & Gas Supervisor

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

JFSims:ds

El Paso Natural Gas Company

El Paso, Texas 79978

October 2, 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 28-7 Unit #14-08-001-459
Rio Arriba County, New Mexico
Approval of the Fifteenth and
Sixteenth Revisions of the Participating
Area for the Dakota Formation

Gentlemen:

This is to advise that the captioned Expansions for the San Juan 28-7 Unit were approved by the Regulatory Bodies on the following dates:

United States Geological Survey	- September 26, 1973
Commissioner of Public Lands	- August 20, 1973
Oil Conservation Commission	- August 21, 1973

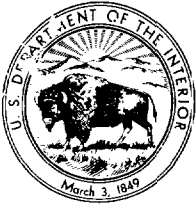
Copies of this letter are being sent to the working interest owners of the San Juan 28-7 Unit.

Yours very truly,



Alan Alexander
Landman
Land Department
Energy Resource Development

AA:sv
S.J. 28-7, 4.3



United States Department of the Interior

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

September 26, 1973

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

Gentlemen:

Your application requesting approval of the fifteenth and sixteenth revisions of the Dakota participating area for the San Juan 28-7 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-459, was approved on September 26, 1973, by the Oil and Gas Supervisor, U. S. Geological Survey effective as of March 1, 1973, and April 1, 1973, respectively.

The fifteenth revision adds 648.82 acres as described on page one of the application, which enlarges the Dakota participating area to 8,977.75 acres. The sixteenth revision adds 2,560.26 acres as described on page two of the application, which enlarges the Dakota participating area to 11,538.01 acres. Such revisions are based on the completion data of the following unit wells:

<u>Well No.</u>	<u>Location</u>	<u>Completion Date</u>	<u>Dakota Interval</u>	<u>CAOF MCFPD</u>
189	T. 28 N., R. 7 W. NE $\frac{1}{4}$ sec. 35	3-14-73	7078-7318	4226
131	SW $\frac{1}{4}$ sec. 34	4-27-73	7050-7316	4239
135	SW $\frac{1}{4}$ sec. 27	4-18-73	7032-7265	4501
190	NE $\frac{1}{4}$ sec. 27	4-18-73	7080-7298	4263

Copies of the approved application are being distributed to the appropriate Federal offices and two approved copies are returned herewith. The acreage total for lands described in sec. 36, T. 28 N., R. 7 W., has been corrected from 320 acres to 328.82 acres on page one of all copies of the application. You are requested to note this change on your records and furnish all interested parties with suitable evidence of this approval.

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Durango (w/cy appln. & engr. & geo. reports)
BLM, Santa Fe (w/cy appln.)

JFSims:ds:lh

N.M.O.C.C., Santa Fe (w/cy of appln.)
Com. Pub. Lands, Santa Fe (w/cy of appln.)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

September 26, 1973

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

Attention: Mr. James R. Permenter

Re: Seventeenth and Eighteenth
Expansions Dakota Participating
Area, San Juan 28-7 Unit, Rio
Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Seventeenth and Eighteenth Expanded Participating Areas of the Dakota Formation for the San Juan 28-7 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.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

El Paso Natural Gas Company

El Paso, Texas 79978

September 18, 1973

RECEIVED

SEP 19 9 52 AM '73

STATE LAND OFFICE
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
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 28-7 Unit #14-08-001-459,
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
SEVENTEENTH AND EIGHTEENTH EXPANDED
PARTICIPATING AREAS OF THE DAKOTA
FORMATION, Effective May 1, 1973
and June 1, 1973

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Seventeenth and Eighteenth Expanded Participating Areas for the Dakota Formation, to wit:

SEVENTEENTH EXPANDED PARTICIPATING AREA - Effective May 1, 1973

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 7 West, N.M.P.M.</u>	
Section 28: All	
Section 33: All	1,272.32
<u>Township 27 North, Range 7 West, N.M.P.M.</u>	
Section 4: E/2	320.17

September 18, 1973

This land is proven to be productive by the following:

