

[illegible]

SCHEDULE XX1

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT AC PARTICIPA
			OWNERSHIP	PERCENTAGE		
SF 078912	T-24-N, R-3-W	2080.00	Royalty;	12.50%	12.50%	18.029513
	Sec. 10: S/2		Working Interest:			
	Sec. 11: E/2, E/2 SW/4		El Paso Natural Gas Co.;	75.00%	75.00%	
	Sec. 12: SW/4, NW/4 NW/4,		ORRI;	12.50%	12.50%	
	S/2 SE/4, NW/4 SE/4		TOTAL	100.00%	100.00%	
	Sec. 13: E/2 NW/4, NW/4					
	NW/4, S/2 SW/4,					
	NE/4					
	Sec. 14: E/2, S/2 SW/4					
	Sec. 24: NW/4, W/2 NE/4,					
SE/4 NE/4						
TRACT 6						
SF 078913	T-24-N, R-3-W	2080.00	Royalty;	12.50%	12.50%	18.029513
	Sec. 15: A11		Working Interest:			
	Sec. 16: A11		El Paso Natural Gas Co.;	75.00%	75.00%	
	Sec. 21: W/2, NE/4		ORRI;	12.50%	12.50%	
	Sec. 22: N/2		TOTAL	100.00%	100.00%	
TRACT 7						
SF 078914	T-24-N, R-3-W	640.00	Royalty;	12.50%	12.50%	5.547542
	Sec. 25: A11		Working Interest:			
			El Paso Natural Gas Co.;	75.00%	75.00%	
			ORRI;	12.50%	12.50%	
			TOTAL	100.00%	100.00%	
TRACT 8						

Effective December 1, 1976

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT AC PARTICIPA
			OWNERSHIP	PERCENTAGE		

5.547542

1.040164

.346721

50.000%

SCHEDULE XXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT AC PARTICIPA
			OWNERSHIP	PERCENTAGE		
Patented	T-24-N, R-2-W Sec. 18: Lot 3, NE/4 SW/4	75.96	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 75.00% 12.50% 100.00%	12.50% 75.00% 12.50% 100.00%	.65842.
			TOTAL			
			TRACT 17			
Patented	T-24-N, R-3-W Sec. 9: A11	640.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 75.00% 12.50% 100.00%	12.50% 75.00% 12.50% 100.00%	5.54754
			TOTAL			
			TRACT 18			
Patented	T-24-N, R-2-W Sec. 19: Lots 1,2, E/2 NW/4, NE/4	311.98	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 75.00% 12.50% 100.00%	6.25% 75.00% 12.50% 93.75%	2.70425
			TOTAL			
			TRACT 19			
Patented	T-24-N, R-3-W Sec. 13: SW/4 NW/4, N/2 S/2, S/2 SE/4 Sec. 24: NE/4 NE/4	320.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 75.00% 12.50% 100.00%	12.50% 75.00% 12.50% 100.00%	2.77377
			TOTAL			

SCHEDULE XXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT A PARTICIPA
			OWNERSHIP	PERCENTAGE		
Patented	T-24-N, R-2-W	160.00	Royalty;	12.50%	12.50%	<u>1.386886</u>
	Sec. 9: NW/4		Working Interest:	81.25%		
			El Paso Natural Gas Co.;	<u>6.25%</u>		
			ORRI;	<u>100.00%</u>		
			TOTAL	<u>100.00%</u>		
			<u>TRACT 22</u>			
Patented	T-24-N, R-3-W	320.00	*Royalty;	12.50%	00.00%	2.773771
	Sec. 14: NW/4,		Working Interest:	75.00%		
	N/2 SW/4		El Paso Natural Gas Co.;	<u>12.50%</u>		
			ORRI;	<u>100.00%</u>		
			TOTAL	<u>100.00%</u>		
			<u>TRACT 25</u>			
Patented	T-24-N, R-2-W	160.00	Royalty;	12.50%	3.125%	<u>1.386886</u>
	Sec. 21: NW/4		Working Interest:	75.00%		
			El Paso Natural Gas Co.;	<u>12.50%</u>		
			ORRI;	<u>100.00%</u>		
			TOTAL	<u>100.00%</u>		
			<u>TRACT 27</u>			
Patented	T-24-N, R-3-W	160.00	Royalty;	12.50%	12.50%	<u>1.386886</u>
	Sec. 12: NE/4 SE/4,		Working Interest:	75.00%		
	S/2 NW/4,		El Paso Natural Gas Co.;	<u>12.50%</u>		
	NE/4 NW/4		ORRI;	<u>100.00%</u>		
			TOTAL	<u>100.00%</u>		

