

### United States Department of the Interior

### GEOLOGICAL SURVEY

P. O. Box 26124
Albuquerque, New Mexico 87125

JUN 3 0 1978

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

Gentlemen:

no. 159

The twenty-first revision of the Pictured Cliffs participating area for the Lindrith unit agreement, Rio Arriba County, New Mexico, was approved on this date by the Oil and Gas Supervisor, U. S. Geological Survey, effective January 1, 1977.

The twenty-first revision adds 320.00 acres described as the STA sec. 21, and the STA sec. 28, T. 24 N., R. 2 W., N.M.P.M. The addition of the STA sec. 21 is based on information obtained through the completion of unit well No. 89 as a paying well pursuant to the terms of the unit agreement. Such well was tested December 1, 1976, using the Pitot tube method with an after frac guage of 203 MCF of gas per day from the Pictured Cliffs formation interval 3,071 to 3,156 feet. The SEA sec. 28, is based on information obtained through the completion of unit well No. 90 as a paying well pursuant to the terms of the unit agreement. Such well was tested on December 29, 1976, using the Pitot tube method with an after frac guage of 669 MCF of gas per day from the Pictured Cliffs formation interval 3,108 to 3,170 feet.

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

Sincerely yours,

(ORIG. SGD.) GENE F. DANIEL

ACTING U11 and Gas Supervisor, SRMA

### Enclosures (3)

cc:

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



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

no. 157

Re: Lindrith Unit

Rio Arriba County, New Mexico

1978 DRILLING PROGRAM

### Gentlemen:

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

United States Geological Survey January 26, 1978 Commissioner of Public Lands January 19, 1978 January 19, 1978 Oil Conservation Commission

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

Derold Maney

Landman

Land Department

Energy Resource Development

DM/sf

Lindrith Unit 3.0

### LINDRITH UNIT WORKING INTEREST OWNERS

Continental Oil Company

Mobil Oil Corporation (3)

Tenneco Oil Company



### United States Department of the Interior

GEOLOGICAL SURVEY

PE 0. Box 26124 Albuquerque, New Mexico 87125

January 26, 1973

-20. 159

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

### Gentlemen:

On this date, your 1978 plan of development for the Lindrith unit area, Rio Arriba County, New Mexico, wherein you propose to drill four Pictured Cliffs wells, was approved. Such approval is subject to like approval by the appropriate State officials.

Three approved copies are enclosed.

Sincerely yours,

Orig. Signed - JAMES W. SUMMIRLAND

JAMES W. SUTHERLAND Area Oil and Gas Supervisor

**Enclosures** 

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

### State of New Mexico







### Commissioner of Public Lands

January 19, 1978

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

El Paso Matural Gas Company

P. O. Box 1492

El Paso, Temas 79978

no. 159

Re: Limitith Unit

Rio Arriba County, New Mexico

1978 DEILLING PROGRAM

ATTEMTION:

Mr. D. N. Camfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1978 Drilling Program for the Lindrith Unit, Rio Arriba County, New Mexico. Your plan calls for the drilling of 4 Pictured Cliff wells during 1978.

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

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

Enclosed is one approved copy for your files.

Very truly yours,

PHIL R. LUCERO

COMMISSIONER OF PUBLIC LANDS

BY

RAY D. GRAHAM, Director Oil and Gas Division

PRL/RDG/s

261

OCC-Senta Fe, New Mexico USGS-Reewell, New Mexico USGS-Albuquerque, New Mexico

RECLIVED

JAN 20 1978

Oil Conservation Commission

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

January 18, 1978

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

Attention: D. N. Canfield

Re: Case No. 159 Lindrith Unit

1978 Drilling Program

### Gentlemen:

We hereby approve the 1978 Drilling Program for the Lindrith 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

### EI Paso NATURAL GAS COMPANY

. N 13 1978 P.O. BOX 1492 EL PASO, FEXAS 79978

-- PHONE: 9/15-543-2600

Mo. 159 appeare

January 9, 1978

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

Commissioner of Public Land 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: Lindrith Unit I Section No. 713 Rio Arriba County, New Mexico

1978 DRILLING PROGRAM

### Gentlemen:

By letter dated February 25, 1977, El Paso Natural Gas Company, as Unit Operator of the Lindrith Unit, filed a Drilling Program covering the subject Unit for the calendar year 1977 providing for the drilling of four (4) Pictured Cliffs wells. All four wells were timely drilled. Wells Nos. 87 & 88 were drilled within the boundaries of the Pictured Cliffs Participating Area and did not cause expansions. Wells Nos. 91 & 92 have been evaluated and determined commercial. Applications are being prepared for submittal to the Regulatory agencies proposing the expansions.

