

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)





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 554

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. 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

Robert P. Tophino

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



## 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

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

Attention: Mr. D. N. Canfield

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

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





March 31, 1982

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

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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
<del>-</del> .	138

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.

<u>Well</u>	Drilling Block	Formation
#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,

anjoued

D. N. Canfield

Attorney-in-Fact

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	
	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  $\pm 14-08-001-1054$ , 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 2 2 1982

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

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## 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 Hesaverde participating area in the San Juan 27-4 Unit. The notice of expansion is hereby accepted for record on this date.

Sincerely yours,

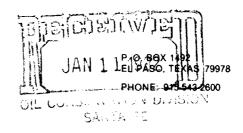
(ORIG. SGD.) JAMES W. SHELTON

FOR Gene F. Daniel
Deputy Minerals Manager
Oil and Gas

Enclosures

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





January 8, 1982

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

554

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

		SF 080673		SF 080672		SF 080671-A		SF 080670	ERIAL NUMBER
8: All	Sec. 6: Lots 1  Sec. 7: Lots 1	T-27-N, R-4-W Sec. 5: Lots 1		T-27-N, R-4-W Sec. 14: W/2		T-27-N-, R-4-W Sec. 11: W/2	Sec. 30: Lots 1,2, E/2 W/2, Sec. 31: Lots 1,2, E/2 W/2,	꾸	DESCRIPTION
, E/2 (All)	1,2,3,4,5,6,7, 1,2,3,4,5,6,7, 4 NW/4,S/2 NE/4, SW/4, SE/4 1,2,3,4, F/2	2241.52 1, 2, S/2		960.00		320.00	Lots 1,2,3,4, E/2 W/2, E/2 (All) Lots 1,2,3,4, E/2 W/2, E/2 (All)	1924.72	NUMBER OF ACRES
TOTAL	El Paso Natural Gas Company FWG Partnership ORRI;			Royalty; Working Interest:	Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty;	Working Interest: El Paso Natural Gas Co.; FWG Partnership ORRI; TOTAL	Royalty;	DRILLING BLOCK
100.0000008	ny 41.250000% 41.250000% 5.000000%	12.500000%	41.250000% 41.250000% 5.000000% 100.000000%	12.500000%	82.500000% 5.000000% 100.000000%	12.500000%	,41.2500008 41.2500008 5.0000008 100.0000008	12.500000%	BLOCK
100.0000008	41.250000% 41.250000% 5.000000%	12.500000%	41.250000% 41.250000% 5.000000% 100.0000000%	12.500000%	82.5000008 5.0000008 100.0000008	12.500000%	41.2500008 41.2500008 5.0000008 100.0000008	12.500000%	PERCENTAGE F
		16.668117	g ve	7.138635%	<b>a</b> n ( <b>≠</b>	2,3795458		14.312367%	PRESENT ACTUAL PARTICIPATION

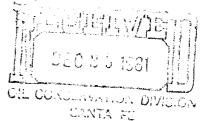


P. O. BOX 1492 EL PASO, TEXAS 79978

PHONE: 915-543-2600

## 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

Drilling Bl	ock	Acres	Well No.
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:	•	320.00	Intervening Drilling Block
Section 22:	•	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,

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

CEDIA! NEMBED	NOITOIGUSTO	NUMBER	DRILLING BLOCK	OCK	PERCENTAGE	PRESENT ACTUAL
		OF ACRES	OWNERSHIP	PERCENT AGE	COMMITTED	PARTICIPATION
100000		0	TRACT 1			2.0186218
o <b>r</b> 013297	Sec. 1: Lots 3,	519.91 4,		12,500000%	12,500000%	
	N 2/6	5/C NW/4, 5W/4	Working interest: El Paso Natural Gas Co.; ORRI;	83.750000% 3.750000%	83.750000% 3.750000%	
			TOTAL	100.000000\$	100.000000%	
9F 070527	W. H. Q. N. 7C. T.	1280 00	TRACT 2			8.076754%
01.019021	26:	00.00	Royalty;	12,500000%	12.50000%	
	Sec. 30: A11		Working interest: El Paso Natural Gas Co.; Oppi:	83.750000%	83.750000%	
			OAAL, TOTAL	100.00000%	100.00000%	
			TRACT 4			4.033329%
SF 080668	T-27-N, R-4-W Sec. 4: Lots 3,	639.20 4, S/2	Royalty;	12,500000%	12.50000%	
	NW/4	7	Working Interest:			
	Sec. 9: W/2		o t	41.250000% 41.250000%	41.250000% 41.250000%	
			ORKI; TOTAL	100.00000%	100.00000%	
SF OROKEO	W-11-8 N-72-T	2080 811	TRACT 5			13.1300268
	4	E/2	Royalty;	12.500000%	12.500000%	
	Sec. 18: Lots 1	Lots 1,2, E/2 NW/4,	Working interest: El Paso Natural Gas Co.;	41.250000%	41.250000%	
	Sec. 19: Net 118	NE/4, S/2 SE/4 Netulswem2 mw24,	PWG Fartnership ORRI;	41.250000 5.000000 <b>3</b>	5.000000	
			TOTAL	100.00000%	100.000000%	

EI Paso Natural Gas Company
UNIT AREA EXPANSION SCHEDULE -- SAN JUAN BASIN
Form 21-71 (2-72)

## SCHEDULE XXVIII

PERCENTAGE PRESENT ACTUAL		16.183292%	12.500000%	41.250000% 41.250000%	5.000000%	2.019189%	12.500000%	82.500000% 5.000000%	100.00000%	6.057566	12,500000%	41,250000%	5.000000	14,1439118	12.500000%	41.250000% 41.250000%	*000000.c	
OCK	PERCENTAGE		12.500000%	41.250000% 41.250000%	5.000000%		12.500000%	82,500000% 5,000000%	100.000000%		12.500000\$	41.250000	5.000000		12.500000%	41.250000%	\$.000000 \$.	
DRILLING BLOCK	OWNERSHIP	TRACT 6		Working Interest: El Paso Natural Gas Co.; PWG Partnership	ORRI: TOTAL	TRACT 8	••	Working Interest: El Paso Natural Gas Co.; ORRI;	TOTAL	TRACT 9		Working interest: El Paso Natural Gas Co.;	PWG Fartnership ORRI; TOTAL	TRACT 10		Working Interest: El Paso Natural Gas Co.; PWG Partnership	ORRI;	
NUMBER	OF ACRES	1010	2204.12	•		000	320.00			040	00.006				2, 8/2	SE/4 , 2, 3, 4, 7, SE/4	NW/4, S/2 NE/4, E/2 SW/4, SE/4	2, 3, 4
	DESCRIPTION		-N . R-	Sec. 30: All Sec. 31: All Sec. 32: All		2 4 5 C F	Sec. 11: W/2			7 C	14: 14:	Sec. 23: All				NE/4, S Sec. 6: Lots 1, 5, 6, 7	NW/4, E/2 SW	Sec. 7: Lots 1.
	SERIAL NUMBER		SF 080670			4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	SF 0805/1-A			20000 35	2/ 0000 JC			; t	SF 080673			

## EI Paso Natural Gas Company UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN Form 21-71 (2-72)

## SCHEDULE XXVIII

SERIAL NUMBER		NUMBER	DRILLING BLOCK	OCK	PERCENTAGE	PRESENT ACTUAL
SF 080674	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
or 0000/4	ſ	000000000000000000000000000000000000000	TRACT 11			16.153509%
	Sec. 15: All	7200.00	Royalty; Working Interest;	12.50000%	12.500000%	
	21:		El Paso Natural Gas Co.; PWG Partnership	41.250000% 27.500000%	41.250000% 27.500000%	
			T. H. Harrington Gerald E. Harrington	2,750000%	2.750000%	
				2,75000%	2.75000%	
			James V. narrington Mary Jone Chappell	2.750000%	2.750000%	
			ORRI; TOTAL	5.000000% 100.000000%	5.000000%	
SF 080673	T-27-N. R-4-W	2400.00	TRACT 12			15.143915%
•	1		Royalty;	12.500000%	12.500000%	
	33: A11 34: W/2,	NE/4	Moralig incerest.  El Paso Natural Gas Co.;  PWG Partnership T. H. Harrington Gerald E. Harrington	41.250000% 27.500000% 2.750000% 2.750000%	41.250000% 27.500000% 2.750000% 2.750000%	
			F. Eugene Harrington James V. Harrington Mary Jone Chappell	2.75000% 2.750000% 2.750000%	2.75000% 2.750000% 2.750000% 5.000000%	
			TOTAL	100,00000%	100,000000	
بر 6	T-27-N. R-4-W	321.13	TRACT 13			2.026319%
	Sec. 17: W/2 SW/4		Royalty Working Interest:	12,500000%	12.500000%	
	19: Lots SE/4	2, 3, 4, SW/4		82.500000% 5.000000%	82.500000%	

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PERCENTAGE   PRESENT ACTUAL	COMMITTED PARTICIPATION	1.013569%	12.500000%	85.000000% 2.500000% 00.000000%				
PER	COM		=	Ø  0-				
OCK	PERCENTAGE		12.50000%	85.000000% 2.500000% 100.000000%				
DRILLING BLOCK	OWNERSHIP	TRACT 14	Royalty;	working interest: El Paso Natural Gas Co.; ORRI;				
NUMBER	OF ACRES	69 031	100.03					
NOTEGIGOR	2002	2 2 20 20 20 20 20 20 20 20 20 20 20 20	Sec. 18: Lots 3, 4, E/2 SW/4					
SECOLA INTEREST	SENIAL NOMBER							

## SCHEDULE XXVIII

- A. A A. A A. A A. A A						
CEDIAL NIMBED	NOTEGIGOSEG	NUMBER	DRILLING	DRILLING BLOCK	PERCENTAGE	PRESENT ACTUAL
		OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
			RECAP	RECAPITULATION		

## ١

Description of Lands in Participating Area:

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

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:
Section 34: W/2, NE/4 Sections 1, 4, 9, 11, 14: W/2

A11

Total number of acres in Participating Area:

15,847.95

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





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

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

EI Paso Natural Gas Company
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

Int Nat ner	Morking Interest: Working Interest: El Paso Natural G PWG Partnership ORRI;
Natural G nership Interest: Natural G nership	FI Paso Natural PWG Partnership ORRI;  NW/4, E/2 SW/4, Royalty;  Lots 1,2, E/2 NW/4, El Paso Natural NE/4, S/2 SE/4 PWG Partnership Lot 1, E/2 NW/4, ORRI;  NE/4 SW/4, E/2 All

EI Paso Natural Gas Company UNIT AREA EXPANSION SCHEDULE – SAN JUAN BASIN Form 21-71 (2-72)

## SCHEDULE XXVII

SERIAL NUMBER	DESCRIPTION	DRILLING BLOCK		PERCENTAGE	PRESENT ACTUAL
	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
!	: :	TRACT 6			18.205062%
11	소 .	Royalty	12.500000%	12.500000%	
		Working Interest: El Paso Natural Gas Co.;	41.250000%	41.250000%	
Sec. 32:	: All	PWG Partnership ORRI:	41.250000% 5.000000%	\$.000000 5.000000	
		TOTAL	100.000000%	100.000000	
1		TRACT 8			2.271445%
-27-	T-27-N, K-4-W 320.00 Sec. 11: W/2		12.500000%	12.500000%	
		Working Interest: El Paso Natural Gas Co.;	82.500000%	82.500000%	
		UNNI; TOTAL	100.000000	100.000000%	
	;	TRACT 9			6.814334%
1 1	분	Royalty	12.500000%	12.500000%	
Sec.	23: All	Working Interest: El Paso Natural Gas Co.; PWG Partnership	41.250000% 41.250000%	41.250000% 41.250000%	
		ORRI; TOTAL	5.000000% 100.000000%	5.0000008	
1	;	TRACT 10			15.910903%
T-27-N, Sec. 5:	5: Lots 1	Royalty	12,500000%	12.500000%	
Sec.	N . N .	Working Interest: El Paso Natural Gas Co.; PWG Partnership	41.250000% 41.250000% 5.000000%	41.250000% 41.250000% 5.000000%	
Sec.	E/2 SW/4, SE/4 7: Lots 1, 2, 3, 4, E/2 W/2, E/2 (All) 8. All	TOTAL	100,00000%	100,000000%	
Effective 10-1-80		Page 2			

Effective 10-1-80

Page 2

EI Paso Natural Gas Company
UNIT AREA EXPANSION SCHEDULE – SAN JUAN BASIN
Form 21-71 (2-72)

## SCHEDULE XXVII

080674 T-27-N, Sec. 15: Sec. 21: Sec. 21: Sec. 22:						NOTE VOICE FOR O
Sec. Sec. Sec. Sec.		OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
% % % % % % % % % % % % % % % % % % %	R-4-W	1280.00	TRACT 11			9.085779%
	E/2		Royalty;	12.50%	12.50%	
			TI Paso Natural Gas Co.:	41.25%	41.25%	
	E/2			27.50%	27.50%	
			T. H. Harrington	2.75%	2.75%	
				2.75%	2.75%	
			n)	2.75%	2.75%	
			Œ	2.75%	2.75%	
			Mary Jone Chappell	2.75%	2.75%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
080673 T_27_N	<b>1</b>	1000	TRACT 12			13.628668%
Sec.	<u> </u>	00.036		12,50%	12.50%	
			•••			
Sec. 33:	: A11		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%	
			Ŧ	2.75%	2.75%	
			Mary Jone Chappell	2.75%	2.75%	
				5.00%	5.00%	
			TOTAL	100.001	100.00%	
N_7C_T	7-11-0	321 13	TRACT 13			2.279466%
	W/2 SW/4		Royalty	12.50%	12.50%	
8	N/2		Interest:		1	
Sec. 19:	: Lots 2, 3	* * * * * * * * * * * * * * * * * * *	El Paso Natural Gas Co.;	82.50%	82.50%	
	SE/4 SW	<b>ವ</b>	ORKI;	5.00%	5.00%	

