

WELL	LOCATION			CUM. PROD. TO 1-1-75	1-1-75 TO												CUM. PRODUCTION TO 12-1-75	INITIAL AOF (Calc)	MCF/D		
	SECTION	TOWNSHIP	RANGE		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	TOTAL					
13	30	29N	54*																		908
22	08		**																		PCA
32	29		*	1030538	2428	3571	3022	2769	1927	2634	6104	1435	5586	5538	37371	1067909				3185	
45	22		**																		PCA
50	07		**																		PCA
51	19			717206	9885	10494	7581	7633	10385	8237	8096	10293	6973	9933	99967	817173	5674				
52	29			511672	8530	8374	5027	8300	9277	8785	7437	7120	5458	8287	85608	597280	5126				
53	32			424296	7075	5619	5900	6023	6968	5999	6933	7748	7764	5360	70755	495051	2181				
54	31			347548	5379	5005	3549	9863	8368	7485	6185	5342	4559	3808	64510	412158					
55	18			428496	8791	8135	10543	6792	8667	9961	8804	7498	9748	7852	94735	523231					
56	19			361431	10001	9162	8980	4466	8381	8964	8874	9236	7291	6654	89028	450459	3049				
57	20			362412	10013	9016	9084	2699	10811	6357	11685	9846	8857	7377	94217	456629	4546				
58	30			161258	3517	4439	4677	4745	3422	4584	4293	3409	5765	4241	47746	209004	2182				
59	31			263500	8031	5008	8351	7611	8254	8296	8076	7496	8442	5122	81627	345127	3867				
60	32			475267	12348	11833	9448	11033	12272	10353	12535	11058	11614	8843	120742	596009	4473				
62	07			160137	11979	9433	9333	7181	5673	5408	9320	7863	9520	8409	93460	253597	4083				
63	17			130280	10966	8752	12105	5436	7506	7902	11545	9643	7416	6032	94734	225014	4109				
64	21			168686	12544	12812	14090	10421	13583	11592	7875	14245	11168	6614	126608	295294	3075				
65	28			148223	89591	6597	4479	8512	8163	8080	7254	7824	6578	7681	83389	231612	3219				
66	33			221346	18044	14618	10423	15449	13802	9057	18400	15262	15540	8601	153346	374692	4706				
67	20			95396	5532	4840	6300	3104	5280	5416	5243	4057	5127	4533	54346	149742	2844				
68	20			48728	3334	3344	3109	1960	1793	2550	2312	2882	2978	2235	29458	78186	2878				
69	18																				
70	28																				
71*	16																				
75	22																				
77	26																				

\* NON COMMERCIAL  
\*\* PLUGGED AND ABANDONED

# AREA EXPANSION SCHEDULE

## SCHEDULE XII

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

IAL 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>			
			Royalty;	12.50%		
			Working Interest:			
			El Paso Natural Gas Co.;	83.50%		
			ORRI;	4.00%		
			TOTAL	100.00%		3.804348%
SF 078277	T. 29N, R. 5W Sec. 7: SE/4, Lot 3	198.96	<u>TRACT 1-A</u>			
			Royalty;	12.50%		
			Working Interest:			
			El Paso Natural Gas Co.;	83.50%		
			ORRI;	4.00%		
			TOTAL	100.00%		2.703260%
SF 078281	T. 29N, R. 5W Sec. 17: S/2 Sec. 18: E/2 Sec. 20: N/2	960.00	<u>TRACT 2</u>			
			Royalty;	12.50%		
			Working Interest:			
			Phillips Petroleum Co.;	83.50%		
			ORRI;	4.00%		
			TOTAL	100.00%		13.043478%
SF 078282	T. 29N, R. 5W Sec. 19: All Sec. 30: SE/4 SE/4	680.00	<u>TRACT 3</u>			
			Royalty;	12.50%		
			Working Interest:			
			El Paso Natural Gas Co.;	83.50%		
			ORRI;	4.00%		
			TOTAL	100.00%		9.239130%

