

MAY 14 1982

MAY 12 1982

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

554

Gentlemen:

Three approved copies of your 1982 plan of development for the San Juan 29-4 unit area, Rio Arriba County, New Mexico, are enclosed. Such plan, proposing the drilling of ~~four~~ Mesaverde wells, one Pictured Cliffs well, and one Dakota/Mesaverde well, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

The possibility might exist of drainage by wells outside of the unit boundary. You will be contacted by our Development Unit about this possibility.

Sincerely yours,

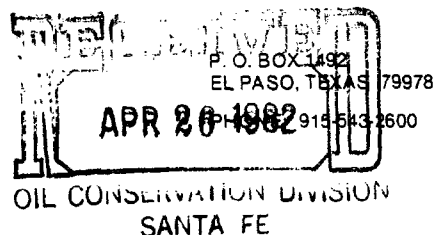
(ORIG. SGD) JOE G. LARA

FOR Gene F. Daniel
Deputy Minerals Manager
Oil and Gas

Enclosure

cc:
NMOCD, Santa Fe
DS, Farmington (w/encl)

El Paso NATURAL GAS
COMPANY



April 19, 1982

Area Oil and Gas Supervisor
United States Geological Survey
Post Office Box 26124
Albuquerque, New Mexico 87125

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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELLS
Mesaverde and Dakota Formations

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to the Unit. One well, the #133, is also capable of producing unitized substances from the Dakota formation. These wells are as follows:

The San Juan 27-4 Unit #20A Well, located 1040' from the South line and 850' from the East line of Section 29, Township 27 North, Range 4 West, N.M.P.M., was spudded on October 12, 1979, and completed on December 18, 1979, at a plugged back depth of 6645'. The Mesaverde Formation at the selected intervals between 5744' and 6466' was treated with a sand-water fracturing process on December 4, 1979. The well was shut-in on December 7, 1979, and after being shut-in for eleven (11) days, the Mesaverde Formation was tested on December 18, 1979, using the Pitot tube method with an after frac guage of 1295 MCF/D, with an SIPC of 1188 psia and an SIPT of 770 psia. The spacing unit for this well is described as the E/2 of Section 29, Township 27 North, Range 4 West, N.M.P.M., containing 320.00 acres.

The San Juan 27-4 Unit #134 Well, located 1190' from the South line and 1850' from the West line of Section 9, Township 27 North, Range 4 West, N.M.P.M., was spudded on September 10, 1979, and completed on November 27, 1979, at a plugged back depth of 6219'. The Mesaverde Formation at the selected intervals between 5368' and 6111' was treated with a sand-water fracturing process on November 16, 1979. The well shut-in on June 9, 1980, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on June 17, 1980, using the Pitot tube method with an after frac guage of 1237 MCF/D, with an SIPC of 1114 psia and an SIPT of 590 psia. The spacing unit for this well is described as the W/2 of Section 9, Township 27 North, Range 4 West, N.M.P.M., containing 320.00 acres.

The San Juan 27-4 Unit #133 Well, located 2335' from the South line and 2225' from the West line of Section 27, Township 27 North, Range 4 West, N.M.P.M., was spudded on October 1, 1979, and completed on August 7, 1980, at a plugged back depth of 8418'. The Mesaverde Formation at the selected intervals between 6143' and 6532' was treated with a sand-water fracturing process on May 29, 1980. The well was shut-in on June 15, 1980, and after being shut-in for fifty-three (53) days, the Mesaverde Formation was tested on August 7, 1980, using the Pitot tube method with an after frac guage of 11,512 MCF/D, with an SIPC of 1147 psia and an SIPT of 1087 psia. The Dakota Formation at the selected intervals between 8176' and 8384' was treated with a sand-water fracturing process on May 28, 1980. The well was shut-in on June 12, 1980, and after being shut-in for forty-nine (49) days, the Dakota Formation was tested on July 31, 1980, using the Pitot tube method with an after frac guage of 425 MCF/D, with an SIPT of 925 psia. The spacing unit for this well is described as the W/2 of Section 27, Township 27 North, Range 4 West, N.M.P.M., containing 320.00 acres.

All three (3) of the drilling blocks for the above-described wells are included within the existing Mesaverde and Dakota Participating Areas; therefore, the Mesaverde and Dakota Participating Areas are not enlarged by these wells.

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

Very truly yours,



Robert J. Hopkins
Landman
Land Department

RJH/en
Attachment
SJ 27-4, 4.2.1, 4.3.1

cc: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

554

MEMORANDUM

RE: 1982 Plan of Development for San Juan 27-4
Unit, Rio Arriba County, New Mexico

The above-described 1982 Plan of Development was approved on April 19, 1982. Inadvertently the last well name was left off the plan. This well is Well No. 32 and should be added before the description: W/2 of Section 23.

El Paso Natural Gas Co.



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

April 19, 1982

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

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

554

Attention: Mr. D. N. Canfield

Re: 1982 Plan of Development for
San Juan 27-4 Unit, Rio Arriba
County, New Mexico

Dear Mr. Canfield:

The New Mexico Oil Conservation Division has this date approved your 1982 Plan of Development for the San Juan 27-4 Unit, Rio Arriba County, New Mexico. Our approval is subject to like approval by the Minerals Management Service and the Commissioner of Public Lands of the State of New Mexico.

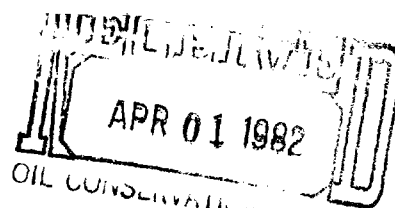
Sincerely,

W. PERRY PEARCE
General Counsel

WPP/dr

cc: Minerals Management Service - Albuquerque
Commissioner of Public Lands - Santa Fe

El Paso NATURAL GAS
COMPANY



OIL CONSERVATION DIVISION, BOX 1492
SANTA FE, EL PASO, TEXAS 79978
PHONE: 915-543-2600

March 31, 1982

Area Oil and Gas Supervisor
United States Geological Survey
Post Office Box 26124
Albuquerque, New Mexico 87125

554

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
1982 Drilling Program

Gentlemen:

By letter dated June 19, 1981, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program concerning the captioned unit for the calendar year 1981 providing for the drilling of six Mesaverde wells (#139, #140, #141, #142, #143, #144). All the wells have been completed and are within the Mesaverde Formation Participating Area.

As of this date, the total number of active wells in the San Juan 27-4 Unit is as follows:

Pictured Cliffs	43
Mesaverde	30
Dakota	32
Mesaverde (Non-commercial)	1
Dakota (Non-commercial)	1
Pictured Cliffs/Mesaverde	23
Mesaverde/Dakota	5
Gallup/Dakota	3
	<hr/>
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Pursuant to Section 10 of the San Juan 27-4 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby submits a Drilling Program providing for the drilling of the following wells during the calendar year of 1982.

March 10, 1982
Page 2

<u>Well</u>	<u>Drilling Block</u>	<u>Formation</u>
#145	W/2 Section 21-27N-4W	Mesaverde
#146	E/2 Section 4-27N-4W	Mesaverde
#147	E/2 Section 3-27N-4W	Mesaverde
#148	SW/4 Section 5-27N-4W	Pictured Cliffs
#149	W/2 Section 22-27N-4W	Mesaverde
#150	SW/4 Section 36-27N-4W	Dakota
	W/2 Section 23-27N-4W	Mesaverde


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

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

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

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

Very truly yours,


D. N. Canfield *RJH*
Attorney-in-Fact *Sum*

DNC/RJH/gs
Attachment
San Juan 27-4, 3.0

cc: Commissioner of Public Lands
(Information Only)

APPROVED: _____

DATE: _____

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

APPROVED: _____

DATE: _____

W. Perry Raman
Oil Conservation Division
Subject to like approval by the
United States Geological Survey
and the Commissioner of Public Lands

The foregoing approvals for the 1982 Drilling Program for the San Juan 27-4
Unit #14-08-001-1054, Rio Arriba County, New Mexico.

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

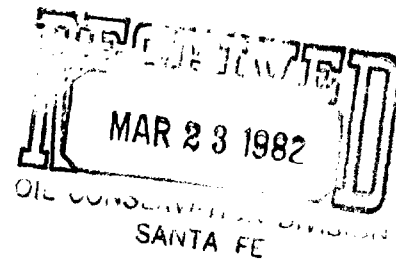
Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero



MAR 22 1982

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

554

Gentlemen:

Enclosed are three copies of the Eighteenth and Nineteenth Revision to the Pictured Cliffs participating area and the Twenty-Fourth thru Twenty-Seventh Revision to the Mesaverde participating area in the San Juan 27-4 Unit. The notice of expansion is hereby accepted for record on this date.

Sincerely yours,

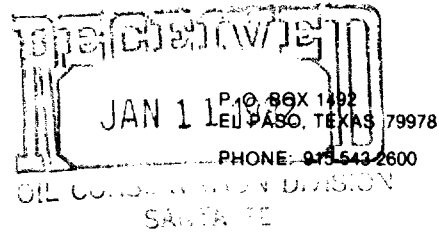
(ORIG. SGD.) JAMES W. SHELTON

FOR Gene F. Daniel
Deputy Minerals Manager
Oil and Gas

Enclosures

cc:
NMOCD, Santa Fe
DS, Farmington (w/cy)
Roswell Accounting

El Paso
Exploration Company



January 8, 1982

Area Oil and Gas Supervisor
United States Geological Survey
Post Office Box 26124
Albuquerque, New Mexico 87125

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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
TWENTY-FIFTH EXPANDED PARTICIPATING
AREA - Mesaverde Formation,
Effective August 1, 1980

Gentlemen:

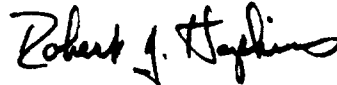
Find enclosed a corrected page two for the captioned expansion schedule. The acreage and present actual participation figures for Tract 6 were incorrect as initially presented. The correct figures for Tract 6 should be 1924.72 acres with a present actual participation of 14.312367%.

Please insert the corrected page into the previously submitted Twenty-Fifth Expanded Participating Area for the Mesaverde Formation in the San Juan 27-4

Regulatory Agencies
Page 2

Unit Area. We apologize for any inconvenience this error may have caused. Copies of this letter are being sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,



Robert J. Hopkins
Landman
Land Department

RJH:jec
Attachments
SJ 27-4 Unit 4.2

cc: Dayne Adams
T. L. Cruikshank (2)
Whitney Stevens
Gas Accounting
Joe D. Stevens,
Reservoir Engineering

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

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

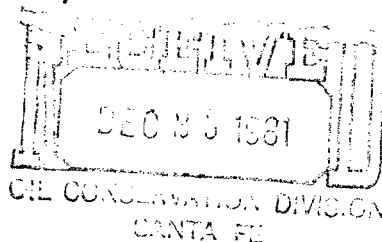
Mr. M. A. Romero

SCHEDULE XXVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080670	T-27-N, R-4-W Sec. 29: All Sec. 30: Lots 1,2,3,4, E/2 W/2, E/2 (All) Sec. 31: Lots 1,2,3,4, E/2 W/2, E/2 (All)	1924.72	Royalty; Working Interest: El Paso Natural Gas Co.; PMG Partnership ORRI;	12.500000%	12.500000%	<u>14.312367%</u>
	TOTAL			100.000000%	100.000000%	
SF 080671-A	T-27-N, R-4-W Sec. 11: W/2	320.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	<u>2.379545%</u>
	TOTAL			100.000000%	100.000000%	
SF 080672	T-27-N, R-4-W Sec. 14: W/2 Sec. 23: All	960.00	Royalty; Working Interest: El Paso Natural Gas Co.; PMG Partnership ORRI;	12.500000%	12.500000%	<u>7.138635%</u>
	TOTAL			100.000000%	100.000000%	
SF 080673	T-27-N, R-4-W Sec. 5: Lots 1, 2, S/2 NE/4, SE/4 Sec. 6: Lots 1,2,3,4,5,6,7, SE/4 NW/4,S/2 NE/4, E/2 SW/4, SE/4 Sec. 7: Lots 1,2,3,4, E/2 W/2, E/2 (All) Sec. 8: All	2241.52	Royalty; Working Interest; El Paso Natural Gas Company PMG Partnership ORRI;	12.500000%	12.500000%	<u>16.668117%</u>
	TOTAL			100.000000%	100.000000%	

December 18, 1981

Area Oil and Gas Supervisor
United States Geological Survey
Post Office Box 26124
Albuquerque, New Mexico 87125



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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
TWENTY-SEVENTH EXPANDED PARTICIPATING
AREA - Mesaverde Formation,
Effective November 1, 1980

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that two (2) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed on acreage committed to this unit. The wells have also created four (4) Intervening Drilling Blocks. The #137 (Mesaverde) well was drilled and completed on this acreage in 1980. The #138 (Mesaverde) well was drilled and completed on this acreage in 1980. The Participating Area for the Mesaverde Formation is expanded to include the following wells and acreage.

Twenty-Seventh Expanded Participating Area - Effective 11-1-80

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
T-27-N, R-4-W		
Section 34: W/2	320.00	SJ 27-4 #137
Section 16: E/2	320.00	SJ 27-4 #138
Section 34: NE/4	160.00	Intervening Drilling Block
Section 15: W/2	320.00	Intervening Drilling Block
Section 21: E/2	320.00	Intervening Drilling Block
Section 22: W/2	320.00	Intervening Drilling Block

Regulatory Agencies

Page Two

Pertinent data on this well is as follows:

The San Juan 27-4 Unit #137 Well, located 800' from the North line and 1120' from the East line of Section 34, Township 27 North, Range 4 West, N.M.P.M., was spudded on August 11, 1980, and completed on October 2, 1980, at a total depth of 6699'. The Mesaverde Formation at the intervals of 5761', 5768', 5814', 5818', 5826', 5830', 5852', 5857', 5878', 5884', 6249', 6254', 6268', 6273', 6283', 6292', 6297', 6306', 6312', 6318', 6330', 6336', 6345', 6358', 6372', 6382', 6400', 6448', 6464', 6487', 6502', 6549', 6554', 6594', and 6612' was treated with a sand-water fracturing process on September 22, 1980. The well was shut-in on September 25, 1980, and after being shut-in for seven (7) days, the Mesaverde Formation was tested on October 2, 1980, using the Pitot Tube method with an after frac guage of 1137 MCF/D, with an SIPC of 1120 psia and an SIPT of 465 psia. The spacing unit for this well is described as the W/2 of Section 34, Township 27 North, Range 4 West, N.M.P.M., covering 320.00 acres.

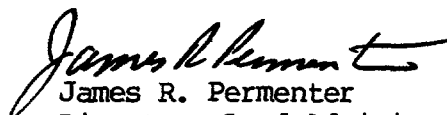
The San Juan 27-4 Unit #138 Well, located 1120' from the South line and 1800' from the East line of Section 16, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 27, 1980, and completed on October 21, 1980, at a total depth of 6683'. The Mesaverde Formation at the intervals of 5768', 5777', 5789', 5826', 5858', 5839', 5845', 5970', 5876', 5882', 6244', 6274', 6250', 6256', 6262', 6268', 6305', 6312', 6333', 6347', 6356', 6373', 6456', 6472', 6511', and 6556' was treated with a sand-water fracturing process on August 20, 1980. The well was shut-in on September 24, 1980, and after being shut-in for nineteen (19) days, the Mesaverde Formation was tested on October 13, 1980, using the choke nipple method with an absolute open flow of 6383 MCF, with an SIPC of 1047 psia and an SIPT of 1055 psia. The spacing unit for this well is described as the E/2 of Section 16, Township 27 North, Range 4 West, N.M.P.M., covering 320.00 acres.

Attached is Schedule XXVIII showing the Twenty-Seventh Expanded Participating Area for the Mesaverde Formation of the San Juan 27-4 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as the Schedule requires no official approval, no provision is made therefor, and in the absence of disapproval, the Twenty-Seventh Expanded Participating Area will become effective as of November 1, 1980.

Regulatory Agencies
Page Three

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

Very truly yours,


James R. Permenter
Director, Land Administration
Land Department

JRP:RJH:jec
Attachment
SJ 27-4, 4.2

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

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XXVIII
TWENTY-SEVENTH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 013297	T-27-N, R-4-W	319.91				<u>2.018621%</u>
	Sec. 1: Lots 3, 4, S/2 NW/4, SW/4		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	
				83.750000%	83.750000%	
				3.750000%	3.750000%	
				<u>100.000000%</u>	<u>100.000000%</u>	
SF 079527	T-27-N, R-4-W	1280.00				<u>8.076754%</u>
	Sec. 26: All		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	
	Sec. 36: All			83.750000%	83.750000%	
				3.750000%	3.750000%	
				<u>100.000000%</u>	<u>100.000000%</u>	
SF 080668	T-27-N, R-4-W	639.20				<u>4.033329%</u>
	Sec. 4: Lots 3, 4, S/2 NW/4, SW/4		Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.500000%	12.500000%	
	Sec. 9: W/2			41.250000%	41.250000%	
				41.250000%	41.250000%	
				5.000000%	5.000000%	
			<u>100.000000%</u>	<u>100.000000%</u>		
SF 080669	T-27-N, R-4-W	2080.84				<u>13.130026%</u>
	Sec. 17: NW/4, E/2 SW/4, E/2		Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.500000%	12.500000%	
	Sec. 18: Lots 1, 2, E/2 NW/4, NE/4, S/2 SE/4			41.250000%	41.250000%	
	Sec. 19: NE/4 SW/4, NW/4, S/2 SE/4			41.250000%	41.250000%	
	Sec. 20: All			5.000000%	5.000000%	
			<u>100.000000%</u>	<u>100.000000%</u>		

SCHEDULE XXVIII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080670	T-27-N, R-4-W	2564.72	TRACT 6			16.183292%
	Sec. 29: All		Royalty;	12.500000%	12.500000%	
	Sec. 30: All		Working Interest;			
	Sec. 31: All		El Paso Natural Gas Co.;	41.250000%	41.250000%	
	Sec. 32: All		PWG Partnership	41.250000%	41.250000%	
			ORRI;	5.000000%	5.000000%	
			TOTAL	100.000000%	100.000000%	
SF 080671-A	T-27-N, R-4-W	320.00	TRACT 8			2.019189%
	Sec. 11: W/2		Royalty;	12.500000%	12.500000%	
			Working Interest;			
			El Paso Natural Gas Co.;	82.500000%	82.500000%	
			ORRI;	5.000000%	5.000000%	
			TOTAL	100.000000%	100.000000%	
SF 080672	T-27-N, R-4-W	960.00	TRACT 9			6.057566%
	Sec. 14: W/2		Royalty;	12.500000%	12.500000%	
	Sec. 23: All		Working Interest;			
			El Paso Natural Gas Co.;	41.250000%	41.250000%	
			PWG Partnership	41.250000%	41.250000%	
			ORRI;	5.000000%	5.000000%	
			TOTAL	100.000000%	100.000000%	
SF 080673	T-27-N, R-4-W	2241.52	TRACT 10			14.143911%
	Sec. 5: Lots 1, 2, S/2		Royalty;	12.500000%	12.500000%	
	NE/4, SE/4		Working Interest;			
	Sec. 6: Lots 1, 2, 3, 4,		El Paso Natural Gas Co.;	41.250000%	41.250000%	
	5, 6, 7, SE/4		PWG Partnership	41.250000%	41.250000%	
			NW/4, S/2 NE/4,	5.000000%	5.000000%	
			E/2 SW/4, SE/4			
	Sec. 7: Lots 1, 2, 3, 4,					
	E/2 W/2, E/2 (All)					
	Sec. 8: All		TOTAL	100.000000%	100.000000%	

SCHEDULE XXVIII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080674	T-27-N, R-4-W	2560.00	TRACT 11			16.153509%
	Sec. 15: All		Royalty;	12.500000%	12.500000%	
	Sec. 16: All		Working Interest:			
	Sec. 21: All		El Paso Natural Gas Co.;	41.250000%	41.250000%	
	Sec. 22: All		PWG Partnership	27.500000%	27.500000%	
			T. H. Harrington	2.750000%	2.750000%	
			Gerald E. Harrington	2.750000%	2.750000%	
			F. Eugene Harrington	2.750000%	2.750000%	
			James V. Harrington	2.750000%	2.750000%	
			Mary Jone Chappell	2.750000%	2.750000%	
			ORRI;	5.000000%	5.000000%	
			TOTAL	100.000000%	100.000000%	
SF 080673	T-27-N, R-4-W	2400.00	TRACT 12			15.143915%
	Sec. 27: All		Royalty;	12.500000%	12.500000%	
	Sec. 28: All		Working Interest:			
	Sec. 33: All		El Paso Natural Gas Co.;	41.250000%	41.250000%	
	Sec. 34: W/2, NE/4		PWG Partnership	27.500000%	27.500000%	
			T. H. Harrington	2.750000%	2.750000%	
			Gerald E. Harrington	2.750000%	2.750000%	
			F. Eugene Harrington	2.750000%	2.750000%	
			James V. Harrington	2.750000%	2.750000%	
			Mary Jone Chappell	2.750000%	2.750000%	
			ORRI;	5.000000%	5.000000%	
			TOTAL	100.000000%	100.000000%	
Fee	T-27-N, R-4-W	321.13	TRACT 13			2.026319%
	Sec. 17: W/2 SW/4		Royalty	12.500000%	12.500000%	
	Sec. 18: N/2 SE/4		Working Interest:			
	Sec. 19: Lots 2, 3, 4, SE/4 SW/4		El Paso Natural Gas Co.;	82.500000%	82.500000%	
			ORRI;	5.000000%	5.000000%	
			TOTAL	100.000000%	100.000000%	

SCHEDULE XXVIII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 14						
T-27-N, R-4-W Sec. 18: Lots 3, 4, E/2 SW/4		160.63	Royalty;	12.500000%	12.500000%	
			Working Interest;			
			El Paso Natural Gas Co.;	85.000000%	85.000000%	
			ORRI;	2.500000%	2.500000%	
				100.000000%	100.000000%	
					1.013569%	

SCHEDULE XXVIII

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

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

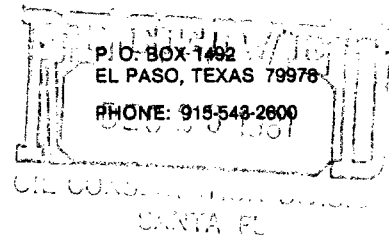
Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Sections 1, 4, 9, 11, 14: W/2
Section 5: E/2
Sections 6, 7, 8, 15, 16, 17, 18, 19, 20, 21,
22, 23, 26, 27, 28, 29, 30, 31, 32, 33, 36: All
Section 34: W/2, NE/4

Total number of acres in Participating Area: 15,847.95

Percent of Basic Royalty Committed: 100.000000%
Percent of Working Interest Committed: 100.000000%
Percent of ORRI Committed: 100.000000%



December 18, 1981

Area Oil and Gas Supervisor
United States Geological Survey
Post Office Box 26124
Albuquerque, New Mexico 87125

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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
TWENTY-SIXTH EXPANDED PARTICIPATING
AREA - Mesaverde Formation,
Effective October 1, 1980

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that an additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed on acreage committed to this unit. The well has also created an Intervening Drilling Block. The #108 (Mesaverde) well was drilled and completed on this acreage in 1980. The Participating Area for the Mesaverde Formation is expanded to include the following well and acreage.

Twenty-Sixth Expanded Participating Area - Effective 10-1-80

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
<u>T-27-N, R-4-W</u>		
Section 32: E/2	320.00	SJ 27-4 #108
Section 32: W/2	320.00	Intervening Drilling Block


Pertinent data on this well is as follows:

The San Juan 27-4 Unit #108 Well, located 1810' from the South line and 1580' from the East line of Section 32, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 22, 1980, and completed on September 8, 1980, at a total depth of 6421'. The Mesaverde Formation at the intervals of 5454', 5469', 5479', 5495', 5500', 5537', 5544', 5577', 5930', 5936', 5949', 5962', 5973', 5987', 5992', 6006', 6011', 6016', 6046', 6054', 6063', 6080', 6152', 6175', 6237', 6247', and 6282' was treated with a sand-water fracturing process on August 28, 1980. The well was shut-in on August 31, 1980, and after being shut-in for eight (8) days, the Mesaverde Formation was tested on September 8, 1980, using the Pitot Tube method with an after frac guage of 1190 MCF/D, with an SIPC of 1188 psia and an SIPT of 540 psia. The spacing unit for this well is described as the E/2 of Section 32, Township 27 North, Range 4 West, N.M.P.M., covering 320.00 acres.

Attached is Schedule XXVII showing the Twenty-Sixth Expanded Participating Area for the Mesaverde Formation of the San Juan 27-4 Unit Area. The Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as the Schedule requires no official approval, no provision is made therefor, and in the absence of disapproval, the Twenty-Sixth Expanded Participating Area will become effective as of October 1, 1980.

