

SCHEDULE XX
 NINETEENTH EXPANDED PARTICIPATING AREA FOR THE GALLUP FORMATION
 HUERFANO UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION			
			OWNERSHIP	PERCENTAGE				
SF 078022	T-27-N, R-10-W Sec. 19: Lots 1, 2, 3, 4 E/2 W/2	334.08	TRACT 4, 4-A		3.416429%			
			Royalty	12.500000%		12.500000%		
			Working Interest:					
			El Paso Natural Gas Co.	42.708366%		42.708366%		
			Hudson Pool	.748790%		.748790%		
			Kelly, et al (1)	1.144500%		1.144500%		
			Amoco Production Co.	29.697500%		29.697500%		
			ORRI	13.200844%		13.200844%		
			TOTAL	100.000000%		100.000000%		
			TRACT 7					
SF 080810	T-27-N, R-10-W Sec. 29: SE/4	160.00	TRACT 7		1.636221%			
			Royalty	12.500000%		12.500000%		
			Working Interest:					
			El Paso Natural Gas Co.	35.150308%		35.150308%		
			Vincent B. Hamilton	13.125000%		13.125000%		
			Amoco Production Co.	29.697500%		29.697500%		
			ORRI	13.200844%		13.200844%		
			TOTAL	100.000000%		100.000000%		
			TRACT 11					
			SF 078233	T-27-N, R-10-W Sec. 33: NW/4		160.00	TRACT 11	
Royalty	12.500000%	12.500000%						
Working Interest:								
El Paso Natural Gas Co.	44.682574%	44.682574%						
Kelly, et al (1)	2.749775%	2.749775%						
Amoco Production Co.	29.697500%	29.697500%						
ORRI	10.370151%	10.370151%						
TOTAL	100.000000%	100.000000%						

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SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE	
				PERCENTAGE COMMITTED	
SF 078354	T-27-N, R-10-W Sec. 33: S/2 SE/4	80.00	TRACT 12		
			Royalty	12.500000%	12.500000%
			Working Interest:		
			Crown Central Pet. Corp.	87.500000%	87.500000%
			ORRI	0.000000%	0.000000%
			TOTAL	100.000000%	100.000000%
					.818110%
NM 02516	T-27-N, R-10-W Sec. 33: SW/4, N/2 SE/4	240.00	TRACT 13		
			Royalty	12.500000%	12.500000%
			Working Interest:		
			El Paso Natural Gas Co.	38.248980%	38.248980%
			Kelly, et al (1)	2.749775%	2.749775%
			Amoco Production Co.	29.697500%	29.697500%
			ORRI	16.803745%	16.803745%
			TOTAL	100.000000%	100.000000%
					2.454331%
SF 077950	T-27-N, R-10-W Sec. 33: NE/4 Sec. 35: N/2 SW/4, NW/4	400.00	TRACT 14, 14-A		
			Royalty	12.500000%	12.500000%
			Working Interest:		
			El Paso Natural Gas Co.	22.456014%	22.456014%
			El Paso Natural Gas Co. (Gas only)	21.375000%	21.375000%
			& Atlantic Richfield Co. (Oil only)	21.625000%	21.625000%
			Tenneco and Conoco	14.348750%	14.348750%
			Amoco Production Co.	7.695236%	7.695236%
			ORRI	100.000000%	100.000000%
			TOTAL	100.000000%	100.000000%
					4.090553%

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION				
			OWNERSHIP	PERCENTAGE					
SF 081087	T-27-N, R-10-W Sec. 34: A11	640.00	TRACT 15		0.000000%				
			Royalty	12.500000%					
			Working Interest: W. R. Weaver	85.000000%					
			ORRI	2.500000%					
			TOTAL	100.000000%	0.000000%				
					0.000000%				
SF 079917	T-27-N, R-10-W Sec. 35: SE/4, S/2 SW/4	240.00	TRACT 16		12.500000%				
			Royalty	12.500000%					
			Working Interest: El Paso Natural Gas Co. Kelly, et al (1) Hudson Pool (2) Amoco Production Co. ORRI	42.972861%					
				2.749775%					
				1.860913%					
				29.697500%					
				10.218951%					
			TOTAL	100.000000%					
								2.454331%	
			NM 03017	T-26-N, R-9-W Sec. 6: Lots 1,2,3, 4,5,6,7, E/2 SW/4, SE/4 NW/4, S/2 NE/4, SE/4 (A11)		2086.72	TRACT 18		12.500000%
Royalty	12.500000%								
Working Interest: El Paso Natural Gas Co. Amoco Production Co. ORRI	47.208902%								
	27.197500%								
	13.093598%								
	100.000000%								
TOTAL	100.000000%								
					21.339595%				
T-27-N, R-10-W Sec. 36: Lots 1,2,3,4, W/2 E/2									

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SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE	
				PERCENTAGE COMMITTED	
NM 01051	T-27-N, R-9-W Sec. 31: E/2	320.00	TRACT 19		
	Royalty		12.500000%	12.500000%	<u>3.272442%</u>
	Working Interest:				
	EI Paso Natural Gas Co., et al (1) (2)		44.499861%	44.499861%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		13.302639%	13.302639%	
	TOTAL		100.000000%	100.000000%	
					<u>409055%</u>
SF 078007	T-26-N, R-9-W Sec. 18: NW/4 SE/4	40.00	TRACT 20		
	Royalty		12.500000%	12.500000%	<u>3.271113%</u>
	Working Interest:				
	EI Paso Natural Gas Co.		47.208902%	47.208902%	
	Amoco Production Co.		27.197500%	27.197500%	
	ORRI		13.093598%	13.093598%	
	TOTAL		100.000000%	100.000000%	
					<u>409055%</u>
SF 077936-A	T-26-N, R-10-W Sec. 1: Lots 1,2, S/2 NE/4, SE/4	319.87	TRACT 21-A		
	Royalty		12.500000%	12.500000%	<u>3.271113%</u>
	Working Interest:				
	EI Paso Natural Gas Co.		42.972861%	42.972861%	
	Kelly, et al (1)		2.749775%	2.749775%	
	Hudson Pool (2)		1.860913%	1.860913%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		10.218951%	10.218951%	
	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 078014	T-26-N, R-10-W Sec. 1: SW/4	160.00				
			TRACT 22			
	Royalty Interest:		12.500000%	12.500000%		
	El Paso Natural Gas Co.		42.972861%	42.972861%		
	Kelly, et al (1)		2.749775%	2.749775%		
	Hudson Pool (2)		1.860913%	1.860913%		
	Amoco Production Co.		29.697500%	29.697500%		
	ORRI		10.218951%	10.218951%		
	TOTAL		100.000000%	100.000000%		1.636221%
SF 077961	T-26-N, R-10-W Sec. 1: Lot 4, S/2 NW/4	119.77				
			TRACT 23			
	Royalty Interest:		12.500000%	12.500000%		
	Working Interest:					
	El Paso Natural Gas Co.		42.972861%	42.972861%		
	Kelly, et al (1)		2.749775%	2.749775%		
	Hudson Pool (2)		1.860913%	1.860913%		
	Amoco Production Co.		29.697500%	29.697500%		
	ORRI		10.218951%	10.218951%		
	TOTAL		100.000000%	100.000000%		1.224814%
SF 078001-B	T-26-N, R-10-W Sec. 1: Lot 3	39.84				
			TRACT 24-B			
	Royalty Interest:		12.500000%	12.500000%		
	Working Interest:					
	El Paso Natural Gas Co.		42.972861%	42.972861%		
	Kelly, et al (1)		2.749775%	2.749775%		
	Hudson Pool (2)		1.860913%	1.860913%		
	Amoco Production Co.		29.697500%	29.697500%		
	ORRI		10.218951%	10.218951%		
	TOTAL		100.000000%	100.000000%		.407419%

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION	
			OWNERSHIP	PERCENTAGE		
SF 078267	T-26-N, R-10-W Sec. 3: Lots 3, 4, S/2 NW/4	159.25	TRACT 25		1.628551%	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			El Paso Natural Gas Company	49.972861%		49.972861%
			Kelly, et al (1)	2.749775%		2.749775%
			Hudson Pool (2)	1.860913%		1.860913%
			Amoco Production Co.	29.697500%		29.697500%
			ORRI	10.218951%		10.218951%
			TOTAL	100.000000%		100.000000%
			TRACT 25-A			
SF 078267-A	T-26-N, R-10-W Sec. 3: Lots 1, 2 S/2 NE/4	159.11	TRACT 25-A		1.627119%	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			El Paso Natural Gas Company	42.972861%		42.972861%
			Kelly, et al (1)	2.749775%		2.749775%
			Hudson Pool (2)	1.860913%		1.860913%
			Amoco Production Co.	29.697500%		29.697500%
			ORRI	10.218951%		10.218951%
			TOTAL	100.000000%		100.000000%
			TRACT 27			
NM 0396	T-26-N, R-10-W Sec. 4: Lots 1, 2, S/2 NE/4	159.65	TRACT 27		1.632642%	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			El Paso Natural Gas Co.	42.708366%		42.708366%
			Kelly, et al (1)	1.144500%		1.144500%
			Hudson Pool (2)	.748790%		.748790%
			Amoco Production Co.	29.697500%		29.697500%
			ORRI	13.200844%		13.200844%
			TOTAL	100.000000%		100.000000%

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE	
SF 077806	T-26-N, R-10-W Sec. 12: SW/4	160.00	TRACT 42		3.272442%
			Royalty	12.500000%	
			Working Interest:		
			El Paso Natural Gas Co.	42.972861%	
			Kelly, et al (1)	2.749775%	
			Hudson Pool (2)	1.860913%	
			Amoco Production Co.	29.697500%	
			ORRI	10.218951%	
			TOTAL	100.000000%	
			TRACT 43		
Royalty	12.500000%				
Working Interest:					
El Paso Natural Gas Co.	42.972861%				
Kelly, et al (1)	2.749775%				
Hudson Pool (2)	1.860913%				
Amoco Production Co.	29.697500%				
ORRI	10.218951%				
TOTAL	100.000000%				
NM 01368	T-26-N, R-10-W Sec. 13: NW/4	160.00	TRACT 45		1.636221%
			Royalty	12.500000%	
			Working Interest:		
			El Paso Natural Gas Co.	42.972861%	
			Kelly, et al (1)	2.749775%	
			Hudson Pool (2)	1.860913%	
			Amoco Production Co.	29.697500%	
			ORRI	10.218951%	
			TOTAL	100.000000%	
			TRACT 46		
Royalty	12.500000%				
Working Interest:					
El Paso Natural Gas Co.	42.972861%				
Kelly, et al (1)	2.749775%				
Hudson Pool (2)	1.860913%				
Amoco Production Co.	29.697500%				
ORRI	10.218951%				
TOTAL	100.000000%				

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION		
			OWNERSHIP	PERCENTAGE			
TRACT 48-A							
NM 02874-A	T-26-N, R-10-W Sec. 17: SE/4, N/2 SW/4	240.00	Royalty Working Interest: El Paso Natural Gas Co. Amoco Production Co. ORRI	12.500000%	41.841714% 29.697500% 15.960786% 100.000000%	12.500000%	2.454331%
TOTAL							
					100.000000%		
TRACT 49							
SF 078012	T-26-N, R-10-W Sec. 17: NW/4, W/2 NE/4	240.00	Royalty Working Interest: El Paso Natural Gas Co. Kelly, et al (1) Hudson Pool (2) Amoco Production Co. ORRI	12.500000%	42.972861% 2.749775% 1.860913% 29.697500% 10.218951% 100.000000%	12.500000%	2.454332%
TOTAL							
					100.000000%		
TRACT 77							
SF 078000	T-26-N, R-9-W Sec. 9: W/2	320.00	Royalty Working Interest: Amoco Production Co. ORRI	12.500000%	85.000000% 2.500000% 100.000000%	12.500000%	3.272442%
TOTAL							
					100.000000%		

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION	
			OWNERSHIP	PERCENTAGE		
SF 077980	T-26-N, R-9-W Sec. 5: Lots 1, 2, S/2 NE/4	161.82	TRACT 80		<u>1.654833%</u>	
			Royalty	12.500000%		12.500000%
			Working Interest:	47.208902%		47.208902%
			El Paso Natural Gas Co.	27.197500%		27.197500%
			Amoco Production Co. ORRI	13.093598%		13.093598%
TOTAL			<u>100.000000%</u>	<u>100.000000%</u>		
			TRACT 80-A		<u>11.453547%</u>	
SF 077980-A	T-26-N, R-9-W Sec. 8: A11 Sec. 5: SE/4 Sec. 17: W/2	1120.00	TRACT 80-A		<u>11.453547%</u>	
			Royalty	12.500000%		12.500000%
			Working Interest:	47.208902%		47.208902%
			El Paso Natural Gas Co.	27.197500%		27.197500%
			Amoco Production Co. ORRI	13.093598%		13.093598%
TOTAL			<u>100.000000%</u>	<u>100.000000%</u>		
SF 077980	T-26-N, R-9-W Sec. 17: E/2	320.00	TRACT 80-B		<u>3.272442%</u>	
			Royalty	12.500000%		12.500000%
			Working Interest:	47.208902%		47.208902%
			El Paso Natural Gas Co.	27.197500%		27.197500%
			Amoco Production Co. ORRI	13.093598%		13.093598%
TOTAL			<u>100.000000%</u>	<u>100.000000%</u>		

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SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION	
			OWNERSHIP	PERCENTAGE		
SF 078000-A	T-26-N, R-9-W Sec. 18: S/2 SE/4, NE/4 SE/4	120.00	TRACT 81		1.227166%	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			El Paso Natural Gas Co.	47.208902%		47.208902%
			Amoco Production Co.	27.197500%		27.197500%
			ORRI	13.093598%		13.093598%
			TOTAL	100.000000%		100.000000%
NM 012736	T-26-N, R-9-W Sec. 22: N/2 N/2, SW/4 NW/4	200.00	TRACT 83		2.045276%	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			El Paso Natural Gas Co.	42.904688%		42.904688%
			Barbara Irene McConnell	14.917781%		14.917781%
			Barbara Ann M. Bruss	5.074075%		5.074075%
			O. J. Lilly	.361512%		.361512%
			J. W. McConnell, Jr.	.304444%		.304444%
			ORRI	23.937500%		23.937500%
			TOTAL	100.000000%		100.000000%
SF 078103	T-26-N, R-9-W Sec. 23: W/2	320.00	TRACT 85		3.272442%	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			El Paso Natural Gas Co.,	34.068457%		34.068457%
			et al (1) (2)	42.500000%		42.500000%
			Amoco Production Co.	10.931543%		10.931543%
			ORRI	100.000000%		100.000000%
			TOTAL	100.000000%		100.000000%

