

CSF 12/17/75

Prepared by  
Approved by

EXHIBIT "D"  
SAN JUAN UNIT 29-5 DAKOTA PRODUCTION  
RIO ARriba CO. NEW MEXICO  
MCF @ 14.73 psia 60° F

WELL	L O C A T I O N			CUM. PROD. TO 1-1-75	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	1-1-75 TO		INITIAL AOF (Calc) MCF/D
	SECTION	TOWNSHIP	RANGE													12-1-75 YTD	PRODUCTION TO 12-1-75	
13	30	29N	56**															908 PSA
22	08		**															
32	29		*	1030538	2357	2428	3571	3022	2769	1927	2634	6104	1435	5586	5538	37371	1067909	3185 PSA
45	22		**															
50	07		**															PSA
51	19			717206	10457	9885	10494	7501	7633	10385	8237	8096	10293	6973	9933	99967	817173	5674
52	29			511672	9013	8530	8374	5027	8300	9277	8785	7437	7120	5458	8287	65608	597280	5126
53	32			424296	5366	7075	5619	5900	6023	6968	5999	6933	7748	7764	5360	70755	495051	2181
54	31			347548	4967	5379	5005	3549	9863	8368	7485	6185	5342	4559	808	64510	412158	3785
55	18			428496	7944	8791	8135	10543	6792	8667	9961	8804	7498	9748	7852	94735	523231	3524
56	19			361431	7019	10001	9162	8980	4466	8381	8964	8874	9236	7291	6654	89028	450459	3049
57	20			362412	8472	10013	9016	9084	2699	10811	6357	11685	9846	8857	7377	94217	456629	4546
58	30			161258	4654	3517	4439	4677	4745	3422	4584	4293	3409	5765	4241	47746	208004	2182
59	31			263500	6940	8031	5008	8351	7611	8254	8296	8076	7496	8442	5122	81627	345127	3867
60	32			475267	9410	12348	11833	9448	11033	12272	10353	12535	11058	11614	8843	120742	596009	4473
62	07			160137	9341	11979	9433	9333	7181	5673	5408	9320	7863	9520	8409	93460	253597	4083
63	17			130280	7431	10966	8752	12105	5436	7506	7902	11545	9643	7416	6032	94734	225014	4109
64	21			168686	11664	12544	12812	14090	10421	13583	11592	7875	14245	11158	6614	126608	295294	3075
65	28			148223	9262	89591	6597	4479	8512	8163	8080	7254	7824	6578	7681	83389	231612	3219
66	33			221346	14150	18044	14618	10423	15449	13802	9057	18400	15262	15540	8601	153346	374692	4706
67	20			95396	4914	5532	4840	6300	3104	5280	5416	5243	4057	5127	4533	54346	149742	2844
68	20			48728	2961	3334	3344	3109	1960	1793	2550	2312	2882	2978	2235	29458	78186	2878
69	18																	4348
70	28																	3226
71	16																	1129
75	22																	4741
77	26																	4857
T O T A L S				6056520	136322	157356	141052	135996	123997	164532	131660	150971	142257	140384	117120	1521647	7578167	
* NON COMMERCIAL																		
** PLUGGED AND ABANDONED																		

\* NON COMMERCIAL  
\*\* PLUGGED AND ABANDONED

NEW WELLS NOT  
CONNECTED YET.

## SCHEDULE IX

ETCITH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 29--5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078277	T. 29N, R. 5W	280.00	<u>TRACT 1</u>		12.50%	4.794521%
	Sec. 18: SW/4,		Royalty;			
	W/2 NW/4, SE/4		Working Interest;			
	NW/4		El Paso Natural Gas Co.;			
			ORRI;			
			TOTAL	100.00%		
SF 078277	T. 29N, R. 5W	198.96	<u>TRACT 1-A</u>		12.50%	3.406848%
	Sec. 7: SE/4,		Royalty;			
	Lot 3		Working Interest;			
			El Paso Natural Gas Co.;			
			ORRI;			
			TOTAL	100.00%		
SF 078281	T. 29N, R. 5W	960.00	<u>TRACT 2</u>		12.50%	16.438355%
	Sec. 17: S/2		Royalty;			
	Sec. 18: E/2		Working Interest;			
	Sec. 20: N/2		Phillips Petroleum Co.;			
			ORRI;			
			TOTAL	100.00%		
SF 078282	T. 29N, R. 5W	680.00	<u>TRACT 3</u>		12.50%	11.643835%
	Sec. 19: All		Royalty;			
	Sec. 30: SE/4 SE/4		Working Interest;			
			El Paso Natural Gas Co.;			
			ORRI;			
			TOTAL	100.00%		

Effective April 1, 1975

## NIT AREA EXPANSION SCHEDULE

## SCHEDULE IX

-2-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078282	T. 29N, R. 5W	280.00	<u>TRACT 3-A</u>			
	Sec. 29: NE/4		Royalty;	12.50%	12.50%	4.794521%
	Sec. 31: N/2 NW/4, NE/4 NE/4		Working Interest; El Paso Natural Gas Co.; ORRI;	83.00% 4.50%	83.00% 4.50%	
			TOTAL	100.00%	100.00%	
NM 011348	T. 29N, R. 5W	120.00	<u>TRACT 4-B</u>			
	Sec. 31: NE/4 SW/4, N/2 SE/4		Royalty;	12.50%	12.50%	2.054795%
			Working Interest; Tom Bolack; ORRI;	87.50% 0.00%	87.50% 0.00%	
			TOTAL	100.00%	100.00%	
NM 011348-A	T. 29N, R. 5W	80.00	<u>TRACT 4-C</u>			
	Sec. 33: E/2 NW/4		Royalty;	12.50%	12.50%	1.369863%
			Working Interest; American Pet. Co. of Tex.; ORRI;	87.50% 0.00%	87.50% 0.00%	
			TOTAL	100.00%	100.00%	
SF 078410-A	T. 29N, R. 5W	120.00	<u>TRACT 6-A</u>			
	Sec. 31: SE/4 SW/4, S/2 SE/4		Royalty;	12.50%	12.50%	2.054795%
			Working Interest; El Paso Natural Gas Co.; ORRI;	82.50% 5.00%	82.50% 5.00%	
			TOTAL	100.00%	100.00%	

Effective April 1, 1975

## UNIT AREA EXPANSION SCHEDULE

## SCHEDULE IX

-3-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 079851	T. 29N, R. 5W Sec. 30: W/2, N/2 SE/4	400.00	<u>TRACT 15</u>			
			Royalty;	12.50%	12.50%	6.849314%
			Working Interest:			
			El Paso Natural Gas Co.;	83.00%	83.00%	
			ORRI;	4.50%	4.50%	
			TOTAL	100.00%	100.00%	
NM 011350-A	T. 29N, R. 5W Sec. 33: S/2 SW/4	80.00	<u>TRACT 17-B</u>			
			Royalty;	12.50%	12.50%	1.369863%
			Working Interest:			
			American Pet. Co. of Tex.;	87.50%	87.50%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
NM 03188	T. 29N, R. 5W Sec. 20: S/2	320.00	<u>TRACT 21</u>			
			Royalty;	12.50%	12.50%	5.479452%
			Working Interest:			
			El Paso Natural Gas Co.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
			TOTAL	100.00%	100.00%	
NM 03188	T. 29N, R. 5W Sec. 29: SE/4	160.00	<u>TRACT 21-A</u>			
			Royalty;	12.50%	12.50%	2.739726%
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

Effective April 1, 1975



## SCHEDULE IX

-4-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
NM 03188	<u>T. 29N, R. 5W</u>		<u>TRACT 21-B</u>			
	Sec. 28: N/2 NW/4, SW/4 NW/4, S/2 SW/4	200.00	Royalty; Working Interest: Phillips Petroleum Co.; ORRI;	12.50% 83.50% <u>4.00%</u> 100.00%	12.50% 83.50% <u>4.00%</u> 100.00%	3.424658%
			TOTAL			
NM 03188	<u>T. 29N, R. 5W</u>		<u>TRACT 21-C</u>			
	Sec. 21: W/2	320.00	Royalty; Working Interest: Phillips Petroleum Co. ORRI;	12.50% 82.50% <u>5.00%</u> 100.00%	12.50% 82.50% <u>5.00%</u> 100.00%	5.479452%
			TOTAL			
E-289-3	<u>T. 29N, R. 5 W</u>		<u>TRACT 22</u>			
	Sec. 32: W/2 NW/4	80.00	Royalty; Working Interest: The Wiser Oil Co.; ORRI;	12.50% 87.50% <u>0.00%</u> 100.00%	12.50% 87.50% <u>0.00%</u> 100.00%	1.369863%
			TOTAL			
E-289-35	<u>T. 29N, R. 5W</u>		<u>TRACT 22-A</u>			
	Sec. 32: E/2 SE/4	80.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 82.50% <u>5.00%</u> 100.00%	12.50% 82.50% <u>5.00%</u> 100.00%	1.369863%
			TOTAL			

Effective April 1, 1975

## UNIT AREA EXPANSION SCHEDULE

## SCHEDULE IX

-5-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
E-289-36	T. 29N, R. 5W Sec. 32: W/2 SW/4, NE/4, SE/4 NW/4	280.00	<u>TRACT 22-C</u>			
			Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	4.794521%
			TOTAL			
E-289-31	T. 29N, R. 5W Sec. 32: NE/4 NW/4	40.00	<u>TRACT 22-D</u>			
			Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	0.684932%
			TOTAL			
Fee	T. 29N, R. 5W Sec. 18: NE/4 NW/4	40.00	<u>TRACT 24</u>			
			Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 83.50% 4.00% <u>100.00%</u>	12.50% 83.50% 4.00% <u>100.00%</u>	0.684932%
			TOTAL			
Fee	T. 29N, R. 5W Sec. 7: Lot 4, Tract 121.04 #37 less north 10.46 acres		<u>TRACT 24-A</u>			
			Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 83.50% 4.00% <u>100.00%</u>	12.50% 83.50% 4.00% <u>100.00%</u>	2.072603%
			TOTAL			

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## SCHEDULE IX

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Fee	T. 29N, R. 5W		TRACT 29			
	Sec. 28: N/2 SW/4, SE/4 NW/4, SE/4, SW/4 NE/4	320.00	Royalty; Working Interest: Phillips Petroleum Co.; ORRI;	12.50% 85.00% 2.50% 100.00%	12.50% 85.00% 2.50% 100.00%	5.479452%
			TOTAL			
			TRACT 30			
	T. 29N, R. 5W Sec. 30: SW/4 SE/4 Sec. 31: SE/4 NW/4, N/2 SW/4 NW/4, W/2 NE/4, SE/4 NE/4	220.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 83.50% 4.00% 100.00%	12.50% 83.50% 4.00% 100.00%	3.767123%
Fee			TOTAL			
			TRACT 33			
	T. 29N, R. 5W Sec. 31: W/2 SW/4, S/2 SW/4 NW/4	100.00	Royalty; Working Interest: El Paso Natural Gas Co.; American Pet. Co. of Tex.; ORRI;	12.50% 58.59% 21.88% 7.03% 100.00%	12.50% 58.59% 21.88% 7.03% 100.00%	1.712329%
			TOTAL			

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SCHEDULE IX

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Fee	T. 29N, R. 5W Sec. 32: E/2 SW/4, W/2 SE/4	160.00	Royalty; Working Interest: Amoco Production Co.; ORRI;  TOTAL	12.50%  87.50% 0.00% <u>100.00%</u>	12.50%  87.50% 0.00% <u>100.00%</u>	2.739726%
Fee	T. 29N, R. 5W Sec. 33: W/2 NW/4, N/2 SW/4	160.00	Royalty; Working Interest: T. H. McElvain Estate-1/4 Ruth M. Vaughan-1/6 Carl R. McElvain Estate-1/6 J. Wm. McElvain-1/6 Mabelle M. Miller, -1/4 Individually & Independent Executrix of the Estate of Forrest B. Miller ORRI;  TOTAL	12.5000%  20.6250% 13.7500% 13.7500% 13.7500% 20.6250%  <u>5.0000%</u> <u>100.0000%</u>	12.5000%  20.6250% 13.7500% 13.7500% 13.7500% 20.6250%  <u>5.0000%</u> <u>100.0000%</u>	2.739726%
Fee	T. 29N, R. 5W Sec. 28: NW/4 NE/4	40.00	Royalty; Working Interest: Phillips Petroleum Co.; ORRI;  TOTAL	12.50%  87.50% 0.00% <u>100.00%</u>	12.50%  87.50% 0.00% <u>100.00%</u>	0.684932%

Effective April 1, 1975

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

RECAPITULATION

Description of lands in Participating Area:

Township 29 North, Range 5 West, N. M. P. M.  
Section 7: SE/4, Lots 3, 4, Tract 37 Less North 10.46 acres  
Section 17: S/2  
Section 21: W/2  
Section 28: W/2, SE/4, W/2 NE/4  
Section 29: E/2  
Section 30: W/2, SE/4  
Section 33: W/2  
Sections 18, 19, 20, 31, 32: All

Total number of acres in Participating Area: 5,840.00 acres  
Total number of acres committed to Participating Area: 5,840.00 acres

Percentage of Basic Royalty Committed: 100.00%  
Percentage of Working Interest Committed: 100.00%  
Percentage of ORRI Committed: 100.00%

\*Borne by El Paso

Effective April 1, 1975

SCHEDULE X

NINTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUA PARTICIPATIO
			OWNERSHIP	PERCENTAGE		
SF 078277	T. 29N, R. 5W Sec. 18: SW/4, W/2 NW/4, SE/4 NW/4	280.00	<u>TRACT 1</u>		12.50%	4.605263%
			Royalty;			
			Working Interest:			
			El Paso Natural Gas Co.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
			TOTAL	100.00%	100.00%	
SF 078277	T. 29N, R. 5W Sec. 7: SE/4, Lot 3	198.96	<u>TRACT 1-A</u>		12.50%	3.272368%
			Royalty;			
			Working Interest:			
			El Paso Natural Gas Co.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
			TOTAL	100.00%	100.00%	
SF 078281	T. 29N, R. 5W Sec. 17: S/2 Sec. 18: E/2 Sec. 20: N/2	960.00	<u>TRACT 2</u>		12.50%	15.789475%
			Royalty;			
			Working Interest:			
			Phillips Petroleum Co.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
			TOTAL	100.00%	100.00%	
SF 078282	T. 29N, R. 5W Sec. 19: A11 Sec. 30: SE/4 SE/4	680.00	<u>TRACT 3</u>		12.50%	11.184212%
			Royalty;			
			Working Interest:			
			El Paso Natural Gas Co.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
			TOTAL	100.00%	100.00%	

## SCHEDULE X

-2-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078282	T. 29N, R. 5W	280.00	<u>TRACT 3-A</u>			
	Sec. 29: NE/4		Royalty;	12.50%	12.50%	4.605263%
	Sec. 31: N/2 NW/4, NE/4 NE/4		Working Interest; El Paso Natural Gas Co.; ORRI;	83.00% 4.50%	83.00% 4.50%	
			TOTAL	100.00%	100.00%	
NM 011348	T. 29N, R. 5W	120.00	<u>TRACT 4-B</u>			
	Sec. 31: NE/4 SW/4, N/2 SE/4		Royalty;	12.50%	12.50%	1.973684%
			Working Interest; Tom Bolack; ORRI;	87.50% 0.00%	87.50% 0.00%	
			TOTAL	100.00%	100.00%	
NM 011348-A	T. 29N, R. 5W	80.00	<u>TRACT 4-C</u>			
	Sec. 33: E/2 NW/4		Royalty;	12.50%	12.50%	1.315789%
			Working Interest; American Pet. Co. of Tex.; ORRI;	87.50% 0.00%	87.50% 0.00%	
			TOTAL	100.00%	100.00%	
SF 078410-A	T. 29N, R. 5W	120.00	<u>TRACT 6-A</u>			
	Sec. 31: SE/4 SW/4, S/2 SE/4		Royalty;	12.50%	12.50%	1.973684%
			Working Interest; El Paso Natural Gas Co.; ORRI;	82.50% 5.00%	82.50% 5.00%	
			TOTAL	100.00%	100.00%	

Effective May 1, 1975

## SCHEDULE X

-3-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 079851	T. 29N, R. 5W Sec. 30: W/2, N/2 SE/4	400.00	TRACT 15			
			Royalty;	12.50%	12.50%	6.578948%
			Working Interest:			
			El Paso Natural Gas Co.;	83.00%	83.00%	
			ORRI;	4.50%	4.50%	
			TOTAL	100.00%	100.00%	
NM 011350-A	T. 29N, R. 5W Sec. 33: S/2 SW/4	80.00	TRACT 17-B			
			Royalty;	12.50%	12.50%	1.315789%
			Working Interest:			
			American Pet. Co. of Tex.;	87.50%	87.50%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
NM 03188	T. 29N, R. 5W Sec. 20: S/2	320.00	TRACT 21			
			Royalty;	12.50%	12.50%	5.263158%
			Working Interest:			
			El Paso Natural Gas Co.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
			TOTAL	100.00%	100.00%	
NM 03188	T. 29N, R. 5W Sec. 29: SE/4	160.00	TRACT 21-A			
			Royalty;	12.50%	12.50%	2.631579%
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

Effective May 1, 1975



## OIL AREA EXPANSION SCHEDULE

## SCHEDULE X

-4-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
NM 03188	<u>T. 29N, R. 5W</u>		<u>TRACT 21-B</u>			
	Sec. 28: N/2 NW/4, SW/4 NW/4, S/2 SW/4	200.00	Royalty; Working Interest; Phillips Petroleum Co.; ORRI;	12.50% 83.50% 4.00% <u>100.00%</u>	12.50% 83.50% 4.00% <u>100.00%</u>	3.289474%
			TOTAL			
			<u>TRACT 21-C</u>			
	T. 29N, R. 5W Sec. 21: W/2 & W/2 NE/4 & NW/4 SE/4	440.00	Royalty; Working Interest; Phillips Petroleum Co. ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	7.236842%
E-289-3	<u>T. 29N, R. 5 W</u>		<u>TRACT 22</u>			
	Sec. 32: W/2 NW/4	80.00	Royalty; Working Interest; The Wiser Oil Co.; ORRI;	12.50% 87.50% 0.00% <u>100.00%</u>	12.50% 87.50% 0.00% <u>100.00%</u>	1.315789%
			TOTAL			
			<u>TRACT 22-A</u>			
	T. 29N, R. 5W Sec. 32: E/2 SE/4	80.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	1.315789%
E-289-35	<u>T. 29N, R. 5W</u>		<u>TRACT 22-A</u>			
	Sec. 32: E/2 SE/4	80.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	1.315789%
			TOTAL			
			<u>TRACT 22-A</u>			
	T. 29N, R. 5W Sec. 32: E/2 SE/4	80.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	1.315789%

Effective May 1, 1975

SCHEDULE X

-5-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
E-289-36	T. 29N, R. 5W		TRACT 22-C			
	Sec. 32: W/2 SW/4, NE/4, SE/4 NW/4	280.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	4.605263%
	TOTAL					
			TRACT 22-D			
	Sec. 32: NE/4 NW/4	40.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	0.657895%
Fee	T. 29N, R. 5W		TRACT 24			
	Sec. 18: NE/4 NW/4	40.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 83.50% 4.00% 100.00%	12.50% 83.50% 4.00% 100.00%	0.657895%
	TOTAL					
			TRACT 24-A			
	Sec. 7: Lot 4, Tract 121.04 #37 less north 10.46 acres		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 83.50% 4.00% 100.00%	12.50% 83.50% 4.00% 100.00%	1.990789%
Fee	T. 29N, R. 5W		TRACT 24-A			
	Sec. 7: Lot 4, Tract 121.04 #37 less north 10.46 acres		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 83.50% 4.00% 100.00%	12.50% 83.50% 4.00% 100.00%	1.990789%
	TOTAL					
			TRACT 24-A			
	Sec. 7: Lot 4, Tract 121.04 #37 less north 10.46 acres		Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50% 83.50% 4.00% 100.00%	12.50% 83.50% 4.00% 100.00%	1.990789%

Effective May 1, 1975

## SCHEDULE X

-6-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Fee	T. 29N, R. 5W Sec. 21: E/2 NE/4	80.00	Royalty; Working Interest; Phillips Petroleum Co.; ORRI;	12.50%  83.50% 4.00% 100.00%	12.50%	1.315789%
	TOTAL					
	TRACT 27					
Fee	T. 29N, R. 5W Sec. 28: N/2 SW/4 & SE/4 & SE/4 NW/4 & SE/4 & SW/4 NE/4	320.00	Royalty; Working Interest; Phillips Petroleum Co.; ORRI;	12.50%  85.00% 2.50% 100.00%	12.50%	5.263158%
	TOTAL					
	TRACT 29					
Fee	T. 29N, R. 5W Sec. 30: SW/4 SE/4 Sec. 31: SE/4 NW/4 & N/2 SW/4 NW/4 & W/2 NE/4 & SE/4 NE/4	220.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;	12.50%  83.50% 4.00% 100.00%	12.50%	3.618421%
	TOTAL					
	TRACT 30					
Fee	T. 29N, R. 5W Sec. 31: W/2 SW/4 & S/2 SW/4 NW/4	100.00	Royalty; Working Interest; El Paso Natural Gas Co.; American Pet. Co. of Tex.; ORRI;	12.50%  58.59% 21.88% 7.03% 100.00%	12.50%	1.644737%
	TOTAL					
	TRACT 33					

Effective May 1, 1975

Form NUP 1506 (8/74)

UNIT AREA EXPANSION SCHEDULE

SCHEDULE X

-7-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Fee	T. 29N, R. 5W Sec. 32: E/2 SW/4 & 160.00 W/2 SE/4		TRACT 34			
	Royalty;			12.50%	12.50%	2.631579%
	Working Interest:					
	Amoco Production Co.;			87.50%	87.50%	
	ORRI;			0.00%	0.00%	
	TOTAL			100.00%	100.00%	
			TRACT 35			
Fee	T. 29N, R. 5W Sec. 33: W/2 NW/4 & 160.00 N/2 SW/4					
	Royalty;			12.5000%	12.5000%	2.631579%
	Working Interest:					
	T. H. McElvain Estate-1/4			20.6250%	20.6250%	
	Ruth M. Vaughan-1/6			13.7500%	13.7500%	
	Carl R. McElvain Estate-1/6			13.7500%	13.7500%	
	J. Wm. McElvain-1/6			13.7500%	13.7500%	
	Mabelle M. Miller,-1/4			20.6250%	20.6250%	
	Individually & Independent					
	Executrix of the Estate of					
	Forrest B. Miller					
	ORRI;			5.0000%	5.0000%	
	TOTAL			100.0000%	100.0000%	
			TRACT 37			
Fee	T. 29N, R. 5W Sec. 21: SW/4 SE/4 80.00 Sec. 28: NW/4 NE/4					
	Royalty;			12.50%	12.50%	1.315789%
	Working Interest:					
	Phillips Petroleum Co.;			87.50%	87.50%	
	ORRI;			0.00%	0.00%	
	TOTAL			100.00%	100.00%	

Effective May 1, 1975

## SCHEDULE X

-8-

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

RECAPITULATION

Description of lands in Participating Area:

Township 29 North, Range 5 West, N. M. P. M.  
Section 7: SE/4 & Lots 3,4, Tract 37 Less North 10.46 acres  
Section 17: S/2  
Section 21: W/2 & NE/4 & W/2 SE/4  
Section 28: W/2 & SE/4 & W/2 NE/4  
Section 29: E/2  
Section 30: W/2 & SE/4  
Section 33: W/2  
Sections 18, 19, 20, 31, 32: All

Total number of acres in Participating Area: 6,080.00 acres  
Total number of acres committed to Participating Area: 6,080.00 acres

Percentage of Basic Royalty Committed: 100.00%  
Percentage of Working Interest Committed: 100.00%  
Percentage of ORRI Committed: 100.00%

\* Borne by El Paso

Effective May 1, 1975

SCHEDULE XI

TENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078277	T. 29N, R. 5W Sec. 18: SW/4, W/2 NW/4, SE/4 NW/4	280.00	<u>TRACT 1</u>		12.50%	4.375000%
			Royalty;			
			Working Interest:		83.50%	
			El Paso Natural Gas Co.;	4.00%	4.00%	
			ORRI;	100.00%	100.00%	
	TOTAL					
SF 078277	T. 29N, R. 5W Sec. 7: SE/4, Lot 3	198.96	<u>TRACT 1-A</u>		12.50%	3.108750%
			Royalty;			
			Working Interest:		83.50%	
			El Paso Natural Gas Co.;	4.00%	4.00%	
			ORRI;	100.00%	100.00%	
	TOTAL					
SF 078281	T. 29N, R. 5W Sec. 17: S/2 Sec. 18: E/2 Sec. 20: N/2	960.00	<u>TRACT 2</u>		12.50%	15.000000%
			Royalty;			
			Working Interest:		83.50%	
			Phillips Petroleum Co.;	4.00%	4.00%	
			ORRI;	100.00%	100.00%	
	TOTAL					
SF 078282	T. 29N, R. 5W Sec. 19: All Sec. 30: SE/4 SE/4	680.00	<u>TRACT 3</u>		12.50%	10.625000%
			Royalty;			
			Working Interest:		83.50%	
			El Paso Natural Gas Co.;	4.00%	4.00%	
			ORRI;	100.00%	100.00%	
	TOTAL					

## SCHEDULE XI

-2-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078282	T. 29N. R. 5W	280.00	<u>TRACT 3-A</u>			
	Sec. 29: NE/4		Royalty;	12.50%	12.50%	4.375000%
	Sec. 31: N/2 NW/4,		Working Interest:			
	NE/4 NE/4		El Paso Natural Gas Co.;	83.00%	83.00%	
			ORRI;	4.50%	4.50%	
			TOTAL	100.00%	100.00%	
NM 011348	T. 29N, R. 5W	120.00	<u>TRACT 4-B</u>			
	Sec. 31: NE/4 SW/4,		Royalty;	12.50%	12.50%	1.875000%
	N/2 SE/4		Working Interest:			
			Tom Bolack;	87.50%	87.50%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
NM 011348-A	T. 29N, R. 5W	80.00	<u>TRACT 4-C</u>			
	Sec. 33: E/2 NW/4		Royalty;	12.50%	12.50%	1.250000%
			Working Interest:			
			American Pet. Co. of Tex.;	87.50%	87.50%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
SF 078410-A	T. 29N, R. 5W	120.00	<u>TRACT 6-A</u>			
	Sec. 31: SE/4 SW/4,		Royalty;	12.50%	12.50%	1.875000%
	S/2 SE/4		Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

Effective June 1, 1975

## SCHEDULE XI

-3-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUA PARTICIPATIO
			OWNERSHIP	PERCENTAGE		
SF 079851	T. 29N, R. 5W Sec. 30: W/2, N/2 SE/4	400.00	<u>TRACT 15</u>			
			Royalty;	12.50%	12.50%	6.2500000%
			Working Interest;			
			El Paso Natural Gas Co.;	83.00%	83.00%	
			ORRI;	4.50%	4.50%	
			TOTAL	100.00%	100.00%	
NM 011350-A	T. 29N, R. 5W Sec. 33: S/2 SW/4	80.00	<u>TRACT 17-B</u>			
			Royalty;	12.50%	12.50%	1.2500000%
			Working Interest;			
			American Pet. Co. of Tex.;	87.50%	87.50%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
NM 03188	T. 29N, R. 5W Sec. 20: S/2	320.00	<u>TRACT 21</u>			
			Royalty;	12.50%	12.50%	5.0000000%
			Working Interest;			
			El Paso Natural Gas Co.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
			TOTAL	100.00%	100.00%	
NM 03188	T. 29N, R. 5W Sec. 29: SE/4	160.00	<u>TRACT 21-A</u>			
			Royalty;	12.50%	12.50%	2.5000000%
			Working Interest;			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

Effective June 1, 1975



## IT AREA EXPANSION SCHEDULE

## SCHEDULE XI

-4-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
NM 03188	T. 29N, R. 5W Sec. 28: N/2 NW/4, SW/4 NW/4, S/2 SW/4	200.00	TRACT 21-B			
			Royalty;	12.50%	12.50%	3.125000%
			Working Interest:			
			Phillips Petroleum Co.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
			TOTAL	100.00%	100.00%	
NM 03188	T. 29N, R. 5W Sec. 21: W/2 & W/2 NE/4 & NW/4 SE/4	440.00	TRACT 21-C			
			Royalty;	12.50%	12.50%	6.875000%
			Working Interest:			
			Phillips Petroleum Co.	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
E-289-3	T. 29N, R. 5 W Sec. 32: W/2 NW/4	80.00	TRACT 22			
			Royalty;	12.50%	12.50%	1.250000%
			Working Interest:			
			The Wiser Oil Co.;	87.50%	87.50%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
E-289-35	T. 29N, R. 5W Sec. 32: E/2 SE/4	80.00	TRACT 22-A			
			Royalty;	12.50%	12.50%	1.250000%
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

Effective June 1, 1975

## SCHEDULE XI

-5-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
E-289-36	T. 29N, R. 5W Sec. 32: W/2 SW/4, NE/4, SE/4 NW/4	280.00	<u>TRACT 22-C</u>		12.50%	4.375000%
			Royalty;			
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
	TOTAL			100.00%	100.00%	
E-289-31	T. 29N, R. 5W Sec. 32: NE/4 NW/4	40.00	<u>TRACT 22-D</u>		12.50%	0.625000%
			Royalty;			
			Working Interest:			
			El Paso Natural Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
	TOTAL			100.00%	100.00%	
Fee	T. 29N, R. 5W Sec. 18: NE/4 NW/4	40.00	<u>TRACT 24</u>		12.50%	0.625000%
			Royalty;			
			Working Interest:			
			El Paso Natural Gas Co.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
	TOTAL			100.00%	100.00%	
Fee	T. 29N, R. 5W Sec. 7: Lot 4, Tract 121.04 #37 less north 10.46 acres	121.04	<u>TRACT 24-A</u>		12.50%	1.891250%
			Royalty;			
			Working Interest:			
			El Paso Natural Gas Co.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
	TOTAL			100.00%	100.00%	

Effective June 1, 1975

## SCHEDULE XI

-6-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Fee	T. 29N, R. 5W					
	Sec. 21: E/2 NE/4	159.00	Royalty;	12.50%	12.50%	2.484375%
	Sec. 22: W/2 NW/4		Working Interest;			
	(less one acre )		Phillips Petroleum Co.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
	TOTAL			100.00%	100.00%	
<u>TRACT 27</u>						
Fee	T. 29N, R. 5W					
	Sec. 22: One acre	1.00	Royalty;	12.50%	12.50%	0.015625%
	out of SW corner of		Working Interest;			
	W/2 NW/4		Phillips Petroleum Co.;	87.50%	87.50%	
			ORRI;	0.00%	0.00%	
	TOTAL			100.00%	100.00%	
<u>TRACT 27-A</u>						
Fee	T. 29N, R. 5W					
	Sec. 28: N/2 SW/4 &	320.00	Royalty;	12.50%	12.50%	5.000000%
	SE/4 NW/4 & SE/4 &		Working Interest;			
	SW/4 NE/4		Phillips Petroleum Co.;	85.00%	85.00%	
			ORRI;	2.50%	2.50%	
	TOTAL			100.00%	100.00%	
<u>TRACT 29</u>						
Fee	T. 29N, R. 5W					
	Sec. 30: SW/4 SE/4	220.00	Royalty;	12.50%	12.50%	3.437500%
	SE/4 NW/4 &		Working Interest;			
	N/2 SW/4 NW/4 & W/2 NE/4 &		E1 Paso Natural Gas Co.;	83.50%	83.50%	
	SE/4 NE/4		ORRI;	4.00%	4.00%	
	TOTAL			100.00%	100.00%	
<u>TRACT 30</u>						

Effective June 1, 1975

SCHEDULE XI

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Effective June 1, 1975

## SCHEDULE XI

-8-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Fee	T. 29N, R. 5W		<u>TRACT 37</u>			
	Sec. 21: SW/4 SE/4	80.00	Royalty;	12.50%	12.50%	1.250000%
	Sec. 28: NW/4 NE/4		Working Interest;			
			Phillips Petroleum Co.;	87.50%	87.50%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
Fee	T. 29N, R. 5W		<u>TRACT 38</u>			
	Sec. 22: SW/4 less	238.00	Royalty;	12.50%	12.50%	3.71875%
	two acres out of		Working Interest;			
	NE/4 SW/4 & E/2 NW/4		Phillips Petroleum Co.;	87.50%	87.50%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
Fee	Beginning at NW	2.00	<u>TRACT 38-B</u>			
	corner of N/2 SE/4 of		Royalty;	12.50%	12.50%	0.031250%
	Sec. 22, T-29-N, R-5-W,		Working Interest;			
	thence 420' South, thence		Phillips Petroleum Co.;	87.50%	87.50%	
	210' West, thence 420' North,		ORRI;	0.00%	0.00%	
	thence 210' East to place of beginning		TOTAL	100.00%	100.00%	

## UNIT AREA EXPANSION SCHEDULE

## SCHEDULE XI

-9-

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

RECAPITULATION

Description of lands in Participating Area:

Township 29 North, Range 5 West, N.M.P.M.