EI Paso Natural Gas Company UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN Form 21-71 (2-72)

## SCHEDULE XXVII

PRESENT ACTUAL	PARTICIPATION	1.140194%				
PERCENTAGE	COMMITTED		12.50%	85.00%	2.50%	100.00%
OCK	PERCENT AGE		12.50%	85.00%	2.50%	100.00%
DRILLING BLOCK	OWNERSHIP	TRACT 14	Royalty;	working interest: El Paso Natural Gas Co.;	ORRI;	
NUMBER	NUMBER OF ACRES		100.03	h /		
NOIH CIECO	NOI LINOSET	: :	Sec. 18: Lots 3, 4,	E/2 SN		
	אבאואר ואַסאַפּראַ					

PRESENT ACTUAL	PARTICIPATION
PERCENTAGE	COMMITTED
DRILLING BLOCK	PERCENTAGE
DRILLI	OWNERSHIP
NUMBER	OF ACRES
NO. FOI OCEN	
OHOMIN IN INCHES	

## RECAPITULATION

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

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



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

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 554

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

Drilling Block	Acres	Well No.
T-27-N, R-4-W		
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,

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

EI Paso Natural Gas Company 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

	NOITOGOGG	NUMBER	DRILLING BLOCK	OCK	PERCENTAGE	PRESENT ACTUAL
SERIAL NUMBER		OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
NW 012207	W II d NZC T	210 01	TRACT 1			2.378876%
MR 013231	Sec. 1: Lots 3,	19.91 4, 8/2	Royalty;	12.500000%	12.500000%	
	NW/4, 5W/4	5W/4	working interest: El Paso Natural Gas Co.;	83.750000%	83.750000%	
			TOTAL	100,000000	100.000000	
SF 070527	W_H_B_N_7C_T	1280 00	TRACT 2			9.518179%
13751	Sec. 26: All	000		12,500000%	12.500000%	
	Sec. 30: All		working interest: El Paso Natural Gas Co.; ORRI;	83.750000%	83.750000%	
			IOIAL	\$000000.00I	100,000,001	
SF 080668	T-27-N R-4-W	02 029	TRACT 4			4.753141%
	Sec. 4: Lots 3,	⇒ }	Royalty;	12.500000%	12.500000%	
	NW/4, NW/4, SW/4	\$/M?	Working Interest: Fl Paso Natural Gas Co.:	41,250000%	41,250000%	
	;		PWG Partnership	41,25000%	41.250000%	
	·		ORRI; TOTAL	5,000000%	5.000000%	
00000	: : :	0000	TRACT 5	,		15.473288%
SF 080009	17: NW/4,	. a	E/2 Royalty;	12.50000%	12,500000%	
		LOUS 1, 2, E/2 NW/4, NE/4, S/2	working incerest: El Paso Natural Gas Co.;	41.250000%	41.250000%	
	Sec. 19: Lot 1,	SE/4 Lot 1, E/2 NW/4, NF/H SH/H E/2	PWG Partnership ORRI;	41.250000% 5.000000%	41.250000% 5.000000%	
	Sec. 20: All	11/4° 5/2	TOTAL	100.00000%	100.00000%	

EI Paso Natural Gas Company
UNIT AREA EXPANSION SCHEDULE -- SAN JUAN BASIN
Form 21-71 (2-72)

# SCHEDULE XXVI

PRESENT ACTUAL	PARTICIPATION	19.781065%			2,379545%				7.138635%				e	16.668117				
PERCENTAGE	COMMITTED		12.500000% 41.250000%	41.250000% 5.000000% 100.000000%		12.500000%	82.500000%	100.00000%		12,500000%	41,250000%	41.250000%	5.000000%		12,500000%	41.250000% 41.250000%	*000000.c	100.000000
CK	PERCENTAGE		12.500000% 41.250000%	41.250000% 5.000000% 100.000000%		12.500000%	82.500000%	100.00000%		12.500000%	41.250000%	41.250000%	5.000000% 100.000000%		12.50000%	41.250000\$ 41.250000\$	%000000°C	100.000000
DRILLING BLOCK	OWNERSHIP	TRACT 6	Royalty; Working Interest: El Paso Natural Gas Co.;	PWG Partnership ORRI; TOTAL	TRACT 8	Royalty;	Morking interest: El Paso Natural Gas Co.; ORRI:	TOTAL	TRACT 9	Royalty;	working interest: El Paso Natural Gas Co.:	artnership	ORRI; TOTAL	TRACT 10	Royalty;	Working incerest, El Paso Natural Gas Company PWG Partnership	ORKI.;	TOTAL
NUMBER	OF ACRES	2564.72	A11 Lots 1,2,3,4, E/2 W/2, E/2 (A11)	Lots 1,2,3,4, E/2 W/2, E/2 (All)	320.00	1			טע טעס				·	1 200	2, 8/2	Lots 1,2,3,4,5,6,7, SE/4 NW/4,S/2 NE/4,	E/2 SW/4, SE/4 Lots 1,2,3,4, E/2	( <b>HIT</b> )
NOTHOR	DESCRIPTION	N,	 30 :	Sec. 31: Lots 1,. E/2 W/2	T-27-N-, R-4-W	I .			T_27_N R_U_W	14:	Sec. 23: All			2		Sec. 6: Lots 1,2 SE/4 NW	Sec. 7: Lots 1,2	%/2, E/6
SEDIAL MIMORD	SERIAL NUMBER	SF 080670			SF 080671-A				SF 080672					000643	or 000013			

Effective 8-1-80

Page 2

# El Paso Natural Gas Company UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN Form 21-71 (2-72)

# SCHEDULE XXVI

PRESENT ACTUAL	PARTICIPATION	9.518179%										14.277269%												2.387947%						
PERCENTAGE	COMMITTED		12,500000%	41.250000%	27.500000%	2.75000%	2.75000%	2.75000%	2.75000%	2.750000%	100.00000%		12,500000%		41.250000%	27.500000%	2.750000%	2.75000%	2.750000%	2.750000%	2.750000%	5.000000%	100.00000%		12,500000%		82.500000%	5.000000%	100.000000%	
OCK	PERCENTAGE		12.500000%	41.250000%	27.50000%	2.750000%	2.750000%	2.750000%	2.750000%	2.750000%	100.00000%		12,500000%		41.250000%	27.500000%	2.750000%	2.750000%	2.750000%	2.750000%	2.750000%	5.000000%	100.00000%		12,500000		82,500000%	5.000000	100,00000%	
DRILLING BLOCK	OWNERSHIP	TRACT 11	Royalty;	El Paso Natural Gas Co.;	PWG Partnership	T. H. Harrington	Gerald E. Harrington	F. Eugene Harrington	James V. Harrington	Mary Jone Chappell	ORRI; TOTAL	TRACT 12	Royalty;	••	El Paso natural Gas Co.;	PWG Partnership	T. H. Harrington	Gerald E. Harrington	F. Eugene Harrington	James V. Harrington	O)	ORRI;	TOTAL	TRACT 13	Bowel two	Moyarcy,	El Paso Natural Gas Co.;	ORRI;	TOTAL	
NUMBER	OF ACRES	000	1200.00										1920.00												321.13	† <u>=</u>	3, 4,			
	DESCRIPTION		Sec. 15: E/2		22:								T-27-N, R-4-W	- 58 - 58 - 58	33:										T-27-N, R-4-W	- 6	Sec. 19: Lots 2,	<b>\</b>		
	SERIAL NUMBER		SF 080674						•				SF 080673												Fee					

El Paso Natural Gas Company	UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN	21-71 (2-72)
El Paso Natu	UNIT ARE	Form 21-71 (2-72)

SCHEDULE XXVI

CHOMINIA	MOITGIGOSEG	NUMBER	DRILLING BLOCK	.ock	PERCENTAGE	PRESENT ACTUAL
SENIAL NUMBER		OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
		ì	TRACT 14			1.1944578
	T-27-N, R-4-W	160.63			10 00000	
	Sec. 18: Lots 3, 4	<b>=</b>	Koyalty;	* 2000000 * 21	400000C*ZI	
	E/2 3W/	<b>1</b>	Working interest. El Paso Natural Gas Co.;	85.000000	85.500000	
			ORRI;	2.500000%	2,500000	
			TOTAL	100.00000%	100,000000	

El Paso Natural Gas Company	UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN	1.71 (2.72)
El Paso Natural	UNIT AREA	Form 21-71 (2-72)

SCHEDULE XXVI

PRESENT ACTUAL	PARTICIPATION	
PERCENTAGE	COMMITTED	
DRILLING BLOCK	PERCENT AGE	
DRILI	OWNERSHIP	
NUMBER	OF ACRES	
MOLEGIGO		
GEOMIN INIGES	אבאואר אטשפרא	

# RECAPITULATION

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:

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

13,447.95

100.000000% 100.000000% 100.000000%



PHONE: 915-543-2800
DEC 2 3 1931

C: CONSERVATION DIVISION
CONTA FO

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

Drilling Block	Acres	Well No.
T-27-N, R-4-W	200 00	OT 4 H100
Section 33: E/2	320.00	SJ 27-4 #102

Regulatory Agencies
Page Two

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

El Paso natural Gas Company
UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN
Form 21-71 (2-72)

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

PRESENT ACTUAL	PARTICIPATION	2.775082%				11.103449%				5.544785%				18.050391%				
PERCENTAGE	COMMITTED		12.50%	83.75%	100.00%		12.50%	83.75%	100.00%		12.50%	41.25% 41.25%	100.00%		12.50%	41.25%	41.25% 5.00%	100.00%
OCK	PERCENTAGE		12.50%	83.75%	100.001		12.50%	83.75%	100.00%		12.50%	41.25% 41.25%	100.005		12.50%	41.25%	41.25% 5.00%	100.00%
DRILLING BLOCK	OWNERSHIP	TRACT 1	Royalty;	• —	TOTAL	TRACT 2	••	El Paso Natural Gas Co.;	TOTAL	TRACT 4	Royalty;	so sarti	UKKI; TOTAL	TRACT 5	Royalty;	El Paso	PWG Partnership ORRI;	TOTAL
NUMBER	OF ACRES	210 01	14, 14, 18 CH/18	r / E / C		1280 00	00.0021	j			639.20 4, S/2	•		שא טאטכ	NW/4, E/2 SW/4,	1,2, E/2 NW/4,	1, S/2 SΕ/4 1, E/2 NW/4,	NE/4 SW/4, E/2 All
NOTHER	DESCRIPTION	W H Q N 2C T	Sec. 1: Lots 3, 4,	/WW 7/0		W-11-8 N-75-T	Sec. 26: All	Sec. 30: ALL			T-27-N, R-4-W Sec. 4: Lots 3, 4,	Sec. 9: W/2		T-27-N-R-4-W	Sec. 17: NW/4,	Sec. 18: Lots 1	NE/4, Sec. 19: Lot 1,	NE/4 Sec. 20: All
	SERIAL NOMBER	SE 012207	3636			SF 070527	120610 30				SF 080668			SF 080669				

EI Paso Natural Gas Company UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN Form 21-71 (2-72)

# SCHEDULE XXV

PRESENT ACTUAL	PARTICIPATION	16.696117					2.775862%				8.327586%					19.444220%						
PERCENTAGE	COMMITTED		12.50%	41.25%	41.25%	100.00%		12.50%	82.50%	5.00%		12.50%	41.25%	5.00%	100.00%		12.50%	41.25%	5.00%		100.00%	
OK	PERCENTAGE		12.50%	41.25%	41.25%	100.00%		12.50%	82.50%	5.00%		12.50%	41.25%	41.25% 5.00%	100.001		12.50%	41.25%	5.00%		100.00%	
DRILLING BLOCK	OWNERSHIP	TRACT 6	••	working interest: El Paso Natural Gas Co.;	PWG Partnership	UKKI: TOTAL	TRACT 8	••	Working Interest: El Paso Natural Gas Co.;	ORRI; TOTAL	TRACT 9		Working interest: El Paso Natural Gas Co.;	PWG Partnership ORRI;	TOTAL	TRACT 10	••	working interest: El Paso Natural Gas Co.;	PWG Partnership ORRI;		TOTAL	Page 2
NUMBER	OF ACRES	1001 40	21.4.261				00 000	320.00			90	00.006					2, 8/2	, 2, 3, 4,	, SE/4 2 NE/4,	SE/	, E/2 (All)	
100 Hara	DESCRIPTION	1	29:	Sec. 30: A11			3 6 F	Sec. 11: W/2			5 6 7 8	Sec. 14: W/2	Sec. 23: All			1	<del>-</del>	Sec. 6: Lots 1,	5, 6, 7, NW/4 S/2	E/2 SW/4, SE/4 Sec. 7: Lots 1, 2, 3,	E/2 W/2 Sec. 8: All	80
	SEKIAL NUMBER	00000	25 000010				A 1290671	SF 0606/1-A				21 0000 35				C 2000 LD	Sr 080073					Effective 7-1-80

EI Paso Natural Gas Company
UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN
Form 21-71 (2-72)

# SCHEDULE XXV

DESCRIPTION OF ACRES
TRA  TRA  Sec. 15: E/2  Sec. 16: W/2  Sec. 16: W/2  El Paso Natural Gas  PWG Partnership  T. H. Harrington  Gerald E. Harrington  James V. Harrington  James V. Harrington  Mary Jone Chappell  ORRI;
THE TRANSPORTS AND ROYALTY; Sec. 33: All Royalty; Working Interest: El Paso Natural Gas PWG Partnership T. H. Harrington Gerald E. Harrington James V. Harrington James V. Harrington Mary Jone Chappell ORRI;
T-27-N, R-4-W Sec. 17: W/2 SW/4 Sec. 17: W/2 SE/4 Sec. 18: N/2 SE/4 Sec. 19: Lots 2, 3, 4, El Paso Natural G SE/4 SW/4 ORRI;

Ш	COMMITTED PARTICIPATION	1.393396%	12.50%	85.00%	2.50%	100.00%
PERC	COMIN		#	80		100
ОСК	PERCENTAGE		12.50%	85.00%	2.50%	100.00%
DRILLING BLOCK	OWNERSHIP	TRACT 14	Royalty;	Working interest: El Paso Natural Gas Co.;	ORRI;	
NUMBER	OF ACRES	160 63		ŧ		
NOITOIGUSTA		W_H_R N_7C_T	Sec. 18: Lots 3, 4,	E/ C 3W,		
SEDIAL NIMORD						

EI Paso Natural Gas Company UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN Form 21-71 (2-72)
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SCHEDULE XXV

		NUMBER	DRILLIN	DRILLING BLOCK	PERCENTAGE	PRESENT ACTUAL
SERIAL NOMBER	טפאטראידי	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
			A E C A E	RECAPITULATION		

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

100.00% 100.00% 100.00%

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



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

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

d/ 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.