As of this date, the total number of wells in the Lindrith Unit is as follows:

Pictured Cliffs (Gas)	76
Pictured Cliffs (Non-commercial)	5
Dakota	1
Gallup	1
Plugged and Abandoned	12
	95

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

Pursuant to Section 9 of the Lindrith Unit Agreement, El Paso Natural Gas Company, as Unit Operator, is submitting this Drilling Program providing for the drilling of the following wells during the calendar year 1978.

Well No.	Drilling Block	<u>Formation</u>
84	SE/4 Section 36, T-24-N, R-3-W	Pictured Cliffs
93	SE/4 Section 29, T-24-N, R-2-W	Pictured Cliffs
94	NE/4 Section 18, T-24-N, R-2-W	Pictured Cliffs
95	NE/4 Section 10, T-24-N, R-3-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 9 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 below.

Very truly yours

D. N. Canfield Director of Land

Energy Resource Development

DNC/DM/sf Attachments Lindrith Unit, 3.0

Cc: Mobil Oil Corporation Attention: Mr. J. D. Howard P. O. Box 633 Midland, Texas 79701

> Continental Oil Company Attention: Mr. L. P. Thompson P. O. Box 460 Hobbs, New Mexico 88240

Tenneco Oil Company Attention: Mr. A. D. Rial Suite 1200, Lincoln Tower Bldg. 1860 Lincoln Street Denver, Colorado 80203

APPROVED	•	DATE:
	Regional Oil & Gas Supervisor United States Geological Survey	
	Subject to like approval by the Commissioner of Public Lands and	
	the Oil Conservation Commission	
APPROVED		DATE:
	Commissioner of Public Lands Subject to like approval by the United States Geological Survey and the Oil Conservation Commission	
APPROVED	Jes Hanes	DATE: 1/19/78
	Oil Conservation Commission	
	Subject to like approval by the	
	United States Geological Survey	
	and the Commissioner of Public Lands	

The foregoing approvals are for the 1978 Drilling Program for the Lindrith Unit, I Sec. No. 713, Rio Arriba County, New Mexico.

### LINDRITH, UNIT WORKING INTEREST OWNERS

Continental Oil Company

Mobil Oil Corporation (3)

Tenneco Oil Company

EIP350 NATURAL GAS COMPANY

23 1977

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

November 18, 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: Lindrith Unit Area, I Sec. No. 713
Rio Arriba County, New Mexico
Pictured Cliffs Formation -- NOTICE
OF COMPLETION OF ADDITIONAL WELLS

### Gentlemen:

Pursuant to Section 10 of the Lindrith Unit Agreement, I Sec. No. 713, approved April 3, 1950, El Paso Natural Gas Company, as Unit Operator, determined on the dates set out below that two (2) additional Pictured Cliffs wells have been completed upon acreage committed to this Unit. These wells are as follows:

The Lindrith Unit #87 Well, located 1000' from the North line and 1730' from the West line of Section 28, Township 24 North, Range 2 West, N.M.P.M., was spudded on June 25, 1977, and completed on July 27, 1977, at a total depth of 3161'. The Pictured Cliffs Formation at the intervals of 3036', 3046', 3054', 3060', 3082', 3090', 3098', and 3106', was treated with a sand-water fracturing process on July 8, 1977. The well was shut-in on July 20, 1977, and after being shut-in for seven (7) days, the Pictured Cliffs Formation was tested on July 27, 1977, using the Pitot tube method with an after frac guage of 1065 MCF/D, with an SIPC of 478 psia. The spacing unit for this well is described as the NW/4 of Section 28, Township 24 North, Range 2 West, N.M.P.M., containing 160.00 acres.

