

## UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

Form 2i-71 (2-72)

SCHEDULE XXVI  
 TWENTY-FIFTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
 LINDRITH UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078908	T-24-N, R-2-W	387.88				<u>2.952658%</u>
	Sec. 8: NE/4		Royalty;	12.500000%	12.500000%	
	Sec. 18: Lots 1, 2, 4, E/2 NW/4, SE/4 SW/4		Working Interest; El Paso Natural Gas Co.; ORRI;	74.218750% 13.281250%	74.218750% 13.281250%	
	TOTAL			100.000000%	100.000000%	
	<u>TRACT 2</u>					
SF 078909	T-24-N, R-2-W	1664.29				<u>12.669069%</u>
	Sec. 19: Lots 3, 4, E/2 SW/4, SE/4		Royalty;	12.500000%	12.500000%	
	Sec. 20: All		Working Interest; El Paso Natural Gas Co.; ORRI;	74.218750% 13.281250%	74.218750% 13.281250%	
	TOTAL			100.000000%	100.000000%	
	<u>TRACT 3</u>					
SF 078910	T-24-N, R-2-W	2296.53				<u>17.481868%</u>
	Sec. 28: NE/4, SE/4, N/2 NW/4		Royalty;	12.500000%	12.500000%	
	Sec. 29: NE/4, W/2 SE/4		Working Interest; El Paso Natural Gas Co.; ORRI;	74.218750% 13.281250%	74.218750% 13.281250%	
	TOTAL			100.000000%	100.000000%	
	<u>TRACT 4</u>					

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078911	T-24-N, R-3-W Sec. 3: SW/4	160.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	<u>1.217968%</u>
			TOTAL			
			TRACT 5			
SF 078913	T-24-N, R-3-W Sec. 10: S/2, NE/4 Sec. 11: E/2, E/2 SW/4 Sec. 12: SW/4, NW/4 NW/4, S/2 SW/4, NW/4 SE/4 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 SW/2 NE/4, SE/4 NE/4	2240.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000% 74.218750% 13.281250%	12.500000% 74.218750% 13.281250%	<u>17.051544%</u>
			TOTAL			
			TRACT 6			
SF 078913	T-24-N, R-3-W Sec. 15: ALL Sec. 16: ALL Sec. 21: W/2, NE/4 Sec. 22: N/2	2080.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	<u>15.833577%</u>
			TOTAL			
			TRACT 7			
SF 078914	T-24-N, R-3-W Sec. 25: ALL	640.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	<u>4.871870%</u>
			TOTAL			
			TRACT 8			

## UNIT AREA EXPANSION SCHEDULE -- SAN JUAN BASIN

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## SCHEDULE XXVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078915	T-24-N, R-3-W	960.00	TRACT 9 Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	<u>7.307805%</u>
	Sec. 23: NW/4			74.218750%	74.218750%	
	Sec. 36: E/2, NW/4			13.281250%	13.281250%	
				<u>100.000000%</u>	<u>100.000000%</u>	
	TOTAL					
Patented	T-24-N, R-2-W	*320.00	TRACT 13 Royalty; Working Interest; El Paso Natural Gas Co.; Felmont Oil Co.; ORRI;	9.375000%	6.250000%	<u>1.826951%</u>
	Sec. 29: NW/4, SW/4			56.250000%	56.250000%	
	*Undivided 240.00 net acres committed			25.000000%	.000000%	
				9.375000%	9.375000%	
	TOTAL			<u>100.000000%</u>	<u>71.875000%</u>	
Patented	T-24-N, R-2-W	*320.00	TRACT 13-B Royalty; Working Interest; El Paso Natural Gas Co.; Felmont Oil Co.; Jane P. Guild; M. Dodge; Wilb & Co.; C. W. Gillette; James S. Gardner; Augustus P. Loring, III ORRI;	6.250000%	6.250000%	<u>1.217967%</u>
	Sec. 28: S/2 NW/4, SW/4			37.500000%	37.500000%	
	Sec. 29: E/2 SE/4			12.500000%	.000000%	
	*Undivided 160.00 net acres committed			.625000%	.000000%	
				.312000%	.000000%	
				25.000000%	.000000%	
				6.250000%	.000000%	
				4.688000%	.000000%	
				.625000%	.000000%	
	TOTAL			<u>100.000000%</u>	<u>50.000000%</u>	

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Patented	T-24-N, R-2-W	235.96	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	<u>1.796198%</u>
	Sec. 18: Lots 3, NE/4 SW/4, NE/4			74.218750%	74.218750%	
				13.281250%	13.281250%	
				<u>100.000000%</u>	<u>100.000000%</u>	
	TOTAL					
Patented	T-24-N, R-3-W	640.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	<u>4.871870%</u>
	Sec. 9: All			74.218750%	74.218750%	
				13.281250%	13.281250%	
				<u>100.000000%</u>	<u>100.000000%</u>	
	TOTAL					
Patented	T-24-N, R-2-W	311.98	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%	6.250000%	<u>2.374884%</u>
	Sec. 19: Lots 1, 2, E/2 NW/4, NE/4			74.218750%	74.218750%	
				13.281250%	13.281250%	
				<u>100.000000%</u>	<u>93.750000%</u>	
	TOTAL					

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Patented	T-24-N, R-3-W	320.00				2.435935%
	Sec. 13: SW/4 NW/4, N/2 S/2, S/2 SE/4		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	
	Sec. 24: NE/4 NE/4			74.218750%	74.218750%	
				13.281250%	13.281250%	
				100.000000%	100.000000%	
TOTAL						
TRACT 19						
Patented	T-24-N, R-2-W	160.00				1.217967%
	Sec. 9: NW/4		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	
				74.218750%	74.218750%	
				13.281250%	13.281250%	
				100.000000%	100.000000%	
TOTAL						
TRACT 22						
Patented	T-24-N, R-3-W	320.00				2.435935%
	Sec. 11: W/2 SW/4		*Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000%	.000000%	
	Sec. 14: NW/4, N/2 SW/4			74.218750%	74.218750%	
	*Royalty Interest not committed to Lindrith Unit.			13.281250%	13.281250%	
				100.000000%	87.500000%	
TOTAL						
TRACT 24						
Patented	T-24-N, R-2-W	160.00				1.217967%
	Sec. 21: NW/4		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.500000%	3.125000%	
				74.218750%	74.218750%	
				13.281250%	13.281250%	
				100.000000%	90.625000%	
TOTAL						
TRACT 25						

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 27</u>						
Patented	T-24-N, R-3-W	160.00				
	Sec. 12: NE/4 SE/4, S/2		Royalty;	12.500000%	12.500000%	
	NW/4, NE/4 NW/4		Working Interest;			
			El Paso Natural Gas Co.;	74.218750%	74.218750%	
			ORRI;	13.281250%	13.281250%	
			TOTAL	<u>100.000000%</u>	<u>100.000000%</u>	<u>1.217967%</u>

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## SCHEDULE XXVI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>R E C A P I T U L A T I O N</u>						
Description of Lands in Participating Area: Township 24 North, Range 2 West, N.M.P.M.						
Section 8:	NE/4					
Section 9:	NW/4					
Section 18:	Lots 1, 2, 3, E/2 W/2 (W/2), NE/4					
Section 19:	All					
Section 20:	All					
Section 21:	W/2, SE/4					
Section 28:	All					
Section 29:	All					
Section 30:	All					
Section 31:	All					
Section 32:	SE/4, W/2					
Township 24 North, Range 3 West, N.M.P.M.						
Section 3:	SW/4					
Section 9:	All					
Section 10:	S/2, NE/4					
Section 11:	E/2, SW/4					
Section 12:	SE/4, W/2					
Section 13:	All					
Section 14:	All					
Section 15:	All					
Section 16:	All					
Section 21:	W/2, NE/4					
Section 22:	N/2					
Section 23:	N/2, SE/4					
Section 24:	All					
Section 25:	All					
Section 36:	E/2, NW/4					
Total Number of Acres in Participating Area:						13,136.64

SCHEDULE XXVII  
 TWENTY-SIXTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
 LINDRUTH UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078907	T-24-N, R-3-W	160.00				<u>1.145586%</u>
	Sec. 6: SE/4		Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	
				74.218750%	74.218750%	
				13.281250%	13.281250%	
			TOTAL	<u>100.000000%</u>	<u>100.000000%</u>	
SF 078908	T-24-N, R-2-W	547.88				<u>3.922776%</u>
	Sec. 8: NE/4		Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	
	Sec. 17: N/2 NW/4, S/2 SW/4,			74.218750%	74.218750%	
	Sec. 18: Lots 1, 2, 4, E/2 NW/4, SE/4 SW/4			13.281250%	13.281250%	
			TOTAL	<u>100.000000%</u>	<u>100.000000%</u>	
SF 078909	T-24-N, R-2-W	1664.29				<u>11.916180%</u>
	Sec. 19: Lots 3, 4, E/2 SW/4, SE/4		Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	
	Sec. 20: All			74.218750%	74.218750%	
	Sec. 21: S/2			13.281250%	13.281250%	
	Sec. 30: Lots 1, 2, E/2 NW/4, NE/4			<u>100.000000%</u>	<u>100.000000%</u>	
	T-24-N, R-3-W					
	Sec. 24: E/2 SE/4					



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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078910	T-24-N, R-2-W	2296.53				
	Sec. 28: NE/4, SE/4, N/2 NW/4		Royalty; Working Interest: El Paso Natural Gas Co.;	12.500000%	12.500000%	
	Sec. 29: NE/4, W/2 SE/4			74.218750%	74.218750%	
	Sec. 30: Lots 3, 4, E/2 SW/4, SE/4		ORRI;	13.281250%	13.281250%	
	Sec. 31: Lots 1, 2, 3, 4, E/2 W/2, E/2					
	Sec. 32: SE/4, W/2					
	T-24-N, R-3-W					
SF 078911	Sec. 24: SW/4, W/2 SE/4		TOTAL	100.000000%	100.000000%	
	T-24-N, R-3-W	320.00				2.291174%
	Sec. 3: S/2		Royalty; Working Interest: El Paso Natural Gas Co.;	12.500000%	12.500000%	
			ORRI; .	74.218750%	74.218750%	
				13.281250%	13.281250%	
			TOTAL	100.000000%	100.000000%	
			TRACT 6			17.183804%
SF 078913	T-24-N, R-3-W	2400.00				
	Sec. 10: S/2, NE/4		Royalty;	12.500000%	12.500000%	
	Sec. 11: E/2, E/2 SW/4, NW/4		Working Interest:	74.218750%	74.218750%	
	Sec. 12: SW/4, NW/4 NW/4, S/2 SW/4, NW/4 SE/4		El Paso Natural Gas Co.;	13.281250%	13.281250%	
	Sec. 13: E/2 NW/4, NW/4 NW/4, S/2 SW/4, NE/4		ORRI;			
	Sec. 14: E/2, S/2 SW/4					
	Sec. 24: NW/4 SW/2 NE/4, SE/4 NE/4		TOTAL	100.000000%	100.000000%	