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

Very truly yours,


James R. Permenter
Director, Land Administration
Land Department

JRP:RJH:jec
Attachment
SJ 27-4, 4.2

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

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

UNIT AREA EXPANSION SCHEDULE -- SAN JUAN BASIN

Form 21-71 (2-72)

SCHEDULE XXVII
 TWENTY-SIXTH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
 SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 013297	T-27-N, R-4-W	319.91	<u>TRACT 1</u>			<u>2.270806%</u>
	Sec. 1: Lots 3, 4, S/2 NW/4, SW/4		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	
				83.750000%	83.750000%	
				3.750000%	3.750000%	
	TOTAL			100.000000%	100.000000%	
SF 079527	T-27-N, R-4-W	1280.00	<u>TRACT 2</u>			<u>9.085779%</u>
	Sec. 26: All		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	
	Sec. 36: All			83.750000%	83.750000%	
				3.750000%	3.750000%	
	TOTAL			100.000000%	100.000000%	
SF 080668	T-27-N, R-4-W	639.20	<u>TRACT 4</u>			<u>4.537211%</u>
	Sec. 4: Lots 3, 4, S/2 NW/4, SW/4		Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.500000%	12.500000%	
	Sec. 9: W/2			41.250000%	41.250000%	
				41.250000%	41.250000%	
	TOTAL			5.000000%	5.000000%	
SF 080669	T-27-N, R-4-W	2080.84	<u>TRACT 5</u>			<u>14.770353%</u>
	Sec. 17: NW/4, E/2 SW/4, E/2		Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.500000%	12.500000%	
	Sec. 18: Lots 1, 2, E/2 NW/4, NE/4, S/2 SE/4			41.250000%	41.250000%	
	Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2			41.250000%	41.250000%	
	Sec. 20: All			5.000000%	5.000000%	
	TOTAL			100.000000%	100.000000%	

SCHEDULE XXVII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080670	T-27-N, R-4-W	2564.72	TRACT 6			18.205062%
	Sec. 29: All		Royalty;	12.500000%	12.500000%	
	Sec. 30: All		Working Interest;			
	Sec. 31: All		El Paso Natural Gas Co.;	41.250000%	41.250000%	
	Sec. 32: All		PWG Partnership	41.250000%	41.250000%	
			ORRI;	5.000000%	5.000000%	
			TOTAL	100.000000%	100.000000%	
SF 080671-A	T-27-N, R-4-W	320.00	TRACT 8			2.271445%
	Sec. 11: W/2		Royalty;	12.500000%	12.500000%	
			Working Interest;			
			El Paso Natural Gas Co.;	82.500000%	82.500000%	
			ORRI;	5.000000%	5.000000%	
			TOTAL	100.000000%	100.000000%	
SF 080672	T-27-N, R-4-W	960.00	TRACT 9			6.814334%
	Sec. 14: W/2		Royalty;	12.500000%	12.500000%	
	Sec. 23: All		Working Interest;			
			El Paso Natural Gas Co.;	41.250000%	41.250000%	
			PWG Partnership	41.250000%	41.250000%	
			ORRI;	5.000000%	5.000000%	
			TOTAL	100.000000%	100.000000%	
SF 080673	T-27-N, R-4-W	2241.52	TRACT 10			15.910903%
	Sec. 5: Lots 1, 2, S/2		Royalty;	12.500000%	12.500000%	
	NE/4, SE/4		Working Interest;			
	Sec. 6: Lots 1, 2, 3, 4,		El Paso Natural Gas Co.;	41.250000%	41.250000%	
	5, 6, 7, SE/4		PWG Partnership	41.250000%	41.250000%	
	NW/4, S/2 NE/4,	ORRI;	5.000000%	5.000000%		
	E/2 SW/4, SE/4					
	Sec. 7: Lots 1, 2, 3, 4,					
	E/2 W/2, E/2 (All)					
	Sec. 8: All		TOTAL	100.000000%	100.000000%	

UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

Form 21-71 (2-72)

SCHEDULE XXVII

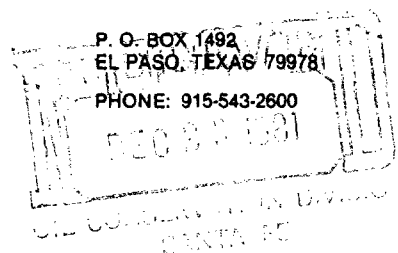
SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION		
			OWNERSHIP	PERCENTAGE				
SF 080674	T-27-N, R-4-W	1280.00				9.085779%		
	Sec. 15: E/2		Royalty;	12.50%	12.50%			
	Sec. 16: W/2		Working Interest:					
	Sec. 21: W/2		El Paso Natural Gas Co.;	41.25%	41.25%			
	Sec. 22: E/2		PWG Partnership	27.50%	27.50%			
			T. H. Harrington	2.75%	2.75%			
			Gerald E. Harrington	2.75%	2.75%			
			F. Eugene Harrington	2.75%	2.75%			
			James V. Harrington	2.75%	2.75%			
			Mary Jone Chappell	2.75%	2.75%			
			ORRI;	5.00%	5.00%			
	TOTAL		100.00%	100.00%				
SF 080673	T-27-N, R-4-W	1920.00				13.628668%		
	Sec. 27: All		Royalty;	12.50%	12.50%			
	Sec. 28: All		Working Interest:					
	Sec. 33: All		El Paso Natural Gas Co.;	41.25%	41.25%			
			PWG Partnership	27.50%	27.50%			
			T. H. Harrington	2.75%	2.75%			
			Gerald E. Harrington	2.75%	2.75%			
			F. Eugene Harrington	2.75%	2.75%			
			James V. Harrington	2.75%	2.75%			
			Mary Jone Chappell	2.75%	2.75%			
			ORRI;	5.00%	5.00%			
	TOTAL		100.00%	100.00%				
Fee	T-27-N, R-4-W	321.13				2.279466%		
	Sec. 17: W/2 SW/4		Royalty	12.50%	12.50%			
	Sec. 18: N/2 SE/4		Working Interest:					
	Sec. 19: Lots 2, 3, 4, SE/4 SW/4		El Paso Natural Gas Co.;	82.50%	82.50%			
			ORRI;	5.00%	5.00%			
			TOTAL		100.00%		100.00%	

SCHEDULE XXVII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 14</u>						
T-27-N, R-4-W Sec. 18: Lots 3, 4, E/2 SW/4		160.63	Royalty;	12.50%	12.50%	<u>1.140194%</u>
			Working Interest:			
			El Paso Natural Gas Co.;	85.00%	85.00%	
			ORRI;	2.50%	2.50%	
				100.00%	100.00%	

SCHEDULE XXVII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
R E C A P I T U L A T I O N						
Description of Lands in Participating Area:						
Township 27 North, Range 4 West, N.M.P.M.						
Sections 1, 4, 9, 11, 14, 16, 21: W/2						
Sections 5, 15, 22: E/2						
Sections 6, 7, 8, 17, 18, 19, 20, 23,						
26, 27, 28, 29, 30, 31, 32, 33, 36: All						
Total number of acres in Participating Area:					14,087.95	
Percent of Basic Royalty Committed:					100.000000%	
Percent of Working Interest Committed:					100.000000%	
Percent of ORRI Committed:					100.000000%	



December 18, 1981

Area Oil and Gas Supervisor
United States Geological Survey
Post Office Box 26124
Albuquerque, New Mexico 87125

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

554

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
TWENTY-FIFTH EXPANDED PARTICIPATING
AREA - Mesaverde Formation,
Effective August 1, 1980

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that two (2) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed on acreage committed to this unit. The wells have also created four (4) Intervening Drilling Blocks. The #101 (Mesaverde) well was drilled and completed on this acreage in 1980. The #132 (Mesaverde) well was drilled and completed on this acreage in 1980. The Participating Area for the Mesaverde Formation is expanded to include the following wells and acreage.

Twenty-fifth Expanded Participating Area - Effective 8-1-80

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
<u>T-27-N, R-4-W</u>		
Section 28: E/2	320.00	SJ 27-4 #101
Section 27: E/2	320.00	SJ 27-4 #132
Section 28: W/2	320.00	Intervening Drilling Block
Section 27: W/2	320.00	Intervening Drilling Block
Section 21: W/2	320.00	Intervening Drilling Block
Section 22: E/2	320.00	Intervening Drilling Block

Pertinent data on this well is as follows:

The San Juan 27-4 Unit #101 Well, located 2010' from the North line and 1690' from the East line of Section 28, Township 27 North, Range 4 West, N.M.P.M., was spudded on September 1, 1979, and completed on July 31, 1980, at a total depth of 8396'. The Mesaverde Formation at the intervals of 5662', 5668', 5682', 5728', 5750', 5756', 5772', 5778', 5784', 5790', 6137', 6142', 6152', 6160', 6164', 6187', 6194', 6205', 6210', 6221', 6226', 6247', 6263', 6278', 6341', 6351', 6381', 6437', 6444', and 6493' was treated with a sand-water fracturing process on April 4, 1980. The well was shut-in on May 11, 1980, and after being shut-in for eighty-one (81) days, the Mesaverde Formation was tested on July 31, 1980, using the choke nipple method with an absolute open flow of 8713 MCF, with an SIPC of 1118 psia and an SIPT of 1093 psia. The spacing unit for this well is described as the E/2 of Section 28, Township 27 North, Range 4 West, N.M.P.M., covering 320.00 acres.

The San Juan 27-4 Unit #132 Well, located 1150' from the North line and 1725' from the East line of Section 27, Township 27 North, Range 4 West, N.M.P.M., was spudded on October 15, 1980, and completed on July 14, 1980, at a total depth of 8549'. The Mesaverde Formation at the intervals of 5788', 5800', 5805', 5837', 5858', 5883', 5888', 5902', 5910', 5915', 5921', 6274', 6278', 6300', 6305', 6310', 6321', 6327', 6332', 6338', 6343', 6356', 6362', 6367', 6387', 6401', 6415', 6471', 6487', 6509', 6516', 6528', 6570', 6578', and 6638' was treated with a sand-water fracturing process on May 19, 1980. The well was shut-in on June 24, 1980, and after being shut-in for twelve (12) days, the Mesaverde Formation was tested on July 7, 1980, using the choke nipple method with an absolute open flow of 10187 MCF, with an SIPC of 1155 psia and an SIPT of 1150 psia. The spacing unit for this well is described as the E/2 of Section 27, Township 27 North, Range 4 West, N.M.P.M., covering 320.00 acres.

Attached is Schedule XXVI showing the Twenty-Fifth Expanded Participating Area for the Mesaverde Formation of the San Juan 27-4 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as the Schedule requires no official approval, no provision is made therefor, and in the absence of disapproval, the Twenty-Fifth Expanded Participating Area will become effective as of August 1, 1980.

Regulatory Agencies
Page Three

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

Very truly yours,

A handwritten signature in dark ink, appearing to read "James R. Permenter", with a stylized flourish at the end.

James R. Permenter
Director, Land Administration
Land Department

JRP:RJH:jec
Attachment
SJ 27-4, 4.1

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

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

Form 21-71 (2-72)

SCHEDULE XXVI

TWENTY-FIFTH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
NM 013297	T-27N, R-4-W	319.91	<u>TRACT 1</u>			
	Sec. 1: Lots 3, 4, S/2 NW/4, SW/4		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000% 83.750000% 3.750000% 100.000000%	12.500000% 83.750000% 3.750000% 100.000000%	2.378876%
	TOTAL					
			<u>TRACT 2</u>			
	T-27-N, R-4-W	1280.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000% 83.750000% 3.750000% 100.000000%	12.500000% 83.750000% 3.750000% 100.000000%	9.518179%
SF 079527	T-27-N, R-4-W	639.20	<u>TRACT 4</u>			
	Sec. 4: Lots 3, 4, S/2 NW/4, SW/4		Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.500000% 41.250000% 41.250000% 5.000000% 100.000000%	12.500000% 41.250000% 41.250000% 5.000000% 100.000000%	4.753141%
	Sec. 9: W/2					
	TOTAL					
			<u>TRACT 5</u>			
SF 080669	T-27-N, R-4-W	2080.84	Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.500000% 41.250000% 41.250000% 5.000000% 100.000000%	12.500000% 41.250000% 41.250000% 5.000000% 100.000000%	15.473288%
	Sec. 17: NW/4, E/2 SW/4, E/2					
	Sec. 18: Lots 1, 2, E/2 NW/4, NE/4, S/2 SE/4					
	Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2					
	Sec. 20: All		TOTAL	100.000000%	100.000000%	

UNIT AREA EXPANSION SCHEDULE -- SAN JUAN BASIN

Form 21-71 (2-72)

SCHEDULE XXVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080670	T-27-N, R-4-W	2564.72				
	Sec. 29: All		Royalty;	12.500000%	12.500000%	<u>19.781065%</u>
	Sec. 30: Lots 1,2,3,4, E/2 W/2, E/2 (All)		Working Interest; El Paso Natural Gas Co.;	41.250000%	41.250000%	
	Sec. 31: Lots 1,2,3,4, E/2 W/2, E/2 (All)		PWG Partnership ORRI;	41.250000%	41.250000%	
			TOTAL	5.000000%	5.000000%	
				100.000000%	100.000000%	
SF 080671-A	T-27-N-, R-4-W	320.00				
	Sec. 11: W/2		Royalty;	12.500000%	12.500000%	<u>2,379545%</u>
			Working Interest; El Paso Natural Gas Co.;	82.500000%	82.500000%	
			ORRI;	5.000000%	5.000000%	
			TOTAL	100.000000%	100.000000%	
SF 080672	T-27-N, R-4-W	960.00				
	Sec. 14: W/2		Royalty;	12.500000%	12.500000%	<u>7.138635%</u>
	Sec. 23: All		Working Interest; El Paso Natural Gas Co.;	41.250000%	41.250000%	
			PWG Partnership ORRI;	41.250000%	41.250000%	
			TOTAL	5.000000%	5.000000%	
				100.000000%	100.000000%	
SF 080673	T-27-N, R-4-W	2241.52				
	Sec. 5: Lots 1, 2, S/2 NE/4, SE/4		Royalty;	12.500000%	12.500000%	<u>16.668117</u>
	Sec. 6: Lots 1,2,3,4,5,6,7, SE/4 NW/4,S/2 NE/4, E/2 SW/4, SE/4		Working Interest; El Paso Natural Gas Company PWG Partnership ORRI;	41.250000%	41.250000%	
	Sec. 7: Lots 1,2,3,4, E/2 W/2, E/2 (All)			41.250000%	41.250000%	
	Sec. 8: All		TOTAL	5.000000%	5.000000%	
				100.000000%	100.000000%	

UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN

Form 21-71 (2-72)

SCHEDULE XXVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080674	T-27-N, R-4-W	1280.00				9.518179%
	Sec. 15: E/2		Royalty;	12.500000%	12.500000%	
	Sec. 16: W/2		Working Interest:	41.250000%	41.250000%	
	Sec. 21: W/2		El Paso Natural Gas Co.;	27.500000%	27.500000%	
	Sec. 22: E/2		PWG Partnership	2.750000%	2.750000%	
			T. H. Harrington	2.750000%	2.750000%	
			Gerald E. Harrington	2.750000%	2.750000%	
			F. Eugene Harrington	2.750000%	2.750000%	
			James V. Harrington	2.750000%	2.750000%	
			Mary Jone Chappell	5.000000%	5.000000%	
			ORRI;	100.000000%	100.000000%	
			TOTAL			14.277269%
SF 080673	T-27-N, R-4-W	1920.00				
	Sec. 27: All		Royalty;	12.500000%	12.500000%	
	Sec. 28: All		Working Interest:	41.250000%	41.250000%	
	Sec. 33: All		El Paso natural Gas Co.;	27.500000%	27.500000%	
			PWG Partnership	2.750000%	2.750000%	
			T. H. Harrington	2.750000%	2.750000%	
			Gerald E. Harrington	2.750000%	2.750000%	
			F. Eugene Harrington	2.750000%	2.750000%	
			James V. Harrington	2.750000%	2.750000%	
			Mary Jone Chappell	5.000000%	5.000000%	
			ORRI;	100.000000%	100.000000%	
			TOTAL			2.387947%
Fee	T-27-N, R-4-W	321.13				
	Sec. 17: W/2 SW/4		Royalty;	12.500000%	12.500000%	
	Sec. 18: N/2 SE/4		Working Interest:	82.500000%	82.500000%	
	Sec. 19: Lots 2, 3, 4, SE/4 SW/4		El Paso Natural Gas Co.;	5.000000%	5.000000%	
			ORRI;	100.000000%	100.000000%	
			TOTAL			

SCHEDULE XXVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 14</u>						
T-27-N, R-4-W		160.63				
Sec. 18: Lots 3, 4			Royalty;	12.500000%	12.500000%	
E/2 SW/4			Working Interest:			
			El Paso Natural Gas Co.;	85.000000%	85.500000%	
			ORRI;	2.500000%	2.500000%	
			TOTAL	<u>100.000000%</u>	<u>100.000000%</u>	
						<u>1.194457%</u>

SCHEDULE XXVI

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

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Sections 1, 4, 9, 11, 14, 16, 21: W/2
Sections 5, 15, 22: E/2
Sections 6, 7, 8, 17, 18, 19, 20, 23,
26, 27, 28, 29, 30, 31, 33, 36: All

Total number of acres in Participating Area:

13,447.95

Percent of Basic Royalty Committed:

100.000000%

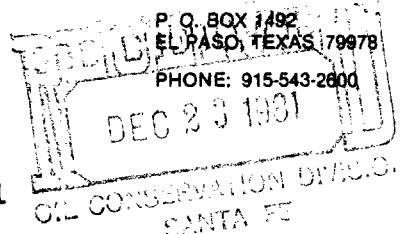
Percent of Working Interest Committed:

100.000000%

Percent of ORRI Committed:

100.000000%

El Paso
Exploration Company



December 18, 1981

Area Oil and Gas Supervisor
United States Geological Survey
Post Office Box 26124
Albuquerque, New Mexico 87125

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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
TWENTY-FOURTH EXPANDED PARTICIPATING
AREA - Mesaverde Formation,
Effective July 1, 1980

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that an additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed on acreage committed to this unit. The well has also created an Intervening Drilling Block. The #102 (Mesaverde) well was drilled and completed on this acreage in 1980. The Participating Area for the Mesaverde Formation is expanded to include the following well and acreage.

Twenty-Fourth Expanded Participating Area - Effective 7-1-80

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
T-27-N, R-4-W Section 33: E/2	320.00	SJ 27-4 #102

Pertinent data on this well is as follows:

The San Juan 27-4 Unit #102 Well, located 890' from the North line and 1745' from the East line of Section 33, Township 27 North, Range 4 West, N.M.P.M., was spudded on September 15, 1979, and completed on June 19, 1980, at a total depth of 8470'. The Mesaverde Formation at the intervals of 5732', 5738', 5770', 5780', 5797', 5805', 5834', 5842', 5912', 5996', 6058', 6065', 6218', 6224', 6230', 6236', 6242', 6248', 6754', 6260', 6266', 6280', 6287', 6308', 6316', 6331', 6345', 6415', 6439', 6455', 6466', 6500', 6507', 6524', 6546', and 6566' was treated with a sand-water fracturing process on May 6 and 7, 1980. The well was shut-in on May 14, 1980, and after being shut-in for twenty-eight (28) days, the Mesaverde Formation was tested on June 12, 1980, using the choke nipple method with an absolute open flow of 289 MCF, with an SIPC of 545 psia and an SIPT of 1078 psia. The spacing unit for this well is described as the E/2 of Section 33, Township 27 North, Range 4 West, N.M.P.M., covering 320.00 acres.

Attached is Schedule XXV showing the Twenty-Fourth Expanded Participating Area for the Mesaverde Formation of the San Juan 27-4 Unit Area. The Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as the Schedule requires no official approval, no provision is made therefor, and in the absence of disapproval, the Twenty-Fourth Expanded Participating Area will become effective as of July 1, 1980.

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

Very truly yours,



James R. Permenter
Director, Land Administration
Land Department

JRP:RJH:jec
Attachment
SJ 27-4, 4.2

cc: Mr. Antonio Martinez,
Executive Director
New Mexico Oil and Gas
Accounting Commission
P. O. Box 2308

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XXV
TWENTY-FOURTH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 013297	T-27-N, R-4-W	319.91				<u>2.775082%</u>
	Sec. 1: Lots 3, 4, S/2 NW/4, SW/4		Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 83.75% 3.75% <u>100.00%</u>	12.50% 83.75% 3.75% <u>100.00%</u>	
	TOTAL					
SF 079527	T-27-N, R-4-W	1280.00				<u>11.103449%</u>
	Sec. 26: All Sec. 36: All		Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 83.75% 3.75% <u>100.00%</u>	12.50% 83.75% 3.75% <u>100.00%</u>	
	TOTAL					
SF 080668	T-27-N, R-4-W	639.20				<u>5.544785%</u>
	Sec. 4: Lots 3, 4, S/2 NW/4, SW/4 Sec. 9: W/2		Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50% 41.25% 41.25% 5.00% <u>100.00%</u>	12.50% 41.25% 41.25% 5.00% <u>100.00%</u>	
	TOTAL					
SF 080669	T-27-N, R-4-W	2080.84				<u>18.050391%</u>
	Sec. 17: NW/4, E/2 SW/4, E/2 Sec. 18: Lots 1, 2, E/2 NW/4, NE/4, S/2 SE/4 Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2 Sec. 20: All		Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50% 41.25% 41.25% 5.00% <u>100.00%</u>	12.50% 41.25% 41.25% 5.00% <u>100.00%</u>	
	TOTAL					

SCHEDULE XXV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080670	T-27-N, R-4-W	1924.72	<u>TRACT 6</u>			<u>16.696117%</u>
	Sec. 29: All		Royalty;	12.50%	12.50%	
	Sec. 30: All		Working Interest;			
	Sec. 31: All		El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	41.25%	41.25%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
SF 080671-A	T-27-N, R-4-W	320.00	<u>TRACT 8</u>			<u>2.775862%</u>
	Sec. 11: W/2		Royalty;	12.50%	12.50%	
			Working Interest;			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
SF 080672	T-27-N, R-4-W	960.00	<u>TRACT 9</u>			<u>8.327586%</u>
	Sec. 14: W/2		Royalty;	12.50%	12.50%	
	Sec. 23: All		Working Interest;			
			El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	41.25%	41.25%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
SF 080673	T-27-N, R-4-W	2241.52	<u>TRACT 10</u>			<u>19.444220%</u>
	Sec. 5: Lots 1, 2, S/2		Royalty;	12.50%	12.50%	
	NE/4, SE/4		Working Interest;			
	Sec. 6: Lots 1, 2, 3, 4,		El Paso Natural Gas Co.;	41.25%	41.25%	
	5, 6, 7, SE/4		PWG Partnership	41.25%	41.25%	
	NW/4 S/2 NE/4,		ORRI;	5.00%	5.00%	
	E/2 SW/4, SE/4					
	Sec. 7: Lots 1, 2, 3, 4,					
	E/2 W/2, E/2 (All)					
	Sec. 8: All		TOTAL	100.00%	100.00%	

UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

Form 21-71 (2-72)

SCHEDULE XXV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080674	T-27-N, R-4-W Sec. 15: E/2 Sec. 16: W/2	640.00	TRACT 11			5.551724%
			Royalty;	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	27.50%	27.50%	
			T. H. Harrington	2.75%	2.75%	
			Gerald E. Harrington	2.75%	2.75%	
			F. Eugene Harrington	2.75%	2.75%	
			James V. Harrington	2.75%	2.75%	
			Mary Jone Chappell	5.00%	5.00%	
	TOTAL	100.00%	100.00%			
SF 080673	T-27-N, R-4-W Sec. 33: All	640.00	TRACT 12			5.551724%
			Royalty;	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	27.50%	27.50%	
			T. H. Harrington	2.75%	2.75%	
			Gerald E. Harrington	2.75%	2.75%	
			F. Eugene Harrington	2.75%	2.75%	
			James V. Harrington	2.75%	2.75%	
			Mary Jone Chappell	5.00%	5.00%	
	TOTAL	100.00%	100.00%			
Fee	T-27-N, R-4-W Sec. 17: W/2 SW/4 Sec. 18: N/2 SE/4 Sec. 19: Lots 2, 3, 4, SE/4 SW/4	321.13	TRACT 13			2.785664%
			Royalty	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
	TOTAL	100.00%	100.00%			

SCHEDULE XXV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 14</u>						
T-27-N, R-4-W		160.63				
Sec. 18: Lots 3, 4, E/2 SW/4			Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	
				85.00%	85.00%	
				2.50%	2.50%	
				<u>100.00%</u>	<u>100.00%</u>	
						<u>1.393396%</u>

SCHEDULE XXV

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

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Sections 1, 4, 9, 11, 14, 16: W/2
Sections 5, 15: E/2
Sections 6, 7, 8, 17, 18, 19, 20,
23, 26, 29, 30, 31, 33, 36: All

Total number of acres in Participating Area: 11,527.95

Percent of Basic Royalty Committed: 100.00%

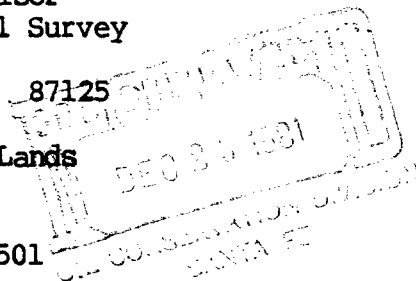
Percent of Working Interest Committed: 100.00%

Percent of ORRI Committed: 100.00%

December 18, 1981

Area Oil and Gas Supervisor
United States Geological Survey
Post Office Box 26124
Albuquerque, New Mexico 87125

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



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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
NINETEENTH EXPANDED PARTICIPATING
AREA - Pictured Cliffs Formation
Effective December 1, 1980

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that two (2) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation have been completed upon acreage committed to the Unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include the wells that follow:

The San Juan 27-4 Unit #15A Well, located 1520' from the South line and 790' from the East line of Section 6, Township 27 North, Range 4 West, N.M.P.M., was spudded on September 3, 1980, and completed on November 25, 1980, at a total depth of 6486'. The Pictured Cliffs Formation at the intervals of 3873', 3879', 3886', 3892', 3907', 3913', 3935', 3941' and 3947', was treated with a sand-water fracturing process on October 23, 1980. The well was shut-in on October 28, 1980, and after being shut-in for twenty-eight (28) days, the Pictured Cliffs Formation was tested on November 25, 1980, using the choke nipple method with an absolute open flow of 308 MCF, with an SIPC of 1070 psia and an SIPT of 1070 psia. The spacing unit for this well is described as the E/2 of Section 6, Township 27 North, Range 4 West, N.M.P.M., covering 320.00 acres.

Regulatory Agencies
Page Two

The San Juan 27-4 Unit #134 Well, located 1190' from the South line and 1850' from the West line of Section 9, Township 27 North, Range 4 West, N.M.P.M., was spudded on September 10, 1979, and completed on November 10, 1980, at a total depth of 6244'. The Pictured Cliffs Formation at the intervals of 3608', 3615', 3622', 3637' 3644', 3650', 3062', 3668', 3674', and 3680' was treated with a sand-water fracturing process on October 5, 1980. The well was shut-in on September 8, 1980, and after being shut-in for sixty-two (62) days, the Pictured Cliffs Formation was tested on November 10, 1980, using the choke nipple method with an absolute open flow of 3372 MCF, with an SIPC of 1097 psia and an SIPT of 1106 psia. The spacing unit for this well is described as the W/2 of Section 9, Township 27 North, Range 4 West, N.M.P.M., covering 320.00 acres.

In addition to the acreage admitted by the above described wells, the completion of the San Juan 27-4 Unit #134 well creates one (1) intervening drilling block described as the W/2 of Section 5, Township 27 North, Range 4 West, containing 320.00 acres. Under the terms of the Unit Agreement, this intervening drilling block is also admitted to the Pictured Cliffs Participating Area, effective December 1, 1980 and a well must be commenced on this intervening drilling block by December 1, 1981.

Attached is Schedule XX showing the Nineteenth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 27-4 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, the Nineteenth Expanded Participating Area will become effective as of December 1, 1980.