Page Two

The Lindrith Unit #88 Well, located 810' from the North line and 850' from the West line of Section 29, Township 24 North, Range 2 West, N.M.P.M., was spudded on June 8, 1977 and completed on July 27, 1977, at a total depth of 3088'. The Pictured Cliffs Formaton at the intervals of 2952', 3007', 3012', 3017', 3022', 3025', and 3036', was treated with a sand-water fracturing process on June 27, 1977. The well was shut-in on July 20, 1977, and after being shut-in for seven (7) days, the Pictured Cliffs Formation was tested on July 27, 1977, using the Pitot tube method with an after frac guage of 393 MCF/D, with an SIPC of 928 psia. The spacing unit for this well is described as the NW/4 of Section 29, Township 24 North, Range 2 West, N.M.P.M., containing 160.00 acres.

The spacing unit for both of these wells was included in the Lindrith Unit, Second Expanded Pictured Cliffs Participating Area effective August 1, 1956, and the completion of these wells does not warrant any further expansion of the Pictured Cliffs Participating Area.

A Copy of this leter is 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:is

Attachment

Lindrith Unit, 4.1.1

### LINDRITH UNIT WORKING INTEREST OWNERS

Continental Oil Company
Mobil Oil Corporation (3)
Tenneco Oil Company

### State of New Mexico







### Commissioner of Public Lands

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

Movember 18, 1977

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas 79978

Ar. 259

Re: Lindrith Unit

Rio Arriba County, New Mexico REQUEST FOR APPROVAL OF THE

TWENTY-FIRST EXPANDED PARTICIPATING

AREA, Pictured Cliffs Formation Effective January 1, 1977

DIEGGET GENTLE T

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved the Twenty-First Expanded Participating Area, Pictured Cliffs Formation, for the Lindrith Unit, Rio Arriba County, New Mexico. Such expansion increased the Pictured Cliffs Participating area by 320 acres. Our approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Enclosed is one approved copy for your files.

Very truly yours,

PHIL R. LUCERO COMMISSIONER OF PUBLIC LANDS

BY:

RAY D. GRAHAM, Director Oil and Gas Division

PRL/RDG/s encls.

cc:

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

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

November 15, 1977

El Paso Natural Gas Company

P. O. Box 1492

El Paso, Texas 79978

Attention: Jemes R. Permenter

Re: Case No. 159 Lindrith Unit

Twenty-First Expanded

Participating Area for the Pictured Cliffs Formation

### Gentlemen:

We hereby approve the Twenty-First Expanded Participating Area for the Pictured Cliffs Formation for the Lindrith Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Counissioner of Public Lands.

One approved copy of the Expanded Participating Area is returned herewith.

Very truly yours,

JOE D. RAMEY Secretary-Director

JDR/LT/fd

cc: U.S.G.S. - Reswell

Commissioner of Public Lands

### NATURAL GAS COMPANY

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

November 10, 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 1 1977

No. 159

Re: Lindrith Unit Agreement,

1 Section No. 713

Rio Arriba County, New Mexico REQUEST FOR APPROVAL OF THE

TWENTY-FIRST EXPANDED PARTICIPATING

AREA, Pictured Cliffs Formation

Effective January 1, 1977

### Gentlemen:

Pursuant to Section 10 of the Lindrith Unit Agreement, El Paso Natural Gas Company, as Unit Operator, submits for your approval the Twenty-First Expanded Participating Area for the Pictured Cliffs Formation, Lindrith Unit, Rio Arriba County, New Mexico, which includes in addition to the lands previously submitted, the following selection of lands reasonably estimated to be productive in paying quantities from the Pictured Cliffs Formation:

### Twenty-First Expanded Participating Area - Effective January 1, 1977

Description	of Land	<u>ds</u>				<u> </u>	cres
Township 24	North,	Range	2	West,	N.M.P.M.		
Section 21:	SE/4					16	0.00
Section 28:	SE/4						0.00
					TOTAL:	32	0.00

The lands described above are proven productive by the following:

The Lindrith Unit #89 Well, located 890' from the South line and 1750' from the East line of Section 21, Township 24 North, Range 2 West, N.M.P.M., was spudded on October 4, 1976, and completed on December 1, 1976, at a total depth of 3222'. The Pictured Cliffs Formation at the intervals of 3071', 3077', 3093', 3106', 3118', 3134', 3141', and 3156' was treated with a sand-water fracturing process on October 29, 1976. The well was shut-in on November 24, 1976, and after being shut-in for seven (7) days, the Pictured Cliffs Formation was tested on December 1, 1976, using the Pitot tube method with an after frac guage of 203 MCF/D, with an SIPC of 800 psia. The spacing unit for this well is described as the SE/4 of Section 21, Township 24 North, Range 2 West, N.M.P.M., containing 160.00 acres; and

The Lindrith Unit #90 Well, located 1850' from the South line and 1480' from the East line of Section 28, Township 24 North, Range 2 West, N.M.P.M., was spudded on October 5, 1976, and completed on December 29, 1976, at a total depth of 3208'. The Pictured Cliffs Formation at the intervals of 3108', 3115', 3130', 3134', 3147', 3159', 3163', and 3170' was treated with a sand-water fracturing process on December 6, 1976. The well was shut-in on December 22, 1976, and after being shut-in for seven (7) days, the Pictured Cliffs Formation was tested on December 29, 1976, using the Pitot tube method with an after frac guage of 669 MCF/D, with an SIPC of 880 psia. The spacing unit for this well is described as the SE/4 of Section 28, Township 24 North, Range 2 West, N.M.P.M., containing 160.00 acres.

The effective date for the Twenty-First Expanded Participating Area is determined as January 1, 1977, the first day of the month following the testing of the Lindrith Unit #89 and #90 Wells.

Attached hereto is Schedule XXII showing the Twenty-First Expanded Participating Area for the Pictured Cliffs Formation in the Lindrith Unit Area. This schedule describes the Expanded Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the exact breakdown of percentage allocated to each tract according to the various ownership in said tract.

If the Twenty-First Expansion meets with your approval, please indicate such approval in the space provided on the attached sheet, and return an approved copy for our files.

A copy of this letter and schedule are being sent to the working interest owners indicated below.

Very truly yours,

James R. Permenter

Manager, Land Contracts

and Titles

Land Department

Energy Resource Development

JRP:DM:is Enclosures Lindrith Unit 4.1

c: Continental Oil Company
Post Office Box 460
Hobbs, New Mexico 88240
Attention: Mr. L. P. Thompson

Mobil Oil Company (3)
Post Office Box 633
Midland, Texas 79701
Attention: Mr. J. D. Howard

Tenneco Oil Company Suite 1200, Lincoln Tower Building 1860 Lincoln Street Denver, Colorado Attention: Mr. D. D. Meyers

APPROVED:		DAIE:	
	Regional Oil & Gas Supervisor United States Geological Survey Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Commission		
<b>APPROVED</b> :	Commissioner of Public Lands Subject to like approval by the United States Geological Survey and the Oil Conservation Commission	DATE:	
APPROVED	Oil Conservation Commission Subject to like approval by the United States Geological Survey and the Commissioner of Public Lands	DATE: <u>                                      </u>	· ·