Section 7: SE/4 &amp; Lots 3, 4, Tract 37 Less North 10.46 acres

Section 17: S/2

Section 21: W/2 &amp; NE/4 &amp; W/2 SE/4

Section 22: W/2

Section 28: W/2 &amp; SE/4 &amp; W/2 NE/4

Section 29: E/2

Section 30: W/2 &amp; SE/4

Section 33: W/2

Sections 18, 19, 20, 31, 32: All

Total number of acres in Participating Area: 6,400.00

Total number of acres committed to Participating Area: 6,400.00

Percentage of Basic Royalty Committed: 100.00%

Percentage of Working Interest Committed: 100.00%

Percentage of ORRI Committed: 100.00%

\* Borne by El Paso

Effective June 1, 1975

SHARPST PEARLIE CORPORATION  
IT AREA EXPANSION SCHEDULE

SCHEDULE XII

ELEVENTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
					PERCENTAGE		
SF 078277	T. 29N, R. 5W	280.00		<u>TRACT 1</u>			
	Sec. 18: SW/4,		Royalty;		12.50%	12.50%	4.166667%
	W/2 NW/4, SE/4		Working Interest:		83.50%	83.50%	
	NW/4		El Paso Natural Gas Co.; ORRI;		<u>4.00%</u>	<u>4.00%</u>	
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	
				<u>TRACT 1-A</u>			
SF 078277	T. 29N, R. 5W	198.96					
	Sec. 7: SE/4,		Royalty;		12.50%	12.50%	2.960714%
	Lot 3		Working Interest:		83.50%	83.50%	
			El Paso Natural Gas Co.; ORRI;		<u>4.00%</u>	<u>4.00%</u>	
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	
				<u>TRACT 2</u>			
SF 078281	T. 29N, R. 5W	960.00					
	Sec. 17: S/2		Royalty;		12.50%	12.50%	14.285715%
	Sec. 18: E/2		Working Interest:		83.50%	83.50%	
	Sec. 20: N/2		Phillips Petroleum Co.; ORRI;		<u>4.00%</u>	<u>4.00%</u>	
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	
				<u>TRACT 3</u>			
SF 078282	T. 29N, R. 5W	680.00					
	Sec. 19: A11		Royalty;		12.50%	12.50%	10.119049%
	Sec. 30: SE/4 SE/4		Working Interest:		83.50%	83.50%	
			El Paso Natural Gas Co.; ORRI;		<u>4.00%</u>	<u>4.00%</u>	
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	

# JN1T AREA EXPANSION SCHEDULE

-2-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
SF 078282	T. 29N, R. 5W			TRACT 3-A			
	Sec. 29: NE/4	280.00	Royalty;		12.50%	12.50%	4.166667%
	Sec. 31: N/2 NW/4 & NE/4 NE/4		Working Interest; El Paso Natural Gas Co.; ORRI;		83.00% <u>4.50%</u>	83.00% <u>4.50%</u>	
	TOTAL				100.00%	100.00%	
NM 011348	T. 29N, R. 5W			TRACT 4-B			
	Sec. 31: NE/4 SW/4 & 120.00 N/2 SE/4		Royalty;		12.50%	12.50%	1.785714%
			Working Interest; Tom Bolack; ORRI;		87.50% <u>0.00%</u>	87.50% <u>0.00%</u>	
	TOTAL				100.00%	100.00%	
NM 011348-A	T. 29N, R. 5W			TRACT 4-C			
	Sec. 33: E/2 NW/4	80.00	Royalty;		12.50%	12.50%	1.190476%
			Working Interest; American Pet. Co. of Tex.; ORRI;		87.50% <u>0.00%</u>	87.50% <u>0.00%</u>	
	TOTAL				100.00%	100.00%	
SF 078410-A	T. 29N, R. 5W			TRACT 6-A			
	Sec. 31: SE/4	120.00	Royalty;		12.50%	12.50%	1.785714%
	SW/4 & S/2 SE/4		Working Interest; El Paso Natural Gas Co.; ORRI;		82.50% <u>5.00%</u>	82.50% <u>5.00%</u>	
	TOTAL				100.00%	100.00%	
SF 078917	T. 29N, R. 5W			TRACT 12			
	Sec. 26: W/2	320.00	Royalty;		12.50%	12.50%	4.761905%
			Working Interest; Phillips Petroleum Co.; ORRI;		82.50% <u>5.00%</u>	82.50% <u>5.00%</u>	
	TOTAL				100.00%	100.00%	

Effective July 1, 1975



UNIT AREA EXPANSION SCHEDULE

SCHEDULE XII

-3-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 15</u>							
SF 079851	<u>T. 29N, R. 5W</u> Sec. 30: W/2, N/2 SE/4	400.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;		12.50% 83.00% 4.50%	12.50% 83.00% 4.50%	5.952381%
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 17-B</u>							
NM 011350-A	<u>T. 29N, R. 5W</u> Sec. 33: S/2 SW/4	80.00	Royalty; Working Interest; American Pet. Co. of Tex.; ORRI;		12.50% 87.50% 0.00%	12.50% 87.50% 0.00%	1.190476%
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 21</u>							
NM 03188	<u>T. 29N, R. 5W</u> Sec. 20: S/2	320.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;		12.50% 83.50% 4.00%	12.50% 83.50% 4.00%	4.761905%
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	
<u>TRACT 21-A</u>							
NM 03188	<u>T. 29N, R. 5W</u> Sec. 29: SE/4	160.00	Royalty; Working Interest; El Paso Natural Gas Co.; ORRI;		12.50% 82.50% 5.00%	12.50% 82.50% 5.00%	2.380952%
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	

CRITICWEST PETROLEUM CORPORATION  
NIT AREA EXPANSION SCHEDULE

SCHEDULE XII

-4-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
NM 03188	<u>T. 29N, R. 5W</u> Sec. 28: N/2 NW/4, SW/4 NW/4, S/2 SW/4	200.00	<u>TRACT 21-B</u> Royalty; Working Interest: Phillips Petroleum Co.; ORRI; TOTAL	12.50%	12.50%	2.976190%
				83.50%	83.50%	
				<u>4.00%</u>	<u>4.00%</u>	
				<u>100.00%</u>	<u>100.00%</u>	
	<u>T. 29N, R. 5W</u> Sec. 21: W/2 & W/2 NE/4 & NW/4 SE/4	440.00	<u>TRACT 21-C</u> Royalty; Working Interest: Phillips Petroleum Co. ORRI; TOTAL	12.50%	12.50%	6.547619%
				82.50%	82.50%	
				<u>5.00%</u>	<u>5.00%</u>	
				<u>100.00%</u>	<u>100.00%</u>	
E-289-3	<u>T. 29N, R. 5 W</u> Sec. 32: W/2 NW/4	80.00	<u>TRACT 22</u> Royalty; Working Interest: The Wiser Oil Co.; ORRI; TOTAL	12.50%	12.50%	1.190476%
				87.50%	87.50%	
				<u>0.00%</u>	<u>0.00%</u>	
				<u>100.00%</u>	<u>100.00%</u>	
	<u>T. 29N, R. 5W</u> Sec. 32: E/2 SE/4	80.00	<u>TRACT 22-A</u> Royalty; Working Interest: El Paso Natural Gas Co.; ORRI; TOTAL	12.50%	12.50%	1.190476%
				82.50%	82.50%	
				<u>5.00%</u>	<u>5.00%</u>	
				<u>100.00%</u>	<u>100.00%</u>	

Effective July 1, 1975

WEST PIPELINE CORPORATION  
 IT AREA EXPANSION SCHEDULE

SCHEDULE XII

-5-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
E-289-36	<u>T. 29N, R. 5W</u>		<u>TRACT 22-C</u>				
	Sec. 32: W/2 SW/4, NE/4, SE/4 NW/4	280.00	Royalty;	12.50%	12.50%	4.166667%	
			Working Interest;				
			El Paso Natural Gas Co.;	82.50%	82.50%		
			ORRI;	5.00%	5.00%		
			TOTAL	100.00%	100.00%		
	<u>TRACT 22-D</u>						
	<u>T. 29N, R. 5W</u>		Royalty;	12.50%	12.50%	0.595238%	
	Sec. 32: NE/4 NW/4	40.00	Working Interest;				
			El Paso Natural Gas Co.;	82.50%	82.50%		
Fee	<u>T. 29N, R. 5W</u>		<u>TRACT 24</u>				
	Sec. 18: NE/4 NW/4	40.00	Royalty;	12.50%	12.50%	0.595238%	
			Working Interest;				
			El Paso Natural Gas Co.;	83.50%	83.50%		
			ORRI;	4.00%	4.00%		
			TOTAL	100.00%	100.00%		
	<u>TRACT 24-A</u>						
	<u>T. 29N, R. 5W</u>		Royalty;	12.50%	12.50%	1.801190%	
	Sec. 7: Lot 4, Tract 121.04 #37 less north		Working Interest;				
	10.46 acres		El Paso Natural Gas Co.;	83.50%	83.50%		
Fee			ORRI;	4.00%	4.00%		
			TOTAL	100.00%	100.00%		

117 AREA EXPANSION SCHEDULE

SCHEDULE XII

-6-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
Fee	<u>T. 29N, R. 5W</u>			<u>TRACT 27</u>			
	Sec. 21: E/2 NE/4	159.00	Royalty;		12.50%	12.50%	2.366071%
	Sec. 22: W/2 NW/4		Working Interest;				
	(less one acre)		Phillips Petroleum Co.;		83.50%	83.50%	
			ORRI;		<u>4.00%</u>	<u>4.00%</u>	
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	
Fee	<u>T. 29N, R. 5W</u>			<u>TRACT 27-A</u>			
	Sec. 22: one acre	1.00	Royalty;		12.50%	12.50%	0.014881
	out of SW corner of		Working Interest;				
	W/2 NW/4		Phillips Petroleum Co.;		87.50%	87.50%	
			ORRI;		<u>0.00%</u>	<u>0.00%</u>	
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	
Fee	<u>T. 29N, R. 5W</u>			<u>TRACT 29</u>			
	Sec. 28: N/2 SW/4 &	320.00	Royalty;		12.50%	12.50%	4.761905%
	SE/4 NW/4 & SE/4 &		Working Interest;				
	SW/4 NE/4		Phillips Petroleum Co.;		85.00%	85.00%	
			ORRI;		<u>2.50%</u>	<u>2.50%</u>	
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	
Fee	<u>T. 29N, R. 5W</u>			<u>TRACT 30</u>			
	Sec. 30: SW/4 SE/4	220.00	Royalty;		12.50%	12.50%	3.273810%
	Sec. 31: SE/4 NW/4 & N/2		Working Interest;				
	SW/4 NW/4 & W/2 NE/4 &		El Paso Natural Gas Co.;		83.50%	83.50%	
	SE/4 NE/4		ORRI;		<u>4.00%</u>	<u>4.00%</u>	
			TOTAL		<u>100.00%</u>	<u>100.00%</u>	

**NORTHWEST PIPELINE CORPORATION**  
INIT AREA EXPANSION SCHEDULE

SCHEDULE XII

-7-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
TRACT 33							
Fee	T. 29N, R. 5W Sec. 31: W/2 SW/4 & 100.00 S/2 SW/4 NW/4		Royalty; Working Interest; El Paso Natural Gas Co.; American Pet. Co. of Tex.; ORRI;	12.50% 58.59% 21.88% 7.03% *	12.50% 58.59% 21.88% 7.03% *	1.488095%	
			TOTAL	100.00%	100.00%		
TRACT 34							
Fee	T. 29N, R. 5W Sec. 32: E/2 SW/4 & 160.00 W/2 SE/4		Royalty; Working Interest; Amoco Production Co.; ORRI;	12.50% 87.50% 0.00%	12.50% 87.50% 0.00%	2.380952%	
			TOTAL	100.00%	100.00%		
TRACT 35							
Fee	T. 29N, R. 5W Sec. 33: W/2 NW/4 & 160.00 N/2 SW/4		Royalty; Working Interest; T. H. McElvain Estate-1/4 Ruth M. Vaughan-1/6 Carl R. McElvain Estate-1/6 J. Wm. McElvain-1/6 Mabelle M. Miller, -1/4 Individually & Independent Executrix of the Estate of Forrest R. Miller ORRI;	12.5000% 20.6250% 13.7500% 13.7500% 13.7500% 20.6250%	12.5000% 20.6250% 13.7500% 13.7500% 13.7500% 20.6250%	2.380952%	
			TOTAL	100.0000%	100.0000%		

## 417 AREA EXPANSION SCHEDULE

## SCHEDULE XII

-8-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
Fee	T. 29N, R. 5W			TRACT 37			
	Sec. 21: SW/4 SE/4	80.00	Royalty; Working Interest;		12.50%	12.50%	1.190476%
	Sec. 28: NW/4 NE/4		Phillips Petroleum Co.; ORRI;		87.50% 0.00%	87.50% 0.00%	
			TOTAL		100.00%	100.00%	
Fee	T. 29N, R. 5W			TRACT 38			
	Sec. 22: SW/4 less two acres out of NE/4 SW/4 & E/2 NW/4	238.00	Royalty; Working Interest;		12.50%	12.50%	3.541667%
			Phillips Petroleum Co.; ORRI;		87.50% 0.00%	87.50% 0.00%	
			TOTAL		100.00%	100.00%	
Fee	Beginning at NW corner of N/2 SE/4 of Sec. 22, T-29-N, R-5-W, thence 420' South, thence 210' West, thence 420' North, thence 210' East to place of beginning	2.00	Royalty; Working Interest; Phillips Petroleum Co.; ORRI;	TRACT 38-B	12.50%	12.50%	0.029762%
			TOTAL		100.00%	100.00%	

CONTINENTAL PETROLEUM CORPORATION  
NIT AREA EXPANSION SCHEDULE

SCHEDULE XII

-9-

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

Description of Lands in Participating Area:

Township 29 North, Range 5 West, N. M. P. M.  
 Section 7: SE/4 & Lots 3, 4, Tract 37 Less North 10.46 acres  
 Section 17: S/2  
 Section 21: W/2 & NE/4 & W/2 SE/4  
 Section 22: W/2  
 Section 26: W/2  
 Section 28: W/2 & SE/4 & W/2 NE/4  
 Section 29: E/2  
 Section 30: W/2 & SE/4  
 Section 33: W/2  
 Sections 18, 19, 20, 31, 32: All

Total number of acres in Participating Area: 6,720.00  
 Total number of acres committed to Participating Area: 6,720.00

Percentage of Basic Royalty Committed: 100.00%  
 Percentage of Working Interest Committed: 100.00%  
 Percentage of ORRI Committed: 100.00%

\* Borne by El Paso

Effective July 1, 1975

Northwest Pipeline Corporation



JOHN M. PARKER  
DIRECTOR OF EXPLORATION

ONE PARK CENTRAL, SUITE 1487  
DENVER, COLORADO 80202  
303-623-9303

April 22, 1975

Mr. Carl C. Traywick  
Acting Area Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
Attention: Mr. Ray D. Graham  
Post Office Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. A. L. Porter, Jr.  
Post Office Box 2088  
Santa Fe, New Mexico 87501

RE: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
TWENTY-SECOND EXPANDED  
PARTICIPATING AREA  
Mesaverde Formation  
Effective January 1, 1975

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 29-5 Unit Agreement No. 14-08-001-437, Northwest Pipeline Corporation, as Unit Operator, determined on the test date set out below that the following well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit:

The San Juan 29-5 Unit No. 61 well is located 1520' from the North line and 900' from the East line, Section 9, Township 29 North, Range 05 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on November 24, 1974 and completed on January 21, 1975 in the Mesaverde formation at a total depth of 6239'. The Mesaverde formation was perforated with one (1) shot per zone at 5654', 5666', 5676', 5970', 5980', 5992', 6002', 6018', 6038', 6102', 6114', 6142', 6180'. On December 9, 1974, these perforations were treated with 1000 gallons of hydrochloric acid followed by sand-water fracturing. The well was shut-in on January 14, 1975 and after being shut in for seven (7) days, the well was tested on January 21, 1975 with SIPC of 924 psia and SIPT of 625 psia. After flowing for three (3) hours through a 3/4" positive choke on 2 3/8" tubing, the well gauged 1092 MCFGPD with a calculated Absolute Open Flow of 1253 MCFGPD.



Acting Area Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
April 22, 1975  
Page 2

As a result of the completion of this well, the Participating Area for the Mesaverde Formation should be expanded as follows:

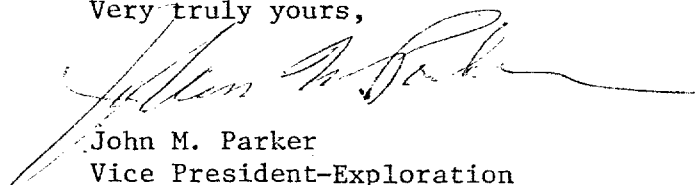
TWENTY-SECOND EXPANDED PARTICIPATING AREA --- Effective January 1, 1975

<u>Drilling Block</u>	<u>Acres</u>	<u>Well No.</u>
T-29-N, R-5-W	320	San Juan 29-5
Sec. 9: E/2		Unit #61

Attached is Schedule XXIII showing the Expanded Participating Area for the Mesaverde Formation of the San Juan 29-5 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor; and, in the absence of disapproval, this Twenty-Second Expanded Participating Area will become effective as of January 1, 1975.

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

Very truly yours,

  
John M. Parker  
Vice President-Exploration

BRB:ml1  
Attachments

SAN JUAN 29-5 UNIT

Working Interest Owners

Sun Oil Company  
Attention: V. M. Williams  
P.O. Box 2880  
Dallas, TX 75221

Phillips Petroleum Company  
Attention: Mr. N. N. Beckner  
1000 Security Life Building  
Denver, CO 80202

Mr. Forrest B. Miller and  
Mabelle M. Miller  
1224 Lois Street  
P. O. Box 1445  
Kerrville, TX 78028

Koch Industries, Inc.  
P. O. Box 2256  
Wichita, KS 67201

General American Oil Company  
of Texas  
Attention: Mr. L. E. Dooley  
Meadows Building  
Dallas, TX 75206

Amoco Production Company  
Attention: Mr. T. M. Curtis  
Security Life Building  
Denver, CO 80202

The Wiser Oil Company  
P. O. Box 2467  
Hobbs, NM 88240

Mr. J. William McElvain  
310 East Jefferson Street  
Morris, IL 60450

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

Mr. James E. McElvain, Executor for  
the Estate of Carl R. McElvain, Deceased  
309 West Jefferson Street  
Morris, IL 60450

Mrs. Catherine B. McElvain,  
Individually and as Executrix of the  
Estate of T. H. McElvain, Deceased  
Box 2148  
Santa Fe, NM 87501

Mr. Tom Bolack  
1010 North Dustin Drive  
Farmington, NM 87401

American Petrofina Company of Texas  
P. O. Box 2159  
Dallas, TX 75221

Ruth M. Vaughan  
300 Caversham Road  
Bryn Mawr, PN 19010

UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXIII  
TWENTY-SECOND EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUA PARTICIPATIO
			OWNERSHIP	PERCENTAGE		
SF 078277	T-29-N, R-5-W	788.50				<u>5.535384%</u>
	Sec. 7: E/2, Lots 1, 2, 3, N/2 NW/4		Royalty; Working Interest: Northwest Pipeline Corp.;	12.50%	12.50%	
	Sec. 18: SW/4, W/2 NW/4, SE/4 NW/4		ORRI;	83.50% <u>4.00%</u>	83.50% <u>4.00%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
	TRACT 1					
SF 078281	T-29-N, R-5-W	1,280.00				<u>8.985786%</u>
	Sec. 17: All		Royalty;	12.50%	12.50%	
	Sec. 18: E/2		Working Interest:			
	Sec. 20: N/2		Northwest Pipeline Corp.;	83.50% <u>4.00%</u>	83.50% <u>4.00%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
TRACT 2						
SF 078282	T-29-N, R-5-W	680.00				<u>4.773699%</u>
	Sec. 19: All		Royalty;	12.50%	12.50%	
	Sec. 30: SE/4 SE/4		Working Interest:			
			Northwest Pipeline Corp.;	83.50% <u>4.00%</u>	83.50% <u>4.00%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
TRACT 3						

Effective January 1, 1975

## UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
			OWNERSHIP	PERCENTAGE		
SF 078282	T-29-N, R-5-W	600.00				
	Sec. 29: N/2, SW/4		Royalty;	12.50%	12.50%	4.212087%
	Sec. 31: NE/4 NE/4,		Working Interest:			
	N/2 NW/4		Northwest Pipeline Corp.;	83.00%	83.00%	
			ORRI;	4.50%	4.50%	
	TOTAL			100.00%	100.00%	
<u>TRACT 3-A</u>						
SF 078305	T-29-5-N, R-5-W	320.00				
	Sec. 6: SW/4		Royalty;	12.50%	12.50%	2.246446%
	Sec. 8: SE/4		Working Interest:			
			Northwest Pipeline Corp.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
	TOTAL			100.00%	100.00%	
<u>TRACT 4</u>						
NM 011348	T-29-N, R-5-W	80.00				
	Sec. 33: W/2 NE/4		Royalty;	12.50%	12.50%	0.561612%
			Working Interest:			
			El Paso Natural Gas Co.;	41.25%	41.25%	
			Tom Bolack;	41.25%	41.25%	
	TOTAL		ORRI;	5.00%	5.00%	
				100.00%	100.00%	
<u>TRACT 4-A</u>						

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Effective January 1, 1975

SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU/ PARTICIPATI
			OWNERSHIP	PERCENTAGE		
NM 011348	T-29-N, R-5-W Sec. 31: N/2 SE/4, NE/4 SW/4	120.00	TRACT 4-B			
			Royalty;	12.50%	12.50%	
			Working Interest:			
			Tom Bolack;	87.50%	87.50%	
			TOTAL	100.00%	100.00%	0.842417%
NM 011348-A	T-29-N, R-5-W Sec. 33: E/2 NW/4	80.00	TRACT 4-C			
			Royalty;	12.50%	12.50%	
			Working Interest:			
			American Petrofina Co. of Texas;	87.50%	87.50%	
			TOTAL	100.00%	100.00%	0.561612%
SF 078343	T-29-N, R-5-W Sec. 5: Lots 1,2,3, 4, S/2 N/2	322.24	TRACT 5			
			Royalty;	12.50%	12.50%	
			Working Interest:			
			Northwest Pipeline Corp.; ORRI;	83.00%	83.00%	
			TOTAL	4.50%	4.50%	
				100.00%	100.00%	2.262172%

SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078410	T-29-N, R-5-W	640.88				
	Sec. 6: Lots 1,2,3, 4, S/2 N/2, SE/4		Royalty; Working Interest: Northwest Pipeline Corp.;	12.50%	12.50%	<u>4.499071%</u>
	Sec. 8: NE/4		ORRI;	82.50%	82.50%	
			TOTAL	5.00%	5.00%	
					100.00%	100.00%
SF 078410-A	T-29-N, R-5-W	120.00				
	Sec. 31: S/2 SE/4, SE/4 SW/4		Royalty; Working Interest: El Paso Nat. Gas Co.;	12.50%	12.50%	<u>0.842417%</u>
			ORRI;	82.50%	82.50%	
			TOTAL	5.00%	5.00%	
					100.00%	100.00%
SF 078410	T-29-N, R-5-W	160.00				
	Sec. 8: NW/4		Royalty; Working Interest: Northwest Pipeline Corp.;	12.50%	12.50%	<u>1.123223%</u>
			ORRI;	82.50%	82.50%	
			TOTAL	5.00%	5.00%	
					100.00%	100.00%

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Effective January 1, 1975

## UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078412	T-29-N, R-5-W Sec. 34: SE/4 SW/4, S/2 SE/4, NE/4 SE/4, SE/4 NE/4	200.00	TRACT 7			
			Royalty;	12.50%	12.50%	<u>1.404029%</u>
			Working Interest;			
			E1 Paso Nat. Gas. Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
TOTAL	100.00%	100.00%				
SF 078642	T-29-N, R-5-W Sec. 5: N/2 SW/4, SE/4 Sec. 9: SE/4	400.00	TRACT 8			
			Royalty;	12.50%	12.50%	<u>2.808058%</u>
			Working Interest;			
			Northwest Pipeline Corp.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
TOTAL	100.00%	100.00%				
SF 078917	T-29-N, R-5-W Sec. 26: W/2 Sec. 35: W/2	640.00	TRACT 12			
			Royalty;	12.50%	12.50%	<u>4.492893%</u>
			Working Interest;			
			Northwest Pipeline Corp.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
TOTAL	100.00%	100.00%				

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SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
			OWNERSHIP	PERCENTAGE		
SF 079033	T-29-N, R-5-W Sec. 23: W/2	320.00	TRACT 13			
			Royalty;	12.50%	12.50%	2.246446%
			Working Interest:			
			El Paso Nat. Gas. Co.;	84.50%	84.50%	
			ORRI;	3.00%	3.00%	
			TOTAL	100.00%	100.00%	
SF 079851	T-29-N, R-5-W Sec. 30: N/2, N/2 S/2, S/2 SW/4	560.00	TRACT 15			
			Royalty;	12.50%	12.50%	3.931281%
			Working Interest:			
			Northwest Pipeline Corp.;	83.00%	83.00%	
			ORRI;	4.50%	4.50%	
			TOTAL	100.00%	100.00%	
SF 079944	T-29-N, R-5-W Sec. 22: S/2 SE/4	80.00	TRACT 16			
			Royalty;	12.50%	12.50%	0.561612%
			Working Interest:			
			Northwest Pipeline Corp.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

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SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATIO
			OWNERSHIP	PERCENTAGE		
NM 011349	T-29-N, R-5-W Sec. 27: SW/4	160.00	<u>TRACT 16-A</u>			<u>1.123223%</u>
			Royalty;	12.50%	12.50%	
			Working Interest:			
			El Paso Nat. Gas Co.;	41.25%	41.25%	
			Tom Bolack;	41.25%	41.25%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
NM 011349-A	T-29-N, R-5-W Sec. 27: S/2 NW/4, NE/4	240.00	<u>TRACT 16-B</u>			<u>1.684835%</u>
			Royalty;	12.50%	12.50%	
			Working Interest:			
			Amer. Petrofina Co. of Texas	87.50%	87.50%	
			TOTAL	100.00%	100.00%	
NM 011349-B	T-29-N, R-5-W Sec. 27: SE/4	160.00	<u>TRACT 16-C</u>			<u>1.123223%</u>
			Royalty;	12.50%	12.50%	
			Working Interest:			
			El Paso Nat. Gas Co.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

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## UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 080069	T-29-N, R-5-W	400.00	<u>TRACT 17</u>			
	Sec. 5: S/2 SW/4		Royalty;	12.50%	12.50%	<u>2.808058%</u>
	Sec. 9: SW/4		Working Interest;			
	Sec. 15: SW/4		Northwest Pipeline Corp.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
NM 011350	T-29-N, R-5-W	240.00	<u>TRACT 17-A</u>			
	Sec. 33: E/2 E/2,		Royalty;	12.50%	12.50%	<u>1.684835%</u>
	W/2 SE/4		Working Interest;			
			El Paso Nat. Gas Co.;	41.25%	41.25%	
			Tom Bolack;	41.25%	41.25%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
NM 011350-A	T-29-N, R-5-W	360.00	<u>TRACT 17-B</u>			
	Sec. 33: S/2 SW/4		Royalty;	12.50%	12.50%	<u>2.527252%</u>
	Sec. 34: W/2 W/2,		Working Interest;			
	NE/4 NW/4,		Amer. Petrofina Co. of	87.50%	87.50%	
	N/2 NE/4		Texas;			
			TOTAL	100.00%	100.00%	

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UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUA PARTICIPATIO
			OWNERSHIP	PERCENTAGE		
SF 080069	T-29-N, R-5-W Sec. 22: N/2 NE/4, SE/4 NE/4	120.00	<u>TRACT 17-C</u>			
			Royalty;	12.50%	12.50%	<u>0.842417%</u>
			Working Interest:			
			Northwest Pipeline Corp.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
SF 080179	T-29-N, R-5-W Sec. 9: N/2	320.00	<u>TRACT 18</u>			
			Royalty;	12.50%	12.50%	<u>2.246446%</u>
			Working Interest:			
			Northwest Pipeline Corp.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
SF 081114	T-29-N, R-5-W Sec. 4: Lots 3,4, S/2 NW/4, SW/4	321.60	<u>TRACT 20</u>			
			Royalty;	12.50%	12.50%	<u>2.257679%</u>
			Working Interest:			
			Northwest Pipeline Corp.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
			TOTAL	100.00%	100.00%	

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SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
			OWNERSHIP	PERCENTAGE		
NM 03188	T-29-N, R-5-W Sec. 8: SW/4 Sec. 20: S/2	480.00	<u>TRACT 21</u>			
			Royalty;	12.50%	12.50%	<u>3.369670%</u>
			Working Interest:			
			Northwest Pipeline Corp.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
			TOTAL	100.00%	100.00%	
NM 03188	T-29-N, R-5-W Sec. 29: SE/4	160.00	<u>TRACT 21-A</u>			
			Royalty;	12.50%	12.50%	<u>1.123223%</u>
			Working Interest:			
			Northwest Pipeline Corp.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
NM 03188	T-29-N, R-5-W Sec. 28: N/2 NW/4, SW/4 NW/4, S/2 SW/4	200.00	<u>TRACT 21-B</u>			
			Royalty;	12.50%	12.50%	<u>1.404029%</u>
			Working Interest:			
			Northwest Pipeline Corp.;	83.50%	83.50%	
			ORRI;	4.00%	4.00%	
			TOTAL	100.00%	100.00%	

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## UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
NM 03188	T-29-N, R-5-W	440.00				
	Sec. 21: W/2, W/2 NE/4, NW/4 SE/4		Royalty; Working Interest: Northwest Pipeline Corp.; ORRI;	12.50%  82.50% 5.00%	12.50%  82.50% 5.00%	3.088864%
			TOTAL	100.00%	100.00%	
E 289-3	T-29-N, R-5-W	320.00				
	Sec. 16: NW/4, N/2 SW/4		Royalty; Working Interest: Wiser Oil Co.;	12.50%  87.50%	12.50%  87.50%	2.246446%
	Sec. 32: W/2 NW/4		TOTAL	100.00%	100.00%	
E 289-35	T-29-N, R-5-W	80.00				
	Sec. 32: E/2 SE/4		Royalty; Working Interest: Northwest Pipeline Corp.; ORRI;	12.50%  82.50% 5.00%	12.50%  82.50% 5.00%	0.561612%
			TOTAL	100.00%	100.00%	

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## UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
E 289-36	T-29-N, R-5-W Sec. 32: NE/4, SE/4 NW/4, W/2 SW/4	280.00	<u>TRACT 22-C</u>			
			Royalty;	12.50%	12.50%	1.965641%
			Working Interest:			
			Northwest Pipeline Corp.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
E 289-31	T-29-N, R-5-W Sec. 32: NE/4 NW/4	40.00	<u>TRACT 22-D</u>			
			Royalty;	12.50%	12.50%	0.280806%
			Working Interest:			
			Northwest Pipeline Corp.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
E 289-36	T-29-N, R-5-W Sec. 16: W/2 NE/4, SE/4 SW/4, SE/4	280.00	<u>TRACT 22-G</u>			
			Royalty;	12.50%	12.50%	1.965641%
			Working Interest:			
			Northwest Pipeline Corp.;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

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SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU/ PARTICIPATIO
			OWNERSHIP	PERCENTAGE		
E 289-31	T-29-N, R-5-W	120.00				
	Sec. 16: E/2 NE/4, SW/4 SW/4		Royalty; Working Interest: Northwest Pipeline Corp.; ORRI;	12.50%  82.50% 5.00%	12.50%	0.842417%
			TOTAL	100.00%	100.00%	
Fee	T-29-N, R-5-W	40.00				
	Sec. 18: NE/4 NW/4		Royalty; Working Interest: Northwest Pipeline Corp.; ORRI;	12.50%  83.50% 4.00%	12.50%	0.280806%
			TOTAL	100.00%	100.00%	
Fee	T-29-N, R-5-W	121.04				
	Tract 37 less North 10.46 acres		Royalty; Working Interest: Northwest Pipeline Corp.; ORRI;	12.50%  83.50% 4.00%	12.50%	0.849718%
	Sec.7: Lot 4		TOTAL	100.00%	100.00%	

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SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
			OWNERSHIP	PERCENTAGE		
Fee	T-29-N, R-5-W North 10.46 acres Tract 37	10.46	<u>TRACT 24-B</u>			
			Royalty;	12.50%	12.50%	<u>0.073431%</u>
			Working Interest;			
			Northwest Pipeline Corp.;	83.50%	83.50%	
			ORRI;	<u>4.00%</u>	<u>4.00%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
Fee	T-29-N, R-5-W Sec. 15: NW/4	160.00	<u>TRACT 26</u>			
			Royalty;	12.50%	12.50%	<u>1.123223%</u>
			Working Interest;			
			Northwest Pipeline Corp.;	83.50%	83.50%	
			ORRI;	<u>4.00%</u>	<u>4.00%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	
Fee	T-29-N, R-5-W Sec. 21: E/2 NE/4 Sec. 22: W/2 NW/4 Less 1 acre	159.00	<u>TRACT 27</u>			
			Royalty;	12.50%	12.50%	<u>1.116203%</u>
			Working Interest;			
			Northwest Pipeline Corp.;	83.50%	83.50%	
			ORRI;	<u>4.00%</u>	<u>4.00%</u>	
			TOTAL	<u>100.00%</u>	<u>100.00%</u>	

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SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
			OWNERSHIP	PERCENTAGE		
Fee	T-29-N, R-5-W Sec. 22: 1 acre out of SW corner of W/2 NW/4	1.00	TRACT 27-A  Royalty; Working Interest: Northwest Pipeline Corp.; TOTAL		12.50%  87.50% <u>100.00%</u>	<u>0.007020%</u>
Fee	T-29-N, R-5-W Sec. 21: SE/4 SE/4 Sec. 28: E/2 NE/4	120.00	TRACT 28  Working Interest: Larry Mizel; Steven Mayer Mizel; Gary Dean Mizel; Vicki Mizel; Ann Fisher; Saul Yager; TOTAL		00.00% 00.00% 00.00% 00.00% 00.00% 00.00% <u>000.00%</u>	<u>0.000000%</u>
Fee	Sec. 21: NE/4 SE/4	40.00	Working Interest: Sam Lack;		000.00%	<u>0.000000%</u>
Fee	T-29-N, R-5-W Sec. 28: SE/4, N/2 SW/4, SE/4 NW/4, SW/4 NE/4	320.00	TRACT 29  Royalty; Working Interest: Northwest Pipeline Corp.; ORRI; TOTAL		12.50%  85.00% 2.50% <u>100.00%</u>	<u>2.246446%</u>

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Form NWP 1506(8/74)

SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
			OWNERSHIP	PERCENTAGE		
Fee	T-29-N, R-5-W Sec. 30: SW/4 SE/4 Sec. 31: W/2 NE/4, SE/4 NE/4, SE/4 NW/4 N/2 SW/4 NW/4	220.00	Royalty; Working Interest: Northwest Pipeline Corp.; ORRI;  TOTAL	12.50%  83.50% 4.00% <u>100.00%</u>	12.50%  83.50% 4.00% <u>100.00%</u>	<u>1.544432%</u>
Fee	T-29-N, R-5-W Sec. 34: SW/4 NE/4, NW/4 SE/4, SE/4 NW/4, NE/4 SW/4 less 32 acres in SW corner	128.00	Royalty; Working Interest: Northwest Pipeline Corp.; ORRI;  TOTAL	12.50%  84.50% 3.00% <u>100.00%</u>	12.50%  84.50% 3.00% <u>100.00%</u>	<u>0.898579%</u>
Fee	T-29-N, R-5-W Sec. 34: 32 acres out of SW corner of NE/4 SW/4	32.00	Royalty; Working Interest: Northwest Pipeline Corp.; ORRI;  TOTAL	12.50%  84.50% 3.00% <u>100.00%</u>	12.50%  84.50% 3.00% <u>100.00%</u>	<u>0.224645%</u>