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION	
			OWNERSHIP	PERCENTAGE		
E-921-6	T-26-N, R-10-W Sec. 2: Lot 4, SE/4 NE/4	79.55	TRACT 96-A		.813509%	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			El Paso Natural Gas Co.	42.972861%		42.972861%
			Kelly, et al (1)	2.749775%		2.749775%
			Hudson Pool (2)	1.860913%		1.860913%
			Amoco Production Co.	29.697500%		29.697500%
			ORRI	10.218951%		10.218951%
			TOTAL	100.000000%		100.000000%
			B-8801-28	T-26-N, R-10-W Sec. 2: S/2 NW/4, NW/4 SW/4		120.00
Royalty	12.500000%	12.500000%				
Working Interest:						
El Paso Natural Gas Co.	42.972861%	42.972861%				
Kelly, et al (1)	2.749775%	2.749775%				
Hudson Pool (2)	1.860913%	1.860913%				
Amoco Production Co.	29.697500%	29.697500%				
ORRI	10.218951%	10.218951%				
TOTAL	100.000000%	100.000000%				
B-10815-9	T-26-N, R-10-W Sec. 2: NE/4 SW/4, NW/4 SE/4	80.00			TRACT 98-B	
			Royalty	12.500000%	12.500000%	
			Working Interest:			
			El Paso Natural Gas Co.	42.972861%	42.972861%	
			Kelly, et al (1)	2.749775%	2.749775%	
			Hudson Pool (2)	1.860913%	1.860913%	
			Amoco Production Co.	29.697500%	29.697500%	
			ORRI	10.218951%	10.218951%	
			TOTAL	100.000000%	100.000000%	

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE	
B-11356-17	T-26-N, R-10-W Sec. 2: Lots 2, 3	79.26			
			<u>TRACT 99</u>		
	Royalty		12.500000%	12.500000%	<u>.810543%</u>
	Working Interest:				
	EI Paso Natural Gas Co.		42.972861%	42.972861%	
	Kelly, et al (1)		2.749775%	2.749775%	
	Hudson Pool (2)		1.860913%	1.860913%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		10.218951%	10.218951%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
					<u>1.227166%</u>
B-9320-7	T-26-N, R-10-W Sec. 2: S/2 SW/4, SW/4 SE/4	120.00			
			<u>TRACT 100-A</u>		
	Royalty		12.500000%	12.500000%	<u>1.227166%</u>
	Working Interest:				
	EI Paso Natural Gas Co.		42.708366%	42.708366%	
	Kelly, et al (1)		1.144500%	1.144500%	
	Hudson Pool (2)		.748790%	.748790%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		13.200844%	13.200844%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
					<u>1.227166%</u>
B-11571-5	T-26-N, R-10-W Sec. 2: Lot 1	39.71			
			<u>TRACT 101</u>		
	Royalty		12.500000%	12.500000%	<u>.406090%</u>
	Working Interest:				
	Amoco Production Co.		82.500000%	82.500000%	
	ORRI		5.000000%	5.000000%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE	
E-4493	T-26-N, R-10-W Sec. 2: SW/4 NE/4	40.00	TRACT 102		.409055%
			Royalty	12.500000%	
			Working Interest: Amoco Production Co. ORRI	82.500000% 5.000000%	
			TOTAL	100.000000%	
E-2659-2	T-27-N, R-10-W Sec. 32: NE/4	160.00	TRACT 122-B		1.636221%
			Royalty	12.500000%	
			Working Interest: E1 Paso Natural Gas Co. ORRI	82.500000% 5.000000%	
			TOTAL	100.000000%	
E-2942-16	T-26-N, R-10-W Sec. 2: E/2 SE/4	80.00	TRACT 123-B		.818111%
			Royalty	12.500000%	
			Working Interest: E1 Paso Natural Gas Co. Amoco Production Co. ORRI	47.208902% 29.697500% 10.593598%	
			TOTAL	100.000000%	

SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION	
			OWNERSHIP	PERCENTAGE		
<u>TRACT 142</u>						
Wire Fee	<u>T-26-N, R-9-W</u>	40.00	Royalty	12.500000%	0.000000%	<u>.409055%</u>
Lease	Sec. 22: SE/4 NW/4		Working Interest:			
			Cenard Oil & Gas Co.	57.023750%	57.023750%	
			B & M Construction Co.	11.228963%	11.228963%	
			Benson-Montin-Greer Drilling Corp.	8.317750%	8.317750%	
			K. E. McAfee	4.158875%	4.158875%	
			Albert R. Greer	2.079438%	2.079438%	
			Charline Greer	2.079437%	2.079437%	
			La Plata Gathering System, Inc.	.574525%	.574525%	
			O. J. Lilly	.287262%	.287262%	
			ORRI	1.750000%	1.750000%	
			TOTAL	<u>100.000000%</u>	<u>87.500000%</u>	
<u>TRACT 142-A</u>						
Wire Fee	<u>T-26-N, R-9-W</u>	80.00	Royalty	12.500000%	0.000000%	<u>.818111%</u>
Lease	Sec. 22: S/2 NE/4		Working Interest:			
			Cenard Oil & Gas Co.	57.023750%	57.023750%	
			B & M Construction Co.	11.228963%	11.228963%	
			Benson-Montin-Greer Drilling Corp.	8.317750%	8.317750%	
			K. E. McAfee	4.158875%	4.158875%	
			Albert R. Greer	2.079438%	2.079438%	
			Charline Greer	2.079437%	2.079437%	
			La Plata Gathering System, Inc.	.574525%	.574525%	
			O. J. Lilly	.287262%	.287262%	
			ORRI	1.750000%	1.750000%	
			TOTAL	<u>100.000000%</u>	<u>87.500000%</u>	

RECAPITULATION

Description of Lands in Participating Area

Township 26 North, Range 9 West, N.M.P.M.

- Section 5: Lots 1, 2 S/2 NE/4, SE/4
- Section 6: Lots 1, 2, 3, 4, 5, 6, 7, SE/4 NW/4, E/2 SW/4, S/2 NE/4, SE/4 (A11)
- Section 7: Lots 1, 2, 3, 4, E/2 W/2, E/2 (A11)
- Section 8: A11
- Section 9: W/2
- Section 17: A11
- Section 18: Lots 1, 2, 3, 4, E/2 W/2, E/2 (A11)
- Section 22: N/2
- Section 23: W/2

Township 26 North, Range 10 West, N.M.P.M.

- Section 1: Lots 1, 2, 3, 4, S/2 N/2, S/2 (A11)
- Section 2: Lots 1, 2, 3, 4, S/2 N/2, S/2 (A11)
- Section 3: Lots 1, 2, 3, 4, S/2 N/2
- Section 4: Lots 1, 2, S/2 NE/4
- Section 12: S/2
- Section 13: N/2
- Section 17: W/2 NE/4, NW/4, N/2 SW/4, SE/4

Township 27 North, Range 9 West, N.M.P.M.

- Section 31: E/2

Township 27 North, Range 10 West, N.M.P.M.

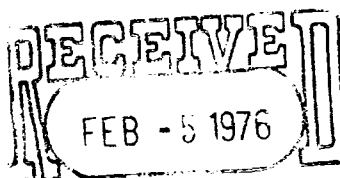
- Section 19: W/2
- Section 29: SE/4
- Section 32: NE/4
- Section 33: A11
- Section 34: A11
- Section 35: W/2, SE/4
- Section 36: E/2

Total Number of Acres in Participating Area: 10,418.63
Total Number of Acres Committed in Participating Area: 9,778.63

- (1) Robert L. Breedlove
- (1) Thomas G. Cornish
- (1) Estate of A. T. Hannett
- (1) G. W. Hannett
- (1) Corinne Roy Kelly, Ind. and as Exec. of the Estate of Frank Kelly
- (1) William H. McCartney
- (1) J. C. Smith

- (2) Forrest Gelbke and June Gelbke
- (2) James J. Hamilton, Jr.
- (2) Elma R. Jones
- (2) Laina Mabel Saari
- (2) Gladys Sketch
- (2) Estates of Mabel Toombs and Frank Toombs
- (2) Frances Walters
- (2) Everett S. Layman and Arthur J. Lempert
- (2) Children's Hospital
- (2) Estate of John Chapman
- (2) Mildred Moore
- (2) Camille Chilcote

El Paso NATURAL GAS
COMPANY



OIL CONSERVATION COMMISSION
Santa Fe P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-543-2600

February 3, 1976

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

Re: Huerfano Unit, I Sec. No. 731,
San Juan County, New Mexico
APPLICATION FOR APPROVAL OF THE
NINETEENTH REVISION OF THE PARTI-
CIPATING AREA FOR THE GALLUP
FORMATION, Effective December 1,
1974

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the Nineteenth Expanded Participating Area of the Gallup Formation for the referenced Unit.

If this Application meets with your approval, please execute all copies and forward them to the Oil Conservation Commission for its approval and execution. After this Application has been signed by the Commissioner of Public Lands and the Oil Conservation Commission, the Commissioner of Public Lands should retain two (2) copies for his file and the Oil Conservation Commission should retain one (1) copy for its file, and five (5) copies should be forwarded to the United States Geological Survey in Roswell, New Mexico, for its approval and further handling. After this Application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso.

Yours very truly,

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

JRP:DW:nm
Enclosure

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

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

January 22, 1976

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

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

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

Re: Huerfano Unit
Seventeenth and Eighteenth Revisions
Gallup Participating Area - Effective
September 1, 1974 and November 1, 1974,
respectively, San Juan County, New Mexico

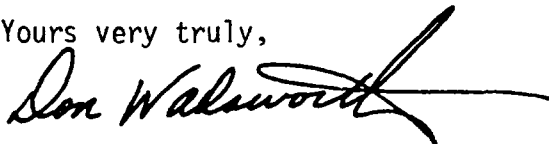
Gentlemen:

The referenced expansion of the Huerfano Unit Gallup Participating Area was approved by the Regulatory Agencies on the following dates:

United States Geological Survey	January 20, 1976
Commissioner of Public Lands	October 14, 1975
Oil Conservation Commission	October 16, 1975

Copies of this notice are being sent to the working interest owners of the Huerfano Unit.

Yours very truly,



Don Wadsworth
Landman
Land Department
Energy Resource Development

DW:nm
HU 5.0

P. O. Drawer 1857
Roswell, New Mexico 88201

January 20, 1976

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

Gentlemen:

Your application of October 3, 1975, requesting approval of the seventeenth and eighteenth revisions of the Gallup participating area for the Huerfano unit agreement, San Juan County, New Mexico, I Sec. No. 731, was approved January 20, 1976, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey effective as of September 1, 1974 and November 1, 1974, respectively.

The seventeenth revision adds 320 acres described as the W $\frac{1}{2}$ sec. 8, T. 26N., R. 9W., which enlarges the Gallup participating area to 9,798.43 acres. Such revision is based on the completion and production history of unit well No. 249 located in the NW $\frac{1}{4}$ of sec. 8, T. 26N., R. 9W. Unit well No. 249 was completed in the Gallup interval 5,720 to 6,094 feet on August 15, 1974. Ten months of operation has produced 18,440 MCF of gas and 530 barrels of oil.

The eighteenth revision also adds 320 acres described as the E $\frac{1}{2}$ sec. 31, T. 27N., R. 9W., N.M.P.M., which enlarges the Gallup participating area to 10,118.43 acres. Such revision is based on the completion and production history of unit well No. 256 located in the SE $\frac{1}{4}$ of sec. 31, T. 27N., R. 9W. Unit well No. 256 was completed in the Gallup interval 5,856 to 6,124 feet on October 30, 1974. Eleven months of operation has produced 31,589 MCF of gas and 8,539 barrels of oil.

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

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
Farmington (w/cy appln.)
BLM, Santa Fe (1tr only)
NMOCC, Santa Fe (1tr. only) ✓
Com. Publ Lands, Santa Fe (1tr. only)

JAGillham:dlk

January 16, 1976

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

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

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

Re: Huerfano Unit, I Sec. No. 731
San Juan County, New Mexico, NOTICE
OF COMPLETION OF NON-COMMERCIAL WELLS
Gallup Formation

Gentlemen:

El Paso Natural Gas Company, as Unit Operator of the Huerfano Unit Agreement, approved by the Director of the United States Geological Survey on June 6, 1950, by the Commissioner of Public Lands of the State of New Mexico on September 26, 1949, and by the Oil Conservation Commission of the State of New Mexico on September 20, 1949, pursuant to the provisions of Section 10 thereof, has determined that the following-described wells are not capable of producing unitized substances in paying quantities from the Gallup Formation:

The Huerfano Unit #248 well, located 1465' from the North Line and 865' from the West Line of Section 5, Township 26 North, Range 9 West, N.M.P.M., was spudded on May 9, 1974 and completed on March 21, 1975, in the Gallup Formation at a total depth of 6174'. The Gallup Formation at the intervals 5842', 5860', 5894', 5946', 5974', 6010', 6030', 6050', 6072', 6102' and 6108' was treated with a sand-water fracturing process on July 9, 1974. The well was shut-in on March 11, 1975, and after being shut-in for ten (10) days the well was tested on March 21, 1975, and following a three (3) hour blow-down period, the Gallup Formation gauged 145 MCF/D through a 3/4" choke and 164 MCF/D by the calculated absolute open-flow method, with an SIPC of 662 psia. The tubing was dead and therefore no pressure reading was made. The spacing unit for this well is described as the W/2 of Section 5, Township 26 North, Range 9 West, containing 322.28 acres.

The Huerfano Unit #254 well, located 1800' from the South Line and 800' from the East Line of Section 13, Township 26 North, Range 10 West, N.M.P.M., was spudded on January 30, 1974, and completed on December 3, 1974, in the Gallup Formation at a total depth of 6086'. The Gallup Formation at the intervals 5623', 5656', 5704', 5756', 5848', 5872', 5934', 5968', 6004', 6038' and 6044' was treated with a sand-water fracturing process on June 30, 1974. The well was shut-in on November 4, 1974 and after being shut-in for twenty-nine (29) days the well was tested on December 3, 1974, and following a three (3) hour blow-down period, the Gallup Formation gauged 441 MCF/D through a 3/4" choke and 606 MCF/D by the calculated absolute open-flow method, with an SIPC of 634 psia and an SIPT of 634 psia. The spacing unit for this well is described as the S/2 of Section 13, Township 26 North, Range 10 West, containing 320.00 acres.

Inasmuch as this determination needs no approval, none is provided therefore.

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

Yours very truly,



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

JRP:DW:nm
Enclosures
HU 4.4, 4.4.1

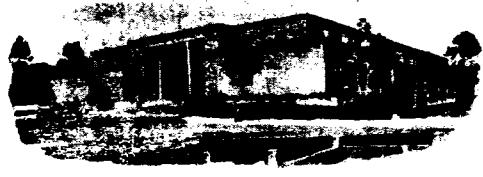
cc: Mr. Antonio Martinez

195

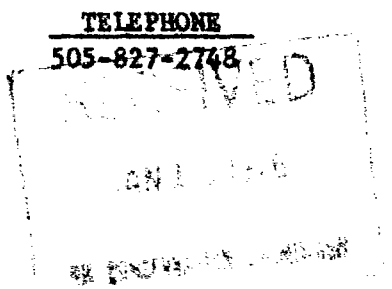


PHIL R. LUCERO
COMMISSIONER

State of New Mexico



Commissioner of Public Lands
January 16, 1976



TELEPHONE
505-827-2748
P. O. BOX 1148
SANTA FE, NEW MEXICO 87501

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

Re: Huerfano Unit
San Juan County, New Mexico
1976 DRILLING PROGRAM

ATTENTION: Mr. D. N. Canfield

Gentlemen:

The Commissioner of Public Lands has this date approved your 1976 Drilling Program for the Huerfano Unit, San Juan County, New Mexico. Such plan provides for the drilling of no wells during 1976. This approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Enclosed is one approved copy of the plan.