## UNIT TAREA EXPANSION SCHEDULE - SAN HOAN FASIN

TWENTY-FIRST EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION LINDRITH UNIT AREA SCHEDULE XXII

			SOO TO DAY I FINDS	3	n O * Historia	. * * * * * * * * * * * * * * * * * * *
SERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPAT
			TRACT, 2			
3F 078908	T-24-N, R-2-W	227.88	Royalty;	12.50%	12.50%	1.921961%
	Sec. 18: Lots 1,2, E/2 NW/4, SE/4 SW/4	4°,4°,	working interest: El Paso Natural Gas Co.; ORRI; TOTAL	75.00% 12.50% 100.00%	75.00% 12.50% 100.00%	
	·		TRACT 3			
SE 078909	T-24-N, R-2-W	1664.29	_	12.50%	12.50%	14.036776%
	E/2 E/2	SW/4, SE/4	El Paso Natural Gas Co.;	75.00%	75.00%	
	Sec. 21: 5/2 Sec. 21: 5/2 Sec. 30: 10ts 1	2 = 12	TOTAL	%00.00L	100.00%	
	NW/4,	NE/4				
	Sec. 24: E/2 SE/4	14				
			TRACT 4			·
SF 078910	T-24-N, R-2-W	2216.53	Royalty;	12.50%	12.50%	18.694419%
	20: NE/	E/4,	Working interest: El Paso Natural Gas Co.;	75.00%	75.00%	
	Sec. 29: NE/4 Sec. 30: Lots 3,	4,	ORRI; TOTAL	100.00%	100.00%	
	E/2 SW/ Sec. 31: Lots 1,	/4, SE/4 ,2,3,4,				
	E/2 W/ SE/4, R-3-W	2, E/2 W/2				
	SW/4	W/2 SE/4				

		NIMBER	DRILLING BLOCK	OK	PERCENTAGE	PRESENT AC
ERIAL NUMBER	A DESCRIPTION	OF ACRES	OWNERSHIP	PERCENT AGE	COMMITTED	
	-		TRACT 6			
₹ 078912	-N,	2080.00		12.50%	12.50%	17.542913%
	Sec. 10: 5/2 Sec. 11: E/2, E Sec. 12: SW/4,	S/2 E/2, E/2 SW/4 SW/4, NW/4 NW/4,	Working Interest: El Paso Natural Gas Co.; ORRI;	75.00%	75.00%	
·	Sec. 13: E/2 N NW/4,	NW/4 SE/4 NW/4, NW/4 S/2 SW/4,	JOINE	% 00.00	% 00 00 -	
	Sec. 14: E/2, Sec. 24: NW/4, SE/4	NE/4 E/2, S/2 SW/4 NW/4, W/2 NE/4, SE/4 NE/4				
			TRACT 7			
€ 078913	-N, R-	2080.00	Royalty;	12.50%	12.50%	17.542913%
	Sec. 15: All Sec. 21: W/2, Sec. 22: N/2	NE/4	Working interest: El Paso Natural Gas Co.; ORRI; TOTAL	75.00% 12.50% 100.00%	75.00% 12.50% 100.00%	
			TRACT 8			(
₹ 078914	T-24-N, R-3-W	640.00	Royalty;	12.50%	12.50%	5.397819%
			El Paso Natural Gas Co.; ORRI; TOTAL	75.00% 12.50% 100.00%	75.00% 12.50% 100.00%	`
		-				

		O LI ONE	DRITTING BLOCK	×	104 FNHCRHU	
SERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	u
			TRACT 9			
516870	R-3-W	640.00		12.50%	12.50%	5.397819%
	NE/4	<b>7/</b> :	WORKING INCEPEST: El Paso Natural Gas Co.;	75.00%	75.00%	
			TOTAL	100.00	100.00%	
			TRACT 13			
'atented'	T-24-N, R-2-W	*160.00	Royalty; Working Interest:	9.375%	6.250%	1.012091%
	*Undivided 120.00 net acres committed	ed.	2 0 t	56.250% 25.000%	56.250%	
		··	ORRI; TOTAL	9.375%	9.375% 71.875%	
			TRACT 13-B			
stented	T-24-N, R-2-W	*80.00	Royalty; Working Interest:	6.250%	6.250%	.337364%
	*Undivided 40.00	·		37.500%	37.500%	
	net acres committed	ed	Felmont Oil Co.;	12.500%	%000°	
			Jane F. Gulla;	%07D.	% % 0000.	٠.
			Wilb & Co:	25.000%	%%000. %000.	
			C. W. Gillette;	6.250%	%000.	
			Augustus P. Loring, III	4.000% .625%	* ** 0000.	
				6.250%	6.250%	