Effective July 1, 1975

## SCHEDULE XII

-2-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
			OWNERSHIP	PERCENTAGE		
SF 078282	T. 29N, R. 5W					
	Sec. 29: NE/4	280.00	Royalty;	12.50%	12.50%	3,804,348%
	Sec. 31: N/2 NW/4 & NE/4 NE/4		Working Interest; El Paso Natural Gas Co.; ORRI;	83.00% 4.50% 100.00%	83.00% 4.50% 100.00%	
	TOTAL					
NM 011348	T. 29N, R. 5W					
	Sec. 31: NE/4 SW/4 & 120.00 N/2 SE/4		Royalty;	12.50%	12.50%	1,630,435%
			Working Interest; Tom Bolack; ORRI;	87.50% 0.00% 100.00%	87.50% 0.00% 100.00%	
	TOTAL					
NM 011348-A	T. 29N, R. 5W					
	Sec. 33: E/2 NW/4	80.00	Royalty;	12.50%	12.50%	1,086,957%
			Working Interest; American Pet. Co. of Tex.; ORRI;	87.50% 0.00% 100.00%	87.50% 0.00% 100.00%	
	TOTAL					
SF 078410-A	T. 29N, R. 5W					
	Sec. 31: SE/4 SW/4 & S/2 SE/4	120.00	Royalty;	12.50%	12.50%	1,630,435%
			Working Interest; El Paso Natural Gas Co.; ORRI;	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	
	TOTAL					
SF 078917	T. 29N, R. 5W					
	Sec. 26: W/2	320.00	Royalty;	12.50%	12.50%	4,347,826%
			Working Interest; Phillips Petroleum Co.; ORRI;	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	
	TOTAL					

Effective July 1, 1975

## SCHEDULE XII

-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%	5.434783%
			Working Interest:			
			El Paso Natural Gas Co.;	83.00%	83.00%	
			ORRI;	4.50%	4.50%	
			TOTAL	100.00%	100.00%	
NM 011349	T. 29N, R. 5W Sec. 27: SW/4	160.00	<u>TRACT 16-A</u>			
			Royalty;	12.50%	12.50%	2.173913%
			Working Interest:			
			Tom Bolack;	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	
NM 011349-A	T. 29N, R. 5W Sec. 27: S/2 NW/4 & NE/4	240.00	<u>TRACT 16-B</u>			
			Royalty;	12.50%	12.50%	3.260870%
			Working Interest:			
			American Petrofina Company of Texas;	87.50%	87.50%	
			ORRI;	0.00%	0.00%	
			TOTAL	100.00%	100.00%	
NM 011349-B	T. 29N, R. 5W Sec. 27: SE/4	160.00	<u>TRACT 16-C</u>			
			Royalty;	12.50%	12.50%	2.173913%
			Working Interest:			
			El Paso Natural Gas Co.	82.50%	82.50%	
			ORRI;	5.00%	5.00%	
			TOTAL	100.00%	100.00%	

Effective July 1, 1975

## UNIT AREA EXPANSION SCHEDULE

## SCHEDULE XII

-4-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 17-B						
NM 011350-A	T. 29N, R. 5W Sec. 33: S/2 SW/4	80.00	Royalty; Working Interest: American Petrofina Company of Texas; ORRI;	12.50%	12.50%	1.0869577
			TOTAL	87.50% 0.00% 100.00%	87.50% 0.00% 100.00%	
TRACT 21						
NM 03188	T. 29N, R. 5W Sec. 20: S/2	320.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	4.347826%
			TOTAL	83.50% 4.00% 100.00%	83.50% 4.00% 100.00%	
TRACT 21-A						
NM 03188	T. 29N, R. 5W Sec. 29: SE/4	160.00	Royalty; Working Interest: El Paso Natural Gas Co.; ORRI;	12.50%	12.50%	2.173913%
			TOTAL	82.50% 5.00% 100.00%	82.50% 5.00% 100.00%	

Effective July 1, 1975

Form NWP 1506(8/77A)