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

Very truly yours,

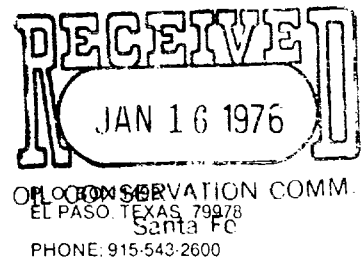
PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

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

FRL/RDG/s
encl.
cc:

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

El Paso NATURAL GAS
COMPANY



January 14, 1976

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

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

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

Re: Huerfano Unit, I Sec. No. 731
San Juan County, New Mexico, NOTICE
OF COMPLETION OF NON-COMMERCIAL WELLS
Gallup Formation

Gentlemen:

El Paso Natural Gas Company, as Unit Operator of the Huerfano Unit Agreement, approved by the Director of the United States Geological Survey on June 6, 1950, by the Commissioner of Public Lands of the State of New Mexico on September 26, 1949, and by the Oil Conservation Commission of the State of New Mexico on September 20, 1949, pursuant to the provisions of Section 10 thereof, has determined that the following-described wells are not capable of producing unitized substances in paying quantities from the Gallup Formation:

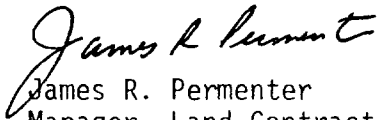
The Huerfano Unit #253 well, located 1050' from the South Line and 1090' from the East Line of Section 11, Township 26 North, Range 10 West, N.M.P.M., was spudded on February 7, 1974, and completed on November 15, 1974, in the Gallup Formation at a total depth of 6178'. The Gallup Formation at the intervals 5836', 5870', 5906', 5944', 6004', 6024', 6042', 6064', 6098' and 6108' was treated with a sand-water fracturing process on July 4, 1974. The well was shut-in on November 8, 1974, and after being shut-in for seven (7) days the well was tested on November 15, 1974 and following a three (3) hour blow-down period, the Gallup Formation gauged 135 MCF through a 3/4" choke and 161 MCF by the calculated absolute open-flow method, with an SIPC of 572 psia and an SIPT of 467 psia. The spacing unit for this well is described as the E/2 of Section 11, Township 26 North, Range 10 West, containing 320.00 acres.

The Huerfano Unit #255 well, located 1460' from the North Line and 800' from the West Line of Section 31, Township 27 North, Range 9 West, N.M.P.M., was spudded on April 17, 1974, and completed on November 27, 1974, in the Gallup Formation at a total depth of 6106'. The Gallup Formation at the intervals 5784', 5812', 5848', 5894', 5924', 5958', 5992', 6050' and 6054' was treated with a sand-water fracturing process on July 23, 1974. The well was shut-in on November 20, 1974, and after being shut-in for seven (7) days the well was tested on November 27, 1974, and following a three (3) hour blow-down period, the Gallup Formation gauged 150 MCF/D through a 3/4" choke and 171 MCF/D by the calculated absolute open-flow method, with an SIPC of 742 psia and an SIPT of 659 psia. The spacing unit for this well is described as the W/2 of Section 31, Township 27 North, Range 9 West, containing 324.80 acres.

Inasmuch as this determination needs no approval, none is provided therefore.

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

Yours very truly,



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

JRP:DW:nm
Enclosures
HU 4.4, 4.4.1

cc: Mr. Antonio Martinez

HUERFANO UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

B & M Construction Corporation

Benson-Montin-Greer Drilling Corp.

Robert L. Breedlove

Brookhaven Oil Company

Barbara Ann McConnell Bruss

Mrs. Ola E. Callahan

Estate of John S. Chapman

Camille Chilcote

Children's Hospital

Consolidated Oil & Gas, Inc.

Continental Oil Company

Thomas G. Cornish

CRA International, Ltd.

Crown Central Petroleum Corporation

Evko Development Company

First National Bank in Albuquerque,
Trustee U/W of A. T. Hannett, Deceased,
and U/A dated July 15, 1969 of
Louise Westfall Hannett

Mr. and Mrs. Forrest Gelbke

Albert R. Greer

Mrs. Charline K. Greer

HUERFANO UNIT
Working Interest Owners - Page Two

Alfred Gross, Trustee

Peter Gross

Gulf Oil Company

Dr. and Mrs. James J. Hamilton, Jr.

Mr. Vincent B. Hamilton

Mr. G. W. Hannett

Mrs. Beulah Irene Hanson

Clarence E. Hinkle and
Edna I. Hall, Trustees

Clarence E. Hinkle and
Frank O. Elliott, Trustees

Mrs. Billie D. Hood

Bernice Jeffs

Elma R. Jones

Corinne Roy Kelly, Individually and
as Executrix of the Estate of Frank
S. Kelly, Jr., Deceased

Mrs. Frances Langmore Kerrigan

La Plata Gathering System, Inc.

Everett F. Layman & Arthur J. Lempert

O. J. Lilly

Matagorda Oil Company

K. E. McAfee

William H. McCartney

Barbara Irene McConnell

J. W. McConnell, Jr.

Mildred Moore

HUERFANO UNIT
Working Interest Owners - Page Three

N-M Oil & Gas Venture

Northwest Pipeline Corporation

Pearl O. Pipkin

Laina Mabel Saari

Gladys Sketch

J. C. Smith

Sunland Refining Corporation

Sunshine Royalty Company

Tenneco Oil Company

Texas Pacific Oil Company, Inc.

Estate of Mr. and Mrs. Frank Toombs

Union Texas Petroleum
Denver, Colorado

Union Texas Petroleum
Houston, Texas

David W. Walters, Executor for the
Estate of Frances Walters, Deceased

Dr. Sherman Wengerd

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 8, 1976

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

Attention: Mr. D. N. Canfield

Re: 1976 Drilling Program,
Huerfano Unit, San
Juan County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Drilling Program for the calendar year 1976 providing for the drilling of no wells for the Huerfano Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the program is returned herewith.

Very truly yours,

JOE D. RAMEY
Secretary-Director

JDR/JEK/og

cc: United States Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
Santa Fe, New Mexico

January 2, 1976

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

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

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

Re: Huerfano Unit, I Sec. No. 731,
San Juan County, New Mexico
1976 DRILLING PROGRAM

Gentlemen:

By letters dated December 19, 1974 and June 19, 1975, El Paso Natural Gas Company, as Unit Operator of the Huerfano Unit, filed a Drilling Program and Supplemental Drilling Program covering the captioned unit for the calendar year 1975. These programs provided for the drilling of thirteen (13) Dakota wells and one (1) Precambrian Pennsylvania well. Dakota well No. 273 was drilled on acreage outside the Dakota Participating Area and caused the Forty-Sixth Expansion of the Participating Area. Pennsylvania Formation well No. 265 was drilled and found to be non-productive in the Pennsylvania Formation and has been plugged back to the Dakota Formation for a dual Gallup/Dakota Formation completion.

Due to pipe shortages and unavailability of rigs during 1974 and 1975, drilling in the San Juan Basin was delayed. These delays and the increasing shortage of gas necessitated a reevaluation of our proposed drilling programs in the San Juan Basin so that the wells proposed for drilling would obtain the maximum increase in deliverability. In this vein, Dakota wells Nos. 262, 266, 267, 268, 269, 270, 271, 272, 274, 275, Com #280 and Com #91 were not drilled during 1975 and will not be drilled during 1976.

Gallup wells Nos. 249 and 256, which were being evaluated last year were found to be commercial and caused the Seventeenth and Eighteenth Expansions of the Gallup Participating Area, respectively. Gallup well No. 257 was found to be non-commercial and did not cause an expansion of the Gallup Participating Area. Gallup well No. 252 was drilled within the boundaries of the Gallup Participating Area and did not cause an expansion. Due to unusually high distillate production, Gallup wells Nos. 248, 253, 254, 255, and 258 are still being evaluated.

As of this date, the total number of wells drilled in the Huerfano Unit on acreage committed to the Unit or on acreage pooled or communitized with acreage committed to the Unit is as follows:

Pictured Cliffs, Commercial	48
Pictured Cliffs Non-Commercial	2
Pictured Cliffs, Plugged and Abandoned	34
Gallup, Commercial	17
Gallup, Commercial, Plugged back from Dakota	1
Gallup, Non-Commercial, Plugged back from Dakota	2
Gallup, Non-Commercial	1
Dakota, Commercial	106
Dakota, Non-Commercial	12
Dakota, Plugged and Abandoned	2
Dakota, Temporarily Abandoned	2
Gallup-Dakota, Commercial	11
Gallup-Dakota, Commercial in Gallup only	1
Gallup-Dakota, Commercial in Dakota only	3
Gallup, Commercial Status not determined	5
Greenhorn, Non-Commercial, Plugged back from Dakota	1
Pennsylvania (Precambrian), Plugged back to Dakota	1
	<u>249</u>

Pursuant to Section 9 of the Huerfano Unit Agreement, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests the approval of a Drilling Program for the calendar year 1976 providing for the drilling of no wells.

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

All of the working interest owners have been contacted and this Drilling Program reflects, insofar as possible, their desires for additional drilling.

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

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 on the attached sheet.

Yours very truly,

D. N. Canfield
Director of Land
Energy Resource Development

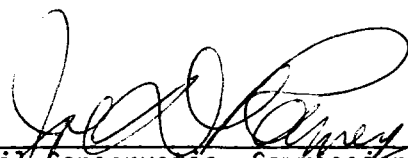
DNC:DW:nm
Attachments
HU, 3.0

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

DATE: _____

APPROVED: _____
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: January 8, 1976

The foregoing approvals are for the 1976 Drilling Program for the Huerfano Unit, I Sec. No. 731, San Juan County, New Mexico.

HUERFANO UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

B & M Construction Corporation

Benson-Montin-Greer Drilling Corp.

Robert L. Breedlove

Brookhaven Oil Company

Barbara Ann McConnell Bruss

Mrs. Ola E. Callahan

Estate of John S. Chapman

Camille Chilcote

Children's Hospital

Consolidated Oil & Gas, Inc.

Continental Oil Company

Thomas G. Cornish

CRA International, Ltd.

Crown Central Petroleum Corporation

Evko Development Company

First National Bank in Albuquerque,
Trustee U/W of A. T. Hannett, Deceased,
and U/A dated July 15, 1969 of
Louise Westfall Hannett

Mr. and Mrs. Forrest Gelbke

Albert R. Greer

Mrs. Charline K. Greer

HUERFANO UNIT
Working Interest Owners - Page Two

Alfred Gross, Trustee

Peter Gross

Gulf Oil Company

Dr. and Mrs. James J. Hamilton, Jr.

Mr. Vincent B. Hamilton

Mr. G. W. Hannett

Mrs. Beulah Irene Hanson

Clarence E. Hinkle and
Edna I. Hall, Trustees

Clarence E. Hinkle and
Frank O. Elliott, Trustees

Mrs. Billie D. Hood

Bernice Jeffs

Elma R. Jones

Corinne Roy Kelly, Individually and
as Executrix of the Estate of Frank
S. Kelly, Jr., Deceased

Mrs. Frances Langmore Kerrigan

La Plata Gathering System, Inc.

Everett F. Layman & Arthur J. Lempert

O. J. Lilly

Matagorda Oil Company

K. E. McAfee

William H. McCartney

Barbara Irene McConnell

J. W. McConnell, Jr.

Mildred Moore

HUERFANO UNIT
Working Interest Owners - Page Three

N-M Oil & Gas Venture

Northwest Pipeline Corporation

Pearl O. Pipkin

Laina Mabel Saari

Gladys Sketch

J. C. Smith

Sunland Refining Corporation

Sunshine Royalty Company

Tenneco Oil Company

Texas Pacific Oil Company, Inc.

Estate of Mr. and Mrs. Frank Toombs

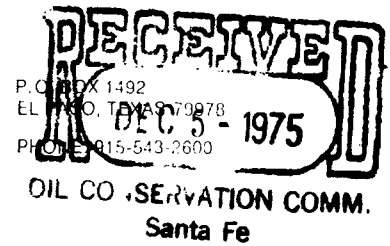
Union Texas Petroleum
Denver, Colorado

Union Texas Petroleum
Houston, Texas

David W. Walters, Executor for the
Estate of Frances Walters, Deceased

Dr. Sherman Wengerd

El Paso NATURAL GAS
COMPANY



December 2, 1975

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: Huerfano Unit
46th Expansion
Dakota Participating Area
Effective June 1, 1975
San Juan County, New Mexico

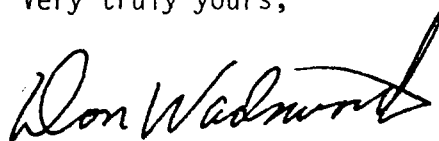
Gentlemen:

The referenced expansion of the Huerfano Unit Dakota Participating Area was approved by the Regulatory Agencies on the following dates:

United States Geological Survey	November 28, 1975
Commissioner of Public Lands	September 24, 1975
Oil Conservation Commission	September 25, 1975

Copies of this notice are being sent to the working interest owners of the Huerfano Unit.

Very truly yours,



Don Wadsworth
Landman
Land Department
Energy Resource Development

DW:sas
Huerfano Unit 5.0, 4.3



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

November 28, 1975

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

Gentlemen:

Your application of September 15, 1975, requesting approval of the forty-sixth revision of the Dakota participating area for the Huerfano unit agreement, San Juan County, New Mexico, I-Sec. No. 731, was approved on November 28, 1975, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of June 1, 1975.

The forty-sixth revision adds 320 acres described as the S $\frac{1}{2}$ sec. 33, T. 26 N., R. 10 W., N.M.P.M., which enlarges the Dakota participating area to 47,385.30 acres. This revision is based upon the information contributed by the following unit well:

<u>Well No.</u>	<u>Location</u>	<u>Completion Date</u>	<u>Calculated Potential, MCFD</u>
273	SW $\frac{1}{4}$ sec. 33, T. 26 N., R. 10 W.	May 8, 1975	3183

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

Sincerely yours,

(ORIG. SCD.) J. A. GILLHAM

J. A. GILLHAM
Acting Area Oil and Gas Supervisor

cc:

BLM, Santa Fe (ltr only)

Farmington (w/cy appln)

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

RDLindau:ds

El Paso NATURAL GAS
COMPANY

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

November 25, 1975

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

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

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

Re: Huerfano Unit
San Juan County, New Mexico
Forty-Third, Forty-Fourth, and
Forty-Fifth Expansions of the
Huerfano Unit Dakota Participating
Area


Gentlemen:

The Forty-Third, Forty-Fourth, and Forty-Fifth Dakota Expansions for the referenced unit were approved by the regulatory bodies on the following dates:

United States Geological Survey	November 20, 1975
Commissioner of Public Lands	January 3, 1975
Oil Conservation Commission	January 7, 1975

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

Yours very truly,



Don Wadsworth
Landman
Land Department
Energy Resource Development

DW:nm
HU 4.3



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

November 21, 1975

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

Gentlemen:

The forty-third, forty-fourth and forty-fifth revisions of the Dakota participating area for the Huerfano unit agreement, San Juan County, New Mexico, No. 1 Sec. 731, were approved on November 20, 1975, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of June 1, 1974, July 1, 1974, and August 1, 1974, respectively. By such revisions, the Dakota participating area is enlarged from 44,552.23 acres to 47,065.30 acres.