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

El Paso Natural Gas Company
UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN
Form 21-71 (2-72)

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

PRESENT ACTUAL	PARTICIPATION	9.192160%				2.298040%				13.790753%				18,418216%	-			
PERCENTAGE	COMMITTED		12.50%	83.75%	100.00%		12.50%	82.50%	100.00%		12.50%	82.50%	5.00% 100.00%		12.50%	41.25%	41.25 5.00 <b>%</b>	100.00%
OCK	PERCENT AGE		12.50%	83.75%	3.(2). 100.000		12.50%	82.50%	100.00%		12.50%	82.50%	5.00% 100.00%		12.50%	41.25%	5.00%	100.00%
DRILLING BLOCK	OWNERSHIP	TRACT 2	Royalty;	El Paso Natural Gas Co.;	UKKI; TOTAL	TRACT 4	Royalty;	<pre>working interest: El Paso Natural Gas Co.; OPPI:</pre>	ONNI; TOTAL	TRACT 5	Royalty;	working interest: El Paso Natural Gas Co.;	ORRI; TOTAL	TRACT 6	Royalty;	Working incerest: El Paso Natural Gas Co.;	PWG Partnership ORRI;	TOTAL
A H M M H M	OF ACRES	1280.00				320.00	•			1000	NW/4, E/2 SW/4	NE/4, S/2 SE/4 Working Lot 1, E/2 NW/4, El Paso	SM/ 4, E/2	25631 72	2).10(2	E/2 W/2, E/2 (All)	1,2,3,4, //2, E/2 (All)	
	DESCRIPTION	T_7_T	Sec. 26: All			T_7_N_ R_4_H_W	Sec. 9: W/2			7 d N 70 F	17:	Sec. 18: NE/4 Sec. 19: Lot	Sec. 20: All	2 C F	<b>5</b> }		Sec. 31: Lots E/2	Sec. 32: All
	SERIAL NUMBER	SF 070527				SF 080668				9E 080660	600000 JG			000640	0.000			

EI Paso Natural Gas Company UNIT AREA EXPANSION SCHEDULE -- SAN JUAN BASIN Form 21-71 (2-72)

# SCHEDULE XX

Ш	COMMITTED PARTICIPATION	9.192160%	12.500000%	41.250000%	41.250000%	100.00000%	13.778976%	12.500000%	41,250000% 41,250000%	5.000000% 100.000000%	13.788240%	12.500000%	41.250000%	27.50000%	13.750000%	5.00000%	17.235300%	12,500000%	E > > > > - 1	11. (CO) (C) (T) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	41.250000% 41.250000%
	PERCENT AGE		12,500000%	41.250000%	41.250000%	100.00000		12,500000%	41.250000% 41.250000%	5.000000% 100.000000%		12.500000%	41.250000%	27.500000%	13.750000%	5.000000%		12.500000%		11 OFCOOD	41.250000% 41.250000%
DRILLING BLOCK	OWNERSHIP	TRACT 9	Royalty;	Working Interest: El Paso Natural Gas Co.;	PWG Partnership	URKI; TOTAL	TRACT 10	Royalty;	working interest: El Paso Natural Gas Co.; PWG Partnership	ORRI; TOTAL	TRACT 11	1	working interest: El Paso Natural Gas Co.;	PWG Partnership	T. H. Harrington, Title Agent	ORRI;	TRACT 12	Royalty;		Working Interest:	Working Interest: El Paso Natural Gas Co.; PWG Partnership
NUMBER	OF ACRES	1280 00	00.003					1, 2, 8/2	DE/4, W/2		1020 00	•					2400.00				NE/4
	DESCRIPTION	W 11 90 N 70 T	23:	Sec. 24: All			- - - -	Sec. 5: Lots 1, N-4-W	Sec. 6: E/2 Sec. 7: E/2	 &	12 11 91 N 7C T	19:	Sec. 21: All Sec. 22: All				T-27-N. R-4-W	27:	Sec 28. 411	,,,	
	SEKIAL NOMBER	GE 080672	310000 15				7000	of 0800/3			SF 080671						SF 080675				

EI Paso Natural Gas Company
UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN
Form 21-71 (2-72)

SCHEDULE XX

PRESENT ACTUAL	PARTICIPATION	2.306155%						
PERCENTAGE	COMMITTED			12.50%		82.50%	2.00%	100.00%
OCK	PERCENT AGE			12,50%		82.50%	5.00%	100.00%
DRILLING BLOCK	OWNERSHIP	TRACT 13		Royalty;	Working Interest:	El Paso Natural Gas Co.;	ORRI;	TOTAL
NUMBER	OF ACRES		321.13	17	17/	, 3, 4,	ħ/M	
NOITOIGUSEC			T-27-N, R-4-W	Sec. 17: W/2 SW/4	Sec. 18: N/2 SE	Sec. 19: Lots 2	SE/4 S	
OF CALL MINDED	SCHIAL NOMBER		Fee					

# UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN El Paso Natural Gas Company Form 21-71 (2-72)

SCHEDULE XX

PRESENT ACTUAL	PARTICIPATION
PERCENTAGE	COMMITTED
DRILLING BLOCK	WNERSHIP
	OWNERSHIP
NUMBER	OF ACRES
MOTTOROUSE	
CHOIALIMAGEO	SENIAL NOMBER

# Z | 01 छ | छ |

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

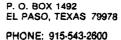
Section 34: NE/4

Total number of acres in Participating Area:

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

13,924.91

100.00% 100.00% 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

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

# SCHEDULE XIX

'ਸ e e	SF 080675	SF 080674	5	SERIAL NUMBER
T-27-N, R-4-W Sec. 17: W/2 SW/4 Sec. 18: N/2 SE/4 Sec. 19: Lots 2, 3, SE/4 SW/4	T-27-N, R-4-W Sec. 27: All Sec. 28: All Sec. 33: All Sec. 34: W/2, NI	T-27-N, R-4-W Sec. 16: All Sec. 21: All Sec. 22: All		DESCRIPTION
321.13 /4 /4 /4 , 3, 4,	2400.00	1920.00	1, 2, NE/4 SE/4	NUMBER OF ACRES
Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI; TOTAL	Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership T. H. Harrington, Title Agent ORRI;	Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI; TOTAL	OWNERSHIP  TRACT 10
12.50% 82.50% 5.00%	12.50% 41.25% 41.25% 5.00%	12.50% 41.25% 27.50% 13.75% 5.00%	12.50% 41.25% 41.25% 5.00%	PERCENTAGE
12.50% 82.50% 5.00%	12.50% 41.25% 41.25% 5.00%	12.50% 41.25% 27.50% 13.75% 5.00%	12.50% 41.25% 41.25% 5.00%	PERCENTAGE
2.476798%	18.510620%	14.808496%		PRESENT ACTUAL PARTICIPATION  9.867163%

# SCHEDULE XIX

PARTICIPATION	COMMITTED	PERCENTAGE	OWNERSHIP	OF ACRES		
PRESENT ACTUAL	PERCENTAGE	OCK	DRILLI	NUMBER	DESCRIPTION	

# RECAPITULATIO

# 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:

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

100.00% 100.00% 100.00%

12,965.53

OIL CONSCIEVATION DIVISION

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

JUL 3 0 1981

5546

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:

NMOCD. 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 here-with.

Yours very truly,

JOE D. RAMEY Director

JDR/EP/fd
enc.

cc: U.S.G.S. - Albuquerque

Commissioner of Public Lands

EIPaso NATURAL GAS COMPANY

554

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 UL CUNULA IL DIVISION SANTA FE

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:

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

Ton. Carrywest

D. N. Canfield
Attorney-in-Fact

DNC/RJH/en Attachments San Juan 27-4 Unit, 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 Oil Conservation Division	
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

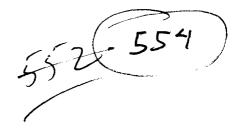
Mr. M. A. Romero



# United States Department of the Interior

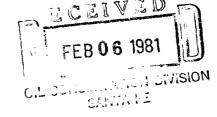
GEOLOGICAL SURVEY
South Central Region
P. O. Box 26124
Albuquerque, New Mexico 87125

0 3 FEB 1981



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 **79**978

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

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



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 554 01C 341 12/1/80

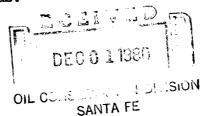
Re: San Juan 27-4 Unit #14-08-001-1054 Rio Arriba County, New Mexico

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.



Area Oil and Gas Supervisor Oil Conservation Division Page Two

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	2
Completed in the Mesaverde Only	
Gallup/Dakota, Being Evaluated	1
Mesaverde, Non-Commercial	1
Plugged and Abandoned, Dakota	
Plugged and Abandoned, Mesaverde/Dakota	1
Plugged and Abandoned, Mesaverde,	1
Recompletion Dakota	
	133

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.

Well	Drilling Block	Formation
#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.

Area Oil and Gas Supervisor Oil Conservation Division Page Three

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 9x. Attorney-in-Fact

DNC/JL/en Attachments 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 Oil Conservation Division	
APPROVED:  Oil Conservation Division Subject to like approval by the	DATE: /2/8/80

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



P. O. BOX 1492 EL PASO, TEXAS 79978

PHONE: 915-543-2600

554

September 15, 1980

Area Oil and Gas Supervisor United States Geological Survey P. O. 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

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 Landman

Land Department

Jan Leon

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



### United States Department of the Interior

GEOLOGICAL SURVEY

South Central Region
P. 0. Box 26124
Albuquerque, New Mexico 87125

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: NMOCD, Santa Fe



### State of New Mexico







Commissioner of Public Lands
January 14, 1980

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

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 enc1.

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

SS4 for approval

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

1980 Drilling Program

entlemen:

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,

Attorney-in-Fact

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:		DATE:_	
	Regional Oil and Gas Supervisor United States Geological Survey Subject to like approval by the		
	Oil Conservation Division		
APPROVED:	Oil Conservation Division Subject to like approval by the	DATE:_	2/21/80
	United States Geological Survey		

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.

Rogional Oil and Gas Supervisor Oil Conservation Division Page Two

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

Well	Drilling Block	Formation
#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.



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

Drilling Block	Acres	Well No.
T-27-N, R-4-W 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

Regulatory Agencies December 5, 1979 Page Two

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

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

7 21.71 (2.72)

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

		DRILLING BLOCK	\ \	PERCENTAGE	PRESENT ACT
HAL NUMBER	DESCRIPTION OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATI(
		TRACT 1			
78 015297	T-27-N. R-1-W Sec. 1: Lots 3, 4,	Royalty;	12.50%	12.50%	2.854313%
	S/2 NW/4, SW/4	Working Interest: El Paso Natural Gas Co.;	85.75%	85.75	
		URKI; TOTAL	100.00%	100.00%	
		TRACT 2			
3F 079527	T-27-N, R-4-W 1280.00 Sec. 26: All	Royalty;	12.50%	12.50%	11.420465%
		El Paso Natural Gas Co.; ORRI;	85.75%	83.75% 5.75% 100.00%	
SF 080663	T-27-N. R-1-W 639.20	TRACT 4			
	Lots 3, 4, S/2 NW/4	Royalty; Working Interest:	12.50%	12.50%	5.703095%
	Sec. 9: W/2	El Paso Natural Gas Co.; PWG Partnership ORRI;	41.25%	41.25% 5.00%	
		TRACT 5		100.00%	
SF 080669	-N. R- 17:	Royalty;	12.50%	12.50%	18.565750%
	Sec. 18: LOUS 1, 2, E/2 NW/4 NE/4, S/2 SE/4	Norking interest:  El Paso Natural Gas Co.;  DEC Darrocchia	41.25%	41.25%	
·	Sec. 19: Lot 1, E/2 NW/4, NE/1 SW/4, E/2 Sec. 20: All	ORRI; TOTAL	5.005	5.00° 5.00° 100.00°	
Effective September	ptember 1, 1978	. PAGE 1			

## IT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

SCHEDULE XXIV

		0.505	מאור רואט פרסכע	~	PERCENTAGE	PRESENT ACTU
RIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATIC
3F 080670	-N - R	1924.72		12.50%	12.50%	17.172810°
	Sec. 30: All Sec. 31: All		Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI;	41.25%	41.25% 41.25% 5.00%	
			TOTAL TRACT 8	100.00%	100.00%	
F 080671-4	T-27-N, R-1-W Sec. 11: W/2	320.00		12.50%	12,50%	2.8551163
			Working interest.  El Paso Natural Gas Co.; ORRI;	\$2.50% \$.00% 100.00%	\$2.50% \$.00% 100.00%	
SF 080672	T-27-N, 8-4-W Sec. 14: W/2	00.096	Royalty;	12.50%	12.50%	8.565349%
		•	El Paso Natural Gas Co.; PWG Partnership ORRI;	41.25% 41.25% 5.00% 100.00%	41.25% 41.25% 5.00% 100.00%	
SF 080673	T-27-N, R-1-W Sec. 6: Lots 1	2241.52 1,2,5,4,5, 56/4 NW/4	Royalty;	12.50%	12.50%	19.999376
	S/2 NE SE/4	S/2 NE/4, E/2 SN/4, SE/4	L.J	41.25% 41.25% 5.00%	41.25% 41.25% 6.00%	
	Sec. 7: Lots 1 W/2, E Sec. 5: Lots 1	Lots 1,2,5,4, E/2 W/2, E/2 (A11) Lots 1,2, S/2 NE/4,	TOTAL TOTAL	100.00%	100.003	
Effortive Se	SE/4 Sec. 8: All September 1, 1978	8				