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078913	T-24-N, R-3-W	2240.00				<u>16.038217%</u>
	Sec. 15: All		Royalty;	12.500000%	12.500000%	
	Sec. 16: All		Working Interest:			
	Sec. 21: All		El Paso Natural Gas Co.;	74.218750%	74.218750%	
	Sec. 22: N/2		ORRI;	13.281250%	13.281250%	
			TOTAL	<u>100.000000%</u>	<u>100.000000%</u>	
SF 078914	T-24-N, R-3-W	640.00				<u>4.582348%</u>
	Sec. 25: All		Royalty;	12.500000%	12.500000%	
			Working Interest:			
			El Paso Natural Gas Co.;	74.218750%	74.218750%	
			ORRI;	13.281250%	13.281250%	
			TOTAL	<u>100.000000%</u>	<u>100.000000%</u>	
SF 078915	T-24-N, R-3-W	960.00				<u>6.873521%</u>
	Sec. 23: NW/4		Royalty;	12.500000%	12.500000%	
	Sec. 36: E/2, NW/4		Working Interest:			
			El Paso Natural Gas Co.;	74.218750%	74.218750%	
			ORRI;	13.281250%	13.281250%	
			TOTAL	<u>100.000000%</u>	<u>100.000000%</u>	
Patented	T-24-N, R-2-W	*320.00				<u>1.718380%</u>
	Sec. 29: NW/4, SW/4		Royalty;	9.375000%	6.250000%	
	*Undivided 240.00 net acres committed		Working Interest:			
			El Paso Natural Gas Co.;	56.250000%	56.250000%	
			Felmont Oil Co.;	25.000000%	.000000%	
		ORRI;	9.375000%	9.375000%		
			TOTAL	<u>100.000000%</u>	<u>71.875000%</u>	

SCHEDULE XXVII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Patented	T-24-N, R-2-W Sec. 33: N/2 *Undivided 30.00 net acres committed.	*320.00	Royalty; Working Interest: El Paso Natural Gas Co. Felmont Oil Co., et al ORRI;	1.171875%	1.171875%	.214798%
				6.958008%	6.958008%	
				90.625000%	.000000%	
				1.245117%	1.245117%	
			TOTAL	100.000000%	9.375000%	
TRACT 13-A						
Patented	T-24-N, R-2-W Sec. 28: S/2 NW/4, SW/4 Sec. 29: E/2 SE/4 *Undivided 160.00 net acres committed	*320.00	Royalty; Working Interest: El Paso Natural Gas Co.; Felmont Oil Co.; Jane P. Guild; M. Dodge; Wilb & Co.; C. W. Gillette; James S. Gardner; Augustus P. Loring, III ORRI;	6.250000%	6.250000%	1.145587%
				37.500000%	37.500000%	
				12.500000%	.000000%	
				.625000%	.000000%	
				.312000%	.000000%	
				25.000000%	.000000%	
				6.250000%	.000000%	
				4.688000%	.000000%	
				.625000%	.000000%	
			TOTAL	6.250000%	6.250000%	
TRACT 16						
Patented	T-24-N, R-2-W Sec. 18: Lots 3, NE/4 SW/4, NE/4	235.96	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	1.689454%
				74.218750%	74.218750%	
				13.281250%	13.281250%	
			TOTAL	100.000000%	100.000000%	

SCHEDULE XXVII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Patented	T-24-N, R-3-W Sec. 9: All	640.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	<u>4.582348%</u>
			TOTAL			
			TRACT 17			
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;	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	6.250000% 74.218750% 13.281250% <u>93.750000%</u>	<u>2.233751%</u>
			TOTAL			
			TRACT 18			
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;	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	<u>2.291174%</u>
			TOTAL			
			TRACT 19			
Patented	T-24-N, R-2-W Sec. 9: NW/4	160.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	12.500000% 74.218750% 13.281250% <u>100.000000%</u>	<u>1.145587%</u>
			TOTAL			
			TRACT 22			

SCHEDULE XXVII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Patented	T-24-N, R-3-W	320.00				
	Sec. 11: W/2 SW/4			12.500000%	.000000%	
	Sec. 14: NW/4, N/2 SW/4		*Royalty; Working Interest: El Paso Natural Gas Co.;	74.218750%	74.218750%	
	*Royalty Interest not committed to Lindrieth Unit.		ORRI;	13.281250%	13.281250%	
	TOTAL			100.000000%	87.500000%	2.291174%
Patented	T-24-N, R-2-W	160.00				
	Sec. 21: NW/4			12.500000%	12.500000%	
			Royalty; Working Interest: El Paso Natural Gas Co.;	74.218750%	74.218750%	
			ORRI;	13.281250%	13.281250%	
	TOTAL			100.000000%	100.000000%	1.145587%
Patented	T-24-N, R-3-W	160.00				
	Sec. 12: NE/4 SE/4, S/2 NW/4, NE/4 NW/4			12.500000%	12.500000%	
			Royalty; Working Interest: El Paso Natural Gas Co.;	74.218750%	74.218750%	
			ORRI;	13.281250%	13.281250%	
	TOTAL			100.000000%	100.000000%	1.145587%

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

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

## Description of Lands in Participating Area:

Township 24 North, Range 2 West, N.M.P.M.

Section 6: SE/4  
Section 8: NE/4  
Section 9: NW/4  
Section 17: N/2 NW/4, S/2 SW/4  
Section 18: Lots 1, 2, 3, 4, E/2 W/2 (W/2), NE/4  
Section 19: All  
Section 20: All  
Section 21: W/2, SE/4  
Section 28: All  
Section 29: All  
Section 30: All  
Section 31: All  
Section 32: SE/4, W/2  
Section 33: N/2

Township 24 North, Range 3 West, N.M.P.M.

Section 3: S/2  
Section 9: All  
Section 10: S/2, NE/4  
Section 11: E/2, E/2 SW/4, NW/4  
Section 12: SE/4, W/2  
Section 13: All  
Section 14: All  
Section 15: All  
Section 16: All  
Section 21: All  
Section 22: N/2  
Section 23: N/2, SE/4  
Section 24: All  
Section 25: All  
Section 36: E/2, NW/4

Total Number of Acres in Participating Area:

13,966.64

SCHEDULE XXVIII  
TWENTY-SEVENTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
LINDRITH UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078907	T-24-N, R-3-W	160.00				<u>1.119927%</u>
	Sec. 6: SE/4		Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	
				74.218750%	74.218750%	
				13.281250%	13.281250%	
			TOTAL	<u>100.000000%</u>	<u>100.000000%</u>	
SF 078908	T-24-N, R-2-W	627.88				<u>4.394876%</u>
	Sec. 8: NE/4		Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	
	Sec. 17: N/2 NW/4, S/2 SW/4			74.218750%	74.218750%	
	Sec. 18: Lots 1, 2, 4, E/2 NW/4, SE/4 SW/4, S/2 SE/4			13.281250%	13.281250%	
			TOTAL	<u>100.000000%</u>	<u>100.000000%</u>	
SF 078909	T-24-N, R-2-W	1664.29				<u>11.649276%</u>
	Sec. 19: Lots 3, 4, E/2 SW/4, SE/4		Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%	12.500000%	
	Sec. 20: All			74.218750%	74.218750%	
	Sec. 21: S/2			13.281250%	13.281250%	
	Sec. 30: Lots 1, 2, E/2 NW/4, NE/4			<u>100.000000%</u>	<u>100.000000%</u>	
	T-24-N, R-3-W			TOTAL	<u>100.000000%</u>	
	Sec. 24: E/2 SE/4					

## UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

Form 21-71 (2-72)

## SCHEDULE XXVIII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP		DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
SF 078910	T-24-N, R-2-W	2296.53			TRACT 4			16.074669%
	Sec. 28: NE/4, SE/4, N/2 NW/4		Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;			12.500000%	12.500000%	
	Sec. 29: NE/4, W/2 SE/4					74.218750%	74.218750%	
	Sec. 30: Lots 3, 4, E/2 SW/4, SE/4					13.281250%	13.281250%	
	Sec. 31: Lots 1, 2, 3, 4, E/2 W/2, E/2							
	Sec. 32: SE/4, W/2							
	T-24-N, R-3-W							
	Sec. 24: SW/4, W/2 SE/4		TOTAL			100.000000%	100.000000%	
SF 078911	T-24-N, R-3-W	320.00			TRACT 5			2.239855%
	Sec. 3: S/2		Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;			12.500000%	12.500000%	
						74.218750%	74.218750%	
						13.281250%	13.281250%	
						100.000000%	100.000000%	
			TOTAL					
			TRACT 6					
SF 078913	T-24-N, R-3-W	2400.00			TRACT 6			16.798911%
	Sec. 10: S/2, NE/4		Royalty;			12.500000%	12.500000%	
	Sec. 11: E/2, E/2 SW/4, NW/4		Working Interest: El Paso Natural Gas Co.;			74.218750%	74.218750%	
	Sec. 12: SW/4, NW/4 NW/4, S/2 SW/4, NW/4 SE/4		ORRI;			13.281250%	13.281250%	
	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 SW/2 NE/4, SE/4 NE/4		TOTAL			100.000000%	100.000000%	



## UNIT AREA EXPANSION SCHEDULE -- SAN JUAN BASIN

Form 21-71 (2-72)