The forty-third revision of the Dakota participating area adds 320.00 acres described as the E $\frac{1}{4}$ sec. 12, T. 26 N., R. 11 W., N.M.P.M., and is based on the completion of Huerfano unit well No. 264 located in the NE $\frac{1}{4}$ of sec. 12. Well No. 264 was completed on May 23, 1974, for a calculated absolute open flow potential of 1699 MCFGPD from the Dakota 6494-6628 feet.

The forty-fourth revision of the Dakota participating area adds 1594.83 acres described as lots 3, 4, 5, 6, 7, SE $\frac{1}{4}$ NW $\frac{1}{4}$, E $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 6; lots 1, 2, 3, 4, E $\frac{1}{4}$ W $\frac{1}{4}$, E $\frac{1}{2}$ sec. 7; S $\frac{1}{2}$ sec. 32, all in T. 26 N., R. 10 W., and lots 3, 4, S $\frac{1}{4}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ sec. 1, T. 26 N., R. 11 W., and is based on the completion of the following unit wells:

<u>Well No.</u>	<u>Location</u>	<u>CAOF MCFGPD</u>	<u>Completion Date</u>
68	NE $\frac{1}{4}$ sec. 7, T. 26 N., R. 10 W.	1325	June 26, 1974
73	NE $\frac{1}{4}$ sec. 1, T. 26 N., R. 11 W.	1614	June 21, 1974
259	NW $\frac{1}{4}$ sec. 6, T. 26 N., R. 10 W.	446	June 6, 1974
263	SW $\frac{1}{4}$ sec. 32, T. 26 N., R. 10 W.	1384	June 27, 1974

The forty-fifth revision of the Dakota participating area adds 598.24 acres described as lots 1, 2, 3, 4, E $\frac{1}{2}$ W $\frac{1}{2}$ sec. 19 and SW $\frac{1}{4}$, S $\frac{1}{4}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 20, all in T. 26 N., R. 10 W., and is based on the completion of the following unit wells:

<u>Well No.</u>	<u>Location</u>	<u>CAOF</u>	
		<u>MCFGPD</u>	<u>Completion Date</u>
260	NW $\frac{1}{4}$ sec. 19, T. 26 N., R. 10 W.	526	July 9, 1974
261	SW $\frac{1}{4}$ sec. 20, T. 26 N., R. 10 W.	317	July 11, 1974

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

Sincerely yours,

CARL C. TRAYWICK
Acting Area Oil and Gas Supervisor

cc:
BLM, Santa Fe (ltr only)
NMOCC, Santa Fe (ltr only)
Com. Pub. Lands, Santa Fe (ltr only)
Farmington (w/cy of appln)

DMaldonado:ds

November 18, 1975

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

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

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

Re: Huerfano Unit, I Sec. No. 731
San Juan County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL
WELLS, Gallup Formation

Gentlemen:

Pursuant to Section 10 of the Huerfano Unit Agreement, I Sec. No. 731, El Paso Natural Gas Company, as Unit Operator, determined on the date set out below that one (1) additional well capable of producing unitized substances in commercial quantities has been completed upon acreage committed to the Unit. This well is as follows:

The Huerfano Unit #252 well, located 1755' from the South line and 1050' from the East line of Section 1, T-26-N, R-10-W, was spudded on March 15, 1974 and completed on November 25, 1974, in the Gallup Formation at a total depth of 6240'. The Gallup Formation at the intervals 5900', 5986', 6012', 6072', 6090', 6128', 6164', and 6168' was treated with a sand-water fracturing process on July 13, 1974. The well was shut-in on November 18, 1974 and after being shut-in for gauge for seven (7) days, the well was tested on November 25, 1974 and following a three-hour blow-down period the Gallup Formation gauged 136 MCF/D through a 3/4" choke and

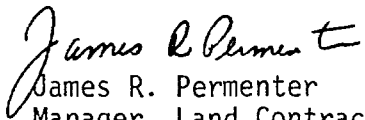
Regional Oil and Gas Supervisor
Commissioner of Public Lands
Oil Conservation Commission
Page Two

153 MCF/D by the absolute open-flow method, with an SIPC of 543 psia and an SIPT of 549 psia. The spacing unit for this well is described as the E/2 of Section 1, T-26-N, R-10-W, containing 319.87 acres.

The above-described spacing unit was included in the Huerfano Unit First and Tenth Expanded Participating Areas of the Gallup Formation effective September 1, 1958 and January 1, 1973, respectively, and the completion of this well does not warrant any further expansion of the Gallup Participating Area.

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

Yours very truly,



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

JRP:DW:nm
Huerfano Unit 4.1

cc: Mr. Antonio Martinez

HUERFANO UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

B & M Construction Corporation

Benson-Montin-Greer Drilling Corp.

Robert L. Breedlove

Brookhaven Oil Company

Barbara Ann McConnell Bruss

Mrs. Ola E. Callahan

Estate of John S. Chapman

Camille Chilcote

Children's Hospital

Consolidated Oil & Gas, Inc.

Continental Oil Company

Thomas G. Cornish

CRA International, Ltd.

Crown Central Petroleum Corporation

Evko Development Company

First National Bank in Albuquerque,
Trustee U/W of A. T. Hannett, Deceased,
and U/A dated July 15, 1969 of
Louise Westfall Hannett

Mr. and Mrs. Forrest Gelbke

Albert R. Greer

Mrs. Charline K. Greer

HUERFANO UNIT
Working Interest Owners - Page Two

Alfred Gross, Trustee

Peter Gross

Gulf Oil Company

Dr. and Mrs. James J. Hamilton, Jr.

Mr. Vincent B. Hamilton

Mr. G. W. Hannett

Mrs. Beulah Irene Hanson

Clarence E. Hinkle and
Edna I. Hall, Trustees

Clarence E. Hinkle and
Frank O. Elliott, Trustees

Mrs. Billie D. Hood

Bernice Jeffs

Elma R. Jones

Corinne Roy Kelly, Individually and
as Executrix of the Estate of Frank
S. Kelly, Jr., Deceased

Mrs. Frances Langmore Kerrigan

La Plata Gathering System, Inc.

Everett F. Layman & Arthur J. Lempert

O. J. Lilly

Matagorda Oil Company

K. E. McAfee

William H. McCartney

Barbara Irene McConnell

J. W. McConnell, Jr.

Mildred Moore

HUERFANO UNIT
Working Interest Owners - Page Three

N-M Oil & Gas Venture

Northwest Pipeline Corporation

Pearl O. Pipkin

Laina Mabel Saari

Gladys Sketch

J. C. Smith

Sunland Refining Corporation

Sunshine Royalty Company

Tenneco Oil Company

Texas Pacific Oil Company, Inc.

Estate of Mr. and Mrs. Frank Toombs

Union Texas Petroleum
Denver, Colorado

Union Texas Petroleum
Houston, Texas

David W. Walters, Executor for the
Estate of Frances Walters, Deceased

Dr. Sherman Wengerd

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE NEW MEXICO 87501

October 16, 1975

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

Attention: Mr. James R. Permenter

Re: Seventeenth and Eighteenth
Revisions, Gallup Participating
Area, Huerfano Unit, San Juan
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Seventeenth and Eighteenth revisions of the Participating Area for the Gallup Formation for the Huerfano Unit, San Juan County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Five approved copies of the application are being forwarded to the United States Geological Survey at Roswell, New Mexico, and two approved copies are returned to the Commissioner of Public Lands.

Very truly yours,

JOE D. RAMEY
Secretary-Director

JDR/JEK/og

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

Commissioner of Public Lands
Santa Fe, New Mexico

State of New Mexico

TELEPHONE
505-827-2748



PHIL R. LUCERO
COMMISSIONER

Commissioner of Public Lands
October 14, 1975

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

El Paso Natural Gas Company
P. O. Box 1492
El Paso, Texas 79999

Re: Huarfamo Unit
San Juan County, New Mexico
APPLICATION FOR APPROVAL OF THE
SEVENTEENTH AND EIGHTEENTH RE-
VISIONS OF THE PARTICIPATING
AREA FOR THE GALLUP FORMATION,
Effective September 1, 1974
and November 1, 1974, respec-
tively

ATTENTION: Mr. James R. Parmenter

Gentlemen:

The Commissioner of Public Lands has this date approved the Seventeenth and Eighteenth revisions of the Participating Area for the Gallup Formation, for the Huarfamo Unit, San Juan County, New Mexico. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are handing eight (8) copies of the application to the Oil Conservation Commission requesting them to forward five (5) copies to the United States Geological Survey at Roswell, New Mexico for their consideration. Two (2) copies to be returned to the Commissioner of Public Lands and one (1) copy should be retained by the Oil Conservation Commission. After this application has been approved by the United States Geological Survey, Two (2) copies should be returned to El Paso Natural Gas Company.

Very truly yours,

PHIL R. LUCERO
COMMISSIONER OF PUBLIC LANDS

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

PHL/EDG/e
cc:

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

October 3, 1975

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

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

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

Re: Huerfano Unit, I Sec. No. 731,
San Juan County, New Mexico
APPLICATION FOR APPROVAL OF THE
SEVENTEENTH AND EIGHTEENTH RE-
VISIONS OF THE PARTICIPATING
AREA FOR THE GALLUP FORMATION,
Effective September 1, 1974
and November 1, 1974, respec-
tively

Gentlemen:

El Paso Natural Gas Company, as Unit Operator of the Huerfano Unit Agreement, approved by the Director of the United States Geological Survey on June 6, 1950, by the Commissioner of Public Lands of the State of New Mexico on September 26, 1949, and by the Oil Conservation Commission of the State of New Mexico on September 20, 1949, pursuant to the provisions of Section 10 of the Huerfano Unit Agreement, El Paso Natural Gas Company respectfully submits for your approval the following selection of lands to constitute the Seventeenth and Eighteenth Revisions of the Participating Area for the Gallup Formation to wit:

Seventeenth Revision - Effective September 1, 1974

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 2 North, Range 9 West, N.M.P.M. Section 8 W/2</u>	320.00

This proposed Seventeenth Expansion of the Participating Area for the Gallup Formation is predicated upon the knowledge and information first obtained upon the completion in paying quantities of the following Huerfano Unit well:

The Huerfano Unit #249 Well, located 1550' from the North line and 1180' from the West line of Section 8, Township 26 North, Range 9 West, N.M.P.M., was spudded on February 12, 1974, and completed on August 15, 1974 in the Gallup Formation at a total depth of 6130'. The Gallup Formation at the intervals 5720', 5810', 5828', 5920', 5940', 5994', 6044', 6076, and 6094' was treated with a sand-water fracturing process on July 7, 1974. The well was shut-in on August 8, 1974 and after being shut-in for seven (7) days the well was tested on August 15, 1974 and following a three (3) hour blow-down period, the Gallup Formation gauged 212 MCF/D through a 3/4" choke and 212 MCF/D by the calculated absolute open-flow method, with an SIPC of 723 psia and an SIPT of 723 psia. The spacing unit for this well is described as the W/2 of Section 8, Township 26 North, Range 9 West, containing 320.00 acres.

Eighteenth Revision - Effective November 1, 1974

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 27 North, Range 9 West, N.M.P.M.</u> Section 31: E/2	320.00

This proposed Eighteenth Revision of the Participating Area for the Gallup Formation is predicated upon the knowledge and information first obtained upon the completion in paying quantities of the following Huerfano Unit well:

The Huerfano Unit #256 Well, located 1180' from the South line and 1550' from the East line of Section 31, Township 27 North, Range 9 West, N.M.P.M., was spudded on April 29, 1974 and completed on October 30, 1974 in the Gallup Formation at a total depth of 6182'. The Gallup Formation at the intervals 5856', 5864', 5890', 5964', 6004', 6024', 6046', 6084', 6120', and 6124' was treated with a sand-water fracturing process on October 4, 1974. The well was shut-in on October 23, 1974 and after being shut-in for seven (7) days the well was tested on October 30, 1974 and following a three (3) hour blow-down period, the Gallup Formation gauged 295 MCF/D through a 3/4" choke and 296 MCF/D by the calculated absolute open-flow method, with an SIPC of 912 psia and an SIPT of 463 psia. The spacing unit for this well is described as the E/2 of Section 31, Township 27 North, Range 9 West, containing 320.00 acres.

In support of this application, the following Exhibits are made a part hereof.

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Seventeenth and Eighteenth Expansions of the Gallup Participating Area.

EXHIBIT "B"

Geological Report concerning the Seventeenth and Eighteenth Expansions of the Gallup Formation in the Huerfano Unit.

EXHIBIT "C"

Huerfano Unit Structure Map contoured on the top of the Gallup Formation.

EXHIBIT "D"

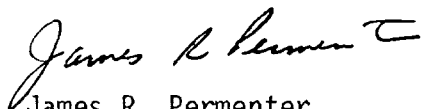
Schedule of Gallup oil and gas production.

Attached to this application are Schedules XVIII and XIX showing the lands entitled to participation in the unitized substances produced from the Gallup Formation with the percentage of participation of each lease or tract indicated thereon.

If the hereinabove selection of lands to constitute the Seventeenth and Eighteenth Revisions of the Gallup Participating Area meets with your approval, please indicate such approval in the space provided and return an approved copy hereof for our files.

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

Yours very truly,



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

JRP:DW:nm
Attachment
Huerfano Unit, 4.4

cc: Mr. Antonio Martinez

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

DATE: _____

APPROVED: Phil R. Sueno
Commissioner of Public Lands
Subject to like approval by the
United States Geological Survey
and the Oil Conservation Commission

DATE: October 14, 1975

APPROVED: John A. [Signature]
Oil Conservation Commission
Subject to like approval by the
United States Geological Survey
and the Commissioner of Public Lands

DATE: October 16, 1975

The foregoing approvals are for the Seventeenth and Eighteenth Revisions of the Participating Area for the Gallup Formation, effective September 1, 1974 and November 1, 1974, respectively, under the Huerfano Unit, I Sec. No. 731, San Juan County, New Mexico.

HUERFANO UNIT
Working Interest Owners

Amoco Production Company (3)
Denver, Colorado

Amoco Production Company
Farmington, New Mexico

Atlantic Richfield Company (3)

B & M Construction Corporation

Benson-Montin-Greer Drilling Corp.

Robert L. Breedlove

Brookhaven Oil Company

Barbara Ann McConnell Bruss

Mrs. Ola E. Callahan

Estate of John S. Chapman

Camille Chilcote

Children's Hospital

Consolidated Oil & Gas, Inc.

Continental Oil Company

Thomas G. Cornish

CRA International, Ltd.

Crown Central Petroleum Corporation

Evko Development Company

First National Bank in Albuquerque,
Trustee U/W of A. T. Hannett, Deceased,
and U/A dated July 15, 1969 of
Louise Westfall Hannett

Mr. and Mrs. Forrest Gelbke

Albert R. Greer

Mrs. Charline K. Greer

HUERFANO UNIT
Working Interest Owners - Page Two

Alfred Gross, Trustee

Peter Gross

Gulf Oil Company

Dr. and Mrs. James J. Hamilton, Jr.