## SCHEDULE XXIV

1010		NUNBER	DRILLING BLOCK	OOK	PERCENTAGE	PRESENT ACT
משמים שלוי	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATI
	1		TEACT 11			
F 080674	R	00.019				5.710233%
	Sec. 15: E/2			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%	
		•		2.75%	2.75%	
			F. Eugene Harrington	2.75%	2.75%	
			James V. Harrington	2.75%	1 67 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	-		$\neg$	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	2	
				5.00%	\$ CO . W	
			TOTAL	100.003	100.002	
			7. F. J.			
3F 080673	第一サービー パーピロート	320.00	1			2.8551163
	Sec. 33: 1:/7	; ; ;	Boyaltw.	17 505	17 1100	) )
			Working Interest:	I	00.1	
			(	•	97.0	
			El Maso Natural Gas Co.;	41.253	41.15%	
			PNG Partnership	27.50%	27.50%	
				2.75%	2.75%	
			Gerald E. Harrington	2.75%	2.75%	
		•		2.75%	2.75%	
			James V. Harrington	2.75%	2.75%	
		-		2.75%	2, 75%	
•			ORKI;	5.00%	5.00%	
		٠	TOTAL	100.00%	100.003	
ı			TRACT 13			
<b>ပ</b>	-ٰN ہ	321.13				7.867598.7
	Sec. 17: N/2 SK/4	N/4	Royalty;	12.50%	1,2.50%	
	19:	2.3,4,	El Paso Natural Gas Co.;	82.50%	82.50%	
	SE/1 SW	SW/4	ORRI	5.00.5	5.00.	
			TOTAL	100.005	100.005	
Effective Sep	September 1, 1978		PAGE 3			

PAGE 3

21-71 (2.72)

		NUVOER	DRILLING BLOCK	¥Ů	PERCENTAGE	PRESENT ACTU
Σ Σ Σ Σ Σ	מטוי דיי איניטי	OF ACRES	OWHERSHIP	PERCENTAGE	COMMITTED	PARTICIPATIO
					-	
			TRACT 14			
1:	T-27-N. R-4-W	160.63				1.433179%
	Sec. 18: Lots 5,4	_	Royalty;	12,50%	12.50%	
	E/2	SI:/4	Working Interest;			٠
	•		El Paso Natural Gas Co.;	82.00%	82.00%	
		٠	ORRI:	2.50%	2.50%	
			TOTAL	100.00%	100.00%	

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PRESENT ACTU.

PECCENTAGE COMMITTED

PERCENTAGE

DRILLING BLOCK

OWHERSHIP

NUMBER OF ACRES

DESCRIPTION

AL NUMBER,

Description of Lands in Participating Area:

	, W/2	E/2		A11	11,207.95
Σ.	İ				Area:
North, Range 4 West, N.M.P.M.	4, 9, 11, 14, 16, 35:	15:	7, 8, 17, 18, 19, 20, 23,	29, 30, 31, 36:	of Acres in Participating
27	1,	s,	, 9	26,	io e r
Township	Sections	Sections	Sections 6		Total Numi

PAGE S



### United States Department of the Interior

### P. O. Box 26124 Albuquerque, New Mexico 87125

FEB 2

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

### 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 malls, 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 approvalyby the appropriate officials of the State of New Mexico.

Sincerely yours,

ORIO SIGNED JACH WILLCOK

2011 and Gas Supervisor, SRMA

Enclosures (3)

NMOCD, Santa Fe (litr. only)
Com. Pub; Cands, Santa Fe (ltr. only)

OH COME TO THE TANKIN

### 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



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

### 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 approve 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	_1
	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 Jum. Director of Land

Energy Resource Development

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

cc: Commission of Public Lands (Information Only)

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

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 L 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

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

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

### 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

Drilling Block	Acres	Well No.
T-27-N, R-4-W		
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

James Clement

Manger, 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

il Paso Natural Gas Company JNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN Form 21-71 (2-72)

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

			TING 1-17 MIGG MAG	700		
SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DAILLING BLOCK	PERCENTAGE	COMMITTED	PRESENT ACTUAL
			TRACT 1			
NM 013297	T-27-N, R-4-W Sec. 1: Lots 3,4,	319.91	Royalty;	12.50%	12.50%	3.121698%
	S/2 NW/4 SW/4	^	Working Interest: El Paso Natural Gas Co.;	83.75%	83.75%	
			ORRI; TOTAL	3.75% 100.00€	$\frac{5.75\%}{100.00\%}$	
			TRACT 2			
SF 079527	ای	1280.00	Royalty;	12.50%	12.50%	12.490303%
	Sec. 56: All		Working Interest: El Paso Natural Gas Co.;	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	85.75%	
			UKKI; TOTAL	100.003	55%	
			, TRACT 4			
SF 080668	T-27-N, R-4-W Sec. 4: Lots 5,4	519.20	Royalty;	12.50%	12.50%	5.1147698
	S/2 NW/4 SW/4	ĵ	working interest: El Paso Natural Gas Co.; PWG Partnership	41.25% 41.25%	41.25% 41.25%	
			ORRI; TOTAL	5.00% 100.00%	5.00%	
			TRACT 5			
SF 080669	T-27-N, R-4-W Sec. 17: NW/4, E	7-N, R-4-W 2080.84 17: NW/4, E/2 SW/4, E/2	Royalty; Working Interest:	12.50%	12.50%	20.3049395
	NE/4, S	5/2 SE/4		41. 25. 21. 21.	41.25°	
	Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2 Sec. 20: All	Lot 1, E/2 NW/4, NE/4 SW/4, E/2 All	ORRI;	5.00° 5.00° 100.00%	5.00% 5.00% 100.00%	
Effective September 1, 1977	ember 1, 1977		Page 1			

El Paso Natural Gas Company
JINJT AREA EXPANSION SCHEDULE – SAN JUAN BASIN
Form 21-71 (2-72)

## SCHEDULE XXII

		NUMBER	DRILLING BLOCK	OCK	PERCENTAGE	PRESENT ACTUA
SERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
CE 080670	T_77_N R_A_W	1924 72	TRACT 6			10 7016120
0.0000	Sec. 29: All	7/	Royalty;	12.50%	12.50%	10./01313%
	Sec. 31: All		working interest: El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	41.25%	41.25%	
			UKKI; TOTAL	5.00%	5.00%	
2 TE 080671-1	T_27_X B_4_R	320.00	TRACT 8			1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,
	Sec. 11: W/2	00.00	Royalty;	12.50%	12.50%	3.1223/00
			Morking interest: El Paso Natural Gas Co.;	82.50%	82.50%	
			URKI; TOTAL	$\frac{5.00\$}{100.00\$}$	$\frac{5.00\%}{100.00\%}$	
C19080 HS	7-1-0 V-7-7	6.10 00	TRACT 9			2751516
	Sec. 14: W/2	0	Royalty;	12.50%	12.50%	0.2451518
	1 /		El Paso Natural Gas Co.;	41.25%	11.25%	
			FNG FAI UNEISHIP ORRI	5.00%	5.00%	
			TOTAL	100.00%	100.000	
SE OSOK 3	7-1-0 V-1-1	CZ 1760	TRACT 10			31 S C T S C
	Sec. 6: Lots 1, 2, 3, 4, 5,	2,5,4,5,	Royalty;	12.50%	12.50%	-1.07.5002.0
	0,', 3E S/2 NE/ SE/4	4, E/2 SW/4,	NOTATING INTERFEST: El Paso Natural Gas Co.; PWG Partnership	41.25% 41.25%	10 CC	
	1		.; ; ; ;	5.00%	5.00%	
	Sec. 7: Lots 1, W/2, E/	Lots 1,2,3,4, E/2 W/2, E/2 (A11)	TOTAL	100.00%	100.00%	
	Sec. 5: Lots 1,	2, S/2 NE/4,				
	Sec. 8: All		C			
			Page 1			

### SCHEDULE XXII

		NUMBER	DRILLING BLOCK	)CK	PERCENTAGE	PRESENT ACTUA
SERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENT AGE	COMMITTED	PARTICIPATION
			TRACT 11			
SF 080674	T-27-N, R-4-W Sec. 15: E/2	320.00	Royalty;	12.50%	12.50%	3.122576%
			Interest;	, r.		
				27.:0%	41.23% 27.50%	
			~	12.75%	2.75%	
			Gerald E. Harrington F. Eugene Harrington	7. C. W.	2. 1. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	
			-	) () (	2.75%	
			Mary Jone Chappell ORRI:	5.73%	2.75%	
			TOTAL	100.00%	100.00%	
			TRACT 12			
SF 080675	T-27-N, R-4-W	320.00	Rova 1 tv.		, , , , , , , , , , , , , , , , , , ,	3.1223768
	100 · 00 · 000		Working Interest:	ı	1	
			El Paso Natural Gas Co.;	41.25	41.25%	
			PWG Partnership T H Hommington	27.50%	27.50%	
			Gerald E. Harrington		1 Cl	
			a	17	50.1.0	
			James V. Harrington	60 c. (. (. (. (. (. (. (. (. (. (. (. (. (.	C1 (	
				5.005	500 IS	
			TOTAL	100.005	100.00	
			TRACT 13			
Foe	T-27-N, R-4-W Sec. 17: W/2 SW	321.13 W/4	Rovaltv:	12.50%	305 61	5.1336028
	Sec. 18: N/2 SE/4	· +/u	Working Interest:	,	•	
		2,3,4, SW/4	El Paso Natural Gas Co.; ORRI; TOTAL	$\frac{82.50\%}{5.00\%}$	\$2.50% 5.00% 100.00%	
			) Mid 3 1			

El Paso Natural Gas Company
(JNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN
Form 21:71 (2:72)

## SCHEDULE XXII

		NUMBER	DRILLING BLOCK	OCK	PERCENTAGE	PRESENT ACTUA
SERIAL NOMBER		OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
			TRACT 14			
Fee	T-27-N, R-4-W	160.63				1.567435%
	Sec. 18: Lots 3,4,	,4,	Royalty;	12.50%	12.50%	
	E/2 SW	/4	Working Interest;			
			El Paso Natural Gas Co.;	85.00%	85.00%	
			ORRI;	2.563	2.50%	
			TOTAL	100.00%	100.00%	

## SCHEDULE XXII

	NO FOR OUR DESCRIPTION OF THE PROPERTY OF THE	NUMBER	DRILLING BLO	OCK	PERCENTAGE	PRESENT ACTUA
SERIAL NOMBER		OF ACRES	OWNERSHIP		COMMITTED	

## $\underline{R} \ \underline{E} \ \underline{C} \ \underline{A} \ \underline{P} \ \underline{I} \ \underline{T} \ \underline{U} \ \underline{L} \ \underline{A} \ \underline{T} \ \underline{O} \ \underline{N}$

Description of Lands in Participating Area:

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

Total Number of Acres in Participating Area: 10,247.95

El Paso Natural das Company UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN Form 21-71 (2-72)

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

		NUMBER REP	DRILLING BLOCK	LOCK	PERCENTAGE	PRESENT ACT
SERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENT AGE	COMMITTED	PARTICIPATIC
			TRACT 1			
NM 013297	T-27-N, R-4-W Sec. 1: Lots 3,4	319.91	Royalty;	12.50%	12.50%	3.027172%
	S/2 NW/4 SW/4		Working Interest: El Paso Natural Gas Co.;	83.75 7.75 9.99	83.75%	
			UNNI, TOTAL	100.00%	100.008	
			TRACT 2			
SF 079527	-N, R- 26:	1280.00		12.50%	12.50%	12.112094%
	Sec. 36: All		Working interest: El Paso Natural Gas Co.; ORRI:	80 ೧. ೧ ೧. ೧೮ ೧. ೧೮	83.75% 3.75%	
			TOTAL	100.005	100.008	
			TRACT 4			
SF 080668	T-27-N, R-4-W Sec. 4: Lots 5,4	519.20		12.50%	12.50%	5.020454%
	SW/4	ĵ	MOINTING INCERESC. E1 Paso Natural Gas Co.; PWG Partnership	+ 1 . 1 . 25	11. 2000 2000 2000 2000 2000	
			TOTAL	100.00	100.00%	
			TRACT 3			
SF 080669	T-27-N, R-4-W Sec. 17: NW/1, E	R-4-W 2080.84 : NW/4, E/2 SW/4, E/2	Royalty;	12.50%	12.50%	19.690101%
	0	2, E/2 Mn/4, 3/2 SE/4	NOINING INCERESC. El Paso Natural Gas Co.; DMG Partnershin	41.25 25.25 27.25	11.25%	
<b></b> -	Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2 Sec. 20: All	E/2 NW/4, ;/4, E/2	ORRI; TOTAL	5.00%	5.00%	
Effective	Effective October 1, 1977		Page 1			

Ei Paso Natural Gas Company UMIT AREA EXPANSION SCHEDULE – SAN JUAN BASIN Form 21-71 (2-72)