## SCHEDULE XXVIII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078913	T-24-N, R-3-W	2400.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;  TOTAL	12.500000%	12.500000%	16.798911%
	Sec. 15: All			74.218750%	74.218750%	
	Sec. 16: All			13.281250%	13.281250%	
	Sec. 21: All			100.000000%	100.000000%	
	Sec. 22: N/2, SW/4					
SF 078914	T-24-N, R-3-W	640.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;  TOTAL	12.500000%	12.500000%	4.479710%
	Sec. 25: All			74.218750%	74.218750%	
				13.281250%	13.281250%	
				100.000000%	100.000000%	
SF 078915	T-24-N, R-3-W	960.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;  TOTAL	12.500000%	12.500000%	6.719565%
	Sec. 23: NW/4			74.218750%	74.218750%	
	Sec. 36: E/2, NW/4			13.281250%	13.281250%	
				100.000000%	100.000000%	
Patented	T-24-N, R-2-W	*320.00 *Undivided 240.00 net acres committed	Royalty; Working Interest: El Paso Natural Gas Co.; Felmont Oil Co.; ORRI;  TOTAL	9.375000%	6.250000%	1.679891%
	Sec. 29: NW/4, SW/4			56.250000%	56.250000%	
				25.000000%	.000000%	
				9.375000%	9.375000%	
				100.000000%	71.875000%	

SCHEDULE XXVIII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION		
			OWNERSHIP	PERCENTAGE				
Patented	T-24-N, R-2-W Sec. 33: N/2 *Undivided 30.00 net acres committed.	*320.00	Royalty; Working Interest: El Paso Natural Gas Co.; Felmont Oil Co., et al ORRI;	1.171875%  6.958008% 90.625000% 1.245117% <u>100.000000%</u>	1.171875%  6.958008% .000000% 1.245117% <u>9.375000%</u>	<u>.209986%</u>		
	TOTAL							
	<u>TRACT 13A</u>							
	Patented	T-24-N, R-2-W Sec. 28: S/2 NW/4, SW/4 Sec. 29: E/2 SE/4 *Undivided 160.00 net acres committed	*320.00	Royalty; Working Interest: El Paso Natural Gas Co.; Felmont Oil Co.; Jane P. Guild; M. Dodge; Wilb & Co.; C. W. Gillette; James S. Gardner; Augustus P. Loring, III ORRI;	6.250000%  37.500000% 12.500000% .625000% .312000% 25.000000% 6.250000% 4.688000% .625000% <u>6.250000%</u> <u>100.000000%</u>		6.250000%  37.500000% .000000% .000000% .000000% .000000% .000000% .000000% .000000% <u>6.250000%</u> <u>50.000000%</u>	<u>1.119927%</u>
		TOTAL						
		<u>TRACT 13-B</u>						
Patented		T-24-N, R-2-W Sec. 18: Lots 3, NE/4, SW/4, NE/4, N/2 SE/4	315.96	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%  74.218750% 12.281250% <u>100.000000%</u>	12.500000%  74.218750% 13.281250% <u>100.000000%</u>	<u>2.211577%</u>	
		TOTAL						
		<u>TRACT 16</u>						

## UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

Form 21-71 (2-72)

## SCHEDULE XXVIII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Patented	T-24-N, R-3-W Sec. 9: All	640.00	TRACT 17			4.479710%
	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;			12.500000%	12.500000%	
				74.218750%	74.218750%	
				13.281250%	13.281250%	
	TOTAL			100.000000%	100.000000%	
Patented	T-24-N, R-2-W Sec. 19: Lots 1, 2, E/2 NW/4, NE/4	311.98	TRACT 18			2.183718%
	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;			12.500000%	6.250000%	
				74.218750%	74.218750%	
				13.281250%	13.281250%	
	TOTAL			100.000000%	93.750000%	
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	TRACT 19			2.239855%
	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;			12.500000%	12.500000%	
				74.281750%	72.281750%	
				13.218250%	13.218250%	
	TOTAL			100.000000%	100.000000%	
Patented	T-24-N, R-2-W Sec. 9: NW/4	160.00	TRACT 22			1.119927%
	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;			12.500000%	12.500000%	
				74.281750%	74.281750%	
				13.218250%	13.218250%	
	TOTAL			100.000000%	100.000000%	

## UNIT AREA EXPANSION SCHEDULE - SAN JUAN BASIN

Form 21-71 (2-72)

## SCHEDULE XXVIII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 24</u>						
Patented	T-24-N, R-3-W Sec. 11: W/2 SW/4 Sec. 14: NW/4, N/2 SW/4 *Royalty Interest not committed to Lindrith Unit.	320.00	*Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%  75.000000% 12.500000% <u>100.000000%</u>	.000000%  75.000000% 12.500000% <u>87.500000%</u>	<u>2.239855%</u>
<u>TRACT 25</u>						
Patented	T-24-N, R-2-W Sec. 21: NW/4	160.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%  75.000000% 12.500000% <u>100.000000%</u>	3.125000%  75.000000% 12.500000% <u>90.625000%</u>	<u>1.119927%</u>
<u>TRACT 27</u>						
Patented	T-24-N, R-3-W Sec. 12: NE/4 SE/4, S/2 NW/4, NE/4 NW/4 *Royalty Interest Not Committed to Lindrith Unit.	160.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.500000%  75.000000% 12.500000% <u>100.000000%</u>	.000000%  75.000000% 12.500000% <u>87.500000%</u>	<u>1.119927%</u>

SCHEDULE XXVIII

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

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

Description of Lands in Participating Area:

Township 24 North, Range 2 West, N.M.P.M.

Section 6: SE/4  
Section 8: NE/4  
Section 9: NW/4  
Section 17: N/2 NW/4, S/2 SW/4  
Section 18: All  
Section 19: All  
Section 20: All  
Section 21: W/2, SE/4  
Section 28: All  
Section 29: All  
Section 30: All  
Section 31: All  
Section 32: SE/4, W/2  
Section 33: N/2

Township 24 North, Range 3 West, N.M.P.M.

Section 3: S/2  
Section 9: All  
Section 10: S/2, NE/4  
Section 11: E/2, E/2 SW/4, NW/4  
Section 12: SE/4, W/2  
Section 13: All  
Section 14: All  
Section 15: All  
Section 16: All  
Section 21: All  
Section 22: N/2, SW/4  
Section 23: N/2, SE/4  
Section 24: All  
Section 25: All  
Section 36: E/2, NW/4

Total Number of Acres in Participating Area: 14,816.64  
Total Number of Acres Committed to Participating Area: 14,286.64



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

July 21, 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: T. W. Britten

159

Re: 1982 Plan of Development  
Lindrieth "B" Unit  
Chacon-Dakota Formation  
Rio Arriba County  
OCD Case 159

Dear Mr. Britten:

Enclosed please find an approved copy of the material referenced above. Such approval is contingent upon like approval by the Commissioner of Public Lands and the U. S. Minerals Management Service.

Sincerely,

W. PERRY PEARCE  
General Counsel

WPP/dr

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



IN REPLY  
REFER TO:

75277  
JUL 14 1982  
United States Department of the Interior  
MINERALS MANAGEMENT SERVICE  
SOUTH CENTRAL REGION  
505 MARQUETTE AVENUE, N.W., SUITE 815  
ALBUQUERQUE, NEW MEXICO 87102

JUL 13 1982

El Paso Natural Gas Company  
Attention: T. W. Bittick  
P. O. Box 1492  
El Paso, Texas 79978

159

Gentlemen:

Four approved copies of your 1982 plan of development for the Lindrith "B" unit area, Rio Arriba County, New Mexico, are enclosed. Such plan, proposing to drill two Chacon-Dakota wells, was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

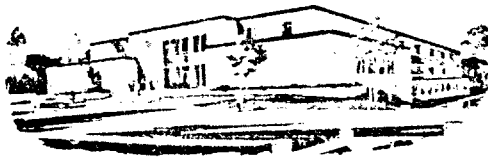
(ORIG. SGL.) JAMES W. SHELTON

FOR Gene F. Daniel  
Deputy Minerals Manager  
Oil and Gas

Enclosures

cc:  
Comm. of Public Lands  
NMOCD

# State of New Mexico



## Commissioner of Public Lands

ALEX J. ARMIJO  
COMMISSIONER

June 16, 1982

P. O. BOX 1148  
SANTA FE, NEW MEXICO 87501X  
87504-1148

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

Re: 1982 Plan of Development  
Lindrith "B" Unit  
Chacon-Dakota Formation  
Rio Arriba County, New Mexico

159

ATTENTION: Mr. T. W. Bittick

Gentlemen:

The Commissioner of Public Lands has this date approved your 1982 Plan of Development for the Lindrith "B" Unit Chacon-Dakota formation, Rio Arriba County, New Mexico. Such plan proposes the drilling of two Chacon/Dakota wells being the Well Nos. 22 and 23 during 1982. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the United States Minerals Management Service.

Enclosed is one approved copy for your files.

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

Very truly yours,

ALEX J. ARMIJO  
COMMISSIONER OF PUBLIC LANDS

BY:  
FLOYD O. PRANDO, Assistant Director  
Oil and Gas Division  
AC 505/827-2748

AJA/FOP/pm  
encls.  
cc:

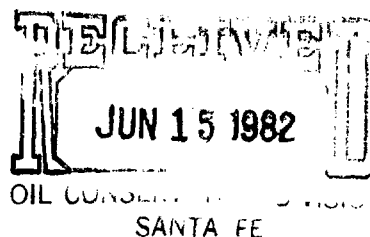
OCD-Santa Fe, New Mexico  
USMMS-Albuquerque, New Mexico  
Administration



**El Paso** NATURAL GAS  
COMPANY

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

May 25, 1982



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

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

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

Re: 1982 Plan of Development  
Lindrith "B" Unit  
Chacon-Dakota Formation  
Rio Arriba County, New Mexico

Gentlemen:

By Designation of Sub-Operator dated May 7, 1979, El Paso Natural Gas Company et al designated Mobil Oil Corporation as operator of the Lindrith Unit for all formations below the base of the Pictured Cliffs formation (except as to the Dakota Formation in the W/2 of Section 34, Township 24 North, Range 3 West).

By letter dated January 27, 1981 El Paso Natural Gas Company, as operator of the Lindrith Unit on behalf and at the request of Mobil Producing Texas & New Mexico, Inc., successor to Mobil Oil Corporation as sub-operator of the Lindrith Unit, filed a Drilling Program covering the captioned Unit for the Calendar year 1981 providing for the drilling of eleven (11) Chacon/Dakota formation wells.