\*Royalty interest not committed to the unit

SCHEDULE XX1  
 TWENTIETH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
 LINDRITH UNIT AREA

RECAPITULATION

Description of Lands in Participating Area;


Township 24 North, Range 2 West, N.M.P.M.  
 Section 9: NW/4  
 Section 18: Lots 1,2,3,4, E/2 W/2 (W/2)  
 Section 19: Lots 1,2,3,4, E/2 W/2, E/2 (A11)  
 Section 20: A11  
 Section 21: W/2  
 Section 28: N/2  
 Section 29: N/2  
 Section 30: Lots 1,2,3,4, E/2 W/2, E/2 (A11)  
 Section 31: Lots 1,2,3,4, E/2 W/2, E/2 (A11)  
 Section 32: SE/4, W/2

Township 24 North, Range 3 West, N.M.P.M.  
 Section 9: A11  
 Section 10: S/2  
 Section 11: E/2, SW/4  
 Section 12: SE/4, W/2  
 Section 13: A11  
 Section 14: A11  
 Section 15: A11  
 Section 16: A11  
 Section 21: W/2, NE/4  
 Section 22: N/2  
 Section 23: N/2, SE/4  
 Section 24: A11  
 Section 25: A11  
 Section 36: NE/4

Total Number of Acres in Participating Area:	11,616.64
Total Number of Acres Participating:	11,536.64

EXHIBIT "B"  
GEOLOGICAL REPORT CONCERNING  
THE TWENTIETH EXPANSION  
OF THE PICTURED CLIFFS FORMATION IN THE  
EL PASO NATURAL GAS COMPANY  
LINDRITH UNIT

EL PASO NATURAL GAS COMPANY

By:   
R. F. Lemon, Director  
Reservoir Engineering Dept.

## EXHIBIT "B"

### GEOLOGICAL SUMMARY PERTAINING TO THE TWENTIETH EXPANSION OF THE PICTURED CLIFFS PARTICIPATING AREA WITHIN THE LINDRITH UNIT

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#### GENERAL INFORMATION

The Pictured Cliffs formation within the Lindrith Unit of Rio Arriba County, New Mexico is of upper Cretaceous age and is considered to be predominantly sandstone deposited in bands of varying widths. These bands have a northwest-southeast trend and are separated by zones of shaly sandstones and/or bentonitic sandstones. The Pictured Cliffs formation is erratic in development and abrupt "shale-out" of the sand can occur as well as rapid local thickening. This can cause great variance in well potentials as evidenced in the Lindrith Unit Area. Enclosed with this report is a structure map, Exhibit "C," Figure No. 1, and an isopach map as Exhibit "C," Figure No. 2.

#### TWENTIETH EXPANSION

Effective Date: December 1, 1976

Lindrith No. 80

SW/4 Section 11, T-24-N, R-3-W

This well was tested on November 15, 1976 for an initial wellhead shut-in pressure of 969 psia and an after frac flow gauge of 2211 Mcf/D. On the basis of this test, the acreage is proven commercial and should be admitted to the Participating Area. This is further substantiated by the Isopach map, Exhibit "C," Figure No. 2, which shows the above acreage to be located on the established trend of commercial production and to have an average net pay of greater than 10 feet.