The San Juan 28-7 Unit #191 well, located 890' from the South line and 1780' from the East line of Section 33, Township 28 North, Range 7 West, N.M.P.M., was spudded on April 11, 1973 and completed on May 3, 1973 at a total depth of 7837'. The Dakota Formation in the intervals between 7553'-7568', 7660'-7675', 7702'-7717', 7740'-7745', 7765'-7780', was treated with a sand -water fracturing process on May 2, 1973. The well was shut-in on May 4, 1973, and after being shut-in for eighteen (18) days the Dakota Formation was tested on May 22, 1973, and after a three-hour blow down period the well gauged 2626 MCF/D through a 3/4" choke and 2676 MCF/D by the calculated absolute open-flow method, with an SIPC of 2579 psia and an SIPT of 941 psia.

The San Juan 28-7 Unit #193 well, located 915' from the South line and 1170' from the West line of Section 28, Township 28 North, Range 7 West, N.M.P.M., was spudded on May 7, 1973 and completed on May 22, 1973 at a total depth of 7798'. The Dakota Formation in the intervals between 7540'-7560', 7650'-7665', 7686'-7691', 7702'-7722', 7735'-7740', 7750'-7755', was treated with a sand-water fracturing process on May 21, 1973. The well was shut-in on May 23, 1973, and after being shut-in for seven (7) days the Dakota Formation was tested on May 30, 1973, and after a three-hour blow down period the well gauged 3448 MCF/D through a 3/4" choke and 3634 MCF/D by the calculated absolute open-flow method, with an SIPC of 2360 psia and an SIPT of 1810 psia.

EIGHTEENTH EXPANDED PARTICIPATING AREA - Effective June 1, 1973

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 28 North, Range 7 West, N.M.P.M.</u>	
Section 21: E/2	
Section 22: W/2	640.00

This land is proven to be productive by the following:

The San Juan 28-7 Unit #194 well, located 1013' from the North line and 1070' from the East line of Section 21, Township 28 North, Range 7 West, N.M.P.M., was

September 18, 1973

spudded on May 18, 1973 and completed on June 3, 1973 at a total depth of 7314'. The Dakota Formation in the intervals between 7073'-7085', 7095'-7107', 7194'-7210', 7230'-7240', 7258'-7268', 7288'-7298', was treated with a sand-water fracturing process on June 2, 1973. The well was shut-in on June 4, 1973, and after being shut-in for nine (9) days the Dakota Formation was tested on June 13, 1973, and after a three-hour blow down period the well gauged 2681 MCF/D through a 3/4" choke and 2737 MCF/D by the calculated absolute open-flow method, with an SIPC of 2524 psia and an SIPT of 1606 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 Seventeenth and Eighteenth Participating Areas of the Dakota formation within the San Juan 28-7 Unit.

EXHIBIT "B"

Geological Report on the Seventeenth and Eighteenth Expanded Participating Areas of the Dakota Formation within the San Juan 28-7 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-7 Unit Subsurface Structure Contour Map

Figure No. 2: San Juan 28-7 Unit Isopachous Map

EXHIBIT "D"

Schedule of Dakota Gas Production

Attached hereto are Schedules XVIII and XIX showing the proposed Seventeenth and Eighteenth Expanded Participating Areas for the Dakota Formation in the San Juan 28-7 Unit Area. These schedules describe the Expanded Participating Areas, show the percentages of unitized substances allocated to each unitized tract and the percentages of ownership in each tract.

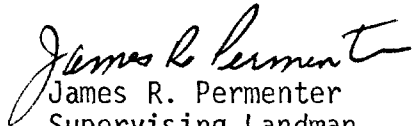
Regional Oil & Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
Page Four

September 18, 1973

If these Seventeenth and Eighteenth 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

JRP:AA:lj
Enclosures
SJ 28-7 Unit 4.3

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

APPROVED: _____

DATE: _____

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

APPROVED: _____

DATE: 9-20-73

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

APPROVED: _____

DATE: 9-26-73

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

SAN JUAN 28-7 UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Koch Industries, Inc.