All of the originally proposed eleven (11) Chacon/Dakota wells have been completed and are currently being evaluated to determine whether they are capable of producing unitized substances so as to cause an expansion of the Participating Area for the Chacon/Dakota Formation.

159

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

Chacon/Dakota	9
Chacon/Dakota, Being Evaluated	<u>11</u>
	20

Pursuant to Section 9 of the Lindrith Unit Agreement, El Paso Natural Gas Company, as operator of the Lindrith Unit on behalf of and at the request of Mobil Producing Texas & New Mexico, Inc. successor to Mobil Oil Corporation as sub-operator of the Lindrith Unit, respectfully submits for your approval the 1981 Plan of Development for the Chacon-Dakota Formation, designated as the Lindrith "B" Unit providing for the drilling of the following wells during calendar year 1981.

<u>Well</u>	<u>Drilling Block</u>	<u>Formation</u>
#23	NE/4 Section 16-24N-3W	Chacon/Dakota
#22	NW/4 Section 15-24N-3W	Chacon/Dakota

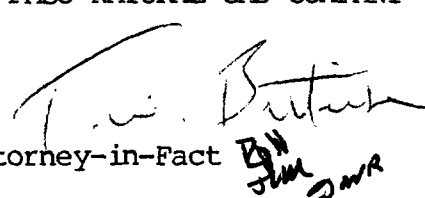
All working interest owners have been contacted, and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

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 as shown below.

Very truly yours,

EL PASO NATURAL GAS COMPANY

  
Attorney-in-Fact *BN*  
*Jim* *DNR*


TWB:RJH:ljg  
Attachments  
Lindrith "B" Unit, 3.0

APPROVED: \_\_\_\_\_  
Area Oil and Gas Supervisor  
United States Geological Survey  
(Subject to like approval by the  
Commissioner of Public Lands and  
the Oil Conservation Division)

DATED: \_\_\_\_\_

APPROVED: \_\_\_\_\_  
Commissioner of Public Lands  
(Subject to like approval by the  
United States Geological Survey  
& the Oil Conservation Division)

DATED: \_\_\_\_\_

APPROVED:   
Oil Conservation Division  
(Subject to like approval by the  
United States Geological Survey  
& the Commissioner of Public Lands)

DATED: 7/20/82

The foregoing approvals are for the 1982 Plan of Development for the  
Lindrith "B" Unit, Rio Arriba County, New Mexico.

LINDRITH UNIT  
WORKING INTEREST OWNERS

Conoco, Inc.

Mobil Oil Corporation (3)

Tenneco Oil Company

MAY 14 1982

MAY 12 1982

159

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

Gentlemen:

Three approved copies of your 1982 plan of development for the Lindrith unit area, Rio Arriba County, New Mexico, are enclosed. Such plan, proposing to drill four Pictured Cliffs wells, 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:  
Comm of Public Lands, Santa Fe  
NMOCD, Santa Fe  
DS, Farmington (w/encl)



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

April 19, 1982

BRUCE KING  
GOVERNOR

LARRY KEHOE  
SECRETARY

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

159  
El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79978

Attention: Mr. D. N. Canfield

Re: 1982 Plan of Development for  
Lindrith 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 Lindrith Unit, Rio Arriba County, New Mexico. Our approval is subject to like approval by the Minerals Management Service and the Commissioner of Public Lands of the State of New Mexico.

Sincerely,

W. PERRY PEARCE  
General Counsel

WPP/dr

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

# State of New Mexico



ALEX J. ARMIJO  
COMMISSIONER



## Commissioner of Public Lands

April 2, 1982

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

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

159

Re: 1982 Plan of Development  
Lindrith Unit  
Pictured Cliffs Formation  
Rio Arriba County, New Mexico

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1982 Plan of Development for the Lindrith Unit Pictured Cliffs Formation Rio Arriba County, New Mexico. Such plan proposes the drilling of four Pictured Cliffs Wells during 1982. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the United States Minerals Management Service.

Enclosed is one approved Copy for your files.

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

Very truly yours,

ALEX J. ARMIJO  
COMMISSIONER OF PUBLIC LANDS

BY:  
FLOYD O. PRANDO, Assistant Director  
Oil and Gas Division  
AC 505/827-2748

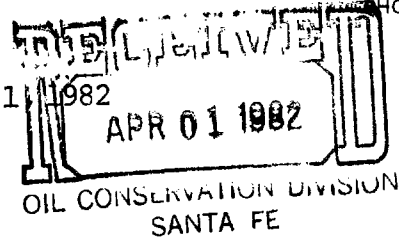
AJA/FOP/pm  
encls.  
cc:

OCD-Santa Fe, New Mexico  
USMMS-Albuquerque, New Mexico

**El Paso** NATURAL GAS  
COMPANY

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

March 31, 1982



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

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

159

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

Re: Lindrith Unit I Section No. 713  
Rio Arriba County, New Mexico  
1982 Drilling Program

Gentlemen:

By letter dated November 7, 1980, El Paso Natural Gas Company, as Unit Operator of the Lindrith Unit, filed a Drilling Program covering the subject Unit for the calendar year 1981 providing for the drilling of four (4) Pictured Cliffs wells (#104, #105, #106, #107). The #104 and #107 wells were drilled. Four (4) wells (Jo Ann's Jewel #2, Jo Ann's Jewel #3, Di's Delight #1, Di's Delight #2) were drilled by outside operators on drilling blocks which were fifty percent (50%) unit acreage. All wells were drilled outside the Pictured Cliffs Participating Area and are currently being tested to determine whether each will be commercial thereby causing an expansion.

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

Pictured Cliffs (Gas)	88
Pictured Cliffs (Non-commercial)	5
Pictured Cliffs, Being Evaluated	6
Dakota	1
Gallup	1
Plugged and Abandoned	12
	<u>113</u>

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 1982.



March 10, 1982  
Page Two

<u>Well</u>	<u>Drilling Block</u>	<u>Formation</u>
#105	SW/4 Section 2-24N-3W	Pictured Cliffs
#109	SW/4 Section 7-24N-2W	Pictured Cliffs
#110	SE/4 Section 2-24N-3W	Pictured Cliffs
#111	SE/4 Section 28-24N-3W	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.

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

Very truly yours,

  
D. N. Canfield  
Attorney-In-Fact

DNC/RJH/gs  
Attachments  
Lindrith Unit, 3.0

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

DATE: \_\_\_\_\_

Approved: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Division

DATE: \_\_\_\_\_

Approved: W. Stanley R. R. R.  
Oil Conservation Division  
Subject to like approval by the  
United States Geological Survey  
and the Commissioner of Public Lands

DATE: 4/9/82

The foregoing approvals for the 1982 Drilling Program for the Lindrith Unit I,  
Section No. 713, Rio Arriba County, New Mexico.

LINDRITH UNIT  
WORKING INTEREST OWNERS

Conoco, Inc.

Mobil Oil Corporation (3)

Tenneco Oil Company

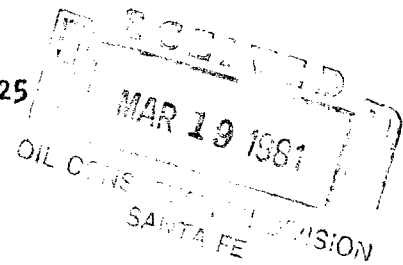


IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR

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

17 MAR 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 amended plan of development for the Lindrith unit area, San Juan County, New Mexico, are enclosed. Such plan, proposing to drill 11 Chacon/Dakota wells, 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

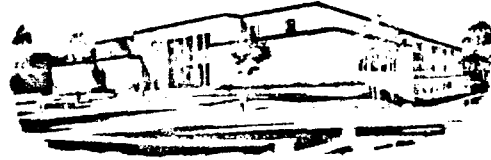
Enclosures 3

cc:  
NMOCD, Santa Fe/  
Comm. Public Lands, Santa Fe

# State of New Mexico



ALEX J. ARMIJO  
COMMISSIONER



## Commissioner of Public Lands

March 6, 1981

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

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

159

Re: 1981 Plan of Development  
Lindrith "B" Unit  
Chacon-Dakota Formation  
Rio Arriba County, New Mexico

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1981 Plan of Development for the Lindrith "B" Unit Chacon-Dakota formation, Rio Arriba County, New Mexico. Such plan proposes the drilling of ten Chacon/Dakota wells during 1981. Well No. 16 was drilled in December, 1980 under emergency permit. Our approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Division.

Enclosed is one approved copy for your files.

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

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  
encls.  
cc:

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

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 20, 1981

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

Attention: D. N. Canfield

Re: Case No. 159  
Lindrith "B" Unit  
1981 Plan of Development

Gentlemen:

We hereby approve the 1981 Plan of Development for the Lindrith "B" 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 Plan of Development is returned herewith.

Yours very truly,

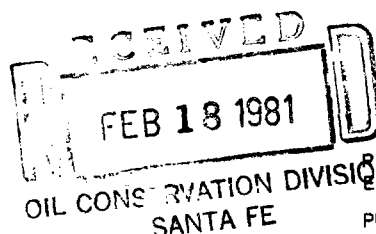
JOE D. RAMEY  
Director

JDR/EP/fd  
enc.

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

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**El Paso** NATURAL GAS  
COMPANY



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

January 27, 1981

159

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

OK  
E/P  
2/18/81

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: 1981 Plan of Development  
Lindrith "B" Unit  
Chacon-Dakota Formation  
Rio Arriba County, New Mexico

Gentlemen:

By Designation of Sub-Operator dated May 7, 1979, El Paso Natural Gas Company et al designated Mobil Oil Corporation as operator of the Lindrith Unit for all formations below the base of the Pictured Cliffs formation (except as to the Dakota Formation in the W/2 of Section 34, Township 24 North, Range 3 West).