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

Very truly yours,



James R. Permenter
Director, Land Administration
Land Department

JRP:RJH:jec
Attachment
SJ 27-4, 4.1

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

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

Form 21-71 (2-72)

SCHEDULE XX
NINETEENTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 079527	T-27-N, R-4-W	1280.00	<u>TRACT 2</u>			<u>9.192160%</u>
	Sec. 26: All		Royalty;	12.50%	12.50%	
	Sec. 36: All		Working Interest;			
			El Paso Natural Gas Co.;	83.75%	83.75%	
			ORRI;	3.75%	3.75%	
	TOTAL			100.00%	100.00%	
SF 080668	T-27-N, R-4-W	320.00	<u>TRACT 4</u>			<u>2.298040%</u>
	Sec. 9: W/2		Royalty;	12.50%	12.50%	
			Working Interest;			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
	TOTAL			100.00%	100.00%	
SF 080669	T-27-N, R-4-W	1920.35	<u>TRACT 5</u>			<u>13.790753%</u>
	Sec. 17: E/2, NW/4, E/2 SW/4		Royalty;	12.50%	12.50%	
	Sec. 18: NE/4, S/2 SE/4		Working Interest;			
	Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2		El Paso Natural Gas Co.;	82.50%	82.50%	
	Sec. 20: All		ORRI;	5.00%	5.00%	
	TOTAL			100.00%	100.00%	
SF 080670	T-27-N, R-4-W	2564.72	<u>TRACT 6</u>			<u>18.418216%</u>
	Sec. 29: All		Royalty;	12.50%	12.50%	
	Sec. 30: Lots 1,2,3,4, E/2 W/2, E/2 (All)		Working Interest;			
	Sec. 31: Lots 1,2,3,4, E/2 W/2, E/2 (All)		El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	41.25%	41.25%	
	TOTAL			5.00%	5.00%	
				100.00%	100.00%	

UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

Form 21-71 (2-72)

SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080672	T-27-N, R-4-W	1280.00	<u>TRACT 9</u>			<u>9.192160%</u>
	Sec. 23: All		Royalty;	12.500000%	12.500000%	
	Sec. 24: All		Working Interest;			
			El Paso Natural Gas Co.;	41.250000%	41.250000%	
			PWG Partnership	41.250000%	41.250000%	
	ORRI;			5.000000%	5.000000%	
	TOTAL			100.000000%	100.000000%	
SF 080673	T-27-N, R-4-W	1918.71	<u>TRACT 10</u>			<u>13.778976%</u>
	Sec. 5: Lots 1, 2, S/2		Royalty;	12.500000%	12.500000%	
			Working Interest;			
	Sec. 6: E/2		El Paso Natural Gas Co.;	41.250000%	41.250000%	
	Sec. 7: E/2		PWG Partnership	41.250000%	41.250000%	
	Sec. 8: All		ORRI;	5.000000%	5.000000%	
	TOTAL			100.000000%	100.000000%	
SF 080674	T-27-N, R-4-W	1920.00	<u>TRACT 11</u>			<u>13.788240%</u>
	Sec. 16: All		Royalty;	12.500000%	12.500000%	
	Sec. 21: All		Working Interest;			
	Sec. 22: All		El Paso Natural Gas Co.;	41.250000%	41.250000%	
			PWG Partnership	27.500000%	27.500000%	
			T. H. Harrington, Title Agent	13.750000%	13.750000%	
			ORRI;	5.000000%	5.000000%	
	TOTAL			100.000000%	100.000000%	
SF 080675	T-27-N, R-4-W	2400.00	<u>TRACT 12</u>			<u>17.235300%</u>
	Sec. 27: All		Royalty;	12.500000%	12.500000%	
	Sec. 28: All		Working Interest;			
	Sec. 33: All		El Paso Natural Gas Co.;	41.250000%	41.250000%	
	Sec. 34: W/2, NE/4		PWG Partnership	41.250000%	41.250000%	
			ORRI;	5.000000%	5.000000%	
	TOTAL			100.000000%	100.000000%	

SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 13						
Fee	T-27-N, R-4-W	321.13	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	<u>2.306155%</u>
	Sec. 17: W/2 SW/4					
	Sec. 18: N/2 SE/4			82.50%	82.50%	
	Sec. 19: Lots 2, 3, 4, SE/4 SW/4			5.00%	5.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	

SCHEDULE XX

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

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Section 34: W/2
Sections 5, 8, 16, 17, 19, 20, 21, 22, 23, 24,
26, 27, 28, 29, 30, 31, 32, 33, 36: All
Sections 7, 18: E/2
Section 34: NE/4

Total number of acres in Participating Area:

13,924.91

Percent of Basic Royalty Committed:

100.00%

Percent of Working Interest Committed:

100.00%

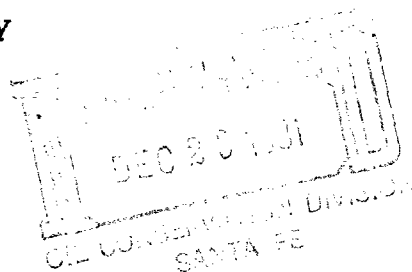
Percent of ORRI Committed:

100.00%

December 18, 1981

Area Oil and Gas Supervisor
United States Geological Survey
Post Office Box 26124
Albuquerque, New Mexico 87125

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



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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
EIGHTEENTH EXPANDED PARTICIPATING
AREA - Pictured Cliffs Formation
Effective November 1, 1980

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the Unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include the well that follows:

The San Juan 27-4 Unit #138 Well, located 1120' from the South line and 1800' from the East line of Section 16, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 27, 1980, and completed on October 21, 1980, at a total depth of 6683'. The Pictured Cliffs Formation at the intervals of 4058'-4076', 4076'-4094, and 4108'-4132', was treated with a sand-water fracturing process on September 20, 1980. The well was shut-in on September 24, 1980, and after being shut-in for twenty-six (26) days, the Pictured Cliffs Formation was tested on October 21, 1980, using the choke nipple method with an absolute open flow of 6383 MCF, with an SIPC of 1047 psia and an SIPT of 1055 psia. The spacing unit for this well is described as the E/2 of Section 16, Township 27 North, Range 4 West, N.M.P.M., covering 320.00 acres.

Regulatory Agencies
Page Two

Attached is Schedule XIX showing the Eighteenth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 27-4 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, the Eighteenth Expanded Participating Area will become effective as of November 1, 1980.

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

Very truly yours,



James R. Permenter
Director, Land Administration
Land Department

JRP:RJH:jec
Attachment
SJ 27-4, 4.1

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

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XIX
EIGHTEENTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 079527	T-27-N, R-4-W Sec. 26: All Sec. 36: All	1280.00	<u>TRACT 2</u>			<u>9.872331%</u>
	Royalty:			12.50%		
	Working Interest:			83.75%		
	El Paso Natural Gas Co.:			3.75%		
	ORRI:			<u>100.00%</u>		
	TOTAL				<u>100.00%</u>	
						<u>14.811196%</u>
SF 080669	T-27-N, R-4-W Sec. 17: E/2, NW/4, E/2 SW/4 Sec. 18: NE/4, S/2 SE/4 Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2 Sec. 20: All	1920.35	<u>TRACT 5</u>			<u>14.811196%</u>
	Royalty:			12.50%		
	Working Interest:			82.50%		
	El Paso Natural Gas Co.:			5.00%		
	ORRI:			<u>100.00%</u>		
	TOTAL				<u>100.00%</u>	
						<u>19.781065%</u>
SF 080670	T-27-N, R-4-W Sec. 29: All Sec. 30: Lots 1,2,3,4, E/2 W/2, E/2 (All) Sec. 31: Lots 1,2,3,4, E/2 W/2, E/2 (All) Sec. 32: All	2564.72	<u>TRACT 6</u>			<u>19.781065%</u>
	Royalty:			12.50%		
	Working Interest:			41.25%		
	El Paso Natural Gas Co.:			41.25%		
	PMG Partnership			5.00%		
	ORRI:			<u>100.00%</u>		
	TOTAL				<u>100.00%</u>	
						<u>9.872331%</u>
SF 080672	T-27-N, R-4-W Sec. 23: All Sec. 24: All	1280.00	<u>TRACT 9</u>			<u>9.872331%</u>
	Royalty:			12.50%		
	Working Interest:			41.25%		
	El Paso Natural Gas Co.:			41.25%		
	PMG Partnership			5.00%		
	ORRI:			<u>100.00%</u>		
	TOTAL				<u>100.00%</u>	
						<u>9.872331%</u>

SCHEDULE XIX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080673	T-27-N, R-4-W Sec. 5: Lots 1, 2, S/2 NE/4 SE/4 Sec. 7: E/2 Sec. 8: All	1279.33	Royalty; Working Interest: El Paso Natural Gas Co.; PMG Partnership ORRI;	12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25% 41.25% 5.00% 100.00%	<u>9.867163%</u>
			TOTAL	100.00%	100.00%	
			TRACT 10			
SF 080674	T-27-N, R-4-W Sec. 16: All Sec. 21: All Sec. 22: All	1920.00	Royalty; Working Interest: El Paso Natural Gas Co.; PMG Partnership T. H. Harrington, Title Agent ORRI;	12.50% 41.25% 27.50% 13.75% 5.00% 100.00%	12.50% 41.25% 27.50% 13.75% 5.00% 100.00%	<u>14.808496%</u>
			TOTAL	100.00%	100.00%	
			TRACT 11			
SF 080675	T-27-N, R-4-W Sec. 27: All Sec. 28: All Sec. 33: All Sec. 34: W/2, NE/4	2400.00	Royalty; Working Interest: El Paso Natural Gas Co.; PMG Partnership ORRI;	12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25% 41.25% 5.00% 100.00%	<u>18.510620%</u>
			TOTAL	100.00%	100.00%	
			TRACT 12			
Fee	T-27-N, R-4-W Sec. 17: W/2 SW/4 Sec. 18: N/2 SE/4 Sec. 19: Lots 2, 3, 4, SE/4 SW/4	321.13	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	<u>2.476798%</u>
			TOTAL	100.00%	100.00%	
			TRACT 13			

SCHEDULE XIX

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

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Section 34: W/2
Section 8, 16, 17, 19, 20, 21, 22, 23, 24,
26, 27, 28, 29, 30, 31, 32, 33, 36: All
Section 5, 7, 18: E/2
Section 34: NE/4

Total number of acres in Participating Area:	12,965.53
Percent of Basic Royalty Committed:	100.00%
Percent of Working Interest Committed:	100.00%
Percent of ORRI Committed:	100.00%

South Central Region
P. O. Box 26124
Albuquerque, New Mexico 87125



JUL 30 1981

554

El Paso Exploration Company
Attention: Robert J. Hopkins
P. O. Box 1492
El Paso, Texas 79978

Gentlemen:

An approved copy of your amended 1981 plan of development for the San Juan 27-4 unit area, Rio Arriba County, New Mexico is enclosed. Such plan, proposing the drilling of six additional Mesaverde wells, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD.) JAMES W. SHELTON

FOR Gene F. Daniel
Deputy Conservation Manager
Oil and Gas

Enclosure

cc:
NMOC, Santa Fe
DS, Farmington (w/encl)



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

July 1, 1981

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

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

Attention: D. N. Canfield

Re: Case No. 554
San Juan 27-4 Unit
Amendment to 1981
Drilling Program

Gentlemen:

We hereby approve the Amendment to the 1981 Drilling Program for the San Juan 27-4 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

One approved copy of the Amendment is returned herewith.

Yours very truly,

JOE D. RAMEY
Director

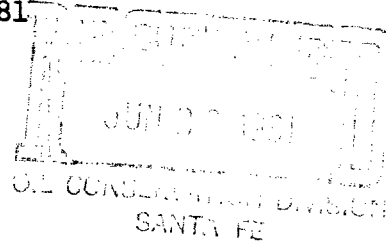
JDR/EP/fd
enc.

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

654
El Paso NATURAL GAS
COMPANY

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

June 19, 1981



Area Oil and Gas Supervisor
United States Geological Survey
Post Office Box 26124
Albuquerque, New Mexico 87125

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

OK
E/P
6/28/81

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
Amendment to 1981 DRILLING PROGRAM

Gentlemen:

The 1981 Drilling Program for the San Juan 27-4 Unit which was submitted to you by our letter has been approved.

El Paso Natural Gas Company, as Unit Operator, proposes that said Drilling Program be amended by the addition of the following wells:

<u>WELL NAME</u>	<u>LOCATION</u>	<u>FORMATION</u>
San Juan 27-4 Unit #143	NE/4 Section 22, T-27-N, R-4-W	Mesaverde
San Juan 27-4 Unit #144	SW/4 Section 28, T-27-N, R-4-W	Mesaverde
San Juan 27-4 Unit #142	NE/4 Section 21, T-27-N, R-4-W	Mesaverde
San Juan 27-4 Unit #141	SW/4 Section 15, T-27-N, R-4-W	Mesaverde
San Juan 27-4 Unit #139	SE/4 Section 9, T-27-N, R-4-W	Mesaverde
San Juan 27-4 Unit #140	SE/4 Section 10, T-27-N, R-4-W	Mesaverde

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

If this amendment to the 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.

Area Oil and Gas Supervisor
Oil Conservation Division
Page Two

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

A handwritten signature in black ink, appearing to read "D. N. Canfield".

D. N. Canfield
Attorney-in-Fact

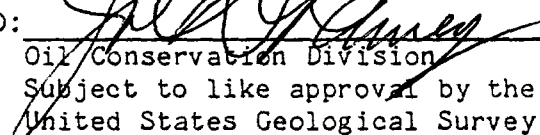
Handwritten initials "RJH" and a signature, likely of the Area Oil and Gas Supervisor.

DNC/RJH/en
Attachments
San Juan 27-4 Unit, 3.0

cc: Commissioner of Public Lands
(information only)

APPROVED: _____
Area Oil & Gas Supervisor
United States Geological Survey
Subject to like approval by the
Oil Conservation Division

DATE: _____

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

DATE: 7/1/81

The foregoing approvals are for the Revised 1981 Drilling Program for the San Juan 27-4 Unit, #14-08-001-1054, Rio Arriba County, New Mexico.

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero



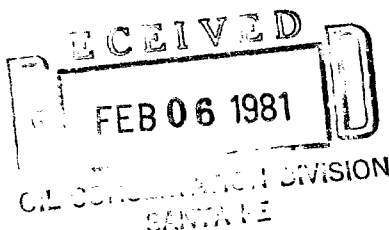
United States Department of the Interior

GEOLOGICAL SURVEY
South Central Region
P. O. Box 26124
Albuquerque, New Mexico 87125

03 FEB 1981

552-554

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



Gentlemen:

Three approved copies of your 1981 plan of development for the San Juan 27-4 unit area, Rio Arriba County, New Mexico are enclosed. Such plan, proposing the drilling of two Dakota wells, two dual Pictured Cliffs/Mesaverde wells and one Mesaverde well, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

ORIGINAL SIGNED BY:

Gene F. Daniel
Deputy Conservation Manager
Oil and Gas

Enclosures

cc:
NMOCD, Santa Fe

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

December 8, 1980

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

Attention: D. N. Canfield

Re: Case No. 554
San Juan 27-4 Unit
1981 Drilling Program

Gentlemen:

We hereby approve the 1981 Drilling Program for the San Juan 27-4 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

One approved copy of the Drilling Program is returned herewith.

Yours very truly,

JOE D. RAMEY
Director

JDR/EP/fd
enc.

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

C
O
P
Y

El Paso NATURAL GAS
COMPANY

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

November 7, 1980

Area Oil and Gas Supervisor
United States Geological Survey
Post Office Box 26124
Albuquerque, New Mexico 87125

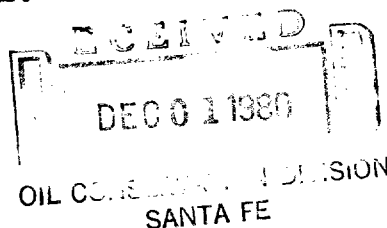
Oil Conservation Division
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
1981 Drilling Program

Gentlemen:

By letter dated January 7, 1980, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned unit for the calendar year 1980 providing for the drilling of one (1) Pictured Cliffs well (#134), five (5) Mesaverde wells (#29A, #35A, #36A, #108, #137) and five (5) dual Pictured Cliffs/Mesaverde wells (#15A, #99A, #124A, #125A, #138). Wells #15A, #29A, #35A, #36A, #99A, #108, #125A, #134, #137, #138 have been completed. Wells #124A and #125A are currently being drilled.

Wells #29, #35A and #36A are within the current Mesaverde Participating Area. Wells #99A, #124A and #125A are within the current Pictured Cliffs and Mesaverde Participating Areas. Well #15A is within the current Mesaverde Participating Area but outside the Pictured Cliffs Participating Area as is the Pictured Cliffs Formation Well #134 and both are currently being evaluated to determine whether they are capable of producing unitized substances so as to cause an expansion of the Pictured Cliffs Participating Area. Well #138 is outside both the Pictured Cliffs and Mesaverde Participating Areas and Wells #108 and #137 are outside the Mesaverde Participating Area and these wells also are being evaluated to determine if they will cause an expansion of their respective Participating Areas.



As of this date, the total number of wells in the San Juan 27-4 Unit is as follows:

Pictured Cliffs	42
Pictured Cliffs, Being Evaluated	1
Mesaverde	19
Mesaverde, Being Evaluated	3
Dakota	31
Dakota, Non-Commercial	1
Dakota/Gallup (OWWO)	1
Dakota/Gallup (OWWO), Being Evaluated	1
Pictured Cliffs/Mesaverde	18
Pictured Cliffs/Mesaverde, Being Evaluated	3
Pictured Cliffs/Mesaverde, Being Drilled	2
Mesaverde/Dakota	1
Mesaverde/Dakota, Being Evaluated	4
Mesaverde/Dakota, Plugged Back and Completed in the Mesaverde Only	2
Gallup/Dakota, Being Evaluated	1
Mesaverde, Non-Commercial Plugged and Abandoned, Dakota	1
Plugged and Abandoned, Mesaverde/Dakota	1
Plugged and Abandoned, Mesaverde, Recompletion Dakota	1
	<u>133</u>

Pursuant to Section 10 of the San Juan 27-4 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby submits a Drilling Program providing for the drilling of the following wells during the calendar year of 1981.

<u>Well</u>	<u>Drilling Block</u>	<u>Formation</u>
#14E	W/2 Sec. 18, T-27-N, R-4-W	Dakota Infill
#24A	PC: NW/4 MV: W/2 Sec. 6, T-27-N, R-4-W	Pictured Cliffs Mesaverde Infill
#45E	E/2 Sec. 19, T-27-N, R-4-W	Dakota Infill
#123A	PC: SE/4 MV: E/2 Sec. 7, T-27-N, R-4-W	Pictured Cliffs Mesaverde Infill
#135A	E/2 Sec. 36, T-27-N, R-4-W	Mesaverde Infill

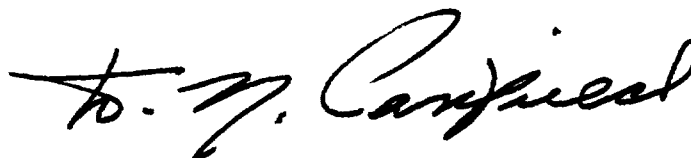
All working interest owners have been contacted, and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

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

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

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

Very truly yours,

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 *gx*
Attorney-in-Fact

DNC/JL/en
Attachments
San Juan 27-4, 3.0

cc: Commissioner of Public Lands
(Information Only)

APPROVED: _____
Area Oil & Gas Supervisor
United States Geological Survey
Subject to like approval by the
Oil Conservation Division

DATE: _____

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

DATE: 12/8/80

The foregoing approvals are for the 1981 Drilling Program for the
San Juan 27-4 Unit #14-08-001-1054, Rio Arriba County, New Mexico.

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

El Paso NATURAL GAS
COMPANY

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

September 15, 1980

Area Oil and Gas Supervisor
United States Geological Survey
P. O. Box 26124
Albuquerque, New Mexico 87125

554

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
1980 Drilling Program

Gentlemen:

The 1980 Drilling Program for the referenced unit was approved by the regulatory agencies on the following dates:

United States Geological Survey April 18, 1980

Oil Conservation Division February 20, 1980

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

Very truly yours,

Jim Leon

Jim Leon
Landman
Land Department

JL/en
SJ 27-4 Unit, 3.0

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 20, 1980

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

Attention: D. N. Canfield

Re: Case No. 554
San Juan 27-4 Unit
1980 Drilling Program

Gentlemen:

We hereby approve the 1980 Drilling Program for the San Juan 27-4 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Three approved copies of the Drilling Program are returned herewith.

Yours very truly,

JOE D. RAMEY
Director

JDR/EP/fd
enc.

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

C
O
P
Y



United States Department of the Interior

GEOLOGICAL SURVEY

RECEIVED
1980 APR 18
SOUTH CENTRAL REGION
P. O. Box 26124
Albuquerque, New Mexico 87125
OIL CO. & NAT. DIVISION
SANTA FE

APR 18 1980

554

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

Gentlemen:

Three approved copies of your 1980 plan of development for the San Juan 27-4 unit area, Rio Arriba County, New Mexico, are enclosed. Such plan, proposing the drilling of eleven wells to be completed in the Pictured Cliffs and/or the Mesaverde formations and any other wells necessary to prevent drainage, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(ORIG. SGD.) JACK WILLOCK

Jack Willock
Acting Deputy Conservation Manager
Oil and Gas

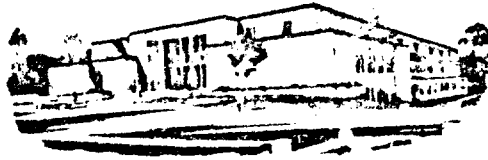
Enclosures 3

cc:
NMOC, Santa Fe



ONE HUNDRED YEARS OF EARTH SCIENCE IN THE PUBLIC SERVICE

State of New Mexico



Commissioner of Public Lands

January 14, 1980

ALEX J. ARMIJO
COMMISSIONER

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

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

554

Re: San Juan 27-4 Unit
Rio Arriba County, New Mexico
1980 DRILLING PROGRAM

ATTENTION: Mr. D. N. Canfield

Gentlemen:

We are in receipt of two copies of your 1980 Drilling Program for the San Juan 27-4 Unit, Rio Arriba County, New Mexico.

Since this unit contains no State of New Mexico Lands, we are retaining one copy for record purposes and enclosed is one copy for your files reflecting the date it was received in this office.

Very truly yours,

ALEX J. ARMIJO
COMMISSIONER OF PUBLIC LANDS

BY:
RAY D. GRAHAM, Director
Oil and Gas Division
AC 505-827-2748

AJA/RDG/s
encl.
cc:

OCD-Santa Fe, New Mexico
USGS-Roswell, New Mexico
USGS-Albuquerque, New Mexico

El Paso NATURAL GAS
COMPANY

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

January 7, 1980

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

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

554
OK for approval
2/19/80

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
1980 Drilling Program

Gentlemen:

By letter dated February 2, 1979, El Paso Natural Gas Company, as Unit Operator, filed a Drilling Program for the captioned Unit for the calendar year 1979 providing for the drilling of two (2) Mesaverde wells (#134, #20A), one (1) dual Pictured Cliffs/Mesaverde well (#13A) and four (4) dual Mesaverde/Dakota wells (#132, #133, #101, #102). Wells #134 and #13A have been completed. The remaining wells have been drilled and logged and are awaiting completion.

Due to United States Geological Survey demand, four additional wells were added to the 1979 Drilling Program (#4A, #37, #120, #136). The #4A Well is awaiting completion. Wells #120 and #136 are currently drilling. Well #37 is currently producing from the Dakota formation. The Gallup formation is scheduled for completion and the production from both formations will be commingled pursuant to New Mexico Oil Conservation Division Order dated October 18, 1979.

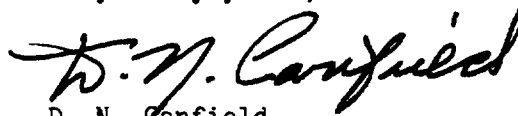
As of this date, the total number of wells in the San Juan 27-4 Unit is as follows:

Pictured Cliffs	43
Mesaverde	15
Dakota	31
Dakota, Non-commercial	1
Dakota/Gallup (OWWO)	1
Pictured Cliffs/Mesaverde	16
Mesaverde/Dakota	1
Mesaverde/Dakota, Plugged back & completed in Mesaverde only	2
Mesaverde, Non-commercial	1
Plugged & Abandoned, Dakota	1
Plugged & Abandoned, Mesaverde/Dakota	1
Plugged & Abandoned, Mesaverde,	
Recompletion Dakota	1
Pending Completion	8
	122

Regional Oil and Gas Supervisor
Oil Conservation Division
Page Three

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

Very truly yours,


D. N. Ganfield
Attorney-in-Fact *Den*

DNC/DCH/sfg
Attachments
San Juan 27-4, 3.0

cc: Commissioner of Public Lands
(Information Only)

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership


Mr. M. A. Romero

APPROVED: _____

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

DATE: _____

APPROVED: _____


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

DATE: 2/21/80

The foregoing approvals are for the 1980 Drilling Program for the
San Juan 27-4 Unit #14-08-001-1054, Rio Arriba County, New Mexico.

Pursuant to Section 10 of the San Juan 27-4 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby submits a Drilling Program providing for the drilling of the following wells during the calendar year of 1980.

<u>Well</u>	<u>Drilling Block</u>	<u>Formation</u>
#15A	PC: SE/4 MV: E/2 Sec. 6, T-27-N, R-4-W	Pictured Cliffs Mesaverde Infill
#124A	PC: NW/4 MV: W/2 Sec. 8, T-27-N, R-4-W	Pictured Cliffs Mesaverde Infill
#35A	W/2 Sec. 26, T-27-N, R-4-W	Mesaverde Infill
#29A	E/2 Sec. 26, T-27-N, R-4-W	Mesaverde Infill
#108	E/2 Sec. 32, T-27-N, R-4-W	Mesaverde
Com #137	E/2 Sec. 34, T-27-N, R-4-W	Mesaverde
#36A	W/2 Sec. 36, T-27-N, R-4-W	Mesaverde Infill
#125A	PC: SE/4 MV: E/2 Sec. 8, T-27-N, R-4-W	Pictured Cliffs Mesaverde Infill
#99A	PC: NW/4 MV: W/2 Sec. 16, T-27-N, R-4-W	Pictured Cliffs Mesaverde Infill
#138	PC: SE/4 MV: E/2 Sec. 16, T-27-N, R-4-W	Pictured Cliffs Mesaverde
#134	PC: SW/4 Sec. 9, T-27-N, R-4-W	Pictured Cliffs

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

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

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

El Paso NATURAL GAS
COMPANY

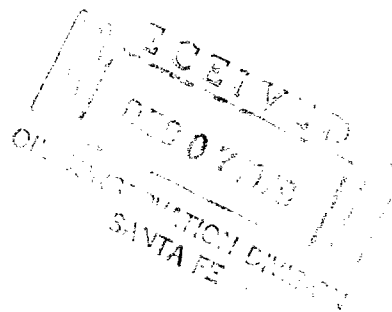
P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

December 5, 1979

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 Division
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501



Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
Twenty-Third Expanded Participating
Area, Mesaverde Formation,
Effective September 1, 1978

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date indicated below that an additional well capable of producing unitized substances in paying quantities from the Mesaverde formation has been completed on acreage committed to this unit. The well has also created an Intervening Drilling Block. The #134 (Mesaverde) well was drilled and completed on this acreage in 1979. The Participating Area for the Mesaverde Formation is expanded to include the following well and acreage.