### SCHEDULE XXII

		GEOMIN	NOC IN UNIT INCOME.		DON'T HADOUD	AUTO A THUBBOOK
SERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
SF 080670	T-27-N, R-4-W Sec. 29: A11	1924.72	Royalty;	12.50%	12.50%	18.212804%
	Sec. 30: A11 Sec. 31: A11		Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI; TOTAL	$41.25\%$ $41.25\%$ $5.00\%$ $\overline{100.00\%}$	$\begin{array}{c} 41.25\% \\ 41.25\% \\ 5.00\% \\ \hline 100.00\% \end{array}$	
SF 080671-A	T-27-N, R-4-W Sec. 11: W/2	520.00	Royalty; Working Interest:	12.50%	12.50%	5.028023%
			El Faso Natural Gas Co.; ORRI; TOTAL	5,00% 100.00%	$\frac{82.303}{5.00\%}$	
SF 080672	T-27-N, R-4-W Sec. 14: W/2 Sec. 25: All	960.00	Royalty; Working Interest:	12.500	12.50%	9.084070%
			El Paso Natural Gas Co.; PWG Partnership ORRI;	41.25% 41.25% 5.00% 100.00%	$\frac{11.25\%}{41.25\%}$ $\frac{5.00\%}{100.00\%}$	
SF 080673	T-27-N, R-4-W Sec. 6: Lots 1,2 6,7, SE/	R-1-W 2241.52 Lots 1,2,5,4,5, 6,7, SE/4 NW/4,	Royalty; Working Interest:	12.50%	12.50	21.21054-%
	1	S/2 NE/4, E/2 SW/4, SE/4 Lots 1,2,5,4, E/2 W/2, E/2 (All)	El Paso Natural Gas Co.; PWG Fartnership ORRI; TOTAL	41.25% 41.25% 5.00% 100.00%	41.25% 5.00% 100.00%	
Sec. 5: Lots Sec. 8: All Effective October 1, 1977	Sec. 5: Lots 1,2 SE/4 Sec. 8: All ober 1, 1977	2, S/2 NE/4,	Page C			

# UNIT AREA EXPANSION SCHEDULE – SAN JUAN BASIN Form 21-71 (2-72)

### SCHEDULE XXII

		NUMBER	DRILLING BLOCK	OCK	PERCENTAGE	PRESENT ACTU
SERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATIO
			TRACT 11			
SF 080674	T-27-N, R-4-W	320.00				3.028023%
	Sec. 15: E/2			12.50%	12.50%	
			•• •	41 256	41 250	
			EI Faso Natural Gas CO.,	٠	77 50%	
			T. H. Harrington	2,75%	2.75%	
			Gerald E. Harrington	2.75%	2.75%	
			F. Eugene Harrington	2.75%	2.75%	
			يبلن	7.75%	2.75%	
			Mary Jone Chappell	7.75%	2.75%	
			UKKI; TOTAL	$\frac{5.003}{100.005}$	5.00%	
	; ; ;		TRACT 12			
SF 0806.5	M-1-N, K-1-N	220.00	No. 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	% U	305 61	5.028023%
			Norking Interest;	i	1	
			El Paso Natural Gas Co.;	+1.75%	41.25%	
			PWG Partnership	68 e 00 t 10 t	2.50%	
			H	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	C4 C	
				% % % M III	% 0 L	
			F. Eugene Harrington	ე ი ე ი ე ი	7 C	
			Nary Jone (hannel)	) () ) () ) ()	1 C	
			ORRI	5.00%	5.00%	
			TOTAL	100.008	100.005	
			TRACT 13			
Fee	-N, R	521.15				5.0287168
	Sec. 17: W/2 SW/4	*/4 */3	Royalty;	12.50%	12.50%	
		, t.	El Paso Natural Gas Co.:	82.50%	82.50%	
		SW/4		5.00%	5.00%	
Effective October 1,	ober 1, 1977		TOTAL Page 3	100.00%	100.00%	
			) 10 5			

El Paso Natural Gas Company
UNIT AREA EXPANSION SCHEDULE – SAN JUAN BASIN
Form 21-71 (2-72)

### SCHEDULE XXII

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

EI Paso Natural Gas Company
UNIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN
Form 21-71 (2-72)

### SCHEDULE XXIII

	NOTEGIGLOUS	NOMBER	DRILLIN		PERCENTAGE	PRESENT ACTUA
SENIAL NUMBER	2021	OF ACRES	OWNERSHIP	IIP PERCENTAGE	COMMITTED	PARTICIPATION

# RECAPITULATION

Description of Lands in Participating Area:

	W/2	E/2	•	A11	ea: 10,567.95
Township 27, North, Range 4 West, N.M.P.M.	Sections 1,4,11,14,33:	Sections 5,15:	Sections 6,7,8,17,18,19,20,23,26,29,50,31,	36:	Total Number of Acres in Participating Area: 10,567.95



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.

I apologize for any inconvenience this omission has caused you.

Very truly yours,

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

R CC 1978



P.O. BOX 1492 — ELPAGOLIEXASI 19978 (C) PHONE \$45-843-2600

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 M. 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

UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

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

	NO FOR GOOD	NUMBER	DRILLING BLOCK	X	PERCENTAGE	PRESENT ACTUA
SENIOR NOMBER	בפסוון	OF ACRES	OWNERSHIP	PERCENT AGE	COMMITTED	PARTICIPATION
SF 079527	أغث	1280.00	Royalty;	12.50%	12.50%	10.122154%
	Sec. 26: All Sec. 36: All		Working Interest: El Paso Natural Gas Co.; ORRI;	83.75%	83.75%	
			TOTAL	100.00%	100.00%	
0//000 10	H 27 N D 7 H	1000	TRACT S			15.185999%
SF 080669	Sec. 17: E/2 N	W/4, E/2 SW/4	Royalty;	12.50%	12.50%	
	Sec. 18: NE/4, S/2 SE/4 Sec. 19: Lot 1, E/2 NW/4,	S/2 SE/4 , E/2 NW/4,	Working Interest: El Paso Natural Gas Co.;	82.50%	82.50%	
	NE/4 Sec. 20: All	SW/4, E/2	ORRI; TOTAL	5.00%	5.00%	
	i t	1	TRACT 6			20.281633%
SF 080670	N, K 29:	2564.72	Royalty;	12.50%	12.50%	
	Sec. 30: Lots E/2 W	1,2,5,4, V/2, E/2 (A11)	NOTKING INTERFESC: El Paso Natural Gas Company; DWG Dartnershin	41.25%	41.25%	
		E/2 W/2, E/2 (A11) A11		5.00% 100.00%	5.00%	
CE 2000 H2	2	700	TRACT 9			10.122154%
SF 0000/2	Sec. 23: All	1200.00		12.50%	12.50%	
	Sec. 24: All		Working interest: El Paso Natural Gas Co.; PWG Partnership	41.25%	41.25%	
			ORRI; TOTAL	5.00%	5.00%	

Effective 9-1-77

### SCHEDULE XVIII

		NUMBER	DRILLING BLOCK		PERCENTAGE	PRESENT ACTUA
SERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
OB 000677	T 27 N D 4 E	22 0401	TRACT 10			10.116856%
5 / 0000 Jo	Sec. 5: Lots 1,	12/3.33 , 2, // CT/4		12.50%	12.50%	
	Sec. 7: E/2 Sec. 8: All	S/2 NE/4 SE/4 E/2 All	Working interest: El Paso Natural Gas Co.; PWG Partnership	41.25% 41.25%	41.25%	·
			ORRI; TOTAL	5.00%	5.00%	
SF 080674	T-27-N. R-4-W	1.600.00	TRACT 11			12.652692%
	Sec. 16: W/2		Royalty;	12.50%	12.50%	
	22:			41.25%	41.25%	
			PWG Partnership T. H. Harrington, Title Agent	27.50% 13.75%	27.50% 13.75%	
				$\frac{5.00\%}{100.00\%}$	5.00%	
			TRACT 12			18.979038%
SF 080675	N, R- 27:	2400.00	• •	12.50%	12.50%	
	Sec. 33: All Sec. 34: W/2 N	NE/4	Working interest: El Paso Natural Gas Co.; PWG Partnershin	41.25%	41.25%	
		r Si	ORRI; TOTAL	5.00% 100.00%	5.00% 5.00% 100.00%	
0 0	W-A-G N-77-T	201 12	TRACT 13			2.539474%
)	1	321.13 N/4 E/A		12.50%	12.50%	
	19:	E/4 2,3,4, SW/4	Norking interest: El Paso Natural Gas Co.; ORRI:	82,50%	82.50%	:
Effective 9-1-77			TOTAL	100.00%	100.00%	
			Page 2			

# RECAPITULATION

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

12,645.53 Total number of acres in Participating Area:

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



P.O. BOX 1492 EL PASO. TEXAS 79978 PHONE 35:049:2000

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

El Paso Natural Gas Company \_URIT AREA EXPANSION SCHEDULE — SAN JUAN BASIN Form 21-71 (2-72)

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

SF 080672	SF 080670	SF 080669	SF 079527	SERIAL NUMBER
T-27-N, R-4-W Sec. 23: All Sec. 24: All	T-27-N, R-4-W Sec. 29: All Sec. 30: Lots E/2 W Sec. 31: Lots E/2 W Sec. 32: All	T-27-N, R-4-W Sec. 17: E/2 N Sec. 18: NE/4, Sec. 19: Lot 1 NE/4 Sec. 20: All	T-27-N, R-4-W Sec. 26: All Sec. 36: All	DESCRIPTION
1280.00	A11 Lots 1,2,3,4, E/2 W/2, E/2 (A11) Lots 1,2,3,4, E/2 W/2, E/2 (A11) A11	4-W 1920.35 E/2 NW/4, E/2 SW/4 NE/4, S/2 SE/4 Lot 1, E/2 NW/4, NE/4 SW/4, E/2 All	1280.00	NUMBER OF ACRES
Royalty; Working Interest: El Paso Natural Gas PWG Partnership ORRI;	Royalty; Working Interest: El Paso Natural Gas PWG Partnership ORRI;	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTA	OWNERSHIP
TRACT 9 Co.; TOTAL	TRACT 6 Company; TOTAL	TRACT 5 Co.; TOTAL	TRACT 2 Co.; TOTAL	DRILLING BLOCK
12.50% 41.25% 41.25% 5.00%	12.50% 41.25% 41.25% 5.00%	12.50% 82.50% 5.00%	12.50% 83.75% 3.75% 100.00%	PERCENTAGE
12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	12.50% 83.75% 3.75% 100.00%	PERCENTAGE COMMITTED
10.122154%	20.281633%	15.185999%	10.122154%	PRESENT ACTUAL PARTICIPATION

Effective 9-1-77

## SCHEDULE XVIII

Effective 9-1-77	Fee	SF 080675	SF 080674	SF 080673	SERIAL NUMBER
1-77	T-27-N, R-4-W Sec. 17: W/2 Sec. 18: N/2 Sec. 18: N/2 Sec. 19: Lots	T-27-N, R-4-W Sec. 27: All Sec. 28: All Sec. 33: All Sec. 34: W/2	T-27-N, R-4-W Sec. 16: W/2 Sec. 21: A11 Sec. 22: A11	T-27-N, R-4-W Sec. 5: Lots S/2 NJ Sec. 7: E/2 Sec. 8: All	DESCRIPTION
	-4-W 321.13 W/2 SW/4 N/2 SE/4 Lots 2,3,4, SE/4 SW/4	2400.00 NE/4	1,600.00	R-4-W 1279.33 Lots 1, 2, S/2 NE/4 SE/4 E/2 All	NUMBER OF ACRES
	Royalty: Working Interest: El Paso Natural Gas Co.; ORRI;	Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership ORRI; TOTAL	Royalty; Working Interest: El Paso Natural Gas Co.; PWG Partnership T. H. Harrington, Title Agent ORRI;	Royalty; Working Interest: E1 Paso Natural Gas Co.; PWG Partnership ORRI; TOTAL	DRILLING BLOCK
	12.50% 82.50% 5.00%	12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25° 27.50% 13.75% 5.00%	12.50% 41.25% 41.25% 5.00%	PERCENTAGE
	12.50% 82.50% 5.00%	12.50% 41.25% 41.25% 5.00% 100.00%	12.50% 41.25% 27.50% 13.75% 5.00% 100.00%	12.50% 41.25% 41.25% 5.00% 100.00%	PERCENTAGE COMMITTED
	2.539474%	18.979038%	12.652692%	10.116856%	PRESENT ACTUAL PARTICIPATION

Page 2

### REC APITULAT NOI

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:

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

12,645.53

100% 100% 100%



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

M. 554

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, E1 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 Time 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

Fage Two March 31, 1978

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



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 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 Areafor 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

기 AREA EXPANSION SCHEDULE — SAW JUAN BASIN 21강: (한한)

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

	-	BER	DRILLING BLOCK		PERCENTAGE	PRESENT ACTU-
AL NUMBER	DESCRIPTION OF AC	OF ACRES	1	PERCENTAGE	COMMITTED	PARTICIPATION
CE 070597		00 080	TRACT 2			10.384949%
7766/D JC	Sec. 26: All	20.0	• •	12.50%	12.50%	
	Sec. 30: All		working interest: El Paso Natural Gas Co.; ORRI:	83.75%	83.75%	
			TOTAL	100.00%	100.00%	
099000 15	2021 W A G W 70 T	36	TRACT 5			13.633085%
Sr (180009	Sec. 17: E/2,NW/4, E/	7. SW/4		12.50%	12.50%	
	Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2	. 2	working interest: El Paso Natural Gas Co.; Oppi:	82.50%	82.50%	
	) Sec. 20: All		UNKI; TOTAL	100.00%	100.00%	
0000		7	TRACT 6			20.80819%
SF 0806/0	,	7/.4007	Royalty;	12.50%	12.50%	ACC1000:07
•	Sec. 30: Lots 1,2,3,4 E/2 W/2, E/2 (All)	4 ·	Working Interest: El Paso Natural Gas Company;	41.25%	41.25%	
	Sec. 31: Lots 1,2,3, E/2 W/2, E/2 (All) Sec. 32: All	<b>6</b>	ORRI; TOTAL TOTAL	5.00%	5.00%	
			TRACT 9			9040404
SF 0806/2	Sec. 23: A11	1280.00	Royalty;	12.50%	12.50%	10.3649494
			Working interest: El Paso Natural Gas Co.; PWG Partnership	41.25%	41.25%	
÷,			ORRI; TOTAL	5.00%	5.00%	
٠						