## SCHEDULE XII

-5-

AL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
I 03188	<u>TRACT 21-B</u>					
	T. 29N., R. 5W.					
	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>	2.717391%
	TOTAL					
	<u>TRACT 21-C</u>					
I 03188	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>	5.978261%
	TOTAL					
	<u>TRACT 22</u>					
	T. 29N., R. 5 W.					
-289-3	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>	1.086957%
	TOTAL					
	<u>TRACT 22-A</u>					
	T. 29N., R. 5W.					
	-289-35	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>
TOTAL						

Effective July 1, 1975

SCHEDULE XII

-6-

NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
					PERCENTAGE		
89-36	T. 29N, R. 5W			<u>TRACT 22-C</u>			
	Sec. 32: W/2 SW/4,	280.00	Royalty;	12.50%	12.50%	3,804348%	
	NE/4, SE/4 NW/4		Working Interest:				
			El Paso Natural Gas Co.;	82.50%	82.50%		
			ORRI;	5.00%	5.00%		
			TOTAL	100.00%	100.00%		
89-31	T. 29N, R. 5W			<u>TRACT 22-D</u>			
	Sec. 32: NE/4 NW/4	40.00	Royalty;	12.50%	12.50%	0,543478%	
			Working Interest:				
			El Paso Natural Gas Co.;	82.50%	82.50%		
			ORRI;	5.00%	5.00%		
			TOTAL	100.00%	100.00%		
	T. 29N, R. 5W			<u>TRACT 24</u>			
	Sec. 18: NE/4 NW/4	40.00	Royalty;	12.50%	12.50%	0,543478%	
			Working Interest:				
			El Paso Natural Gas Co.;	83.50%	83.50%		
			ORRI;	4.00%	4.00%		
			TOTAL	100.00%	100.00%		
	T. 29N, R. 5W			<u>TRACT 24-A</u>			
	Sec. 7: Lot 4, Tract 121.04		Royalty;	12.50%	12.50%	1.644565%	
	#37 less north		Working Interest:				
	10.46 acres		El Paso Natural Gas Co.;	83.50%	83.50%		
			ORRI;	4.00%	4.00%		
			TOTAL	100.00%	100.00%		

SCHEDULE XII

-7-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 27						
Fee	T. 29N, R. 5W					
	Sec. 21: E/2 NE/4	159.00	Royalty;	12.50%	12.50%	2.160326%
	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%	
TRACT 27-A						
Fee	T. 29N, R. 5W					
	Sec. 22: one acre	1.00	Royalty;	12.50%	12.50%	0.013586%
	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%	
TRACT 29						
Fee	T. 29N, R. 5W					
	Sec. 28: N/2 SW/4 &	320.00	Royalty;	12.50%	12.50%	4.347826%
	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%	
TRACT 30						
Fee	T. 29N, R. 5W					
	Sec. 30: SW/4 SE/4	220.00	Royalty;	12.50%	12.50%	2.989130%
	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;	4.00%	4.00%	
			TOTAL	100.00%	100.00%	



SCHEDULE XII

$$\begin{array}{c} \vdots \\ \text{CO} \\ \vdots \end{array}$$

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Fee	T. 29N, R. 5W Sec. 31: W/2 SW/4 & 100.00 S/2 SW/4 NW/4					
			<u>TRACT 33</u>			
	Royalty;			12.50%	12.50%	1.358696%
	Working Interest:					
	El Paso Natural Gas Co.;			58.59%	58.59%	
	American Pet. Co. of Tex.;			21.88%	21.88%	
	ORRI;			7.03% *	7.03% *	
	TOTAL			100.00%	100.00%	
Fee	T. 29N, R. 5W Sec. 32: E/2 SW/4 & 160.00 W/2 SE/4					
			<u>TRACT 34</u>			
	Royalty;			12.50%	12.50%	2.173913%
	Working Interest:					
	Amoco Production Co.;			87.50%	87.50%	
	ORRI;			0.00%	0.00%	
	TOTAL			100.00%	100.00%	
Fee	T. 29N, R. 5W Sec. 33: W/2 NW/4 & 160.00 N/2 SW/4					
			<u>TRACT 35</u>			
	Royalty;			12.5000%	12.5000%	2.173913%
	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%	