By letter dated February 20, 1980 El Paso Natural Gas Company, as operator of the Lindrith Unit on behalf and at the request of Mobil Producing Texas & New Mexico, Inc., successor to Mobil Oil Corporation as sub-operator of the Lindrith Unit, filed a Drilling Program covering the captioned Unit for the Calendar year 1980 providing for the drilling of eight (8) Chacon/Dakota formation wells. Subsequent to the 1980 Drilling Program being approved, El Paso at the request of Mobil filed a Revised Drilling Program for 1980 by letter dated November 6, 1980. Said Revised Drilling Program requested approval of the drilling of two (2) additional Chacon/Dakota formation wells.

All of the originally proposed eight (8) Chacon/Dakota wells have been completed and are currently being evaluated to determine whether they are capable of reproducing unitized substances so as to cause an expansion of the Participating Area for the Chacon/Dakota Formation. Pending approval of the Revised Drilling Program the two (2) additional Chacon/Dakota wells will be drilled in 1980.

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

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

Chacon/Dakota	2
Chacon/Dakota, Being Evaluated	9
	<u>11</u>

Pursuant to Section 9 of the Lindrith Unit Agreement, El Paso Natural Gas Company, as operator of the Lindrith Unit on behalf of and at the request of Mobil Producing Texas & New Mexico, Inc. successor to Mobil Oil Corporation as sub-operator of the Lindrith Unit, respectfully submits for your approval the 1981 Plan of Development for the Chacon-Dakota Formation, designated as the Lindrith "B" Unit providing for the drilling of the following wells during calendar year 1981.

<u>Well</u>	<u>Drilling Block</u>	<u>Formation</u>
#12	SW/4 Section 22-24N-3W	Chacon/Dakota
#13	NW/4 Section 27-24N-3W	Chacon/Dakota
#14	NW/4 Section 16-24N-3W	Chacon/Dakota
#16*	NE/4 Section 21-24N-3W	Chacon/Dakota
#17	SE/4 Section 16-24N-3W	Chacon/Dakota
#18	NW/4 Section 22-24N-3W	Chacon/Dakota
#19	NE/4 Section 27-24N-3W	Chacon/Dakota
#20	NW/4 Section 26-24N-3W	Chacon/Dakota
#21	SW/4 Section 15-24N-3W	Chacon/Dakota
#22	SE/4 Section 22-24N-3W	Chacon/Dakota
#23	SW/4 Section 23-24N-3W	Chacon/Dakota



\* Drilled under emergency permit in December, 1980

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 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 as shown below.

Very truly yours,

  
D. N. Canfield  
Attorney-in-Fact 

DNC/RJH/en  
Attachments  
Lindrith Unit, 3.0

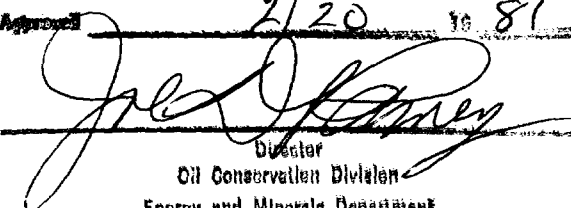


**LINDRITH UNIT**  
**WORKING INTEREST OWNERS**

Conoco, Inc.

Mobil Oil Corporation (3)

Tenneco Oil Company

Approved 2/20 1981  
  
Director  
Oil Conservation Division  
Energy and Minerals Department

THIS APPROVAL GRANTED SUBJECT TO LIFE APPROVAL  
BY THE COMMISSIONER OF PUBLIC LANDS OF THE STATE OF NEW MEXICO.

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 17, 1981

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

Attention: James R. Permenter

Re: Case No. 159  
Lindrith "B" Unit  
1980 Revised Drilling Program

Gentlemen:

We hereby approve the 1980 Revised Drilling Program for the Lindrith "B" Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Four approved copies of the Revised Drilling Program are returned herewith.

Yours very truly,

JOE D. RAMEY  
Director

JDR/EP/fd  
enc.

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

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**El Paso** NATURAL GAS  
COMPANY

P. O. BOX 1497  
EL PASO, TEXAS 79978  
PHONE: 915-543-2600

November 6, 1980

Area Oil and Gas Supervisor  
United States Geological Survey  
P. O. 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: Revised Plan of Development  
Lindrith "B" Unit  
Chacon-Dakota Formation  
Rio Arriba County, New Mexico

Gentlemen:

By letter dated February 20, 1980 El Paso Natural Gas Company, as operator of the Lindrith Unit on behalf of and at the request of Mobil Producing Texas & New Mexico, Inc. (successor to Mobil Oil Corporation as sub-operator of the Lindrith Unit), filed a Drilling Program regarding the captioned unit for the calendar year 1980. Said program provided for the drilling of eight (8) Chacon-Dakota Formation wells.

Pursuant to Section 9 of the Lindrith Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Revised Drilling Program for the calendar year 1980 providing for the drilling of the original eight (8) wells and the addition of the following two (2) wells:

<u>Well</u>	<u>Spacing Unit</u>	<u>Formation</u>
#11	SW/4 Section 16, T-24-N, R-3-W	Chacon/Dakota
#15	SE/4 Section 21, T-24-N, R-3-W	Chacon/Dakota

NOV 12 1980  
OIL CONSERVATION DIVISION  
SANTA FE


Both the #11 and #15 are outside the current participating area and, if commercial, will cause an expansion. All of the working interest owners have been contacted regarding these additional wells and this Revised Drilling Program reflects their desires.

This Revised Drilling Program is also a supplement to the 1980 Drilling Program filed by El Paso Natural Gas Company on January 7, 1980 which has heretofore been approved by the Regulatory Agencies.

If this Revised 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.

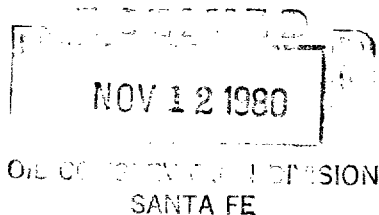
Copies of this letter are being sent to the working interest owners.

Very truly yours,

  
James R. Permenter *J.R.*  
Director, Land Administration

JRP:JL:en  
Lindrieth Unit, 3.0

cc: Mr. Jim F. Simes  
P. O. Box 959  
Farmington, NM 87401



APPROVED:

DATED: \_\_\_\_\_

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


APPROVED:

DATED: \_\_\_\_\_

Commissioner of Public Lands  
(Subject to like approval by the  
United States Geological Survey  
& the Oil Conservation Division)

APPROVED:

DATED: 2/17/81

  
Oil Conservation Division  
(Subject to like approval by the  
United States Geological Survey  
& the Commissioner of Public Lands)

RECEIVED  
NOV 12 1980  
OIL CONSERVATION DIVISION  
SANTA FE

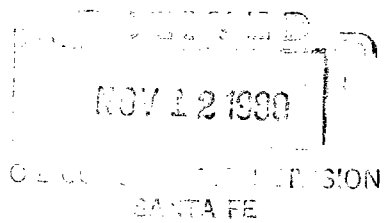
The foregoing approvals are for the 1980 Drilling Program for the  
Lindrith Unit 1, Section No. 713, Rio Arriba County, New Mexico.

LINDRITH UNIT  
WORKING INTEREST OWNERS

Conoco, Inc.

Mobil Oil Corporation (3)

Tenneco Oil Company

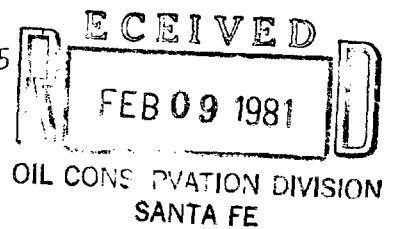




# United States Department of the Interior

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

04 FEB 1981



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

159

Gentlemen:

Three approved copies of your 1981 plan of development for the Lindrith unit area, Rio Arriba County, New Mexico, proposing to drill four Pictured Cliffs wells, are enclosed. Such plan was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

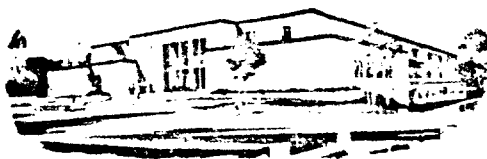
ORIGINAL SIGNED BY:

Gene F. Daniel  
Deputy Conservation Manager  
Oil and Gas

Enclosures

cc:  
NMOCD, Santa Fe (ltr only)

# State of New Mexico



159

ALEX J. ARMIJO  
COMMISSIONER

Commissioner of Public Lands  
February 9, 1981

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

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

Re: Initial Participating Area for  
the Dakota Formation under the  
Lindrith "B" Unit  
Lindrith Unit Agreement  
Rio Arriba County, New Mexico

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved the Initial Chacon Dakota Formation Participating Area for the Lindrith "B" Unit, Lindrith Unit Agreement, Rio Arriba County, New Mexico. Our approval is subject to like approval by the United States Geological Survey.

Enclosed is one approved copy for your files.

Very truly yours,

ALEX J. ARMIJO  
COMMISSIONER OF PUBLIC LANDS

BY:

FLOYD O. PRANDO, Assistant Director  
Oil and Gas Division  
AC 505-827-2748

AJA/FOP/s  
encls.  
cc:

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



OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

December 8, 1980

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

Attention: D. N. Canfield

Re: Case No. 159  
Lindrith Unit  
1981 Drilling Program

Gentlemen:

We hereby approve the 1981 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.

Yours very truly,

JOE D. RAMEY  
Director

JDR/EP/fd  
enc.

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

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**El Paso** NATURAL GAS  
COMPANY

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

November 7, 1980

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: Lindrith Unit I Section No. 713  
Rio Arriba County, New Mexico  
1981 Drilling Program

Gentlemen:

By letter dated January 7, 1980, El Paso Natural Gas Company, as Unit Operator of the Lindrith Unit, filed a Drilling Program covering the subject Unit for the calendar year 1980 providing for the drilling of four (4) Pictured Cliffs wells (#100, #101, #102, #103). All four (4) wells were timely drilled. All four (4) wells were drilled outside the Pictured Cliffs Participating Area and are currently being tested to determine whether each will be commercial, thereby causing an expansion.

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

Pictured Cliffs (Gas)	84
Pictured Cliffs (Non-commercial)	5
Pictured Cliffs, Being Evaluated	4
Dakota	1
Gallup	1
Plugged and Abandoned	12
	107

RECEIVED  
DEC 01 1980  
OIL CONSERVATION DIVISION  
SANTA FE

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 1981.