Effective 9-1-77

-		CHOOKING	200 IO ONI - 1100			
AL NUMBER	DESCRIPTION	OF ACRES	.].	PERCENTAGE	COMMITTED	PRESENT ACTUA
SF 080673	T-27-N. R-4-W	1279.33	TRACT 10			10.379513%
	5:	1,2,	Royalty;	12.50%	12.50%	
	S/2 NE/4, SE/	4	Interest			
	7:			41.25%	41.25%	
	Sec. 8: All		P#G Bartnership	41,25%	41.25%	
		,	UKKI; TOTAI.	2.00%	5.00%	
			TRACT 11			
SF 080674	χ. Α	1,600.00				12.981186\$
	19		Royalty;	12.50%	12.50%	
	21:		Working Interest:		•	. 1
	22:		El Paso Natural Gas Co.;	41.25%	41.25%	
			PWG Partnership	27.50%	27.50%	
			T. H. Harrington, Title Agent	13.75%	13.75%	
			ORRI;		5.00%	
			TRACT 12 TOTAL	AL 100.00%	100.00%	
SF 080675	T-27-N, R-4-W	2400.00				19.471779%
	27:		Royalty;	12.50%	12.50%	
			Working Interest:	•		
				41.25%	41.25%	
	34: W/2,	NE/4	- 17	41.25%	41.25\$	
			ORRI;	5.00%	5.00%	
				100.00%	100.00%	
			TRACT 13			1 0563468
Fee	T-27-N, R-4-W	241.13			1	01:00:01 1:00:01
	Sec. 19: Lots 2,3,	_	Royalty;	12.50%	12.50%	
	SE/4 SW/4		Working Interest:			
	Sec. 17: W/2 SI	N/4	El Paso Natural Gas Co.;	82.50%	82.50%	
				5.00%	5.00%	
			TOTAL	100.00%	100.00%	

Effective 9-1-77

# 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%



P. O. BOX 1492 EL PASO, TEXAS 79978

PHONE: 915-543-2600

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 Commissioner of Public Lands Oil Conservation Commission January 27, 1978 Not Applicable 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 27 1978

no. 554

El Paso Natural Gas Company Attention: Mr. D. M. Canfield P. O. Box 1492 El Paso, Texas 79078

### Gentlemen:

The 1973 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,

Enclosures

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

### 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

### **NATURAL GAS**

1 1 3P. 9. BOX 1492 EL RASO 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

San Juan 27-4 Unit #14-08-001-1054

Rio Arriba County, New Mexico

1978 DRILLING PROGRAM

Mo. 554 approve

### 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. Pictured Cliffs/Mesaverde well No. 123 was drilled within the existing Mesaverde Participating Area and will not cause an expansion. Pictured Cliffs Formation is currently being evaluated to determine if an expansion of that Participating Area will be cause 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 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

Regional Oil & Gas Supervisor Oil Conservation Commission Page Two

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
	$\overline{110}$

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:

Well No.	Formation	Drilling Block for Spacing Unit
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:		DATE:
•	Regional Oil and Gas Supervisor United States Geological Survey	
	Subject to like approval by the	
	Oil Conservation Commission	
	Land for	110100
APPROVED:	All Hamy	DATE: 1//9/78
	Oil Conservation Commission	
	Sybject to like approval by the	
1	Whited States Geological Survey	

The foregoing approvals are for the 197.8 Drilling Program for the San Juan 27-4 Unit #14-08-001-1054, Rio Arriba County, New Mexico.

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership



P.O. BOX 1492 EL PASO, TEXAS 79978

PHONE: 915-543-2600

### 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

UN. 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 mehtod with an after frac guage 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.

AUG 22 1977

CIL CONSERVATION COMM

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 sandwater fracturing process on July 13, 1977. The well was shutin 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 mehtod with an after frac guage 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

James & Perment

JRP:is

Attachment

SJ 27-4, 4.1.1, 4.2.1

c: Mr. Antonio Martinez

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

### E Paso NATURAL GAS COMPANY

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

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 sandwater 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 blowdown 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 P. Permontor

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

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

554

### State of New Mexico







### Commissioner of Public Lands

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: Sam Juan 27-4 Unit
Rio Arriba County, New Mexico
SIXTERNTH 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 Arribe 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

554

### E Paso NATURAL GAS

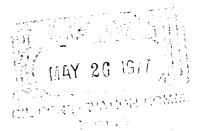
P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-543-2600

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

ones & Plemente

JRP:DM:is

**Enclosures** 

SJ 27-4, 4.1

c: Mr. Antonio Martinez

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

TABEL SNPANSION SCHEDULE - SANJUAN BASIN 2073 (272)

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

0007114		NUMBER	DRILLING BLOCK		PERCENTAGE	PRESENT ACTU
		OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATIC
SF 079527	T-27-M-8-4-H	00 0861	TRACT 2			10.661753%
	Sec. 26: All			12.50%	12.50%	
			working interest: El Paso Natural Gas Co.;	83.75%	83.75%	
			URKI; TOTAL	100.00%	3.753	
099080 45	1-0-0 M-70-T	1680 35	TRACT 5			13 006/67%
5	Sec. 17: E/2,N	7: E/2, NW/4, E/2 SW/4		12.50%	12.50%	0.1040.65.61
	4/4	, E/2 1/4, E/2	working interest: El Paso Natural Gas Co.;	82.50%	82.50%	
			JAKI; TOTAL	3.00% 100.00%	%00.001 100.00%	
029080 35	N_ N_ O N_ 70_ T	2561 72	TRACT 6			21 362822%
0.0000 70	<u>ا</u> ا	,		12.50%	12.50%	270707
	Sec. 30: Lous E/2 W/2, E/2 Sec. 31: 1015		Working incerest: El Paso Natural Gas Company;	82.50%	82.50%	
	CÎ.	(A11)	URKI; TOTAL	%00.00 <u>1</u>	5.00% 100.00%	
SF 080672	T-27-11. R-4-W	1280 00	TRACT 9			10.661753%
	Sec. 23: A11	00.007	Royalty;	12.50%	12.50%	
			El Paso Natural Gas Co.; ORRI;	82.50% 5.00%	82.50% 5.00%	
•	•		TOTAL	100.00%	100.00%	

AL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK OWNERSHIP	PERCENTAGE	PERCENTAGE	PRESENT ACT
SF 080673	T-27-N, R-4-W Sec. 5: Lots	959.33	_	12.50%	12.50%	7.990734%
	<u> </u>	4	Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	
SF 080674	~	1,600.00		12.50%	12.50%	13.327192%
			Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	ı
SF 080675	7-N, R-	2400.00	TRACT 12	ر م م	, O 7.	19.990788%
	Sec. 28: All Sec. 33: All Sec. 34: W/2,	NE/4	Noyalty, Working Interest: El Paso Natural Gas Co.; ORRI;	82.50% 5.00% 100.00%	82.50% $5.00%$ $100.00%$	
ក ត ត	T-27-N, R-4-W Sec. 19: Lots 2,3 SE/4 SW/4 Sec. 17: W/2 SW/4	4-W Lots 2,3,4, 4 4/2 SW/4	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50%	12.50% 82.50% 5.00%	2.008491%

Effective 12-1-76

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Description of Lands in Participating Area:

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

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

12,005.53 Total number of acres in Participating Area:

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

100% 100% 100%

554

### EIPaso NATURAL GAS

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 referened unit was approved by the regulatory bodies on the following dates:

United States Geological Survey Commissioner of Public Lands Oil Conservation Commission March 30, 1977 Not Applicable 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, NN, Room 815
Albuquerque, New Mexico 87102

MAR 3 0 1977

El Paso Natural Gas Company Attention: Mr. D. N. Canfield P.O. Bex 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,

(ORIG. SGD.) ISMES W. SHITHERLAND

Area 011 and Gas Supervisor

**Enclosure** 

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



### DIRECTOR JOE D. RAMEY

### **OIL CONSERVATION COMMISSION**

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

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

Secretary-Director

JDR/JEK/og

cc: U. S. Geological Survey

Box 1857

Roswell, New Mexico

554

E 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

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 & Perment

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



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

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. 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. 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	7
noone to ton bane on	1 <u>06</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:

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

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:		DATE:	
_	Regional Oil and Gas Supervisor United States Geological Survey		

APPROVED: OVI Conservation Commission

Ovi Conservation Commission Subject to like approved by the United States Geological Survey

Subject to like approval by the Oil Conservation Commission

.

DATE: March 30,

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.

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

554



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:

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

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

James & Bermen to

Manager, Land Contracts & Titles

Land Department

Energy Resource Development

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

cc: Mr. Antonio Martinez

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

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

SF 080672	SF 080670	SF 080669	SF 079527	AL NUMBER
T-27-N, R-4-W Sec. 24: All	T-27-N, R-4-W Sec. 29: All Sec. 30: Lots l E/2 W/2, E/2 ( Sec. 31: Lots l E/2 W/2, E/2 ( Sec. 32: All	T-27-N, R-4-W 1440.3 Sec. 17: E/2 Sec. 19: Lot 1, E/2 NW/4, NE/4 SW/4, E/2 Sec. 20: All	T-27-N, R-4-W Sec. 26: All Sec. 36: All	DESCRIPTION
640.00	2564.72 1,2,3,4, (A11) 1,2,3,4, (A11)	1440.35 E/2 4, E/2	1280.00	NUMBER OF ACRES
Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	TRACT 6 Royalty; Working Interest: El Paso Natural Gas Company; ORRI; TOTAL	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	DRILLING BLOCK OWNERSHIP P
12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	12.50% 83.75% 3.75% 100.00%	PERCENTAGE
12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	12.50% 83.75% 3.75% 100.00%	PERCENTAGE COMMITTED
5.967071%	23.912292%	13.429173%	11.934142%	PRESENT ACTUAL PARTICIPATION

### SCHEDULE XV

Fee ·	SF 080675	SF 080674	SF 080673	AL NUMBER
T-27-N, R-4-W Sec. 19: Lots 2,3,4, SE/4 SW/4	T-27-N, R-4-W Sec. 27: All Sec. 28: All Sec. 33: All Sec. 34: W/2, I	T-27-N, R-4-W Sec. 16: W/2 Sec. 21: A11 Sec. 22: A11	T-27-N, R-4-W Sec. 5: Lots 1,2, S/2 NE/4, SE/4 Sec. 8: E/2	DESCRIPTION
161.13 2,3,4,	2400.00 NE/4	1,600.00	639.33	NUMBER OF ACRES
Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	TRACT_10 Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	DRILLING BLOCK
12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00%	PERCENTAGE
12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	PERCENTAGE COMMITTED
1.502303%	22.376517%	14.917678%	5.960824%	PRESENT ACTUA-

### RECAPITULATION

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

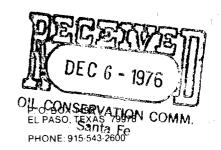
Total number of acres in Participating Area:

10,725.53

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

100% 100% 100%

554



### E 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:

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

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

Drilling Block	Acres	Well No.
T-27-N, R-4-W		<del></del>
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

Clifton Resources, Inc.

General American Oil Company of Texas

Thomas H. Harrington

PWG Partnership

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

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

Fee e	SF 080675	SF 080674	SF 080673	AL NUMBER
T-27-N, R-4-W 20 Sec. 19: Lots 2,3,4, SE/4 SW/4 Sec. 17: W/2 SW/4	T-27-N, R-4-W Sec. 27: All Sec. 28: All Sec. 33: All Sec. 34: W/2, I	T-27-N, R-4-W Sec. 16: W/2 Sec. 21: A11 Sec. 22: A11	T-27-11, R-4-W Sec. 5: Lots 1,2, S/2 NE/4, SE/4 Sec. 8: All	DESCRIPTION
241.13 2,3,4, 1/4	2400.00 NE/4	1,600.00	959.33 1,2,	NUMBER OF ACRES
Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	DRILLING BLOCK
12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00%	PERCENTAGE
12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00%	12.50% 82.50% 5.00%	12.50% 82.50% 5.00%	PERCENTAGE COMMITTED
2.121590%	21.116481%	14.077654%	8.440698%	PRESENT ACTUA

Effective 11-1-76

# 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, 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:

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

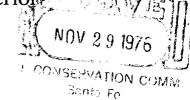
11,365.53

100% 100% 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 2 9 1976

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

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

### Gentlemen:

We are returning herewith unaccepted 5 copies of the FIFTERNIN 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 FOURTEMENT 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 Et Sec. 8, T.27M., R.4W. should have been admitted to the Pictured Cliffs Participating Area with the inclusion of the Et Sec. 17 in the FOURTHRING REPAIRED PARTICIPATING AREA. This omission was inadvertently overlooked at that time. A corrected FOURTHRING REPAIRED PARTICIPATING AREA including the Et 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. SGD.) JAMES W. SUTHERLAND

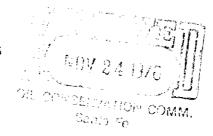
Area Oil and Gas Supervisor

cc:

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

554

### E Paso NATURAL GAS



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

Drilling Block	Acres	Well No.
T-27-N, R-4-W		
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
	960.00	•

<sup>\*</sup>Intervening drilling block caused by the completion of well #73.