Effective July 1, 1975

INIT AREA EXPANSION SCHEDULE

SCHEDULE XII

-9-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Fee	T. 29N, R. 5W					
	Sec. 21: SW/4 SE/4	80.00	Royalty;	12.50%	12.50%	1.086957%
	Sec. 28: NW/4 NE/4		Working Interest; Phillips Petroleum Co.; ORRI;	87.50% 0.00% 100.00%	87.50% 0.00% 100.00%	
	TOTAL					
TRACT 37						
Fee	T. 29N, R. 5W					
	Sec. 22: SW/4 less two acres out of NE/4 SW/4 & E/2 NW/4	318.00	Royalty;	12.50%	12.50%	4.320652%
	Sec. 27: N/2 NW/4		Working Interest; Phillips Petroleum Co.; ORRI;	87.50% 0.00% 100.00%	87.50% 0.00% 100.00%	
	TOTAL					
TRACT 38						
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;	12.50%	12.50%	0.027174%
			Working Interest; Phillips Petroleum Co.; ORRI;	87.50% 0.00% 100.00%	87.50% 0.00% 100.00%	
	TOTAL					

SCHEDULE XII

-10-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUA PARTICIPATIO
			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 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, 27, 31, 32: All

Total number of acres in Participating Area: 7,360.00  
 Total number of acres committed to Participating Area: 7,360.00

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

\* Borne by E1 Paso (Reference Tract 33)

Effective July 1, 1975

NORTHWEST PIPELINE CORPORATION

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

July 2, 1976

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. Joe Ramey  
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  
EIGHTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective April 1, 1975

APPLICATION FOR APPROVAL OF THE  
NINTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective May 1, 1975

APPLICATION FOR APPROVAL OF THE  
TENTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective June 1, 1975

APPLICATION FOR APPROVAL OF THE  
ELEVENTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective July 1, 1975

Gentlemen:

We have been asked by the United States Geological Survey to include in the Participating Areas of the above-captioned expansions lands brought into the Participating Area of the Dakota Formation which are located within, but not committed to, the San Juan 29-5 Unit. Therefore, we enclose corrections of the Eighth, Ninth, Tenth, and Eleventh Expansions of the Dakota Formation of the San Juan 29-5 Unit as follows:

Acting Area Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
July 2, 1976  
Page 2

EIGHTH EXPANDED PARTICIPATING AREA -- SCHEDULE IX

Pages 6, 7, and 8

NINTH EXPANDED PARTICIPATING AREA -- SCHEDULE X

Pages 6, 7, 8, and 9

TENTH EXPANDED PARTICIPATING AREA -- SCHEDULE XI

Pages 6, 7, 8, and 9

ELEVENTH EXPANDED PARTICIPATING AREA -- SCHEDULE XII

Pages 7, 8, 9, and 10

Please substitute these corrected pages into the appropriate schedules forwarded to you by our letter of February 26, 1976. Copies of this letter and the corrected schedule pages are being sent to the working interest owners shown on the attached sheet.

We apologize for any inconvenience this may have caused you.

Very truly yours,



Betty R. Burnett  
Supervisor of Contracts and Units

BRB:cak  
Enclosures  
cc: Working Interest Owners

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  
P. O. 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