Mr. Vincent B. Hamilton

Mr. G. W. Hannett

Mrs. Beulah Irene Hanson

Clarence E. Hinkle and
Edna I. Hall, Trustees

Clarence E. Hinkle and
Frank O. Elliott, Trustees

Mrs. Billie D. Hood

Bernice Jeffs

Elma R. Jones

Corinne Roy Kelly, Individually and
as Executrix of the Estate of Frank
S. Kelly, Jr., Deceased

Mrs. Frances Langmore Kerrigan

La Plata Gathering System, Inc.

Everett F. Layman & Arthur J. Lempert

O. J. Lilly

Matagorda Oil Company

K. E. McAfee

William H. McCartney

Barbara Irene McConnell

J. W. McConnell, Jr.

Mildred Moore

HUERFANO UNIT
Working Interest Owners - Page Three

N-M Oil & Gas Venture

Northwest Pipeline Corporation

Pearl O. Pipkin

Laina Mabel Saari

Gladys Sketch

J. C. Smith

Sunland Refining Corporation

Sunshine Royalty Company

Tenneco Oil Company

Texas Pacific Oil Company, Inc.

Estate of Mr. and Mrs. Frank Toombs

Union Texas Petroleum
Denver, Colorado

Union Texas Petroleum
Houston, Texas

David W. Walters, Executor for the
Estate of Frances Walters, Deceased

Dr. Sherman Wengerd

SCHEDULE XIX
 EIGHTEENTH EXPANDED PARTICIPATING AREA FOR THE GALLUP FORMATION
 HUERFANO UNIT AREA

TRACT NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078022	T-27-N, R-10-W Sec. 19: Lots 1,2, 3,4 E/2 W/2	334.08	TRACT 4, 4-A		12.500000%	<u>3.524634%</u>
			Royalty			
			Working Interest:			
			El Paso Natural Gas Co.	42.7083666%		
			Hudson Pool	.748790%		
			Kelly, et al (1)	1.144500%		
			Amoco Production Co.	29.697500%		
ORRI	13.200844%					
	TOTAL		100.000000%	100.000000%		
SF 080810	T-27-N, R-10-W Sec. 29: SE/4	160.00	TRACT 7		12.500000%	<u>1.688043%</u>
			Royalty			
			Working Interest:			
			El Paso Natural Gas Co.	35.150308%		
			Vincent B. Hamilton	13.125000%		
			Amoco Production Co.	29.697500%		
			ORRI	13.200844%		
	TOTAL		100.000000%	100.000000%		
SF 078233	T-27-N, R-10-W Sec. 33: NW/4	160.00	TRACT 11		12.500000%	<u>1.688043%</u>
			Royalty			
			Working Interest:			
			El Paso Natural Gas Co.	44.682574%		
			Kelly, et al (1)	2.749775%		
			Amoco Production Co.	29.697500%		
			ORRI	10.370151%		
	TOTAL		100.000000%	100.000000%		

SCHEDULE XIX

TRACT NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078354	T-27-N, R-10-W Sec. 33: S/2 SE/4	80.00	TRACT 12		12.500000%	<u>.844022%</u>
			Royalty Working Interest:			
			Crown Central Pet. Corp.		87.500000%	
			ORRI		0.000000%	
			TOTAL		<u>100.000000%</u>	
NM 02516	T-27-N, R-10-W Sec. 33: SW/4, N/2 SE/4	240.00	TRACT 13		12.500000%	<u>2.532065%</u>
			Royalty Working Interest:			
			El Paso Natural Gas Co.		38.248980%	
			Kelly, et al (1)		2.749775%	
			Amoco Production Co.		29.697500%	
ORRI		16.803745%				
TOTAL		<u>100.000000%</u>				
SF 077950	T-27-N, R-10-W Sec. 33: NE/4 Sec. 35: N/2 SW/4, NW/4	400.00	TRACT 14, 14-A		12.500000%	<u>4.220108%</u>
			Royalty Working Interest:			
			El Paso Natural Gas Co.		22.456014%	
			El Paso Natural Gas Co. (Gas only) & Atlantic Richfield Co. (Oil only)		21.375000%	
			Tenneco and Conoco		21.625000%	
Amoco Production Co.		14.348750%				
ORRI		7.695236%				
TOTAL		<u>100.000000%</u>				

SCHEDULE XIX

TRACT NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 081087	T-27-N, R-10-W Sec. 34: A11	640.00			0.000000%	0.000000%
	Royalty Working Interest: W. R. Weaver ORRI		12.500000%			
	TOTAL		100.000000%		0.000000%	
SF 079917	T-27-N, R-10-W Sec. 35: SE/4, S/2 SW/4	240.00			12.500000%	2.532065%
	Royalty Working Interest: El Paso Natural Gas Co. Kelly, et al (1) Hudson Pool (2) Amoco Production Co. ORRI		42.972861% 2.749775% 1.860913% 29.697500% 10.218951%			
	TOTAL		100.000000%		100.000000%	
IM 03017	T-26-N, R-9-W Sec. 6: Lots 1,2,3, 4,5,6,7, E/2 SW/4, SE/4 NW/4, S/2 NE/4, SE/4 (A11) Sec. 7: Lots 1,2,3, 4, E/2 W/2, E/2 (A11) Sec. 18: Lots 1,2,3, 4, E/2 W/2, NE/4	1786.52			12.500000%	18.848269%
	Royalty Working Interest: El Paso Natural Gas Co. Amoco Production Co. ORRI		47.208902% 27.197500% 13.093598%			
	TOTAL		100.000000%		100.000000%	

SCHEDULE XIX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATIO
			OWNERSHIP	PERCENTAGE		
NM 01051	T-27-N, R-9-W Sec. 31: E/2	320.00	<u>TRACT 19</u>		12.500000%	<u>3.376086%</u>
			Royalty		44.499861%	
			Working Interest:		29.697500%	
			El Paso Natural Gas Co., et al (1) (2)		13.302639%	
			Amoco Production Co. ORRI		<u>100.000000%</u>	
	TOTAL					
SF 078007	T-26-N, R-9-W Sec. 18: NW/4 SE/4	40.00	<u>TRACT 20</u>		12.500000%	<u>.422011%</u>
			Royalty		47.208902%	
			Working Interest:		27.197500%	
			El Paso Natural Gas Co. Amoco Production Co. ORRI		13.093598%	
				<u>100.000000%</u>		
	TOTAL					
SF 077936-A	T-26-N, R-10-W Sec. 1: Lots 1,2, S/2 NE/4, SE/4	319.87	<u>TRACT 21-A</u>		12.500000%	<u>3.374715%</u>
			Royalty		42.972861%	
			Working Interest:		2.749775%	
			El Paso Natural Gas Co. Kelly, et al (1) Hudson Pool (2) Amoco Production Co. ORRI		1.860913%	
				<u>100.000000%</u>		
	TOTAL					

57
9
10
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SCHEDULE XIX

TRIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUA PARTICIPATION
			OWNERSHIP	PERCENTAGE	
SF 078014	T-26-N, R-10-W Sec. 1: SW/4	160.00			
			<u>TRACT 22</u>		
	Royalty		12.500000%	12.500000%	<u>1.688043%</u>
	Working Interest:				
	El Paso Natural Gas Co.		42.972861%	42.972861%	
	Kelly, et al (1)		2.749775%	2.749775%	
	Hudson Pool (2)		1.860913%	1.860913%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		10.218951%	10.218951%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
					<u>1.263606%</u>
SF 077961	T-26-N, R-10-W Sec. 1: Lot 4, S/2 NW/4	119.77			
			<u>TRACT 23</u>		
	Royalty		12.500000%	12.500000%	<u>1.263606%</u>
	Working Interest:				
	El Paso Natural Gas Co.		42.972861%	42.972861%	
	Kelly, et al (1)		2.749775%	2.749775%	
	Hudson Pool (2)		1.860913%	1.860913%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		10.218951%	10.218951%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
					<u>.420323%</u>
SF 078001-B	T-26-N, R-10-W Sec. 1: Lot 3	39.84			
			<u>TRACT 24-B</u>		
	Royalty		12.500000%	12.500000%	<u>.420323%</u>
	Working Interest:				
	El Paso Natural Gas Co.		42.972861%	42.972861%	
	Kelly, et al (1)		2.749775%	2.749775%	
	Hudson Pool (2)		1.860913%	1.860913%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		10.218951%	10.218951%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	

SCHEDULE XIX

TRIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUA PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078267	T-26-N, R-10-W Sec. 3: Lots 3, 4, S/2 NW/4	159.25				
			<u>TRACT 25</u>			
	Royalty		12.500000%		12.500000%	
	Working Interest:					
	El Paso Natural Gas Company		49.972861%		49.972861%	
	Kelly, et al (1)		2.749775%		2.749775%	
	Hudson Pool (2)		1.860913%		1.860913%	
	Amoco Production Co.		29.697500%		29.697500%	
	ORRI		10.218951%		10.218951%	
	TOTAL		100.000000%		100.000000%	
						<u>1.680131%</u>
						<u>TRACT 25-A</u>
SF 078267-A	T-26-N, R-10-W Sec. 3: Lots 1, 2 S/2 NE/4	159.11				
			<u>TRACT 25-A</u>			
	Royalty		12.500000%		12.500000%	
	Working Interest:					
	El Paso Natural Gas Company		42.972861%		42.972861%	
	Kelly, et al (1)		2.749775%		2.749775%	
	Hudson Pool (2)		1.860913%		1.860913%	
	Amoco Production Co.		29.697500%		29.697500%	
	ORRI		10.218951%		10.218951%	
	TOTAL		100.000000%		100.000000%	
						<u>1.678654%</u>
WM 0396	T-26-N, R-10-W Sec. 4: Lots 1, 2, S/2 NE/4	159.65				
			<u>TRACT 27</u>			
	Royalty		12.500000%		12.500000%	
	Working Interest:					
	El Paso Natural Gas Co.		42.708366%		42.708366%	
	Kelly, et al (1)		1.144500%		1.144500%	
	Hudson Pool (2)		.748790%		.748790%	
	Amoco Production Co.		29.697500%		29.697500%	
	ORRI		13.200844%		13.200844%	
	TOTAL		100.000000%		100.000000%	
						<u>1.684351%</u>

SCHEDULE XIX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE	
SF 077935	T-26-N, R-10-W Sec. 13: NE/4 Sec. 12: SE/4	320.00			
			<u>TRACT 42</u>		
	Royalty		12.500000%	12.500000%	<u>3.376087%</u>
	Working Interest:				
	El Paso Natural Gas Co.		42.972861%	42.972861%	
	Kelly, et al (1)		2.749775%	2.749775%	
	Hudson Pool (2)		1.860913%	1.860913%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		10.218951%	10.218951%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
SF 077806	T-26-N, R-10-W Sec. 12: SW/4	160.00			
			<u>TRACT 43</u>		
	Royalty		12.500000%	12.500000%	<u>1.688043%</u>
	Working Interest:				
	El Paso Natural Gas Co.		42.972861%	42.972861%	
	Kelly, et al (1)		2.749775%	2.749775%	
	Hudson Pool (2)		1.860913%	1.860913%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		10.218951%	10.218951%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
NM 01368	T-26-N, R-10-W Sec. 13: NW/4	160.00			
			<u>TRACT 45</u>		
	Royalty		12.500000%	12.500000%	<u>1.688043%</u>
	Working Interest:				
	El Paso Natural Gas Co.		42.972861%	42.972861%	
	Kelly, et al (1)		2.749775%	2.749775%	
	Hudson Pool (2)		1.860913%	1.860913%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		10.218951%	10.218951%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	

Effective November 1, 1974

SCHEDULE XIX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION	
			OWNERSHIP	PERCENTAGE		
NM 02874-A	T-26-N, R-10-W Sec. 17: SE/4, N/2 SW/4	240.00	TRACT 48-A		<u>2.532065%</u>	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			El Paso Natural Gas Co.	41.841714%		41.841714%
			Amoco Production Co.	29.697500%		29.697500%
	ORRI	15.960786%	15.960786%			
	TOTAL	<u>100.000000%</u>	<u>100.000000%</u>	<u>100.000000%</u>		
SF 078012	T-26-N, R-10-W Sec. 17: NW/4, W/2 NE/4	240.00	TRACT 49		<u>2.532065%</u>	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			El Paso Natural Gas Co.	42.972861%		42.972861%
			Kelly, et al (1)	2.749775%		2.749775%
	Hudson Pool (2)	1.860913%	1.860913%			
	Amoco Production Co.	29.697500%	29.697500%			
	ORRI	10.218951%	10.218951%			
	TOTAL	<u>100.000000%</u>	<u>100.000000%</u>	<u>100.000000%</u>		
SF 078000	T-26-N, R-9-W Sec. 9: W/2	320.00	TRACT 77		<u>3.376087%</u>	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			Amoco Production Co.	85.000000%		85.000000%
			ORRI	2.500000%		2.500000%
	TOTAL	<u>100.000000%</u>	<u>100.000000%</u>	<u>100.000000%</u>		

Effective November 1, 1974

SCHEDULE XIX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 077980	<u>T-26-N, R-9-W</u> Sec. 5: Lots 1, 2, S/2 NE/4	161.82				
			<u>TRACT 80</u>			
	Royalty Interest: El Paso Natural Gas Co. Amoco Production Co. ORRI		12.500000%	47.208902%	47.208902%	<u>1.707245%</u>
				27.197500%	27.197500%	
				<u>13.093598%</u>	<u>13.093598%</u>	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	<u>100.000000%</u>	
						<u>11.816303%</u>
SF 077980-A	<u>T-26-N, R-9-W</u> Sec. 8: A11 Sec. 5: SE/4 Sec. 17: W/2	1120.00				
			<u>TRACT 80-A</u>			
	Royalty Interest: El Paso Natural Gas Co. Amoco Production Co. ORRI		12.500000%	47.208902%	47.208902%	<u>3.376087%</u>
				27.197500%	27.197500%	
				<u>13.093598%</u>	<u>13.093598%</u>	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	<u>100.000000%</u>	
SF 077980	<u>T-26-N, R-9-W</u> Sec. 17: E/2	320.00				
			<u>TRACT 80-B</u>			
	Royalty Interest: El Paso Natural Gas Co. Amoco Production Co. ORRI		12.500000%	47.208902%	47.208902%	<u>3.376087%</u>
				27.197500%	27.197500%	
				<u>13.093598%</u>	<u>13.093598%</u>	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	<u>100.000000%</u>	

Effective November 1, 1974

SCHEDULE XIX

WELL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE	
SF 078000-A	T-26-N, R-9-W Sec. 18: S/2 SE/4, NE/4 SE/4	120.00			
			<u>TRACT 81</u>		
	Royalty		12.500000%	12.500000%	<u>1.266032%</u>
	Working Interest:				
	El Paso Natural Gas Co.		47.208902%	47.208902%	
	Amoco Production Co.		27.197500%	27.197500%	
	ORRI		13.093598%	13.093598%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
					<u>TRACT 83</u>
NM 012736	T-26-N, R-9-W Sec. 22: N/2 N/2, SW/4 NW/4	200.00			
			<u>TRACT 83</u>		
	Royalty		12.500000%	12.500000%	<u>2.110054%</u>
	Working Interest:				
	El Paso Natural Gas Co.		42.904688%	42.904688%	
	Barbara Irene McConnell		14.917781%	14.917781%	
	Barbara Ann M. Bruss		5.074075%	5.074075%	
	O. J. Lilly		.361512%	.361512%	
	J. W. McConnell, Jr.		.304444%	.304444%	
	ORRI		23.937500%	23.937500%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
					<u>TRACT 85</u>
SF 078103	T-26-N, R-9-W Sec. 23: W/2	320.00			
			<u>TRACT 85</u>		
	Royalty		12.500000%	12.500000%	<u>3.376087%</u>
	Working Interest:				
	El Paso Natural Gas Co., et al (1) (2)		34.068457%	34.068457%	
	Amoco Production Co.		42.500000%	42.500000%	
	ORRI		10.931543%	10.931543%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	