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SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPAT
			OWNERSHIP	PERCENTAGE		
Fee	T-29-N, R-5-W Sec. 31: W/2 SW/4, S/2 SW/4 NW/4	100.00	TRACT 33  Royalty; Working Interest; Amer. Petrofina Co. of Texas; Koch Industries, Inc.; TOTAL	12.500%  21.875%  65.625% 100.000%	12.500%  21.875%  65.625% 100.000%	0.702015%
Fee	T-29-N, R-5-W Sec. 32: E/2 SW/4, W/2 SE/4	160.00	TRACT 34  Royalty; Working Interest; Northwest Pipeline Corp.; TOTAL	12.50%  87.50% 100.00%	12.50%  87.50% 100.00%	1.123223%
Fee	T-29-N, R-5-W Sec. 33: W/2 NW/4, N/2 SW/4	160.00	TRACT 35  Royalty; Working Interest; Northwest Pipeline Corp.; ORRI; TOTAL	12.50%  82.50% 5.00% 100.00%	12.50%  82.50% 5.00% 100.00%	1.123223%

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## UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
			OWNERSHIP	PERCENTAGE		
Fee	T-29-N, R-5-W	80.00	<u>TRACT 37</u>			
	Sec. 21: SW/4 SE/4		Royalty;	12.50%	12.50%	
	Sec. 28: NW/4 NE/4		Working Interest:			
			Northwest Pipeline Corp.;	87.50%	87.50%	
			TOTAL	100.00%	100.00%	0.561612%
Fee	T-29-N, R-5-W	318.00	<u>TRACT 38</u>			
	Sec. 22: E/2 NW/4,		Royalty;	12.50%	12.50%	
	SW/4 less 2		Working Interest:			
	acres out of		Northwest Pipeline Corp.;	87.50%	87.50%	
	NE/4 SW/4		TOTAL	100.00%	100.00%	2.232406%
Fee	T-29-N, R-5-W	1.00	<u>TRACT 38-A</u>			
	Sec. 22: 1 acre in		Royalty;	12.50%	12.50%	
	NW/4 SE/4		Working Interest:			
			Northwest Pipeline Corp.;	87.50%	87.50%	
			TOTAL	100.00%	100.00%	0.007020%

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SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPAT
			OWNERSHIP	PERCENTAGE		
<u>TRACT 38-B</u>						
Fee	<u>T-29-N, R-5-W</u> Sec. 22: 2 acres out of NE/4 SW/4	2.00	Royalty; Working Interest: Northwest Pipeline Corp.;	12.50%  87.50% <u>100.00%</u>	12.50%  87.50% <u>100.00%</u>	<u>0.014040%</u>
<u>TRACT 38-C</u>						
Fee	<u>T-29-N, R-5-W</u> Sec. 22: SW/4 NE/4, N/2 SE/4 less 1 acre out of NW/4 SE/4	119.00	Royalty; Working Interest: Northwest Pipeline Corp.;	12.50%  87.50% <u>100.00%</u>	12.50%  87.50% <u>100.00%</u>	<u>0.835397%</u>

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SCHEDULE XXIII  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
			OWNERSHIP	PERCENTAGE		

RECAPITULATION

Description of lands in Mesaverde Participating Area:

Township 29 North, Range 5 West, N.M.P.M.Sections 5, 6, 7, 8, 9, 16, 17, 18, 19, 20,  
21, 22, 27, 28, 29, 30, 31, 32,  
33, 34: All

Sections 4, 15, 23, 26, 35: W/2

Total number of acres in Participating Area:

14,404.72

Total number of acres committed to Participating Area:

14,244.72

Total number of acres not committed to Participating Area: 160.00

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SCHEDULE XXIV  
AMENDED TWENTY-THIRD EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION  
SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>R E C A P I T U L A T I O N</u>							
Description of lands in Mesaverde Participating Area:							
<u>Township 29 North, Range 5 West, N.M.P.M.</u>							
Sections 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, 21, 22, 25, 26,							
27, 28, 29, 30, 31, 32, 33, 34: All							
Sections 4, 23, 26, 35: W/2							
Section 15: W/2, SE/4							
Total number of acres in Participating Area:					14,884.72		
Total number of acres committed to Participating Area:					14,724.72		
Total number of acres not committed to Participating Area:					160.00		

Northwest Pipeline Corporation



JOHN M. PARKER  
DIRECTOR OF EXPLOATION

January 14, 1975

ONE PARK CENTRAL, SUITE 1487  
DENVER, COLORADO 80202  
303-623-9303

Mr. Carl C. Traywick  
Acting Area Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico 88201

Commissioner of Public Lands  
State of New Mexico  
Attention: Mr. Ray D. Graham  
Post Office Box 1148  
Santa Fe, New Mexico 87501

Oil Conservation Commission  
State of New Mexico  
Attention: Mr. A. L. Porter, Jr.  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: San Juan 29-5 Unit  
#14-08-001-437  
NOTICE OF COMPLETION OF  
ADDITIONAL WELL  
Mesaverde Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 29-5 Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, has determined on December 4, 1974, that the following additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to the unit:

The San Juan 29-5 Unit No. 74 Well is located 1450' from the south line and 840' from the west line, Section 17, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on November 8, 1974, and completed on December 4, 1974, in the Mesaverde Formation at a total depth of 5950'. The Mesaverde Formation was perforated with one (1) shot per zone at 5390', 5400', 5410', 5540', 5554', 5676', 5694', 5706', 5733', 5750', 5768', and 5778'. On November 20, 1974, these perforations were




Acting Area Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
January 14, 1975  
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treated with 1000 gallons of 7 1/2% hydrochloric acid, followed by sand-water fracturing. The well was shut-in On November 26, 1974, and after being shut-in for eight (8) days, the well was tested on December 4, 1974, with a SIPC of 835 psia and a SIPT of 709 psia. After flowing for three (3) hours through a 3/4 inch positive choke on the 2 3/8 inch tubing, the well gauged 1913 MCFG/D with a calculated Absolute Open Flow of 2390 MCFG/D.

The committed drilling block upon which this well is located is described as the W/2 of Section 17, Township 29 North, Range 5 West, N.M.P.M., and contains 320 acres, more or less. This Drilling Block was included in the Initial Participating Area for the Mesaverde Formation, effective January 12, 1953, in the San Juan 29-5 Unit and, therefore, the Participating Area is not enlarged.

A copy of this letter is being sent to each of the working interest owners shown on the attached sheet.

Very truly yours,

  
John W. Shepardson  
Land Manager

BRB:cak  
Attachment

SAN JUAN 29-5 UNIT

Working Interest Owners

Sun Oil Company  
Attention: V. M. Williams  
P.O. Box 2880  
Dallas, TX 75221

Phillips Petroleum Company  
Attention: Mr. N. N. Beckner  
1000 Security Life Building  
Denver, CO 80202

Mr. Forrest B. Miller and  
Mabelle M. Miller  
1224 Lois Street  
P. O. Box 1445  
Kerrville, TX 78028

Koch Industries, Inc.  
P. O. Box 2256  
Wichita, KS 67201

General American Oil Company  
of Texas  
Attention: Mr. L. E. Dooley  
Meadows Building  
Dallas, TX 75206

Amoco Production Company  
Attention: Mr. T. M. Curtis  
Security Life Building  
Denver, CO 80202

The Wiser Oil Company  
P. O. Box 2467  
Hobbs, NM 88240

Mr. J. William McElvain  
310 East Jefferson Street  
Morris, IL 60450

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

Mr. James E. McElvain, Executor for  
the Estate of Carl R. McElvain, Deceased  
309 West Jefferson Street  
Morris, IL 60450

Mrs. Catherine B. McElvain,  
Individually and as Executrix of the  
Estate of T. H. McElvain, Deceased  
Box 2148  
Santa Fe, NM 87501

Mr. Tom Bolack  
1010 North Dustin Drive  
Farmington, NM 87401

American Petrofina Company of Texas  
P. O. Box 2159  
Dallas, TX 75221

Ruth M. Vaughan  
300 Caversham Road  
Bryn Mawr, PN 19010

# El Paso Natural Gas Company

El Paso, Texas 79978

April 10, 1974

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

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

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

Re: San Juan 29-5 Unit, Rio Arriba County,  
New Mexico, SIXTH AND SEVENTH  
EXPANDED PARTICIPATING AREA,  
Dakota Formation, Effective  
September 1, 1973 and December 1, 1973

Gentlemen:

The captioned Expansions were approved by the Regulatory Agencies on the dates indicated:

United States Geological Survey - April 3, 1974  
Commissioner of Public Lands - March 15, 1974  
Oil Conservation Commission - March 18, 1974

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

Yours very truly,



Don Wadsworth  
Landman, Land Department  
Energy Resource Development

DW:lj  
SJ 29-5 Unit 4.3

cc: Mr. Antonio Martinez  
Executive Director, New Mexico Oil & Gas Accounting Commission



# United States Department of the Interior

GEOLOGICAL SURVEY  
Drawer 1857  
Roswell, New Mexico 88201

April 3, 1974

El Paso Natural Gas Company  
Attention: Mr. James R. Permenter  
P. O. Box 1492  
El Paso, Texas 79999

Gentlemen:

Your application of March 11, 1974, requesting approval of the sixth and seventh revisions of the Dakota participating area for the San Juan 29-5 unit agreement, Rio Arriba County, New Mexico, was approved on April 3, 1974, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of September 1, 1973, and December 1, 1973, respectively.

The sixth revision adds 640 acres described as the NW $\frac{1}{4}$  of sec. 20 and the NW $\frac{1}{4}$  of sec. 28, T. 29 N., R. 5 W., N.M.P.M., thereby enlarging the Dakota participating area to 4,000 acres. Such revision is based on the completion of unit wells Nos. 65 and 67, located in the SW $\frac{1}{4}$  of sec. 28 and the NE $\frac{1}{4}$  of sec. 20, respectively. Well No. 65 was completed on September 26, 1973, for a calculated absolute open flow potential of 3,219 MCFGPD from the Dakota interval from 7,922 feet to 8,102 feet. Well No. 67 was completed on September 20, 1973, for a calculated absolute open flow potential of 2,644 MCFGPD from the Dakota interval from 7,948 feet to 8,034 feet.

The seventh revision adds 1600 acres described as the SE $\frac{1}{4}$  of sec. 7, the SE $\frac{1}{4}$  of sec. 17, the E $\frac{1}{2}$  of sec. 18, the W $\frac{1}{2}$  of sec. 21, and the W $\frac{1}{2}$  of sec. 33, all in T. 29 N., R. 5 W., N.M.P.M., which enlarges the Dakota participating area to 5600 acres. Such revision is based on unit wells Nos. 62, 63, 64, 65, and 68, located in the SW $\frac{1}{4}$  of sec. 7, the SW $\frac{1}{4}$  of sec. 17, the SW $\frac{1}{4}$  of sec. 21, the SW $\frac{1}{4}$  of sec. 33, and the NE $\frac{1}{4}$  of sec. 18, respectively. Well No. 62 was completed on December 27, 1973, for a calculated absolute open flow potential of 4,083 MCFGPD from the Dakota interval from 7,726 feet to 7,856 feet. Well No. 63 was completed on December 8, 1973, for a calculated absolute open flow potential of 4,109 MCFGPD from the Dakota interval from 7,850 feet to 7,988 feet. Well No. 64 was completed on December 4, 1973, for a calculated absolute open flow potential of 3,675 MCFGPD from the Dakota interval from 7,978 feet to 8,076 feet. Well No. 65 was completed on December 28, 1973, for a calculated absolute open flow potential of 4,706 MCFGPD from the Dakota interval from 7,742 feet to 7,900 feet. Well No. 68 was completed on December 12, 1973, for a calculated absolute open flow potential of 2,378 MCFGPD from the Dakota interval from 7,801 feet to 7,885 feet.

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 all other interested parties with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SGN.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

cc:

Durango (w/cy of appln.)  
BIM, Santa Fe (ltr. only)  
N.M.O.C.C., Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

REShook:lh

**OIL CONSERVATION COMMISSION**

**P. O. BOX 2088**

**SANTA FE, NEW MEXICO 87501**

March 18, 1974

418  
El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, Texas 79978

Attention: Mr. James R. Permenter

Re: Sixth and Seventh Expansions  
Dakota Participating Area,  
San Juan 29-5 Unit, Rio Arriba  
County, New Mexico

Gentlemen:

C  
O  
P  
Y  
This is to advise that the New Mexico Oil Conservation Commission has this date approved the Sixth and Seventh Expanded Participating Areas, Dakota Formation, for the San Juan 29-5 Unit, Rio Arriba 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, Roswell, and two approved copies are returned to the Commissioner of Public Lands.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

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

# State of New Mexico

TELEPHONE  
505-827-2748



## Commissioner of Public Lands

ALEX J. ARMIJO  
COMMISSIONER

March 15, 1974

P. O. BOX 1148  
SANTA FE, NEW MEXICO

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

Re: San Juan 29-5 Unit  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
SIXTH & SEVENTH EXPANDED PARTICI-  
PATING AREAS, Dakota Formation  
Effective September 1, 1973 and  
December 1, 1973, respectively

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved the Sixth & Seventh Expanded Participating Areas, Dakota Formation, for the San Juan 29-5 Unit, Rio Arriba 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 applications 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 must be retained by the Oil Conservation Commission. After this application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso Natural Gas Company.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

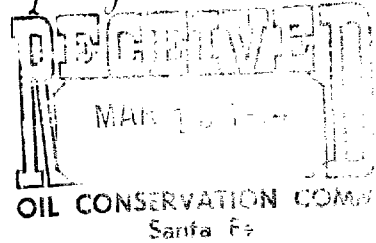
AJA/RDG/s

cc: OCC- Santa Fe, New Mexico (cpy of ltr and 8 cpys of application)  
USGS-Roswell, New Mexico (cpy of ltr only)

# El Paso Natural Gas Company

El Paso, Texas 79978

March 11, 1974



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

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
SIXTH & SEVENTH EXPANDED PARTICI-  
PATING AREAS, Dakota Formation  
Effective September 1, 1973 and  
December 1, 1973, respectively

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the Sixth and Seventh Expanded Participating Areas of the Dakota 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  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:DW:sn  
Enclosures  
S.J. 29-5, 4.3

cc: Regional Oil & Gas Supervisor  
✓ Oil Conservation Commission



# El Paso Natural Gas Company

El Paso, Texas 79978

March 11, 1974

MAR 12 10 25 AM '74

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

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

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

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
SIXTH & SEVENTH EXPANDED PARTICI-  
PATING AREAS, Dakota Formation  
Effective September 1, 1973 and  
December 1, 1973, respectively

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 29-5 Unit Agreement #14-08-001-437, approved November 21, 1952, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Sixth and Seventh Expanded Participating Areas for the Dakota Formation, to wit:

## SIXTH EXPANDED PARTICIPATING AREA - Effective September 1, 1973

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 29 North, Range 5 West, N.M.P.M.</u>	
Section 20: N/2	320.00
Section 28: W/2	320.00
	<u>640.00</u>

This proposed Sixth Revision of the Total Participating Area for the Dakota Formation is predicated upon the determination by El Paso Natural

United States Geological Survey  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Two

Gas Company, as Unit Operator, that the following San Juan 29-5 Unit Dakota Wells which were completed outside the limits of the existing Dakota Participating Area, are capable of producing unitized substances in paying quantities from the Dakota formation. These wells are as follows:

The San Juan 29-5 Unit #65 Well is located 1100' from the South line and 1180' from the West line of Section 28, Township 29 North, Range 5 West, N.M.P.M., was spudded on August 30, 1973 and completed on September 26, 1973, in the Dakota Formation at a total depth of 8534'. The Dakota Formation in the intervals 7922', 7948', 7950', 8020', 8042', and 8102' was treated with a sand-water fracturing process on September 13, 1973. The well was shut-in on September 17, 1973, and after being shut-in for eight (8) days, the well was tested on September 26, 1973, and following a three (3) hour blow-down period the Dakota Formation gauged 3160 MCF/D through a 3/4" choke and 3219 MCF/D by the calculated absolute open-flow method, with a SIPC of 2607 psia and an SIPT of 2603 psia. The spacing unit for this well is described as the W/2 of Section 28, Township 29 North, Range 5 West, containing 320.00 acres.

The San Juan 29-5 Unit #67 Well, located 1180' from the North line and 1180' from the East line of Section 20, Township 29 North, Range 5 West, N.M.P.M., was spudded on August 16, 1973, and completed on September 17, 1973, in the Dakota Formation at a total depth of 8074'. The Dakota Formation in the intervals 7948', 7950', 7966', 8014', and 8034', was treated with a sand-water fracturing process on September 5, 1973. The well was shut-in on September 8, 1973, and after being shut-in for nine (9) days the well was tested on September 20, 1973, and following a three (3) hour blow-down period, the Dakota Formation gauged 2790 MCF/D through a 3/4" choke and 2844 MCF/D by the calculated absolute open-flow method, with a SIPC of 2617 psia and an SIPT of 1312 psia. The spacing unit for this well is described as the N/2 of Section 20, Township 29 North, Range 5 West, containing 320.00 acres.

SEVENTH EXPANDED PARTICIPATING AREA - Effective December 1, 1973

<u>Description of Lands</u>	<u>Acres</u>
Township 29 North, Range 5 West, N.M.P.M.	
Section 7: S/2	320.00

United States Geological Survey  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Three

Section 17: S/2	320.00
Section 18: E/2	320.00
Section 21: W/2	320.00
Section 33: W/2	320.00
	<u>1600.00</u>

This proposed Seventh Revision of the Total Participating Area for the Dakota Formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator that the following San Juan 29-5 Unit Dakota Wells which were completed outside the limits of the existing Dakota Participating Area, are capable of producing unitized substances in paying quantities from the Dakota Formation. These wells are as follows:

The San Juan 29-5 Unit #62 Well, located 1180' from the South line and 1180' from the West line of Section 7, Township 29 North, Range 5 West, N.M.P.M., was spudded on November 12, 1973, and completed on December 27, 1973, in the Dakota Formation at a total depth of 7898'. The Dakota Formation in the intervals 7726', 7778', 7834', 7836', 7851', and 7856', was treated with a sand-water fracturing process on December 12, 1973. The well was shut-in on December 14, 1973, and after being shut-in for thirteen (13) days the well was tested on December 27, 1973, and following a three (3) hour blow-down period, the Dakota Formation gauged 3966 MCF/D through a 3/4" choke and 4083 MCF/D by the calculated absolute open-flow method, with an SIPC of 2772 psia and an SIPT of 2366 psia. The spacing unit for this well is described as the S/2 of Section 7, Township 29 North, Range 5 West, containing 320.00 acres.

The San Juan 29-5 Unit #63 Well, located 1180' from the South line and 1180' from the West line of Section 17, Township 29 North, Range 5 West, N.M.P.M., was spudded on October 11, 1973, and completed on December 8, 1973, in the Dakota Formation at a total depth of 8038'. The Dakota Formation in the intervals 7850', 7854', 7860', 7921', 7932', 7953', 7959', 7988', was treated with a sand-water fracturing process on November 28, 1973. The well was shut-in on December 1, 1973, and after being shut-in for seven (7) days the well was tested on December 8, 1973, and following a three (3) hour blow-down period, the Dakota Formation gauged 3971 MCF/D through a 3/4" choke and 4109 MCF/D by the calculated absolute open-flow method with an SIPC of 2701 psia and an SIPT of 2115 psia. The spacing unit for this well is described as the S/2 of Section 17, Township 29 North, Range 5 West, containing 320.00 acres.

United States Geological Survey  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Four

The San Juan 29-5 Unit #64 Well, located 1180' from the South line and 1460' from the West line of Section 21, Township 29 North, Range 5 West, N.M.P.M., was spudded on September 24, 1973, and completed on December 4, 1973, in the Dakota Formation at a total depth of 8149'. The Dakota Formation in the intervals between 7978'-7990', 8040'-8052', and 8062'-8076', was treated with a sand-water fracturing process on November 25, 1973. The well was shut-in on November 27, 1973, and after being shut-in for seven (7) days the well was tested on December 4, 1973, and following a three (3) hour blow-down period, the Dakota Formation gauged 3018 MCF/D through a 3/4" choke and 3075 MCF/D by the calculated absolute open-flow method, with an SIPC of 2600 psia and an SIPT of 2592 psia. The spacing unit for this well is described as the W/2 of Section 21, Township 29 North, Range 5 West, containing 320.00 acres.

The San Juan 29-5 Unit #66 Well, located 1500' from the South line and 820' from the West line of Section 33, Township 29 North, Range 5 West, N.M.P.M., was spudded on November 28, 1973, and completed on December 28, 1973, in the Dakota Formation at a total depth of 7955'. The Dakota Formation in the intervals 7742', 7776', 7821', 7823', 7868', 7884', and 7900' was treated with a sand-water fracturing process on December 14, 1973. The well was shut-in on December 17, 1973, and after being shut-in for ten (10) days the well was tested on December 28, 1973, and following a three (3) hour blow-down period, the Dakota Formation gauged 4561 MCF/D through a 3/4" choke and 4706 MCF/D by the calculated absolute open-flow method, with an SIPC of 2594 psia and an SIPT of 2592 psia. The spacing unit for this well is described as the W/2 of Section 33, Township 29 North, Range 5 West, containing 320.00 acres.

The San Juan 29-5 Unit #68 Well, located 1180' from the North line and 1180' from the East line of Section 18, Township 29 North, Range 5 West, N.M.P.M., was spudded on October 28, 1973, and completed on December 12, 1973, in the Dakota Formation at a total depth of 7959'. The Dakota Formation in the intervals 7801', 7806', 7861', 7864', 7883', and 7885', was treated with a sand-water fracturing process on December 12, 1973. The well was shut-in on December 4, 1973, and after being shut-in for eight (8) days the well was tested on December 12, 1973, and following a three (3) hour blow-down period, the Dakota Formation gauged 2840 MCF/D through a 3/4" choke and 2878 MCF/D by the calculated absolute open-flow method, with an SIPC of 2516 psia and an SIPT of 2035 psia. The spacing unit for this well is described as the E/2 of Section 18, Township 29 North, Range 5 West, containing 320 acres.

In support of this application the following listed Exhibits are made a part hereof:

EXHIBIT "A"

Ownership maps reflecting the boundaries of the Unit and the proposed Sixth and Seventh Expansions of the Participating Area of the Dakota Formation within the San Juan 29-5 Unit.

EXHIBIT "B"

Geological Report on the Sixth and Seventh Expansions of the Participating Area of the Dakota Formation within the San Juan 29-5 Unit.

EXHIBIT "C"

Plate No. 1: San Juan 29-5 Dakota Structure Map  
Plate No. 2: San Juan 29-5 Dakota Isopach Map

EXHIBIT "D"

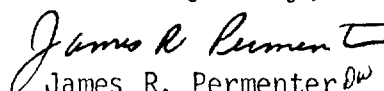
Table 1: Schedule of San Juan 29-5 Unit Dakota production and deliverability.

Attached hereto are Schedules VII and VIII showing the proposed Sixth and Seventh Expanded Participating Areas for the Dakota Formation in the San Juan 29-5 Unit Area. These Schedules describe the Participating Area, show the percentage of unitized substances allocated to each unitized tract, and the percentage of ownership in the tracts.

If the Sixth and Seventh Expanded Participating Areas of the Dakota Formation meet with your approval, please indicate such approval in the space provided on the attached sheet and return an approved copy hereof for our files.

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

Yours very truly,



James R. Permenter<sup>DW</sup>  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:DW:sn  
Enclosures  
SJ 29-5, Unit 4.3

cc: Mr. Antonio Martinez  
New Mexico Oil & Gas Accounting Commission

SAN JUAN 29-5 UNIT  
Dakota Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3)

Mr. Tom Bolack

Mrs. Catherine B. McElvain, Individually  
and as Executrix of the Estate of  
T. H. McElvain, Deceased

Mr. James E. McElvain, Executor for the  
Estate of Carl R. McElvain, Deceased

Mr. J. William McElvain

Mr. Forrest B. Miller and  
Mabelle M. Miller

Phillips Petroleum Company

Ruth M. Vaughan

The Wiser Oil Company

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

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

APPROVED: Alex J. Hanning  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey  
and the Oil Conservation Commission

DATE: March 15, 1974

APPROVED: A. L. Porter  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey  
and the Commissioner of Public Lands

DATE: March 18, 1974

The foregoing approvals are for the Sixth and Seventh Expanded Participating Areas of the Dakota Formation, San Juan 29-5 Unit, #14-08-001-437, Rio Arriba County, New Mexico

# El Paso Natural Gas Company

El Paso, Texas 79978

4/15

December 28, 1972

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

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

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

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
FIFTH EXPANDED PARTICIPATING AREA,  
Dakota Formation, Effective  
July 1, 1972

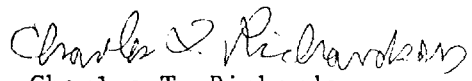
Gentlemen:

The captioned Expansion was approved by the Regulatory Bodies on the dates indicated:

United States Geological Survey	-	December 21, 1972
Commissioner of Public Lands	-	December 8, 1972
Oil Conservation Commission	-	December 11, 1972

Copies of this letter are being furnished to the working interest owners of the above-described Unit.

Yours very truly,

  
Charles T. Richardson  
Senior Landman  
Land Department  
Energy Resource Development

CTR:nja  
S.J. 29-5 Unit 4.3

cc: Mrs. Pepita O. Jeffus, Executive  
Director, New Mexico Oil & Gas  
Accounting Commission



Drawer 1857  
Roswell, New Mexico 88201

December 21, 1972

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

Attention: Mr. James R. Permenter

Gentlemen:

Your application of November 30, 1972, requesting approval of the fifth revision of the Dakota participating area for the San Juan 29-5 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-437, was approved on December 21, 1972, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of July 1, 1972.

The fifth revision adds 480 acres described as the SE $\frac{1}{4}$  sec. 30 and the E $\frac{1}{2}$  sec. 31, all in T. 29 N., R. 5 W., N.M.P.M., which enlarges the Dakota participating area to 3,360 acres. Such revision is based on the completion data of the following unit well.

<u>Well No.</u>	<u>Location</u> 29 N., 5 W.	<u>Completion Date</u>	<u>Dakota Interval</u>	<u>CAOF</u> <u>MCFD</u>
59	NE $\frac{1}{4}$ sec. 31	7-10-72	7,726-7,852	3,867

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:  
Washington (w/cy appln.)  
Durango (w/cy appln.)  
BLM, Santa Fe (ltr. only)  
NMOCC, Santa Fe (ltr. only) ✓  
Com. of Pub. Lands, Santa Fe (ltr. only)

JFisher:lh

418  
December 11, 1972

El Paso Natural Gas Company  
Box 1492  
El Paso, Texas 79978

Attention: Mr. James R. Permenter

Re: Fifth Expanded Dakota  
Participating Area,  
San Juan 29-5 Unit,  
Rio Arriba County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Fifth Revision of the Participating Area for the Dakota Formation for the San Juan 29-5 Unit, Rio Arriba 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 State Geological Survey, Roswell, New Mexico, and two copies are being returned to the Commissioner of Public Lands.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

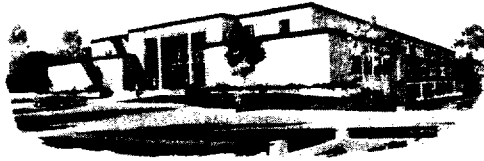
ALP/JEK/og

cc: United States Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe

# State of New Mexico

TELEPHONE

505-827-2748



## Commissioner of Public Lands

December 8, 1972

ALEX J. ARMIJO  
COMMISSIONER

P. O. BOX 1148  
SANTA FE, NEW MEXICO

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

Re: San Juan 29-5 Unit  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
FIFTH EXPANDED PARTICIPATING AREA,  
Dakota Formation, Effective  
July 1, 1972

ATTENTION: Mr. James R. Percenter

Gentlemen:

The Commissioner of Public Lands has this date approved the Fifth Expanded Participating Area for the Dakota Formation, for the San Juan 29-5 Unit, Rio Arriba 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 copies to be returned to the Commissioner of Public Lands and one copy must be retained by the Oil Conservation Commission. After this application has been approved and signed by the United States Geological Survey, two (2) copies should be returned to El Paso Natural Gas Company.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

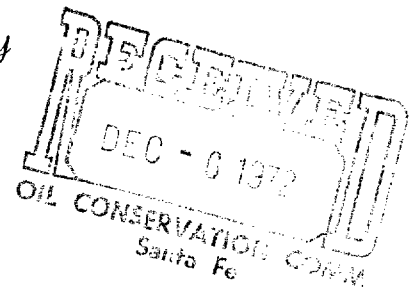
AJA/RDC/s

cc:

OCC-Santa Fe, New Mexico (copy of ltr and 8 copies of application) ✓  
USGS-Roswell, New Mexico (copy of ltr only)

418  
*El Paso Natural Gas Company*

December 4, 1972  
*El Paso, Texas* 79999



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

Re: San Juan 29-5 Unit #14-08-001-437,  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
FIFTH EXPANDED PARTICIPATING AREA,  
Dakota Formation, Effective  
July 1, 1972

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the Fifth Expanded Participating Area of the Dakota 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,

A handwritten signature in cursive script that reads "James R. Permenter".

James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:CTR:1j  
Enclosures

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

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

Mr. R. F. Lemon  
Mr. Charles Higgins

C O P Y

# El Paso Natural Gas Company

El Paso, Texas 79978

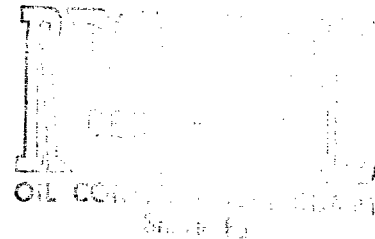
120 3 1972

November 30, 1972

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

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

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



Re: San Juan 29-5 Unit #14-08-001-437,  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
FIFTH EXPANDED PARTICIPATING AREA,  
Dakota Formation, Effective July 1,  
1972

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 29-5 Unit Agreement #14-08-001-437, approved November 21, 1952, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Fifth Expanded Participating Area for the Dakota formation, to wit:

## FIFTH EXPANDED PARTICIPATING AREA - Effective July 1, 1972

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 29 North, Range 5 West, N.M.P.M.</u>	
Section 30: SE/4	160.00
Section 31: E/2	<u>320.00</u>
	480.00

This proposed Fifth Revision of the Total Participating Area for the Dakota formation is predicated upon the determination by El Paso

November 30, 1972

Natural Gas Company, as Unit Operator, that the San Juan 29-5 Unit #59 Dakota Well, which was completed outside the limits of the existing Dakota Participating Area, is capable of producing unitized substances in paying quantities from the Dakota formation. This well is as follows:

The San Juan 29-5 Unit #59 Well is located 1590' from the North line and 1100' from the East line of Section 31, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. Said well was spudded on March 31, 1972, and completed on June 29, 1972, in the Dakota formation at a total depth of 7906'. The Dakota formation in the intervals between 7726'-7738', 7768'-7774', 7796'-7798', 7820'-7826', 7846'-7852' was treated with a sand-water fracturing process on June 28, 1972. The Dakota formation was shut-in on July 1, 1972, and after being shut-in for nine (9) days, the Dakota formation was tested on July 10, 1972, and following a three (3) hour blow-down period gauged 3776 MCFGPD through a 3/4" choke and 3867 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2641 psia and an SIPT of 2317 psia.

In support of this application the following listed Exhibits are made a part hereof:

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Fifth Expansion of the Participating Area of the Dakota formation within the San Juan 29-5 Unit.

EXHIBIT "B"

Geological Report on the Fifth Expansion of the Participating Area of the Dakota formation within the San Juan 29-5 Unit.

EXHIBIT "C"

Plate No. 1: San Juan 29-5 Dakota Structure Map  
Plate No. 2: San Juan 29-5 Dakota Isopach Map

EXHIBIT "D"

Table 1: Schedule of San Juan 29-5 Unit Dakota production and deliverability.

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


November 30, 1972

Attached hereto is Schedule VI showing the proposed Fifth Expanded Participating Area for the Dakota formation in the San Juan 29-5 Unit Area. This Schedule describes the Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the percentage of ownership in the tracts.

If the Fifth Expanded Participating Area of the Dakota formation meets with your approval, please indicate such approval in the space provided on the attached sheet and return an approved copy hereof for our files.

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

Yours very truly,



James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:CTR:1j  
Enclosures  
SJ 29-5 Unit 4.3

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission  
Post Office Box 2308  
Santa Fe, New Mexico 87501

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

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

APPROVED: Alf J. Armitage  
Commissioner of Public Lands  
Subject to like approval by the  
United States Geological Survey and  
the Oil Conservation Commission

DATE: 12-8-72

APPROVED: A. L. Burton, Jr.  
Oil Conservation Commission  
Subject to like approval by the  
United States Geological Survey and  
the Commissioner of Public Lands

DATE: December 11, 1972

The foregoing approvals are for the Fifth Expanded Participating Area of the  
Dakota formation, San Juan 29-5 Unit, #14-08-001-437, Rio Arriba County, New Mexico.



SAN JUAN 29-5 UNIT  
Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3)

Mr. Tom Bolack

General American Oil Company of Texas

Koch Industries, Inc.