Regional Oil and Gas Supervisor Commissoner of Public Lands Oil Conservation Commission November 22, 1976 Page Two

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

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

<sup>\*</sup>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

OFFIGURE - SAN JUAN BASIN OFFIGURE - SAN JUAN BASIN

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

			SOC 18 ON 1 1800	SOO SOO	0 V F 2 U C U U C U C U C U C U C U C U C U C	-A-HOA HARRADAG
ERIAL NUMBER	DESCRIPTION	OF ACRES	O CALLETTINO GINNO	TO A HAMINA	COMMITTED	PARTICIPATION
			TRACT 1			
M 013297	T-27-N, R-4-W 31 Sec. 1: Lots 3,4,	319.91	Royalty;	12.50%	12.50%	3.444355%
***	SW/4	, t	Working interest: El Paso Natural Gas Co.; ORRI; TOTAL	83.75% 3.75% 100.00%	83.75% 3.75% 100.00%	
			TRACT 2			8,000,00
· = 079527	T-27-N, R-4-W Sec. 26: All	00.096	Royalty;	12.50%	12.50%	10.333973%
			El Paso Natural Gas Co.; ORRI;	83.75% 3.75% 100.00%	83.75% 3.75% 100.00%	
			TRACT 4			
899080 :	T-27-N, R-4-W 3. Sec. 4: Lots 3,4	319.20 3,4,	Royalty;	12.50%	12.50%	3.436711%
	SW/4 SW/4	NW/4,	working interest: El Paso Natural Gas Co.; ORRI; TOTAL	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	
<b>699080</b> a.s	T-27-N, R-4-W	2080.84 F/2 SW/4, F/2	Povelty:	12 50%	12 50%	22.403652%
	Sec. 18: Lots NE/4 Sec. 19: Lot 1 NE/4 Sec. 20: All	1,2, E/2 NW/4, , S/2 SE/4 1, E/2 NW/4, SW/4, E/2	Lots 1,2, E/2 NW/4, Working Interest:  NE/4, S/2 SE/4 E1 Paso Natural Gas Co.;  Lot 1, E/2 NW/4, ORRI;  NE/4 SW/4, E/2  All	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	

Page 1

10-1-76

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THE THE PREMISE OF SCHEDULE - SAN JUAN BASIN THIS. 17. (2.72)

## SCHEDULE XX

		NUMBER	DRILLING BLOCK	Υ.	PERCENTAGE	PRESENT ACTUAL
HIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
029080 :::	T-27-N B-4-W	72 701	TRACT 6			20.722764%
	29:	7/ . + 7	Royalty;	12.50%	12.50%	
	Sec. 31: All		working interest: El Paso Natural Gas Co.; ORRI:	82.50%	82.50%	
			TOTAL	100.008	100.008	
3 3 080671-A	T-27-N. R-4-W	320.00	TRACT 8			3.445324%
	Sec. 11: W/2		Royalty;	12.50%	12.50%	
			Working interest: El Paso Natural Gas Co.; ORRI:	82.50%	82.50%	
			TOTAL	100.00%	100.001	
3 080672	T-27-N R-4-W	640 00	TRACT 9			6.890649%
1	Sec. 14: W/2	•	Royalty;	12.50%	12.50%	
			WOINING INTEREST: El Paso Natural Gas Co.;	82.50%	82.50%	
			TOTAL TOTAL	3.00° 100.00%	300.008	
249080	W-2-7-W-7-7-T	1601 52	TRACT 10			17 242987%
	Sec. 6: Lots	1,2,3,4,5,	Royalty;	12.50%	12.50%	
	6,7, S/2 N	6,7, SE/4 NW/4, V S/2 NE/4, E/2 SW/4, E	Working Interest: , El Paso Natural Gas Co.;	82.50%	82.50%	
	Sec. 7: Lots	1,2,3,4, E/2	UKKI; TOTAL	\$00.001 100.008	5.00% 100.00%	
	Sec. 5: Lots	W/2 Lots 1,2, S/2 NE/4,				
	Sec. 8: E/2					
Esfective	10-1-76		Page 2			
ą						

		NUMBER	DRILLING BLOCK	¥	PERCENTAGE	PRESENT ACTUAL
	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
F 080674	T-27-N. R-4-W	320.00	TRACT 11			3.445324%
	Sec. 15: E/2		Royalty;	12.50%	12.50%	
_			working interest: El Paso Natural Gas Co.; ORRI; TOTAL	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	
SF 080675	T-27-N. R-4-W	320.00	TRACT 12			3.445325%
	Sec. 33: W/2		Royalty;	12.50%	12.50%	
			MOTRING INTEREST. E1 Paso Natural Gas Co.; ORRI; TOTAL	82.50% $5.00%$ $100.00%$	82.50% 5.00% 100.00%	
q	T-27-N B-4-W	27 12	TRACT 13			3.457491%
3	Sec. 19: Lots 2	2,3,4,	Royalty;	12.50%	12.50%	
	Sec. 18: N/2 SE/4 Sec. 17: W/2 SW/4	5/4 1/4 1/4	working interest: El Paso Natural Gas Co. ORRI; TOTAL	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	
<b>66</b>	T-27-N, R-4-W	160.63	TRACT 14			1.729445%
	Sec. 18: Lots 3,4,	5,4,	Royalty;	12.50%	12.50%	
		† -	CRRI;	85.00% 2.50% 100.00%	85.00% 2.50% 100.00%	
Effective	10-1-76					

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PRESENT ACTUAL	$\overline{}$	
PERCENTAGE	COMMITTED	
16 BLOCK	ERCENTAGE	
	OWNERSHIP	
NUMBER	OF ACRES	
ALIN INITAL		

# RECAPITULATION

Description of Lands in Participating Area:

	M/2	E/2	A11
, Range 4 West, N.M.P.M.	1,36:		6,17,18,19,20,26,29,30,31:
Range 4	4,23,33		3,20,26,
27 North,	1,4,7,11,	5,8,15:	6,17,18,19
Township 27 North,	Sections 1,4,7,11,14,23,33,	Sections	Sections

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

			SAN JUAN 2/-4 UNII AKEA	ıKEA		
RIAL NUMBER	DESCRIPTION	NUMBER	DRILLING BLOCK	1	PERCENIAGE	DADLICIDATION
		OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	Z
			TRACT 1			
7002 TO F	T-27-N D-4-W	10 012				3.222317%
167CTO 1	Sec. 1: Lots	Lots 3,4,	Royalty;	12.50%	12.50%	
-	S/2 1 SW/4	W/ 4 ,	working interest: El Paso Natural Gas Co.;	83.75%	83.75%	
			UKKI; TOTAL	$\frac{5.75\%}{100.00\%}$	5.75% 100.00%	
			TRACT 2			
3 079527	T-27-N, R-4-W Sec. 26: All	00.096	Royalty;	12.50%	12,50%	9.669670%
	Sec. 36: W/2		Working Interest: El Paso Natural Gas Co.:	83,75%	83.75%	
			ORRI; TOTAL	3.75%	3.75%	
			TRACT 4			
3 9 9 0 8 0 5	T-27-N, R-4-W	319.20	Day 14.	, r	000	3.215165%
		5,4, NW/4	Morking Interest:	14.30%	14.50%	
	SW/4	•	El Paso Natural Gas Co.; ORRI; TOTAL	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	
08080	T_27_N D_4_W	2080.84	TRACT 5			20.959413%
0000	17:	NW/4, E/2 SW/4, E/2 Royalty;	Royalty;	12.50%	12.50%	
		1,2, E/2 NW/4, , S/2 SE/4 1 E/2 NW//	WOIKING INCEPESC: El Paso Natural Gas Co.;	82.50%	82.50%	
	A B B B B B	4 SW/4 ,E/2	TOTAL	100.008	100.00%	
fective 11-	11-1-76		Page 1			

		NUMBER	DRILLING BLOCK	Y	PERCENTAGE	PRESENT ACTUAL
KIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
080670	T-27.N D-4.W	1024 72	TRACT 6			19,386880%
0/000	29:	77.4.76	Royalty;	12.50%	12.50%	
	Sec. 31: All		Working interest: El Paso Natural Gas Co.; ORRI;	82.50%	82.50%	
			IOIAL TRACT 8	*00.00T	%00.00T	
. 080671-A	T-27-N, R-4-W Sec. 11: W/2	320.00	Royalty;	12.50%	12.50%	3. 223223%
<b></b>		·	Working interest: El Paso Natural Gas Co.; ORRI; TOTAL	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	
080672	T-27-N R-4-W	640.00	TRACT 9			6.446447%
<b>1</b>	Sec. 14: W/2		Royalty;	12.50%	12.50%	
	3		El Paso Natural Gas Co.; ORRI:	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	
S. 080673	T-27-N, R-4-W	2241.52	TRACT 10			22.577874%
	Sec. 6: Lots	1,2,3,4,5, SF/4 NW/4	Royalty;	12.50%	12.50%	
	S/2 NE/4, E/2 SW/4, E. SF/4	E/4, E/2 SW/4	, El Paso Natural Gas Co.; ORRI:	82.50%	82.50%	
	Sec. 7: Lots W/2.F	Lots 1,2,3,4, E/2 W/2 F/2 (All)	TOTAL	100.008	100.001	
	Sec. 5: Lots SE/4	1,2, S/2 NE/4				
Sec.	Sec. 8: All		Page 2			

		NUMBER	DRILLING BLOCK	Y	PERCENTAGE	PRESENT ACTUAL
- LAIAL NOMBER	UESCRIT LON	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
F 080674	T-27-N B-4-W	220 00	TRACT 11			3.223223%
†	Sec. 15: E/2	00.076	Royalty;	12.50%	12.50%	
			WOLKING INCERESC: El Paso Natural Gas Co.;	82.50%	82.50%	
~			JONAL, TOTAL	300.001	100.00	
SE 080675	T-27-N D-4-W	320 00	TRACT 12			3.223224%
	Sec. 33: W/2	00.020	Royalty;	12.50%	12.50%	
· · · · · ·			working interest: El Paso Natural Gas Co.; Obbi:	82.50%	82.50%	
			ONEL, TOTAL	100.00%	100.00%	
8	T-27-N D-4-W	201 12	TRACT 13			3.234605%
3	Sec. 19: Lots 2	2,3,4,	Royalty;	12.50%	12.50%	
	Sec. 18: N/2 SE/4	2/ 4 4 4	WOLKING INCEREST: El Paso Natural Gas Co. ODDI.	82.50%	82.50%	
	Sec. 1/: W/2 SV	4/4	OKKI; TOTAL	300.008	100.008	
<b>Q</b> Q , i.	T-27-N R-4-W	160.63	TRACT 14			1.617957%
)	Sec. 18: Lots 3,4,	3,4, 8,4,	Royalty;	12.50%	12.50%	
	E/ 2 / 2	<b>1</b>	Working interest. El Paso Natural Gas Co.; ORRI;	85.00% 2.50%	85.00% 2.50%	
			TOTAL	100.00%	100.00%	

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DRILLING BLOCK PERCENTAGE PRESENT ACTUAL	PERCENTAGE COMMITTED PARTICIPATION	
	OF ACRES	
NOTEGIACARC GRAMIN LAIGHS		

# RECAPITULAIION

Description of Lands in Participating Area:

. Υ . Υ			,30,31:
4 West,	,36:		20,26,29
Kange	,23,33		18,19,
Township 27 North, Kange 4 West,	1,4,11,14,23,33,36	5,15:	Sections 6,7,8,17,18,19,20,26,29,30,31:
Township	Sections	Sections	Sections

Total Number of Acres in Participating Area:

W/2 E/2 All 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

Drilling Block T-27-N, R-4-W	<u>Acres</u>	Well No.
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
	960.00	•

<sup>\*</sup>Intervening drilling block caused by the completion of well #73.

Regional Oil and Gas Supervisor Commissoner of Public Lands Oil Conservation Commission November 22, 1976 Page Two

### 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

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

<sup>\*</sup>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

om 21-71 (2-72)

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

		NUMBER	DRILLING BLOCK	OCK	PERCENTAGE	PRESENT ACTUAL
ERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
			TRACT 1			
M 013297	T-27-N. R-4-W	319.91				3.444355%
	Sec. 1: Lots 3,4,	3,4,	Royalty;	12.50%	12.50%	
	SW/4 SW/4	, 4 ,	WOTKLING INCEREST: El Paso Natural Gas Co.; ORRI:	83.75%	83.75%	
			TOTAL	100.008	100.008	
			TRACT 2			
§ 3 079527	T-27-N, R-4-W Sec. 26: All	00.096	Rovaltv:	12.50%	12,50%	10.335973%
	Sec. 36: W/2		Working Interest:	82 7 K%	8.3.7.5.8 7.7.7.7.99	
			ORU; TOTAL	3.75% 100.00%	$\frac{3.75\%}{100.00\%}$	
			TRACT 4			
3 080668	T-27-N B-4-W	319 20				3.436711%
	Sec. 4: Lots 3,4,	3,4, 13,4,	Royalty;	12.50%	12.50%	
	SW/4	<b>'</b> † / <b>M</b>	El Paso Natural Gas Co.;	82.50%	82.50%	
			UKKI; TOTAL	\$00.00 100.000	5.00% 100.001	
699080 88	T-27-N R-4-W	2080,84	TRACT 5			22.403652%
	<t <="" td=""><td></td><td>Royalty;</td><td>12.50%</td><td>12.50%</td><td></td></t>		Royalty;	12.50%	12.50%	
•	NE/4	1,2, E/2 NW/4, , S/2 SE/4	, working interest: El Paso Natural Gas Co.;	82.50%	82.50%	
	Sec. 20: A11	LOC 1, E/2 NW/4, NE/4 SW/4, E/2 All	ONA; TOTAL	5.00% 100.00%	3.008 100.008	
fective	10-1-76		Page 1			

LINI J AREA EAFAINSION SCHEUULE - SAN JUAN BASIN Tarin 21-71 (2-72)