SCHEDULE XIX

TRIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION	
			OWNERSHIP	PERCENTAGE		
E-921-6	T-26-N, R-10-W Sec. 2: Lot 4, SE/4 NE/4	79.55	<u>TRACT 96-A</u>		<u>.839274%</u>	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			El Paso Natural Gas Co.	42.972861%		42.972861%
			Kelly, et al (1)	2.749775%		2.749775%
			Hudson Pool (2)	1.860913%		1.860913%
			Amoco Production Co.	29.697500%		29.697500%
			ORRI	10.218951%		10.218951%
			TOTAL	100.000000%		100.000000%
			B-8801-28	T-26-N, R-10-W Sec. 2: S/2 NW/4, NW/4 SW/4		120.00
Royalty	12.500000%	12.500000%				
Working Interest:						
El Paso Natural Gas Co.	42.972861%	42.972861%				
Kelly, et al (1)	2.749775%	2.749775%				
Hudson Pool (2)	1.860913%	1.860913%				
Amoco Production Co.	29.697500%	29.697500%				
ORRI	10.218951%	10.218951%				
TOTAL	100.000000%	100.000000%				
B-10815-9	T-26-N, R-10-W Sec. 2: NE/4 SW/4, NW/4 SE/4	80.00			<u>TRACT 98-B</u>	
			Royalty	12.500000%	12.500000%	
			Working Interest:			
			El Paso Natural Gas Co.	42.972861%	42.972861%	
			Kelly, et al (1)	2.749775%	2.749775%	
			Hudson Pool (2)	1.860913%	1.860913%	
			Amoco Production Co.	29.697500%	29.697500%	
			ORRI	10.218951%	10.218951%	
			TOTAL	100.000000%	100.000000%	

SCHEDULE XIX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE	
B-11356-17	T-26-N, R-10-W Sec. 2: Lots 2, 3	79.26			
			<u>TRACT 99</u>		
	Royalty	12.500000%	12.500000%		<u>.836214%</u>
	Working Interest:				
	El Paso Natural Gas Co.	42.972861%	42.972861%		
	Kelly, et al (1)	2.749775%	2.749775%		
	Hudson Pool (2)	1.860913%	1.860913%		
	Amoco Production Co.	29.697500%	29.697500%		
	ORRI	10.218951%	10.218951%		
	TOTAL	100.000000%	100.000000%		
				<u>TRACT 100-A</u>	
B-9320-7	T-26-N, R-10-W Sec. 2: S/2 SW/4, SW/4 SE/4	120.00			
			<u>TRACT 100-A</u>		
	Royalty	12.500000%	12.500000%		<u>1.266032%</u>
	Working Interest:				
	El Paso Natural Gas Co.	42.708366%	42.708366%		
	Kelly, et al (1)	1.144500%	1.144500%		
	Hudson Pool (2)	.748790%	.748790%		
	Amoco Production Co.	29.697500%	29.697500%		
	ORRI	13.200844%	13.200844%		
	TOTAL	100.000000%	100.000000%		
B-11571-5	T-26-N, R-10-W Sec. 2: Lot 1	39.71			
			<u>TRACT 101</u>		
	Royalty	12.500000%	12.500000%		<u>.418951%</u>
	Working Interest:				
	Amoco Production Co.	82.500000%	82.500000%		
	ORRI	5.000000%	5.000000%		
	TOTAL	100.000000%	100.000000%		

SCHEDULE XIX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTU. PARTICIPATIO	
			OWNERSHIP	PERCENTAGE		
E-4493	T-26-N, R-10-W Sec. 2: SW/4 NE/4	40.00	<u>TRACT 102</u>		<u>.422011%</u>	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			Amoco Production Co.	82.500000%		82.500000%
			ORRI	5.000000%		5.000000%
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>		
E-2659-2	T-27-N, R-10-W Sec. 32: NE/4	160.00	<u>TRACT 122-B</u>		<u>1.688043%</u>	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			E1 Paso Natural Gas Co.	82.500000%		82.500000%
			ORRI	5.000000%		5.000000%
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>		
E-2942-16	T-26-N, R-10-W Sec. 2: E/2 SE/4	80.00	<u>TRACT 123-B</u>		<u>.844022%</u>	
			Royalty	12.500000%		12.500000%
			Working Interest:			
			E1 Paso Natural Gas Co.	47.208902%		47.208902%
			Amoco Production Co.	29.697500%		29.697500%
	ORRI		10.593598%	10.593598%		
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>		

SCHEDULE XIX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTU PARTICIPATIO	
			OWNERSHIP	PERCENTAGE		
<u>TRACT 142</u>						
Swire Fee Lease	T-26-N, R-9-W Sec. 22: SE/4 NW/4	40.00	Royalty	12.500000%	0.000000%	<u>.422011%</u>
			Working Interest:			
			Cenard Oil & Gas Co.	57.023750%	57.023750%	
			B & M Construction Co.	11.228963%	11.228963%	
			Benson-Montin-Greer Drilling Corp.	8.317750%	8.317750%	
			K. E. McAfee	4.158875%	4.158875%	
			Albert R. Greer	2.079438%	2.079438%	
			Charline Greer	2.079437%	2.079437%	
			La Plata Gathering System, Inc.	.574525%	.574525%	
			O. J. Lilly	.287262%	.287262%	
			ORRI	1.750000%	1.750000%	
			<u>TOTAL</u>	<u>100.000000%</u>	<u>87.500000%</u>	
<u>TRACT 142-A</u>						
Swire Fee Lease	T-26-N, R-9-W Sec. 22: S/2 NE/4	80.00	Royalty	12.500000%	0.000000%	<u>.844021%</u>
			Working Interest:			
			Cenard Oil & Gas Co.	57.023750%	57.023750%	
			B & M Construction Co.	11.228963%	11.228963%	
			Benson-Montin-Greer Drilling Corp.	8.317750%	8.317750%	
			K. E. McAfee	4.158875%	4.158875%	
			Albert R. Greer	2.079438%	2.079438%	
			Charline Greer	2.079437%	2.079437%	
			La Plata Gathering System, Inc.	.574525%	.574525%	
			O. J. Lilly	.287262%	.287262%	
			ORRI	1.750000%	1.750000%	
			<u>TOTAL</u>	<u>100.000000%</u>	<u>87.500000%</u>	

RECAPITULATION

Description of Lands in Participating Area

Township 26 North, Range 9 West, N.M.P.M.

Section 5: Lots 1, 2 S/2 NE/4, SE/4
Section 6: Lots 1, 2, 3, 4, 5, 6, 7, SE/4 NW/4, E/2 SW/4, S/2 NE/4, SE/4 (A11)
Section 7: Lots 1, 2, 3, 4, E/2 W/2, E/2 (A11)
Section 8: A11
Section 9: W/2
Section 17: A11
Section 18: Lots 1, 2, 3, 4, E/2 W/2, E/2 (A11)
Section 22: N/2
Section 23: W/2

Township 26 North, Range 10 West, N.M.P.M.

Section 1: Lots 1, 2, 3, 4, S/2 N/2, S/2 (A11)
Section 2: Lots 1, 2, 3, 4, S/2 N/2, S/2 (A11)
Section 3: Lots 1, 2, 3, 4, S/2 N/2
Section 4: Lots 1, 2, S/2 NE/4
Section 12: S/2
Section 13: N/2
Section 17: W/2 NE/4, NW/4, N/2 SW/4, SE/4

Township 27 North, Range 9 West, N.M.P.M.

Section 31: E/2

Township 27 North, Range 10 West, N.M.P.M.

Section 19: W/2
Section 29: SE/4
Section 32: NE/4
Section 33: A11
Section 34: A11
Section 35: W/2, SE/4

Total Number of Acres in Participating Area: 10,118.43
Total Number of Acres Committed in Participating Area: 9,478.43

- (1) Robert L. Breedlove
- (1) Thomas G. Cornish
- (1) Estate of A. T. Hannett
- (1) G. W. Hannett
- (1) Corinne Roy Kelly, Ind. and as Exec. of the Estate of Frank Kelly
- (1) William H. McCartney
- (1) J. C. Smith

- (2) Forrest Gelbke and June Gelbke
- (2) James J. Hamilton, Jr.
- (2) Elma R. Jones
- (2) Laina Mabel Saari
- (2) Gladys Sketch
- (2) Estates of Mabel Toombs and Frank Toombs
- (2) Frances Walters
- (2) Everett S. Layman and Arthur J. Lempert
- (2) Children's Hospital
- (2) Estate of John Chapman
- (2) Mildred Moore
- (2) Camille Chilcote

SCHEDULE XVII
SEVENTEENTH EXPANDED PARTICIPATING AREA FOR THE GALLUP FORMATION
HUBERLAND UNIT AREA

TRIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE PRESENT PARTICIPATING
			OWNERSHIP	PERCENTAGE COMMITTED	
SF 078022	T-27-N, R-10-W Sec. 19: Lots 1, 2, 3, 4, E/2 W/2	334.08	TRACT 4, 4-A		3.64778%
	Royalty		12.500000%	12.500000%	
	Working Interest:				
	El Paso Natural Gas Co.		42.708366%	42.708366%	
	Hudson Pool		.748790%	.748790%	
	Kelly, et al (1)		1.144500%	1.144500%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		13.200844%	13.200844%	
	TOTAL		100.000000%	100.000000%	
	TRACT 7				
SF 080810	T-27-N, R-10-W Sec. 29: SE/4	160.00	TRACT 7		1.74702%
	Royalty		12.500000%	12.500000%	
	Working Interest:				
	El Paso Natural Gas Co.		35.150308%	35.150308%	
	Vincent B. Hamilton		13.125000%	13.125000%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		13.200844%	13.200844%	
	TOTAL		100.000000%	100.000000%	
	TRACT 11				
SF 078233	T-27-N, R-10-W Sec. 33: NW/4	160.00	TRACT 11		1.74702%
	Royalty		12.500000%	12.500000%	
	Working Interest:				
	El Paso Natural Gas Co.		44.682574%	44.682574%	
	Kelly, et al (1)		2.749775%	2.749775%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		10.370151%	10.370151%	
	TOTAL		100.000000%	100.000000%	

SCHEDULE XVIII

TRACT NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT PARTIC
			OWNERSHIP	PERCENTAGE	
<u>TRACT 12</u>					
F 078354	T-27-N, R-10-W Sec. 33: S/2 SE/4	80.00	Royalty Working Interest: Crown Central Pet. Corp. ORRI	12.500000% 87.500000% 0.000000%	12.500000% 87.500000% 0.000000%
					<u>.87351</u>
<u>TRACT 13</u>					
4 02516	T-27-N, R-10-W Sec. 33: SW/4, N/2 SE/4	240.00	Royalty Working Interest: El Paso Natural Gas Co. Kelly, et al (1) Amoco Production Co. ORRI	12.500000% 38.248980% 2.749775% 29.697500% 16.803745%	12.500000% 38.248980% 2.749775% 29.697500% 16.803745%
					<u>2.620531</u>
<u>TRACT 14, 14-A</u>					
F 077950	T-27-N, R-10-W Sec. 33: NE/4 Sec. 35: N/2 SW/4, NW/4	400.00	Royalty Working Interest: El Paso Natural Gas Co. El Paso Natural Gas Co. (Gas only) and Atlantic Richfield Co. (Oil only) Tenneco and Conoco Amoco Production Co. ORRI	12.500000% 22.456014% 21.375000% 21.625000% 14.348750% 7.695235%	12.500000% 22.456014% 21.375000% 21.625000% 14.348750% 7.695235%
					<u>4.367561</u>
			TOTAL	<u>100.000000%</u>	<u>100.000000%</u>

SCHEDULE XVIII

TRIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT PARTIAL
			OWNERSHIP	PERCENTAGE		
F 081087	T-27-N, R-10-W Sec. 34: All	640.00				
	Royalty		12.500000%	0.000000%		0.000000
	Working Interest:					
	W. R. Weaver		85.000000%	0.000000%		
	ORRI		2.500000%	0.000000%		
	TOTAL		100.000000%	0.000000%		
	<u>TRACT 15</u>					
F 079917	T-27-N, R-10-W Sec. 35: SE/4, S/2 SW/4	240.00				
	Royalty		12.500000%	12.500000%		2.620536
	Working Interest:					
	El Paso Natural Gas Co.		42.972861%	4].972861%		
	Kelly, et al (1)		2.749775%	2.749775%		
	Hudson Pool (2)		1.860913%	1.860913%		
	Amoco Production Co.		29.697500%	29.697500%		
	ORRI		10.218951%	10.218951%		
	TOTAL		100.000000%	100.000000%		
	<u>TRACT 16</u>					
M 03017	T-26-N, R-9-W Sec. 6: Lots 1,2,3,4, 5,6,7, E/2 SW/4, SE/4 NW/4, S/2 NE/4, SE/4 (All) Sec. 7: Lots 1,2,3,4, E/2 W/2, E/2 (All) Sec. 18: Lots 1,2,3,4, E/2 W/2, NE/4	1786.52				
	Royalty		12.500000%	12.500000%		19.506837
	Working Interest:					
	El Paso Natural Gas Co.		47.208902%	47.208902%		
	Amoco Production Co.		27.197500%	27.197500%		
	ORRI		13.093598%	13.093598%		
	TOTAL		100.000000%	100.000000%		

SCHEDULE XVII I

WELL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT PARTICIPATION
			OWNERSHIP	PERCENTAGE	
078007	T-26-N, R-9-W Sec. 18: NW/4 SE/4	40.00			
			<u>TRACT 20</u>		
	Royalty		12.500000%	12.500000%	.436756
	Working Interest:				
	El Paso Natural Gas Co.		47.208902%	47.208902%	
	Amoco Production Co.		27.197500%	29.197500%	
	ORRI		13.093598%	13.093598%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
			<u>TRACT 21-A</u>		
077956-A	T-26-N, R-10-W Sec. 1: Lots 1, 2, S/2 NE/4, SE/4	319.87			
	Royalty		12.500000%	12.500000%	3.492629
	Working Interest:				
	El Paso Natural Gas Co.		42.972861%	42.972861%	
	Kelly, et al (1)		2.749775%	2.749775%	
	Hudson Pool (2)		1.860913%	1.860913%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		10.218951%	10.218951%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
			<u>TRACT 22</u>		
F 078014	T-26-N, R-10-W Sec. 1: SW/4	160.00			
	Royalty		12.500000%	12.500000%	1.747021
	Working Interest:				
	El Paso Natural Gas Co.		42.972861%	42.972861%	
	Kelly, et al (1)		2.749775%	2.749775%	
	Hudson Pool (2)		1.860913%	1.860913%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		10.218951%	10.218951%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	