Mrs. Catherine B. McElvain, Individually  
and as Executrix of the Estate of  
T. H. McElvain, Deceased

Mr. James E. McElvain, Executor for the  
Estate of Carl R. McElvain, Deceased

Mr. J. William McElvain

Mr. Forrest B. Miller and  
Mabelle M. Miller

Phillips Petroleum Company

Sun Oil Company - DX Division

Ruth M. Vaughan

The Wiser Oil Company

SCHEDULE VI  
 FIFTH EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
 SAN JUAN 29-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT AC PARTICIPA
			OWNERSHIP	PERCENTAGE		
<u>TRACT #1</u>						
SF 078277	T-29-N, R-5-W Sec. 18: SW/4, W/2 NW/4, SE/4 NW/4	280.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 83.50% 4.00% <u>100.00%</u>	12.50% 83.50% 4.00% <u>100.00%</u>	<u>8.3333333%</u>
<u>TRACT #3</u>						
SF 078282	T-29-N, R-5-W Sec. 19: All Sec. 30: SE/4 SE/4	680.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 83.50% 4.00% <u>100.00%</u>	12.50% 83.50% 4.00% <u>100.00%</u>	<u>20.238095%</u>
<u>TRACT #3-A</u>						
SF 078282	T-29-N, R-5-W Sec. 29: NE/4 Sec. 31: N/2 NW/4, NE/4 NE/4	280.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 83.00% 4.50% <u>100.00%</u>	12.50% 83.00% 4.50% <u>100.00%</u>	<u>8.3333333%</u>
<u>TRACT #4-B</u>						
NM-011348	T-29-N, R-5-W Sec. 31: NE/4 SW/4, N/2 SE/4	120.00	Royalty; Working Interest: Tom Bolack; ORRI;	12.50% 87.50% .00% <u>100.00%</u>	12.50% 87.50% .00% <u>100.00%</u>	<u>3.571429%</u>

Effective July 1, 1972

SCHEDULE VI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT A PARTICIP
			OWNERSHIP	PERCENTAGE		
<u>TRACT #6-A</u>						
SF 078410-A	T-29-N, R-5-W Sec. 31: SE/4 SW/4, S/2 SE/4	120.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	<u>3.571429%</u>
<u>TRACT #15</u>						
SF 079851	T-29-N, R-5-W Sec. 30: W/2, N/2 SE/4	400.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 83.00% 4.50% <u>100.00%</u>	12.50% 83.00% 4.50% <u>100.00%</u>	<u>11.904762%</u>
<u>TRACT #21</u>						
MM-03188	T-29-N, R-5-W Sec. 20: S/2	320.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 83.50% 4.00% <u>100.00%</u>	12.50% 83.50% 4.00% <u>100.00%</u>	<u>9.523810%</u>
<u>TRACT #21-A</u>						
MM-03188	T-29-N, R-5-W Sec. 29: SE/4	160.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50% 82.50% 5.00% <u>100.00%</u>	12.50% 82.50% 5.00% <u>100.00%</u>	<u>4.761905%</u>

Effective July 1, 1972

SCHEDULE VI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACT PARTICIPAT	
			OWNERSHIP	PERCENTAGE			
E-289-3	T-29-N, R-5-W 80.00						
	Sec. 32: W/2 NW/4						
	Royalty;		12.50%	12.50%	2.380952%		
	Working Interest:						
	The Wiser Oil Co.;		87.50%	87.50%			
	ORRI;		0.00%	0.00%			
	TOTAL		100.00%	100.00%			
	TRACT #22-A						
	E-289-35	T-29-N, R-5-W 80.00					
		Sec. 32: E/2 SE/4					
Royalty;		12.50%	12.50%	2.380952%			
Working Interest:							
El Paso Natural Gas Co.;		82.50%	82.50%				
ORRI;		5.00%	5.00%				
TOTAL		100.00%	100.00%				
TRACT #22-C							
E-289-36		T-29-N, R-5-W 280.00					
		Sec. 32: W/2 SW/4, NE/4, SE/4 NW/4					
	Royalty;		12.50%	12.50%	8.333333%		
	Working Interest:						
	El Paso Natural Gas Co.;		82.50%	82.50%			
	ORRI;		5.00%	5.00%			
	TOTAL		100.00%	100.00%			
	TRACT #22-D						
	E-289-31	T-29-N, R-5-W 40.00					
		Sec. 32: NE/4 NW/4					
Royalty;		12.50%	12.50%	1.190476%			
Working Interest:							
El Paso Natural Gas Co.;		82.50%	82.50%				
ORRI;		5.00%	5.00%				
TOTAL		100.00%	100.00%				

Effective July 1, 1972

SCHEDULE VI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<b>Fee</b>	<b>T-29-N, R-5-W</b> <b>Part Tract 37:</b> <b>Sec. 18: NE/4 NW/4</b>	<b>40.00</b>				
			<b>TRACT #24</b>			<b>1.190476%</b>
	Royalty;			12.50%	12.50%	
	Working Interest:			83.50%	83.50%	
	El Paso Natural Gas Co.;			4.00%	4.00%	
	ORRI;			100.00%	100.00%	
	<b>TOTAL</b>					
<b>Fee</b>	<b>T-29-N, R-5-W</b> <b>Sec. 30: SW/4 SE/4</b> <b>Sec. 31: SE/4 NW/4, N/2</b> <b>SW/4 NW/4, W/2 NE/4,</b> <b>SE/4 NE/4</b>	<b>220.00</b>				
			<b>TRACT #30</b>			<b>6.547619%</b>
	Royalty;			12.50%	12.50%	
	Working Interest:			83.50%	83.50%	
	El Paso Natural Gas Co.;			4.00%	4.00%	
	ORRI;			100.00%	100.00%	
	<b>TOTAL</b>					
<b>Fee</b>	<b>T-29-N, R-5-W</b> <b>Sec. 31: W/2 SW/4, NW/4</b> <b>S/2 SW/4 NW/4</b>	<b>100.00</b>				
			<b>TRACT #33</b>			<b>2.976191%</b>
	Royalty;			12.50%	12.50%	
	Working Interest:			58.59%*	58.59%*	
	El Paso Natural Gas Co.;			21.88%	21.88%	
	American Petrofina Co.			7.03%*	7.03%*	
	of Texas;			100.00%	100.00%	
	ORRI;					
	<b>TOTAL</b>					
<b>Fee</b>	<b>T-29-N, R-5-W</b> <b>Sec. 32: E/2 SW/4,</b> <b>W/2 SE/4</b>	<b>160.00</b>				
			<b>TRACT #34</b>			<b>4.761905%</b>
	Royalty;			12.50%	12.50%	
	Working Interest:			87.50%	87.50%	
	Amoco Production Co.;			.00%	.00%	
	ORRI;			100.00%	100.00%	
	<b>TOTAL</b>					

Effective July 1, 1972

SCHEDULE VI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATING
			OWNERSHIP	PERCENTAGE		

RECAPITULATION

Description of lands in Participating Area:

Township 29 North, Range 5 West, N.M.P.M.

- Section 18: W/2
- Section 20: S/2
- Section 29: E/2
- Section 30: W/2, SE/4
- Section 19, 31, 32: All

Total number of acres in Participating Area: 3,360.00  
 Total number of acres committed to Participating Area: 3,360.00

Percent of Basic Royalty Committed: 100.00%  
 Percent of Working Interest Committed: 100.00%  
 Percent of O.R.R.I. Committed: 100.00%

\*Borne by El Paso

Effective July 1, 1972

# El Paso Natural Gas Company

El Paso, Texas 79909

August 11, 1972

418

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

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

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

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
FOURTH EXPANDED PARTICIPATING  
AREA, Dakota Formation, Effective  
April 1, 1972


Gentlemen:

The captioned Expansion was approved by the Regulatory Bodies on the dates indicated:

United States Geological Survey	-	August 8, 1972
Commissioner of Public Lands	-	July 26, 1972
Oil Conservation Commission	-	July 27, 1972

Copies of this letter are being furnished to the working interest owners of the above-described Unit.

Yours very truly,

  
Charles T. Richardson  
Senior Landman  
Land Department  
Energy Resource Development

CTR:nja  
S.J. 29-5 4.3

cc: Mrs. Pepita O. Jeffus, Executive  
Director, New Mexico Oil & Gas  
Accounting Commission



# United States Department of the Interior

## GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

August 8, 1972

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

Attention: Mr. James R. Permenter

Gentlemen:

Your application of July 19, 1972, requesting approval of the fourth revision of the Dakota participating area for the San Juan 29-5 unit agreement, Rio Arriba County, New Mexico, No. 14-08-001-437, was approved on August 8, 1972, by the Acting Area Oil and Gas Supervisor, U. S. Geological Survey, effective as of April 1, 1972.

The fourth revision adds 1,280 acres described as the W $\frac{1}{2}$  sec. 18, the E $\frac{1}{2}$  sec. 19, the S $\frac{1}{2}$  sec. 20 and the N $\frac{1}{2}$  sec. 32, all in T. 29 N., R. 5 W., N.M.P.M., which enlarges the Dakota participating area to 2,880 acres. Such revision is based on the completion data of the following unit wells.

<u>Well No.</u>	<u>Location</u> <u>29 N., 5 W.</u>	<u>Completion Date</u>	<u>Dakota Interval</u>	<u>CAOF</u> <u>MCED</u>
55	SW $\frac{1}{4}$ sec. 18	4-5-72	7,869 to 8,006	3,524
56	NE $\frac{1}{4}$ sec. 19	4-7-72	7,965 to 8,118	3,049
57	SW $\frac{1}{4}$ sec. 20	4-11-72	8,005 to 8,100	4,546
60	NE $\frac{1}{4}$ sec. 32	4-11-72	7,710 to 7,880	4,473

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,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Area Oil and Gas Supervisor

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

JAGillham:lh



OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

July 27, 1972

418

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

Attention: Mr. James R. Permenter

Re: Fourth Expanded Dakota  
Participating Area, San Juan  
29-5 Unit, Rio Arriba County,  
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Fourth Expanded Participating Area of the Dakota formation for the San Juan 29-5 Unit, Rio Arriba 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, Roswell, New Mexico.

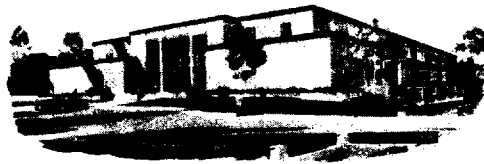
Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe

# State of New Mexico



TELEPHONE

503-827-2748

## Commissioner of Public Lands

ALEX J. ARMIJO  
COMMISSIONER

July 26, 1972

P. O. Box 1148  
SANTA FE, NEW MEXICO

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

Re: San Juan 20-5 Unit  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE FOURTH  
EXPANDED PARTICIPATING AREA, DAKOTA  
FORMATION, Effective April 1, 1972

ATTENTION: Mr. James R. Purcenter

Gentlemen:

The Commissioner of Public Lands has this date approved your application for approval of the Fourth Expanded Participating Area, Dakota Formation, for the San Juan 20-5 Unit. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are retaining two copies and handing six approved copies to the Oil Conservation Commission requesting them to forward five copies to the United States Geological Survey in Roswell, New Mexico.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s

cc: OCC-Santa Fe, New Mexico (cpy of ltr and 6 cyps of application)  
USGS-Roswell, New Mexico (cpy of ltr only)

# El Paso Natural Gas Company

El Paso, Texas 79978

July 20, 1972

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

Re: San Juan 29-5 Unit #14-08-001-437,  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE FOURTH  
EXPANDED PARTICIPATING AREA, DAKOTA  
FORMATION, Effective April 1, 1972.

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the Fourth Expanded Participating Area of the Dakota 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  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:CTR:dks  
Enclosures  
S.J. 29-5, 4.3

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

# El Paso Natural Gas Company

El Paso, Texas 79978

July 19, 1972

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

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

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

Re: San Juan 29-5 Unit #14-08-001-437,  
Rio Arriba County, New Mexico,  
APPLICATION FOR APPROVAL OF THE FOURTH  
EXPANDED PARTICIPATING AREA, DAKOTA  
FORMATION, Effective April 1, 1972.

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 29-5 Unit Agreement #14-08-001-437, approved November 21, 1952, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Fourth Expanded Participating Area for the Dakota formation, to wit:

FOURTH EXPANDED PARTICIPATING AREA - Effective April 1, 1972

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 29 North, Range 5 West, N.M.P.M.</u>	
Section 18: W/2	320.00
Section 19: E/2	320.00
Section 20: S/2	320.00
Section 32: N/2	320.00
	<u>1280.00</u>

This proposed Fourth Revision of the Total Participating Area for the Dakota formation is predicated upon the determination by El Paso

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

Natural Gas Company, as Unit Operator, that the San Juan 29-5 Unit #55, #56, #57 and #60 Dakota Wells, which were completed outside the limits of the existing Dakota Participating Area, are capable of producing unitized substances in paying quantities from the Dakota formation. These wells are as follows:

The San Juan 29-5 Unit #55 Well is located 1100' from the South line and 860' from the West line of Section 18, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. Said well was spudded on February 3, 1972, and completed on March 29, 1972, in the Dakota formation at a total depth of 8027'. The Dakota formation in the intervals between 7869' - 7884', 7943' - 7958', and 7996' - 8006' was treated with a sand-water fracturing process on March 28, 1972. The Dakota formation was shut-in on March 29, 1972, and after being shut-in for seven (7) days, the Dakota formation was tested on April 5, 1972, and following a three (3) hour blow-down period gauged 3451 MCFGPD through a 3/4" choke and 3524 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2739 psia and an SIPT of 2739 psia.

The San Juan 29-5 Unit #56 Well is located 1550' from the North line and 1460' from the East line of Section 19, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. Said well was spudded on February 15, 1972, and completed on March 31, 1972, in the Dakota formation at a total depth of 8130'. The Dakota formation in the intervals between 7965' - 7981', 8044' - 8060', and 8102' - 8118' was treated with a sand-water fracturing process on March 30, 1972. The Dakota formation was shut-in on March 31, 1972, and after being shut-in for seven (7) days, the Dakota formation was tested on April 7, 1972, and following a three (3) hour blow-down period gauged 2991 MCFGPD through a 3/4" choke and 3049 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2806 psia and an SIPT of 2628 psia.

The San 29-5 Unit #57 Well is located 1160' from the South line and 1160' from the West line of Section 20, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. Said well was spudded on February 29, 1972, and completed on April 2, 1972, in the Dakota formation at a total depth of 8180'. The Dakota formation in the intervals between 8005' - 8020', and 8085' - 8100' was treated with a sand-water fracturing process on April 1, 1972. The Dakota formation was shut-in on April 2, 1972, and after being shut-in for eight (8) days, the Dakota formation was tested on April 11, 1972, and following a three (3) hour blow-down period gauged 4393 MCFGPD through a 3/4" choke and 4546 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2622 psia and an SIPT of 2597 psia.

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

The San Juan 29-5 Unit #60 Well is located 1090' from the North line and 990' from the East line of Section 32, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. Said well was spudded on March 11, 1972, and completed on April 3, 1972, in the Dakota formation at a total depth of 7958'. The Dakota formation in the intervals between 7710' - 7716', 7728' - 7734', 7780' - 7792', and 7756' - 7880' was treated with a sand-water fracturing process on April 3, 1972. The Dakota formation was shut-in on April 4, 1972, and after being shut-in for seven (7) days, the Dakota formation was tested on April 11, 1972, and following a three (3) hour blow-down period gauged 4321 MCFGPD through a 3/4" choke and 4473 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2574 psia and an SIPT of 2477 psia.

In support of this application the following listed Exhibits are made a part hereof:

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Fourth Expansion of the Participating Area of the Dakota formation within the San Juan 29-5 Unit.

EXHIBIT "B"

Geological Report on the Fourth Expansion of the Participating Area of the Dakota formation within the San Juan 29-5 Unit.

EXHIBIT "C"

Plate No. 1: San Juan 29-5 Dakota Structure Map  
Plate No. 2: San Juan 29-5 Dakota Isopach Map

EXHIBIT "D"

Table 1: Schedule of San Juan 29-5 Unit Dakota production and deliverability.

Attached hereto is Schedule V showing the proposed Fourth Expanded Participating Area for the Dakota formation in the San Juan 29-5 Unit Area. This Schedule describes the Participating Area, shows the percentage of unitized substances allocated to each unitized tract, and the percentage of ownership in the tracts.

If the Fourth Expanded Participating Area of the Dakota formation meets with your approval, please indicate such approval in the space provided on the attached sheet and return an approved copy hereof for our files.

Regional Oil & Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
Page Four

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

Yours very truly,

A handwritten signature in black ink, appearing to read "James R. Permenter", with a stylized flourish at the end.

James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:CTR:dks  
Enclosures  
S.J. 29-5 Unit, 4.3

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission  
Post Office Box 2308  
Santa Fe, New Mexico 87501

APPROVED: \_\_\_\_\_

Regional Oil and 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: July 26, 1972

APPROVED: \_\_\_\_\_

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

DATE: July 27, 1972

The foregoing approval is for the Fourth Expanded Participating Area of the  
Dakota formation, San Juan 29-5 Unit, #14-08-001-437, Rio Arriba County, New Mexico.



SAN JUAN 29-5 UNIT  
Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3)

Mr. Tom Bolack

General American Oil Company of Texas

Koch Industries, Inc.

Mrs. Catherine B. McElvain, Individually  
and as Executrix of the Estate of  
T. H. McElvain, Deceased

Mr. James E. McElvain, Executor for the  
Estate of Carl R. McElvain, Deceased

Mr. J. William McElvain

Mr. Forrest B. Miller and  
Mabelle M. Miller

Phillips Petroleum Company

Sun Oil Company - DX Division

Ruth M. Vaughan

The Wiser Oil Company

# El Paso Natural Gas Company

El Paso, Texas 79978

May 23, 1972

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

4/18

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

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

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
FIRST, SECOND AND THIRD EXPANDED  
PARTICIPATING AREAS, Dakota  
Formation, Effective March 1, 1971,  
April 1, 1971, and May 1, 1971,  
Respectively

Gentlemen:

The captioned Expansions were approved by the Regulatory Bodies on the dates indicated:

United States Geological Survey	-	May 16, 1972
Commissioner of Public Lands	-	February 22, 1972
Oil Conservation Commission	-	February 24, 1972

Copies of this letter are being furnished to the working interest owners of the above described Unit.

Yours very truly,

*Charles T. Richardson*

Charles T. Richardson  
Senior Landman  
Land Department  
Energy Resource Development

CTR:dks  
SJ 29-5 4.3

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission

# *El Paso Natural Gas Company*

*El Paso, Texas* 79978

June 12, 1972

415

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

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

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

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL, Dakota Formation

Gentlemen:

Pursuant to Section 11(b) of the San Juan 29-5 Unit Agreement #14-08-001-437 approved on November 21, 1952, 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 from the Dakota Formation has been completed upon acreage committed to the subject Unit. This well is as follows:

The San Juan 29-5 Unit #58 Well, located 800' from the South line and 1500' from the West line of Section 30, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on March 21, 1972 and completed on April 7, 1972 in the Dakota Formation at a total depth of 7875'. The Dakota Formation in the intervals between 7714' - 7726', 7760' - 7766', 7780' - 7786', 7798' - 7804', 7816' - 7822, was treated with a sand-water fracturing process on April 5, 1972. The well was shut-in on April 7, 1972, and after being shut-

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

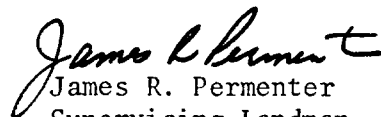
June 12, 1972

in for seven (7) days, the well was tested on April 14, 1972, and following a three (3) hour blow-down period, the Dakota Formation gauged 2155 MCFGPD through a 3/4" choke, and 2182 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2612 psia and a SIPT of 2239 psia. The committed spacing unit upon which this well is located is described as the W/2 of Section 30, Township 29 North, Range 5 West, N.M.P.M., containing 320.00 acres, for Unit purposes.

The spacing unit from this well was included in the San Juan 29-5 Unit Second Expanded Dakota Participating Area effective April 1, 1971, and the completion of this well does not warrant any further Expansion of the Dakota Participating Area.

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

Very truly yours,



James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JP:CTR:dks  
SJ 29-5 Unit 4.3.1  
NM-6528  
NM-6683  
NM-6680

cc: Mrs. Pepita O. Jeffus

SAN JUAN 29-5 UNIT  
Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3)

Mr. Tom Bolack

General American Oil Company of Texas

Koch Industries, Inc.

Mrs. Catherine B. McElvain, Individually  
and as Executrix of the Estate of  
T. H. McElvain, Deceased

Mr. James E. McElvain, Executor for the  
Estate of Carl R. McElvain, Deceased

Mr. J. William McElvain

Mr. Forrest B. Miller and  
Mabelle M. Miller

Phillips Petroleum Company

Sun Oil Company - DX Division

Ruth M. Vaughan

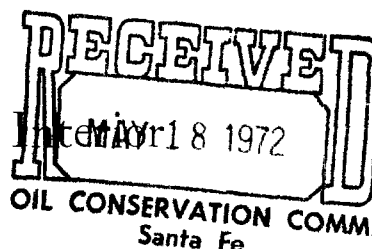
The Wiser Oil Company



United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201



May 16, 1972

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

Attention: Mr. James R. Permenter

Gentlemen:

Your application of February 15, 1972, requesting approval of the first, second, and third revisions of the Dakota participating area for the San Juan 29-5 unit agreement, Rio Arriba County, New Mexico, 14-08-001-437, was approved on May 16, 1972, by the Acting Oil and Gas Supervisor, U. S. Geological Survey, effective as of March 1, 1971, April 1, 1971, and May 1, 1971, respectively.

The first revision adds 640.00 acres described as the E $\frac{1}{4}$  sec. 29 and the S $\frac{1}{4}$  sec. 32, T. 29 N., R. 5 W., N.M.P.M., which increases the Dakota participating area from 320.00 acres to 960.00 acres. This revision is based upon the information contributed by the completion of unit wells No. 52 and No. 53. Unit well No. 52 located in the NE $\frac{1}{4}$  sec. 29, T. 29 N., R. 5 W., N.M.P.M., was completed February 28, 1971, for a calculated open flow potential of 5,126 MCFGPD from the Dakota interval 8,010 to 8,163 feet. Unit well No. 53 located in the SW $\frac{1}{4}$  sec. 32, T. 29 N., R. 5 W., N.M.P.M., was completed March 15, 1971, for a calculated open flow potential of 2,181 MCFGPD from the Dakota interval 7,718 to 7,858 feet.

The second revision adds 320.00 acres described as the W $\frac{1}{4}$  sec. 30, T. 29 N., R. 5 W., N.M.P.M., which increases the Dakota participating area from 960.00 acres to 1280.00 acres. Such revision is based upon the information contributed by the completion of San Juan 29-5 Unit well No. 82, an offset Dakota well, located in the NE $\frac{1}{4}$  sec. 25, T. 29 N., R. 6 W., N.M.P.M., and brings the lands represented by the second revision, San Juan 29-5 Unit, into Dakota participation on an inference basis. San Juan 29-5 Unit well No. 82 was completed March 28, 1971, for a calculated open flow potential of 6,665 MCFGPD from the Dakota interval 7,896 to 8,038 feet.

The third revision adds 320.00 acres described as the W $\frac{1}{2}$  sec. 31, T. 29 N., R. 5 W., N.M.P.M., which increases the Dakota participating area from 1280.00 acres to 1600.00 acres. This revision is based upon the information contributed by the completion of Unit well No. 54 located in the SW $\frac{1}{4}$  sec. 31, T. 29 N., R. 5 W., N.M.P.M. Such well was completed May 6, 1971, for a calculated open flow potential of 3,765 MCFGPD from the Dakota interval 7,764 to 7,860 feet.

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

Sincerely yours,

(C.C.S.) :177

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

cc:

Washington (w/cy appln.)

Durango (w/cy appln.)

BLN, Santa Fe (w/ ltr only)

NEOCC, Santa Fe (w/ltr. only) ✓

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

JFisher:lh

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 24, 1972

El Paso Natural Gas Company  
Box 1492  
El Paso, Texas 79978

Attention: Mr. James R. Permenter

Re: First, Second, and Third  
Expansions, Dakota  
Participating Area, San  
Juan 29-5 Unit, Rio Arriba  
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the First, Second, and Third Expansions of the Dakota Participating Area for the San Juan 29-5 Unit, Rio Arriba 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.

Seven approved copies of the application are being forwarded to the United States Geological Survey, Roswell, New Mexico.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey - Roswell  
Commissioner of Public Lands - Santa Fe



February 22, 1972

**RECEIVED**

**FEB 22 1972**

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

Oil Conservation Comm.  
Santa Fe

Re: San Juan 29-5 Unit  
First, Second and Third Expanded  
Participating Areas, Dakota  
Formation  
Rio Arriba County, New Mexico

ATTENTION: Mr. James R. Permenter

Gentlemen:

The Commissioner of Public Lands has this date approved your application for approval of the First, Second and Third Expanded Participating Areas, Dakota Formation, for the San Juan 29-5 Unit. This approval is subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We received ten copies of the application instead of eight as stated in your letter. We are retaining two copies and handing eight approved copies to the Oil Conservation Commission, requesting them to forward seven copies to the United States Geological Survey in Roswell, New Mexico.

Very truly yours,

RAY D. GRAHAM, Director  
Oil and Gas Department

AJA/RDG/s

cc:

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

# El Paso Natural Gas Company

El Paso, Texas 79978

February 15, 1972

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

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

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

Re: San Juan 29-5 Unit #14-08-001-437,  
Rio Arriba County, New Mexico,  
APPLICATION FOR APPROVAL OF THE  
FIRST, SECOND AND THIRD EXPANDED  
PARTICIPATING AREAS, DAKOTA FORMATION,  
Effective March 1, 1971, April 1, 1971  
and May 1, 1971, Respectively.

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 29-5 Unit Agreement #14-08-001-437, approved November 21, 1952, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the First, Second and Third Expanded Participating Areas for the Dakota formation, to wit:

FIRST EXPANDED PARTICIPATING AREA - Effective March 1, 1971

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 29 North, Range 5 West, N.M.P.M.</u>	
Section 29: E/2	320.00
Section 32: S/2	320.00
	<u>640.00</u>

This proposed First Revision of the Total Participating Area for the Dakota formation is predicated upon the determination by El Paso

February 15, 1972

Natural Gas Company, as Unit Operator, that the San Juan 29-5 Unit #52 and #53 Dakota Wells are capable of producing unitized substances in paying quantities from the Dakota formation. These wells are as follows:

The San Juan 29-5 Unit #52 Well is located 1650' from the North line and 1450' from the East line of Section 29, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. Said well was spudded on February 9, 1971, and completed on February 28, 1971, in the Dakota formation at a total depth of 8212'. The Dakota formation in the intervals between 8010'-8026', 8076'-8088', 8106'-8114' and 8159'-8163' was treated with a sand-water fracturing process on February 26, 1971. The Dakota formation was shut-in on February 28, 1971, and after being shut-in for nine (9) days, the Dakota formation was tested on March 9, 1971, and following a three (3) hour blow-down period gauged 4914 MCFGPD through a 3/4" choke and 5126 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2617 psia and an SIPT of 2621 psia.

The San Juan 29-5 Unit #53 Well is located 1800' from the South line and 800' from the West line of Section 32, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. Said well was spudded on March 1, 1971, and completed on March 15, 1971, in the Dakota formation at a total depth of 7927'. The Dakota formation in the intervals between 7718'-7730', 7802'-7816' and 7846'-7858' was treated with a sand-water fracturing process on March 14, 1971. The Dakota formation was shut-in on March 16, 1971, and after being shut-in for seven (7) days, the Dakota formation was tested on March 23, 1971, and following a three (3) hour blow-down period gauged 2159 MCFGPD through a 3/4" choke and 2181 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2320 psia and an SIPT of 2320 psia.

SECOND EXPANDED PARTICIPATING AREA - Effective April 1, 1971

<u>Description of Lands</u>	<u>Acres</u>
Township 29 North, Range 5 West, N.M.P.M.	
Section 30: W/2	320.00

This proposed Second Revision of the Participating Area for the Dakota formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the San Juan 29-6 Unit #82 offset Dakota Well is capable of producing unitized substances in paying quantities from the Dakota formation, and brings these lands into participation on an inference basis. This well is as follows:

The San Juan 29-6 Unit #82 Well is located 1090' from the North line and 1138' from the East line of Section 25, Township 29 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. Said well was spudded on March 14, 1971, and completed on March 28, 1971, in the Dakota formation at a total depth of 8048'. The Dakota formation in the intervals between 7896'-7914', 7958'-7970', 7996'-8002' and 8032'-8038' was treated with a sandwater fracturing process on March 27, 1971. The Dakota formation was shut-in on March 28, 1971, and after being

February 15, 1972

shut-in for nine (9) days, the Dakota formation was tested on April 6, 1971, and following a three (3) hour blow-down period gauged 6281 MCFGPD through a 3/4" choke and 6665 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2689 psia and an SIPT of 2262 psia.

THIRD EXPANDED PARTICIPATING AREA - Effective May 1, 1971

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 29 North, Range 5 West, N.M.P.M.</u>	
<u>Section 31: W/2</u>	320.00

This proposed Third Revision of the Participating Area for the Dakota formation is predicated upon the determination by El Paso Natural Gas Company, as Unit Operator, that the San Juan 29-5 Unit #54 Dakota Well is capable of producing unitized substances in paying quantities from the Dakota formation. This well is as follows:

The San Juan 29-5 Unit #54 Well is located 1180' from the South line and 1740' from the West line of Section 31, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. Said well was spudded on April 23, 1971, and completed on May 6, 1971, in the Dakota formation at a total depth of 7948'. The Dakota formation in the intervals between 7764'-7776' and 7848'-7860' was treated with a sand-water fracturing process on May 5, 1971. The Dakota formation was shut-in on May 6, 1971, and after being shut-in for fourteen (14) days, the Dakota formation was tested on May 20, 1971, and following a three (3) hour blow-down period gauged 3698 MCFGPD through a 3/4" choke and 3785 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2707 psia and an SIPT of 2702 psia.

Production from the above wells was observed for a number of months to also confirm these determinations.

In support of this application the following listed Exhibits are made a part hereof:

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed First, Second and Third Expansions of the Participating Area of the Dakota formation within the San Juan 29-5 Unit.

EXHIBIT "B"

Geological Report on the First, Second and Third Expansions of the Participating Area of the Dakota formation within the San Juan 29-5 Unit.

EXHIBIT "C"

Plate No. 1: San Juan 29-5 Dakota Structure Map  
Plate No. 2: San Juan 29-5 Dakota Isopach Map

February 15, 1972

EXHIBIT "D"

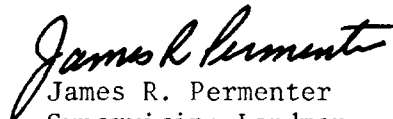
Table 1: Schedule of San Juan 29-5 Unit Dakota production and deliverability.

Attached hereto are Schedules II, III and IV showing the proposed First, Second and Third Expanded Participating Areas for the Dakota formation in the San Juan 29-5 Unit Area. These Schedules describe the Participating Areas, show the percentage of unitized substances allocated to each unitized tract, and the percentage of ownership in the tracts.

If the First, Second and Third Expanded Participating Areas of the Dakota formation meet with your approval, please indicate such approval in the space provided on the attached sheet and return an approved copy hereof for our files.

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

Yours very truly,



James R. Permenter  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:CTR:khs  
Enclosures  
San Juan 29-5  
Unit, 4.3

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission  
Post Office Box 2308  
Santa Fe, New Mexico 87501

APPROVED:

Regional Oil and 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:

The foregoing approvals are for the First, Second and Third Expanded Participating Areas of the Dakota formation, San Juan 29-5 Unit, #14-08-001-437, Rio Arriba County, New Mexico.

SAN JUAN 29-5 UNIT  
Working Interest Owners

American Petrofina Company of Texas

Amoco Production Company (3)

Mr. Tom Bolack

General American Oil Company of Texas

Koch Industries, Inc.

Mrs. Catherine B. McElvain, Individually  
and as Executrix of the Estate of  
T. H. McElvain, Deceased

Mr. James E. McElvain, Executor for the  
Estate of Carl R. McElvain, Deceased

Mr. J. William McElvain

Mr. Forrest B. Miller and  
Mabelle M. Miller

Phillips Petroleum Company

Sun Oil Company - DX Division

Ruth M. Vaughan

The Wiser Oil Company

# El Paso Natural Gas Company

El Paso, Texas 79978

February 15, 1972

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

Re: San Juan 29-5 Unit #14-08-001-437,  
Rio Arriba County, New Mexico,  
APPLICATION FOR APPROVAL OF THE  
FIRST, SECOND AND THIRD EXPANDED  
PARTICIPATING AREAS, DAKOTA FORMATION,  
Effective March 1, 1971, April 1, 1971  
and May 1, 1971, Respectively.

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the First, Second and Third Expanded Participating Areas for the Dakota Formation.

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  
Supervising Landman  
Land Department  
Energy Resource Development

JRP:CTR:khs  
Enclosures  
S.J. 27-5, 4.3

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

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



El Paso Natural Gas Company

El Paso, Texas 79999

July 10, 1970

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

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

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

Re: San Juan 29-5 Unit #14-08-001-  
437, Rio Arriba County, New Mexico,  
INITIAL PARTICIPATING AREA, Dakota  
Formation, Effective March 2, 1970

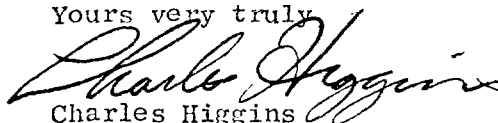
Gentlemen:

The Initial Dakota Participating Area for the referenced Unit was approved by the Regulatory Bodies on the dates indicated:

United States Geological Survey	July 7, 1970
Commissioner of Public Lands	May 28, 1970
Oil Conservation Commission	June 4, 1970

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

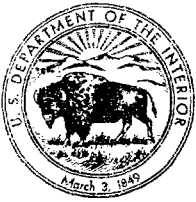
Yours very truly



Charles Higgins  
Supervising Landman  
Land Department

CH:DI:sf  
San Juan 29-5  
Unit, 4.3

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Drawer 1857  
Roswell, New Mexico 88201

IN REPLY REFER TO:

88  
JUL 9 PM 1 08  
1970

July 7, 1970

El Paso Natural Gas Company  
P.O. Box 1492  
El Paso, Texas 79099

Attention: Mr. Charles Higgins

Gentlemen:

Your application for the initial Dakota participating area for the San Juan 29-5 unit agreement, No. 14-08-001-437, Rio Arriba County, New Mexico, was approved on July 7, 1970, by the Acting Oil and Gas Supervisor, Geological Survey, effective as of March 2, 1970.

The initial Dakota participating area, consisting of 320 acres and described as the W $\frac{1}{2}$  sec. 19, T. 29 N., R. 5 W., is based upon the completion of San Juan 29-5 unit well No. 51. Such well is located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 19, T. 29 N., R. 5 W., and was completed on March 2, 1970, for an absolute open flow potential of 5,674 MCFOPD from the Dakota Formation in the interval from 7,928 feet to 8,008 feet.

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,

(ORIG. SGD.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

cc:

Washington (w/cy appln)  
Durango (w/cy appln) ✓  
N.M.O.C.C., Santa Fe (ltr only)  
Com. of Pub. Lands, Santa Fe (ltr only)

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

June 4, 1970

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

Attention: Mr. Charles Higgins

Re: Initial Participating Area  
Dakota Formation, San Juan  
29-5 Unit, Rio Arriba County,  
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Initial Participating Area, Dakota Formation for the San Juan 29-5 Unit, Rio Arriba 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, Roswell, New Mexico.