**NORTHWEST PIPELINE CORPORATION**  
**UNIT AREA EXPANSION SCHEDULE**

**SCHEDULE IX**

-6-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
TRACT 28							
Fee	T. 29N, R. 5W Sec. 28: E/2 NE/4	80.00	Working Interest: Larry Mizel; Steven Mayer Mizel; Gary Dean Mizel; Vicki Mizel; Ann Fisher; Barbara Y. Witten; Robert C. Witten; Robert C. Witten, Trustee under that certain trust agreement dated April 1, 1975 between Saul A. Yager, Grantor & Robert C. Witten, Trustee;		11.25% 11.25% 11.25% 11.25% 10.00% 11.25% 11.25% 22.50%	00.00% 00.00% 00.00% 00.00% 00.00% 00.00% 00.00% 00.00%	0.000000%
			TOTAL		100.00%	00.00%	
TRACT 29							
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% 85.00% 2.50% 100.00%	5.479452%
			TOTAL		100.00%	100.00%	
TRACT 30							
Fee	T. 29N, R. 5W Sec. 30: SW/4 SE/4 220.00 Sec. 31: SE/4 NW/4 & N/2 SW/4 NW/4 & W/2 NE/4 & SE/4 NE/4		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%
			TOTAL		100.00%	100.00%	

NIT AREA EXPANSION SCHEDULE

SCHEDULE IX

-7-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
Fee	<u>T. 29N, R. 5W</u> 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; <u>TOTAL</u>		12.50% 58.59% 21.88% 7.03% * 100.00%	12.50% 58.59% 21.88% 7.03% * 100.00%	1.712329%
	<u>TRACT 33</u>						
Fee	<u>T. 29N, R. 5W</u> Sec. 32: E/2 SW/4 & W/2 SE/4	160.00	Royalty; Working Interest: Amoco Production Co.; ORRI; <u>TOTAL</u>		12.50% 87.50% 0.00% 100.00%	12.50% 87.50% 0.00% 100.00%	2.739726%
	<u>TRACT 34</u>						
Fee	<u>T. 29N, R. 5W</u> 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; <u>TOTAL</u> <u>TRACT 37</u>		12.5000% 20.6250% 13.7500% 13.7500% 13.7500% 20.6250%  <u>5.0000%</u> 100.0000%	12.5000% 20.6250% 13.7500% 13.7500% 13.7500% 20.6250%  <u>5.0000%</u> 100.0000%	2.739726%
Fee	<u>T. 29N, R. 5W</u> Sec. 28: NW/4 NE/4	40.00	Royalty; Working Interest: Phillips Petroleum Co.; ORRI; <u>TOTAL</u>		12.50% 87.50% 0.00% 100.00%	12.50% 87.50% 0.00% 100.00%	0.684932%
	<u>TRACT 37</u>						

Corrected Page 7

Effective April 1, 1975



NORTHWEST PIPELINE CORPORATION  
UNIT AREA EXPANSION SCHEDULE

SCHEDULE IX

-8-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT 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  
 Section 29: E/2  
 Section 30: W/2 & SE/4  
 Section 33: W/2  
 Sections 18, 19, 20, 28, 31, 32: All

Total number of acres in Participating Area: 5,920.00 acres  
 Total number of acres committed to Participating Area: 5,840.00 acres  
 Total number of acres not committed to Participating Area: 80.00 acres

Borne by El Paso (Reference Tract 33)

Effective April 1, 1975  
 Corrected Page 8

NIT AREA EXPANSION SCHEDULE

SCHEDULE X

-6-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION		
Fee	T. 29N, R. 5W Sec. 21: E/2 NE/4	80.00	TRACT 27						
			Royalty;	12.50%	12.50%	1.315789%			
			Working Interest;						
			Phillips Petroleum Co.;	83.50%	83.50%				
			ORRI;	4.00%	4.00%				
			TOTAL	100.00%	100.00%				
			TRACT 28						
			Working Interest;			0.000000%			
			Larry Mizel;	11.25%	00.00%				
			Steven Mayer Mizel;	11.25%	00.00%				
Fee	T. 29N, R. 5W Sec. 21: SE/4 SE/4 Sec. 28: E/2 NE/4	120.00	Gary Dean Mizel;	11.25%	00.00%				
			Vicki Mizel;	11.25%	00.00%				
			Ann Fisher;	10.00%	00.00%				
			Barbara Y. Witten;	11.25%	00.00%				
			Robert C. Witten;	11.25%	00.00%				
			Robert C. Witten;	22.50%	00.00%				
			Trustee under that certain trust agreement dated April 1, 1975 between Saul A. Yager, Grantor & Robert C. Witten, Trustee						
			TOTAL	100.00%	00.00%				
			Fee	T. 29N, R. 5W Sec. 21: NE/4 SE/4	40.00	Working Interest;			
						Sam Lack;	100.00%	00.00%	0.000000%