## SCHEDULE XX

		NUMBER	DRILLING BLOCK	Υ.	PERCENTAGE	PRESENT ACTUAL
SKIAL NOMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
080 ES	T-27-N R-4-W	1924 72	TRACT 6			20.722764%
	4	77.17	Royalty;	12.50%	12.50%	
	Sec. 31: All		working interest: El Paso Natural Gas Co.; ORRI:	82,50%	82.50%	
-			TOTAL	100.008	100.008	
£ F 080671-A	T-27-N, R-4-W	320.00	TRACT 8			3.445324%
	Sec. 11: W/2		Royalty;	12.50%	12.50%	
			Working interest. El Paso Natural Gas Co.; ORRI:	82.50%	82.50%	
			TOTAL	100.00%	100.008	
CE 080672	T-27-N D-4-W	640.00	TRACT 9			890649%
7,000	Sec. 14: W/2	0.00	Royalty;	12.50%	12.50%	
	Jec. 23. 11/2		Wolking interest. El Paso Natural Gas Co.;	82.50%	82.50%	
			OKKI: TOTAL	5.00%	5.00% 100.00%	
<b>249080</b> E3	W D O W 7C T	1601 62	TRACT 10			17 242987%
<b>6 700 1 100</b>	Sec. 6: Lots	1,2,3,4,5,	Royalty;	12.50%	12.50%	
	S/2 N	5,7, SE/4 NW/4, W S/2 NE/4, E/2 SW/4, E	Working Interest: , El Paso Natural Gas Co.;	82.50%	82.50%	
	Sec. 7: Lots	5E/4 Lots 1,2,3,4, E/2	UKKI; TOTAL	\$00.001 100.000	3.00° 100.000	
	Sec. 5: Lots	1,2, S/2 NE/4,				
	Sec. 8: E/2					
Effective	10-1-76		Page 2			
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			DRILLING BLOCK		PERCENTAGE	PRESENT ACTUAL
ERIAL NUMBER	DESCRIPTION	OF ACRES		PERCENTAGE	COMMITTED	PARTICIPATION
F 080674	T-27-W D-A-W	220 00	TRACT 11			3.445324%
t/0000 T	Sec. 15: E/2	00.075	Royalty;	12.50%	12.50%	
			WOIKING INTEREST: El Paso Natural Gas Co.;	82.50%	82.50%	
			TOTAL	100.008	100.00%	
SF 080675	T-27-N R-4-W	220.00	TRACT 12			3.445325%
	Sec. 33: W/2	00.00	Royalty;	12.50%	12.50%	
	•		WOTKING INCETEST: El Paso Natural Gas Co.;	82.50%	82.50%	
			ORKL; TOTAL	5.00% 100.00%	5.00% 100.00%	
<u>a</u>	T-27-N R-4-W	771.13	TRACT 13			3.457491%
	Sec. 19: Lots 2	2,3,4,	Royalty;	12.50%	12.50%	
	Sec. 18: N/2 SE/4 Sec. 17: W/2 SW/4	5/4 4/4	MOINTING INTELEST: El Paso Natural Gas Co. ORRI:	82.50% 5.00%	82.50% 5.00%	
×			TOTAL	100.00%	100.00%	
<b>9</b>	T-27-N R-4-W	160 63	TRACT 14			1.729445%
)	Sec. 18: Lots 3,4,	3,4, 1/4,	Royalty;	12.50%	12.50%	
	7 7 7	† 	El Paso Natural Gas Co.;	85.00%	85.00%	
÷			TOTAL	100.00%	100.001	
Effective	10-1-76					

Page 3

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The state of the s	OCK PERCENTAGE PRESEN	OWNERSHIP PERCENTAGE COMMITTED PARTICIPATION	
	NUMBER	OF ACRES	
- A	NOTHOLOGIC		
	SERIA! NIMBER		

# RECAPITULATION

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: All

Total Number of Acres in Participating Area: 9,287.95

orm\* 21-71 (2-72)

SCHEDULE XXI

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

			SAN JUAN 2/-4 UNII AKEA	KEA	A	
SERIAL NUMBER	DESCRIPTION	NUMBER	DRILLING BLOCK		PERCENTAGE	PRESENT ACTUAL
		OF ACKES	OWNERSHIP	PERCENT AGE	COMMI	אסב אדיטב אאד
			TRACT 1			
V 013297	T-27-N R-4-W	319,91				3.222317%
	<b>:</b>	s 3,	Royalty;	12.50%	12.50%	
-	7/NS 2M/1	S/2 NW/4, SW/4	working interest: El Paso Natural Gas Co.; ORRI;	83.75% 3.75%	83.75% 3.75%	
			TOTAL	100.00%	100.00%	
مد			TRACT 2			
3 079527	-N, R- 26:	00.096	Royalty;	12.50%	12.50%	80/9699.6
	Sec. 36: W/2		Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	83.75% $3.75%$ $100.00%$	83.75% 3.75% 100.00%	
			TRACT 4			
899080 :	T-27-N, R-4-W Sec. 4: Lots	. v.	Royalty;	12.50%	12.50%	3.215165%
	S/2 SW/	S/2 NW/4, SW/4	Working Interest: El Paso Natural Gas Co.; ORRI;	82.50%	82.50%	
			TRACT 5		• • • • • • • • • • • • • • • • • • •	20.959413%
600080 M	1-2/-N, K-4-W Sec. 17: NW/4,		Royalty;	12.50%	12.50%	
	19:	7 702	Working interest: El Paso Natural Gas Co.; ORRI;	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	
fective 11.			Page 1			

		NUMBER	DRILLING BLOCK	Y	PERCENTAGE	PRESENT ACTUAL
KIAL NOMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
0.3 080670	T-27-N, R-4-W	1924.72	TRACT 6	, ,	, ,	19.386882%
	Sec. 29: All Sec. 30: All Sec. 31: All		Koyalty; Working Interest: El Paso Natural Gas Co.; ORRI;	82.50% 82.50% 5.00%	12.50% 82.50% 5.00%	
; 3 080671-A	T-27-N, R-4-W	320.00	TOTAL  TRACT 8	100.00%	100.00%	3.223223%
	•		Noyalty, Working Interest: El Paso Natural Gas Co.; ORRI;	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	
.: 080672	T-27-N, R-4-W Sec. 14: W/2	640.00	Royalty;	12.50%	12.50%	6.446447%
	Sec. 23: W/2		Working interest: El Paso Natural Gas Co.; ORRI: TOTAL	82.50% $5.00%$ $100.00%$	82.50% 5.00% 100.00%	
. 229080	T-27-N, R-4-W Sec. 6: Lots 6,7,	(-4-W 2241.52 Lots 1,2,3,4,5, 16,7, SE/4 NW/4, 19	Royalty; Working Interest:	12.50%	12.50%	22.577874%
	S/2 NE/4, 1 SE/4 Sec. 7: Lots 1,2,3 W/2,E/2 (A Sec. 5: Lots 1,2,8	E/4, E/2 ŚW/4, 1,2,3,4, E/2 /2 (A11) 1,2, S/2 NE/4,	, El Paso Natural Gas Co.; ORRI; TOTAL	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	
Sec. fective 11-1-76	œ̈́		Page 2			

		NUMBER	DRILLING BLOCK	X	PERCENTAGE	PRESENT ACTUAL
EKIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
F 080674	T-27-W R-4-W	320.00	TRACT 11			3,223223%
	Sec. 15: E/2	00.020	Royalty;	12.50%	12.50%	
			working interest: El Paso Natural Gas Co.;	82.50%	82.50%	
*			UKKI; TOTAL	3.00° 100.00%	100.00%	
1 080675	T-27_N D-4_W	220 00	TRACT 12			3, 223224%
C 2000	Sec. 33: W/2	00.076	Royalty;	12.50%	12.50%	
			Working interest: El Paso Natural Gas Co.;	82.50%	82.50%	
			OKKI; TOTAL	100.00%	3.00 <u>.</u> 100.008	
9	T-27-N D-4-W	21 162	TRACT 13			3. 234605%
8	Sec. 19: Lots 2	Lots 2,3,4,	Royalty;	12.50%	12.50%	
	Sec. 18: N/2 SE	E/4	WOINTING INCEIEST. El Paso Natural Gas Co.	82.50%	82.50%	
		W/4	ORKI; TOTAL	300.00 <u>1</u>	5.00% 100.00%	
بنبر مناب	T-27-N B-1-W	160.63	TRACT 14			1.617957%
<b>)</b>	Sec. 18: Lots 3,4,	3,4,	Royalty;	12.50%	12.50%	
	IC 7/1	W/ 4	WOLKING INCEIEST: El Paso Natural Gas Co.; ORRI:	85.00%	85.00%	
			TOTAL	100.00%	100.001	

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0 H 0 H 0 H 0 H 0 H 0 H 0 H 0 H 0 H 0 H	NOIFGIGO	NUMBER	DRILLIN	1G BLOCK	PERCENTAGE	PRESENT ACTUAL
		OF ACRES		PERCENTAGE	COMMITTED	PARTICIPATION
				The state of the s	Management of the Control of the Con	

# RECAPITULATION

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 All 9,927.95

Total Number of Acres in Participating Area:

554





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 Picutred 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.

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

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

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

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,

James R. Permenter

Manager, Land Contracts & Titles

Land Department

Energy Resource Development

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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

### E Paso NATURAL GAS COMPANY



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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
Oil Conservation Commission

4-22-76

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

ODMSERVATION COMM.

April 22, 1976

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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,  $S_{\frac{1}{2}}^{\frac{1}{2}}$  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 8,672 feet.

Copies of the approved application are being distributed to the appropriate Federal effices and two copies are return 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)—(MCC) This Copy for Durango (w/cy appln.)

ARStall:dap

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### Paso NATURAL GAS COMPANY

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

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 Commissioner of Public Lands Oil Conservation Commission March 15, 1976 N/A 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



### 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. J. S. S.D.) 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\(\frac{1}{4}\)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,

CARL C. TRAYWICK CARL C. TRAYWICK Acting Area Oil and Gas Supervisor

Farmington (w/cy notice)
BLM, Santa Fe (ltr. only)
Com of Pub. Lands Santa Fe, (ltr. only)
NMOCC, Santa Fe (ltr. only)
Accounts

This Copy for

RDLindau:dap

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

554



February 12, 1976

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



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

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

Description of Lands	Acres
Township 27 North, Range 4 West, N.M.P.M.	
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:

Regional Oil and Gas Supervisor Oil Conservation Commission Page Two

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

Jana & Perment

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	0i1	&	Gas	Supervisor		

DATE: February 12, 1976

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

APPROVED:

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	DRILLING BLOCK	CK	PERCENTAGE	PRESENT ACTUAL
	00000	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
			Tract 4			
SF 080668	T-27-N, R-4-W Sec. 3: Lots	1,597.84 8,4, S/2 NW/4,		12.50000%	12.50000%	13.308380%
	Sec. 4: Lots 1 N/2, Sec. 9: All	*: Lots 1,2,3,4, S/2 N/2, S/2 (All)	Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	66.78375% 20.71625% 100.00000%	66.78375% 20.71625% 100.00000%	
			Tract 5			
SF 080669	T-27-N, R-4-W Sec. 17: N/2, F	2,080.84 E/2	Royalty;	12.50000%	12.50000%	17.331278%
	Sec. 18: Lots 1, 2, E/2 NW/4, NF/4, S/2 S	5E/4  , 2,  /4,  S/2 SF/4	ORRI;  TOTAL	66.78375% 20.71625% 100.00000%	66.78375% 20.71625% 100.00000%	
	Sec. 19: Lot 1: NE/4: Sec. 20: All	Lot 1, E/2 NW/4, NE/4 SW/4, E/2 All				
			Tract 6			
SF 080670	T-27-N, R-4-W Sec. 29: All	2,564.72	Royalty;	12.50000%	12.50000%	21.361505%
	Sec. 30: Lots Sec. 31: Lots	E/2 W/2, E/2 (All) Lots 1,2,3,4, Lots 1,2,3,4,	ORRI;  TOTAL	66.78375% 20.71625%	66.78375% 20.71625%	
	Sec. 32: All	2, E/2 (MII)		00000		

## SCHEDULE XIV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE	PRESENT ACTUAL
			Tract 10			
SF 080673	T-27-N, R-4-W Sec. 5: Lots	2,561.11 1,2,3,4,		12.50000%	12.50000%	21.331438%
	Sec. 6: Lots S/2 NI E/2 SI Sec. 7: Lots	5/2 N/2, 5/2 (A11) Lots 1,2,3,4,5,6,7, S/2 NE/4, SE/4 NW/4, E/2 SW/4, SE/4 (A11) Lots 1,2,3,4, F/2	ORRI;  TOTAL	66.78375% 20.71625% 100.00000%	66.78375% 20.71625% 100.00000%	
	<b>∞</b>	:/2 (Á11)				
			Tract 11			
SF 080674	T-27-N, R-4-W Sec. 16: All	1,280.00	Royalty;	12.50000%	12.50000%	10.661096%
	Sec. 21: All		ORRI;	66.78375% 20.71625%	66.78375% 20.71625%	
			Tract 12			
SF 080675	T-27-N, R-4-W 1, Sec. 28: W/2	1,440.00	Royalty;	12.50000%	12.50000%	11.993733%
,	Sec. 34: N/2, Se	SW/4	Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	66.78375% 20.71625% 100.00000%	66.78375% 20.71625% 100.00000%	

### SCHEDULE XIV

SECOLATION OF O		NUMBER	DRILLING BLOCK	X	PERCENTAGE	PRESENT ACTUAL
10000	DE 30 110 14	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPATION
			Tract 13			
Fee	T-27-N, R-4-W Sec. 17: W/2 S	321.13 W/4	Royalty;	12.50000%	12.50000%	2.674686%
	Sec. 18: N/2 SE/4 Sec. 19: Lot 2,3,4, SE/4 SW/4	,3,4, SW/4	Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	82.50000% 5.00000% 100.00000%	82.50000% 5.00000% 100.00000%	
			Tract 14			
Fee	T-27-N, R-4-W 1 Sec. 18: Lots 3,4,	160.63	Royalty;	12.50000%	12.50000%	1.337884%
	E/2 S	W/4	Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	85.00000% 2.50000% 100.00000%	85.00000% 2.50000% 100.00000%	·

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

# RECAPITULATION

Description of Lands in Participating Area:

ection 3	ection 3	ection 3	ection	ection 3	ection	Section 28	ection 2	ection 20	Section 19	ection 1	ection 1	ection 1	Section 9	ection	ection	ection	ection	Section 4	Section 3	Township 2
••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	•••	7
/2,	A11	A11	A11	A11	A11	W/2	A11	A11	A11	A11	A11	A11	A11	A11	A11	A11	A11	AII	W/2	North,
SW/4																				Range
																				4
																				West,
																				N.M.P.M.

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

100.00% 100.00% 100.00% Total Number of Acres in Participating Area: Total Number of Acres Participating:

12,006.27 12,006.27