Very truly yours,

A. L. PORTER, Jr.  
Secretary-Director

ALP/JEK/og

cc: United States Geological Survey  
Roswell, New Mexico 88201

Commissioner of Public Lands  
Santa Fe, New Mexico 87501

May 28, 1970

C  
C  
P  
Y

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

Re: San Juan 29-5 Unit  
INITIAL PARTICIPATING AREA  
Dakota Formation-Effective  
March 2, 1970

ATTENTION: Mr. Charles Higgins

Gentlemen:

The Commissioner of Public Lands has this date approved your application for the Initial Participating Area, Dakota Formation for the San Juan 29-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are retaining two copies and handing six approved copies to the Oil Conservation Commission, requesting them to forward five copies to the United States Geological Survey in Roswell, New Mexico.

Very truly yours,

Ted Bilberry, Director  
Oil and Gas Department

TB/ML/s

cc: OCC-Santa Fe, New Mexico  
USGS-Roswell, New Mexico

RECEIVED  
OIL CONSERVATION COMMISSION

# El Paso Natural Gas Company

El Paso, Texas 79999

May 26, 1970

AM 8 11  
70 MAY

415

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

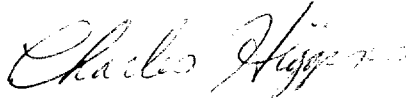
Re: San Juan 29-5 Unit #14-08-001-  
437, Rio Arriba County, New  
Mexico, APPLICATION FOR APPROVAL  
OF THE INITIAL PARTICIPATING  
AREA, Dakota Formation, Effective  
March 2, 1970

Gentlemen:

We are enclosing for your approval eight (8) copies of an Application for Approval of the Initial Participating Area of the Dakota 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 their 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 their 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,



Charles Higgins  
Supervising Landman  
Land Department

CH:CTR:sf  
Enclosures

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

COPY

# El Paso Natural Gas Company

El Paso, Texas 79999

May 26, 1970

MAY 27 10 01 AM '70  
SANTA FE, N.M.

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

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

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

Re: San Juan 29-5 Unit #14-08-001-  
437, Rio Arriba County, New  
Mexico, APPLICATION FOR APPROVAL  
OF THE INITIAL PARTICIPATING  
AREA, DAKOTA FORMATION, Effective  
March 2, 1970

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 29-5 Unit Agreement #14-08-001-437, approved November 21, 1952, El Paso Natural Gas Company, as Unit Operator, hereby respectfully requests approval of the Initial Participating Area for the Dakota formation, to wit:

INITIAL PARTICIPATING AREA - Effective March 2, 1970

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 29 North, Range 5 West, N.M.P.M.</u>	
<u>Section 19: W/2</u>	320.00

This proposed Initial Participating Area for the Dakota formation is predicated upon the determination by El Paso Natural Gas Company,

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

May 26, 1970

as Unit Operator, that the San Juan 29-5 Unit #51 Dakota Well is capable of producing unitized substances in paying quantities from the Dakota formation. This well is as follows:

The San Juan 29-5 Unit #51 Well is located 1150' from the South line and 1150' from the West line of Section 19, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. Said well was spudded on February 6, 1970, and completed on February 18, 1970, at a total depth of 8097'. The Dakota formation in the intervals between 7928' - 7938', 7989' - 7995', 8005' - 8012', 8022' - 8030', 8040' - 8048' and 8060' - 8068' was treated with a sand-water fracturing process on February 19, 1970. The Dakota formation was shut-in on February 21, 1970, and after being shut-in for nine (9) days, the Dakota formation was tested on March 2, 1970, and following a three (3) hour blow-down period gauged 5429 MCFGPD through a 3/4" choke and 5674 MCFGPD by the calculated absolute open-flow method, with an SIPC of 2782 psia and an SIPT of 2782 psia.

In support of this application the following listed Exhibits are made a part hereof:

EXHIBIT "A"

Ownership map reflecting the boundaries of the Unit and the proposed Initial Participating Area of the Dakota formation within the San Juan 29-5 Unit.

EXHIBIT "B"

Geological Report on the Initial Participating Area of the Dakota formation within the San Juan 29-5 Unit.

EXHIBIT "C"

Plate No. 1: San Juan 29-5 Dakota Structure Map  
Plate No. 2: San Juan 29-5 Dakota Isopach Map

Attached hereto is Schedule I showing the proposed Initial Participating Area for the Dakota formation in the San Juan 29-5 Unit Area. This Schedule describes the Participating Area, shows the percentage of unitized substances allocated to the unitized tract, and the percentages of ownership in the tract.

Regional Oil & Gas Supervisor

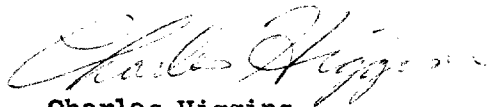
May 26, 1970

Commissioner of Public Lands  
Oil Conservation Commission  
Page Three

If this Initial Participating Area of the Dakota formation meets with your approval, please indicate such approval in the space provided on the attached sheet and return an approved copy hereof for our files.

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

Yours very truly,



Charles Higgins  
Supervising Landman  
Land Department

CH:CTR:sf  
Enclosures  
San Juan 29-5  
Unit, 4.3

cc: Mrs. Pepita O. Jeffus  
Executive Director  
New Mexico Oil & Gas Accounting Commission  
P. O. Box 2308  
Santa Fe, New Mexico 87501



APPROVED: \_\_\_\_\_  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Subject to like approval by the  
appropriate State officials.

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

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

DATE: 5-28-70

APPROVED: A. H. Carter  
Oil Conservation Commission  
Subject to like approval by the United  
States Geological Survey and the  
Commissioner of Public Lands.

DATE: June 4, 1970

The foregoing approvals are for the Initial Participating Area for the  
Dakota Formation, San Juan 29-5 Unit #14-08-001-437, Rio Arriba County,  
New Mexico.

SAN JUAN 29-5 UNIT  
Working Interest Owners

American Petrofina Company of Texas

Mr. Tom Bolack

General American Oil Company of Texas

Koch Industries, Inc.

Mrs. Catherine B. McElvain, Individually  
and as Executrix of the Estate of  
T. H. McElvain, Deceased

Mr. James E. McElvain, Executor for the  
Estate of Carl R. McElvain, Deceased

Mr. J. William McElvain

Mr. Forrest B. Miller and  
Mabelle M. Miller

Pan American Petroleum Corporation (3)

Phillips Petroleum Company

Southern Petroleum Exploration, Inc.

Sun Oil Company - DX Division

Ruth M. Vaughan

Drawer 1857  
Roswell, New Mexico

December 28, 1962

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

Attention: Mr. Sam Smith

Gentlemen:

Your 1962 plan of development dated December 18, 1962, for the San Juan 29-5 unit area, Rio Arriba County, New Mexico, advising that the Mesaverde well drilled in the E $\frac{1}{2}$  sec. 8, T. 29 N., R. 5 W., N.M.P.M., is the only well scheduled for 1962, has been approved for record purpose on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Very truly yours,

(Encl. Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK  
Acting Oil and Gas Supervisor

Copy to: Washington (w/cy of plan)  
Farmington (w/cy of plan)  
N.M.O.C.C. - Santa Fe (ltr. only) -  
Com. of Pub. Lands - Santa Fe (ltr. only)

# El Paso Natural Gas Company

El Paso, Texas

September 19, 1962

448

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL WELL  
Mesaverde Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 29-5 Unit Agreement, #14-08-001-437, approved November 21, 1952, El Paso Natural Gas Company, as Unit Operator, has determined on the date set out below that the following additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to the unit.

The San Juan 29-5 Unit #21 Well is located 1650' from the North line and 1550' from the East line of Section 8, Township 29 North, Range 5 West, Rio Arriba County, New Mexico. This well was spudded on June 14, 1962, and completed on June 30, 1962, in the Mesaverde Formation, at a total depth of 5945'. The Mesaverde Formation between 5484' - 5488', 5788' - 5792', 5806' - 5810', 5842' - 5846', 5860' - 5864', 5886' - 5890' was treated with a sand-water fracturing process on June 29, 1962. The well was shut-in on July 13, 1962, and after being shut-in for gauge for seven (7) days, the well was tested on July 20, 1962, and following a three (3) hour blow-down period gauged 5322 MCFGPD through a 3/4" choke, and 6421 MCFGPD by the calculated absolute open-flow method, with an SIPC of 1054 PSIA and an SIPT of 1058

PSIA. The committed drilling block upon which this well is located is described as the E/2 of Section 8, Township 29 North, Range 5 West, N.M.P.M., and consists of 320.00 acres.


This drilling block was included in the San Juan 29-5 Twenty-First Expanded Participating Area for the Mesaverde Formation, effective July 1, 1961, as an intervening drilling block, and therefore, the participating area is not enlarged.

A copy of this letter is being sent to each of the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By



T. W. Bittick  
Assistant Manager  
Land Department

TWB:GWO:ojp

**SAN JUAN 29-5 UNIT**  
**Working Interest Owners**

American Petrofina Company of Texas  
P. O. Box 2159  
Dallas 21, Texas

Mr. Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

General American Oil Company of Texas  
Attention: Mr. James W. Goss, Jr.  
Meadows Building  
Dallas 6, Texas

Mr. T. H. McElvain  
220 Shelby Street  
Santa Fe, New Mexico

Pan American Petroleum Corporation (12)  
Attention: Mr. T. M. Curtis  
P. O. Box 480  
Farmington, New Mexico

Phillips Petroleum Company  
Attention: Mr. R. F. Rood or Mr. V. H. Stone  
508 Bank Building  
Bartlesville, Oklahoma

Phillips Petroleum Company  
Attention: Division Landman  
Land & Geological Department  
1200 Denver Club Building  
Denver 2, Colorado

Rock Island Oil & Refining Co., Inc.  
321 West Douglas  
Wichita, Kansas

Southern Petroleum Exploration, Inc.  
Attention: Mr. John C. Wright  
P. O. Box 192  
Sistersville, West Virginia

Sunray D-X Oil Company  
Attention: Mr. A. W. Wadman, Jr.  
101 University Building  
Cherry Creek Center  
Denver 6, Colorado

# El Paso Natural Gas Company

El Paso, Texas

August 10, 1962

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Re: Revised Exhibit "B"  
San Juan 29-5 Unit  
Rio Arriba County,  
New Mexico

Gentlemen:

You will find enclosed copies of the San Juan 29-5 Unit Exhibit "B" which has been revised effective July 1, 1962.

This Exhibit "B" was mailed to the working interest owners of the San Juan 29-5 Unit under date of July 25, 1962, and they were advised that if they should have any corrections or changes, to notify El Paso within ten (10) days. As of this date, no working interest owner has notified El Paso of any correction or changes, therefore, this Exhibit "B" is presumed to reflect the correct interests of each working interest owner.

Copies of this letter are being sent to the working interest owners of the San Juan 29-5 Unit.

Very truly yours,

*Charles T. Richardson*  
Charles T. Richardson  
Area Coordinator  
Land Department

CTR:GWO:js

# El Paso Natural Gas Company

El Paso, Texas

October 19, 1961

418

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P.O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P.O. Box 871  
Santa Fe, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL WELL  
Mesaverde Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 29-5 Unit Agreement, #14-08-001-437, approved November 21, 1952, El Paso Natural Gas Company, as Unit Operator, has determined on the date set out below that the following additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to the unit.

The San Juan 29-5 Unit #17 Well is located 1040' from the North line and 1180' from the East line of Section 5, Township 29 North, Range 5 West, Rio Arriba County, New Mexico. This well was spudded on August 30, 1961, and completed on September 15, 1961, at a total depth of 5808' and a clean-out depth of 5760'. The Mesaverde Formation between 5306' - 5310', 5600' - 5608', 5618' - 5626', 5640' - 5648', 5666' - 5674', 5682' - 5690', and 5736' - 5744' was treated with a sand-water fracturing process. The well was shut-in on September 15, 1961, and after being shut-in for gauge for thirteen (13) days, the well was tested on September 28, 1961, and following a three (3) hour blow-down period gauged 2201 MCFGPD through a 3/4" choke, and 2647 MCFGPD by the calculated absolute open-flow method, with an SIPC of 1120 psia and an SIPT of 1121 psia. The committed drilling block upon which this well is located is described as the E/2 of Section

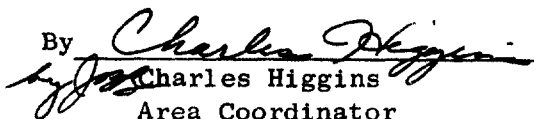


5, Township 29 North, Range 5 West, N.M.P.M., and consists of 321.24 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Mesaverde Formation was made on September 28, 1961. This drilling block was included in the San Juan 29-5 Twentieth Expanded Participating Area for the Mesaverde Formation, effective November 1, 1960, as an intervening drilling block, and therefore, the participating area is not enlarged.

A copy of this letter is being sent to each of the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By   
Charles Higgins  
Area Coordinator  
Land Department

CH:GA:cah

SAN JUAN 29-5 UNIT  
WORKING INTEREST OWNERS

American Petrofina Company of Texas  
P.O. Box 2159  
Dallas 21, Texas

Mr. Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

General American Oil Company of Texas  
Attention: Mr. James W. Goss, Jr.  
Meadows Building  
Dallas 6, Texas

Mr. T. H. McElvain  
220 Shelby Street  
Santa Fe, New Mexico

Pan American Petroleum Corporation  
Attention: Mr. T. M. Curtis  
P.O. Box 480  
Farmington, New Mexico

Phillips Petroleum Company  
Attention: Division Landman  
Land and Geological Department  
1200 Denver Club Building  
Denver 2, Colorado

Phillips Petroleum Company  
Attention: Mr. R.F. Rood or V. H. Stone  
508 Bank Building  
Bartlesville, Oklahoma

Rock Island Oil & Refining Company  
321 West Douglas  
Wichita, Kansas

Southern Petroleum Exploration, Inc.  
Attention: Mr. Paul W. Neuenschwander  
P.O. Box 192  
Sistersville, West Virginia

Sunray Mid-Continent Oil Company  
Attention: Mr. A. W. Wadman, Jr.  
101 University Building  
Cherry Creek Center  
Denver 6, Colorado

# El Paso Natural Gas Company

*El Paso, Texas*

August 1, 1961

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
Of the State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF NON-  
COMMERCIAL WELL IN THE MESAVERDE  
FORMATION

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Gentlemen:

Pursuant to the provisions of Section 11(a) of the San Juan 29-5 Unit Agreement, approved November 21, 1952, El Paso Natural Gas Company, as Successor Unit Operator to Pacific Northwest Pipeline Corporation, has determined that the following described well is not capable of producing unitized substances in paying quantities from the Mesaverde Formation:

The San Juan 29-5 Unit No. 51 Well, located 1090' from the South line and 800' from the West line of Section 14, Township 29 North, Range 5 West, Rio Arriba County, New Mexico, was spudded on March 2, 1961, and completed on May 10, 1961, at a total depth of 6138' and a clean-out depth of 6117'. The Mesaverde Formation in intervals between 5910' - 5916', 5926' - 5932', 5936' - 5942', 5964' - 5970', 5998' - 6002', 6024' - 6028' was treated with a sand-water fracturing process on April 19, 1961. The well was shut-in on May 10, 1961 and after being shut-in for thirty-seven (37) days, the well was tested on June 16, 1961, and following a three (3) hour blow-down period gauged 899 MCFGPD through a 3/4" choke, and 907 MCFGPD by the calculated absolute open-flow method, with an SIPC of 989#.

The determination that the foregoing well is non-commercial was made on June 16, 1961.

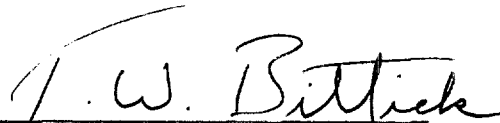
Inasmuch as this determination needs no official approval, no provision is made therefor, and in the absence of disapproval this well will continue to be considered non-commercial.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

A handwritten signature in cursive script that reads "T. W. Bittick". The signature is written in dark ink and is positioned above the printed name and title.

T. W. Bittick  
Assistant Manager  
Land Department

TWB:GA:js

SAN JUAN 29-5 UNIT  
Working Interest Owners

American Petrofina Company of Texas  
P. O. Box 2159  
Dallas 21, Texas

Mr. Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

General American Oil Company of Texas  
Attention: Mr. James W. Goss, Jr.  
Meadows Building  
Dallas 6, Texas

Mr. T. H. McElvain  
220 Shelby Street  
Santa Fe, New Mexico

Pan American Petroleum Corporation  
Attention: Mr. L. O. Speer, Jr.  
P. O. Box 480  
Farmington, New Mexico

Phillips Petroleum Company  
Attention: Division Landman  
Land & Geological Department  
1200 Denver Club Building  
Denver 2, Colorado

Phillips Petroleum Company  
Attention: Mr. R. F. Rood or Mr. R. A. Brown  
508 Bank Building  
Bartlesville, Oklahoma

Rock Island Oil and Refining Company  
321 West Douglas  
Wichita, Kansas

Southern Petroleum Exploration, Inc.  
Attention: Mr. Paul W. Neuenschwander  
P. O. Box 192  
Sistersville, West Virginia

Sunray Mid-Continent Oil Company  
Attention: Mr. A. W. Wadman, Jr.  
101 University Building  
Cherry Creek Center  
Denver 6, Colorado

# El Paso Natural Gas Company

El Paso, Texas

July 21, 1961

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL WELL  
Mesaverde Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 29-5 Unit Agreement, #14-08-001-437 approved November 21, 1952, El Paso Natural Gas Company, as Unit Operator, has determined on the date set out below that the following additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to the unit.


The San Juan 29-5 Unit #23 Well is located 1650' from the North line and 990' from the East line of Section 16, Township 29 North, Range 5 West, Rio Arriba County, New Mexico. This well was spudded on March 27, 1961, and completed on June 10, 1961, at a total depth of 6050' and a clean-out depth of 6038'. The Mesaverde Formation between 5549' - 5559', 5770' - 5778', 5788' - 5798', 5804' - 5810', 5853' - 5861', 5874' - 5882', 5912' - 5918', 5922' - 5928' and 5947' - 5953' was treated with a sand-water fracturing process. After being shut-in for gauge for seven (7) days, the well was tested on June 17, 1961, and following a three (3) hour blow-down period gauged 2120 MCFGPD through a 3/4" choke, and 2207

MCFGPD by the calculated absolute open-flow method, with an SIPC of 1105#. The committed drilling block upon which this well is located is described as the E/2 of Section 16, Township 29 North, Range 5 West, N.M.P.M., and consists of 320.00 acres. The determination that this well is capable of producing unitized substances in paying quantities from the Mesaverde Formation was made on June 17, 1961. This drilling block was included in the San Juan 29-5 Nineteenth Expanded Participating Area for the Mesaverde Formation, effective October 1, 1960, as an intervening drilling block, and therefore, the Participating Area is not enlarged.

A copy of this letter is being sent to each of the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By   
Charles Higgins  
Area Coordinator  
Land Department

CH:GA:cah

SAN JUAN 29-5 UNIT  
Working Interest Owners

American Petrofina Company of Texas  
P.O. Box 2159  
Dallas 21, Texas

Mr. Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

General American Oil Company of Texas  
Attention: Mr. James W. Goss, Jr.  
Meadows Building  
Dallas 6, Texas

Mr. T H. McElvain  
220 Shelby St.  
Santa Fe, New Mexico

Pan American Petroleum Corporation (12)  
Attention: Mr. L. O. Speer, Jr.  
P.O. Box 480  
Farmington, New Mexico

Phillips Petroleum Company  
Attention: Division Landman  
Land & Geological Department  
1200 Denver Club Building  
Denver 2, Colorado

Phillips Petroleum Company  
Attention: Mr. R. F. Rood or Mr. R. A. Brown  
508 Bank Building  
Bartlesville, Oklahoma

Rock Island Oil & Refining Company  
321 West Douglas  
Wichita, Kansas

Southern Petroleum Exploration, Inc.  
Attention: Mr. Paul W. Neuenschwander  
P.O. Box 192  
Sistersville, West Virginia

Sunray Mid-Continent Oil Company  
Attention: Mr. A. W. Wadman, Jr.  
101 University Building  
Cherry Creek Center  
Denver 6, Colorado



# El Paso Natural Gas Company

El Paso, Texas

July 19, 1961

418

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P.O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
San Juan County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL AND TWENTY-FIRST EXPANDED  
PARTICIPATING AREA, Mesaverde Formation  
Effective July 1, 1961

Gentlemen:

On July 10, 1961, we mailed to you a Notice of Completion of Additional Well and Twenty-First Expanded Participating Area for the Mesaverde Formation for the captioned unit and have found that there is a typographical error.

On Page 23 of Schedule XXII, the first line of the description should read as follows:

T-29-N, R-5-W  
Sec. 21: W/2

instead of: T-29-N, R-5-W  
Sec. 31: W/2

Copies of this letter are being sent to the working interest owners of the San Juan 29-5 Unit.

Very truly yours,

*Charles Higgins*  
Charles Higgins  
Area Coordinator  
Land Department

CH:GA:cah

# *El Paso Natural Gas Company*

*El Paso, Texas*

July 10, 1961

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Drawer 1857  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
San Juan County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL AND TWENTY-FIRST EXPANDED  
PARTICIPATING AREA, Mesaverde Formation  
Effective July 1, 1961

Gentlemen:

Pursuant to Section 11(a) of the San Juan 29-5 Unit Agreement, #14-08-001-437, approved November 21, 1952, El Paso Natural Gas Company, as Unit Operator, determined on the test date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit, and this well is as follows:

The San Juan 29-5 Unit #49 Well is located 990' from the South line and 990' from the West line of Section 9, Township 29 North, Range 5 West, Rio Arriba County, New Mexico. This well was spudded on April 15, 1961, and completed on May 5, 1961, at a total depth of 6061' and a clean out depth of 6052'. The Mesaverde Formation in the intervals between 5827' - 5837', 5843' - 5855', 5861' - 5869', 5879' - 5887', and 5894' - 5906' was treated with a sand-water fracturing process on April 29, 1961. The well was shut-in on May 5, 1961, and after being shut-in for gauge for twenty-eight (28) days, the well was tested on June 2, 1961, and following a three (3) hour blow-down period gauged 2716 MCFGPD through a 3/4" choke and 2928 MCFGPD by the calculated absolute open-flow method, with an SIPC of 1062#. The committed drilling block upon which this well is located is described as the W/2 of Section 9, Township 29 North, Range 5 West, N.M.P.M., and consists of 320.00 acres.


The drilling block for the San Juan 29-5 Unit #49 Well was included in the Twentieth Expanded Participating Area of the Mesaverde Formation for the San Juan 29-5 Unit, effective November 1, 1960. One (1) intervening drilling block has been created by the drilling of the above mentioned well, described as the E/2 of Section 8, Township 29 North, Range 5 West, N.M.P.M. Under the terms of the Unit Agreement, this intervening drilling block is admitted to the Mesaverde Participating Area effective July 1, 1961, and a well must be commenced on said intervening drilling block by July 1, 1962.

Attached is Schedule XXII showing the Twenty-First Expanded Participating Area for the Mesaverde Formation for the San Juan 29-5 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twenty-First Expanded Participating Area will become effective as of July 1, 1961.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 

T. W. Bittick  
Assistant Manager  
Land Department

TWB:GA:cah  
Attachments

# El Paso Natural Gas Company

El Paso, Texas

June 7, 1961

Commissioner of Public Lands  
Of the State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: San Juan 29-5 Unit, #14-08-001-437  
Rio Arriba County, New Mexico  
#32-29 Well, NON-COMMERCIAL WELL

Gentlemen:

This letter is to advise you that Mr. John A. Anderson, Regional Oil and Gas Supervisor, United States Department of Interior Geological Survey, informed us by letter of June 5, 1961 that the Geological Survey concurs with our determination that the San Juan 29-5 Unit #32-29 Well, located in the SW/4 of Section 29, Township 29 North, Range 5 West, is incapable of producing unitized substances in paying quantities under existing conditions.

Very truly yours,



Charles Higgins  
Area Coordinator  
Land Department

CH:GA:js

cc: Working Interest Owners  
of San Juan 29-5 Unit

# El Paso Natural Gas Company

El Paso, Texas

May 10, 1961

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Drawer 1857  
Roswell, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF NON-COMMERCIAL  
WELL IN THE DAKOTA FORMATION

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 29-5 Unit Agreement, approved November 21, 1952, El Paso Natural Gas Company, as Successor Unit Operator to Pacific Northwest Pipeline Corporation, has determined that the following described well is not capable of producing unitized substances in paying quantities from the Dakota Formation:

The San Juan 29-5 Unit #32-29 Well is located 990' from the South line and 1500' from the West line of Section 29, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on June 23, 1959, and completed on September 5, 1959 at a total depth of 8032' and a clean-out depth of 7933'. The Dakota formation from 7775' - 7785', 7789' - 7799', 7828' - 7838', 7848' - 7858, 7864' - 7872' was treated with a sand-water fracturing process on August 24, 1959. The well was shut-in as to the Dakota formation on September 5, 1959 and after being shut-in for gauge for nine (9) days, the well was tested as to the Dakota formation on September 14, 1959, and following a three (3) hour blow-down period gauged 3083 MCFGPD through a 3/4" choke and 3185 MCFGPD by the calculated absolute open-flow method with an SIPT of 2560#.

Pursuant to Section 11(a) of the San Juan 29-5 Unit Agreement, the Mesaverde Drilling Block on which the San Juan 29-5 Unit #32-24 (MD) Well was completed was included as an intervening drilling block in the Mesaverde Participating Area effective July 1, 1958, and a Notice of Completion of Additional Well has been submitted.

If this determination 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 Commissioner of Public Lands and the Oil Conservation Commission of the State of New Mexico and the Working Interest Owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By 

Sam Smith, Manager  
Land Department

SS:GA:js

APPROVED: \_\_\_\_\_  
United States Geological Survey

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

SAN JUAN 29-5 UNIT  
Working Interest Owners

American Petrofina Company of Texas  
P. O. Box 2159  
Dallas 21, Texas

Mr. Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

General American Oil Company of Texas  
Attention: Mr. James W. Goss, Jr.  
Meadows Building  
Dallas 6, Texas

Mr. T. H. McElvain  
220 Shelby Street  
Santa Fe, New Mexico

Pan American Petroleum Corporation (12)  
Attention: Mr. L. O. Speer, Jr.  
P. O. Box 480  
Farmington, New Mexico

Phillips Petroleum Company  
Attention: Division Landman  
Land & Geological Department  
1200 Denver Club Building  
Denver 2, Colorado

Phillips Petroleum Company  
Attention: Mr. R. F. Rood or Mr. R. A. Brown  
508 Bank Building  
Bartlesville, Oklahoma

Rock Island Oil and Refining Company  
321 West Douglas  
Wichita, Kansas

Southern Petroleum Exploration, Inc.  
Attention: Mr. Paul W. Neuenschwander  
P. O. Box 192  
Sistersville, West Virginia

Sunray Mid-Continent Oil Company  
Attention: Mr. A. W. Wadman, Jr.  
101 University Building  
Cherry Creek Center  
Denver 6, Colorado

# El Paso Natural Gas Company

El Paso, Texas

November 18, 1960

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: San Juan 29-5 Unit, #14-08-001-437  
San Juan County, New Mexico  
NINETEENTH EXPANDED PARTICIPATING  
AREA, Mesaverde Formation  
Effective October 1, 1960

Gentlemen:

Pursuant to Section 11(a) of the San Juan 29-5 Unit Agreement, #14-08-001-437, approved November 21, 1952, El Paso Natural Gas Company, as Unit Operator, determined on the test date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit, and this well is as follows:

The San Juan 29-5 Unit #48-15 Well is located 1650' from the South line and 990' from the West line of Section 15, Township 29 North, Range 5 West, Rio Arriba County, New Mexico. This well was spudded on June 24, 1960, and completed on August 28, 1960, at a total depth of 6149' and a clean out depth of 6080'. The Mesaverde Formation between 5852' - 5858'; 5910' - 5918'; 5930' - 5938'; 5944' - 5950'; 5970' - 5976'; 5996' - 6006'; 6042' - 6048' was treated with a sand-water fracturing process on August 26, 1960. The well was shut-in on August 28, 1960, and after being shut-in for gauge for nineteen (19) days, the well was tested on September 16, 1960, and following a three (3) hour blow-down period gauged 3307 MCFGPD through a 3/4" choke, and 4612 MCFGPD by the calculated absolute open-flow method with an SIPC of 1139# and an SIPT of 1130#. The committed drilling block upon which this well is located is described as the W/2 of Section 15, Township 29 North, Range 5 West, N.M.P.M., and consists of 320 acres.



The drilling block for the San Juan 29-5 Unit #48-15 Well is included in this the Nineteenth Expanded Participating Area of the Mesaverde Formation for the San Juan 29-5 Unit, effective October 1, 1960. One intervening drilling block has been created by the drilling of the above mentioned well described as the E/2 of Section 16, Township 29 North, Range 5 West, N.M.P.M. Under the terms of the Unit Agreement this intervening drilling block is admitted to the Mesaverde Participating Area effective October 1, 1960, and a well must be commenced on said intervening drilling block by October 1, 1961.

Attached is Schedule XX showing the Nineteenth Expanded Participating Area for the Mesaverde Formation for the San Juan 29-5 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Nineteenth Expanded Participating Area will become effective as of October 1, 1960.

Copies of this letter and Schedule are being sent to the Working Interest Owners as shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By T. W. Bittick  
T. W. Bittick  
Assistant Manager  
Land Department

TWB:GA:js

Attachments

SAN JUAN 29-5 UNIT  
Working Interest Owners

Phillips Petroleum Company  
508 Bank Building  
Bartlesville, Oklahoma  
Attention: Mr. R. F. Rood or  
              Mr. R. A. Brown

Mr. W. A. Wadman, Jr.  
Joint Operations and Gas Coordinator  
Sunray Mid-Continent Oil Company  
P. O. Box 2692  
Denver, Colorado

Southern Petroleum Exploration, Inc.  
Post Office Box 192  
Sistersville, West Virginia  
Attention: Mr. Paul W. Neuenschwander

Pan American Petroleum Corporation  
Post Office Box 480  
Farmington, New Mexico  
Attention: Mr. L. O. Speer, Jr.

Mr. Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

General American Oil Company of Texas  
Meadows Building  
Dallas 6, Texas  
Attention: Mr. William P. Barnes

Mr. T. H. McElvain  
220 Shelby Street  
Santa Fe, New Mexico

Rock Island Oil and Refining Company  
321 West Douglas  
Wichita, Kansas

American Petrofina Company of Texas  
Post Office Box 2159  
Dallas 21, Texas

# El Paso Natural Gas Company

*El Paso, Texas*

December 5, 1960

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: San Juan 29-5 Unit, #14-08-001-437  
San Juan County, New Mexico  
TWENTIETH EXPANDED  
PARTICIPATING AREA  
Mesaverde Formation  
Effective November 1, 1960

Gentlemen:

Pursuant to Section 11(a) of the San Juan 29-5 Unit Agreement, #14-08-001-437, approved November 21, 1952, El Paso Natural Gas Company, as Unit Operator, determined on the test date set out below that one (1) additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit, and this well is as follows:

The San Juan 29-5 Unit #47-4 Well is located 1735' from the South line and 950' from the West line of Section 4, Township 29 North, Range 5 West, Rio Arriba County, New Mexico. This well was spudded on July 18, 1960, and completed on August 23, 1960, at a total depth of 5768' and a clean out depth of 5718'. The Mesaverde Formation between 5300' - 5306', 5312' - 5320', 5326' - 5330', 5532' - 5548', 5622' - 5628', 5646' - 5654', 5666' - 5676', 5682' - 5688'

was treated with a sand-water fracturing process on August 17, 1960. The well was shut-in on August 24, 1960, and after being shut-in for gauge for forty-seven (47) days, the well was tested on October 10, 1960, and following a three (3) hour blow-down period gauged 1857 MCFGPD through a 3/4" choke, and 1908 MCFGPD by the calculated absolute open-flow method, with an SIPC of 1128#. The committed drilling block upon which this well is located is described as the W/2 of Section 4, Township 29 North, Range 5 West, N.M.P.M., and consists of 321.60 acres.

The drilling block for the San Juan 29-5 Unit #47-4 Well is included in this the Twentieth Expanded Participating Area of the Mesaverde Formation for the San Juan 29-5 Unit, effective November 1, 1960. Two (2) intervening drilling blocks have been created by the drilling of the above mentioned well, described as the E/2 of Section 5 and the W/2 of Section 9, Township 29 North, Range 5 West, N.M.P.M. Under the terms of the Unit Agreement, these intervening drilling blocks are admitted to the Mesaverde Participating Area effective November 1, 1960, and a well must be commenced on each said intervening drilling block by November 1, 1961.

Attached is Schedule XXI showing the Twentieth Expanded Participating Area for the Mesaverde Formation for the San Juan 29-5 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract. Inasmuch as this needs no official approval, no provision is made therefor, and in the absence of disapproval, this Twentieth Expanded Participating Area will become effective as of November 1, 1960.

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

Very truly yours,

EL PASO NATURAL GAS COMPANY

By T. W. Bittick  
T. W. Bittick  
Assistant Manager  
Land Department

TWB:GA:cah  
Attachments

**SAN JUAN 29-5 UNIT**  
**Working Interest Owners**

Phillips Petroleum Company  
508 Bank Building  
Bartlesville, Oklahoma  
Attention: Mr. R. F. Rood or R. A. Brown

Sunray Mid-Continent Oil Company  
530 First Security Building  
Salt Lake City 11, Utah

Southern Petroleum Exploration, Inc.  
Post Office Box 192  
Sistersville, West Virginia  
Attention: Mr. Paul W. Neuenschwander

Pan American Petroleum Corporation (12)  
Post Office Box 480  
Farmington, New Mexico  
Attention: Mr. L. O. Speer, Jr.