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

<u>Well</u>	<u>Drilling Block</u>	<u>Formation</u>
#104	SE/4 Section 18-24N-2W	Pictured Cliffs
#105	SW/4 Section 2-24N-3W	Pictured Cliffs
#106	NE/4 Section 3-24N-3W	Pictured Cliffs
#107	SW/4 Section 22-24N-3W	Pictured Cliffs

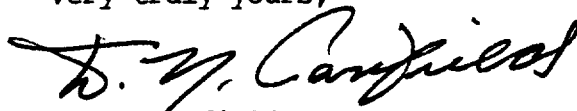
All working interest owners have been contacted, and this Drilling Program reflects their desires. El Paso Natural Gas Company, as Unit Operator, and the working interest owners believe that all current obligations have been satisfied.

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.

Copies of this letter are being sent to the working interest owners as shown below.

Very truly yours,

  
D. N. Canfield *or*  
Attorney-In-Fact

DNC/JL/ee  
Attachments  
Lindrith Unit, 3.0

LINDRITH UNIT  
WORKING INTEREST OWNERS

Conoco, Inc.

Mobil Oil Corporation (3)

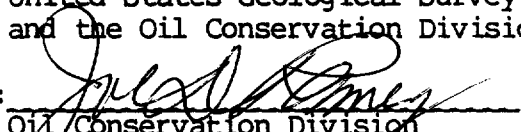
Tenneco Oil Company

Approved: \_\_\_\_\_  
Regional Oil & Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
Commissioner of Public Lands and  
the Oil Conservation Division

DATE: \_\_\_\_\_

Approved: \_\_\_\_\_  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Division

DATE: \_\_\_\_\_

Approved:  \_\_\_\_\_  
Oil Conservation Division  
Subject to like approval by the  
United States Geological Survey  
and the Commissioner of Public Lands

DATE: 12/8/80

The foregoing approvals for the 1981 Drilling Program for the Lindrith Unit I,  
Section No. 713, Rio Arriba County, New Mexico.

# State of New Mexico

159



## Commissioner of Public Lands

December 2, 1980

ALEX J. ARMIJO  
COMMISSIONER

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

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

Re: Lindrith Unit  
Rio Arriba County, New Mexico  
1981 Drilling Program

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1981 Drilling Program for the Lindrith Unit, Rio Arriba County, New Mexico. Such program proposes the drilling of wells No. 104, 105, 106, and 107. Our approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Division.

Enclosed is one approved copy for your files.

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

Very truly yours,

ALEX J. ARMIJO  
COMMISSIONER OF PUBLIC LANDS

BY:

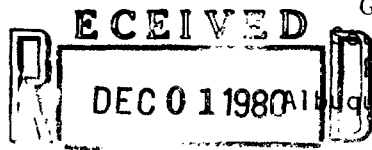
FLOYD O. PRANDO, Assistant Director  
Oil and Gas Division  
AC 505-827-2748

AJA/FOP/s  
encls.  
cc:

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



# United States Department of the Interior



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

OIL CONSERVATION DIVISION  
SANTA FE

NOV 28 1980

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

Gentlemen:

On this date, your revised 1980 plan of development and operation for the Lindrith unit area, Rio Arriba County, New Mexico, wherein you proposed drilling wells No. 11 and 15 to test the Chacon and Dakota formations was approved. Such approval is subject to like approval by the appropriate State officials. One approved copy is enclosed.

Sincerely yours,

(Typed name, illegible)

FOR

Gene F. Daniel  
Acting Deputy Conservation  
Manager, Oil and Gas

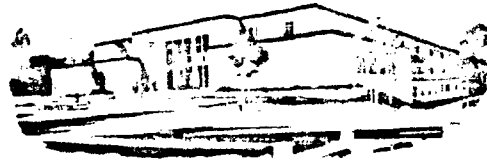
Enclosure

NMOCD, Santa Fe (ltr only)

# State of New Mexico



ALEX J. ARMIJO  
COMMISSIONER



## Commissioner of Public Lands

November 17, 1980

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

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

159

Re: Revised Plan of Development  
LINDRITH UNIT AREA  
Chacon-Dakota Formation  
Rio Arriba County, New Mexico

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved the Revised Plan of Development for the Lindrith unit area, Rio Arriba County, New Mexico, proposing the drilling of the original eight (8) wells plus two additional wells. Our approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Division.

Enclosed is one approved copy for your files.

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

Very truly yours,

ALEX J. ARMIJO  
COMMISSIONER OF PUBLIC LANDS

BY:

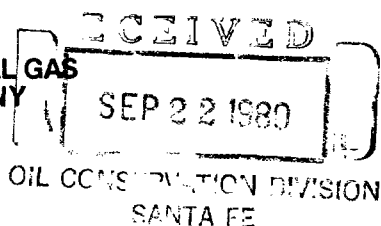
FLOYD O. PRANDO, Assistant  
Director-Oil & Gas Division  
AC 505-827-2748

AJA/FOP/s  
encls.  
cc:

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



**El Paso** NATURAL GAS  
COMPANY



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

September 15, 1980

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

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: Lindrith Unit I Section No. 713  
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	February 4, 1980
Commissioner of Public Lands	January 14, 1980
Oil Conservation Division	February 20, 1980

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

Very truly yours,

*Jim Leon*

Jim Leon  
Landman  
Land Department

JL/en  
Lindrith Unit, 3.0

LINDRITH UNIT  
WORKING INTEREST OWNERS

Conoco, Inc.

Mobil Oil Corporation (3)

Tenneco Oil Company



# United States Department of the Interior

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

JUN 05 1980

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

#159

Gentlemen:

Your application of February 19, 1980, requesting approval of the twenty-fourth revision of the Pictured Cliffs participating area for the Lindrith Unit Agreement, Rio Arriba County, New Mexico, was approved on this date, effective January 1, 1979.

The twenty-fourth revision adds 640 acres to the participating area, described as: SE $\frac{1}{4}$  section 36 and NE $\frac{1}{4}$  section 10, T. 24 N., R. 3 W., N.M.P.M.; NE $\frac{1}{4}$  section 18 and SE $\frac{1}{4}$  section 29, T. 24 N., R. 2 W., N.M.P.M. With these revisions, the Pictured Cliffs participating area is enlarged to 12,896 acres.

The revisions are based upon the information obtained by the completion of unit wells Nos. 84, 93, 94, and 95, located in the SE $\frac{1}{4}$  section 36, T. 24 N., R. 3 W.; SE $\frac{1}{4}$  section 29, T. 24 N., R. 2 W.; NE $\frac{1}{4}$  section 18, T. 24 N., R. 2 W.; and the NE $\frac{1}{4}$  section 10, T. 24 N., R. 3 W., respectively. Copies of the approved application are being distributed to the appropriate Federal offices and three approved copies are enclosed. You are requested to furnish the State of New Mexico and all other interested parties with appropriate evidence of this approval.

Sincerely yours,

(ORIGINAL) GENE F. DANIEL

Gene F. Daniel  
Acting Deputy Conservation Manager  
Oil and Gas

Enclosures 3

cc:  
NMOCD, Santa Fe

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

April 2, 1980

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

Attention: D. N. Canfield

Re: Case No. 159  
Lindrith "B" Unit  
1980 Plan of Development

Gentlemen:

We hereby approve the 1980 Plan of Development for the Lindrith "B" 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 Plan of Development is returned herewith.

Yours very truly,

JOE D. RAMEY  
Director

JDR/EP/fd  
enc.

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

C  
O  
P  
Y

**El Paso** NATURAL GAS  
COMPANY

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

February 20, 1980

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: 1980 Plan of Development  
Lindrith "B" Unit  
Chacon-Dakota Formation  
Rio Arriba County, New Mexico

Gentlemen:

By Designation of Sub-Operator dated May 7, 1979, El Paso Natural Gas Company et al designated Mobil Oil Corporation as operator of the Lindrith Unit for all formations below the base of the Pictured Cliffs formation (except as to the Dakota Formation in the W/2 of Section 34, Township 24 North, Range 3 West).

El Paso Natural Gas Company, as operator of the Lindrith Unit on behalf of and at the request of Mobil Producing Texas & New Mexico, Inc., successor to Mobil Oil Corporation as sub-operator of the Lindrith Unit, respectfully submits for your approval the 1980 Plan of Development for the Chacon-Dakota Formation, designated as the Lindrith "B" Unit.

As noted on the attached plat, a total of eight Chacon-Dakota wells are planned for 1980; two wells each being proposed for Sections 21, 27, 28 and 34. All working interest owners have been contacted and this Drilling Program reflects their desires.

This Plan of Development for the year 1980 may be modified or supplemented with the approval of the Supervisor and the Commissioner of Public Lands when necessary to meet changed conditions or to protect the interests of all parties to the Unit Agreement.

159  
OK for  
approval  
1/10/80  
2/11

Regulatory Agencies  
February 20, 1980  
Page two

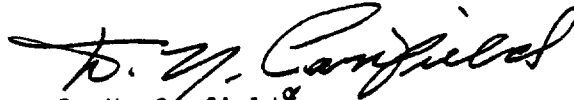
Two wells were drilled to the Chacon-Dakota Formation during 1979. The Lindrith "B" Unit No. 1, located in the NW/4 of Section 28, Township 24 North, Range 3 West, is now being completed as an oil well, flowing some 76 B0 and 60 BLW. The Lindrith "B" Unit No. 2 in the SW/4 of Section 28 has been drilled and will be completed soon.

This Drilling Program is a supplement to the 1980 Drilling Program filed by El Paso Natural Gas Company on January 7, 1980 which has heretofore been approved by the Regulatory Agencies.

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.