Twenty-Third Expanded Participating Area - Effective 9-1-78

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
<u>T-27-N, R-4-W</u>		
Section 16: W/2	320.00	SJ 27-4 #99
Section 9: W/2	320.00	SJ 27-4 #134 (IDB)

Pertinent data on this well is as follows:

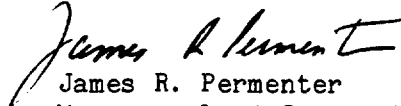
The San Juan 27-4 Unit #99 Well, located 915' from the South line and 1180' from the West line of Section 16, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 28, 1978, and completed on August 28, 1978, at a total

depth of 6761'. The Mesaverde Formation at the intervals of 6321, 6327, 6332, 6337, 6342, 6350, 6354, 6367, 6374, 6386, 6393, 6405, 6412, 6434, 6440, 6453, 6485, 6537, 6550, 6580, 6638, 6662 and 6684 was treated with a sand-water fracturing process on August 16, 1978. The well was shut-in on August 19, 1978, and after being shut-in for nine (9) days, the Mesaverde Formation was tested on August 28, 1978, using the Pitot tube method with an after frac guage of 2047 MCF/D, with an SIPC of 1146 psia and and SIPT of 690 psia. The spacing unit for this well is described as the W/2 of Section 16, Township 27 North, Range 4 West, N.M.P.M., containing 320.00 acres.

Attached is Schedule XXIV showing the Twenty-Third Expanded Participating Area for the Mesaverde formation of the San Juan 27-4 Unit Area. The Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as the Schedule requires no official approval, no provision is made therfor, and in the absence of disapproval, the Twenty-Third Expanded Participating Area will become effective as of September 1, 1978.

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

Very truly yours,


James R. Permenter
Manager, Land Contracts
and Titles
Land Department
Exploration

JRP:DCH:sfg
Enclosure
SJ 27-4 Unit, 4.2

cc: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XXIV
 TWENTY-THIRD EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
 SAN JUAN 27-4 UNIT AREA

WELL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACT PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 1						
WM 013297	T-27-N, R-1-W Sec. 1: Lots 3, 4, S/2 NW/4, SW/4	319.91	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	2.854313%
			TOTAL	83.75% 3.75% 100.00%		
TRACT 2						
SF 079527	T-27-N, R-1-W Sec. 26: All Sec. 36: All	1280.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	11.420465%
			TOTAL	83.75% 3.75% 100.00%		
TRACT 4						
SF 080668	T-27-N, R-1-W Sec. 4: Lots 3, 4, S/2 NW/4, SW/4 Sec. 9: W/2	639.20	Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50%	12.50%	5.703095%
			TOTAL	41.25% 41.25% 5.00% 100.00%		
TRACT 5						
SF 080669	T-27-N, R-1-W Sec. 17: NW/4, E/2 SW/4, E/2 Sec. 18: Lots 1, 2, E/2 NW/4 NE/4, S/2 SE/4 Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2 Sec. 20: All	2080.84	Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50%	12.50%	18.565750%
			TOTAL	41.25% 41.25% 5.00% 100.00%		

Effective September 1, 1978

PAGE 1

SCHEDULE XIV

TRIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATIO
			OWNERSHIP	PERCENTAGE		
SF 080670	T-27-N, R-4-W	1924.72	TRACT 6 Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50%	17.172810%	
	Sec. 29: All			41.25%		
	Sec. 30: All			41.25%		
	Sec. 31: All			5.00%		
				100.00%		
SF 080671-A	T-27-N, R-4-W	520.00	TRACT 8 Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%	2.855116%	
	Sec. 11: W/2			82.50%		
				5.00%		
				100.00%		
				TOTAL		
SF 080672	T-27-N, R-4-W	960.00	TRACT 9 Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50%	8.565349%	
	Sec. 14: W/2			41.25%		
	Sec. 23: All			41.25%		
				5.00%		
				100.00%		
SF 080673	T-27-N, R-4-W	2241.52	TRACT 10 Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50%	19.999376%	
	Sec. 6: Lots 1,2,3,4,5, 6,7, SE/4 NW/4			41.25%		
	S/2 NE/4, E/2 SW/4, SE/4			41.25%		
				5.00%		
				100.00%		
	Sec. 7: Lots 1,2,3,4, E/2 W/2, E/2 (All)		TRACT 10 Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50%		
	Sec. 5: Lots 1,2, S/2 NE/4, SE/4			41.25%		
				41.25%		
				5.00%		
				100.00%		

SCHEDULE XXIV

TRIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT AC- TICIPATI
			OWNERSHIP	PERCENTAGE		
JF 080674	T-27-N, R-4-W	640.00	TRACT 11			5.710235%
	Sec. 15: E/2		Royalty;	12.50%	12.50%	
	Sec. 16: W/2		Working Interest;			
			El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	27.50%	27.50%	
			T. H. Harrington	2.75%	2.75%	
			Gerald E. Harrington	2.75%	2.75%	
			F. Eugene Harrington	2.75%	2.75%	
			James V. Harrington	2.75%	2.75%	
			Mary Jone Chappell	2.75%	2.75%	
		ORRI;	5.00%	5.00%		
			TOTAL	100.00%	100.00%	
JF 080675	T-27-N, R-4-W	320.00	TRACT 12			2.855116%
	Sec. 33: W/2		Royalty;	12.50%	12.50%	
			Working Interest;			
			El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	27.50%	27.50%	
			T. H. Harrington	2.75%	2.75%	
			Gerald E. Harrington	2.75%	2.75%	
			F. Eugene Harrington	2.75%	2.75%	
			James V. Harrington	2.75%	2.75%	
			Mary Jone Chappell	2.75%	2.75%	
		ORRI;	5.00%	5.00%		
			TOTAL	100.00%	100.00%	
Fec	T-27-N, R-4-W	321.13	TRACT 13			2.865198%
	Sec. 17: W/2 SW/4		Royalty;	12.50%	12.50%	
	Sec. 18: N/2 SE/4		Working Interest;			
	Sec. 19: Lots 2,3,4, SE/4 SW/4		El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

SCHEDULE XXIV

WELL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING SLOGG		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATIO
			OWNERSHIP	PERCENTAGE		
TRACT 14						
T-27-N, R-4-W		160.63				1.433179%
Sec. 18:	Lots 3,4, E/2 SW/4		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI:	12.50% 85.00% 2.50% 100.00%	12.50% 85.00% 2.50% 100.00%	
	TOTAL					

SCHEDULE XXIII

AL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU. PARTICIPATIO
			OWNERSHIP	PERCENTAGE		

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Sections 1, 4, 9, 11, 14, 16, 35:

Sections 5, 15:

Sections 6, 7, 8, 17, 18, 19, 20, 23,

26, 29, 30, 31, 36:

Total Number of Acres in Participating Area: 11,207.95

W/2

E/2

All



United States Department of the Interior

GEOLOGICAL SURVEY
P. O. Box 26124
Albuquerque, New Mexico 87125

FEB 2 1979

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

No. 554

Gentlemen:

Three approved copies of your 1979 plan of development for the San Juan 27-4 unit area, Rio Arriba County, New Mexico, proposing to drill four Mesaverde/Dakota wells, one Pictured Cliffs/Mesaverde well and two Mesaverde wells, one of which is in an intervening drilling block, are enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

ORIG. SIGNED
JACK WILLOCK

~~AC~~ Oil and Gas Supervisor, SRMA

Enclosures (3)

RECEIVED
NMOCD, Santa Fe (ltr. only)
Com. Pub. Lands, Santa Fe (ltr. only)
OIL CONSERVATION DIVISION
SANTA FE

← This Copy for

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 6, 1979

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

Attention: D. N. Canfield

Re: Case No. 554
San Juan 27-4 Unit
1979 Drilling Program

Gentlemen:

We hereby approve the 1979 Drilling Program for the San Juan 27-4 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

One approved copy of the Drilling Program is returned herewith.

Yours very truly,

JOE D. RAMEY
Director

JDR/LT/fd
enc.

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

C
O
P
Y

February 2, 1979

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

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

*Approved
APNs. 554*

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
1979 DRILLING PROGRAM

Gentlemen:

By letter dated January 12, 1978, El Paso Natural Gas Company, as Unit Operator, filed a drilling program for the captioned unit for the year 1978 providing for the drilling of one (1) Mesaverde well during 1978. This well was timely drilled.

San Juan 27-4 Unit #99 Well is being evaluated to determine whether or not such will cause an expansion of the Mesaverde Participating Area. A Pictured Cliffs well was timely drilled on the intervening drilling block created by the Seventeenth Expansion of the Pictured Cliffs formation in the E/2 Section 18, T-27-N, R-4-W by completing the Pictured Cliffs formation of the previously existing #121 Mesaverde well. This acreage is already included in the Pictured Cliffs Participating Area. The intervening drilling block created in the W/2 Section 9, T-27-N, R-4-W is scheduled for drilling as the #134 listed below.

As of this date, the total number of wells in the San Juan 27-4 unit is as follows:

Pictured Cliffs	42
Mesaverde	13
Dakota	31
Dakota, Non-commercial	1
Dakota/Gallup (OWWO)	1

Pictured Cliffs/Mesaverde	16
Mesaverde/Dakota	1
Mesaverde/Dakota, plugged back & completed in the Mesaverde only	2
Non-commercial Mesaverde	1
Plugged & Abandoned, Dakota	1
Plugged & Abandoned, Mesaverde/Dakota	1
Plugged & Abandoned, Mesaverde, Recompletion Dakota	<u>1</u>
	111

Pursuant to Section 10 of San Juan 27-4 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1979 providing for the drilling of the following wells:

#134	W/2 Sec. 9, T-27-N, R-4-W	Mesaverde
#13A	E/2 Sec. 20, T-27-N, R-4-W	Pictured Cliffs/Mesaverde
#132	E/2 Sec. 27, T-27-N, R-4-W	Mesaverde/Dakota
#133	W/2 Sec. 27, T-27-N, R-4-W	Mesaverde/Dakota
#101	E/2 Sec. 28, T-27-N, R-4-W	Mesaverde/Dakota
#20A	E/2 Sec. 29, T-27-N, R-4-W	Mesaverde
#102	E/2 Sec. 33, T-27-N, R-4-W	Mesaverde/Dakota

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

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

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

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

Very truly yours,



D. N. Canfield *jun*
Director of Land
Energy Resource Development

DNC/JLM/sfg
Attachment
San Juan 27-4, 3.0

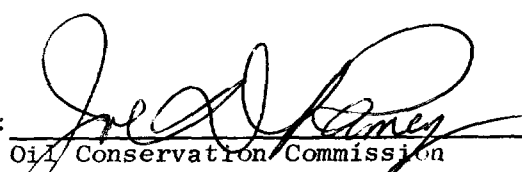
cc: Commission of Public Lands
(Information Only)

APPROVED: _____

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

DATE: _____

APPROVED: _____


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

DATE: _____

2/6/79

The foregoing approvals are for the 1979 Drilling Program for the San Juan 27-4
Unit #14-08-001-1054, Rio Arriba County, New Mexico.

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

El Paso NATURAL GAS
COMPANY

RECEIVED
R 22 1978
CONSERVATION COM.
SANTA FE

April 14, 1978

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

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

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

no. 554

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
TWENTY-FIRST & TWENTY-SECOND EXPANDED
PARTICIPATING AREA, Mesaverde
Formation, Effective September 1,
1977 and October 1, 1977,
respectively

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date indicated below that two (2) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include the following wells and acreage:

TWENTY-FIRST EXPANDED PARTICIPATING AREA - EFFECTIVE 9-1-77

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
T-27-N, R-4-W		
Section 36: E/2	320.00	SJ 27-4 #135

Pertinent data on this well is as follows:

The San Juan 27-4 Unit #135 Well, located 1030' from the North line and 1660' from the East Line of Section 36, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 6, 1977, and completed on August 17, 1977, at a total depth of 6595'. The Mesaverde Formation at the intervals of 5841, 5865, 5878, 5885, 5892, 5906, 5974, 5980, 5986, 6005, 6014, 6084, 6096, 6124, 6225, 6231, 6237, 6243, 6283, 6290, 6306, 6314, 6322, 6331, 6344, 6358, 6373, 6383, 6421, 6439, 6455, and 6483 was treated with a sand-water fracturing process on August 4, 1977. The well was shut-in on August 7, 1977, and after being shut-in for ten (10) days, the Mesaverde Formation was tested on August 17, 1977, using the Pitot tube method with an after frac guage of 1841 MCF/D, with an SIPC of 1172 psia and an SIPT of 1192 psia. The spacing unit for this well is described as the E/2 Section 36, Township 27 North, Range 4 West, N.M.P.M., containing 320.00 acres.

TWENTY-SECOND EXPANDED PARTICIPATING AREA - EFFECTIVE 10-1-77

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
<u>T-27-N, R-4-W</u>		
Section 23: E/2	320.00	SJ 27-4 #109

Pertinent data on this well is as follows:

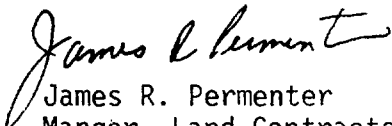
The San Juan 27-4 Unit #109 Well, located 990' from the South line and 1840' from the East line of Section 23, Township 27 North, Range 4 West, N.M.P.M., was spudded on June 21, 1977, and completed on September 15, 1977, at a total depth of 6499'. The Mesaverde Formation at the intervals of 5654, 5726, 5741, 5744, 5760, 5764, 5780, 5784, 5849, 5859, 5863, 5878, 5913, 6115, 6120, 6125, 6130, 6135, 6141, 6191, 6214, 6226, 6249, 6275, 6349, 6373, 6418, 6441, and 6459 was treated with a sand-water fracturing process on July 30, 1977. The well was shut-in on August 3, 1977, and after being shut-in for thirty-six (36) days, the Mesaverde Formation was tested on September 8, 1977, using the Pitot tube method with an after frac guage of 2523 MCF/D, with an SIPC of 1114 psia and an SIPT of 1117 psia. The spacing unit for this well is described as the E/2 of Section 23, Township 27 North, Range 4 West, N.M.P.M. containing 320.00 acres.

Regional Oil and Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
April 14, 1978
Page Three

Attached are Schedules XXII and XXIII showing the Twenty-First and Twenty-Second Expanded Participating Areas for the Mesaverde Formation of the San Juan 27-4 Unit Area. These describe the Expanded Participating Areas and show the percentage of unitized substances allocated to each unitized tract. Inasmuch as these need no official approval, no provision is made therefor, and in the absence of disapproval, the Twenty-First and Twenty-Second Expanded Participating Areas will become effective as of September 1, 1977 and October 1, 1977 respectively.

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

Yours very truly,



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

JRP:DM:paw
Enclosure
SJ 27-4, 4.2

cc: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XXII
 TWENTY-FIRST EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
 SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
NM 013297	T-27-N, R-4-W Sec. 1: Lots 3,4, S/2 NW/4, SW/4	319.91	TRACT 1		12.50%	12.50%
			Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;		83.75% 3.75%	
			TOTAL		100.00%	
			TRACT 2			
			Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;		83.75% 3.75%	
SF 079527	T-27-N, R-4-W Sec. 26: All Sec. 36: All	1280.00	TRACT 2		12.50%	12.50%
			Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;		83.75% 3.75%	
			TOTAL		100.00%	
			TRACT 4			
			Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;		41.25% 41.25% 5.00%	
SF 080668	T-27-N, R-4-W Sec. 4: Lots 3,4, S/2 NW/4, SW/4	319.20	TRACT 4		12.50%	12.50%
			Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;		41.25% 41.25% 5.00%	
			TOTAL		100.00%	
			TRACT 5			
			Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;		41.25% 41.25% 5.00%	
SF 080669	T-27-N, R-4-W Sec. 17: NW/4, E/2 SW/4, E/2 Sec. 18: Lots 1,2, E/2 NW/4, NE/4, S/2 SE/4 Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2	2080.84	TRACT 5		12.50%	12.50%
			Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;		41.25% 41.25% 5.00%	
			TOTAL		100.00%	
			TRACT 5			
			Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;		41.25% 41.25% 5.00%	

SCHEDULE XXII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080670	T-27-N, R-4-W	1924.72	TRACT 6			18.781513%
	Sec. 29: All		Royalty;	12.50%	12.50%	
	Sec. 30: All		Working Interest;			
	Sec. 31: All		El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	41.25%	41.25%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
SF 080671-A	T-27-N, R-4-W	320.00	TRACT 8			3.122576%
	Sec. 11: W/2		Royalty;	12.50%	12.50%	
			Working Interest;			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
				TOTAL	100.00%	100.00%
SF 080672	T-27-N, R-4-W	640.00	TRACT 9			6.245151%
	Sec. 14: W/2		Royalty;	12.50%	12.50%	
	Sec. 23: W/2		Working Interest;			
			El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	41.25%	41.25%	
			ORRI.	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
SF 080673	T-27-N, R-4-W	2241.52	TRACT 10			21.872862%
	Sec. 6: Lots 1,2,3,4,5,		Royalty;	12.50%	12.50%	
	6,7, SE/4 NW/4,		Working Interest;			
	S/2 NE/4, E/2 SW/4,		El Paso Natural Gas Co.;	41.25%	41.25%	
	SE/4		PWG Partnership	41.25%	41.25%	
			ORRI.	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
	Sec. 7: Lots 1,2,3,4, E/2					
	W/2, E/2 (All)					
	Sec. 5: Lots 1,2, S/2 NE/4,					
	SE/4					
	Sec. 8: All					

SCHEDULE XXII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 11						
SF 080674	T-27-N, R-4-W Sec. 15: E/2	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership T. H. Harrington Gerald E. Harrington F. Eugene Harrington James V. Harrington Mary Jone Chappell ORRI; TOTAL	12.50% 41.25% 27.50% 2.75% 2.75% 2.75% 2.75% 2.75% 5.00% <u>100.00%</u>	12.50% 41.25% 27.50% 2.75% 2.75% 2.75% 2.75% 2.75% 5.00% <u>100.00%</u>	<u>3.122576%</u>
TRACT 12						
SF 080675	T-27-N, R-4-W Sec. 33: W/2	520.00	Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership T. H. Harrington Gerald E. Harrington F. Eugene Harrington James V. Harrington Mary Jone Chappell ORRI; TOTAL	12.50% 41.25% 27.50% 2.75% 2.75% 2.75% 2.75% 2.75% 5.00% <u>100.00%</u>	12.50% 41.25% 27.50% 2.75% 2.75% 2.75% 2.75% 2.75% 5.00% <u>100.00%</u>	<u>5.122576%</u>
TRACT 13						
Fee	T-27-N, R-4-W Sec. 17: W/2 SW/4 Sec. 18: N/2 SE/4 Sec. 19: Lots 2,3,4, SE/4 SW/4	521.13	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	<u>5.153602%</u>
Page 5						

SCHEDULE XXII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 14						
Fee	T-27-N, R-4-W	160.63				<u>1.567435%</u>
	Sec. 18: Lots 3,4,					
	E/2 SW/4					
	Royalty;		12.50%	12.50%		
	Working Interest;					
	E1 Paso Natural Gas Co.;			85.00%	85.00%	
	ORRI;			<u>2.50%</u>	<u>2.50%</u>	
	TOTAL			<u>100.00%</u>	<u>100.00%</u>	

SCHEDULE XXII

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

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.
Section 1,4,11,14,23,33: W/2
Sections 5,15: E/2
Sections 6,7,8,17,18,19,20,26,29,30,31,36: All

Total Number of Acres in Participating Area: 10,247.95

SCHEDULE XXII
TWENTY-SECOND EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
NM 013297	T-27-N, R-4-W Sec. 1: Lots 3,4, S/2 NW/4, SW/4	319.91	TRACT 1		12.50%	12.50%
			Royalty;			
			Working Interest:			
			El Paso Natural Gas Co.;	83.75%	83.75%	
			ORRI;	3.75%	3.75%	
			TOTAL	100.00%	100.00%	3.027172%
SF 079527	T-27-N, R-4-W Sec. 26: All Sec. 36: All	1280.00	TRACT 2		12.50%	12.50%
			Royalty;			
			Working Interest:			
			El Paso Natural Gas Co.;	83.75%	83.75%	
			ORRI;	3.75%	3.75%	
			TOTAL	100.00%	100.00%	12.112094%
SF 080668	T-27-N, R-4-W Sec. 4: Lots 5,4, S/2 NW/4, SW/4	319.20	TRACT 4		12.50%	12.50%
			Royalty;			
			Working Interest:			
			El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	41.25%	41.25%	
ORRI;	5.00%	5.00%				
			TOTAL	100.00%	100.00%	5.020454%
SF 080669	T-27-N, R-4-W Sec. 17: NW/4, E/2 SW/4, E/2 Sec. 18: Lots 1,2, E/2 NW/4, NE/4, S/2 SE/4 Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2	2080.84	TRACT 5		12.50%	12.50%
			Royalty;			
			Working Interest:			
			El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	41.25%	41.25%	
ORRI;	5.00%	5.00%				
			TOTAL	100.00%	100.00%	19.690101%

SCHEDULE XXII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080670	T-27-N, R-4-W	1924.72	TRACT 6 Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50%	12.50%	<u>18.212804%</u>
	Sec. 29: All			41.25%	41.25%	
	Sec. 30: All			41.25%	41.25%	
	Sec. 31: All			5.00%	5.00%	
	TOTAL			100.00%	100.00%	
SF 080671-A	T-27-N, R-4-W	520.00	TRACT 8 Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	<u>5.028023%</u>
	Sec. 11: W/2			82.50%	82.50%	
				5.00%	5.00%	
	TOTAL			100.00%	100.00%	
SF 080672	T-27-N, R-4-W	960.00	TRACT 9 Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50%	12.50%	<u>9.084070%</u>
	Sec. 14: W/2			41.25%	41.25%	
	Sec. 25: All			41.25%	41.25%	
				5.00%	5.00%	
	TOTAL			100.00%	100.00%	
SF 080673	T-27-N, R-4-W	2241.52	TRACT 10 Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50%	12.50%	<u>21.210547%</u>
	Sec. 6: Lots 1,2,3,4,5, 6,7, SE/4 NE/4, S/2 NE/4, E/2 SW/4, SE/4			41.25%	41.25%	
	Sec. 7: Lots 1,2,3,4, E/2 W/2, E/2 (All)			41.25%	41.25%	
	Sec. 5: Lots 1,2, S/2 NE/4, SE/4			5.00%	5.00%	
	TOTAL			100.00%	100.00%	

SCHEDULE XXII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 11						
SF 080674	T-27-N, R-4-W Sec. 15: E/2	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership T. H. Harrington Gerald E. Harrington F. Eugene Harrington James V. Harrington Mary Jone Chappell ORRI;	12.50% 41.25% 27.50% 2.75% 2.75% 2.75% 2.75% 2.75% 5.00% 100.00%	12.50% 41.25% 27.50% 2.75% 2.75% 2.75% 2.75% 2.75% 5.00% 100.00%	3.028023%
TRACT 12						
SF 080675	T-27-N, R-4-W Sec. 33: W/2	520.00	Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership T. H. Harrington Gerald E. Harrington F. Eugene Harrington James V. Harrington Mary Jone Chappell ORRI;	12.50% 41.25% 27.50% 2.75% 2.75% 2.75% 2.75% 2.75% 5.00% 100.00%	12.50% 41.25% 27.50% 2.75% 2.75% 2.75% 2.75% 2.75% 5.00% 100.00%	3.028023%
TRACT 13						
Fee	T-27-N, R-4-W Sec. 17: W/2 SW/4 Sec. 18: N/2 SE/4 Sec. 19: Lots 2,3,4, SE/4 SW/4	521.13	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI.	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	3.028716%

Effective October 1, 1977

SCHEDULE XXII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUA PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 14						
Fee	T-27-N, R-4-W	160.63				
	Sec. 18: Lots 3, 4, E/2 SW/4					
			Royalty;	12.50%	12.50%	1.519973%
			Working Interest;			
			EI Paso Natural Gas Co.;	85.00%	85.00%	
		ORRI;	2.50%	2.50%		
		TOTAL	100.00%	100.00%		

SCHEDULE XXIII

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

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

Description of Lands in Participating Area:

Township 27, North, Range 4 West, N.M.P.M.
Sections 1,4,11,14,33: W/2
Sections 5,15: E/2
Sections 6,7,8,17,18,19,20,23,26,29,30,31, All
36:
Total Number of Acres in Participating Area: 10,567.95

El Paso NATURAL GAS
COMPANY

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

April 4, 1978

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

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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
Seventeenth Expanded Participating
Area - Pictured Cliffs Formation
Effective September 1, 1977

Gentlemen:

By letter dated March 31, 1978, El Paso submitted the above referenced Expansion to the San Juan 27-4 Unit Pictured Cliffs Participating Area. It has been discovered that an intervening drilling block was omitted from this expansion. The area omitted was the E/2 Section 18, Township 27 North, Range 4 West.

A new submittal has been prepared which includes the intervening drilling block with a revised schedule XVIII setting out the Seventeenth Expanded Participating Area for the Pictured Cliffs Formation.

Please disregard the previous submittal of March 31, 1978 and replace all copies with the enclosed.

April 4, 1978
Page Two

I apologize for any inconvenience this omission has caused you.

Very truly yours,

A handwritten signature in cursive script, reading "Derold Maney".

Derold Maney
Landman
Land Department
Energy Resource Development

DM/sf
San Juan 27-4 Unit, 4.1

cc: San Juan 27-4 Unit
Working Interest Owners

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

El Paso NATURAL GAS
COMPANY

REC 1978
P.O. BOX 1492
EL PASO, TEXAS 79978 CC
PHONE 545-543-2600

April 4, 1978

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

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

Ms. 554

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
SEVENTEENTH EXPANDED PARTICIPATING
AREA - Pictured Cliffs Formation
Effective September 1, 1977

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include the well that follows:

The San Juan 27-4 Unit #123 Well, located 1170' from the North line and 830' from the East line of Section 7, Township 27 North, Range 4 West, N.M.P.M., was spudded on June 4, 1977, and completed on August 24, 1977, at a total depth of 6412'. The Pictured Cliffs Formation at the intervals of 3826', 3837', 3849', 3862', 3876', and 3896', was treated with a sand-water fracturing process on July 19, 1977. The well was shut-in on July 23, 1977, and after being shut-in for thirty-two (32) days, the Pictured Cliffs Formation was tested on August 24, 1977, using the Pitot tube method with an after frac guage of

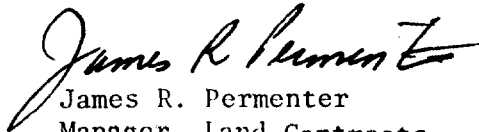
2173 MCF/D, with an SIPC of 1015 psia and an SIPT of 1017 psia. The spacing unit for this well is described as the E/2 of Section 7, Township 27 North, Range 4 West, N.M.P.M., covering 320.00 acres.