NORTHWEST PIPELINE CORPORATION  
UNIT AREA EXPANSION SCHEDULE

SCHEDULE X

-7-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUA PARTICIPATIO
TRACT 29							
Fee	T. 29N, R. 5W						
	Sec. 28: N/2 SW/4 & SE/4 NW/4 & SW/4 NE/4	320.00	Royalty; Working Interest; Phillips Petroleum Co.; ORRI;		12.50% 85.00% 2.50%	12.50% 85.00% 2.50%	5.263158%
	TOTAL				100.00%	100.00%	
TRACT 30							
Fee	T. 29N, R. 5W						
	Sec. 30: SW/4 SE/4	220.00	Royalty;		12.50%	12.50%	3.618421%
	Sec. 31: SE/4 NW/4 & N/2 SW/4 NW/4 & W/2 NE/4 & SE/4 NE/4		Working Interest; El Paso Natural Gas Co.; ORRI;		83.50% 4.00%	83.50% 4.00%	
	TOTAL				100.00%	100.00%	
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% *	12.50% 58.59% 21.88% 7.03% *	1.644737%
	TOTAL				100.00%	100.00%	

NORTHWEST PRILINE CORPORATION  
UNIT AREA EXPANSION SCHEDULE

SCHEDULE X

-8-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
Fee	<u>T. 29N, R. 5W</u>			<u>TRACT 34</u>			
	Sec. 32: E/2 SW/4 & W/2 SE/4	160.00	Royalty; Working Interest; Amoco Production Co.; ORRI;		12.50% 87.50% 0.00% 100.00%	12.50% 87.50% 0.00% 100.00%	2.631579%
			TOTAL	<u>TRACT 35</u>			
Fee	<u>T. 29N, R. 5W</u>						
	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;		12.5000% 20.6250% 13.7500% 13.7500% 13.7500% 20.6250% 5.0000% 100.0000%	12.5000% 20.6250% 13.7500% 13.7500% 13.7500% 20.6250% 5.0000% 100.0000%	2.631579%
			TOTAL	<u>TRACT 37</u>			
Fee	<u>T. 29N, R. 5W</u>						
	Sec. 21: SW/4 SE/4	80.00	Royalty; Working Interest; Phillips Petroleum Co.; ORRI;		12.50% 87.50% 0.00% 100.00%	12.50% 87.50% 0.00% 100.00%	1.315789%
	Sec. 28: NW/4 NE/4						
			TOTAL				

ORTHWEST PIPELINE CORPORATION  
NIT AREA EXPANSION SCHEDULE

SCHEDULE X

-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 29: E/2

Section 30: W/2 & SE/4

Section 33: W/2

Sections 18, 19, 20, 21, 28, 31, 32: All

Total number of acres in Participating Area:

Total number of acres committed to Participating Area: 6,240.00 acres

Total number of acres not committed to Participating Area: 6,080.00 acres

160.00 acres

\* Borne by El Paso (Reference Tract 33)

Effective May 1, 1975

Corrected Page 9

**NORTHWEST PIPELINE CORPORATION**  
**UNIT AREA EXPANSION SCHEDULE**

SCHEDULE XI

-6-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE COMMITTED	PRESENT ACTUA PARTICIPATIO
TRACT 27						
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%	
TRACT 27-A						
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%	
TRACT 28						
Fee	T. 29N, R. 5W					
	Sec. 21: SE/4 SE/4	120.00	Working Interest;	11.25%	00.00%	0.000000%
	Sec. 28: E/2 NE/4		Larry Mizel;	11.25%	00.00%	
			Steven Mayer Mizel;	11.25%	00.00%	
			Gary Dean Mizel;	11.25%	00.00%	
			Vicki Mizel;	11.25%	00.00%	
			Ann Fisher;	10.00%	00.00%	
			Barbara Y. Witten;	11.25%	00.00%	
			Robert C. Witten;	11.25%	00.00%	
			Robert C. Witten;	22.50%	00.00%	
			Trustee under that certain			
			trust agreement dated April 1,			
			1975 between Saul A. Yager,			
			Grantor & Robert C. Witten,			
			Trustee			
			TOTAL	100.00%	00.00%	