SCHEDULE XVII

TAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT PARTICIPATION
			OWNERSHIP	PERCENTAGE	
F 077961	T-26-N, R-10-W Sec. 1: Lot 4, S/2 NW/4	119.77			1.30775%
	Royalty		42.972861%	42.972861%	
	Working Interest:				
	El Paso Natural Gas Co.		2.749775%	2.749775%	
	Kelly, et al (1)		1.860913%	1.860913%	
	Hudson Pool (2)		29.697500%	29.697500%	
	Amoco Production Co.		10.218951%	10.218951%	
	ORRI				
	TOTAL		100.000000%	100.000000%	
	<u>TRACT 24-B</u>				
078001-B	T-26-N, R-10-W Sec. 1: Lot 3	39.84			.43500%
	Royalty		42.972861%	42.972861%	
	Working Interest:				
	El Paso Natural Gas Co.		2.749775%	2.749775%	
	Kelly, et al (1)		1.860913%	1.860913%	
	Hudson Pool (2)		29.697500%	29.697500%	
	Amoco Production Co.		10.218951%	10.218951%	
	ORRI				
	TOTAL		100.000000%	100.000000%	
	<u>TRACT 25</u>				
F 078267	T-26-N, R-10-W Sec. 3: Lots 3,4, S/2 NW/4	159.25			1.73885%
	Royalty		49.972861%	49.972861%	
	Working Interest:				
	El Paso Natural Gas Co.		2.749775%	2.749775%	
	Kelly, et al (1)		1.860913%	1.860913%	
	Hudson Pool (2)		29.697500%	29.697500%	
	Amoco Production Co.		10.218951%	10.218951%	
	ORRI				
	TOTAL		100.000000%	100.000000%	

SCHEDULE XVIII

TRACT NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT PARTIC
			OWNERSHIP	PERCENTAGE	

078267-A

T-26-N, R-10-W
Sec. 3: Lots 1,2,
S/2 NE/4

159.11

TRACT 25-A

Royalty	12.500000%	12.500000%	1.73730
Working Interest:			
El Paso Natural Gas Co.	42.972861%	42.972861%	
Kelly, et al (1)	2.749775%	2.749775%	
Hudson Pool (2)	1.860913%	1.860913%	
Amoco Production Co.	29.697500%	29.697500%	
ORRI	10.218951%	10.218951%	
<u>TOTAL</u>	<u>100.000000%</u>	<u>100.000000%</u>	

M 0396

T-26-N, R-10-W
Sec. 4: Lots 1,2,
S/2 NE/4

159.65

TRACT 27

Royalty	12.500000%	12.500000%	1.74320
Working Interest:			
El Paso Natural Gas Co.	42.708366%	42.708366%	
Kelly, et al (1)	1.144500%	1.144500%	
Hudson Pool (2)	.748790%	.748790%	
Amoco Production Co.	29.697500%	29.697500%	
ORRI	13.200844%	13.200844%	
<u>TOTAL</u>	<u>100.000000%</u>	<u>100.000000%</u>	

TRACT 42

F 077935
T-26-N, R-10-W
Sec. 13: NE/4
Sec. 12: SE/4

320.00

3.49404

Royalty	12.500000%	12.500000%	
Working Interest:			
El Paso Natural Gas Co.	42.972861%	42.972861%	
Amoco Production Co.	29.697500%	29.697500%	
Hudson Pool (2)	1.860913%	1.860913%	
Kelly et al (1)	2.749775%	2.749775%	
ORRI	10.218951%	10.218951%	
<u>TOTAL</u>	<u>100.000000%</u>	<u>100.000000%</u>	

SCHEDULE XV111

TRIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT PARTICIPATION
			OWNERSHIP	PERCENTAGE	
3F 077806	T-26-N, R-10-W Sec. 12: SW/4	160.00			
			<u>TRACT 43</u>		
	Royalty		12.500000%	12.500000%	<u>1.747024</u>
	Working Interest:				
	El Paso Natural Gas Co.		42.972861%	42.972861%	
	Amoco Production Co.		29.697500%	29.697500%	
	Hudson Pool (2)		1.860913%	1.860913%	
	Kelly et al (1)		2.749775%	2.749775%	
	ORRI		10.218951%	10.218951%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
			<u>TRACT 45</u>		
NM 01368	T-26-N, R-10-W Sec. 13: NW/4	160.00			
	Royalty		12.500000%	12.500000%	<u>1.747024</u>
	Working Interest:				
	El Paso Natural Gas Co.		42.972861%	42.972861%	
	Amoco Production Co.		29.697500%	29.697500%	
	Hudson Pool (2)		1.860913%	1.860913%	
	Kelly et al (1)		2.749775%	2.749775%	
	ORRI		10.218951%	10.218951%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
			<u>TRACT 48-A</u>		
NM 02874-A	T-26-N, R-10-W Sec. 17: SE/4, N/2 SW/4	240.00			
	Royalty		12.500000%	12.500000%	<u>2.62053</u>
	Working Interest:				
	El Paso Natural Gas Co.		41.841714%	41.841714%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		15.960786%	15.960786%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	

SCHEDULE XVIII

TRACT NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT PARTICIP					
			OWNERSHIP	PERCENTAGE						
F 078012	T-26-N, R-10-W Sec. 17: NW/4, W/2 NE/4	240.00	TRACT 49		2.62053					
			Royalty	12.500000%		12.500000%				
			Working Interest:							
			El Paso Natural Gas Co.	42.972861%		42.972861%				
			Kelly, et al (1)	2.749775%		2.749775%				
			Hudson Pool (2)	1.860913%		1.860913%				
			Amoco Production Co.	29.697500%		29.697500%				
			ORRI	10.218951%		10.218951%				
			TOTAL	100.000000%		100.000000%				
				TRACT 77						
SF 078000	T-26-N, R-9-W Sec. 9: W/2	320.00	TRACT 77		3.49404					
			Royalty	12.500000%		12.500000%				
			Working Interest:							
			Amoco Production Co.	85.000000%		85.000000%				
			ORRI	2.500000%		2.500000%				
			TOTAL	100.000000%		100.000000%				
				TRACT 80						
			SF 077980	T-26-N, R-9-W Sec. 5: Lots 1,2, S/2 NE/4		161.82	TRACT 80		1.76689	
							Royalty	12.500000%		12.500000%
							Working Interest:			
El Paso Natural Gas Co.	47.208902%	47.208902%								
Amoco Production Co.	27.197500%	27.197500%								
ORRI	13.093598%	13.093598%								
TOTAL	100.000000%	100.000000%								

SCHEDULE XV111

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT PARTIC		
			OWNERSHIP	PERCENTAGE			
F 077930-A	T-26-N, R-9-W Sec. 8: A11 Sec. 5: SE/4 Sec. 17: W/2	1120.00	<u>TRACT 80-A</u>		12.2291		
			Royalty	12.500000%		12.500000%	
			Working Interest:				
			El Paso Natural Gas Co.	47.208902%		47.208902%	
			Amoco Production Co.	27.197500%		27.197500%	
			ORRI	13.093598%		13.093598%	
			TOTAL	<u>100.000000%</u>		<u>100.000000%</u>	
			<u>TRACT 80-B</u>				
			Royalty	12.500000%		12.500000%	
			Working Interest:				
			El Paso Natural Gas Co.	47.208902%		47.208902%	
			Amoco Production Co.	27.197500%		27.197500%	
ORRI	13.093598%	13.093598%					
TOTAL	<u>100.000000%</u>	<u>100.000000%</u>					
<u>TRACT 81</u>							
Royalty	12.500000%	12.500000%					
Working Interest:							
El Paso Natural Gas Co.	47.208902%	47.208902%					
Amoco Production Co.	27.197500%	27.197500%					
ORRI	13.093598%	13.093598%					
TOTAL	<u>100.000000%</u>	<u>100.000000%</u>					
<u>TRACT 83</u>							
Royalty	12.500000%	12.500000%					
Working Interest:							
El Paso Natural Gas Co.	42.904688%	42.904688%					
Barbara Irene McConnell	14.917781%	14.917781%					
Barbara Ann M. Bruss	5.074075%	5.074075%					
O. J. Lilly	.361512%	.361512%					
J. W. McConnell, Jr.	.304444%	.304444%					
ORRI	23.937500%	23.937500%					
TOTAL	<u>100.000000%</u>	<u>100.000000%</u>					
M 012736	T-26-N, R-9-W Sec. 22: N/2 N/2, SW/4 NW/4	200.00			2.18376		
F 078000-A	T-26-N, R-9-W Sec. 18: S/2 SE/4, NE/4 SE/4	120.00			1.31021		

SCHEDULE XVII

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT PARTIAL
			OWNERSHIP	PERCENTAGE		

SF 078103 T-26-N, R-9-W 320.00 TRACT 85 3.494

Sec. 23: W/2

Royalty
Working Interest:
El Paso Natural Gas Co. 33.217682% 33.217682%
Amoco Production Co. 42.500000% 42.500000%
Kelly et al (c) .407700% .407700%
Hudson Pool (a) .443075% .443075%
ORRI 10.931543% 10.931543%
TOTAL 100.000000% 100.000000%

E-921-6 T-26-N, R-10-W 79.55 TRACT 96-A .868

Sec. 2: Lot 4, SE/4 NE/4

Royalty
Working Interest:
El Paso Natural Gas Co. 42.972861% 42.972861%
Kelly, et al (1) 2.749775% 2.749775%
Hudson Pool (2) 1.860913% 1.860913%
Amoco Production Co. 29.697500% 29.697500%
ORRI 10.218951% 10.218951%
TOTAL 100.000000% 100.000000%

B-8801-28 T-26-N, R-10-W 120.00 TRACT 97-A 1.310

Sec. 2: S/2 NW/4, NW/4 SW/4

Royalty
Working Interest:
El Paso Natural Gas Co. 42.972861% 42.972861%
Kelly, et al (1) 2.749775% 2.749775%
Hudson Pool (2) 1.860913% 1.860913%
Amoco Production Co. 29.697500% 29.697500%
ORRI 10.218951% 10.218951%
TOTAL 100.000000% 100.000000%

Effective September 1, 1974

SCHEDULE XVIII

TRACT NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT PARTICIP
			OWNERSHIP	PERCENTAGE	

1-10815-9 T-26-N, R-10-W 80.00 .8735

Sec. 2: NE/4 SW/4, NW/4 SE/4

Royalty	12.500000%	12.500000%	
Working Interest:			
El Paso Natural Gas Co.	42.972861%	42.972861%	
Kelly, et al (1)	2.749775%	2.749775%	
Hudson Pool (2)	1.860913%	1.860913%	
Amoco Production Co.	29.697500%	29.697500%	
ORRI	10.218951%	10.218951%	
TOTAL	100.000000%	100.000000%	

TRACT 99

3-11356-17 T-26-N, R-10-W 79.26 .8654

Sec. 2: Lots 2,3,

Royalty	12.500000%	12.500000%	
Working Interest:			
El Paso Natural Gas Co.	42.972861%	42.972861%	
Kelly, et al (1)	2.749775%	2.749775%	
Hudson Pool (2)	1.860913%	1.860913%	
Amoco Production Co.	29.697500%	29.697500%	
ORRI	10.218951%	10.218951%	
TOTAL	100.000000%	100.000000%	

TRACT 100-A

B-9320-7 T-26-N, R-10-W 120.00 1.3102

Sec. 2: S/2 SW/4, SW/4 SE/4

Royalty	12.500000%	12.500000%	
Working Interest:			
El Paso Natural Gas Co.	42.708366%	42.708366%	
Kelly, et al (1)	1.144500%	1.144500%	
Hudson Pool (2)	.748790%	.748790%	
Amoco Production Co.	29.697500%	29.697500%	
ORRI	13.200844%	13.200844%	
TOTAL	100.000000%	100.000000%	

SCHEDULE XVII I

TRIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT PARTICIP	
			OWNERSHIP	PERCENTAGE		
E-11571-5	T-26-N, R-10-W Sec. 2: Lot 1	39.71				
			Royalty	12.500000%	12.500000%	.433591
			Working Interest:	82.500000%	82.500000%	
			Amoco Production Co.	5.000000%	5.000000%	
ORRI	100.000000%	100.000000%				
			TOTAL			
			<u>TRACT 101</u>			
E-4493	T-26-N, R-10-W Sec. 2: SW/4 NE/4.	40.00				
			Royalty	12.500000%	12.500000%	.43675
			Working Interest:	82.500000%	82.500000%	
			Amoco Production Co.	5.000000%	5.000000%	
ORRI	100.000000%	100.000000%				
			TOTAL			
			<u>TRACT 102</u>			
E-2659-2	T-27-N, R-10-W Sec. 32: NE/4	160.00				
			Royalty	12.500000%	12.500000%	1.74702
			Working Interest:	82.500000%	82.500000%	
			El Paso Natural Gas Co.	5.000000%	5.000000%	
ORRI	100.000000%	100.000000%				
			TOTAL			
			<u>TRACT 122-B</u>			

Effective September 1, 1974

SCHEDULE XVIII

AL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT A PARTICIP.
			OWNERSHIP	PERCENTAGE	
E-2942-16	T-26-N, R-10-W Sec. 2: E/2 SE/4	80.00			
			<u>TRACT 123-B</u>		
	Royalty		12.500000%	12.500000%	.87351
	Working Interest:				
	El Paso Natural Gas Co.		47.208902%	47.208902%	
	Amoco Production Co.		29.697500%	29.697500%	
	ORRI		10.593598%	10.593598%	
	TOTAL		<u>100.000000%</u>	<u>100.000000%</u>	
					<u>TRACT 142</u>
Swire	T-26-N, R-9-W	40.00			
Fee Lease	Sec. 22: SE/4 NW/4				.43675
			12.500000%	0.000000%	
	Royalty		57.023750%	57.023750%	
	Working Interest:				
	Cenard Oil & Gas Co.		11.228963%	11.228963%	
	B & M Construction Co.		8.317750%	8.317750%	
	Benson-Montin-Greer Drilling Corp.		4.158875%	4.158875%	
	K. E. McAfee		2.079438%	2.079438%	
	Albert R. Greer		2.079437%	2.079437%	
	Charline Greer		.574525%	.574525%	
	La Plata Gathering System, Inc.		.287262%	.287262%	
	O. J. Lilly		1.750000%	1.750000%	
	ORRI		<u>100.000000%</u>	<u>87.500000%</u>	
	TOTAL				

SCHEDULE XVIII

TRIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT PARTICI
			OWNERSHIP	PERCENTAGE	

TRACT 142-A

Swirc Fee Lease T-26-N, R-9-W 80.00 Sec. 22: S/2 NE/4 .87351

Royalty Working Interest:	12.500000%	0.000000%	
Cenard Oil & Gas Co.	57.023750%	57.023750%	
B & M Construction Co.	11.228963%	11.228963%	
Benson-Montin-Greer Drilling Corp.	8.317750%	8.317750%	
K. E. McAfee	4.158875%	4.158875%	
Albert R. Greer	2.079438%	2.079438%	
Charline Greer	2.079437%	2.079437%	
La Plata Gathering System, Inc.	.574525%	.574525%	
O. J. Lilly	.287262%	.287262%	
ORRI	1.750000%	1.750000%	
TOTAL	<u>100.000000%</u>	<u>87.500000%</u>	