In addition to the acreage admitted by the above described well, the completion of the San Juan 27-4 Unit #123 Well creates one (1) intervening drilling block described as the E/2 of Section 18, Township 27 North, Range 4 West, containing 320.00 acres. Under the terms of the Unit Agreement, this intervening drilling block is also admitted to the Pictured Cliffs Participating Area, effective September 1, 1977 and a well must be commenced on this intervening drilling block by September 1, 1978.

Attached is Schedule XVIII showing the Seventeenth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 27-4 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, the Seventeenth Expanded Participating Area will become effective as of September 1, 1977.

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

Very truly yours,



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

JRP/DM/sf
Enclosure
SJ 27-4, 4.1

cc: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XVIII
SEVENTEENTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 079527	T-27-N, R-4-W	1280.00	Royalty; Working Interest: E1 Paso Natural Gas Co.; ORRI;	12.50%	12.50%	<u>10.122154%</u>
	Sec. 26: All			83.75%	83.75%	
	Sec. 36: All			3.75%	3.75%	
				<u>100.00%</u>	<u>100.00%</u>	
	TOTAL					
SF 080669	T-27-N, R-4-W	1920.35	Royalty; Working Interest: E1 Paso Natural Gas Co.; ORRI;	12.50%	12.50%	<u>15.185999%</u>
	Sec. 17: E/2 NW/4, E/2 SW/4			82.50%	82.50%	
	Sec. 18: NE/4, S/2 SE/4			5.00%	5.00%	
	Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2			<u>100.00%</u>	<u>100.00%</u>	
	Sec. 20: All					
SF 080670	T-27-N, R-4-W	2564.72	Royalty; Working Interest: E1 Paso Natural Gas Company; PWG Partnership ORRI;	12.50%	12.50%	<u>20.281633%</u>
	Sec. 29: All			41.25%	41.25%	
	Sec. 30: Lots 1,2,3,4, E/2 W/2, E/2 (All)			41.25%	41.25%	
	Sec. 31: Lots 1,2,3,4, E/2 W/2, E/2 (All)			5.00%	5.00%	
	Sec. 32: All			<u>100.00%</u>	<u>100.00%</u>	
SF 080672	T-27-N, R-4-W	1280.00	Royalty; Working Interest: E1 Paso Natural Gas Co.; PWG Partnership ORRI;	12.50%	12.50%	<u>10.122154%</u>
	Sec. 23: All			41.25%	41.25%	
	Sec. 24: All			41.25%	41.25%	
				5.00%	5.00%	
	TOTAL			<u>100.00%</u>	<u>100.00%</u>	

Effective 9-1-77

SCHEDULE XVIII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080673	T-27-N, R-4-W	1279.33				10.116856%
	Sec. 5: Lots 1, 2, S/2 NE/4 SE/4		Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25% 41.25% 5.00% 100.00%	
	Sec. 7: E/2					
	Sec. 8: A11					
	TOTAL					
SF 080674	T-27-N, R-4-W	1,600.00				12.652692%
	Sec. 16: W/2		Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership T. H. Harrington, Title Agent ORRI;	12.50% 41.25% 27.50% 13.75% 5.00% 100.00%	12.50% 41.25% 27.50% 13.75% 5.00% 100.00%	
	Sec. 21: A11					
	Sec. 22: A11					
	TOTAL					
SF 080675	T-27-N, R-4-W	2400.00				18.979038%
	Sec. 27: A11		Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25% 41.25% 5.00% 100.00%	
	Sec. 28: A11					
	Sec. 33: A11					
	Sec. 34: W/2 NE/4					
Fee	T-27-N, R-4-W	321.13				2.539474%
	Sec. 17: W/2 SW/4		Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	
	Sec. 18: N/2 SE/4					
	Sec. 19: Lots 2,3,4, SE/4 SW/4					
	TOTAL					

Effective 9-1-77

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Section 16, 34: W/2
Sections 8, 17, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 33, 36: All
Sections 5, 7, 18: E/2
Section 34: NE/4

Total number of acres in Participating Area: 12,645.53

Percent of Basic Royalty Committed: 100%
Percent of Working Interest Committed: 100%
Percent of ORRI Committed: 100%



REC 1978
P.O. BOX 1492
EL PASO, TEXAS 79928
PHONE 955-432000

April 4, 1978

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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
SEVENTEENTH EXPANDED PARTICIPATING
AREA - Pictured Cliffs Formation
Effective September 1, 1977

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include the well that follows:

The San Juan 27-4 Unit #123 Well, located 1170' from the North line and 830' from the East line of Section 7, Township 27 North, Range 4 West, N.M.P.M., was spudded on June 4, 1977, and completed on August 24, 1977, at a total depth of 6412'. The Pictured Cliffs Formation at the intervals of 3826', 3837', 3849', 3862', 3876', and 3896', was treated with a sand-water fracturing process on July 19, 1977. The well was shut-in on July 23, 1977, and after being shut-in for thirty-two (32) days, the Pictured Cliffs Formation was tested on August 24, 1977, using the Pitot tube method with an after frac guage of

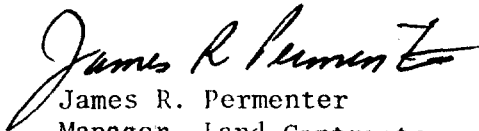
2173 MCF/D, with an SIPC of 1015 psia and an SIPT of 1017 psia. The spacing unit for this well is described as the E/2 of Section 7, Township 27 North, Range 4 West, N.M.P.M., covering 320.00 acres.

In addition to the acreage admitted by the above described well, the completion of the San Juan 27-4 Unit #123 Well creates one (1) intervening drilling block described as the E/2 of Section 18, Township 27 North, Range 4 West, containing 320.00 acres. Under the terms of the Unit Agreement, this intervening drilling block is also admitted to the Pictured Cliffs Participating Area, effective September 1, 1977 and a well must be commenced on this intervening drilling block by September 1, 1978.

Attached is Schedule XVIII showing the Seventeenth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 27-4 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, the Seventeenth Expanded Participating Area will become effective as of September 1, 1977.

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

Very truly yours,



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

JRP/DM/sf
Enclosure
SJ 27-4, 4.1

cc: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XVIII
SEVENTEENTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 079527	T-27-N, R-4-W Sec. 26: All Sec. 36: All	1280.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	<u>TRACT 2</u> 12.50% 83.75% 3.75% 100.00%	12.50% 83.75% 3.75% 100.00%	<u>10.122154%</u>
			TOTAL	100.00%		<u>15.185999%</u>
SF 080669	T-27-N, R-4-W Sec. 17: E/2 NW/4, E/2 SW/4 Sec. 18: NE/4, S/2 SE/4 Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2 Sec. 20: All	1920.35	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	<u>TRACT 5</u> 12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	<u>20.281633%</u>
			TOTAL	100.00%		
SF 080670	T-27-N, R-4-W Sec. 29: All Sec. 30: Lots 1,2,3,4, E/2 W/2, E/2 (All) Sec. 31: Lots 1,2,3,4, E/2 W/2, E/2 (All) Sec. 32: All	2564.72	Royalty; Working Interest: El Paso Natural Gas Company; PWG Partnership ORRI;	<u>TRACT 6</u> 12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25% 41.25% 5.00% 100.00%	<u>10.122154%</u>
			TOTAL	100.00%		
SF 080672	T-27-N, R-4-W Sec. 23: All Sec. 24: All	1280.00	Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI;	<u>TRACT 9</u> 12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25% 41.25% 5.00% 100.00%	<u>10.122154%</u>
			TOTAL	100.00%		

Effective 9-1-77

SCHEDULE XVIII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080673	T-27-N, R-4-W Sec. 5: Lots 1, 2, S/2 NE/4 SE/4 Sec. 7: E/2 Sec. 8: A11	1279.33	Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25% 41.25% 5.00% 100.00%	10.116856%
			TOTAL			
			TRACT 10			
SF 080674	T-27-N, R-4-W Sec. 16: W/2 Sec. 21: A11 Sec. 22: A11	1,600.00	Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership T. H. Harrington, Title Agent ORRI;	12.50% 41.25% 27.50% 13.75% 5.00% 100.00%	12.50% 41.25% 27.50% 13.75% 5.00% 100.00%	12.652692%
			TOTAL			
			TRACT 11			
SF 080675	T-27-N, R-4-W Sec. 27: A11 Sec. 28: A11 Sec. 33: A11 Sec. 34: W/2 NE/4	2400.00	Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25% 41.25% 5.00% 100.00%	18.979038%
			TOTAL			
			TRACT 12			
Fee	T-27-N, R-4-W Sec. 17: W/2 SW/4 Sec. 18: N/2 SE/4 Sec. 19: Lots 2,3,4, SE/4 SW/4	321.13	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	2.539474%
			TOTAL			
			TRACT 13			

Effective 9-1-77

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Section 16, 34: W/2

Sections 8, 17, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 33, 36: All

Sections 5, 7, 18: E/2

Section 34: NE/4

Total number of acres in Participating Area: 12,645.53

Percent of Basic Royalty Committed: 100%

Percent of Working Interest Committed: 100%

Percent of ORRI Committed: 100%

El Paso NATURAL GAS
COMPANY

3193
P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

March 31, 1978

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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
Mesaverde Formation -- NOTICE OF
COMPLETION OF ADDITIONAL WELLS

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to the Unit.

This well is as follows:

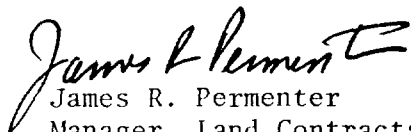
The San Juan 27-4 Unit #123 Well, located 1170' from the North line and 830' from the East line of Section 7, Township 27 North, Range 4 West, N.M.P.M., was spudded on June 4, 1977, and completed on August 24, 1977, at a total depth of 6412'. The Mesaverde Formation at the intervals of 5496', 5510', 5529', 5583', 5614', 5629', 5710', 5741', 5753', 5780', 5802', 5838', 5853', 5995', 6046', 6065', 6100', 6140', 6220', 6243', 6261', and 6313', was treated with a sand-water fracturing process July 19, 1977. The well was shut-in on July 23, 1977, and after being shut-in for sixteen (16) days, the Mesaverde Formation was tested on August 16, 1977, using the Pitot tube method with an after frac guage of 4526

MCF/D, with an SIPT of 1147 psia. The spacing unit for this well is described as the E/2 of Section 7, Township 27 North, Range 4 West, N.M.P.M., containing 320.00 acres.

The above described spacing unit was included in the San Juan 27-4 Unit Twentieth Expanded Participating Area of the Mesaverde Formation effective November 1, 1976, as a result of the completion of the San Juan 27-4 Unit, #124 Well. Therefore, the Mesaverde Participating Area is not enlarged.

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

Very truly yours,



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

JRP/DM/sf
Enclosure
SJ 27-4, 4.2.1

cc: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

El Paso NATURAL GAS
COMPANY

03 19 78
P. O. BOX 1482
EL PASO, TEXAS 79978
PHONE: 915-543-2600

March 31, 1978

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

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

no. 554

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
SEVENTEENTH EXPANDED PARTICIPATING
AREA - Pictured Cliffs Formation
Effective September 1, 1977

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include the well that follows:

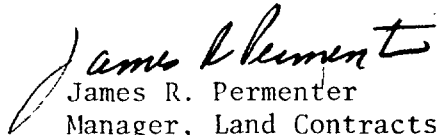
The San Juan 27-4 Unit #123 Well, located 1170' from the North line and 830' from the East line of Section 7, Township 27 North, Range 4 West, N.M.P.M., was spudded on June 4, 1977, and completed on August 24, 1977, at a total depth of 6412'. The Pictured Cliffs Formation at the intervals of 3826', 3837', 3849', 3862', 3876', and 3896', was treated with a sand-water fracturing process on July 19, 1977. The well shut-in on July 23, 1977, and after being shut-in for thirty-two (32) days, the Pictured Cliffs Formation was tested on August 24, 1977, using the Pitot tube method with

an after frac guage of 2173 MCF/D, with an SIPC of 1015 psia and an SIPT of 1017 psia. The spacing unit for this well is described as the E/2 of Section 7, Township 27 North, Range 4 West, N.M.P.M., containing 320.00 acres.

Attached is Schedule XVIII showing the Seventeenth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 27-4 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, the Seventeenth Expanded Participating Area will become effective as of September 1, 1977.

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

Very truly yours,



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

JRP/DM/sf
Enclosure
SJ 27-4, 4.1

cc: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
WORKING INTEREST OWNERS

Mary Jone Chappell

Clifton Resources, Inc.

General American Oil Company of Texas

F. Eugene Harrington

Gerald E. Harrington

James V. Harrington

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XVIII
SEVENTEENTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 27-4 UNIT AREA

AL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 079527	T-27-N, R-4-W	1280.00	<u>TRACT 2</u>			
	Sec. 26: All		Royalty; Working Interest;	12.50%	12.50%	<u>10.384949%</u>
	Sec. 36: All		E1 Paso Natural Gas Co.; ORRI;	83.75% 3.75%	83.75% 3.75%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
SF 080669	T-27-N, R-4-W	1680.35	<u>TRACT 5</u>			
	Sec. 17: E/2 NW/4, E/2 SW/4		Royalty; Working Interest;	12.50%	12.50%	<u>13.633085%</u>
	Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2		E1 Paso Natural Gas Co.; ORRI;	82.50% 5.00%	82.50% 5.00%	
	Sec. 20: All		TOTAL	<u>100.00%</u>	<u>100.00%</u>	
SF 080670	T-27-N, R-4-W	2564.72	<u>TRACT 6</u>			
	Sec. 29: All		Royalty; Working Interest;	12.50%	12.50%	<u>20.808193%</u>
	Sec. 30: Lots 1,2,3,4, E/2 W/2, E/2 (All)		E1 Paso Natural Gas Company; PWG Partnership	41.25% 41.25%	41.25% 41.25%	
	Sec. 31: Lots 1,2,3,4, E/2 W/2, E/2 (All)		ORRI;	5.00%	5.00%	
	Sec. 32: All		TOTAL	<u>100.00%</u>	<u>100.00%</u>	
SF 080672	T-27-N, R-4-W	1280.00	<u>TRACT 9</u>			
	Sec. 23: All		Royalty; Working Interest;	12.50%	12.50%	<u>10.384949%</u>
	Sec. 24: All		E1 Paso Natural Gas Co.; PWG Partnership	41.25% 41.25%	41.25% 41.25%	
			ORRI;	5.00%	5.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	

SCHEDULE XVIII

AL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080673	T-27-N, R-4-W	1279.33				
	Sec. 5: Lots 1,2, S/2 NE/4, SE/4		Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25% 41.25% 5.00% 100.00%	10.379513%
	Sec. 7: E/2					
	Sec. 8: All					
	TOTAL					
SF 080674	T-27-N, R-4-W	1,600.00				
	Sec. 16: W/2		Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership T. H. Harrington, Title Agent ORRI;	12.50% 41.25% 27.50% 13.75% 5.00% 100.00%	12.50% 41.25% 27.50% 13.75% 5.00% 100.00%	12.981186%
	Sec. 21: All					
	Sec. 22: All					
	TOTAL					
SF 080675	T-27-N, R-4-W	2400.00				
	Sec. 27: All		Royalty; Working Interest; El Paso Natural Gas Co.; PWG Partnership ORRI;	12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25% 41.25% 5.00% 100.00%	19.471779%
	Sec. 28: All					
	Sec. 33: All					
	Sec. 34: W/2, NE/4					
Fee	T-27-N, R-4-W	241.13				
	Sec. 19: Lots 2,3,4, SE/4 SW/4		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	1.956346%
	Sec. 17: W/2 SW/4					
TOTAL						

RECAPITULATION

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Sections 16, 34: W/2

Sections 8, 17, 19, 20, 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 33, 36: All

Sections 5,7: E/2

Section 34: NE/4

Total number of acres in Participating Area: 12,325.53

Percent of Basic Royalty Committed:

100%

Percent of Working Interest Committed:

100%

Percent of ORRI Committed:

100%

January 31, 1978

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

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

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

Re: San Juan 27-4 Unit
Rio Arriba County, New Mexico
1978 DRILLING PROGRAM


Gentlemen:

The 1978 Drilling Program for the referenced unit was approved by the regulatory bodies on the following dates:

United States Geological Survey	January 27, 1978
Commissioner of Public Lands	Not Applicable
Oil Conservation Commission	January 19, 1978

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

Yours very truly,



Derold Maney
Landman
Land Department
Energy Resource Development

DM/sf

San Juan 27-4 Unit 3.0

SAN JUAN 27-4 UNIT
Working Interest Owners

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero



United States Department of the Interior

GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

JAN 20 1978

JAN 27 1978

No. 554

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

Gentlemen:

The 1978 plan of development submitted for the San Juan 27-4 unit area, Rio Arriba County, New Mexico, was approved on this date subject to like approval by the appropriate State officials.

Such plan proposes the drilling of one Mesaverde well on lands outside the Mesaverde participating area.

Two approved copies are enclosed.

Sincerely yours,

Dir. Geol. Survey

Enclosures

cc:

NMOCC, Santa Fe (1tr. only)
Com. Pub. Lands, Santa Fe (1tr. only)

This Copy for

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 19, 1978

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

Attention: D. N. Canfield

Re: Case No. 554
San Juan 27-4 Unit
1978 Drilling Program

Gentlemen:

We hereby approve the 1978 Drilling Program for the San Juan 27-4 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

One approved copy of the Drilling Program is returned herewith.

Very truly yours,

JOE D. RAMEY
Secretary-Director

JDR/LT/fd
enc.

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

C
O
P
Y

El Paso NATURAL GAS
COMPANY

CON 13
P.O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

January 12, 1978

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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
1978 DRILLING PROGRAM

no. 554
Approved

Gentlemen:

By letter dated February 25, 1977, El Paso Natural Gas Company, as Unit Operator, filed a drilling program for the captioned unit for the year 1977, providing for the drilling of one (1) Pictured Cliffs well, and two (2) dual Pictured Cliffs/Mesaverde wells and one (1) Mesaverde well, during 1977. All wells were timely drilled.

Dual Pictured Cliffs/Mesaverde well No. 16A was drilled within the existing participating areas and did not cause an expansion. Dual Pictured Cliffs/Mesaverde well No. 123 was drilled within the existing Mesaverde Participating Area and will not cause an expansion. The Pictured Cliffs Formation is currently being evaluated to determine if an expansion of that Participating Area will be caused by the completion of the No. 123 well. Mesaverde well No. 135 was determined to be a commercial well and will cause an expansion of the Mesaverde Participating Area. Dual Pictured Cliffs Mesaverde well No. 109 is currently being evaluated to determine if it will cause an expansion of the Mesaverde Participating Area. The Pictured Cliffs Participating Area already includes the acreage dedicated to the No. 109 well.

As of this date, the total number of wells in the San Juan 27-4 Unit is as follows:

Pictured Cliffs	42
Mesaverde	13
Dakota	31
Dakota, Non-commercial	1
Dakota/Gallup (OWWO)	1
Pictured Cliffs/Mesaverde	15

Mesaverde/Dakota	1
Mesaverde/Dakota, plugged back & completed in the Mesaverde only	2
Non-commercial Mesaverde	1
Plugged & Abandoned, Dakota	1
Plugged & Abandoned, Mesaverde/Dakota	1
Plugged & Abandoned, Mesaverde,	
Recompletion Dakota	<u>1</u>
	110

Pursuant to Section 10 of the San Juan 27-4 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1978 providing for the drilling of the following well:

<u>Well No.</u>	<u>Formation</u>	<u>Drilling Block for Spacing Unit</u>
99	Mesaverde	W/2 Section 16, T-27-N, R-4-W


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

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

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

Copies of this 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/DM/sf

Attachment

San Juan 27-4, 3.0

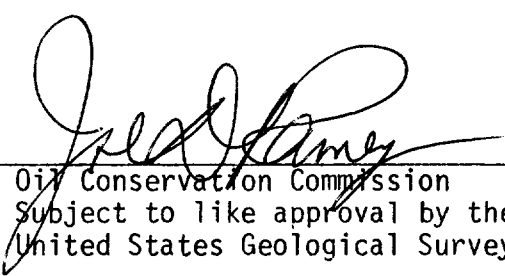
Cc: Commission of Public Lands
(Information only)

APPROVED: _____

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

DATE: _____

APPROVED: _____


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

DATE: 1/19/78

The foregoing approvals are for the 1978 Drilling Program for the San Juan 27-4
Unit #14-08-001-1054, Rio Arriba County, New Mexico.

SAN JUAN 27-4 UNIT
Working Interest Owners

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

August 19, 1977

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

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

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

Mr. 554

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
Mesaverde, Pictured Cliffs Formations
NOTICE OF COMPLETION OF ADDITIONAL WELL

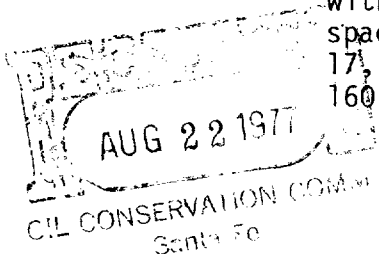
Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde and Pictured Cliffs Formations has been completed upon acreage committed to the Unit.

This well is as follows:

Pictured Cliffs Formation

The San Juan 27-4 Unit #16-A Well (Pictured Cliffs/Mesaverde), located 850' from the North line and 850' from the West line of Section 17, Township 27 North, Range 4 West, N.M.P.M., was spudded on May 23, 1977, and completed on August 5, 1977, at a total depth of 6110'. The Pictured Cliffs Formation at the intervals of 3514', 3524', 3548', 3554', 3566', 3572', 3578', 3592', 3598', and 3604' was treated with a sand-water fracturing process on July 13, 1977. The well was shut-in on July 17, 1977, and after being shut-in for eighteen (18) days, the Pictured Cliffs Formation was tested on August 5, 1977, using the Pitot tube method with an after frac gauge of 2195 MCF/D, with an SIPC of 1052 psia and and SIPT of 967 psia. The spacing unit for this well is described as the NW/4 of Section 17, Township 24 North, Range 7 West, N.M.P.M., containing 160.00 acres.



August 19, 1977

The above described spacing unit was included in the San Juan 27-4 Unit Fifteenth Expanded Participating Area of the Pictured Cliffs Formation effective November 1, 1976, as a result of the completion of the San Juan 27-4 Unit #124 Well. Therefore, the Pictured Cliffs Participating Area is not enlarged.

Mesaverde Formation

The San Juan 27-4 Unit #16-A Well (Pictured Cliffs/Mesaverde), located 850' from the North line and 850' from the West line of Section 17, Township 27 North, Range 4 West, N.M.P.M., was spudded on May 23, 1977, and completed on August 5, 1977, at a total depth of 6110'. The Mesaverde Formation at the intervals of 5207', 5212', 5290', 5297', 5316', 5322', 5332', 5342', 5418', 5434', 5480', 5490', 5568', 5584', 5642', 5648', 5707', 5730', 5753', 5759', 5775', 5785', 5796', 5800', 5817', 5823', 5833', 5837', 5853', 5857', 5932', 5938', 5955', 5961', 5983', 5993', 6020', 6030', 6062', and 6072' was treated with a sand-water fracturing process on July 13, 1977. The well was shut-in on July 17, 1977, and after being shut-in for eleven (11) days, the Mesaverde Formation was tested on July 28, 1977, using the Pitot tube method with an after frac gauge of 3669 MCF/D, and with an SIPT of 1062 psia. The spacing unit for this well is described as the W/2 of Section 17, Township 24 North, Range 4 West, N.M.P.M., containing 320.00 acres.

The above described spacing unit was included in the San Juan 27-4 Unit Eighteenth Expanded Participating Area of the Mesaverde Formation effective December 1, 1973, as a result of the completion of the San Juan Unit #16 Well. Therefore, the Mesaverde Participating Area is not enlarged.

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

Very truly yours,



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

JRP:is

Attachment

SJ 27-4, 4.1.1, 4.2.1

c: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
Working Interest Owners

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

El Paso NATURAL GAS
COMPANY

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

JUN 13 1977

June 7, 1977

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

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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
Mesaverde Formation -- NOTICE OF
COMPLETION OF ADDITIONAL WELL

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to the Unit.

This well is as follows:

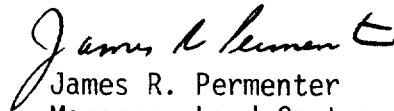
The San Juan 27-4 Unit #125 Well located 1550' from the North Line and 1717' from the East Line of Section 8, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 21, 1976 and completed on December 16, 1976, in the Mesaverde Formation at a total depth of 6,400'. The Mesaverde Formation at the intervals 5541', 5583', 5593', 5607', 5621', 5629', 5639', 5649', 6023', 6028', 6033', 6045', 6049', 6099', 6106', 6117', 6130', 6151', 6171', 6219', 6265', 6294', 6305', 6331', and 6361', was treated with a sand-water fracturing process on September 20, 1976. The

well was shut-in on December 2, 1976, and after being shut-in for seven (7) days, the well was tested on December 9, 1976, and following a three (3) hour blow-down period, the Mesaverde Formation gauged 3612 MCF/D through a 3/4" choke and 5183 MDF/D by the calculated absolute open-flow method, with an SIPT of 1024 psia and an SIPC of 1024 psia. The spacing unit for this well is described as the E/2 of Section 8, Township 27 North, Range 4 West, containing 320.00 acres.

The above described spacing unit was included in the San Juan 27-4 Unit Nineteenth Expanded Participating Area of the Mesaverde Formation effective October 1, 1976, as a result of the completion of the San Juan 27-4 Unit #73 Well. Therefore, the Mesaverde Participating Area is not enlarged.

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

Very truly yours,



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

JRP:is

Attachment

SJ 27-4, 4.2.1

c: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
Working Interest Owners

Clifton Resources, Inc.

General American Oil Company of Texas

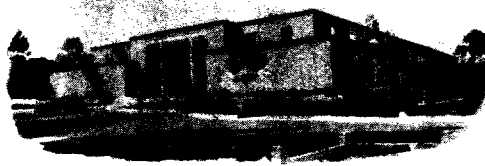
Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

554

State of New Mexico



Commissioner of Public Lands

PHIL R. LUCERO
COMMISSIONER

May 27, 1977

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 27-4 Unit
Rio Arriba County, New Mexico
SIXTEENTH EXPANDED PARTICIPATING
AREA- Pictured Cliffs Formation
Effective December 1, 1976

ATTENTION: Mr. James R. Permenter

Gentlemen:

We are in receipt of two copies of the Sixteenth Expanded Participating Area for the Pictured Cliffs Formation, for the San Juan 27-4 Unit, Rio Arriba County, New Mexico.