Mr. Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

General American Oil Company of Texas  
Meadows Building  
Dallas 6, Texas  
Attention: Mr. William P. Barnes

Mr. T. H. McElvain  
220 Shelby Street  
Santa Fe, New Mexico

Rock Island Oil and Refining Company  
321 West Douglas  
Wichita, Kansas

American Petrofina Company of Texas  
Post Office Box 2159  
Dallas 21, Texas

# El Paso Natural Gas Company

El Paso, Texas

April 27, 1960

*Cur #418*

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL WELL  
Mesaverde Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 29-5 Unit Agreement, #14-08-001-437, approved November 21, 1952, El Paso Natural Gas Company, as Successor Unit Operator to Pacific Northwest Pipeline Corporation, has determined on the date set out below that the following additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this Unit:

The San Juan 29-5 Unit #13-30 Well is located 1650' from the North line and 800' from the East line of Section 30, Township 29 North, Range 5 West, Rio Arriba County, New Mexico. This well was spudded on October 16, 1959, and dually completed on December 1, 1959, at a total depth of 8214' in the Mesaverde and Dakota Formations. The Mesaverde Formation between 5526' - 5538' - 5546' - 5568', 5640' - 5644', 5808' - 5818', 5852' - 5860', 5874' - 5896', 5902' - 5908', 5914' - 5924', 5936' - 5954', 5960' - 5964' and 5970' - 5984' was treated with a sand-water fracturing process. After being shut-in for gauge for nineteen (19) days, the well was tested on March 14, 1960, and following a three (3) hour blow-down period gauged 4931 MCFGPD through a 3/4" choke, and 10,150 MCFGPD by the calculated absolute open-flow method, with an SIPC of 1087# and an SIPT of 1087#. The committed drilling block upon this well is located as described as the E/2 of Section 30, Township 29 North, Range 5 West, N.M.P.M., and consists of 320.00 acres. The determination

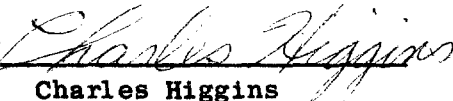
that this well is capable of producing unitized substances in paying quantities from the Mesaverde Formation was made on March 14, 1960. This drilling block was included in the San Juan 29-5 Sixteenth Expanded Participating Area for the Mesaverde Formation, effective July 1, 1958, as an intervening drilling block, and therefore, the Participating Area is not enlarged.

A copy of this letter is being sent to each of the working interest owners shown on the attached sheet, and a Notice of Completion of Non-Commercial Well in the Dakota Formation will be sent by separate letter.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

  
Charles Higgins  
Area Landman  
Land Department

CH:GA:cah

SAN JUAN 29-5 UNIT  
WORKING INTEREST OWNERS

Phillips Petroleum Company  
508 Bank Building  
Bartlesville, Oklahoma  
Attention: Mr. R.F. Rood or Mr. R.A. Brown

Mr. Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

General American Oil Company of Texas  
Meadows Building  
Dallas 6, Texas  
Attention: Mr. W. P. Barnes

Sunray Mid-Continent Oil Company  
P.O. Box 2039  
Tulsa, Oklahoma

Southern Petroleum Exploration, Inc.  
P.O. Box 192  
Sistersville, West Virginia  
Attention: Mr. Paul W. Neuenschwander

Mr. T. H. McElvain  
220 Shelby St.  
Santa Fe, New Mexico

Rock Island Oil & Refining Co.  
321 West Douglas  
Wichita, Kansas

Pan American Petroleum Corporation (12)  
P.O. Box 487  
Farmington, New Mexico  
Attention: Mr. L.O. Speer, Jr.

American Petrofina Company of Texas  
P.O. Box 2159  
Dallas 21, Texas



# El Paso Natural Gas Company

El Paso, Texas

April 27, 1960

Mr. John A. Anderson  
Regional Oil and Gas Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Oil Conservation Commission  
Of the State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF NON-  
COMMERCIAL WELL IN THE DAKOTA  
FORMATION

Gentlemen:

Pursuant to the provisions of Section 11(b) of the San Juan 29-5 Unit Agreement, approved November 21, 1952, El Paso Natural Gas Company, as Successor Unit Operator to Pacific Northwest Pipeline Corporation, has determined that the following described well is not capable of producing unitized substances in paying quantities from the Dakota Formation:

The San Juan 29-5 Unit #13-30 Well, located 1650' from the North line and 800' from the East line of Section 30, Township 29 North, Range 5 West, Rio Arriba County, New Mexico, was spudded on October 16, 1959, and dually completed on December 1, 1959, at a total depth of 8214' in the Mesaverde and Dakota Formations. The Dakota Formation in intervals between 7980' - 7990', 7996' - 8004' 8032' - 8038', 8046' - 8054', 8060' - 8074' and 8088' - 8096' was treated with a sand-water fracturing process on November 21, 1959. After being shut-in for seven (7) days, the Dakota Formation was tested on January 12, 1960, and following a three (3) hour blow-down period gauged 905 MCFGPD through a 3/4" choke, and 908 MCFGPD by the calculated absolute open-flow method, with an SIPT of 2368#.

Pursuant to Section 11(a) of the San Juan 29-5 Unit Agreement, the Mesaverde Drilling Block on which the San Juan 29-5 Unit #13-30 Well was also completed was included as an intervening drilling block in the Mesaverde Participating Area effective July 1, 1958. A Notice of Completion of Additional Well will be sent by separate letter.

If this determination 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 Commissioner of Public Lands of the State of New Mexico and the working interest owners shown on the attached sheet.

Very truly yours,

EL PASO NATURAL GAS COMPANY

By

A handwritten signature in cursive script, appearing to read "Sam Smith", written over a horizontal line.

Sam Smith, Manager  
Land Department

SS:GA:cah

APPROVED: \_\_\_\_\_  
United States Geological Survey

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

APPROVED: \_\_\_\_\_  
Oil Conservation Commission of the State of  
New Mexico

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

SAN JUAN 29-5 UNIT  
WORKING INTEREST OWNERS

Phillips Petroleum Company  
508 Bank Building  
Bartlesville, Oklahoma  
Attention: Mr. R.F. Rood or Mr. R.A. Brown

Mr. Tom Bolack  
1010 North Dustin  
Farmington, New Mexico

General American Oil Company of Texas  
Meadows Building  
Dallas 6, Texas  
Attention: Mr. W. P. Barnes

Sunray Mid-Continent Oil Company  
P.O. Box 2039  
Tulsa, Oklahoma

Southern Petroleum Exploration, Inc.  
P.O. Box 192  
Sistersville, West Virginia  
Attention: Mr. Paul W. Neuenschwander

Mr. T. H. McElvain  
220 Shelby St.  
Santa Fe, New Mexico

Rock Island Oil & Refining Co.  
321 West Douglas  
Wichita, Kansas

Pan American Petroleum Corporation (12)  
P.O. Box 487  
Farmington, New Mexico  
Attention: Mr. L.O. Speer, Jr.

American Petrofina Company of Texas  
P.O. Box 2159  
Dallas 21, Texas

# El Paso Natural Gas Company

El Paso, Texas

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

January 14, 1960

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 29-5 Unit, #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELLS, for the Mesaverde Formation

Pursuant to Section 11 (a) of San Juan 29-5 Unit Agreement, El Paso Natural Gas Company, as Unit Operator, has determined that three additional wells capable of producing unitized substances in paying quantities in the Mesaverde formation have been completed on acreage committed to this unit.

The well data is as follows:

1. The San Juan 29-5 Unit Well #13-30 located 1650' from the North line and 800' from the East line of Section 30, Township 29 North, Range 5 West, Rio Arriba County, New Mexico was spudded on October 13, 1959 and completed on December 21, 1959 in the Mesaverde and Dakota formations at a total depth of 8130'. The Mesaverde formation between 5640' and 5818' was perforated and sand-water fraced. After being shut-in, the well was tested on December 21, 1959, and following a three hour blow-down period gauged 10,673 MCFGPD by the calculated absolute open flow method with SIPT 1041#. The committed drilling block upon which this well is located is described as the E/2 of Section 30, Township 29 North, Range 5 West, N.M.P.M. containing 320 acres. This drilling block was included in the Mesaverde Participating Area on a previous expansion effective July 1, 1958; therefore, the Participating Area is not further enlarged with this completion. This well was also drilled to and completed in the Dakota formation and will be reported on by separate letter.

2. The San Juan 29-5 Unit Well #22-8 located 1790' from the South line and 890' from the West line of Section 8, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico, was spudded on October 23, 1959 and completed December 1, 1959, in the Mesaverde and Dakota formations at a total depth of 7567'. The Mesaverde formation was perforated and sand-water fraced at intervals between 5360' and 5782'. After being shut-in the Mesaverde formation was tested on December 8, 1959 and following a three hour blow-down period gauged 6193 MCF/D through 3/4" choke and 7604 MCF/D by the calculated absolute open flow method with SITP of 1067#. The committed drilling block upon which this well is located is described as the W/2 of Section 8, Township 29 North, Range 5 West, containing 320 acres. This drilling block was included in the San Juan 29-5 Mesaverde Participating Area on a previous expansion effective October 1, 1958; therefore, the Participating Area is not further enlarged with this completion.

This well was drilled to the Dakota formation and was to have been completed as a dual Mesaverde-Dakota well; however the Dakota formation was found to be non-commercial and this portion of the well was cemented off and is now considered plugged and abandoned.

3. The San Juan 29-5 Unit Well #45-22 located 1090' from the North line and 990' from the East line of Section 22, Township 29 North, Range 5 West, Rio Arriba County, New Mexico was spudded October 8, 1959, and completed on December 3, 1959, in the Mesaverde and Dakota formations at a total depth of 8276'. The Mesaverde formation was perforated and sand-water fraced at intervals between 5612' and 6050'. After being shut-in, the Mesaverde formation was tested on December 14, 1959, and following a three hour blow-down period the well gauged 2516 MCF/D through 3/4" choke and 2781 MCF/D by the calculated absolute open flow method with SITP 1044#. The committed drilling block on which this well is located is the E/2 of Section 22, Township 29 North, Range 5 West, containing 320 acres. This drilling block was included in the San Juan 29-5 Mesaverde Participating Area on a previous expansion effective August 1, 1958; therefore, the Participating Area is not further enlarged with this completion.

Well #45-22 as previously mentioned, was drilled to the Dakota formation, however, it was found to be non-commercial. This portion of the well was cemented off and is now considered plugged and abandoned.

Copies of this letter are being sent to all working interest owners in the 29-5 Unit.

Very truly yours,

EL PASO NATURAL GAS COMPANY

*Claude Van Dyke*

Claude Van Dyke  
Land Department  
Rocky Mountain Region

**PACIFIC NORTHWEST PIPELINE CORPORATION**

**SALT LAKE CITY, UTAH**

December 14, 1959

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL for the Mesaverde formation

Pursuant to Section 11 (a) of San Juan 29-5 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that one additional well capable of producing unitized substances in paying quantities in the Mesaverde formation has been completed on acreage committed to this unit.

The well data is as follows:

The San Juan 29-5 Unit Well #31-29 located 1500' from the North line and 1090' from the East line of Section 29, Township 29 North, Range 5 West, Rio Arriba County, New Mexico, was spudded on October 8, 1959, and completed on November 8, 1959 in the Mesaverde formation at a total depth of 6052'. The Mesaverde formation between 5496' and 6026' was perforated and treated with a sand-water fracturing process. After being shut-in for approximately 9 days, the Mesaverde formation was tested on November 17, 1959, and following a three hour blow-down period gauged 1969' MCF/D through 3/4" choke, and 5825 MCF/D by the calculated absolute open flow method, with SICP 1085# and SITP 1087#. The committed drilling block upon which this well is located is described as the E/2 of Section 29, Township 29 North, Range 5 West and contains 320 acres.

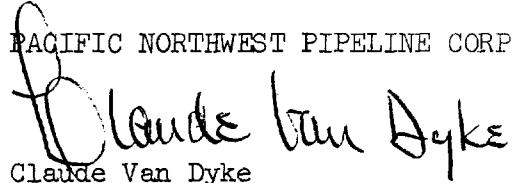
This drilling block was admitted to the Mesaverde Participating Area as an intervening drilling block effective August 1, 1958; therefore, the Mesaverde Participating Area is not enlarged with this completion.

Notice of Completion of Additional Well  
December 14, 1959  
Page 2

Copies of this letter are being sent to all working interest owners within the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

A handwritten signature in dark ink, reading "Claude Van Dyke". The signature is written in a cursive style with a large, stylized initial "C".

Claude Van Dyke  
District Manager, Land Department

CVD:kfb



**PACIFIC NORTHWEST PIPELINE CORPORATION**

**SALT LAKE CITY, UTAH**

October 13, 1959

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 29-5 Unit #14-08-001-437  
San Juan and Rio Arriba Counties  
New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL

Pursuant to Section 11 (a) of the San Juan 29-5 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that an additional well capable of producing unitized substances in paying quantities from the Mesaverde formation has been completed upon acreage committed to this unit.

The well information is as follows:

San Juan 29-5 Unit, Well #32-29 is located 990' from the South line and 1500' from the West line of Section 29, Township 29 North, Range 5 West, Rio Arriba County, New Mexico. This well was spudded June 23, 1959, and completed on September 5, 1959, in the Mesaverde and Dakota formations at a total depth of 8030'. The Mesaverde formation between 5290' and 5724' was perforated and treated with a sand-water fracturing process. After being shut-in for approximately 15 days the Mesaverde formation was tested on September 21, 1959, and following a three hour blow down period, gauged 5038 MCF/D through 3/4" choke and 5678 MCF/D by the calculated absolute open flow method, with a SICP of 1045# and a SIPT of 1039#. The committed drilling block upon which this well is located is described as the W/2 of Section 29, Township 29 North, Range 5 West, containing 320.00 acres, and

San Juan 29-5 Unit  
Well Completion  
October 13, 1959

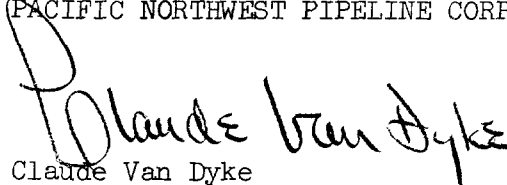
was admitted to the Mesaverde Participating Area as an Intervening Drilling Block effective July 1, 1958. Therefore the Mesaverde Participating Area is not enlarged with this completion.

Well #32-29 was also completed in the Dakota formation, and in conformance with Section 11 (b) of San Juan 29-5 Unit Agreement, a report on the completion in this formation will be submitted by separate letter.

Copies of this letter and Schedule are being sent to all the working interest owners within the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

A handwritten signature in dark ink, reading "Claude Van Dyke". The signature is written in a cursive style with a large, stylized initial "C" that loops around the first part of the name.

Claude Van Dyke  
District Manager, Land Department

CVD:jc

**PACIFIC NORTHWEST PIPELINE CORPORATION**

**SALT LAKE CITY, UTAH**

October 10, 1958

MAIN OFFICE 372  
DEC 10 1958  
REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY, 10, UTAH

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
EIGHTEENTH EXPANSION MESAVERDE  
PARTICIPATING AREA and NOTICE  
OF COMPLETION OF ADDITIONAL WELL  
Effective: October 1, 1958

Pursuant to Section 11 (a) of San Juan 29-5 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit, and also that a well has been completed upon an intervening drilling block within the unit.

The well data is as follows:

SAN JUAN 29-5 MESAVERDE WELL #40-28

LOCATION:	1650' from North line and 1650' from East line of Section 28, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6635' (grd)
SPUD DATE:	August 3, 1958
CASING:	10 3/4" cemented at 192' with 200 sx 7 5/8" cemented at 3815' with 150 sx 5 1/2" cemented at 6008' with 200 sx
TOTAL DEPTH:	6008', PBTD 5994'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

Eighteenth Expansion and Well Completion  
San Juan 29-5 Unit  
Page 2  
October 10, 1958

COMPLETION METHODS: Perforated 5 1/2" casing and water fraced  
Cliff House, Menefee and Point Lookout  
formations at intervals between 5396' and  
5966'

TUBING: 1 1/4" hung at 5952'

COMPLETION TEST DATA

DATE: September 5, 1958

SHUT-IN-PERIOD: 15 days

FINAL SHUT-IN-PRESSURES: Tubing 957#  
Casing 1105#

RATE THROUGH 3/4" CHOKE  
AND CASING AFTER 3 HOUR  
BLOW DOWN: 5015 MCF/D; CAOF 5785 MCF/D

San Juan 29-5 Mesaverde Well #40-28 is located upon the drilling block described  
as the E/2 of Section 28, Township 29 North, Range 5 West. This drilling block  
was included as an intervening drilling block in the Mesaverde Participating  
Area effective August 1, 1957.

SAN JUAN 29-5 MESAVERDE WELL #18-5

LOCATION: 1630' from South line and 1650' from West  
line of Section 5, T 29 N, R 5 W, N.M.P.M.

ELEVATION: 6643' (grd)

SPUD DATE: August 25, 1958

CASING: 10 3/4" cemented at 193' with 200 sx  
7 5/8" cemented at 3829' with 200 sx  
5 1/2" cemented at 5985' with 200 sx

TOTAL DEPTH: 5990'

DRILLING METHODS: Drilled with mud to 7 5/8" casing point;  
drilled with gas from 7 5/8" casing point  
to total depth.

COMPLETION METHODS: Perforated 5 1/2" casing and water fraced  
Cliff House, Menefee and Point Lookout  
formations at intervals between 5472' and  
5942'

Eighteenth Expansion and Well Completion  
San Juan 29-5 Unit  
Page 3  
October 10, 1958

TUBING:  $1\frac{1}{4}$ " hung at 5919'

COMPLETION TEST DATA

DATE: September 19, 1958

SHUT-IN-PERIOD: 9 days

FINAL SHUT-IN-PRESSURES: Tubing 1031#  
Casing 1103#

RATE THROUGH  $3/4$ " CHOKE  
AFTER 3 HOUR BLOW DOWN: 5211 MCF/D; CAOF 6011 MCF/D

San Juan 29-5 Mesaverde Well #18-5 is located upon the drilling block described as the W/2 of Section 5, Township 29 North, Range 5 West. This drilling block containing 321 acres is herewith admitted to the Mesaverde Participating Area. With this completion there is created an intervening drilling block described as the W/2 of Section 8, Township 29 North, Range 5 West. This drilling block containing 320 acres is hereby admitted to the Mesaverde Participating Area.

Attached is Schedule XIX, showing the Eighteenth Expanded Participating Area for the Mesaverde Formation. This describes the participating area and gives the percentage of unitized substances allocated to each unitized tract.

Attached as Exhibit "A" is a plat of San Juan 29-5 Unit Mesaverde Participating Area.

Copies of this letter and Schedule are being sent to all Working Interest Owners within the subject unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

*Claude Van Dyke*

Claude Van Dyke  
District Manager, Land Department

CVD:jc

Enc.

**PACIFIC NORTHWEST PIPELINE CORPORATION**

**SALT LAKE CITY, UTAH**

August 21, 1958

MAIN OFFICE 000  
12 SEP 8 11 45  
REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
of the State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
of the State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
SEVENTEENTH EXPANSION MESAVERDE  
PARTICIPATING AREA (Revised) and  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL  
Effective: August 1, 1958

Pursuant to Section 11 (a) of San Juan 29-5 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit.

The well data is as follows:

SAN JUAN 29-5 MESAVERDE WELL #42-32

LOCATION:	1650' from North line and 890' from East line of Section 32, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6518' (grd)
SPUD DATE:	May 28, 1958
CASING:	10 3/4" cemented at 192' with 200 sx 7 5/8" cemented at 3675' with 200 sx 5 1/2" cemented at 5834' with 200 sx
TOTAL DEPTH:	5834'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

File  
418

Seventeenth Expansion and Well Completion (Revised)  
San Juan 29-5 Unit  
Page 2  
August 21, 1958

COMPLETION METHODS: Perforated 5 1/2" casing and water fraced  
Cliff House intervals from 5252' to 5322'  
and Menefee intervals from 5440' to 5462'  
and Point Lookout intervals from 5636' to  
5774'

TUBING: 1 1/4" hung at 5758'

COMPLETION TEST DATA

DATE: July 29, 1958

SHUT-IN-PERIOD: 33 days

FINAL SHUT-IN-PRESSURES: Tubing 1020#  
Casing 1084#

RATE BY PITOT TUBE  
AFTER 3 HOUR BLOW  
DOWN:

2809 MCF/D; CAOF 2976 MCF/D

San Juan 29-5 Mesaverde Well #42-32 is located upon the drilling block described as the E/2 of Section 32, Township 29 North, Range 5 West. This drilling block was included as an intervening drilling block in the Mesaverde Participating Area effective December 1, 1957. With this completion there is created an intervening drilling block described as the E/2 of Section 29. This drilling block contains 320 acres and is hereby admitted to the Mesaverde Participating Area.

SAN JUAN 29-5 MESAVERDE WELL #39-23

LOCATION: 990' from South line and 700' from West  
line of Section 23, T 29 N, R 5 W, N.M.P.M.

ELEVATION: 6909' (df)

SPUD DATE: May 17, 1958

CASING: 10 3/4" cemented at 172' with 400 sx  
7 5/8" cemented at 4007' with 200 sx  
5 1/2" cemented at 6197' with 300 sx

TOTAL DEPTH: 6200'

DRILLING METHODS: Drilled with mud to 7 5/8" casing point;  
drilled with gas from 7 5/8" casing point  
to total depth.

COMPLETION METHODS: Perforated 5 1/2" casing and water fraced  
Cliff House, Menefee and Point Lookout  
formations at intervals between 5713' and  
6121'

Seventeenth Expansion and Well Completion (Revised)  
San Juan 29-5 Unit  
Page 3  
August 21, 1958

TUBING: 2" hung at 6115'

COMPLETION TEST DATA

DATE: July 2, 1958  
SHUT-IN-PERIOD: 18 days (approximately)  
FINAL SHUT-IN-PRESSURES: Tubing 1133#  
Casing 1133#  
RATE THROUGH 3/4" CHOKE  
AFTER 3 HOUR BLOW  
DOWN: 1670 MCF/D; CAOF 1896 MCF/D

San Juan 29-5 Mesaverde Well #39-23 is located upon the drilling block described as the W/2 of Section 23, Township 29 North, Range 5 West. This drilling block containing 320 acres is herewith admitted to the Mesaverde Participating Area. With this completion there is created an intervening drilling block described as the E/2 of Section 22, Township 29 North, Range 5 West. This drilling block containing 320 acres is hereby admitted to the Mesaverde Participating Area.

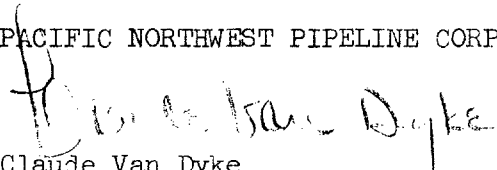
Attached is Schedule XVIII (Revised), showing the Seventeenth Expanded Participating Area for the Mesaverde Formation. This describes the participating area and gives the percentage of unitized substances allocated to each unitized tract.

Attached as Exhibit "A" is a plat of San Juan 29-5 Unit Mesaverde Participating Area.

Copies of this letter and Schedule are being sent to all Working Interest Owners within the subject unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

  
Claude Van Dyke  
District Manager, Land Department

CVD:jc

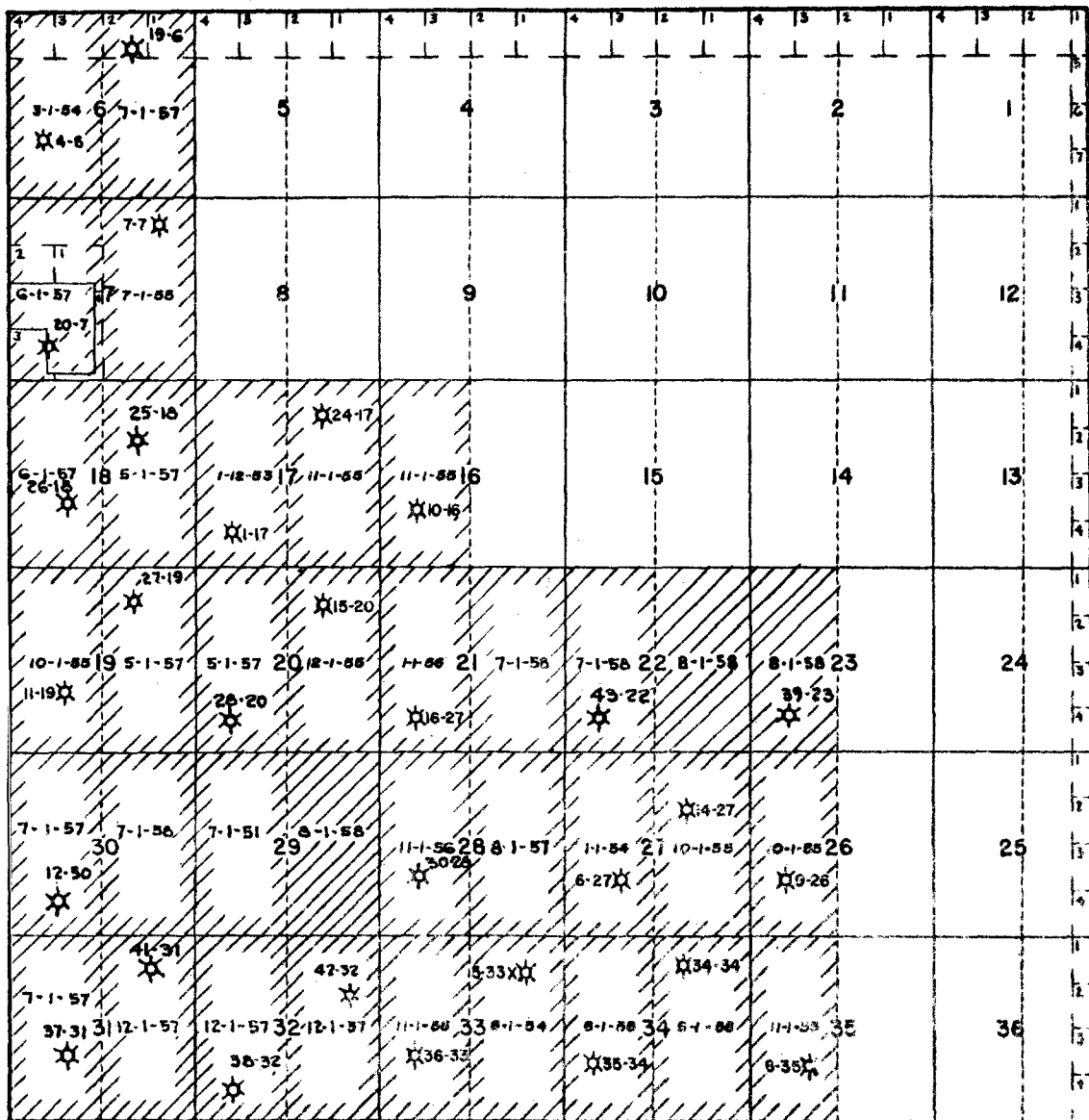
Enc.



# EXHIBIT "A"

R. 5 W.

T.  
29  
N.



## SAN JUAN 29-5 UNIT

RIO ARRIBA COUNTY, NEW MEXICO

Mesaverde Participating Area

SEVENTEENTH REVISION EFFECTIVE AUGUST 1, 1958 (REVISED)

SCALE 1 inch = 1 mile



Participating area.



Drilling blocks added to participating area by this revision.

NOTE: Effective date of inclusion is shown on each drilling block.

# PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

August 21, 1958

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
of the State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
of the State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL and  
SEVENTEENTH EXPANSION MESAVERDE  
PARTICIPATING AREA  
Effective: August 1, 1958

Pursuant to Section 11 (a) of San Juan 29-5 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit.

The well data is as follows:

## SAN JUAN 29-5 MESAVERDE WELL #42-32

LOCATION:	1650' from North line and 890' from East line of Section 32, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6518' (grd)
SPUD DATE:	May 28, 1958
CASING:	10 3/4" cemented at 192' with 200 sx 7 5/8" cemented at 3675' with 200 sx 5 1/2" cemented at 5834' with 200 sx
TOTAL DEPTH:	5834'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

Well Completion and Seventeenth Expansion  
San Juan 29-5 Unit  
Page 2  
August 21, 1958

COMPLETION METHODS: Perforated 5 1/2" casing and water fraced  
Cliff House intervals from 5252' to 5322'  
and Menefee intervals from 5440' to 5462'  
and Point Lookout intervals from 5636' to  
5774'

TUBING: 1 1/4" hung at 5758'

COMPLETION TEST DATA

DATE: July 29, 1958

SHUT-IN-PERIOD: 33 days

FINAL SHUT-IN-PRESSURES: Tubing 1020#  
Casing 1084#

RATE BY PITOT TUBE  
AFTER 3 HOUR BLOW

DOWN: 2809 MCF/D; CAOF 2976 MCF/D

San Juan 29-5 Mesaverde Well #42-32 is located upon the drilling block described as the E/2 of Section 32, Township 29 North, Range 5 West. This drilling block was included as an intervening drilling block in the Mesaverde Participating Area effective December 1, 1957. With this completion there is created an intervening drilling block described as the E/2 of Section 29. This drilling block contains 320 acres and is hereby admitted to the Mesaverde Participating Area.

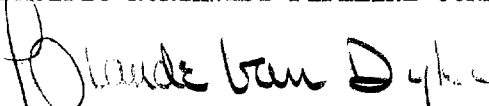
Attached is Schedule XVIII, showing the Seventeenth Expanded Participating Area for the Mesaverde Formation. This describes the participating area and gives the percentage of unitized substances allocated to each unitized tract.

Attached as Exhibit "A" is a plat of San Juan 29-5 Unit Mesaverde Participating Area.

Copies of this letter and Schedule are being sent to all Working Interest Owners within the subject unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

  
Claude Van Dyke  
District Manager, Land Department

CVD:jc

Enc.

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

August 1, 1958

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

MAIN OFFICE CCC  
1958 AUG 3 AM 8:35

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

415

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan Unit 29-5  
Revision to Exhibit "B"  
Revised to August 1, 1958

We enclose for your files multiple copies of Exhibit "B" to San Juan 29-5 Unit Agreement, revised as of August 1, 1958.

Please check your interests appearing on this Exhibit against your records and if you find any discrepancies, advise us in order that the necessary correction may be made.

If you should need extra copies of this Exhibit they will be available upon request.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

*Claude Van Dyke*

Claude Van Dyke  
District Manager, Land Department

CVD:je

Enc.

MAIN OFFICE OCC

1953 AUG 1 AM 8:16

In reply refer to:  
Unit Division

July 30, 1958

*File core*  
*418*

C  
O  
P  
Y

Pacific Northwest Pipeline Corporation  
P. O. Box 1526  
Salt Lake City 10, Utah

Re: E/2 Section 28, Township 29-N,  
Range 5-West- San Juan Unit 29-5  
Rio Arriba County, New Mexico

Attention: Mr. Claude VanDyke

Gentlemen:

We are enclosing one copy of a communitization agreement covering the above described Fee land within the boundaries of the San Juan 29-5 Unit Area.

We are filing one copy of this agreement and handing one copy to the Oil Conservation Commission under copy of this letter.

The Commissioner of Public Lands, recognizes the necessity for this communitization and approves the forming of this drilling block within the San Juan Unit 29-5 by Communitization.

Very truly yours,

MURRAY E. MORGAN  
Commissioner of Public Lands

BY:  
Ted Bilberry, Supervisor  
Oil and Gas Division

MEM/MMR/s

cc: OCC-Santa Fe, New Mexico

COMMUNITIZATION AGREEMENT

1958 JUL 18 AM 10:27

Contract No. \_\_\_\_\_

THIS AGREEMENT entered into as of the 26th day of June, 1958, 1957, by and between the parties subscribing, ratifying or consenting hereto, such parties being hereinafter referred to as "parties hereto,"

W I T N E S S E T H:

WHEREAS, the parties hereto own working, royalty or other leasehold interests, or operating rights under the oil and gas leases and lands subject to this agreement which cannot be independently developed and operated in conformity with the well-spacing program established for the field or area in which said lands are located; and

WHEREAS, the parties hereto desire to communitize and pool their respective mineral interests in lands subject to this agreement for the purpose of developing and producing dry gas and associated liquid hydrocarbons in accordance with the terms and conditions of this agreement:

NOW THEREFORE, in consideration of the premises and the mutual advantages to the parties hereto, it is mutually covenanted and agreed by and between the parties hereto as follows:

1. The lands covered by this agreement (hereinafter referred to as "communitized area") are described as follows:

Township 29 North, Range 5 West, N.M.P.M.  
Section 28: E/2

**Rio Arriba**

**San Juan** County, New Mexico, containing 320 acres, more or less,

and this agreement shall extend to and include only the Mesaverde formation underlying said lands and the dry gas and associated liquid hydrocarbons (hereinafter referred to as "communitized substances") producible from such formation.

2. Attached hereto, and made a part of this agreement for all purposes, is Exhibit "A" designating the operator of the communitized area and showing the acreage and ownership of oil and gas interests in all lands within the communitized area, and the authorization, if any, for communitizing or pooling any patented or fee lands within the communitized area.

3. All matters of operation shall be governed by the Operator under and pursuant to the terms and provisions of this agreement. A successor operator may be designated by the owners of the working interest in the communitized area and four (4) executed copies of a designation of successor operator shall be filed with the Oil and Gas Supervisor.

4. Operator shall furnish the Secretary of the Interior, or his authorized representatives, with a log and history of any well drilled on the communitized area, monthly reports of operations, statements of gas runs and royalties and such other reports as are deemed necessary to compute monthly the royalty due the lessors, as specified in the applicable oil and gas leases or operating regulations. In connection with the performance of work under this agreement, the Operator agrees not to discriminate against any employee or applicant for employment because of race, religion, color, or national origin. The aforesaid provision shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The operator agrees to post hereafter in conspicuous places, available for employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of the nondiscrimination clause. The Operator agrees to insert the foregoing provision in all subcontracts hereunder, except subcontracts for standard commercial supplies or raw materials.

5. The communitized area shall be developed and operated as an entirety with the understanding and agreement between the parties hereto that all communitized substances produced therefrom shall be allocated among the leaseholds comprising said area in the proportion that the acreage interest of each leasehold bears to the entire acreage interest committed to this agreement.

6. The royalties payable on communitized substances allocated to the individual leases comprising the communitized area and the rentals provided for in said leases shall be determined and paid on the basis prescribed in each of the individual leases. Payment of rentals under the terms of leases subject to this agreement shall not be affected by this agreement except as provided for under the terms and provisions of said leases or as may herein be otherwise provided. Except as herein modified and changed, the oil and gas leases subject to this agreement shall remain in full force and effect as originally made and issued.