RECAPITULATION

Description of Lands in Participating Area

Township 26 North, Range 9 West, N.M.P.M.
Section 5: Lots 1,2, S/2 NE/4, SE/4
Section 6: Lots 1,2,3,4,5,6,7, SE/4 NW/4, E/2 SW/4, S/2 NE/4, SE/4 (A11)
Section 7: Lots 1,2,3,4, E/2 W/2, E/2 (A11)
Section 8: A11
Section 9: W/2
Section 17: A11
Section 18: Lots 1,2,3,4, E/2 W/2, E/2 (A11)
Section 22: N/2
Section 23: W/2

Township 26 North, Range 10 West, N.M.P.M.
Section 1: Lots 1,2,3,4, S/2 N/2, S/2 (A11)
Section 2: Lots 1,2,3,4, S/2 N/2, S/2 (A11)
Section 3: Lots 1,2,3,4, S/2 N/2
Section 4: Lots 1,2, S/2 NE/4
Section 12: S/2
Section 13: N/2
Section 17: W/2 NE/4, NW/4, N/2 SW/4, SE/4

Township 27 North, Range 10 West, N.M.P.M.
Section 19: W/2
Section 29: SE/4
Section 32: NE/4
Section 33: A11
Section 34: A11
Section 35: W/2, SE/4

Total Number of Acres in Participating Area: 9,798.45
Total Number of Acres Committed in Participating Area: 9,158.45

Effective September 1, 1974

- (1) Robert L. Breedlove
- (1) Thomas G. Cornish
- (1) Estate of A. T. Hannett
- (1) G. W. Hannett
- (1) Corinne Roy Kelly, Ind. and as Exec. of the Estate of Frank Kelly
- (1) William H. McCartney
- (1) J. C. Smith

- (2) Forrest Gelbke and June Gelbke
- (2) James J. Hamilton, Jr.
- (2) Elma R. Jones
- (2) Laina Mabel Saari
- (2) Gladys Sketch
- (2) Estates of Mabel Toombs and Frank Toombs
- (2) Frances Walters
- (2) Everett S. Layman and Arthur J. Lempert
- (2) Children's Hospital
- (2) Estate of John Chapman
- (2) Mildred Moore
- (2) Camille Chicote

60. 1. 12. 1975

EXHIBIT "B"
HUERFANO UNIT
SAN JUAN COUNTY, NEW MEXICO
GEOLOGIC REPORT
GALLUP PRODUCING INTERVAL
PROPOSED SEVENTEENTH EXPANSION
OF THE GALLUP PARTICIPATING AREA

EL PASO NATURAL GAS COMPANY

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

EXHIBIT "B"

HUERFANO UNIT SAN JUAN COUNTY, NEW MEXICO

GEOLOGIC REPORT GALLUP PRODUCING INTERVAL

PROPOSED SEVENTEENTH EXPANSION OF THE GALLUP PARTICIPATING AREA

INTRODUCTION

The Huerfano Unit, located in the southwestern portion of the San Juan Basin, is comprised of 63,120.76 acres in Townships 25, 26 and 27 North, Ranges 9, 10 and 11 West, San Juan County, New Mexico.

Hydrocarbons are produced in this unit from three horizons of upper Cretaceous age. In descending order these are: (1) Pictured Cliffs sandstone (2) Gallup member of the Mancos, and (3) Dakota Producing Interval.

The Gallup member of the Mancos within the Huerfano Unit of San Juan County, New Mexico is of Upper Cretaceous Age and is described as being a series of interbedded gray, medium to fine grained, calcareous, shaly sandstones and dark gray to black shales. Electric log correlations show a distinct lensing effect within the Gallup member which results in relatively clean sands in one well being equivalent to very shaly sands in an offset well. Many of the wells in the Huerfano Unit have a certain amount of fracturing in the Gallup which helps to increase the productivity, especially in the shaly sand sections.

Included with this report as Exhibit "C," is a structure map contoured on top of the Gallup member of the Mancos formation. This map shows the gentle regional dip to the northeast and the general lack of any structural developments which could be utilized in predicting productive trends. A majority of the sands (including the Gallup in this area) deposited by the Upper Cretaceous seas within the San Juan Basin have a prevalent northwest-southeast trend.

Also included with this report as Exhibit "D," Table No. 1 is a tabulation of the Huerfano Unit Gallup gas production. This tabulation shows by well the absolute open flow potential, date of first delivery into the gathering system, cumulative gas production to January 1, 1974, production by months for 1974 from January through August, 1974 annual production to September 1, 1974 and cumulative gas production to September 1, 1974. Wells within the Gallup Participating Area have produced a cumulative total of 46,478,642 Mcf as of September 1, 1974.

Exhibit "D," Table No. 2 is a tabulation of the Huerfano Unit Gallup oil production. This tabulation shows by well cum oil production to January 1, 1974, production by months for 1974 from January through August 1974, annual production to September 1, 1974 and cum oil production to September 1, 1974. Wells within the Gallup Participating Area have produced a cumulative total of 648,685 barrels of oil as of September 1, 1974.

PROPOSED SEVENTEENTH EXPANSION
OF THE GALLUP PARTICIPATING AREA

Effective Date: September 1, 1974

The proposed Seventeenth Expansion of the Gallup Participating Area is based upon the completion of the Huerfano Unit No. 249 well by El Paso Natural Gas Company, the Unit operator. This well is located 1550 feet from the north line and 1180 feet from the west line in Section 8, T-26-N, R-9-W, San Juan County, New Mexico.

On August 15, 1974 the Huerfano Unit No. 249 well was tested for three hours through a 2.500 inch orifice and four inch meter run on 2.375 inch tubing with the following test results:

Shut-in	7 Days
SIPC	723 psia
SIPT	723 psia
FPT	27 psia
WPC	28 psia
IPF	212 Mcf/D
AOF	212 Mcf/D

Proposed Expanded Acreage

Township 26 North, Range 9 West

Section 8: West half

Huerfano Unit No. 249 well was perforated throughout the Gallup section from 5720 feet to 6094 feet. Upon being put on production, the monthly average production of gas and condensate have been as follows: January 1975, 22 Mcf/D and 66 barrels; February 1975, 34 Mcf/D and 0 barrels; March 1975, 67 Mcf/D and 76 barrels; April 1975, 68 Mcf/D and 61 barrels; May 1975, 79 Mcf/D and 60 barrels.

This proposed acreage is inferred to be capable of producing unitized substances in commercial quantities from the Gallup member of the Mancos formation.

EXHIBIT 'D'
TABLE NO. 1
GAL
HUERFANO
SAN JUAN COUNTY, NEW MEXICO

VOLUMES IN MCF AT 15.025 PSIA AND 60 DEGREES F.

WELL NAME AND NO.	AOF MCF/D	DATE OF FIRST DELIVERY	CURRENT WELL STATUS	1-1-74		1974 MONTHLY PRODUCTION												1974 PRUD	CUM PROD
				JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.								
MCADAMS #1	9010	58/04/30		2367	3664	3826	3425	2828	3409	3185	3427	26131	2038085						
MCADAMS #2 GL	15827	58/05/27		7633	10476	10380	9864	7696	9623	8600	10900	75192	3700969						
HUERFANO UNIT #99 GL	10157	58/10/31		12728	14276	15636	16051	13028	16796	13876	18063	120454	5317337						
MCADAMS #3 GL	21912	58/11/07		497	902	1134	1148	928	1101	839	936	7485	1094825						
HUERFANO UNIT #103 GL	5827	59/03/06		1462	1246	1354	861	1208	1029	1205	1267	9632	1922734						
HUERFANO UNIT #92 GL	1585	59/03/24		4258	4350	3179	2792	3403	2795	2670	3201	26648	1340971						
HUERFANO UNIT #105 GL	2216	59/04/07		23100	14594	14756	8290	7379	11858	15984	17754	113715	4112548						
HUERFANO UNIT #106 GL	9387	59/04/28		16763	15391	16510	21795	20498	15214	20046	20304	146521	4876927						
HUERFANO UNIT #107 GL	1188	59/06/26	DISC	0	0	0	0	0	0	0	0	0	842897						
HUERFANO UNIT #104 GL	442	59/07/02	DISC	0	0	0	0	0	0	0	0	0	217506						
HUERFANO UNIT #109 GL	3036	59/11/28		2968048	8535	7463	4519	7320	7798	8353	10962	64157	3032205						
HUERFANO UNIT NP #111 GL	2198	59/12/11		2881	2684	2711	1677	2538	1716	1620	1967	17794	703752						
MCADAMS #5	0	60/02/01	P & A	0	0	0	0	0	0	0	0	0	41575						
HUERFANO UNIT NP #110	821	60/02/18		460	513	472	407	571	567	491	526	4007	348250						
HUERFANO UNIT #108 GL	1227	60/03/15		2898393	5043	5282	1825	6444	4776	3613	5687	37937	2936330						
HUERFANO UNIT #112	292	60/03/31		815	1961	2527	2129	2726	2627	1731	2188	16724	530255						
HUERFANO UNIT NP #116 GL	272	61/02/10		359899	1271	1153	680	1078	1050	855	997	8095	367994						
HUERFANO UNIT #101 GL	1000	61/02/14		1243593	5817	4390	4851	6498	4750	6441	6539	46304	1289897						
HUERFANO UNIT #113 GL	2127	61/02/21		5189504	17079	13857	20330	18836	14248	18486	18834	133080	5322584						
HUERFANO UNIT #160	517	70/12/03		1153558	27928	26931	18618	24230	23206	22173	22030	190616	1344174						
MCADAMS #4 GL	23705	71/02/09	DISC	0	0	0	0	0	0	0	0	0	3273268						
HUERFANO UNIT #138	155	72/01/09		230782	7031	10290	9758	9956	9789	7036	9051	72747	303529						
HUERFANO UNIT #231	1002	73/06/19		97561	16262	10172	10917	15435	15041	10640	11523	106853	204414						
HUERFANO UNIT #232	294	73/06/19		21271	3179	2869	2085	2675	3091	2761	3256	23051	44322						
HUERFANO UNIT #242	245	73/09/12		4740	1602	1454	982	1649	1490	1388	1750	11983	16723						
HUERFANO UNIT #241	1434	73/09/12		210679	58017	46267	37910	47819	44790	42028	41113	370599	581278						
HUERFANO UNIT #238	306	73/09/13		40711	21994	22474	15636	20187	19554	18415	17970	158921	199632						
HUERFANO UNIT #233	429	73/09/13		26120	5643	3931	4491	4600	4427	3295	4322	35149	61269						
HUERFANO UNIT #247	547	73/09/19		5146	3002	3555	2851	4011	3780	4289	4577	29070	34216						
HUERFANO UNIT #234	348	73/09/19		3940	3217	4615	3378	4228	4200	3948	4071	32180	36120						
HUERFANO UNIT #236	457	73/09/19		19630	5234	4316	4305	4286	4060	2938	3913	32498	52128						
HUERFANO UNIT #240	748	73/09/20		38967	12105	10373	11562	12740	12151	8667	11521	87636	126603						
HUERFANO UNIT #237	263	73/10/31		116	405	1355	1247	1479	2314	2382	2140	11322	11440						
HUERFANO UNIT #239	423	74/03/06		0	0	12832	24061	31850	29902	27151	26089	151885	151885						
HUERFANO UNIT #249	212	75/01/20		0	0	0	0	0	0	0	0	0	0						
TOTALS				44310256	280016	249619	250632	288124	277152	285536	286878	2168386	46478642						

EXHIBIT "D"
TABLE NO. 2
HUERFANO UNIT
GALLUP OIL PRODUCTION, BBLs.
SAN JUAN COUNTY, NEW MEXICO

WELL NAME AND NO.	CUM. PROD. TO 1-1-74	1974 MONTHLY PRODUCTION												TOTAL PROD. TO 9-1-74	CUM. PROD. TO 9-1-74
		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST						
MCADAMS #1	21055	86	46	43	20	25	26	22	24	292	21347				
MCADAMS #2 GL	25054	62	23	83	14A	111	95	62	119	703	25757				
HUERFANO UNIT #99 GL	34236	-0-	102	100	75	99	98	164	99	737	34973				
MCADAMS #3 GL	53042	32	36	75	62	94	84	23	62	46A	53510				
HUERFANO UNIT #103	17215	-0-	-0-	-0-	-0-	66	24	-0-	-0-	90	17305				
HUERFANO UNIT #92	10366	-0-	-0-	75	-0-	-0-	-0-	68	-0-	183	10509				
HUERFANO UNIT #105	74646	100	99	69	-0-	92	99	198	98	755	75401				
HUERFANO UNIT #106	31808	-0-	203	75	100	99	98	198	99	A72	32680				
HUERFANO UNIT #107	77146	DISC.	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	77146				
HUERFANO UNIT #104	43632	DISC.	-0-	-0-	72	-0-	98	-0-	9A	357	43632				
HUERFANO UNIT #109	19865	-0-	-0-	53	-0-	-0-	-0-	-0-	42	95	3A39				
HUERFANO UNIT NP #111	3744	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	31A3				
MCADAMS #5	3183	P&A	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	21052				
HUERFANO UNIT NP #110	21052	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	27003				
HUERFANO UNIT #10A	27003	-0-	120	237	301	289	308	227	282	1744	4527A				
HUERFANO UNIT #112	83514	-0-	100	-0-	-0-	37	-0-	-0-	-0-	37	36A5				
HUERFANO UNIT NP #11A	3648	-0-	-0-	-0-	-0-	74	-0-	99	-0-	98	23753				
HUERFANO UNIT #101	23168	62	86	75	91	74	-0-	99	19A	67A	17649				
HUERFANO UNIT #113	16971	101	-0-	-0-	18P	9A	-0-	-0-	-0-	-0-	2033				
HUERFANO UNIT NP #151AY	2033	P&A	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	64A				
HUERFANO UNIT #160	5508	101	101	201	100	99	9A	96	184	9A0	64A				
MCADAMS #4	25219	DISC.	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	25219				
HUERFANO UNIT #13A	649	-0-	-0-	73	-0-	-0-	-0-	-0-	55	12A	777				
HUERFANO UNIT #231	934	203	75	201	100	99	98	98	197	1071	2005				
HUERFANO UNIT #232	869	-0-	101	100	-0-	99	98	109	-0-	507	1376				
HUERFANO UNIT NP #242	753	-0-	96	162	73	98	72	43	85	620	13A2				
HUERFANO UNIT #241	922	202	202	234	201	199	214	197	197	1644	256A				
HUERFANO UNIT #23A	280	101	147	166	100	199	98	163	163	97A	1253				
HUERFANO UNIT #233	552	101	99	98	100	89	92	111	94	784	1336				
HUERFANO UNIT #247	355	-0-	96	71	-0-	115	-0-	88	34	404	759				
HUERFANO UNIT #234	518	101	75	195	9A	65	-0-	96	67	695	1213				
HUERFANO UNIT #236	861	100	100	99	99	136	96	71	-0-	701	1562				
HUERFANO UNIT #240	705	-0-	98	98	83	-0-	-0-	-0-	42	321	1026				
HUERFANO UNIT #237	-0-	-0-	-0-	100	89	72	-0-	99	12	472	372				
HUERFANO UNIT #239	-0-	-0-	-0-	99	300	19A	99	99	206	1095	1095				
HUERFANO UNIT #249	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-	-0-				
TOTAL	630406	1352	2005	2871	2392	2551	2088	2267	2453	18179	6466A5				