This unit contains no State of New Mexico Lands, therefore, we have retained one copy for record purposes and enclosed is one copy for your files reflecting the date it was received in this office.

Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

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

PRL/RDG/s
encl.
cc:

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

El Paso NATURAL GAS
COMPANY

554
P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

May 23, 1977

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

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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
SIXTEENTH EXPANDED PARTICIPATING
AREA - Pictured Cliffs Formation
Effective December 1, 1976

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054 approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include the well that follows:

The San Juan 27-4 Unit #110 well, located 1035' from the South Line and 1760' from the West Line of Section 23, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 22, 1976, and completed on November 29, 1976, in the Pictured Cliffs Formation at a total depth of 4199'. The Pictured Cliffs Formation at the intervals 4032', 4040', 4044', 4056', 4062', 4078', 4096', and 4112' was treated with a sand-water fracturing process on November 29, 1976. The well was shut-in on November 18, 1976, and after being shut-in for eleven (11) days,

Regional Oil and Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
May 23, 1977
Page Two

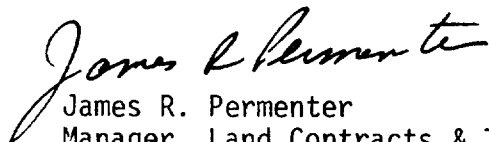
the well was tested on November 29, 1976, with an after frac gauge of 2157 MCF/D using the Pitot tube method, with an SIPC of 1100 psia. The spacing unit for this well is described as the W/2 of Section 23, Township 27 North, Range 4 West, containing 320.00 acres.

In addition, the completion of well #110 creates one intervening drilling block as defined in Section 11(a) of the Unit Agreement, described as the E/2 of Section 23, which is also admitted to the Pictured Cliffs Participating Area. Under the terms of the Unit Agreement, a Pictured Cliffs well must be commenced within one year from the effective date of this Expansion.

Attached is Schedule XVII showing the Sixteenth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 274 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, the Sixteenth Expanded Participating Area will become effective as of December 1, 1976.

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

Yours very truly,



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

JRP:DM:is

Enclosures

SJ 27-4, 4.1

c: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
Working Interest Owners

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XVII
SIXTEENTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 27-4 UNIT AREA

AL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 079527	T-27-N, R-4-W	1280.00	<u>TRACT 2</u>			
	Sec. 26: All		Royalty;	12.50%	12.50%	
	Sec. 36: All		Working Interest;			
			El Paso Natural Gas Co.;	83.75%	83.75%	
			ORRI;	3.75%	3.75%	
			TOTAL	100.00%	100.00%	10.661753%
SF 080669	T-27-N, R-4-W	1680.35	<u>TRACT 5</u>			
	Sec. 17: E/2,NW/4, E/2 SW/4		Royalty;	12.50%	12.50%	
	Sec. 19: Lot 1, E/2		Working Interest;			
	NW/4, NE/4 SW/4, E/2		El Paso Natural Gas Co.;	82.50%	82.50%	
	Sec. 20: All		ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	13.996467%
SF 080670	T-27-N, R-4-W	2564.72	<u>TRACT 6</u>			
	Sec. 29: All		Royalty;	12.50%	12.50%	
	Sec. 30: Lots 1,2,3,4, E/2 W/2, E/2 (All)		Working Interest;			
	Sec. 31: Lots 1,2,3,4, E/2 W/2, E/2 (All)		El Paso Natural Gas Company;	82.50%	82.50%	
	Sec. 32: All		ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	21.362822%
SF 080672	T-27-N, R-4-W	1280.00	<u>TRACT 9</u>			
	Sec. 23: All		Royalty;	12.50%	12.50%	
	Sec. 24: All		Working Interest;			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	10.661753%

Effective 12-1-76

SCHEDULE XVII

AL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACT PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080673	T-27-N, R-4-W	959.33				
	Sec. 5: Lots 1,2, S/2 NE/4, SE/4		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%		7.990734%
	Sec. 8: All					
	TOTAL					
SF 080674	T-27-N, R-4-W	1,600.00				
	Sec. 16: W/2		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%		13.327192%
	Sec. 21: All					
	Sec. 22: All					
SF 080675	T-27-N, R-4-W	2400.00				
	Sec. 27: All		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%		19.990788%
	Sec. 28: All					
	Sec. 33: All					
Fee	Sec. 34: W/2, NE/4					
	T-27-N, R-4-W	241.13				
	Sec. 19: Lots 2,3,4, SE/4 SW/4		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%		2.008491%
	Sec. 17: W/2 SW/4					

Effective 12-1-76

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Sections 8,16,34: W/2
Sections 17,19,20,21,22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 33, 36: A11
Section 5: E/2
Section 34: NE/4

Total number of acres in Participating Area: 12,005.53

Percent of Basic Royalty Committed: 100%
Percent of Working Interest Committed: 100%
Percent of ORRI Committed: 100%

El Paso NATURAL GAS
COMPANY

554
P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

April 4, 1977

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

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

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

Re: San Juan 27-4 Unit
Rio Arriba County, New Mexico
1977 DRILLING PROGRAM

Gentlemen:

The 1977 Drilling Program for the referenced unit was approved by the regulatory bodies on the following dates:

United States Geological Survey	March 30, 1977
Commissioner of Public Lands	Not Applicable
Oil Conservation Commission	March 30, 1977

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

Yours very truly,



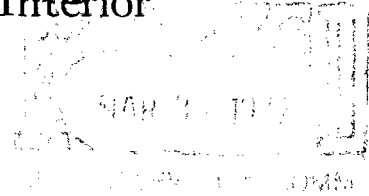
Derold Maney
Landman
Land Department
Energy Resource Development

DM/mb
SJ 27-4 Unit 3.0



United States Department of the Interior

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



MAR 30 1977

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

Gentlemen:

Three approved copies of your 1977 plan of development for the San Juan 27-4 unit area, Rio Arriba County, New Mexico, are enclosed. Such plan, proposing the drilling of two Pictured Cliffs wells, one Pictured Cliffs/Mesaverde well, and one Mesaverde well was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

(CRIS. SOD.) JAMES W. SUTHERLAND

Area Oil and Gas Supervisor

Enclosure

cc:
NMOCC, Santa Fe (ltr. only)
Com. Pub. Lands, Santa Fe (ltr. only)



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

P. O. BOX 2088 - SANTA FE

87501



DIRECTOR
JOE D. RAMEY

LAND COMMISSIONER
PHIL R. LUCERO

STATE GEOLOGIST
EMERY C. ARNOLD

March 30, 1977

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

Attention: Mr. D. N. Canfield

Re: 1977 Drilling Program,
San Juan 27-4 Unit, Rio Arriba
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1977 providing for the drilling of four wells for the San Juan 27-4 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

One approved copy of the program is returned herewith.

Very truly yours,

JOE D. RAMEY
Secretary-Director

JDR/JEK/og

cc: U. S. Geological Survey
Box 1857
Roswell, New Mexico

554

APR 23 1977

EL PASO NATURAL GAS
COMPANY

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

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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
Mesaverde Formation -- NOTICE OF
COMPLETION OF ADDITIONAL WELLS

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to the Unit.

This well is as follows:

The San Juan 27-4 Unit #125 Well located 1550' from the North Line and 1717' from the East Line of Section 8, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 21, 1976 and completed on December 16, 1976, in the Mesaverde Formation at a total depth of 6,400'. The Mesaverde Formation at the intervals 5525', 5541', 5583', 5593', 5607', 5621', 5629', 5639', 5649', 6023', 6028', 6033', 6045', 6049', 6099', 6106', 6117', 6130', 6151', 6171', 6219', 6265', 6295', 6331' and 6361' was treated with a sand-water fracturing

March 24, 1977

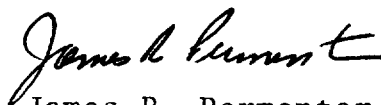
Page 2.

process on September 20, 1976. The well was shut-in on December 2, 1976, and after being shut-in for seven (7) days, the well was tested on December 9, 1976, and following a three (3) hour blow-down period, the Mesaverde Formation gauged 3912 MCF/D through a 3/4" choke and 5183 MDF/D by the calculated absolute open-flow method, with an SIPT of 1024 psia and a SIPC of 1024 psia. The spacing unit for this well is described as the E/2 of Section 8, Township 27 North, Range 4 West, containing 320.00 acres.

The above described spacing unit was included in the San Juan 27-4 Unit Nineteenth Expanded Participating Area of the Mesaverde Formation effective October 1, 1976, as a result of the completion of the San Juan 27-4 Unit #105 Well. Therefore, the Mesaverde Participating Area is not enlarged.

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

Very truly yours,



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

JRP:DW:sas
Enclosure
SJ 27-4, 4.2.1

cc: Mr. Antonio Martinez

Working Interest Owners
San Juan 27-4 Unit

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

February 25, 1977

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

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
1977 DRILLING PROGRAM

Gentlemen:

By letter dated January 2, 1976, El Paso Natural Gas Company, as Unit Operator, filed a drilling program for the captioned unit for the year 1976, providing for the drilling of seven (7) Pictured Cliffs wells, and four (4) dual Pictured Cliffs/Mesaverde wells, during 1976. All wells were timely drilled.

Pictured Cliffs Wells Nos. 90, 113, 114, 115, 116 and 119 were drilled within the existing boundaries of the Pictured Cliffs Participating Area and did not cause an expansion of the Pictured Cliffs Participating Area. Dual Pictured Cliffs/Mesaverde Wells Nos. 73 and 105 caused the 19th Expansion, and dual Pictured Cliffs/Mesaverde Well No. 124 caused the 20th Expansion of the Mesaverde Participating Area. Dual Pictured Cliffs/Mesaverde Wells Nos. 73, 105 and 125 were drilled within the boundaries of the Pictured Cliffs Participating Area and did not cause an expansion of the Pictured Cliffs Participating Area. Dual Pictured Cliffs/Mesaverde Well No. 125 was drilled within the boundaries of the Mesaverde Participating Area and will not cause an expansion of the Mesaverde Participating Area. Dual Pictured Cliffs/Mesaverde Well No. 124 was drilled outside of the boundaries of the Pictured Cliffs Participating Area and caused the 15th Expansion of the Pictured Cliffs Participating Area. Pictured Cliffs Well No. 110 was also drilled outside of the boundaries of the Pictured Cliffs Participating Area and is currently being evaluated to determine if it will cause an expansion of the Pictured Cliffs Participating Area.

Regional Oil & Gas Supervisor
Oil Conservation Commission
Page Two

As of this date, the total number of wells in the San Juan 27-4 Unit is as follows:

Pictured Cliffs	41
Mesaverde	12
Dakota	31
Dakota, Non-commercial	1
Dakota/Gallup (OWWO)	1
Pictured Cliffs/Mesaverde	13
Mesaverde/Dakota	1
Mesaverde/Dakota, plugged back & completed in the Mesaverde only	2
Non-commercial Mesaverde	1
Plugged & Abandoned, Dakota	1
Plugged & Abandoned, Mesaverde/Dakota	1
Plugged & Abandoned, Mesaverde, Recompletion Dakota	1
	<u>106</u>

Pursuant to Section 10 of the San Juan 27-4 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1977 providing for the drilling of the following wells:

<u>Well No.</u>	<u>Formation</u>	<u>Drilling Block or Spacing Unit</u>
109	Pictured Cliffs	E/2 Section 23, T-27-N, R-4-W
134	Pictured Cliffs	W/2 Section 17, T-27-N, R-4-W
123	PC/Mesaverde	E/2 Section 7, T-27-N, R-4-W
135	Mesaverde	E/2 Section 36, T-27-N, R-4-W

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

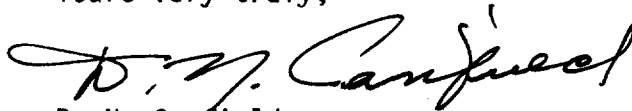
El Paso Natural Gas Company, as Unit Operator, plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the working interest owners.

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

Regional Oil & Gas Supervisor
Oil Conservation Commission
Page Three

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

D. N. Canfield
Director of Land
Energy Resource Development

DNC/DW/mb

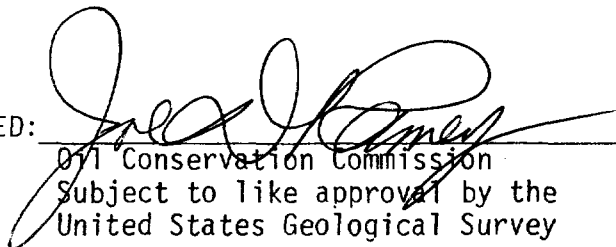
Attachment

SJ 27-4, 3.0

Cc: Commission of Public Lands
(Information only)

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

DATE: _____

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

DATE: March 30, 1977

The foregoing approvals are for the 1977 Drilling Program for the San Juan 27-4
Unit #14-08-001-1054, Rio Arriba County, New Mexico.

SAN JUAN 27-4 UNIT
Working Interest Owners

Clifton Resources, Inc.

General American Oil Company of Texas

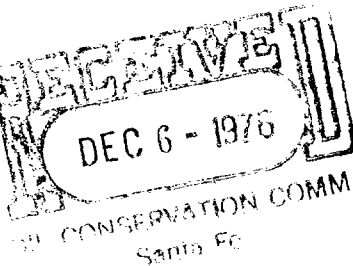
Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

554

El Paso NATURAL GAS COMPANY



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

December 3, 1976

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 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
CORRECTED FOURTEENTH EXPANDED
PARTICIPATING AREA - Pictured
Cliffs Formation - Effective
February 1, 1975

Gentlemen:

By letter dated October 28, 1975, El Paso Natural Gas Company filed the Fourteenth Expansion for the San Juan 27-4 Unit Pictured Cliffs Participating Area. In that expansion, we inadvertently omitted an intervening drilling block, described as the E/2 Section 8, T-27-N, R-4-W. In compliance with the Unit Agreement, a Pictured Cliffs well should have been commenced on this drilling block by February 1, 1976. Since the acreage was not included in the expansion, a well was not commenced by February 1, 1976, however, the #125 well (Pictured Cliffs/Mesaverde) was commenced on this drilling block on July 21, 1976. As a result of the omission of the E/2 of Section 8, El Paso is now filing this Corrected Fourteenth Expansion of the San Juan 27-4 Unit Pictured Cliffs Participating Area.

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054 approved September 3, 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 Pictured Cliffs Formation has been completed upon acreage committed to this unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include the wells that follow:

The San Juan 27-4 Unit #72 well, located 1070' from the South Line and 1850' from the West Line of Section 16, Township 27 North, Range 4 West, N.M.P.M., was spudded on November 14, 1974, and completed on January 2, 1975, in the Pictured Cliffs Formation at a total depth of 4224'. The Pictured Cliffs Formation at the intervals between 4040'-4048', 4060'-4068', 4084'-4092' and 4098'-4106' was treated with a sand-water fracturing process on December 2, 1974. The well was shut-in on December 12, 1974, and after being shut-in for twenty-one (21) days, the well was tested on January 2, 1975, and following a three (3) hour blow-down period, the Pictured Cliffs Formation gauged 1019 MCF/D through a 3/4" choke and 1029 MCF/D by the calculated absolute open-flow method, with an SIPC of 1048 psia. The spacing unit for this well is described as the W/2 of Section 16, Township 27 North, Range 4 West containing 320.00 acres.

The San Juan 27-4 Unit #74 well, located 810' from the South Line and 1125' from the East Line of Section 17, Township 27 North, Range 4 West, N.M.P.M., was spudded on November 4, 1974, and completed on January 2, 1975, in the Pictured Cliffs Formation at a total depth of 4241'. The Pictured Cliffs Formation at the intervals between 4062'-4072' and 4106'-4114' was treated with a sand-water fracturing process on November 22, 1974. The well was shut-in on December 12, 1974, and after being shut-in for twenty-one (21) days, the well was tested on January 2, 1975, and following a three (3) hour blow-down period, the Pictured Cliffs Formation gauged 586 MCF/D through a 3/4" choke and 590 MCF/D by the calculated absolute open-flow method, with an SIPC of 797 psia. The spacing unit for this well is described as the E/2 of Section 17, Township 27 North, Range 4 West, containing 320.00 acres.

The San Juan 27-4 Unit #126 well, located 1680' from the South Line and 1190' from the West Line of Section 20, Township 27 North, Range 4 West, N.M.P.M., was spudded on October 21, 1974, and completed on January 16, 1975, in the Pictured Cliffs and Mesaverde Formations at a total depth of 6163'. The Pictured Cliffs Formation at the intervals between 3752'-3760', 3770'-3776', 3784'-3790' and 3804'-3814' was treated with a sand-water fracturing process on November 30, 1974. The well was shut-in on January 9, 1975, and after being shut-in for seven (7) days, the well was tested on January 16, 1975, and following a three (3) hour blow-down period, the Pictured Cliffs Formation gauged 1235 MCF/D through a 3/4" choke and 1250 MCF/D by the calculated absolute open-flow method, with an SIPC of 1055 psia. The spacing unit for this well is described as the W/2 of Section 20, Township 27 North, Range 4 West, containing 320.00 acres.

Regional Oil and Gas Supervisor
Commission of Public Lands
Oil Conservation Commission
December 2, 1976
Page Three

In addition, the completion of Wells Nos. 74 and 126 create two intervening drilling blocks as defined in Section 11(a) of the Unit Agreement, described as the E/2 of Section 8 and the E/2 of Section 19, which are also admitted to the Pictured Cliffs Participating Area. Under the terms of the Unit Agreement, a Pictured Cliffs well must be commenced on each of these locations within one year from the effective date of this Expansion.

Attached is Schedule XV showing the Fourteenth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 27-4 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, the Fourteenth Expanded Participating Area will become effective as of February 1, 1975.

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

Yours very truly,



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

JRP:DW:nm
Enclosures
SJ 27-4, 4.1

cc: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
Working Interest Owners

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XV
CORRECTED FOURTEENTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 27-4 UNIT AREA

IAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 079527	T-27-N, R-4-W	1280.00	TRACT 2			
	Sec. 26: A11		Royalty;	12.50%	12.50%	11.934142%
	Sec. 36: A11		Working Interest:			
			El Paso Natural Gas Co.;	83.75%	83.75%	
			ORRI;	3.75%	3.75%	
			TOTAL	100.00%	100.00%	
SF 080669	T-27-N, R-4-W	1440.35	TRACT 5			
	Sec. 17: E/2		Royalty;	12.50%	12.50%	13.429173%
	Sec. 19: Lot 1, E/2		Working Interest:			
	NW/4, NE/4 SW/4, E/2		El Paso Natural Gas Co.;	82.50%	82.50%	
	Sec. 20: A11		ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
SF 080670	T-27-N, R-4-W	2564.72	TRACT 6			
	Sec. 29: A11		Royalty;	12.50%	12.50%	23.912292%
	Sec. 30: Lots 1,2,3,4,		Working Interest:			
	E/2 W/2, E/2 (A11)		El Paso Natural Gas Company;	82.50%	82.50%	
	Sec. 31: Lots 1,2,3,4,		ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
SF 080672	T-27-N, R-4-W	640.00	TRACT 9			
	Sec. 24: A11		Royalty;	12.50%	12.50%	5.967071%
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

Effective 2-1-75

SCHEDULE XV

WELL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080673	T-27-N, R-4-W Sec. 5: Lots 1,2, S/2 NE/4, SE/4 Sec. 8: E/2	639.33				
			TRACT 10			5.960824%
			Royalty;	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
			TRACT 11			14.917678%
SF 080674	T-27-N, R-4-W Sec. 16: W/2 Sec. 21: A11 Sec. 22: A11	1,600.00				
			Royalty;	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
			TRACT 12			22.376517%
SF 080675	T-27-N, R-4-W Sec. 27: A11 Sec. 28: A11 Sec. 33: A11 Sec. 34: W/2, NE/4	2400.00				
			Royalty;	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
			TRACT 13			1.502303%
Fee	T-27-N, R-4-W Sec. 19: Lots 2,3,4, SE/4 SW/4	161.13				
			Royalty;	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

Effective 2-1-75

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Sections 16, 34: W/2

Sections 19, 20, 21, 22, 24, 26, 27, 28, 29, 30, 31, 32, 33, 36: All

Sections 5, 8, 17: E/2

Section 34: NE/4

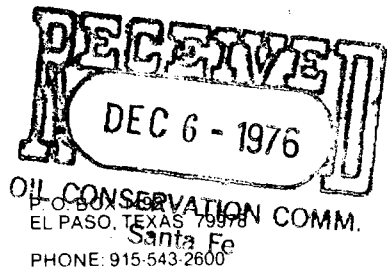
Total number of acres in Participating Area: 10,725.53

Percent of Basic Royalty Committed: 100%

Percent of Working Interest Committed: 100%

Percent of ORRI Committed: 100%

554



El Paso NATURAL GAS
COMPANY

December 2, 1976

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 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
CORRECTED FIFTEENTH EXPANDED
PARTICIPATING AREA - Pictured
Cliffs Formation - Effective
November 1, 1976

Gentlemen:

In response to a letter from the United States Geological Survey dated November 29, 1976 returning unapproved our Fifteenth Expansion for the San Juan 27-4 Pictured Cliffs Participating Area for the reason that an intervening drilling block was omitted from the Fourteenth Expansion, thus making the schedule for the Fifteenth Expansion incorrect, El Paso hereby submits our corrected Fifteenth Expansion for the San Juan 27-4 Unit Pictured Cliffs Participating Area.

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054 approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation has been completed upon acreage committed to the unit. The Participating Area for the Pictured Cliffs Formation is expanded accordingly to include the well that follows:

CORRECTED FIFTEENTH EXPANDED PARTICIPATING AREA - EFFECTIVE 11-1-76

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
T-27-N, R-4-W		
Section 8: W/2	320.00	S.J. 27-4 #124
Section 17: W/2	320.00	Intervening drilling block
	640.00	

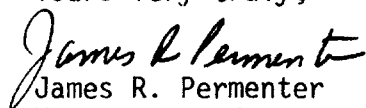
The San Juan 27-4 Unit #124 well, located 1850' from the South Line and 1690' from the West Line of Section 8, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 8, 1976, and completed on October 18, 1976, in the Pictured Cliffs Formation at a total depth of 6170'. The Pictured Cliffs Formation at the intervals 3585', 3588', 3591', 3616', 3620', 3623', 3643', and 3656' was treated with a sand-water fracturing process on September 15, 1976. The well was shut-in on September 21, 1976, and after being shut-in for twenty (20) days, the well was tested on October 11, 1976, and following a three (3) hour blow-down period, the Pictured Cliffs Formation gauged 1359 MCF/D through a 3/4" choke and 1376 MCF/D by the calculated absolute open-flow method, with an SIPC of 1068 psia and an SIPT of 1068 psia. The spacing unit for this well is described as the W/2 of Section 8, Township 27 North, Range 4 West, containing 320.00 acres.

In addition, the completion of well #124 creates one intervening drilling block as defined in Section 11(a) of the Unit Agreement, described as the W/2 of Section 17, which is also admitted to the Pictured Cliffs Participating Area. Under the terms of the Unit Agreement, a Pictured Cliffs well must be commenced within one year from November 1, 1976, the effective date of this Expansion.

Attached is Schedule XVI showing the Corrected Fifteenth Expanded Participating Area for the Pictured Cliffs Formation of the San Juan 27-4 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, the Fifteenth Expanded Participating Area will become effective as of November 1, 1976.

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

Yours very truly,



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

JRP:DW:nm
Enclosures
SJ 27-4, 4.1

cc: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
Working Interest Owners

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XVI
CORRECTED FIFTEENTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION
SAN JUAN 27-4 UNIT AREA

AL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 079527	T-27-N, R-4-W	1280.00	TRACT 2			
	Sec. 26: A11		Royalty;	12.50%	12.50%	11.262123%
	Sec. 36: A11		Working Interest:			
			El Paso Natural Gas Co.;	83.75%	83.75%	
			ORRI;	3.75%	3.75%	
		TOTAL	100.00%	100.00%		
SF 080669	T-27-N, R-4-W	1680.35	TRACT 5			
	Sec. 17: E/2,NW/4, E/2 SW/4		Royalty;	12.50%	12.50%	14.784616%
	Sec. 19: Lot 1, E/2		Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
	Sec. 20: A11		ORRI;	5.00%	5.00%	
		TOTAL	100.00%	100.00%		
SF 080670	T-27-N, R-4-W	2564.72	TRACT 6			
	Sec. 29: A11		Royalty;	12.50%	12.50%	22.565776%
	Sec. 30: Lots 1,2,3,4, E/2 W/2, E/2 (A11)		Working Interest:			
			El Paso Natural Gas Company;	82.50%	82.50%	
	Sec. 31: Lots 1,2,3,4, E/2 W/2, E/2 (A11)		ORRI;	5.00%	5.00%	
Sec. 32: A11		TOTAL	100.00%	100.00%		
SF 080672	T-27-N, R-4-W	640.00	TRACT 9			
	Sec. 24: A11		Royalty;	12.50%	12.50%	5.631062%
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
		TOTAL	100.00%	100.00%		

Effective 11-1-76

SCHEDULE XVI

IAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080673	T-27-N, R-4-W Sec. 5: Lots 1,2, S/2 NE/4, SE/4 Sec. 8: A11	959.33	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	<u>8.440698%</u>
			<u>TRACT 10</u>			
			TOTAL			
SF 080674	T-27-N, R-4-W Sec. 16: W/2 Sec. 21: A11 Sec. 22: A11	1,600.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	<u>14.077654%</u>
			<u>TRACT 11</u>			
			TOTAL			
SF 080675	T-27-N, R-4-W Sec. 27: A11 Sec. 28: A11 Sec. 33: A11 Sec. 34: W/2, NE/4	2400.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	<u>21.116481%</u>
			<u>TRACT 12</u>			
			TOTAL			
Fee	T-27-N, R-4-W Sec. 19: Lots 2,3,4, SE/4 SW/4 Sec. 17: W/2 SW/4	241.13	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	<u>2.121590%</u>
			<u>TRACT 13</u>			
			TOTAL			

Effective 11-1-76

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Sections 16, 34: W/2

Sections 8, 17, 19, 20, 21, 22, 24, 26, 27, 28, 29, 30, 31, 32, 33, 36: All

Section 5: E/2

Section 34: NE/4

Total number of acres in Participating Area: 11,365.53

Percent of Basic Royalty Committed: 100%

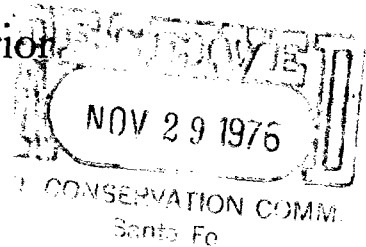
Percent of Working Interest Committed: 100%

Percent of ORRI Committed: 100%



United States Department of the Interior

GEOLOGICAL SURVEY
Conservation Division
Western National Bank Building
505 Marquette, N.W., Room 815
Albuquerque, New Mexico 87102



NOV 29 1976

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

Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
Pictured Cliffs Participating Area

Gentlemen:

We are returning herewith unaccepted 5 copies of the **FIFTEENTH EXPANDED PARTICIPATING AREA - Pictured Cliffs Formation** Effective November 1, 1976 submitted to this office dated November 19, 1976. This participating area revision requires correction due to an oversight in the **FOURTEENTH EXPANDED PARTICIPATING AREA** revision effective February 1, 1975 which also requires correction.