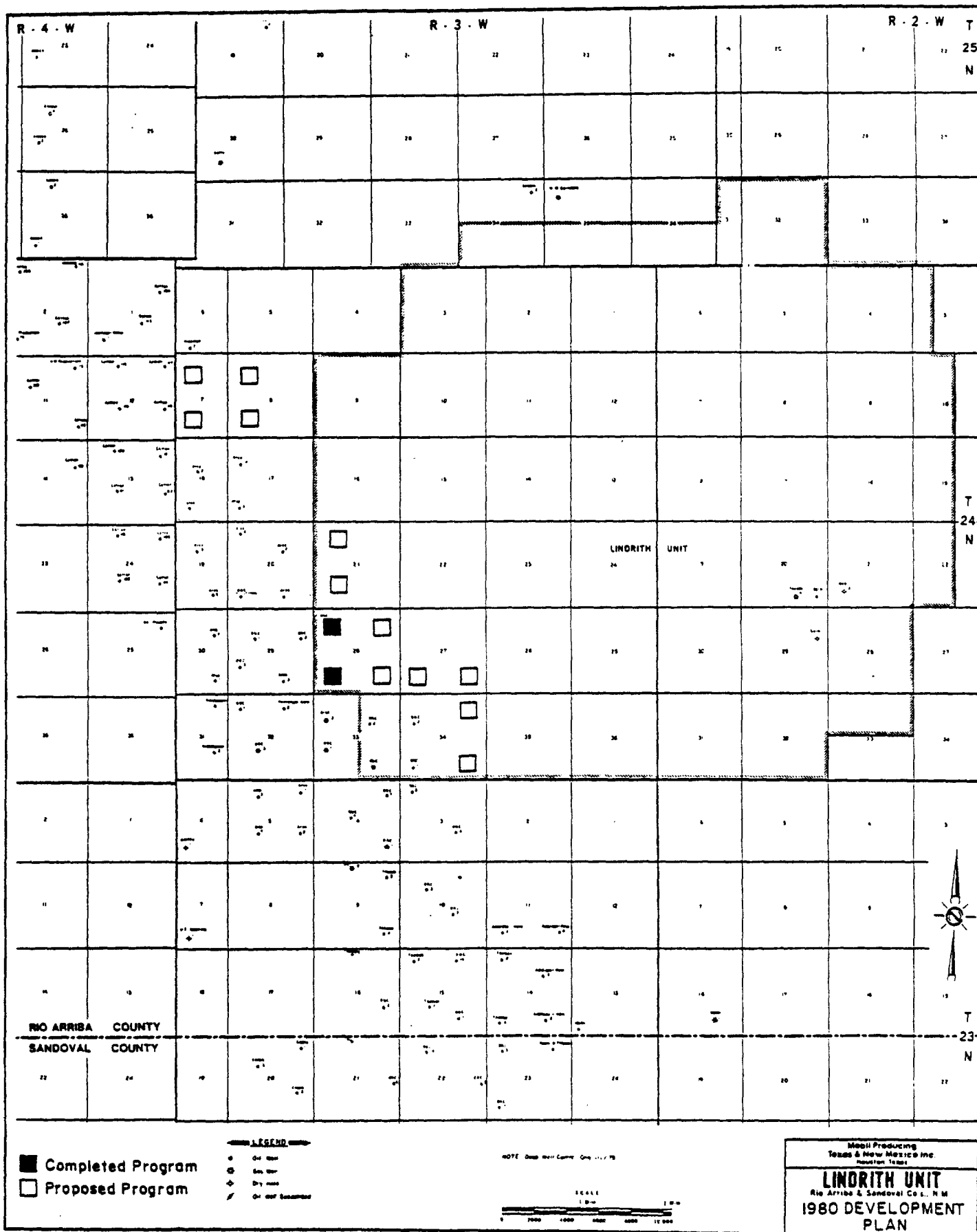
Copies of this letter are being sent to the working interest owners as shown below.

Very truly yours,

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

D. N. Canfield  
Attorney-in-Fact

DNC:JRP:pw  
Attachments  
Lindrith Unit, 3.0



APPROVED:

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

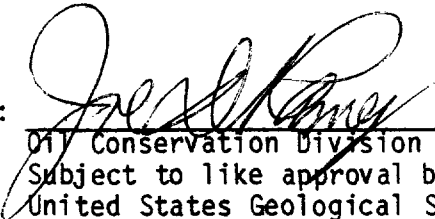
DATE:

APPROVED:

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

DATE:

APPROVED:

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

DATE:

4/3/80

The foregoing approvals are for the 1980 Drilling Program for the Lindrith Unit 1, Section No. 713, Rio Arriba County, New Mexico.



LINDRITH UNIT  
WORKING INTEREST OWNERS

Conoco, Inc.

Mobil Oil Corporation (3)

Tenneco Oil Company

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

April 2, 1980

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

Attention: James R. Permenter

Re: Case No. 159  
Lindrith Unit  
Twenty-Fourth Expanded  
Participating Area for  
the Pictured Cliffs  
Formation

Gentlemen:

We hereby approve the Twenty-Fourth 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 Commissioner of Public Lands.

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

Yours very truly,

JOE D. RAMEY  
Director

JDR/EP/fd  
enc.

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

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P  
Y

**El Paso** NATURAL GAS  
COMPANY

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

February 19, 1980

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

159  
OK to  
original  
4/4/80 4/11/80  
2/p

Re: Lindrith Unit Agreement, I Section  
No. 713, Rio Arriba County, New Mexico  
REQUEST FOR APPROVAL OF THE TWENTY-  
FOURTH EXPANDED PARTICIPATING AREA,  
Pictured Cliffs Formation  
Effective January 1, 1979

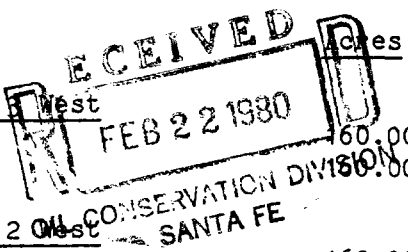
Gentlemen:

Pursuant to Section 10 of the Lindrith Unit Agreement, El Paso Natural Gas Company, as Unit Operator, submits for your approval the Twenty-Fourth 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 lands reasonably estimated to be productive in paying quantities from the Pictured Cliffs Formation.

Twenty-Fourth Expanded Participating Area - Effective January 1, 1979

Description of Lands

Township 24 North, Range 5 West	
Section 36: SE/4	160.00
Section 10: NE/4	160.00
Township 24 North, Range 2 West	
Section 18: NE/4	160.00
Section 29: SE/4	160.00



The lands described above are proven productive by the following:

The Lindrith Unit #84 Well, located 1610' from the South line and 810' from the East line of Section 36, Township 24 North, Range 3 West, N.M.P.M., was spudded on September 9, 1978, and completed on December 27, 1978, at a total depth of 3190'. The Pictured Cliffs Formation at the intervals of 3075', 3078', 3082', 3092', 3097', 3102', 3107', 3116', 3120', 3124' was treated with a sand-water fracturing process on November 8, 1978. The well was shut-in on December 20, 1978, and after being shut-in for seven (7) days, the Pictured Cliffs Formation was tested on December 27, 1978, using the Pitot tube method with an after frac guage of 393 MCF/D, with an SIPC of 994 psia. The spacing unit for this well is described as the SE/4 of Section 36, Township 24 North, Range 3 West, N.M.P.M., containing 160.00 acres.

The Lindrith Unit #95 Well, located 1700' from the North line and 1800' from the East line of Section 10, Township 24 North, Range 3 West, N.M.P.M., was spudded on October 5, 1978, and completed on December 14, 1978, at a total depth of 3270'. The Pictured Cliffs Formation at the intervals of 3165', 3172', 3176', 3204', 3208', 3212', 3222', 3226', 3230' was treated with a sand-water fracturing process on October 27, 1978. The well was shut-in on November 7, 1978, and after being shut-in for thirty seven (37) days, the Pictured Cliffs Formation was tested on December 14, 1978, using the Pitot tube method with an after frac guage of 2326 MCF/D, with an SIPC of 1017 psia. The spacing unit for this well is described as the NE/4 of Section 10, Township 24 North, Range 3 West, N.M.P.M., containing 160.00 acres.

The Lindrith Unit Com #93 Well, located 1460' from the South line and 1790' from the East line of Section 29, Township 24 North, Range 2 West, N.M.P.M., was spudded on October 27, 1978, and completed on December 27, 1978, at a total depth of 3081'. The Pictured Cliffs Formation at the intervals of 2954', 2961', 2965', 2978', 2981', 2987', 2996', 3002', 3018' was treated with a sand-water fracturing process on November 8, 1978. The well was shut-in on December 20, 1978 and after being shut-in for seven (7) days, the Pictured Cliffs Formation was tested on December 27, 1978, using the Pitot tube method with an after frac guage of 916 MCF/D, with an SIPC of 979 psia. The spacing unit for this well is described as the SE/4 of Section 29, Township 24 North, Range 2 West, N.M.P.M., containing 160.00 acres.

The Lindrith Unit #94 Well, located 1560' from the North line and 1780' from the East line of Section 18, Township 24 North, Range 2 West, N.M.P.M., was spudded on September 27, 1978, and completed on December 14, 1978, at a total depth of 3321'. The Pictured Cliffs Formation at the intervals of 3138', 3144', 3147', 3170', 3174', 3178', 3204', 3206', 3228', 3232', 3236', 3249', 3255' was treated with a sand-water fracturing process on October 27, 1978. The well

SCHEDULE XXV  
TWENTY-FOURTH EXPANDED PARTICIPATING AREA FOR THE PICTURED CLIFFS FORMATION  
LINDRITH UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078908	<u>T-24-N, R-2-W</u> Sec. 18: Lots 1, 2, 4, E/2 NW/4, SE/4 SW/4	227.88	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%	1.800478%
			TOTAL			
			<u>TRACT 2</u>			
SF 078909	<u>T-24-N, R-2-W</u> Sec. 19: Lots 3, 4, E/2 SW/4, SE/4 Sec. 20: All Sec. 21: S/2 Sec. 30: Lots 1, 2, E/2 NW/4, NE/4	1664.29	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%	13.149540
			TOTAL			
			<u>TRACT 3</u>			
SF 078910	<u>T-24-N, R-3-W</u> Sec. 24: E/2 SE/4	2296.53	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%	18.144863
			TOTAL			
			<u>TRACT 4</u>			
			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%	
			TOTAL			