Dixie M. McLane Trust

Pubco Petroleum Corporation (2)

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J. Simmons,
Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

El Paso Natural Gas Company

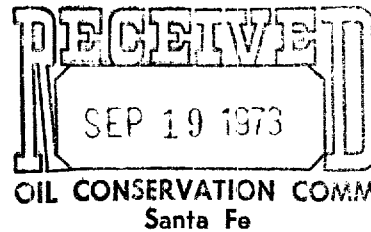
El Paso, Texas 79978

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 28-7 Unit, #14-08-001-459,
NOTICE OF COMPLETION OF ADDITIONAL
WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 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 28-7 Unit #186 well, located 1600' from the South line and 1500' from the West line of Section 13, Township 28 North, Range 7 West, N.M.P.M., was spudded on June 21, 1973, and completed on August 6, 1973, at a total depth of 7937'. The Dakota Formation in the intervals between 7680'- 7690', 7620'- 7720', 7795'- 7797', 7825'- 7843', 7863'- 7917' was treated with a sand-water fracturing process on August 4, 1973. The well was shut-in on August 6, 1973, and after being shut-in for eleven (11) days the Dakota Formation was tested on August 17, 1973, and after a three-hour blow-down period the well gauged 5077 MCF/d through a 3/4" choke and 5353 MCF/d by the calculated absolute open-flow method, with an SIPC of 2799 psia and an SIPT of

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

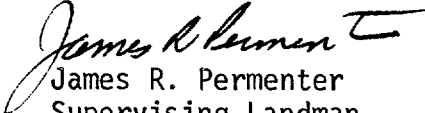
September 17, 1973

of 2756 psia. The spacing unit for this well is described as the W/2 of Sec. 13, T-28-N, R-7-W, containing 320.00 acres.

This spacing unit was an intervening drilling block which was included in the San Juan 28-7 Unit Twelfth Expanded Participating Area of the Dakota Formation, effective November 1, 1955 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

JP:AA:sv
Enclosure

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

San Juan 28-7 Unit
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Koch Industries, Inc.

Dixie M. McLane Trust

Mesa Petroleum Company

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J.
Simmons, Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

The Wiser Oil Company

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

August 21, 1973

44

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

Attention: Mr. James R. Permenter

Re: Fifteen and Sixteenth Expansions
Dakota Participating Area,
San Juan 28-7 Unit, Rio Arriba
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Fifteenth and Sixteenth Expanded Participating Areas of the Dakota Formation for the San Juan 28-7 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

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

Very truly yours,

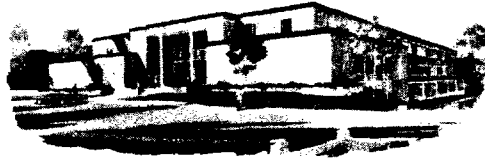
A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

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

745
State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

August 20, 1973

ALEX J. ARMIJO
COMMISSIONER

P. O. Box 9148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
FIFTEENTH AND SIXTEENTH EXPANDED
PARTICIPATING AREAS OF THE DAKOTA
FORMATION, Effective March 1, 1973
and April 1, 1973

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved the Fifteenth and Sixteenth Expanded Participating Areas for the Dakota Formation, for the San Juan 28-7 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 eight (8) copies of the application to the Oil Conservation Commission requesting them to forward five (5) copies to the United States Geological Survey at Roswell, New Mexico for their consideration. Two copies to be returned to the Commissioner of Public Lands and one copy must be retained by the Oil Conservation Commission. After this application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso Natural Gas Company.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s

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

El Paso Natural Gas Company

El Paso, Texas 79978

August 10, 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 28-7 Unit #14-08-001-459,
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
FIFTEENTH AND SIXTEENTH EXPANDED
PARTICIPATING AREAS OF THE DAKOTA
FORMATION, Effective March 1, 1973
and April 1, 1973

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 28-7 Unit Agreement, #14-08-001-459, approved January 29, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Fifteenth and Sixteenth Expanded Participating Areas for the Dakota Formation, to wit:

FIFTEENTH EXPANDED PARTICIPATING Area - Effective March 1, 1973

<u>Description of Lands</u>	<u>Acres</u>
T-28-N, R-7-W, N.M.P.M.	
Section 35: N/2	640.00
Section 36: W/2	

This land is proven to be productive by the following:

The San Juan 28-7 Unit #189 well, located 1180' from the North line and 1180' from the East line of Section 35, Township 28 North, Range 7 West, N.M.P.M., was spudded on February 16, 1973, and completed on March 6, 1973, at a total depth of 7337'. The Dakota Formation in the

intervals between 7078'-7094', 7104'-7116', 7196'-7212', 7234'-7242', 7270'-7278', 7310'-7318', was treated with a sand-water fracturing process on March 4, 1973. The well was shut-in on March 6, 1973, and after being shut-in for eight (8) days the Dakota Formation was tested on March 14, 1973, and after a three-hour blow-down period the well gauged 3995 MCF/D through a 3/4" choke and 4226 MCF/D by the calculated absolute open-flow method, with an SIPC of 2567 psia and an SIPT of 1902 psia.

SIXTEENTH EXPANDED PARTICIPATING AREA - Effective April 1, 1973

<u>Description of Lands</u>	<u>Acres</u>
<u>T-28-N, R-7-W, N.M.P.M.</u>	
Section 23: S/2	
Section 26: All	
Section 27: All	
Section 34: N/2, N/2 S/2, Lots 1,2,3,4 (All)	2,240.27
<u>T-27-N, R-7-W, N.M.P.M.</u>	
Section 3: W/2	319.99

The San Juan 28-7 Unit #131 well, located 1680' from the South line and 870' from the West line of Section 34, Township 28 North, Range 7 West, N.M.P.M., was spudded on March 19, 1973, and completed on April 19, 1973, at a total depth of 7329'. The Dakota Formation in the intervals between 7050'-7056', 7068'-7080', 7178'-7194', 7238'-7244', 7256'-7273', 7306'-7316', was treated with a sand-water fracturing process on April 17, 1973. The well was shut-in on April 19, 1973, and after being shut-in for eight (8) days the Dakota Formation was tested on April 27, 1973, and after a three-hour blow-down period the well gauged 4239 MCF/D through a 3/4" choke and 4442 MCF/D by the calculated absolute open-flow method, with an SIPC of 2596 psia and an SIPT of 1610 psia.

The San Juan 28-7 Unit #135 well, located 800' from the South line and 800' from the West line of Section 27, Township 28 North, Range 7 West, N.M.P.M., was spudded on February 28, 1973, and completed on April 4, 1973, at a total depth of 7312'. The Dakota Formation in the intervals between 7032'-7040', 7052'-7064', 7152'-7168', 7206'-7212', 7220'-7226', 7236'-7242', 7259'-7265', was treated with a sand-water fracturing process on April 2, 1973. The well was shut-in on April 5, 1973, and after being shut-in

for thirteen (13) days the Dakota Formation was tested on April 18, 1973, and after a three-hour blow-down period the well gauged 4279 MCF/D through a 3/4" choke and 4501 MCF/D by the calculated absolute open-flow method, with an SIPC of 2634 psia and an SIPT of 2281 psia.

The San Juan 28-7 Unit #190 well, located 1840' from the North line and 800' from the East line of Section 27, Township 28 North, Range 7 West, N.M.P.M., was spudded on February 23, 1973, and completed on March 20, 1973, at a total depth of 7362'. The Dakota Formation in the intervals between 7080'-7098', 7185'-7198', 7246'-7258', 7268'-7276', 7290'-7298', was treated with a sand-water fracturing process on March 20, 1973. The well was shut-in on March 21, 1973, and after being shut-in for twenty-eight (28) days the Dakota Formation was tested on April 18, 1973, and after a three-hour blow-down period the well gauged 3952 MCF/D through a 3/4" choke and 4263 MCF/D by the calculated absolute open-flow method, with an SIPC of 2174 psia and an SIPT of 1766 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 Fifteenth and Sixteenth Participating Areas of the Dakota formation within the San Juan 28-7 Unit.