**NORTHWEST PIPELINE CORPORATION**  
**UNIT AREA EXPANSION SCHEDULE**

**SCHEDULE XI**

-7-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTI PARTICIPATI
			OWNERSHIP	PERCENTAGE		
Fee	<u>T. 29N, R. 5W</u> Sec. 21: NE/4 SE/4	40.00	Working Interest; Sam Lack;	100.00%	00.00%	0.000000%
			<u>TRACT 28</u>			
Fee	<u>T. 29N, R. 5W</u> Sec. 28: N/2 SW/4 & SE/4 & SW/4 NE/4	320.00	Royalty; Working Interest; Phillips Petroleum Co.; ORRI;	12.50% 85.00% 2.50% <u>100.00%</u>	12.50% 85.00% 2.50% <u>100.00%</u>	5.000000%
			<u>TRACT 30</u>			
Fee	<u>T. 29N, R. 5W</u> 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% <u>100.00%</u>	12.50% 83.50% 4.00% <u>100.00%</u>	3.437500%
			<u>TRACT 33</u>			
Fee	<u>T. 29N, R. 5W</u> 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% <u>100.00%</u>	12.50% 58.59% 21.88% 7.03% <u>100.00%</u>	1.562500%
			<u>TRACT 34</u>			
Fee	<u>T. 29N, R. 5W</u> Sec. 32: E/2 SW/4 & W/2 SE/4	160.00	Royalty; Working Interest; Amoco Production Co.; ORRI;	12.50% 87.50% 0.00% <u>100.00%</u>	12.50% 87.50% 0.00% <u>100.00%</u>	2.500000%
			<u>TOTAL</u>			

**NORTHWEST PIPELINE CORPORATION**  
UNIT AREA EXPANSION SCHEDULE

SCHEDULE XI

-8-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
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;	12.5000%	12.5000%	2.500000%
	<u>TRACT 35</u>					
				12.5000%	12.5000%	
				20.6250%	20.6250%	
				13.7500%	13.7500%	
				13.7500%	13.7500%	
				13.7500%	13.7500%	
				20.6250%	20.6250%	
				5.0000%	5.0000%	
			TOTAL	100.0000%	100.0000%	
Fee	T. 29N, R. 5W Sec. 21: SW/4 SE/4 Sec. 28: NW/4 NE/4	80.00	Royalty; Working Interest: Phillips Petroleum Co.; ORRI;	12.50%	12.50%	1.250000%
	<u>TRACT 37</u>					
				12.50%	12.50%	
				87.50%	87.50%	
				0.00%	0.00%	
			TOTAL	100.00%	100.00%	
	<u>TRACT 38</u>					
Fee	T. 29N, R. 5W Sec. 22: SW/4 less two acres out of NE/4 SW/4 & E/2 NW/4	238.00	Royalty; Working Interest: Phillips Petroleum Co.; ORRI;	12.50%	12.50%	3.718750%
				12.50%	12.50%	
				87.50%	87.50%	
				0.00%	0.00%	
			TOTAL	100.00%	100.00%	
	<u>TRACT 38-B</u>					
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;	12.50%	12.50%	0.031250%
				12.50%	12.50%	
				87.50%	87.50%	
				0.00%	0.00%	
			TOTAL	100.00%	100.00%	



**NORTHWEST PIPELINE CORPORATION**  
**UNIT AREA EXPANSION SCHEDULE**

SCHEDULE XI

-9-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE COMMITTED	PERCENTAGE PRESENT AC PARTICIPA
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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 22: W/2  
 Section 29: E/2  
 Section 30: W/2 & SE/4  
 Section 33: W/2  
 Sections 18, 19, 20, 21, 28, 31, 32: All