In accordance with section 11(a) of the Unit Agreement, the intervening drilling block described as the **N $\frac{1}{2}$ Sec. 8, T.27N., R.4W.** should have been admitted to the Pictured Cliffs Participating Area with the inclusion of the **N $\frac{1}{2}$ Sec. 17** in the **FOURTEENTH EXPANDED PARTICIPATING AREA**. This omission was inadvertently overlooked at that time. A corrected **FOURTEENTH EXPANDED PARTICIPATING AREA** including the **N $\frac{1}{2}$ Sec. 8** should be submitted and made effective February 1, 1975. The time within which to commence a well on this intervening drilling block should be one year from the date of such correction.

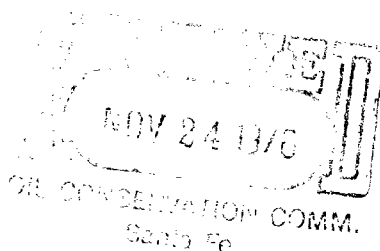
Sincerely yours,
(ORIG. SCD.) JAMES W. SUTHERLAND
Area Oil and Gas Supervisor

cc:

NMOCC, Santa Fe ← This Copy for
Comm. Public Lands, Santa Fe

554

El Paso NATURAL GAS
COMPANY



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

November 22, 1976

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 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
NINETEENTH & TWENTIETH EXPANDED
PARTICIPATING AREA, Mesaverde
Formation, Effective October 1,
1976 and November 1, 1976,
respectively

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date indicated below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include the following wells and acreage:

NINETEENTH EXPANDED PARTICIPATING AREA - EFFECTIVE 10-1-76

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
<u>T-27-N, R-4-W</u>		
Section 8: E/2	320.00	*
Section 17: E/2	320.00	SJ 27-4 #73
Section 19: E/2	320.00	SJ 27-4 #105
	<u>960.00</u>	

*Intervening drilling block caused by the completion of well #73.

Pertinent data on these wells is as follows:

The San Juan 27-4 Unit #73 well, located 1720' from the North Line and 1190' from the East Line of Section 17, Township 27 North, Range 4 West, N.M.P.M., was spudded on June 14, 1976 and completed on September 24, 1976, in the Mesaverde Formation at a total depth of 6396'. The Mesaverde Formation at the intervals 5484', 5496', 5504', 5535', 5544', 5572', 5599', 5609', 5980', 5989', 5998', 6020', 6030', 6046', 6056', 6080', 6090', 6104', 6168', 6189', 6204', and 6231' was treated with sand-water fracturing process on September 5, 1976. The well was shut-in on September 8, 1976, and after being shut-in for nine (9) days the well was tested on September 17, 1976, and following a three (3) hour blow-down period, the Mesaverde Formation gauged 2098 MCFGPD through a 3/4" choke and 2269 MCFGPD by the calculated absolute open-flow method, with an SIPT of 1090 psia. The spacing unit for this well is described as the E/2 of Section 17, Township 27 North, Range 4 West, containing 320.00 acres.

The San Juan 27-4 Unit #105 well, located 1500' from the North Line and 1450' from the East Line of Section 19, Township 27 North, Range 4 West, N.M.P.M., was spudded on June 26, 1976 and completed on October 7, 1976, in the Mesaverde Formation at a total depth of 6348'. The Mesaverde Formation at the intervals 5396', 5460', 5494', 5513', 5518', 5535', 5873', 5879', 5899', 5905', 5912', 5950', 5959', 5967', 6007', 6021', 6097', 6119', 6205', and 6239' was treated with sand-water fracturing process on September 10, 1976. The well was shut-in on September 20, 1976, and after being shut-in for ten (10) days the well was tested on September 30, 1976, and following a three (3) hour blow-down period, the Mesaverde Formation gauged 3308 MCFGPD through a 3/4" choke and 4221 MCFGPD by the calculated absolute open-flow method, with an SIPT of 1084 psia. The spacing unit for this well is described as the E/2 of Section 19, Township 27 North, Range 4 West, containing 320.00 acres.

The completion of the San Juan 27-4 Unit #73 well in the Mesaverde Formation creates one (1) intervening drilling block described as the E/2 of Section 8, Township 27 North, Range 4 West, containing 320.00 acres. Under the terms of the Unit Agreement, this intervening drilling block is also admitted to the Mesaverde Participating Area, effective October 1, 1976, and a well must be commenced on this intervening drilling block by October 1, 1977.

Regional Oil and Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
November 22, 1976
Page Three

TWENTIETH EXPANDED PARTICIPATING AREA - EFFECTIVE 11-1-76

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
T-27-N, R-4-W		
Section 8: W/2	320.00	SJ 27-4 #124
Section 7: E/2	320.00	*
	<u>640.00</u>	

*Intervening drilling block caused by the completion of well #124.

Pertinent data on this well is as follows:

The San Juan 27-4 Unit #124 well, located 1850' from the South Line and 1690' from the West Line of Section 8, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 8, 1976, and completed on October 18, 1976, in the Mesaverde Formation at a total depth of 6170'. The Mesaverde Formation at the intervals 5268', 5285', 5342', 5347', 5371', 5383', 5896', 5747', 5754', 5759', 5771', 5776', 5816', 5825', 5838', 5868', 5884', 5970', 5978', 6010', 6065', 6093', and 6117' was treated with sand-water fracturing process on September 15, 1976. The well was shut-in on September 21, 1976, and after being shut-in for twenty-seven (27) days the well was tested on October 18, 1976, and following a three (3) hour blow-down period, the Mesaverde Formation gauged 4655 MCFGPD through a 3/4" choke and 7008 MCFGPD by the calculated absolute open-flow method, with an SIPT of 1115 psia. The spacing unit for this well is described as the W/2 of Section 8, Township 27 North, Range 4 West, containing 320.00 acres.

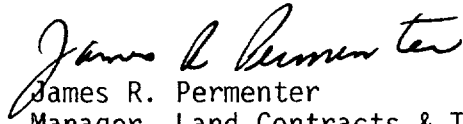
The completion of the San Juan 27-4 Unit #124 well in the Mesaverde Formation creates one (1) intervening drilling block described as the E/2 of Section 7, Township 27 North, Range 4 West, containing 320.00 acres. Under the terms of the Unit Agreement, this intervening drilling block is also admitted to the Mesaverde Participating Area, effective November 1, 1976 and a well must be commenced on the intervening drilling block by November 1, 1977.

Attached are Schedules XX and XXI showing the Nineteenth and Twentieth Expanded Participating Areas for the Mesaverde Formation of the San Juan 27-4 Unit Area. These describe the Expanded Participating Areas and show the percentage of unitized substances allocated to each unitized tract. Inasmuch as these need no official approval, no provision is made therefor, and in the absence of disapproval, the Nineteenth and Twentieth Expanded Participating Areas will become effective as of October 1, 1976 and November 1, 1976, respectively.

Regional Oil and Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
November 22, 1976
Page Four

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

Yours very truly,


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

JRP:DW:nm
Enclosure
SJ 27-4, 4.2

cc: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
Working Interest Owners

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XX
NINETEENTH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
013297	T-27-N, R-4-W Sec. 1: Lots 3,4, S/2 NW/4, SW/4	319.91	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>3.444355%</u>
				83.75%	83.75%	
				3.75%	3.75%	
				<u>100.00%</u>	<u>100.00%</u>	
079527	T-27-N, R-4-W Sec. 26: All Sec. 36: W/2	960.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>10.335973%</u>
				83.75%	83.75%	
				3.75%	3.75%	
				<u>100.00%</u>	<u>100.00%</u>	
080668	T-27-N, R-4-W Sec. 4: Lots 3,4, S/2 NW/4, SW/4	319.20	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>3.436711%</u>
				82.50%	82.50%	
				5.00%	5.00%	
				<u>100.00%</u>	<u>100.00%</u>	
080669	T-27-N, R-4-W Sec. 17: NW/4, E/2 SW/4, E/2 Sec. 18: Lots 1,2, E/2 NW/4, NE/4, S/2 SE/4 Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2 Sec. 20: All	2080.84	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>22.403652%</u>
				82.50%	82.50%	
				5.00%	5.00%	
				<u>100.00%</u>	<u>100.00%</u>	

SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
080670	T-27-N, R-4-W	1924.72	<u>TRACT 6</u> Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>20.722764%</u>
	Sec. 29: All			12.50%	12.50%	
	Sec. 30: All			82.50%	82.50%	
	Sec. 31: All			5.00%	5.00%	
080671-A	T-27-N, R-4-W	320.00	<u>TRACT 8</u> Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>3.445324%</u>
	Sec. 11: W/2			12.50%	12.50%	
				82.50%	82.50%	
				5.00%	5.00%	
080672	T-27-N, R-4-W	640.00	<u>TRACT 9</u> Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>6.890649%</u>
	Sec. 14: W/2			12.50%	12.50%	
	Sec. 23: W/2			82.50%	82.50%	
				5.00%	5.00%	
080673	T-27-N, R-4-W	1601.52	<u>TRACT 10</u> Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>17.242987%</u>
	Sec. 6: Lots 1,2,3,4,5, 6,7, SE/4 NW/4, S/2 NE/4, E/2 SW/4, SE/4			12.50%	12.50%	
	Sec. 7: Lots 1,2,3,4, E/2 W/2			82.50%	82.50%	
	Sec. 5: Lots 1,2, S/2 NE/4, SE/4			5.00%	5.00%	
Effective 10-1-76						

SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
F 080674	T-27-N, R-4-W Sec. 15: E/2	320.00	<u>TRACT 11</u>			<u>3.445324%</u>
			Royalty;	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	<u>5.00%</u>	<u>5.00%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
F 080675	T-27-N, R-4-W Sec. 33: W/2	320.00	<u>TRACT 12</u>			<u>3.445325%</u>
			Royalty;	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	<u>5.00%</u>	<u>5.00%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
F 080676	T-27-N, R-4-W Sec. 19: Lots 2,3,4, SE/4 SW/4 Sec. 18: N/2 SE/4 Sec. 17: W/2 SW/4	321.13	<u>TRACT 13</u>			<u>3.457491%</u>
			Royalty;	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.	82.50%	82.50%	
			ORRI;	<u>5.00%</u>	<u>5.00%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
F 080677	T-27-N, R-4-W Sec. 18: Lots 3,4, E/2 SW/4	160.63	<u>TRACT 14</u>			<u>1.729445%</u>
			Royalty;	12.50%	12.50%	
			Working Interest:			
			El Paso Natural Gas Co.;	85.00%	85.00%	
			ORRI;	<u>2.50%</u>	<u>2.50%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
Effective	10-1-76					

SCHEDULE XX

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

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.
Sections 1,4,7,11,14,23,33,36: W/2
Sections 5,8,15: E/2
Sections 6,17,18,19,20,26,29,30,31: A11

Total Number of Acres in Participating Area: 9,287.95

SCHEDULE XXI
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MESAVARDE FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 1</u>						
013297	T-27-N, R-4-W	319.91				
	Sec. 1: Lots 3,4, S/2 NW/4, SW/4		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 83.75% 3.75% <u>100.00%</u>	12.50% 83.75% 3.75% <u>100.00%</u>	<u>3.222317%</u>
	TOTAL					
	<u>TRACT 2</u>					
079527	T-27-N, R-4-W	960.00				
	Sec. 26: All Sec. 36: W/2		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 83.75% 3.75% <u>100.00%</u>	12.50% 83.75% 3.75% <u>100.00%</u>	<u>9.669670%</u>
	TOTAL					
	<u>TRACT 4</u>					
080668	T-27-N, R-4-W	319.20				
	Sec. 4: Lots 3,4, S/2 NW/4, SW/4		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	<u>3.215165%</u>
	TOTAL					
	<u>TRACT 5</u>					
080669	T-27-N, R-4-W	2080.84				
	Sec. 17: NW/4, E/2 SW/4, E/2 Sec. 18: Lots 1,2, E/2 NW/4, NE/4, S/2 SE/4 Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2 Sec. 20: All		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	<u>20.959413%</u>
	TOTAL					

SCHEDULE XXI

TRIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
080670	T-27-N, R-4-W	1924.72	<u>TRACT 6</u>			<u>19.386882%</u>
	Sec. 29: All		Royalty;	12.50%	12.50%	
	Sec. 30: All		Working Interest;			
	Sec. 31: All		E1 Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
080671-A	T-27-N, R-4-W	320.00	<u>TRACT 8</u>			<u>3.223223%</u>
	Sec. 11: W/2		Royalty;	12.50%	12.50%	
			Working Interest;			
			E1 Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
080672	T-27-N, R-4-W	640.00	<u>TRACT 9</u>			<u>6.446447%</u>
	Sec. 14: W/2		Royalty;	12.50%	12.50%	
	Sec. 23: W/2		Working Interest;			
			E1 Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
080673	T-27-N, R-4-W	2241.52	<u>TRACT 10</u>			<u>22.577874%</u>
	Sec. 6: Lots 1,2,3,4,5, 6,7, SE/4 NW/4, S/2 NE/4, E/2 SW/4, SE/4		Royalty;	12.50%	12.50%	
			Working Interest;			
	Sec. 7: Lots 1,2,3,4, E/2 W/2, E/2 (All)		E1 Paso Natural Gas Co.;	82.50%	82.50%	
	Sec. 5: Lots 1,2, S/2 NE/4, SE/4		ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

SCHEDULE XXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080674	T-27-N, R-4-W Sec. 15: E/2	320.00	<u>TRACT 11</u>			
			Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	3.223223%
				82.50%	82.50%	
			TOTAL	5.00% 100.00%	5.00% 100.00%	
SF 080675	T-27-N, R-4-W Sec. 33: W/2	320.00	<u>TRACT 12</u>			
			Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	3.223224%
				82.50%	82.50%	
			TOTAL	5.00% 100.00%	5.00% 100.00%	
SF 080676	T-27-N, R-4-W Sec. 19: Lots 2,3,4, SE/4 SW/4 Sec. 18: N/2 SE/4 Sec. 17: W/2 SW/4	321.13	<u>TRACT 13</u>			
			Royalty; Working Interest; El Paso Natural Gas Co. ORRI;	12.50%	12.50%	3.234605%
				82.50%	82.50%	
			TOTAL	5.00% 100.00%	5.00% 100.00%	
SF 080677	T-27-N, R-4-W Sec. 18: Lots 3,4, E/2 SW/4	160.63	<u>TRACT 14</u>			
			Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	1.617957%
				85.00%	85.00%	
			TOTAL	2.50% 100.00%	2.50% 100.00%	

Effective 11-1-76

SCHEDULE XXI

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

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.
Sections 1,4,11,14,23,33,36: W/2
Sections 5,15: E/2
Sections 6,7,8,17,18,19,20,26,29,30,31: A11
Total Number of Acres in Participating Area: 9,927.95



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

November 22, 1976

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 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
NINETEENTH & TWENTIETH EXPANDED
PARTICIPATING AREA, Mesaverde
Formation, Effective October 1,
1976 and November 1, 1976,
respectively

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement, #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the date indicated below that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this unit. The Participating Area for the Mesaverde Formation is expanded accordingly to include the following wells and acreage:

NINETEENTH EXPANDED PARTICIPATING AREA - EFFECTIVE 10-1-76

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
<u>T-27-N, R-4-W</u>		
Section 8: E/2	320.00	*
Section 17: E/2	320.00	SJ 27-4 #73
Section 19: E/2	320.00	SJ 27-4 #105
	<u>960.00</u>	

*Intervening drilling block caused by the completion of well #73.

Pertinent data on these wells is as follows:

The San Juan 27-4 Unit #73 well, located 1720' from the North Line and 1190' from the East Line of Section 17, Township 27 North, Range 4 West, N.M.P.M., was spudded on June 14, 1976 and completed on September 24, 1976, in the Mesaverde Formation at a total depth of 6396'. The Mesaverde Formation at the intervals 5484', 5496', 5504', 5535', 5544', 5572', 5599', 5609', 5980', 5989', 5998', 6020', 6030', 6046', 6056', 6080', 6090', 6104', 6168', 6189', 6204', and 6231' was treated with sand-water fracturing process on September 5, 1976. The well was shut-in on September 8, 1976, and after being shut-in for nine (9) days the well was tested on September 17, 1976, and following a three (3) hour blow-down period, the Mesaverde Formation gauged 2098 MCFGPD through a 3/4" choke and 2269 MCFGPD by the calculated absolute open-flow method, with an SIPT of 1090 psia. The spacing unit for this well is described as the E/2 of Section 17, Township 27 North, Range 4 West, containing 320.00 acres.

The San Juan 27-4 Unit #105 well, located 1500' from the North Line and 1450' from the East Line of Section 19, Township 27 North, Range 4 West, N.M.P.M., was spudded on June 26, 1976 and completed on October 7, 1976, in the Mesaverde Formation at a total depth of 6348'. The Mesaverde Formation at the intervals 5396', 5460', 5494', 5513', 5518', 5535', 5873', 5879', 5899', 5905', 5912', 5950', 5959', 5967', 6007', 6021', 6097', 6119', 6205', and 6239' was treated with sand-water fracturing process on September 10, 1976. The well was shut-in on September 20, 1976, and after being shut-in for ten (10) days the well was tested on September 30, 1976, and following a three (3) hour blow-down period, the Mesaverde Formation gauged 3308 MCFGPD through a 3/4" choke and 4221 MCFGPD by the calculated absolute open-flow method, with an SIPT of 1084 psia. The spacing unit for this well is described as the E/2 of Section 19, Township 27 North, Range 4 West, containing 320.00 acres.

The completion of the San Juan 27-4 Unit #73 well in the Mesaverde Formation creates one (1) intervening drilling block described as the E/2 of Section 8, Township 27 North, Range 4 West, containing 320.00 acres. Under the terms of the Unit Agreement, this intervening drilling block is also admitted to the Mesaverde Participating Area, effective October 1, 1976, and a well must be commenced on this intervening drilling block by October 1, 1977.

TWENTIETH EXPANDED PARTICIPATING AREA - EFFECTIVE 11-1-76

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
T-27-N, R-4-W		
Section 8: W/2	320.00	SJ 27-4 #124
Section 7: E/2	320.00	*
	640.00	

*Intervening drilling block caused by the completion of well #124.

Pertinent data on this well is as follows:

The San Juan 27-4 Unit #124 well, located 1850' from the South Line and 1690' from the West Line of Section 8, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 8, 1976, and completed on October 18, 1976, in the Mesaverde Formation at a total depth of 6170'. The Mesaverde Formation at the intervals 5268', 5285', 5342', 5347', 5371', 5383', 5896', 5747', 5754', 5759', 5771', 5776', 5816', 5825', 5838', 5868', 5884', 5970', 5978', 6010', 6065', 6093', and 6117' was treated with sand-water fracturing process on September 15, 1976. The well was shut-in on September 21, 1976, and after being shut-in for twenty-seven (27) days the well was tested on October 18, 1976, and following a three (3) hour blow-down period, the Mesaverde Formation gauged 4655 MCFGPD through a 3/4" choke and 7008 MCFGPD by the calculated absolute open-flow method, with an SIPT of 1115 psia. The spacing unit for this well is described as the W/2 of Section 8, Township 27 North, Range 4 West, containing 320.00 acres.

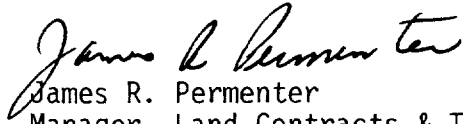
The completion of the San Juan 27-4 Unit #124 well in the Mesaverde Formation creates one (1) intervening drilling block described as the E/2 of Section 7, Township 27 North, Range 4 West, containing 320.00 acres. Under the terms of the Unit Agreement, this intervening drilling block is also admitted to the Mesaverde Participating Area, effective November 1, 1976 and a well must be commenced on the intervening drilling block by November 1, 1977.

Attached are Schedules XX and XXI showing the Nineteenth and Twentieth Expanded Participating Areas for the Mesaverde Formation of the San Juan 27-4 Unit Area. These describe the Expanded Participating Areas and show the percentage of unitized substances allocated to each unitized tract. Inasmuch as these need no official approval, no provision is made therefor, and in the absence of disapproval, the Nineteenth and Twentieth Expanded Participating Areas will become effective as of October 1, 1976 and November 1, 1976, respectively.

Regional Oil and Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
November 22, 1976
Page Four

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

Yours very truly,


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

JRP:DW:nm
Enclosure
SJ 27-4, 4.2

cc: Mr. Antonio Martinez

SAN JUAN 27-4 UNIT
Working Interest Owners

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XX
NINETEENTH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
013297	<u>TRACT 1</u>					<u>3.444355%</u>
	T-27-N, R-4-W	319.91	Royalty;	12.50%	12.50%	
	Sec. 1: Lots 3,4, S/2 NW/4, SW/4		Working Interest;			
			El Paso Natural Gas Co.;	83.75%	83.75%	
			ORRI;	<u>3.75%</u>	<u>3.75%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
079527	<u>TRACT 2</u>					<u>10.335973%</u>
	T-27-N, R-4-W	960.00	Royalty;	12.50%	12.50%	
	Sec. 26: All		Working Interest;			
	Sec. 36: W/2		El Paso Natural Gas Co.;	83.75%	83.75%	
			ORRI;	<u>3.75%</u>	<u>3.75%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
080668	<u>TRACT 4</u>					<u>3.436711%</u>
	T-27-N, R-4-W	319.20	Royalty;	12.50%	12.50%	
	Sec. 4: Lots 3,4, S/2 NW/4, SW/4		Working Interest;			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	<u>5.00%</u>	<u>5.00%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
080669	<u>TRACT 5</u>					<u>22.403652%</u>
	T-27-N, R-4-W	2080.84	Royalty;	12.50%	12.50%	
	Sec. 17: NW/4, E/2 SW/4, E/2		Working Interest;			
	Sec. 18: Lots 1,2, E/2 NW/4, NE/4, S/2 SE/4		El Paso Natural Gas Co.;	82.50%	82.50%	
	Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2		ORRI;	<u>5.00%</u>	<u>5.00%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	

SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080670	T-27-N, R-4-W	1924.72	TRACT 6 Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>20.722764%</u>
	Sec. 29: All					
	Sec. 30: All			82.50%	82.50%	
	Sec. 31: All			5.00%	5.00%	
				<u>100.00%</u>	<u>100.00%</u>	
SF 080671-A	T-27-N, R-4-W	320.00	TRACT 8 Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>3.445324%</u>
	Sec. 11: W/2					
				82.50%	82.50%	
				5.00%	5.00%	
				<u>100.00%</u>	<u>100.00%</u>	
SF 080672	T-27-N, R-4-W	640.00	TRACT 9 Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>6.890649%</u>
	Sec. 14: W/2					
	Sec. 23: W/2			82.50%	82.50%	
				5.00%	5.00%	
				<u>100.00%</u>	<u>100.00%</u>	
SF 080673	T-27-N, R-4-W	1601.52	TRACT 10 Royalty; Working Interest; El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>17.242987%</u>
	Sec. 6: Lots 1,2,3,4,5, 6,7, SE/4 NW/4, S/2 NE/4, E/2 SW/4, SE/4					
	Sec. 7: Lots 1,2,3,4, E/2 W/2					
	Sec. 5: Lots 1,2, S/2 NE/4, SE/4			82.50%	82.50%	
	Sec. 8: E/2			5.00%	5.00%	

Effective

10-1-76

SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080674	T-27-N, R-4-W Sec. 15: E/2	320.00	<u>TRACT 11</u>			<u>3.445324%</u>
			Royalty;	12.50%	12.50%	
			Working Interest:			
			E1 Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
SF 080675	T-27-N, R-4-W Sec. 33: W/2	320.00	<u>TRACT 12</u>			<u>3.445325%</u>
			Royalty;	12.50%	12.50%	
			Working Interest:			
			E1 Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
Free	T-27-N, R-4-W Sec. 19: Lots 2,3,4, SE/4 SW/4 Sec. 18: N/2 SE/4 Sec. 17: W/2 SW/4	321.13	<u>TRACT 13</u>			<u>3.457491%</u>
			Royalty;	12.50%	12.50%	
			Working Interest:			
			E1 Paso Natural Gas Co.	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
Free	T-27-N, R-4-W Sec. 18: Lots 3,4, E/2 SW/4	160.63	<u>TRACT 14</u>			<u>1.729445%</u>
			Royalty;	12.50%	12.50%	
			Working Interest:			
			E1 Paso Natural Gas Co.;	85.00%	85.00%	
			ORRI;	2.50%	2.50%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	

Effective 10-1-76

SCHEDULE XX

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

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.
Sections 1,4,7,11,14,23,33,36: W/2
Sections 5,8,15: E/2
Sections 6,17,18,19,20,26,29,30,31: A11

Total Number of Acres in Participating Area: 9,287.95

SCHEDULE XXI
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
013297	T-27-N, R-4-W Sec. 1: Lots 3,4, S/2 NW/4, SW/4	319.91	Royalty;	12.50%	12.50%	<u>3.222317%</u>
			Working Interest;			
			El Paso Natural Gas Co.;	83.75%	83.75%	
			ORRI;	<u>3.75%</u>	<u>3.75%</u>	
	TOTAL			<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 1</u>						
079527	T-27-N, R-4-W Sec. 26: All Sec. 36: W/2	960.00	Royalty;	12.50%	12.50%	<u>9.669670%</u>
			Working Interest;			
			El Paso Natural Gas Co.;	83.75%	83.75%	
			ORRI;	<u>3.75%</u>	<u>3.75%</u>	
	TOTAL			<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 2</u>						
080668	T-27-N, R-4-W Sec. 4: Lots 3,4, S/2 NW/4, SW/4	319.20	Royalty;	12.50%	12.50%	<u>3.215165%</u>
			Working Interest;			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	<u>5.00%</u>	<u>5.00%</u>	
	TOTAL			<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 4</u>						
080669	T-27-N, R-4-W Sec. 17: NW/4, E/2 SW/4, E/2 Sec. 18: Lots 1,2, E/2 NW/4, NE/4, S/2 SE/4 Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2 Sec. 20: All	2080.84	Royalty;	12.50%	12.50%	<u>20.959413%</u>
			Working Interest;			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	<u>5.00%</u>	<u>5.00%</u>	
	TOTAL			<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 5</u>						

SCHEDULE XXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
080670	T-27-N, R-4-W	1924.72	TRACT 6 Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>19.386882%</u>
	Sec. 29: A11			82.50%	82.50%	
	Sec. 30: A11			5.00%	5.00%	
	Sec. 31: A11			<u>100.00%</u>	<u>100.00%</u>	
080671-A	T-27-N, R-4-W	320.00	TRACT 8 Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>3.223223%</u>
	Sec. 11: W/2			82.50%	82.50%	
				5.00%	5.00%	
				<u>100.00%</u>	<u>100.00%</u>	
080672	T-27-N, R-4-W	640.00	TRACT 9 Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>6.446447%</u>
	Sec. 14: W/2			82.50%	82.50%	
	Sec. 23: W/2			5.00%	5.00%	
				<u>100.00%</u>	<u>100.00%</u>	
080673	T-27-N, R-4-W	2241.52	TRACT 10 Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	<u>22.577874%</u>
	Sec. 6: Lots 1,2,3,4,5, 6,7, SE/4 NW/4, S/2 NE/4, E/2 SW/4, SE/4			82.50%	82.50%	
	Sec. 7: Lots 1,2,3,4, E/2 W/2,E/2 (A11)			5.00%	5.00%	
	Sec. 5: Lots 1,2, S/2 NE/4, SE/4			<u>100.00%</u>	<u>100.00%</u>	
	Sec. 8: A11					

Effective 11-1-76

SCHEDULE XXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080674	T-27-N, R-4-W Sec. 15: E/2	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	<u>3.223223%</u>
				82.50%	82.50%	
				5.00%	5.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
SF 080675	T-27-N, R-4-W Sec. 33: W/2	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	<u>3.223224%</u>
				82.50%	82.50%	
				5.00%	5.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
SF 080676	T-27-N, R-4-W Sec. 19: Lots 2,3,4, SE/4 SW/4 Sec. 18: N/2 SE/4 Sec. 17: W/2 SW/4	321.13	Royalty; Working Interest; El Paso Natural Gas Co. ORRI;	12.50%	12.50%	<u>3.234605%</u>
				82.50%	82.50%	
				5.00%	5.00%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
SF 080677	T-27-N, R-4-W Sec. 18: Lots 3,4, E/2 SW/4	160.63	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	<u>1.617957%</u>
				85.00%	85.00%	
				2.50%	2.50%	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	

Effective 11-1-76

SCHEDULE XXI

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

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

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.