SCHEDULE XXV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 6</u>						
SF 078912	<u>T-24-N, R-3-W</u>	2240.00				17.698220
	Sec. 10: S/2, NE/4		Royalty;	12.50%	12.50%	
	Sec. 11: E/2, E/2 SW/4		Working Interest;			
	Sec. 12: SW/4, NW/4 NW/4,		El Paso Natural Gas Co.;	75.00%	75.00%	
	S/2 SE/4, NW/4		ORRI;	<u>12.50%</u>	<u>12.50%</u>	
	SE/4			<u>100.00%</u>	<u>100.00%</u>	
	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					
<u>TRACT 7</u>						
SF 078913	<u>T-24-N, R-3-W</u>	2080.00				16.434061
	Sec. 15: All		Royalty;	12.50%	12.50%	
	Sec. 16: All		Working Interest;			
	Sec. 21: W/2, NE/4		El Paso Natural Gas Co.;	75.00%	75.00%	
	Sec. 22: N/2		ORRI;	<u>12.50%</u>	<u>12.50%</u>	
				<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 8</u>						
SF 078914	<u>T-24-N, R-3-W</u>	640.00				5.056634
	Sec. 25: All		Royalty;	12.50%	12.50%	
			Working Interest;			
			El Paso Natural Gas Co.;	75.00%	75.00%	
			ORRI;	<u>12.50%</u>	<u>12.50%</u>	
				<u>100.00%</u>	<u>100.00%</u>	
<u>TOTAL</u>						

Effective January 1, 1979

SCHEDULE XXV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 9						
SF 078915	T-24-N, R-3-W Sec. 23: NW/4, E/2 Sec. 36: E/2	800.00	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%	6.320793%
TOTAL						
TRACT 13						
Patented	T-24-N, R-2-W Sec. 29: NW/4, SW/4 *Undivided 240.00 net acres committed	*320.00	Royalty; Working Interest; El Paso Natural Gas Co.; Felmont Oil Co.; ORRI;	9.375% 56.250% 25.000% 9.375% 100.000%	6.250% 56.250% .000% 9.375% 71.875%	1.896238%
TOTAL						
TRACT 13-B						
Patented	T-24-N, R-2-W Sec. 28: S/2 NW/4, SW/4 Sec. 29: E/2 SE/4 *Undivided 160.00 net acres committed	*320.00	Royalty; Working Interest; El Paso Natural Gas Co.; Felmont Oil Co.; Jane P. Guild; M. Dodge; Wilb & Co.; C. W. Gillette; James S. Gardner, Augustus P. Loring, III ORRI;	6.250% 37.500% 12.500% .625% .312% 25.000% 6.250% 4.688% .625% 6.250% 100.000%	6.250% 37.500% .000% .000% .000% .000% .000% .000% .000% 6.250% 50.000%	1.264159%
TOTAL						

Effective January 1, 1979

SCHEDULE XXV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Patented	T-24-N, R-2-W Sec. 18: Lot 3, NE/4 SW/4, NE/4	235.96	TRACT 10			
			Royalty;	12.50%	12.50%	1.864318%
			Working Interest;			
			El Paso Natural Gas Co.;	75.00%	75.00%	
			ORRI;	12.50%	12.50%	
			TOTAL	100.00%	100.00%	
			TRACT 17			
			Royalty;	12.50%	12.50%	
			Working Interest;			
			El Paso Natural Gas Co.;	75.00%	75.00%	
Patented	T-24-N, R-3-W Sec. 9: All	640.00	TRACT 18			
			Royalty;	12.50%	6.25%	2.464951%
			Working Interest;			
			El Paso Natural Gas Co.;	75.00%	75.00%	
			ORRI;	12.50%	12.50%	
			TOTAL	100.00%	93.75%	
			TRACT 19			
			Royalty;	12.50%	12.50%	
			Working Interest;			
			El Paso Natural Gas Co.;	75.00%	75.00%	
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	TRACT 19			
			Royalty;	12.50%	12.50%	2.528317%
			Working Interest;			
			El Paso Natural Gas Co.;	75.00%	75.00%	
			ORRI;	12.50%	12.50%	
			TOTAL	100.00%	100.00%	

Effective January 1, 1979



SCHEDULE XXV

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 22						
Patented	<u>I-24-N, R-2-W</u> Sec. 9: NW/4	160.00	Royalty: Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%  81.25% <u>6.25%</u> 100.00%	12.50%  81.25% <u>6.25%</u> 100.00%	1.264159%
TRACT 24						
Patented	<u>I-24-N, R-3-W</u> Sec. 14: NW/4, N/2 SW/4 Sec. 11: W/2 SW/4	320.00	*Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%  75.00% <u>12.50%</u> 100.00%	00.00%  75.00% <u>00.00%</u> 87.00%	2.528317%
TRACT 25						
Patented	<u>I-24-N, R-2-W</u> Sec. 21: NW/4	160.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%  75.00% <u>12.50%</u> 100.00%	3.125%  75.000% <u>12.500%</u> 90.625%	1.264159%
TRACT 27						
Patented	<u>I-24-N, R-3-W</u> Sec. 12: NE/4 SE/4, S/2 NW/4, NE/4 NW/4	160.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%  75.00% <u>12.50%</u> 100.00%	12.50%  75.00% <u>12.50%</u> 100.00%	1.264159%

\*Royalty interest not committed to Lindrith Unit.

SCHEDULE XXV

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

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), NE/4  
 Section 19: All  
 Section 20: All  
 Section 21: W/2, SE/4  
 Section 28: All  
 Section 29: All  
 Section 30: All  
 Section 31: All  
 Section 32: SE/4, W/2

Township 24 North, Range 3 West, N.M.P.M.

Section 9: All  
 Section 10: S/2, NE/4  
 Section 11: E/2, SW/4  
 Section 12: SE/4, W/2  
 Section 13: All  
 Section 14: All  
 Section 15: All  
 Section 16: All  
 Section 21: W/2, NE/4  
 Section 22: N/2  
 Section 23: N/2, SE/4  
 Section 24: All  
 Section 25: All  
 Section 36: E/2

Total Number of Acres in Participating Area: 12,656.64

EXHIBIT "B"

GEOLOGICAL REPORT CONCERNING

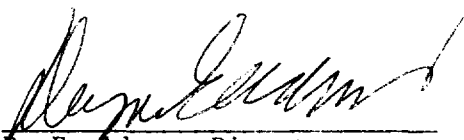
THE TWENTY-FOURTH EXPANSION

OF THE PICTURED CLIFFS FORMATION IN THE

EL PASO NATURAL GAS COMPANY

LINDRITH UNIT

EL PASO NATURAL GAS COMPANY

By:   
D. E. Adams, Director  
Reservoir Engineering Dept.

## EXHIBIT "B"

### GEOLOGICAL SUMMARY PERTAINING TO THE TWENTY-FOURTH 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.

#### TWENTY-FOURTH EXPANSION

Effective Date: January 1, 1979

#### Participating Acreage:

NE/4 Section 10	T-24-N, R-3-W	Lindrith No. 95
NE/4 Section 18	T-24-N, R-2-W	Lindrith No. 94
SE/4 Section 29	T-24-N, R-2-W	Lindrith No. 93
SE/4 Section 36	T-24-N, R-3-W	Lindrith No. 84

The Lindrith No. 95 and No. 94 wells were both tested on December 14, 1978 for initial wellhead shut-in pressures of 1,017 psia and 1,027 psia, respectively, and after frac flow gauges of 2,326 Mcf/D and 1,374 Mcf/D, respectively. On the basis of these tests, the related acreages are proven commercial and should be admitted to the Participating Area.

The Lindrith No. 93 and No. 84 wells were both tested on December 27, 1978 for initial wellhead shut-in pressures of 979 psia and 994 psia, respectively, and after frac flow gauges of 916 Mcf/D and 393 Mcf/D, respectively. The Lindrith No. 93 well was first delivered into the gathering system on June 21, 1979 and after 149 days on production, had an average rate of 119 Mcf/D. The Lindrith No. 84 well was first delivered into the gathering system on March 14, 1979 and after 254 days on production, had an average rate of 59 Mcf/D. Utilizing stabilized deliverabilities, both wells have been determined to be commercial for unit purposes.

The proposed Unit Expansion 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 average net pay of greater than or equal to 10 feet.

was shut-in on November 7, 1978, and after being shut-in for thirty seven (37) days, the Pictured Cliffs Formation was tested on December 14, 1978, using the Pitot tube method with an after frac gauge of 1374 MCF/D, with an SIPC of 1027 psia. The spacing unit for this well is described as the NE/4 of Section 18, Township 24 North, Range 2 West, N.M.P.M., containing 160.00 acres.

The effective date for the Twenty-Fourth Expanded Participating Area is determined as January 1, 1979, the first day of the month following the testing of the above referenced wells.

Attached hereto is Schedule XXV showing the Twenty-Fourth 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 varied ownership in said tract.

Attached also in support of this Expansion are the following Exhibits which are made a part hereof.

Exhibit "A"

Ownership map reflecting the boundaries of the Lindrith Unit and the proposed Twenty-Fourth Expanded Participating Area, Pictured Cliffs Formation

Exhibit "B"

Geological Report on the Twenty-Fourth Expanded Participating Area, Pictured Cliffs Formation

Exhibit "C"


Structural contour and Isopach map

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

Regional Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Division  
Page Four

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

Very truly yours,

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

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

JRP/DCH/sfg  
Enclosures  
Lindrith Unit 4.1

cc: Tenneco Oil Company  
Conoco, Inc.  
Mobil Oil Company

APPROVED:

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

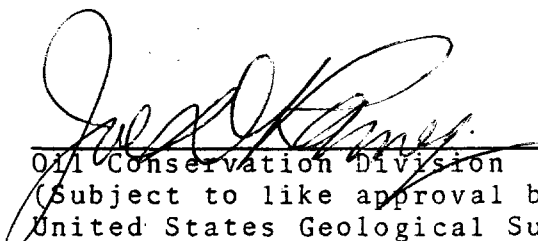
DATED: \_\_\_\_\_

APPROVED:

Commissioner of Public Lands  
(Subject to like approval by the  
United States Geological Survey  
& the Oil Conservation Division)

DATED: \_\_\_\_\_

APPROVED:

  
Oil Conservation Division  
(Subject to like approval by the  
United States Geological Survey  
& the Commissioner of Public Lands)

DATED: 4/3/80

The foregoing approvals are for the Twenty-Fourth Expanded Participating Area for the Pictured Cliffs Formation, effective January 1, 1979, under the Lindrith Unit Area I, Section No. 713, Rio Arriba County, New Mexico.