EXHIBIT "B"

Geological Report on the Fifteenth and Sixteenth Expanded Participating Areas of the Dakota formation within the San Juan 28-7 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 28-7 Unit Subsurface Structure Contour Map
Figure No. 2: San Juan 28-7 Unit Isopachous Map

EXHIBIT "D"

Schedule of Dakota Gas Production


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

Attached hereto are Schedules XVI and XVII showing the proposed Fifteenth and Sixteenth Expanded Participating Areas for the Dakota formation in the San Juan 28-7 Unit Area. These schedules describe the Expanded Participating Areas, show the percentage of unitized substances allocated to each unitized tract and the percentage of ownership in each tract.

If these Fifteenth and Sixteenth 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

JRP:AA:sv
Enclosures
S.J. 28-7 Unit, 4.3

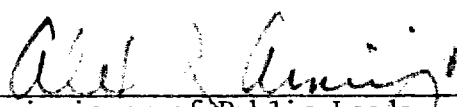
cc: Mrs. Pepita O. Jeffus
Executive Director
New Mexico Oil & Gas Accounting Commission
Post Office Box 2308
Santa Fe, New Mexico 87501

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:

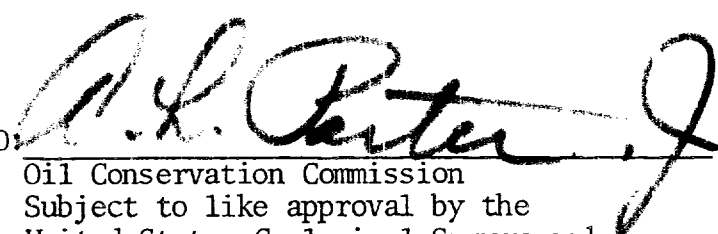
APPROVED:


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

DATE:

August 20, 1973

APPROVED:


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

DATE:

August 22, 1973

SAN JUAN 28-7 UNIT
Working Interest Owners

Burton-Hawks, Inc.

Continental Oil Company

Koch Industries, Inc.

Dixie M. McLane Trust

Pubco Petroleum Corporation (2)

Reserve Oil & Gas Company

Mr. W. H. Riddle

Mrs. Thelma Ford Simmons, Independent
Executrix of the Estate of D. J.
Simmons, Deceased

Tenneco Oil Company

Mr. J. Glenn Turner

Union Oil Company of California

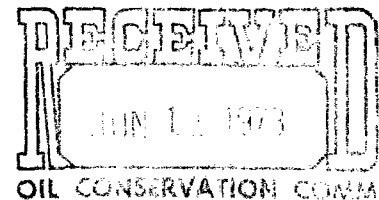
The Wiser Oil Company



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



June 8, 1973

In Reply Refer To:
Gillham/Engr.

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

Gentlemen:

Two approved copies of your 1973 plan of development for the San Juan 28-7 unit area, Rio Arriba County, New Mexico, proposing the drilling of two Pictured Cliffs wells, twelve Pictured Cliffs-Chacra dual wells and fifteen 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,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

Denver (w/cy plan)

Durango (w/cy plan)

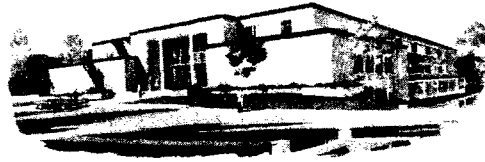
✓ NMOCC, Santa Fe (ltr only)

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

JAGillham:ds

State of New Mexico

TELEPHONE
505-827-2743



Commissioner of Public Lands

ALEX J. ARMIJO
COMMISSIONER

June 7, 1973

P. O. BOX 1148
SANTA FE, NEW MEXICO

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

Re: San Juan 28-7 Unit
Rio Arriba County, New Mexico
1973 DRILLING PROGRAM

ATTENTION: Mr. D. M. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1973 Drilling Program for the San Juan 28-7 Unit, which proposes the drilling of twenty-nine (29) additional 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.

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