Sections 1,4,11,14,23,33,36:

Sections 5,15:

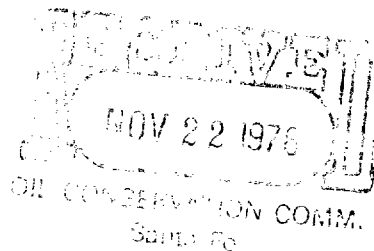
Sections 6,7,8,17,18,19,20,26,29,30,31:

W/2
E/2
A11

Total Number of Acres in Participating Area:

9,927.95

El Paso NATURAL GAS
COMPANY



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

November 19, 1976

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

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

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

Re: San Juan 27-4 Unit
#14-08-001-1054, Rio Arriba
County, New Mexico
Pictured Cliffs Formation
NOTICE OF COMPLETION OF
ADDITIONAL WELLS

Gentlemen:

Pursuant to Section 11(a) of the San Juan 27-4 Unit Agreement #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that eight (8) 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 27-4 Unit #90 well, located 1585' from the North Line and 755' from the East Line of Section 31, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 23, 1976, and completed on October 11, 1976, in the Pictured Cliffs Formation at a total depth of 3722'. The Pictured Cliffs Formation at the intervals 3622', 3657', 3666', 3675', and 3680' was treated with a sand-water fracturing process on September 20, 1976. The well was shut-in on September 30, 1976, and after being shut-in for eleven (11) days, the well was tested on October 11, 1976 using the Pitot tube method with an after frac gauge of 2799 MCF/D, with an SIPC of 1010 psia. The spacing unit for this well is described as the E/2 of Section 31, Township 27 North, Range 4 West, containing 320.00 acres.

Regional Oil and Gas Supervisor
Oil Conservation Commission
Commissioner of Public Lands
November 19, 1976
Page Two

The above described spacing unit was included in the San Juan 27-4 Unit Initial Expanded Participating Area of the Pictured Cliffs Formation effective September 4, 1956, as an intervening drilling block as a result of the completion of the San Juan 27-4 Unit Nos. 6 and 8 wells. Therefore, the Pictured Cliffs Participating Area is not enlarged.

The San Juan 27-4 Unit #115 well, located 1450' from the North Line and 1840' from the West Line of Section 32, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 17, 1976, and completed on October 11, 1976, in the Pictured Cliffs Formation at a total depth of 3737'. The Pictured Cliffs Formation at the intervals 3633', 3637', 3643', 3671', 3674', 3685', and 3688' was treated with a sand-water fracturing process on September 20, 1976. The well was shut-in on September 30, 1976, and after being shut-in for eleven (11) days, the well was tested on October 11, 1976 using the Pitot tube method with an after frac gauge of 1503 MCF/D, with an SIPC of 1057 psia. The spacing unit for this well is described as the W/2 of Section 32, Township 27 North, Range 4 West, containing 320.00 acres.

The above described spacing unit was included in the San Juan 27-4 Unit Initial Expanded Participating Area of the Pictured Cliffs Formation effective September 4, 1956, as a result of the completion of the San Juan 27-4 Unit #8 well. Therefore, the Pictured Cliffs Participating Area is not enlarged.

The San Juan 27-4 Unit #116 well, located 1680' from the South Line and 840' from the East Line of Section 32, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 16, 1976, and completed on October 12, 1976, in the Pictured Cliffs Formation at a total depth of 3885'. The Pictured Cliffs Formation at the intervals 3757', 3767', 3775', 3797', 3805', and 3818' was treated with a sand-water fracturing process on September 20, 1976. The well was shut-in on October 5, 1976, and after being shut-in for seven (7) days, the well was tested on October 12, 1976 using the Pitot tube method with an after frac gauge of 1200 MCF/D, with an SIPC of 1046 psia. The spacing unit for this well is described as the E/2 of Section 32, Township 27 North, Range 4 West, containing 320.00 acres.

The above described spacing unit was included in the San Juan 27-4 Unit Initial Expanded Participating Area of the Pictured Cliffs Formation effective September 4, 1956, as an intervening drilling block as a result of the completion of the San Juan 27-4 Unit Nos. 8 and 9 wells. Therefore, the Pictured Cliffs Participating Area is not enlarged.

The San Juan 27-4 Unit #114 well, located 1475' from the South Line and 950' from the East line of Section 29, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 21, 1976, and completed on November 10, 1976, in the Pictured Cliffs Formation at a total depth of 4196'. The Pictured Cliffs Formation at the intervals 4075', 4090', 4097', 4109', 4115', 4134', and 4141' was treated with a sand-water fracturing process on October 8, 1976. The well was shut-in on November 3, 1976, and after being shut-in for seven (7) days, the well was tested on November 10, 1976 using the Pitot tube method with an after frac gauge of 1160 MCF/D, with an SIPC of 1028 psia. The spacing unit for this well is described as the E/2 of Section 29, Township 27 North, Range 4 West, containing 320.00 acres.

The above described spacing unit was included in the San Juan 27-4 Unit Second Expanded Participating Area of the Pictured Cliffs Formation effective March 1, 1958, as an intervening drilling block as a result of the completion of the San Juan 27-4 Unit #13 well. Therefore, the Pictured Cliffs Participating Area is not enlarged.

The San Juan 27-4 Unit #113 well, located 840' from the North Line and 940' from the West Line of Section 29, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 20, 1976, and completed on November 3, 1976, in the Pictured Cliffs Formation at a total depth of 4153'. The Pictured Cliffs Formation at the intervals 4026', 4033', 4047', 4058', 4065', 4072', and 4100' was treated with a sand-water fracturing process on October 8, 1976. The well was shut-in on October 26, 1976, and after being shut-in for eight (8) days, the well was tested on November 3, 1976 using the Pitot tube method with an after frac gauge of 3672 MCF/D, with an SIPC of 1004 psia. The spacing unit for this well is described as the W/2 of Section 29, Township 27 North, Range 4 West, containing 320.00 acres.

The above described spacing unit was included in the San Juan 27-4 Unit Third Expanded Participating Area of the Pictured Cliffs Formation effective September 1, 1958, as a result of the completion of the San Juan 27-4 Unit #17 well. Therefore, the Pictured Cliffs Participating Area is not enlarged.

The San Juan 27-4 Unit #119 well, located 870' from the North Line and 1715' from the West Line of Section 34, Township 27 North, Range 4 West, N.M.P.M., was spudded on July 22, 1976, and completed on November 3, 1976, in the Pictured Cliffs Formation at a total depth of 4143'. The Pictured Cliffs Formation at the intervals 4014', 4026', 4040', 4048', 4055', 4062', 4069', and 4088' was treated with a sand-water fracturing process on October 15, 1976. The well was shut-in on October 26, 1976, and after being shut-in for eight (8) days, the well was tested

on November 3, 1976 using the Pitot tube method with an after frac gauge of 2310 MCF/D, with an SIPC of 1022 psia. The spacing unit for this well is described as the W/2 of Section 34, Township 27 North, Range 4 West, containing 320.00 acres.

The above described spacing unit was included in the San Juan 27-4 Unit Tenth Expanded Participating Area of the Pictured Cliffs Formation effective August 1, 1974, as an intervening drilling block as a result of the completion of the San Juan 27-4 Unit #92 well. Therefore, the Pictured Cliffs Participating Area is not enlarged.

The San Juan 27-4 Unit #73 well, located 1720' from the North Line and 1190' from the East Line of Section 17, Township 27 North, Range 4 West, N.M.P.M., was spudded on June 14, 1976, and completed on September 24, 1976, in the Pictured Cliffs Formation at a total depth of 6396'. The Pictured Cliffs Formation at the intervals 3800', 3822', 3830', 3838', 3863', 3869', and 3881' was treated with a sand-water fracturing process on September 5, 1976. The well was shut-in on September 8, 1976, and after being shut-in for sixteen (16) days, the well was tested on September 24, 1976 and following a three (3) hour blow-down period, the Pictured Cliffs Formation gauged 1621 MCF/D through a 3/4" choke and 2405 MCF/D by the calculated absolute open-flow method, with an SIPT of 1052 psia and a SIPC of 1057 psia. The spacing unit for this well is described as the E/2 of Section 17, Township 27 North, Range 4 West, containing 320.00 acres.

The above described spacing unit was included in the San Juan 27-4 Unit Fourteenth Expanded Participating Area of the Pictured Cliffs Formation effective February 1, 1975, as a result of the completion of the San Juan 27-4 Unit #74 well. Therefore, the Pictured Cliffs Participating Area is not enlarged.

The San Juan 27-4 Unit #105 well, located 1500' from the North Line and 1450' from the East Line of Section 19, Township 27 North, Range 4 West, N.M.P.M., was spudded on June 26, 1976, and completed on October 7, 1976, in the Pictured Cliffs Formation at a total depth of 6348'. The Pictured Cliffs Formation at the intervals 3715', 3747', 3751', 3758', 3762', 3774', 3787', and 3794' was treated with a sand-water fracturing process on September 10, 1976. The well was shut-in on September 20, 1976, and after being shut-in for seventeen (17) days, the well was tested on October 7, 1976 and following a three (3) hour blow-down period, the Pictured Cliffs Formation gauged 1732 MCF/D through a 3/4" choke and 1764 MCF/D by the calculated absolute open-flow method, with and SIPT of 1037 psia and a SIPC of 1037 psia. The spacing unit for this well is described as the E/2 of Section 19, Township 27 North, Range 4 West, containing 320.00 acres.

Regional Oil and Gas Supervisor
Oil Conservation Commission
Commissioner of Public Lands
November 19, 1976
Page Five

The above described spacing unit was included in the San Juan 27-4 Unit Fourteenth Expanded Participating Area of the Pictured Cliffs Formation effective February 1, 1975, as an intervening drilling block as a result of the completion of the San Juan 27-4 Unit #126 well. Therefore, the Pictured Cliffs Participating Area is not enlarged.

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

Yours very truly,

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

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

JRP:DW:nm
Enclosure
SJ 27-4, 4.1.1

cc: Mr. Antonio Martinez

Working Interest Owners
San Juan 27-4 Unit

Clifton Resources, Inc.

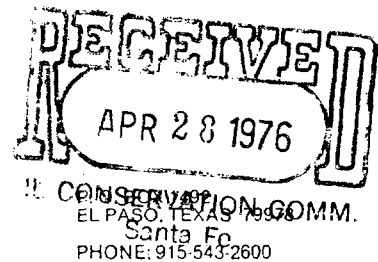
General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

El Paso NATURAL GAS
COMPANY



April 26, 1976

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 27-4 Unit
Thirteenth Expansion
Dakota Participating Area
Effective January 1, 1975
Rio Arriba County, New Mexico

Gentlemen:

The referenced expansion of the San Juan 27-4 Unit Dakota Participating Area was approved by the Regulatory Agencies on the following dates:

United States Geological Survey	4-22-76
Oil Conservation Commission	2-16-76

Copies of this notice are being sent to the working interest owners of the San Juan 27-4 Unit.

Yours very truly,

Don Wadsworth
Landman
Land Department
Energy Resource Development

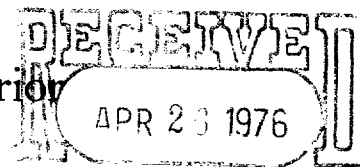
DW:nm
SJ 27-4, 5.0, 4.3



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201



CONSERVATION COMM.
Santa Fe

April 22, 1976

354

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

Gentlemen:

The thirteenth revision of the Dakota participating area for the San Juan 27-4 unit agreement, Rio Arriba County, New Mexico, was approved on April 22, 1976, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of January 1, 1975. The thirteenth revision adds 319.44 acres, more or less, described as lots 3, 4, S $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ sec. 3, T. 27N., R. 4W., N.M.P.M., and is based on the completion of unit well No. 94 in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 3 as a paying well pursuant to the terms of the unit agreement. Unit well No. 94 was tested on January 17, 1975 for a calculated absolute open flow potential of 1,349 MCF of gas per day from the Dakota interval 7,922 to 8,072 feet.

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

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:

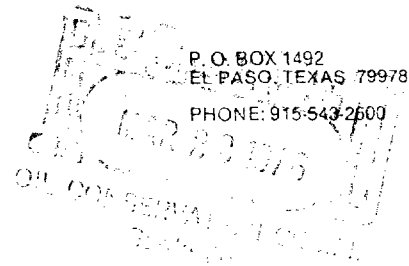
BLM, Santa Fe (w/cy appln.)

NMOCC, Santa Fe (ltr. only) ← This Copy for

Durango (w/cy appln.)

ARStall:dap

El Paso NATURAL GAS
COMPANY



March 18, 1976

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 27-4 Unit
Rio Arriba County, New Mexico
1976 DRILLING PROGRAM

Gentlemen:

The 1976 Drilling Program for the referenced unit was approved by the regulatory bodies on the following dates:

United States Geological Survey	March 15, 1976
Commissioner of Public Lands	N/A
Oil Conservation Commission	January 8, 1976

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

Yours very truly,

Don Wadsworth
Landman
Land Department
Energy Resource Development

DW:nm
SJ 27-4 Unit 3.0



554
United States Department of the Interior

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

March 15, 1976

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

Gentlemen:

Your 1976 plan of development, dated January 2, 1976, for the San Juan 27-4 unit area, Rio Arriba County, New Mexico, was received by this office on January 7, 1976. Such plan was not signed by El Paso Natural Gas Company, unit operator.

Such 1976 plan proposes the drilling of four Pictured Cliffs-Mesaverde wells and seven Pictured Cliffs wells in addition to any wells necessary to prevent drainage of unitized substances by wells not on unit lands. All specific wells in this plan have been carried forward from your previous plans.

Three copies of the 1976 plan are enclosed which have been approved on this date subject to like approval by the appropriate State official and the return of two copies of the plan, properly signed, to this office.

Sincerely yours,

W. C. S. S. S. CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

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

JAGillham:dap



United States Department of the Interior

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

February 17, 1976

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

554

Gentlemen:

Your letter of November 17, 1975, advises that as operator of the San Juan 27-4 unit, Rio Arriba County, New Mexico, you have determined that unit well No. 98 in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 10, T. 27 N., R. 4 W., N.M.P.M., lease Santa Fe 080668, is not capable of producing unitized substances in paying quantities from the Dakota formation.

Well No. 98 was tested January 24, 1975, for a calculated absolute open flow potential of 481 MCF of gas per day from the Dakota formation interval 7,886 to 8,068 feet.

This office concurs with your determination that the well is not capable of producing unitized substances in paying quantities from the Dakota formation under existing conditions. One surplus copy of the notice is attached.

Sincerely yours,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Farmington (w/cy notice)
BLM, Santa Fe (ltr. only)
Com of Pub. Lands Santa Fe, (ltr. only)
NMOCC, Santa Fe (ltr. only) ← This Copy for
Accounts

RDLindau:dap

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

554

Jim

February 12, 1976

C
O
P
Y

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

Attention: Mr. James R. Permenter

Re: Thirteenth Expanded Dakota
Participating Area, San
Juan 27-4 Unit, Rio Arriba
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Thirteenth Expanded Participating Area for the Dakota Formation for the San Juan 27-4 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey.

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

Very truly yours,

JOE D. RAMEY
Secretary-Director

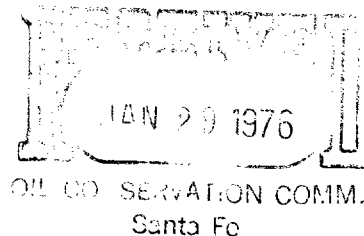
JDR/JEK/og

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

January 26, 1976

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

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



Re: San Juan 27-4 Unit #14-08-001-1054
Rio Arriba County, New Mexico
THIRTEENTH EXPANDED PARTICIPATING
AREA, Dakota Formation, Effective
January 1, 1975

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 27-4 Unit Agreement, #14-08-001-1054, approved September 3, 1953, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Thirteenth Expanded Participating Area for the Dakota Formation, to wit:

THIRTEENTH EXPANDED PARTICIPATING AREA - Effective January 1, 1975

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 27 North, Range 4 West, N.M.P.M.</u> Section 3: Lots 3,4, S/2 NW/4, SW/4	319.44

This proposed Thirteenth Expanded Participating Area for the Dakota Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the San Juan 27-4 Unit #94 well is capable of producing unitized substances in paying quantities from the Dakota Formation. This well is as follows:

The San Juan 27-4 Unit #94 well is located 454' from the South line and 950' from the West line of Section 3, Township 27 North, Range 4 West, N.M.P.M. This well was spudded on November 18, 1974, and completed on January 17, 1975, at a total depth of 8138'. The Dakota Formation at the intervals 7922', 7987', 8013', 8068', and 8072' was treated with a sand-water fracturing process on January 7, 1975. The Dakota Formation was shut-in on January 10, 1975, and after being shut-in for seven (7) days, the Dakota Formation was tested on January 17, 1975 and following a three (3) hour blow-down period gauged 1277 MCF/D through a 3/4" choke and 1349 MCF/D by the calculated absolute open-flow method, with an SIPC of 2251 psia and an SIPT of 989 psia. The spacing unit for this well is described as Lots 3, 4, S/2 NW/4, SW/4 Section 3, T-27-N, R-4-W, containing 319.44 acres, more or less.

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 Thirteenth Expanded Participating Area of the Dakota Formation within the San Juan 27-4 Unit.

EXHIBIT "B"

Geologic Report on the Thirteenth Expanded Participating Area of the Dakota Formation within the San Juan 27-4 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 27-4 Dakota Structure Map.
Figure No. 2: San Juan 27-4 Dakota Isopach Map.

EXHIBIT "D"

Table 1: Dakota production and deliverability.

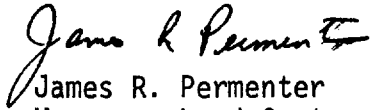
Attached hereto is Schedule XIV which shows the proposed Thirteenth Expanded Participating Area for the Dakota Formation in the San Juan 27-4 Unit Area. This Schedule describes the expanded participating area, shows the percentage of unitized substances allocated to each unitized tract, and the percentages of ownership in each tract.

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

Regional Oil and Gas Supervisor
Oil Conservation Commission
Page Three

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

Yours very truly,




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

JRP:DW:nm
Enclosures
S. J. 27-4, 4.3

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

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

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

APPROVED:  _____ DATE: February 2, 1976
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey

The foregoing approvals are for the Thirteenth Expanded Participating Area of the Dakota Formation, San Juan 27-4 Unit #14-08-001-1054, Rio Arriba County, New Mexico.

SAN JUAN 27-4 UNIT
Working Interest Owners

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

Mr. M. A. Romero

SCHEDULE XIV
THIRTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 27-4 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>Tract 4</u>						
SF 080668	<u>T-27-N, R-4-W</u> 1,597.84					<u>13.308380%</u>
	Sec. 3: Lots 3,4, S/2 NW/4, SW/4		Royalty; Working Interest; El Paso Natural Gas Co.;	12.50000%	12.50000%	
	Sec. 4: Lots 1,2,3,4, S/2 N/2, S/2 (A11)		ORRI;	66.78375% 20.71625%	66.78375% 20.71625%	
	Sec. 9: A11		TOTAL	<u>100.00000%</u>	<u>100.00000%</u>	
<u>Tract 5</u>						
SF 080669	<u>T-27-N, R-4-W</u> 2,080.84					<u>17.331278%</u>
	Sec. 17: <u>N/2, E/2</u> SW/4, SE/4		Royalty; Working Interest; El Paso Natural Gas Co.;	12.50000%	12.50000%	
	Sec. 18: Lots 1, 2, E/2 NW/4, NE/4, S/2 SE/4		ORRI;	66.78375% 20.71625%	66.78375% 20.71625%	
	Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2		TOTAL	<u>100.00000%</u>	<u>100.00000%</u>	
	Sec. 20: A11					
<u>Tract 6</u>						
SF 080670	<u>T-27-N, R-4-W</u> 2,564.72					<u>21.361505%</u>
	Sec. 29: <u>A11</u>		Royalty; Working Interest; El Paso Natural Gas Co.;	12.50000%	12.50000%	
	Sec. 30: Lots 1,2,3,4, E/2 W/2, E/2 (A11)		ORRI;	66.78375% 20.71625%	66.78375% 20.71625%	
	Sec. 31: Lots 1,2,3,4, E/2 W/2, E/2 (A11)		TOTAL	<u>100.00000%</u>	<u>100.00000%</u>	
	Sec. 32: A11					

SCHEDULE XIV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>Tract 10</u>						
SF 080673	<u>T-27-N, R-4-W</u> 2,561.11					<u>21.331438%</u>
	Sec. 5: Lots 1,2,3,4, S/2 N/2, S/2 (A11)		Royalty; Working Interest: El Paso Natural Gas Co.;	12.50000%	12.50000%	
	Sec. 6: Lots 1,2,3,4,5,6,7, S/2 NE/4, SE/4 NW/4, E/2 SW/4, SE/4 (A11)		ORRI;	66.78375% 20.71625%	66.78375% 20.71625%	
			TOTAL	100.00000%	100.00000%	
	Sec. 7: Lots 1,2,3,4, E/2 W/2, E/2 (A11)					
	Sec. 8: A11					
<u>Tract 11</u>						
SF 080674	<u>T-27-N, R-4-W</u> 1,280.00					<u>10.661096%</u>
	Sec. 16: A11		Royalty;	12.50000%	12.50000%	
	Sec. 21: A11		Working Interest: El Paso Natural Gas Co.;	66.78375% 20.71625%	66.78375% 20.71625%	
			ORRI;	100.00000%	100.00000%	
			TOTAL	100.00000%	100.00000%	
<u>Tract 12</u>						
SF 080675	<u>T-27-N, R-4-W</u> 1,440.00					<u>11.993733%</u>
	Sec. 28: W/2		Royalty;	12.50000%	12.50000%	
	Sec. 33: A11		Working Interest:	66.78375%	66.78375%	
	Sec. 34: N/2, SW/4		El Paso Natural Gas Co.;	20.71625%	20.71625%	
			ORRI;	100.00000%	100.00000%	
			TOTAL	100.00000%	100.00000%	

Effective January 1, 1975

SCHEDULE XIV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>Tract 13</u>						
Fee	T-27-N, R-4-W	321.13				<u>2.674686%</u>
	Sec. 17: W/2 SW/4		Royalty;	12.50000%	12.50000%	
	Sec. 18: N/2 SE/4		Working Interest:			
	Sec. 19: Lot 2,3,4, SE/4 SW/4		El Paso Natural Gas Co.;	82.50000%	82.50000%	
			ORRI;	<u>5.00000%</u>	<u>5.00000%</u>	
			TOTAL	<u>100.00000%</u>	<u>100.00000%</u>	
<u>Tract 14</u>						
Fee	T-27-N, R-4-W	160.63				<u>1.337884%</u>
	Sec. 18: Lots 3,4, E/2 SW/4		Royalty;	12.50000%	12.50000%	
			Working Interest:			
			El Paso Natural Gas Co.;	85.00000%	85.00000%	
			ORRI;	<u>2.50000%</u>	<u>2.50000%</u>	
			TOTAL	<u>100.00000%</u>	<u>100.00000%</u>	

Effective January 1, 1975

SCHEDULE XIV
THIRTEENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION
SAN JUAN 27-4 UNIT AREA

RECAPITULATION

Description of Lands in Participating Area:

Township 27 North, Range 4 West, N.M.P.M.
 Section 3: W/2
 Section 4: A11
 Section 5: A11
 Section 6: A11
 Section 7: A11
 Section 8: A11
 Section 9: A11
 Section 16: A11
 Section 17: A11
 Section 18: A11
 Section 19: A11
 Section 20: A11
 Section 21: A11
 Section 28: W/2
 Section 29: A11
 Section 30: A11
 Section 31: A11
 Section 32: A11
 Section 33: A11
 Section 34: N/2, SW/4

Total Number of Acres in Participating Area: 12,006.27
 Total Number of Acres Participating: 12,006.27

Percent of Basic Royalty Committed: 100.00%
 Percent of Working Interest Committed: 100.00%
 Percent of O.R.R.I. Committed: 100.00%