7. There shall be no obligation on the lessees to offset any gas well or wells completed in the same formation as covered by this agreement on separate component tracts into which the communitized area is now or may hereafter be divided, nor shall any lessee be required to measure separately communitized substances by reason of the diverse ownership thereof, but the lessee hereto shall not be released from their obligation to protect said communitized area from drainage of communitized substances by a well or wells which may be drilled offsetting said area.

8. The commencement, completion, continued operation or production of a well or wells for communitized substances on the communitized area shall be construed and considered as the commencement, completion, continued operation or production on each and all of the lands within and comprising said communitized area, and operations or production pursuant to this agreement shall be deemed to be operations or production as to each lease committed hereto.

9. Production of communitized substances and disposal thereof shall be in conformity with allocation, allotments and quotas made or fixed by a duly authorized person or regulatory body under applicable State or Federal statutes. This agreement shall be subject to all applicable State and Federal laws or executive orders, rules and regulations, and no party hereto shall suffer any forfeiture or be liable in damages for failure to comply with any of the provisions of this agreement if such compliance is prevented by, or if such failure results from, compliance with any such laws, orders, rules or regulations.

10. This agreement shall be effective as of the date hereof upon execution by the necessary parties, notwithstanding the date of execution, and upon approval by the Secretary of the Interior, or his duly authorized representative, and shall remain in force and effect for a period of two years and so long thereafter as communitized substances are produced from the communitized area in paying quantities; provided, that no cessation of such production shall suspend or terminate this agreement so long as diligent drilling or reworking, operations shall be resumed and conducted and shall be followed in due course by resumption of production upon the communitized area hereunder pursuant to the terms of the leases subject hereto and to all applicable laws, rules and regulations affecting said leases and this communitization; and further provided that prior to production in paying quantities from the communitized area and upon fulfillment of all requirements of the Secretary of the Interior, or his duly authorized representative, with respect to any dry hole or abandoned well, this agreement may be terminated at any time by mutual agreement of the parties hereto.

11. It is agreed between the parties hereto that the Secretary of the Interior, or his duly authorized representative, shall have the right of supervision over all operations within the communitized area to the same extent and degree as provided in the oil and gas leases under which the United States of America is lessor and in the applicable oil and gas regulations of the Department of the Interior.

12. The covenants herein shall be construed to be covenants running with the land with respect to the communitized interests of the parties hereto and their successors in interest until this agreement terminates, and any grant, transfer or conveyance of any such land or interest subject hereto, whether voluntary or not, shall be and hereby is conditioned upon the assumption of all obligations hereunder by the grantee, transferee or other successor in interest, and as to Federal land shall be subject to approval by the Secretary of the Interior.

13. This agreement shall be binding upon the parties hereto and shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.

14. This agreement may be executed in any number of counterparts, no one of which needs to be executed by all parties, or may be ratified or consented to by separate instrument, in writing, specifically referring hereto and shall be binding upon all parties who have executed such a counterpart, ratification or consent hereto with the same force and effect as if all parties had signed the same document.

IN WITNESS WHEREOF, the parties hereto have executed this agreement as of the day and year first above written and have set opposite their respective names the date of execution.

ATTEST:

PACIFIC NORTHWEST PIPELINE CORPORATION

*Handwritten initials and date: J.R. 9/11*

*George H. Lanning*  
ASSISTANT SECRETARY

By *Allen Whitt*  
VICE PRESIDENT

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

ATTEST:

WILTON M. FISHER

\_\_\_\_\_  
Secretary

By *Wilton M. Fisher*

AND FISHER, his wife

DATE: *July 10, 1958*

*Ann Fisher*



STATE OF OKLAHOMA }  
COUNTY OF TULSA }

SS

Before me this day did appear Wilton M. Fisher and his wife, Ann Fisher for the purpose of acknowledging their signatures to the foregoing instrument on this 10 day of July, 1958.

E. Hughes

Notary Public

My Commission Expires:

September 19, 1959

STATE OF Utah }  
COUNTY OF Salt Lake }

SS

The foregoing instrument was acknowledged before me this 26<sup>th</sup> day of June, 1958, by Allen B. Hiett, Vice President of Pacific Northwest Pipeline Corporation, A Delaware Corporation, on behalf of said Corporation.

Marion L. Carlisle

Notary Public

My Commission Expires:

Sept. 27, 1961

EXHIBIT "A" to Communitization Agreement  
dated \_\_\_\_\_, 19\_\_\_\_,  
embracing Operating Agreement covering  
the Communitization of E/2 Section 28, Township  
29 North, Range 2 West, Rio Arriba County,  
New Mexico

Operator of Communitized Area: Pacific Northwest Pipeline Corporation

DESCRIPTION OF LEASES COMMITTED

Tract No: 1

Lessor: Amadeo M. Herrera and his wife, Tonita S. Herrera, and Orelia Casaus,  
a minor

Lessee of Record: Pacific Northwest Pipeline Corporation

Serial No. of Lease: Patented

Date of Lease: April 10, 1946  
November 19, 1952

Description of Lands Committed: Township 29 North, Range 5 West  
Section 28: SE/4, SW/4 NE/4

Number of Acres: 200

Working Interest and Percentage: Pacific Northwest Pipeline Corporation 100%

O.R.R.I. and Percentage: 5/8 of 4%

Provision of Fee Lease Authorizing Pooling: Committed to San Juan 29-5 Unit Agreement

Exhibit "A" (Cont.)  
Page No. 2

Tract No.: 2

Lessor: Fraxedes E. Salazar, guardian of the estate of Andres Trujillo,  
a minor

Lessee of Record: Pacific Northwest Pipeline Corporation

Serial No. of Lease: Patented

Date of Lease: September 4, 1953

Description of Lands Committed: Township 29 North, Range 5 West  
Section 28: NW/4 NE/4

Number of Acres: 40

Working Interest and Percentage: Pacific Northwest Pipeline Corporation 100%

O.R.R.I. and Percentage: None

Provision of Fee Lease Authorizing Pooling: Committed to San Juan 29-5 Unit Agreement

Exhibit "A" (Cont.)  
Page No. 3

Tract No.: 3

Fee Owner

Lesser: Wilton M. Fisher and his wife, Ann Fisher

Lessee of Record: No lease

Serial No. of Lease: ----

Date of Lease: ----

Description of Lands Committed: Township 29 North, Range 5 West  
Section 28: E/2 NE/4

Number of Acres: 80

Working Interest and Percentage: Wilton M. Fisher 100%

O.R.R.I. and Percentage: None

Provision of Fee Lease Authorizing Pooling: -----

RECAPITULATION

<u>Tract</u>	<u>Number of Acres Committed</u>	<u>Percent of Interest in Unit</u>
I	200	62.5%
II	40	12.5%
III	<u>80</u>	<u>25.0%</u>
TOTALS	320	100.0%

*File Case*

**PACIFIC NORTHWEST PIPELINE CORPORATION**

**SALT LAKE CITY, UTAH**

July 8, 1958

**418**  
**MAIN OFFICE OCC**

**P. O. Box 1526  
SALT LAKE CITY 10, UTAH**

**1958 JUL 14 AM 8:41**

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
of the State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
of the State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
SIXTEENTH EXPANDED PARTICIPATING  
AREA FOR THE MESAVERDE FORMATION and  
NOTICE OF COMPLETION OF ADDITIONAL  
WELLS  
Effective: July 1, 1958

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 29-5 Unit Agreement, approved November 2, 1952, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that an additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit, and that the participating area for the Mesaverde formation is herewith expanded to include this well. Also this is to advise of two additional wells being completed on Intervening Drilling Blocks within this unit. The well data upon which this Sixteenth Expansion is based is as follows:

SAN JUAN 29-5 MESAVERDE WELL #43-22

LOCATION:	990' from South line and 990' from West line of Section 22, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6696' (grd)
SPUD DATE:	May 29, 1958
CASING:	10 3/4" cemented at 192' with 200 sx 7 5/8" cemented at 3929' with 200 sx 5 1/2" cemented at 6064' with 200 sx
TOTAL DEPTH:	6064'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.
COMPLETION METHOD:	Perforated 5 1/2" casing and water fraced Cliff House intervals from 5518' to 5530' and Menefee intervals from 5538' to 5682' and Point Lookout intervals from 5816' to 5962'

TUBING: 2" hung at 6000'

COMPLETION TEST DATA

DATE: June 24, 1958

SHUT-IN-PERIOD: 7 days

FINAL SHUT-IN-PRESSURES: Tubing 517#  
Casing 1057#

RATE BY PITOT TUBE AFTER  
3 HOUR BLOW DOWN: 3007 Mcfgpd, CAOF 4237 Mcfgpd

San Juan 29-5 Mesaverde Well #43-22 is located upon the drilling block described as the W/2 of Section 22, Township 29 North, Range 5 West, N.M.P.M. This drilling block containing 320 acres is hereby admitted to the Mesaverde Participating Area. In addition, an intervening drilling block described as the E/2 of Section 21, Township 29 North, Range 5 West, is created by the completion of Mesa Well #43-22 and the previous completion of Mesa Well #16-21 located upon the drilling block described as the W/2 of Section 21, Township 29 North, Range 5 West, N.M.P.M. The 320 acres contained in this intervening drilling block are herewith included within the participating area of the Mesaverde formation. However, 80 acres described as the E/2 of the SE/4 of Section 21 is not committed to the unit and will not share in unit proceeds until so committed.

SAN JUAN 29-5 MESAVERDE WELL #28-20

LOCATION: 990' from the South line 990' from the  
West line of Section 20, T 29 N, R 5 W, N.M.P.M.

ELEVATION: 6730' (grd)

SPUD DATE: April 18, 1958

CASING: 10 3/4" cemented at 197' with 200 sx  
7 5/8" cemented at 3949' with 200 sx  
5 1/2" cemented at 6087' with 200 sx

TOTAL DEPTH: 6071'

DRILLING METHODS: Drilled with mud to 7 5/8" casing point;  
drilled with gas from 7 5/8" casing point  
to total depth.

COMPLETION METHOD: Perforated 5 1/2" casing and water fraced  
Cliff House intervals 5468' to 5550' and  
Menefee intervals from 5646' to 5780' and  
Point Lookout intervals from 5854' to 6008'

TUBING: 1 1/4" hung at 5992'

COMPLETION TEST DATA

DATE: June 24, 1958

SEUT-IN-PERIOD: 12 days

FINAL SHUT-IN-PRESSURES: Tubing 1091#  
Casing 1091#

RATE BY PITOT TUBE AFTER  
3 HOUR BLOW DOWN: 1658 Mcfgpd, CAOF 3985 Mcfgpd

San Juan 29-5 Mesa Well #28-20 is located upon the drilling block described as the W/2 of Section 20, Township 29 North, Range 5 West, N.M.P.M. This drilling block containing 320 acres has been previously admitted to the Mesaverde Participating Area effective May 1, 1957. However, with the completion of Well #28-20 there is created an intervening drilling block in the w/2 of Section 29, Township 29 North, Range 5 West, due to the previous completion of Well #38-32 in the W/2 of Section 32, Township 29 North, Range 5 West. This intervening drilling block containing 320 acres is hereby admitted to the Mesaverde Participating Area.

SAN JUAN 29-5 MESAVERDE WELL #41-31

LOCATION: 990' from the North line 1090' from the  
East line of Section 31, T 29 N, R 5 W, N.M.P.M.

ELEVATION: 6567' (grd)

SPUD DATE: May 12, 1958

CASING: 10 3/4" cemented at 198' with 200 sx  
7 5/8" cemented at 3580' with 200 sx  
5 1/2" cemented at 5780' with 200 sx

TOTAL DEPTH: 5780'

DRILLING METHODS: Drilled with mud to 7 5/8" casing point;  
drilled with gas from 7 5/8" casing point  
to total depth.

COMPLETION METHOD: Perforated 5 1/2" casing and water fraced  
Cliff House intervals from 5186' to 5256'  
and Menefee intervals from 5322' to 5352'  
and Point Lookout intervals from 5564' to  
5712'

TUBING: 1 1/4" hung at 5684'

Page 3 - San Juan 29-5 Unit  
Sixteenth Expansion - Mesaverde  
July 8, 1958

TUBING: 1 1/4" hung at 5992'

COMPLETION TEST DATA

DATE: June 24, 1958

SHUT-IN-PERIOD: 12 days

FINAL SHUT-IN-PRESSURES: Tubing 1091#  
Casing 1091#

RATE BY PITOT TUBE AFTER  
3 HOUR BLOW DOWN: 1658 Mcfgpd, CAOF 3985 Mcfgpd

San Juan 29-5 Mesa Well #28-20 is located upon the drilling block described as the W/2 of Section 20, Township 29 North, Range 5 West, N.M.P.M. This drilling block containing 320 acres has been previously admitted to the Mesaverde Participating Area effective May 1, 1957. However, with the completion of Well #28-20 there is created an intervening drilling block in the W/2 of Section 29, Township 29 North, Range 5 West, due to the previous completion of Well #38-32 in the W/2 of Section 32, Township 29 North, Range 5 West. This intervening drilling block containing 320 acres is hereby admitted to the Mesaverde Participating Area.

SAN JUAN 29-5 MESAVERDE WELL #41-31

LOCATION: 990' from the North line 1090' from the  
East line of Section 31, T 29 N, R 5 W, N.M.P.M.

ELEVATION: 6567' (grd)

SPUD DATE: May 12, 1958

CASING: 10 3/4" cemented at 198' with 200 sx  
7 5/8" cemented at 3580' with 200 sx  
5 1/2" cemented at 5780' with 200 sx

TOTAL DEPTH: 5780'

DRILLING METHODS: Drilled with mud to 7 5/8" casing point;  
drilled with gas from 7 5/8" casing point  
to total depth.

COMPLETION METHOD: Perforated 5 1/2" casing and water fraced  
Cliff House intervals from 5186' to 5256'  
and Menefee intervals from 5322' to 5352'  
and Point Lookout intervals from 5564' to  
5712'

TUBING: 1 1/4" hung at 5684'



COMPLETION TEST DATA

DATE: June 24, 1958  
SHUT-IN-PERIOD: 7 days  
FINAL SHUT-IN-PRESSURES: Tubing 614#  
Casing 1112#  
RATE BY PITOT TUBE AFTER  
3 HOUR BLOW DOWN: 1812 Mcfgpd, CAOF 5420 Mcfgpd

San Juan 29-5 Mesa Well #41-31 is located upon the drilling block described as the E/2 of Section 31, Township 29 North, Range 5 West. This drilling block containing 320 acres has been previously admitted to the Mesaverde Participating Area as an intervening drilling block effective December 1, 1957. However, with the completion of Well #41-31 there is created an intervening drilling block in the E/2 of Section 30, Township 29 North, Range 5 West, due to the previous completion of Well #27-19 located in the E/2 of Section 19, Township 29 North, Range 5 West. This intervening drilling block containing 320 acres is hereby admitted to the Mesaverde Participating Area.

Attached is Schedule XVII, showing the sixteenth expanded participating area for the Mesaverde formation for the subject unit. This describes the expanded participating area and gives the percentage of unitized substances allocated to each unitized tract.

Attached as Exhibit "A" is the Plat of San Juan 29-5 Unit Mesaverde Participating Area.

Copies of this letter and schedule are being sent to all Working Interest Owners within San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

  
Claude Van Dyke

District Manager, Land Department

CVD:jc

Attachments

# PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

June 17, 1958

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELLS FOR THE MESAVERDE FORMATION

Pursuant to Section 11 (a) of San Juan 29-5 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that two additional wells capable of producing unitized substances in paying quantities from the Mesaverde formation have been completed upon acreage committed to this Unit.

The well data is as follows:

## SAN JUAN 29-5 MESAVERDE WELL #25-18

LOCATION:	1650' from the North line and 1650' from the East line of Section 18, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6500' (grd)
SPUD DATE:	April 24, 1958
CASING:	10 3/4" cemented at 195' with 200 sx 7 5/8" cemented at 3680' with 200 sx 5 1/2" cemented at 5850' with 200 sx
TOTAL DEPTH:	5850'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth

Well Completions  
San Juan 29-5  
June 17, 1958  
Page 2

COMPLETION METHOD: Perforated 5 1/2" casing. Aqua-fraced (water only) Point Lookout intervals from 5614' to 5798', Menefee intervals from 5470' to 5480', Cliff House intervals from 5294' to 5324'

TUBING: 1 1/4" hung at 5774'

COMPLETION TEST DATA

DATE: May 28, 1958

SHUT-IN-PERIOD: 21 days

FINAL SHUT-IN Tubing 901#  
PRESSURES: Casing 1068#

RATE THROUGH TUBING  
AND 3/4" CHOKE AFTER  
3 HOUR BLOW DOWN: 1790' mcf/gpd; CAOF 5,034 mcf/gpd.

San Juan 29-5 Mesaverde Well #25-18 is located upon the drilling block described as the E/2 of Section 18, T 29 N, R 5 W. This drilling block was included as an Intervening Drilling Block in the Mesaverde Participating Area effective May 1, 1957. Therefore, the Mesaverde Participating Area is not enlarged with this completion.

SAN JUAN 29-5 MESAVERDE WELL #26-18

LOCATION: 1735' from South line and 1730' from the  
West line of Section 18, T 29 N, R 5 W, N.M.P.M.

ELEVATION: 6581' (grd)

SPUD DATE: April 27, 1958

CASING: 10 3/4" cemented at 194' with 200 sx  
7 5/8" cemented at 3714' with 200 sx  
5 1/2" cemented at 5912' with 200 sx

TOTAL DEPTH: 5912'

DRILLING METHODS: Drilled with mud to 7 5/8" casing point;  
drilled with gas from 7 5/8" casing point  
to total depth

Well Completions  
San Juan 29-5  
June 17, 1958  
Page 3

COMPLETION METHOD: Perforated 5 1/2" casing. Aqua-fraced (water only) Point Lookout intervals from 5708' to 5870', Menefee intervals from 5566' to 5576', Cliff House intervals from 5372' to 5420'

TUBING: 1 1/4" hung at 5867'

COMPLETION TEST DATA

DATE: May 26, 1958

SHUT-IN-PERIOD: 20 days

FINAL SHUT-IN Tubing 1075#  
PRESSURES: Casing 1110#

RATE THROUGH TUBING  
AND 3/4" CHOKE AFTER  
3 HOUR BLOW DOWN: 1991 mcfgpd CAOF 7451 mcfgpd.

San Juan 29-5 Mesaverde Well #26-18 is located upon the drilling block described as W/2 of Section 18, T 29 N, R 5 W. This drilling block was included as an Intervening Drilling Block in the Mesaverde Participating Area effective June 1, 1957. Therefore, the Mesaverde Participating Area is not enlarged with this completion. The present participation in the Mesaverde formation in the subject unit is as shown on Schedule XVI for the Fifteenth Expanded Participating Area, effective December 1, 1957.

Copies of this letter are being sent to all working interest owners within the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

*Claude Van Dyke*

Claude Van Dyke  
District Manager, Land Department

CVD:jc

**PACIFIC NORTHWEST PIPELINE CORPORATION**

**SALT LAKE CITY, UTAH**

July 23, 1957

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
P. O. Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Gentlemen:

*file*

1957 JUL 31 AM 8:17  
MAIN OFFICE OCC

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
THIRTEENTH EXPANDED PARTICIPATING AREA  
FOR THE MESAVERDE FORMATION  
Effective: July 1, 1957

Pursuant to Section 11 (a) of the San Juan 29-5 Unit Agreement, approved November 2, 1952, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that three (3) additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this unit, and that the participating area for the Mesaverde Formation is accordingly expanded.

The well data upon which this Thirteenth Expansion is based is as follows:

SAN JUAN 29-5 MESAVERDE WELL #12-30

LOCATION:	990' from South line and 990' from West line of Section 30, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6463' (grd)
SPUD DATE:	May 9, 1957
CASING:	10 3/4" cemented at 235' with 200 sx 7 5/8" cemented at 3600.12' with 150 sx 5 1/2" cemented at 5760' with 200 sx
TOTAL DEPTH:	5760'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

Page 2

Thirteen Expansion - Mesaverde  
San Juan 29-5

COMPLETION METHOD: Perforated 5 1/2" casing. Aqua-fraced Point Lookout intervals from 5562' to 5718'. Aqua-fraced Menefee intervals from 5264' to 5476' and Cliff House intervals from 5194' to 5264'.

TUBING: 2" hung at 5200'

COMPLETION TEST DATA

DATE: June 28, 1957

SHUT-IN-PERIOD: 7 days

FINAL SHUT-IN-PRESSURES: Tubing 1010 #  
Casing 1032 #

RATE THROUGH TUBING AND 3/4" CHOKE AFTER 3 HOUR BLOW DOWN: 2466 Mcfgpd; CAOF 2539 Mcfgpd.

San Juan 29-5 Mesaverde Well #12-30 is located upon the drilling block described as the W/2 Section 30, Township 29 North, Range 5 West. This drilling block, containing 320 acres, is hereby admitted to the participating area.

SAN JUAN 29-5 MESAVERDE WELL #19-6

LOCATION: 975' from North line and 1770' from East line of Section 6, T 29 N, R 5 W, N.M.P.M.

ELEVATION: 6670' (grd)

SPUD DATE: April 22, 1957

CASING: 10 3/4" cemented at 225' with 200 sx  
7 5/8" cemented at 3950' with 150 sx  
5 1/2" cemented at 6010' with 150 sx

TOTAL DEPTH: 6010'

DRILLING METHODS: Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

Page 3  
Thirteenth Expansion - Mesaverde  
San Juan 29-5

COMPLETION METHOD: Perforated 5 1/2" casing. Aqua-fraced Point Lookout intervals from 5816' to 5968'. Aqua-fraced Menefee intervals from 5722' to 5762' and Cliff House intervals from 5506' to 5544'.

TUBING: 2 3/8" hung at 5786'

COMPLETION TEST DATA

DATE: June 7, 1957

SHUT-IN-PERIOD: 9 days

FINAL SHUT-IN-PRESSURES: Tubing 892#  
Casing 1128#

RATE THROUGH TUBING AND 3/4" CHOKE AFTER 3 HOUR BLOW DOWN: 4134 Mcfgpd; CAOF 8046 Mcfgpd.

San Juan 29-5 Mesaverde Well #19-6 is located upon the drilling block described as the E/2 Section 6, Township 29 North, Range 5 West. This drilling block, containing 320.66 acres, is hereby admitted to the participating area.

SAN JUAN 29-5 MESAVERDE WELL #37-31

LOCATION: 1750' from South line and 1170' from West line of Section 31, T 29 N, R 5 W, N.M.P.M.

ELEVATION: 6458' (grd)

SPUD DATE: May 22, 1957

CASING: 10 3/4" cemented at 200' with 185 sx  
7 5/8" cemented at 3630' with 150 sx  
5 1/2" cemented at 5740' with 150 sx

TOTAL DEPTH: 5740'

DRILLING METHODS: Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

Page 4

Thirteenth Expansion - Mesaverde  
San Juan 29-5

COMPLETION METHOD: Perforated 5 1/2" casing. Aqua-fraced  
Point Lookout intervals from 5532' to  
5696'. Aqua-fraced Menefee intervals  
from 5282' to 5462' and Cliff House  
intervals from 5152' to 5238'.

TUBING: 1 1/4" hung at 5679.83'

COMPLETION TEST DATA

DATE: June 26, 1957

SHUT-IN-PERIOD: 7 days

FINAL SHUT-IN-PRESSURES: Tubing 1070 #  
Casing 1078 #

RATE THROUGH CASING: CAO 6957 Mcfgpd.

San Juan 29-5 Mesaverde Well #37-31 is located upon the drilling block described as the W/2 Section 31, Township 29 North, Range 5 West. This drilling block, containing 320 acres, is hereby admitted to the participating area.


Attached is Schedule XIV showing the Thirteenth Expanded Participating Area for the Mesaverde Formation of San Juan 29-5 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

Attached as Exhibit "A" is the plat of San Juan 29-5 Unit Mesaverde Participating Area.

Copies of this letter and schedule are being sent to all Working Interest Owners within the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



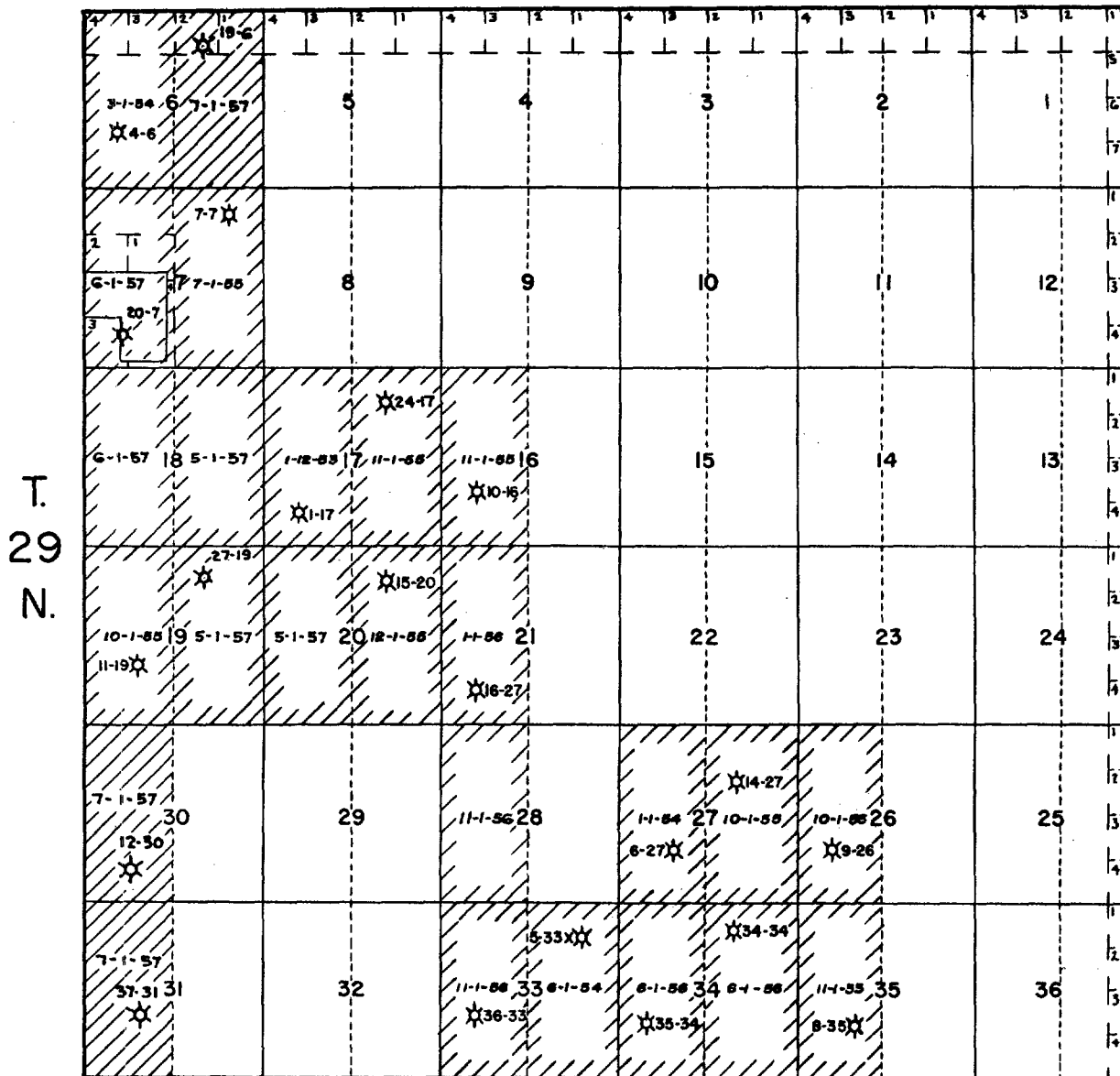
Claude Van Dyke  
District Manager, Land Department

CVD:jc

Attachment



R. 5 W.



**SAN JUAN 29-5 UNIT**

**RIO ARRIBA COUNTY, NEW MEXICO**

## Mesaverde Participating Area

THIRTEENTH REVISION EFFECTIVE JULY 1, 1957

**SCALE** 1 inch = 1 mile



**Participating area.**



**Drilling blocks added to participating area by this revision.**

NOTE: ~~ESSENTIAL~~ DATA OF INFORMATION IS NOT TO BE RELEASED UNLESS IT IS DETERMINED THAT IT IS IN THE INTERESTS OF NATIONAL DEFENSE.

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

MAIN OFFICE OCC

1957 AUG 15 PM 1:34

August 13, 1957

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL

Pursuant to Section 11 (a) of San Juan 29-5 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that an additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit.

The well data is as follows:

SAN JUAN 29-5 MESAVERDE WELL #30-28 ✓

LOCATION:	1650' from South line and 1150' from West line of Section 28, T 29 N, R 5 W. N.M.P.M.
ELEVATION:	6695' (grd)
SPUD DATE:	June 5, 1957
CASING:	10 3/4" cemented at 219' with 200 sx 7 5/8" cemented at 3880' with 200 sx 5 1/2" cemented at 6030' with 200 sx
TOTAL DEPTH:	6030'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

San Juan 29-5 Unit

Page 2

Well Completion

COMPLETION METHOD: Perforated 5 1/2" casing and aqua-fraced  
(water only) Point Lookout intervals  
from 5816' to 5944', Menefee intervals  
from 5598' to 5812' and Cliff House  
intervals from 5486' to 5526'.

TUBING: 1 1/4" hung at 5931'

COMPLETION TEST DATA

DATE: July 8, 1957

SHUT-IN-PERIOD: 7 days

FINAL SHUT-IN-PRESSURES: Tubing 1092 #  
Casing 1089 #

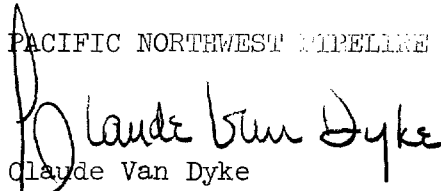
RATE THROUGH TUBING AND  
3/4" CHOKE AFTER 3 HOUR  
BLOW DOWN: 7585 MCFGPD; CAOF

San Juan 29-5 Mesaverde Well #30-28 is located upon the drilling block described as the W/2 of Section 28, Township 29 North, Range 5 West. This drilling block was included as an intervening drilling block in the Mesaverde Participating Area effective November 1, 1956. Therefore, the Mesaverde Participating Area is not enlarged and the present participation is as shown on Schedule XIV for the XIII Expanded Participating Area for the Mesaverde Formation, effective July 1, 1957.

Copies of this letter are being sent to all Working Interest Owners within the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

  
Claude Van Dyke  
District Manager, Land Department

CVD:jc

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

September 25, 1957

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
P. O. Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
FOURTEENTH EXPANDED PARTICIPATING  
AREA FOR THE MESAVERDE FORMATION  
Effective August 1, 1957

With the completion of San Juan 29-5 Mesaverde Well #30-28, notice of which was announced under date of August 13, 1957, an Intervening Drilling Block is created, described as the E/2 Section 28, Township 29 North, Range 5 West. This IDB, containing 320 acres is established by the completion of Well #30-28 and the previous completion of Well #6-27 located upon the drilling block described as the W/2 Section 27, Township 29 North, Range 5 West. This IDB is hereby admitted to the Mesaverde Participating Area, effective August 1, 1957, in accordance with the provisions of Section 11 of San Juan 29-5 Unit Agreement.

Attached is Schedule XV showing the Fourteenth Expanded Participating Area for the Mesaverde Formation of San Juan 29-5 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

Attached as Exhibit "A" is the plat of San Juan 29-5 Unit Mesaverde Participating Area.

Copies of this letter and schedule are being sent to all Working Interest Owners within the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

*Claude Van Dyke*  
Claude Van Dyke  
District Manager, Land Department

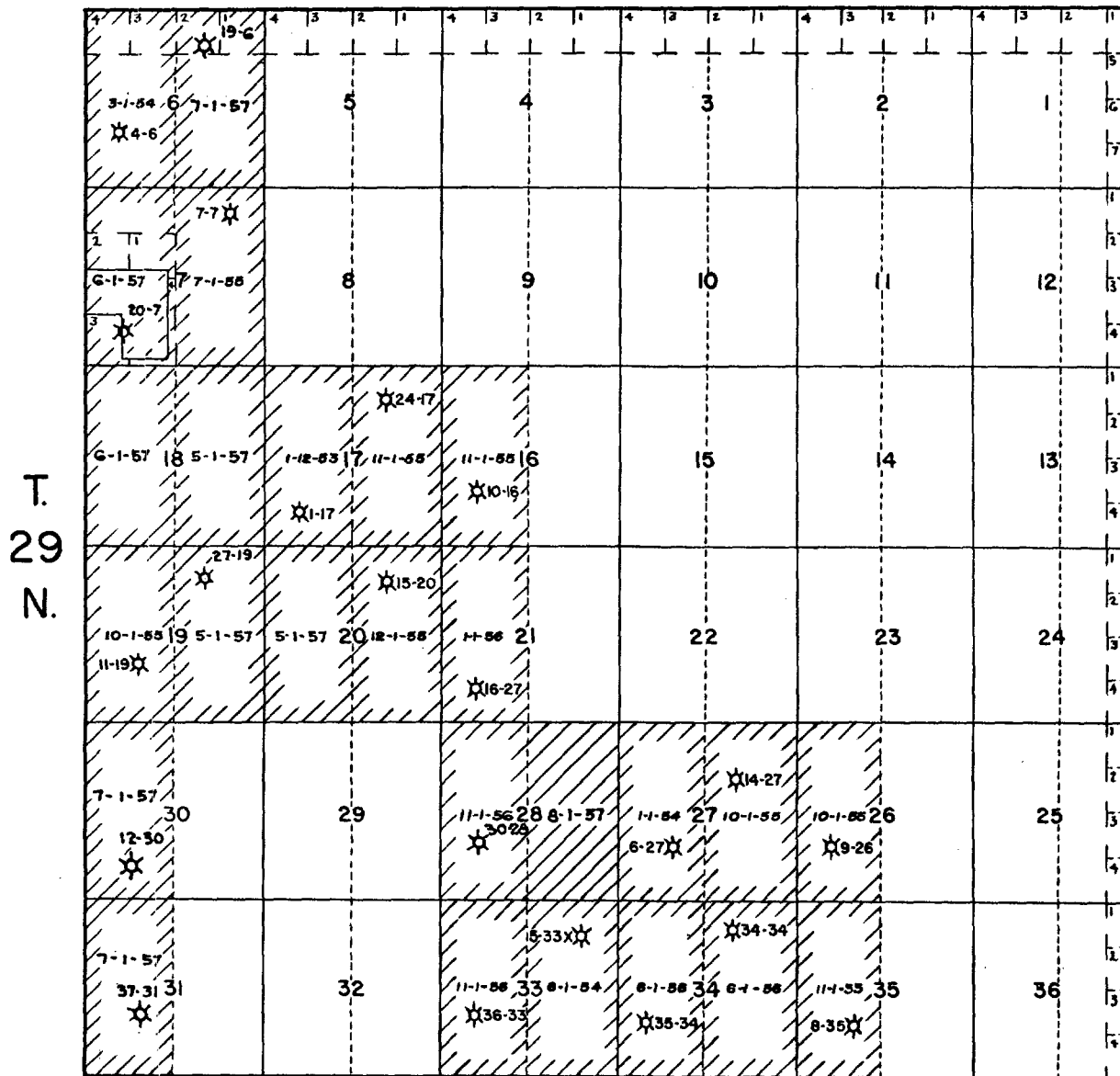
CVD:jc  
Attachment

1957 SEP 27 PM 1:14

MAIL OFFICE OCC

# EXHIBIT "A"

R. 5 W.



## SAN JUAN 29-5 UNIT

RIO ARRIBA COUNTY, NEW MEXICO

Mesaverde Participating Area

FOURTEENTH REVISION EFFECTIVE AUGUST 1, 1957

SCALE 1 inch = 1 mile



Participating area.