		o sowing	NO B SNI - HBC	¥	T CAT VACATION	DBESENT AC
SERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPA
			TRACT 16			
Patented	N.	75.96	Royalty;	12.50%	12.50%	.640653
	Sec. 18: Lot 3, NE/4 SW/4	/4	working interest: El Paso Natural Gas Co.;	75.00%	75.00%	
			UNKL: TOTAL	300.001	100.00	
			TRACT 17			
Patented	-N, R-	640.00		12.50%	12.50%	5.397819
	sec. y: All	·	Working interest: El Paso Natural Gas Co.;	75.00%	75.00%	
			UKKI; TOTAL	300.001	100.00%	
			TRACT 18			
Patented	T-24-N, R-2-W	311.98		12.50%	6.25%	2.631268
	SEC. 13. EUCS 1,2, E/2 NW/4, NE/4	4, NE/4	F1 Paso Natural Gas Co.; ORRI;	75.00% 12.50% 100.00%	75.00% 12.50% 93.75%	
			TRACT 19			
Patented	6	320.00	Royalty;	12.50%	12.50%	2.698910
	Sec. 13: SW/4 NW/4 N/2 S/2, S/2 SF/4	, 't',	Working Interest. El Paso Matural Gas Co.; ORRI:	75.00%	75.00%	
	Sec. 24: NE/4 NE	/4	TOTAL	100.00%	100.00%	

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

SCHEDULE XX11

		NUMBER	DRILLING BLOCK	×	PERCENTAGE	PRESENT AC
SERIAL NUMBER	DESCRIPTION	OF ACRES	OWNERSHIP	PERCENTAGE	COMMITTED	PARTICIPA-
	•		TRACT 22			
Patented	T-24-N, R-2-W	160.00	Royalty;	12.50%	12.50%	1.349455%
	35C. 3. NW/4		Working interest: El Paso Natural Gas Co.;	81.25%	81.25%	
			TOTAL TOTAL	100.001	%67.9 100.001	
			TRACT 24			
Patented		320.00		12.50%	%00.00	2.698910%
	Sec. 14: NW/ 4, N/2 SW/4		El Paso Natural Gas Co.;	75.00%	75.00%	
	Sec. 11: W/2 SW/4		UKKI; TOTAL	100.00%	87.00%	
			TRACT 25			
Patented	T-24-N, R-2-W	160.00	Royalty;	12.50%	3.125%	1.349455%
	t /wu - 11 - 120		El Paso Natural Gas Co.;	75.00%	75.000%	
			TOTAL	100.00%	90.625%	
			TRACT 27			
atented	T-24-N, R-3-W Sec. 12: NE/4 SF/4	160.00	Royalty; Working Interest:	12.50%	12.50%	1.349455%
	S/2 NW/ NE/4 NW	: <u></u>	El Paso Natural Gas Co.; ORRI;	75.00% 12.50% 100.00%	75.00% 12.50% 100.00%	
					٠	

<sup>\*</sup>Royalty interest not committed to Lindrith Unit

# SCHEDULE XX11 TWENTY-FIRST EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION LINDRITH UNIT AREA

### RECAPITULATION

Description of Lands in Participating Area;

انہ	(TTA)			E/2 (A11) E/2 (A11)	
A. P. Z	(M/2) E/2		1	E/2 E/2	
Z	W/2 W/2,		!	E/2 W/2, E E/2 W/2, E	
West	E/2 E/2		1	E/2 E/2	
ownship 24 North, Range 2 West, N.M.P.M. ection 9: NW/4	Lots 1,2,3,4, E/2 W/2 (W/2) Lots 1,2,3,4, E/2 W/2, E/2 (All)	, SE/4	, SE/4	Lots 1,2,3,4, Lots 1,2,3,4, SE/4, W/2	
Nort NW/	Lot	A11 W/2,	N/2 N/2	Lot Lot SE/	
24	]8: ]9:	20: 21:	28: 29:	30: 31: 32:	
Township Section	Section Section	Section	Section	Section Section Section	

Township 24 North, Range 3 West, N.M.P.M. section 9: All									•			
3 West,												
, Range	SW/4	, W/2					NE/4		SE/4			
North	S/2 E/2,	· SE/4	A11	A11	All	A11	W/2,	N/2	N/2,	A11	A11	NE/4
24	<u>::</u>	12:	]3:	14:	15:	16:	21:	22:	23:	24:	25:	36:
Township Section	Section Section	Section										