Drilling blocks added to participating area by this revision.

NOTE: Effective date of inclusion is shown on each block.

**PACIFIC NORTHWEST PIPELINE CORPORATION**

MAIN OFFICE 000

SALT LAKE CITY, UTAH

December 9, 1957

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

RECEIVED 12/11 8:44

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
FIFTEENTH EXPANDED PARTICIPATING  
AREA FOR THE MESAVERDE FORMATION  
Effective: December 1, 1957

Commissioner of Public Lands  
of the State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
of the State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 29-5 Unit Agreement, approved November 2, 1952, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit, and that the participating area for the Mesaverde formation is accordingly expanded. The well data upon which this fifteenth expansion is based is as follows:

SAN JUAN 29-5 MESAVERDE WELL #38-32

LOCATION:	860' from south line and 1115' from west line of Sec. 32, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6485' (grd)
SPUD DATE:	September 13, 1957
CASING:	10 3/4" cemented at 226' with 200 sx 7 5/8" cemented at 3600' with 200 sx 5 1/2" cemented at 5800' with 200 sx
TOTAL DEPTH:	5800'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.
COMPLETION METHOD:	Perforated 5 1/2" casing and water fraced Cliff House intervals from 5206' to 5278' and Menefee intervals from 5296' to 5302' and Point Lookout intervals from 5574' to 5734'
TUBING:	1 1/4" hung at 5640'

Page 2 - San Juan 29-5 Unit  
Fifteenth Expansion - Mesaverde  
December 1, 1957

COMPLETION TEST DATA

DATE: November 1, 1957  
SHUT-IN-PERIOD: 6 days  
FINAL SHUT-IN-PRESSURES: Tubing 908#  
Casing 1110#  
RATE BY PITOT TUBE AFTER  
3 HOUR BLOW DOWN: 2481 Mcfgpd, Caof

San Juan 29-5 Mesa Well #38-32 is located upon the drilling block described as the W/2 of Section 32, Township 29 North, Range 5 West, N.M.P.M. This drilling block containing 320 acres is hereby admitted to the participating area. In addition, an intervening drilling block described as the E/2 of Section 31, Township 29 North, Range 5 West, N.M.P.M. is created by the completion of Mesa Well #38-32 and the previous completion of Mesa Well #37-31 located upon the drilling block described as the W/2 of Section 31, Township 29 North, Range 5 West, N.M.P.M. Also, an intervening drilling block described as the E/2 of Section 32, Township 29 North, Range 5 West, N.M.P.M., is created by the completion of Well #38-32 and the previous completion of Well #36-33 located upon the drilling block described as the W/2 Section 33, Township 29 North, Range 5 West, N.M.P.M. These intervening drilling blocks, containing 320 acres, are hereby admitted to the Mesaverde Participating Area in accordance with the provisions of Section 11 of San Juan 29-5 Unit Agreement.

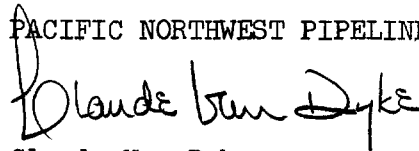
Attached is Schedule XVI, showing the Fifteenth Expanded Participating Area for the Mesaverde Formation of San Juan 29-5 Unit area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

Attached as Exhibit "A" is the Plat of San Juan 29-5 Unit Mesaverde Participating Area.

Copies of this letter and schedule are being sent to all Working Interest Owners within San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



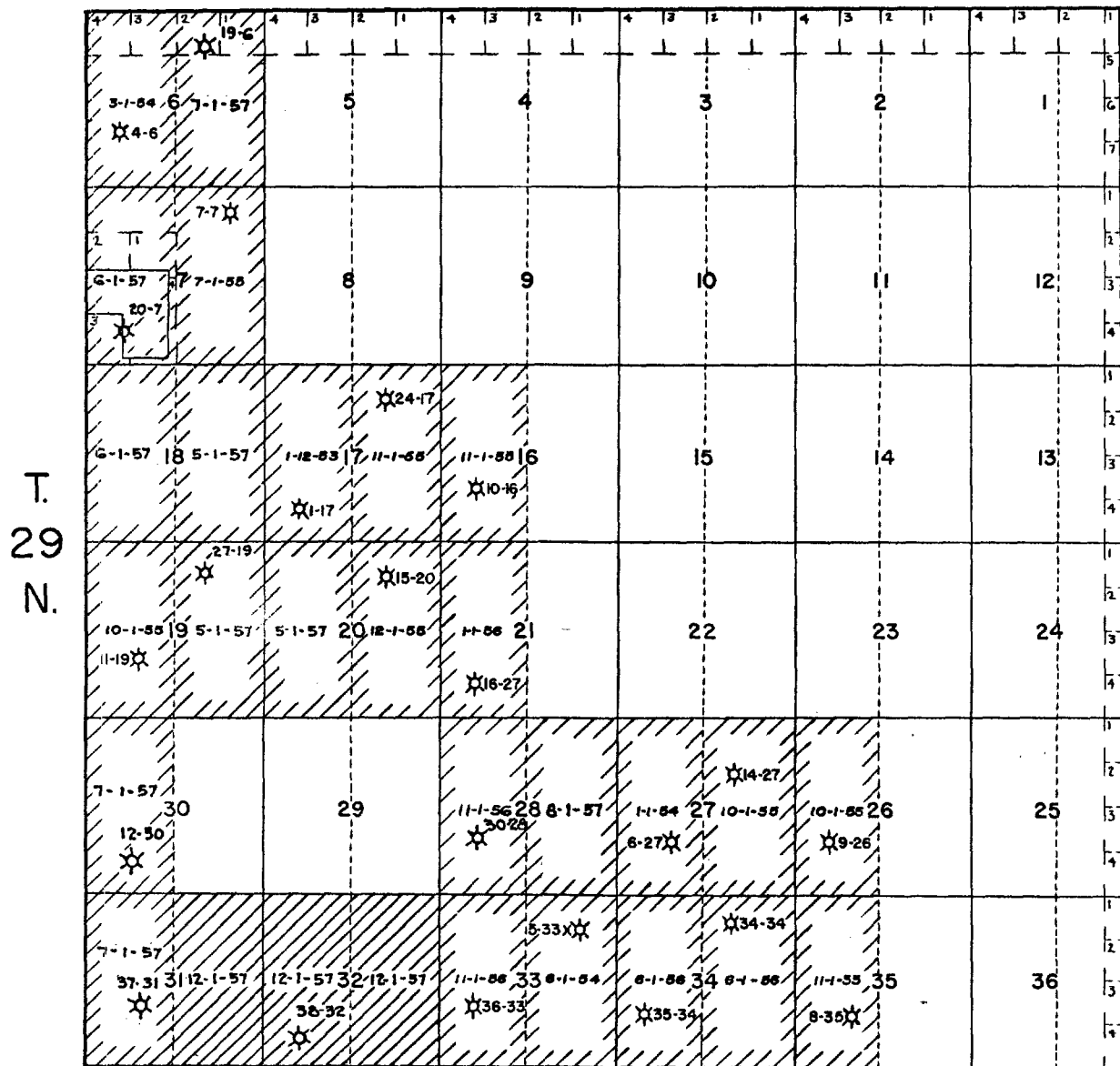
Claude Van Dyke  
District Manager, Land Department

CVD:jc

Attachment

# EXHIBIT "A"

R. 5 W.



## SAN JUAN 29-5 UNIT

RIO ARRIBA COUNTY, NEW MEXICO

Mesaverde Participating Area

FIFTEENTH REVISION EFFECTIVE DECEMBER 1, 1957

SCALE 1 inch = 1 mile



Participating area.



Drilling blocks added to participating area by this revision.

NOTE: Effective date of inclusion is shown on each drilling block.



**PACIFIC NORTHWEST PIPELINE CORPORATION**

**SALT LAKE CITY, UTAH**

June 7, 1957

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
P. O. Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
TWELFTH EXPANDED PARTICIPATING AREA  
FOR THE MESAVERDE FORMATION  
Effective: June 1, 1957

Pursuant to Section 11 (a) of the San Juan 29-5 Unit Agreement, approved November 2, 1952, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that an additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit, and that the participating area for the Mesaverde Formation is accordingly expanded.

The well data upon which this Twelfth Expansion is based is as follows:

SAN JUAN 29-5 MESAVERDE WELL #20-7

LOCATION:	990' from South line and 990' from West line of Section 7, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6484' (grd.)
SPUD DATE:	April 4, 1957
CASING:	10 3/4" cemented at 236' with 200 sx 7 5/8" cemented at 3700' with 150 sx 5 1/2" cemented at 5800' with 150 sx
TOTAL DEPTH:	5803'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

file 418

Page 2  
Twelfth Expansion - Mesaverde  
San Juan 29-5

COMPLETION METHOD: Perforated 5 1/2" casing. Aqua-fraced  
Point Lookout intervals from 5614' to  
5788'. Aqua-fraced Menefee intervals  
from 5336' to 5590' and Cliff House  
intervals from 5276' to 5308'.

TUBING: 2-3/8" hung at 5786'

COMPLETION TEST DATA

DATE: May 17, 1957

SHUT-IN-PERIOD: 7 days

FINAL SHUT-IN-PRESSURES: Tubing 913 #  
Casing 1105 #

RATE THROUGH TUBING AND 4172 Mcfgpd; CAOF 8056 Mcfgpd.  
3/4" CHOKE AFTER 3 HOUR  
BLOW DOWN:

San Juan 29-5 Mesaverde Well #20-7 is located upon the drilling block described as the W/2 Section 7, Township 29 North, Range 5 West. This drilling block, containing 320 acres, is hereby admitted to the participating area. In addition, an intervening drilling block described as the W/2 of Section 18, Township 29 North, Range 5 West, is created by the completion of San Juan 29-5 Mesaverde Well #20-7 and the previous completion of San Juan 29-5 Mesaverde Well #11-19 located upon the drilling block described as the W/2 of Section 19, Township 29 North, Range 5 West.

This intervening drilling block is hereby admitted to the Mesaverde Participating Area in accordance with the provisions of Section 11 of San Juan 29-5 Unit Agreement.

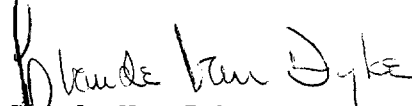
Attached is Schedule XIII showing the Twelfth Expanded Participating Area for the Mesaverde Formation of San Juan 29-5 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

Attached as Exhibit "A" is the plat of San Juan 29-5 Unit Mesaverde Participating Area.

Copies of this letter and schedule are being sent to all Working Interest Owners within the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



Claude Van Dyke  
District Manager, Land Department

CVD:mdc  
Attachment

# PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

May 16, 1957

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
ELEVENTH EXPANDED PARTICIPATING AREA  
FOR THE MESAVERDE FORMATION  
Effective: May 1, 1957

Pursuant to Section 11 (a) of the San Juan 29-5 Unit Agreement, approved November 2, 1952, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that an additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit, and that the participating area for the Mesaverde Formation is accordingly expanded.

The well data upon which this Eleventh Expansion is based is as follows:

## SAN JUAN 29-5 MESAVERDE WELL #27-19

LOCATION:	790' from North line and 1700' from East line of Section 19, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6608' (grd.)
SPUD DATE:	March 21, 1957
CASING:	10 3/4" cemented at 238' with 175 sx 7 5/8" cemented at 3700' with 200 sx 5 1/2" cemented at 5925' with 150 sx
TOTAL DEPTH:	5925'; 5924' PB
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth

TUBING: 2 3/8" hung at 5861'

RATE THROUGH TUBING AND 4084 Mcfgpd.; CAOF 7216 Mcfgpd.  
3/4" CHOKE AFTER 3 HOUR  
BLOW DOWN:

Attached is Schedule XII showing the Eleventh Expanded Participating Area for the Mesaverde Formation of San Juan 29-5 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

Page 3  
Eleventh Expansion - Mesaverde  
San Juan 29-5 Unit

Attached as Exhibit "A" is the plat of San Juan 29-5 Unit Mesaverde Participating Area.

Copies of this letter and schedule are being sent to all Working Interest Owners within the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



Claude Van Dyke  
District Manager, Land Department

CVD:mdc  
Attachment

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

April 24, 1957

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
P. O. Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan Unit 29-5  
Unit Tract #25  
Revised Notice - Transfer  
of Royalty Ownership

This is to revise our letter of April 16, 1957, wherein we advised that the royalty interest in Tract #25 had been transferred by Martin A. Pierce and Beverly Pierce to Frank Gersbach and Mae Gersbach. The ownership in this tract was transferred in part and the division of interest is as follows:

Martin A. Pierce	-	1.40625%
Frank Gersbach and Mae Gersbach	-	.15625%

Please change your records accordingly.

A copy of this letter is being sent to all working interest owners in the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

*Claude Van Dyke*  
Claude Van Dyke  
District Manager, Land Department

CVD:mdc

cc: All Working Interest Owners

*File 418*

**PACIFIC NORTHWEST PIPELINE CORPORATION**

**SALT LAKE CITY, UTAH**

April 16, 1957

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
P. O. Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Gentlemen:

Re: San Juan Unit 29-5  
Unit Tract #25  
Transfer of Royalty Interest  
Ownership

This is to advise that the royalty interest in Tract #25, formerly owned by Martin A. Pierce and Beverly Pierce, has been transferred to Frank Gersbach and Mae Gersbach.

Please change your records accordingly.

A copy of this letter is being sent to all Working Interest Owners in the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

*Claude Van Dyke*

Claude Van Dyke  
District Manager, Land Department

CVD:mdc

cc: All Working Interest Owners

*File 418*



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
P. O. Box 6721  
Roswell, New Mexico

December 19, 1956

Pacific Northwest Pipeline Corporation  
P. O. Box 1526  
Salt Lake City 10, Utah

Attention: Mr. Donald L. Anderson

Gentlemen:

By letter of December 12, 1956, to the Commissioner of Public Lands, State of New Mexico, to the Oil Conservation Commission, State of New Mexico, and to this office, you submitted Allocation Schedule No. XI for the tenth expanded participating area for the Mesaverde formation of the San Juan 29-5 unit area.

The lease serial numbers of tract 17b on page 10 and of tract 4b on page 13 should be NM 011350-A and NM 011348-A, respectively. Corrections have been made on the copies submitted to this office.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

Copy to: Commissioner of Public Lands  
Oil Conservation Commission



PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

December 12, 1956

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
P. O. Box 6721  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
P. O. Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
P. O. Box 871  
Santa Fe, New Mexico

Gentlemen:

Under date of November 27, 1956, we transmitted to you the "Tenth Expanded Participating Area for the Mesaverde Formation for San Juan 29-5 Unit," effective November 1, 1956. In the preparation of this Expansion, an intervening drilling block, described as the W/2 of Section 28, Township 29 North, Range 5 West, was inadvertently omitted.


We have, therefore, prepared a corrected "Tenth Expanded Participating Area for the Mesaverde Formation for San Juan 29-5 Unit," effective November 1, 1956. Will you please accept the enclosed corrected schedules and destroy the schedules previously sent to you under date of November 27, 1956.

We regret any inconvenience this may have caused you.

Copies of this letter and enclosures are being sent to all Working Interest Owners of the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

  
Donald L. Anderson  
District Manager, Land Department

DLA:mdc  
Encls.

# PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

December 11, 1956

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
TENTH EXPANDED PARTICIPATING AREA  
FOR THE MESAVERDE FORMATION  
Effective: November 1, 1956

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 29-5 Unit Agreement, approved November 2, 1952, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that an additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit, and that the participating area for the Mesaverde Formation is accordingly expanded.

The well data upon which this Tenth Expansion is based is as follows:

## SAN JUAN 29-5 MESAVERDE WELL #36-33

LOCATION:	1800' from South line and 990' from West line of Section 33, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6547' (grd.)
SPUD DATE:	September 7, 1956
CASING:	10 3/4" cemented at 173' with 475 sx 7 5/8" cemented at 3667' with 200 sx 5 1/2" cemented at 5926' with 150 sx
TOTAL DEPTH:	5926'; 5912' PB
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth

Tenth Expansion - Mesaverde  
San Juan 29-5 Unit

COMPLETION METHOD

Perforated 5 1/2" casing. Aqua-fraced  
(with sand). Point Lookout intervals from  
5662' to 5788'. Aqua-fraced (water only)  
Menefee intervals from 5410' to 5520' and  
Cliff House intervals from 5274' to 5348'.

TUBING:

2" hung at 5749'

COMPLETION TEST DATA

DATE:

October 11, 1956

SHUT-IN-PERIOD:

7 days

FINAL SHUT-IN-PRESSURES:

Tubing 1082 #  
Casing 1081 #

RATE THROUGH TUBING AND  
3/4" CHOKE AFTER 3 HOUR  
BLOW DOWN:

4392 Mcfgpd.; CAOF 6777 Mcfgpd.

San Juan 29-5 Mesaverde Well #36-33 is located upon the drilling block described as the W/2 Section 33, Township 29 North, Range 5 West. This drilling block is hereby admitted to the participating area. In addition, an intervening drilling block described as the W/2 of Section 28, Township 29 North, Range 5 West, is created by the completion of San Juan 29-5 Mesaverde Well #36-33 and the previous completion of San Juan 29-5 Mesaverde Well #16-21 located upon the drilling block described as the W/2 of Section 21, Township 29 North, Range 5 West. This intervening drilling block is hereby admitted to the Mesaverde Participating Area in accordance with the provisions of Section 11 of San Juan 29-5 Unit Agreement.

Attached is Schedule XI showing the Tenth Expanded Participating Area for the Mesaverde Formation of San Juan 29-5 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

A change of ownership of the Working Interest in Tracts 16b and 17b has occurred effective July 1, 1956. The ownership of the Working Interest of that portion of Tract 4b described as the E/2 NW/4 Section 33, Township 29 North, Range 5 West, has also changed, effective July 1, 1956. Such changes in ownership have been incorporated in the attached schedule.

Attached as Exhibit "A" is the plat of San Juan 29-5 Unit Mesaverde Participating Area.

Copies of this letter and schedule are being sent to all Working Interest Owners within the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



Donald L. Anderson  
District Manager, Land Department

MAIN OFFICE OCC

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

RECEIVED 10 AM 8:51

REPLY TO:  
P. O. Box 1526  
SALT LAKE CITY 10, UTAH

October 10, 1956

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of San Juan 29-5 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that an additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit.

The well data is as follows:

SAN JUAN 29-5 MESAVERDE WELL #34-34

LOCATION:	805' from North line and 1850' from East line of Section 34 T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6794' (grd.)
SPUD DATE:	May 2, 1956
CASING:	10 3/4" cemented at 225' with 150 sx 7 5/8" cemented at 3790' with 200 sx 5 1/2" cemented at 6017' with 200 sx
TOTAL DEPTH:	6017'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth

*file*

San Juan 29-5 Unit

October 10, 1956

COMPLETION METHOD:

Perforated 5 1/2" casing and aquafraced (water only) Lower Point Lookout intervals from 5894' to 5991', Upper Point Lookout intervals from 5832' to 5878', Menefee intervals from 5590' to 5798' and Cliff House intervals from 5496' to 5538'.

TUBING:

2" hung at 5938'

COMPLETION TEST DATA

DATE:

September 25, 1956

SHUT-IN-PERIOD:

7 days

FINAL SHUT-IN-PRESSURES:

Tubing 1122 #  
Casing 1122 #

RATE THROUGH TUBING AND  
3/4" CHOKE AFTER 3 HOUR  
BLOW DOWN:

2,812 MCFGPD; CAOF 3,923 MCFGPD

San Juan 29-5 Mesaverde Well #34-34 is located upon the drilling block described as the E/2 of Section 34, Township 29 North, Range 5 West. This drilling block was included as an intervening drilling block in the Mesaverde Participating Area effective June 1, 1956. Therefore, the Mesaverde Participating Area is not enlarged and the present participation is as shown on Schedule X for the Ninth Expanded Participating Area for the Mesaverde Formation, effective June 1, 1956.

Copies of this letter are being sent to all Working Interest Owners within the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



Donald L. Anderson, District Manager  
Land Department

DLA:mb



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
P. O. Box 6721  
Roswell, New Mexico

December 7, 1956

Pacific Northwest Pipeline Corporation  
P. O. Box 1526  
Salt Lake City 10, Utah

Attention: Mr. Donald L. Anderson

Gentlemen:

By letter dated November 27, 1956, you submitted to this office, to the Commissioner of Public Lands, State of New Mexico, and to the Oil Conservation Commission, State of New Mexico, Allocation Schedule No. YI for the tenth expanded participating area for the Mesaverde formation of San Juan 29-5 unit area.

The schedule appears to be in error inasmuch as it does not take into consideration the W $\frac{1}{4}$  sec. 28, which became an intervening drilling block with the completion of well No. 36-33 in the SW $\frac{1}{4}$  sec. 33 upon which well the tenth expanded participating area is predicated.

Four copies of the proposed schedule and your letter of November 27 are returned herewith for appropriate correction and refileing. Please attach to each copy of the allocation schedule a plat showing by distinctive color or pattern the tracts in the existing participating area and the tracts being added by the expansion.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON  
Regional Oil and Gas Supervisor

Encl.

Copy to: Oil Cons. Div., Santa Fe  
✓

417  
PACIFIC NORTHWEST PIPELINE CORPORATION

HOUSTON, TEXAS

June 5, 1956

REPLY TO:  
PRODUCTION DEPARTMENT  
520 SIMMS BUILDING  
ALBUQUERQUE, NEW MEXICO

Regional Supervisor  
United States Geological Survey  
Post Office Box 6721  
Roswell, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NINTH EXPANDED PARTICIPATING AREA  
FOR THE MESAVERDE FORMATION  
Effective: June 1, 1956

Commissioner of Public Lands  
State of New Mexico  
Post Office Box 791  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Post Office Box 871  
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 29-5 Unit Agreement, approved November 2, 1952, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this unit, and that the participating area for the Mesaverde Formation is accordingly expanded.

The well data upon which this Ninth Expansion is based is as follows:

SAN JUAN 29-5 MESAVERDE WELL #35-34

LOCATION:	1670' from South line and 856' from West line of Section 34, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6631' (grd.)
SPUD DATE:	April 9, 1956
CASING:	10 3/4" cemented at 225' with 150 sx 7 5/8" cemented at 3735' with 200 sx 5 1/2" cemented at 5970' with 200 sx
TOTAL DEPTH:	5970'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth

COMPLETION METHOD: Perforated 5 1/2" casing and aqua-fraced (water only) Lower Point Lookout intervals from 5922 to 5824, Upper Point Lookout intervals from 5810' to 5770' and Menefee and Cliff House intervals from 5528' to 5416'.

TUBING: 2" hung at 5928'

COMPLETION TEST DATA

DATE: May 8, 1956

SHUT-IN-PERIOD: 11 days

FINAL SHUT-IN-PRESSURES: Tubing 969#  
Casing 1127#

RATE THROUGH TUBING AND  
3/4" CHOKE BY PITOT TUBE  
AFTER 3 HOUR BLOW DOWN: 4189 Mcfgpd.

San Juan 29-5 Mesaverde Well #35-34 is located upon the drilling block described as the W/2 of Section 34, Township 29 North, Range 5 West. This drilling block is hereby admitted to the participating area. In addition, an intervening drilling block described as the E/2 of Section 34, Township 29 North, Range 5 West is created by the completion of San Juan 29-5 Mesaverde Well #35-34 and the previous completion of San Juan 29-5 Mesaverde Well #8-35 located upon the drilling block described as the W/2 of Section 35, Township 29 North, Range 5 West. This intervening drilling block is hereby admitted to the Mesaverde Participating Area in accordance with the provisions of Section 11 of the San Juan 29-5 Unit Agreement.

Attached is Schedule X showing the Ninth Expanded Participating Area for the Mesaverde Formation of San Juan 29-5 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

In addition to the above, San Juan 29-5 Mesaverde Well #14-27 was completed upon acreage already included in the Participating Area for the Mesaverde Formation. This well is located upon the drilling block described as the E/2 of Section 27, Township 29 North, Range 5 West which was included as an intervening drilling block in the Fifth Expanded Participating Area for the Mesaverde Formation effective October 1, 1955.

The well data for the San Juan 29-5 Mesaverde Well #14-27 is as follows:

SAN JUAN 29-5 MESAVERDE WELL #14-27

LOCATION: 1650' from North line and 1800' from East line of Section 27, T 29 N, R 5 W, N.M.P.M.

ELEVATION: 6867.3' (grd.)

SPUD DATE: March 26, 1956



Page Three  
Ninth Expansion - Mesaverde  
San Juan 29-5 Unit

CASING: 10 3/4" cemented at 219' with 150 sx  
7 5/8" cemented at 4015' with 180 sx  
5 1/2" cemented at 6259' with 200 sx

TOTAL DEPTH: 6260'

DRILLING METHODS: Drilled with mud to 7 5/8" casing point;  
drilled with gas from 7 5/8" casing point  
to total depth.

COMPLETION METHOD: Perforated 5 1/2" casing and aqua-  
fraced (water only) Point Lookout intervals  
from 6064' to 6148' and Menefee intervals  
from 5986' to 6046' and Menefee and Cliff  
House intervals from 5696' to 5842'.

TUBING: 2" hung at 6136'

COMPLETION TEST DATA

DATE: May 4, 1956

SHUT-IN-PERIOD: 7 days

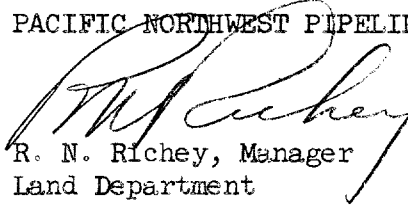
FINAL SHUT-IN-PRESSURES: Tubing 1080#  
Casing 1065#

RATE THROUGH TUBING AND 3/4"  
CHOKE BY PITOT TUBE AFTER 3  
HOUR BLOW DOWN: 2,034 Mcfgpd.

Copies of this letter and Schedule are being sent to all Working Interest Owners within San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

  
R. N. Richey, Manager  
Land Department

DLA:mhg  
Attachment

# PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 7-0211 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

April 9, 1956

Regional Supervisor  
United States Geological Survey  
Department of the Interior  
Roswell, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF ADDITIONAL  
WELL.

Commissioner of Public Lands  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of San Juan 29-5 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that an additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit.

The well data is as follows:

## SAN JUAN 29-5 MESAVERDE WELL #24-17

LOCATION:	990' from North line and 1650' from East line of Section 17, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6,591.7' (grd.)
SPUD DATE:	January 18, 1956
CASING:	10 3/4" cemented at 210' with 160 sx 7 5/8" cemented at 3585' with 200 sx 5 1/2" cemented at 5927' with 150 sx
TOTAL DEPTH:	5930'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth

San Juan 29-5 Unit

April 9, 1956

COMPLETION METHOD:

Perforated 5 1/2" casing and aqua-fraced (water only) Cliff House intervals from 5408' to 5446' and Menefee intervals from 5470' to 5634' and Point Lookout intervals from 5732' to 5828'

TUBING:

2" hung at 5896'

COMPLETION TEST DATA

DATE:

March 1, 1956

SHUT-IN-PERIOD:

8 days

FINAL SHUT-IN-PRESSURES:

Tubing 1048 #  
Casing 1130 #

RATE THROUGH TUBING AND  
3/4" CHOKE BY PITOT TUBE  
AFTER 3 HOUR BLOW DOWN:

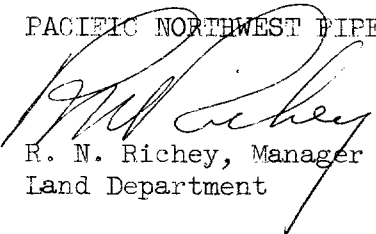
4,252 Mcfgpd.

San Juan 29-5 Mesaverde Well #24-17 is located upon the drilling block described as the E/2 of Section 17, Township 29 North, Range 5 West. This drilling block was included as an intervening drilling block in the Mesaverde Participating Area effective November 1, 1955. Therefore, the Mesaverde Participating Area is not enlarged and the present participation is as shown on Schedule IX for the Eighth Expanded Participating Area for the Mesaverde Formation, effective January 1, 1956.

Copies of this letter are being sent to all Working Interest Owners within the San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

  
R. N. Richey, Manager  
Land Department

DIA:jce

# PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 7-0211 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

January 9, 1956

Regional Supervisor  
United States Geological Survey  
Department of the Interior  
Roswell, New Mexico

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
EIGHTH EXPANDED PARTICIPATING AREA  
FOR THE MESAVERDE FORMATION  
Effective: January 1, 1956

Commissioner of Public Lands  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 29-5 Unit Agreement, approved November 2, 1952, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that an additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit, and that the participating area for the Mesaverde Formation is accordingly expanded.

The well data upon which this Eighth Expansion is based is as follows:

## SAN JUAN 29-5 MESAVERDE WELL #16-21

LOCATION:	990' from South line and 990' from West line of Section 21, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6,702.3' (grd.)
SPUD DATE:	November 15, 1955
CASING:	10 3/4" cemented at 200' with 160 sx 7 5/8" cemented at 3655' with 185 sx 5 1/2" cemented at 6040' with 150 sx
TOTAL DEPTH:	6040'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth

Page Two  
Eighth Expansion - Mesaverde  
San Juan 29-5 Unit

January 9, 1956

COMPLETION METHOD:

Perforated 5 1/2" casing and aqua-  
fraced Upper Point Lookout intervals  
from 5840' to 5912' and Lower Point  
Lookout intervals from 5934' to 6030'

TUBING:

2" hung at 5990'

COMPLETION TEST DATA

DATE:

December 27, 1955

SHUT-IN-PERIOD:

8 days

FINAL SHUT-IN-PRESSURES:

Tubing 1101 #  
Casing 1095 #

RATE BY PILOT TUBE AFTER  
3 HOUR BLOW DOWN:

4,628 Mcfgpd.

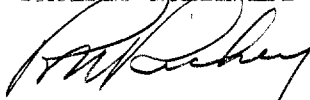
San Juan 29-5 Mesaverde Well #16-21 is located upon the drilling block described as the W/2 of Section 21, Township 29 North, Range 5 West, N.M.P.M. This drilling block is hereby admitted to the participating area.

Attached is Schedule IX showing the Eighth Expanded Participating Area for the Mesaverde Formation of San Juan 29-5 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract. A change of ownership of the Working Interest in Tracts 16a and 16b has occurred effective January 1, 1956. Such changes in ownership have been incorporated in the attached schedule.

Copies of this letter and Schedule are being sent to all Working Interest Owners within San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



R. N. Richey, Manager  
Land Department

DLA:jce  
Attachment

# PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 3-3547 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

December 7, 1955

Regional Supervisor  
United States Geological Survey  
Department of the Interior  
Roswell, New Mexico

Commissioner of Public Lands  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Oil Conservation Commission  
State of New Mexico  
Capitol Annex Building  
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 29-5 Unit Agreement, approved November 2, 1952, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that an additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit, and that the participating area for the Mesaverde Formation is accordingly expanded.

The well data upon which this Seventh Expansion is based is as follows:

## SAN JUAN 29-5 MESAVERDE WELL #15-20

LOCATION:	1090' from North line and 1650' from East line of Section 20, T 29 N, R 5 W, N.M.P.M.
ELEVATION:	6,613.6' (grd.)
SPUD DATE:	October 7, 1955
CASING:	10 3/4" cemented at 195' with 140 sx 7 5/8" cemented at 3571' with 200 sx 5 1/2" cemented at 5930' with 125 sx
TOTAL DEPTH:	5930'

Re: San Juan 29-5 Unit #14-08-001-437  
Rio Arriba County, New Mexico  
SEVENTH EXPANDED PARTICIPATING AREA  
FOR THE MESAVERDE FORMATION  
Effective: December 1, 1955

*fill*

December 7, 1955

DRILLING METHODS:

Drilled with mud to 7 5/8" casing point;  
drilled with gas from 7 5/8" casing  
point to total depth

COMPLETION METHOD:

Perforated 5 1/2" casing and aqua-fraced  
Cliff House intervals from 5418' to 5460',  
Manefee intervals from 5524' to 5698' and  
Point Lookout intervals from 5742' to 5850'

TUBING:

2" hung at 5870'

COMPLETION TEST DATA

DATE:

November 20, 1955

SHUT-IN-PERIOD:

8 days

FINAL SHUT-IN-PRESSURES:

Tubing 1055 #  
Casing 1095 #

RATE BY PITOT TUBE AFTER  
3 HOUR BLOW DOWN:

5,935 Mcfgpd

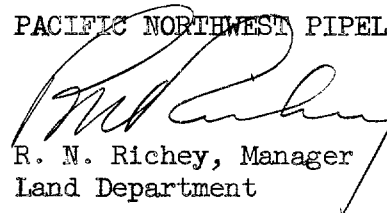
San Juan 29-5 Mesaverde Well #15-20 is located upon the drilling block described as the E/2 of Section 20, Township 29 North, Range 5 West, N.M.P.M. This drilling block is hereby admitted to the participating area.

Attached is Schedule VIII showing the Seventh Expanded Participating Area for the Mesaverde Formation of San Juan 29-5 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

Copies of this letter and Schedule are being sent to all Working Interest Owners within San Juan 29-5 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



R. N. Richey, Manager  
Land Department

DLA:jce  
Attachment