Total number of acres in Participating Area: 6,560.00 acres  
 Total number of acres committed to Participating Area: 6,400.00 acres  
 Total number of acres not committed to Participating Area: 160.00 acres

\* Borne by El Paso (Reference Tract 33)

Effective June 1, 1975  
 Corrected Page 9

**NORTHWEST PIPELINE CORPORATION**  
UNIT AREA EXPANSION SCHEDULE

SCHEDULE XII

-7-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 27</u>							
Fee	T. 29N, R. 5W Sec. 21: E/2 NE/4 Sec. 22: W/2 NW/4 (Less one acre)	159.00	Royalty; Working Interest; Phillips Petroleum Co.; ORRI;		12.50%  83.50% 4.00%	12.50%  83.50% 4.00%	2.160326%
			TOTAL		100.00%	100.00%	
<u>TRACT 27-A</u>							
Fee	T. 29N, R. 5W Sec. 22: One acre out of SW corner of W/2 NW/4	1.00	Royalty; Working Interest; Phillips Petroleum Co.; ORRI;		12.50%  87.50% 0.00%	12.50%  87.50% 0.00%	0.013586%
			TOTAL		100.00%	100.00%	
<u>TRACT 28</u>							
Fee	T. 29N, R. 5 W Sec. 21: SE/4 SE/4 Sec. 28: E/2 NE/4	120.00	Working Interest; Larry Mizel; Steven Mayer Mizel; Gary Dean Mizel; Vicki Mizel; Ann Fisher; Barbara Y. Witten; Robert C. Witten; Robert C. Witten;		11.25% 11.25% 11.25% 11.25% 10.00% 11.25% 11.25% 22.50%	00.00% 00.00% 00.00% 00.00% 00.00% 00.00% 00.00% 00.00%	0.000000%
			Trustee under that certain trust agreement dated April 1, 1975 between Saul A. Yager, Grantor & Robert C. Witten, Trustee				
			TOTAL		100.00%	00.00%	

**NORTHWEST PIPELINE CORPORATION**  
UNIT AREA EXPANSION SCHEDULE

SCHEDULE XII

-8-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACT PARTICIPAT
Fee	<u>T. 29N, R. 5W</u> Sec. 21: NE/4 SE/4	40.00	Working Interest; Sam Lack;	<u>TRACT 28</u>	100.00%	00.00%	0.000000%
Fee	<u>T. 29N, R. 5W</u> 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;	<u>TRACT 29</u>	12.50% 85.00% 2.50%	12.50% 85.00% 2.50%	4.347826%
Fee	<u>T. 29N, R. 5W</u> 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;	<u>TRACT 30</u>	12.50% 83.50% 4.00%	12.50% 83.50% 4.00%	2.989130%
Fee	<u>T. 29N, R. 5W</u> 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;	<u>TRACT 33</u>	12.50% 58.59% 21.88% 7.03% *	12.50% 58.59% 21.88% 7.03% *	1.358696%
Fee	<u>T. 29N, R. 5W</u> Sec. 32: E/2 SW/4 & W/2 SE/4	160.00	Royalty; Working Interest; Amoco Production Co.; ORRI;	<u>TRACT 34</u>	12.50% 87.50% 0.00%	12.50% 87.50% 0.00%	2.173913%
			TOTAL		100.00%	100.00%	

## UNIT AREA EXPANSION SCHEDULE

## SCHEDULE XII

-9-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
Fee	<u>T. 29N, R. 5W</u>					
	Sec. 33: W/2 NW/4 & N/2 SW/4	160.00	Royalty; Working Interest:	12.5000%	12.5000%	2.173913%
			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			
Fee	<u>T. 29N, R. 5W</u>		ORRI;	5.0000%	5.0000%	
	Sec. 21: SW/4 SE/4	80.00	TOTAL	100.0000%	100.0000%	1.086957%
	Sec. 28: NW/4 NE/4		<u>TRACT 37</u>			
			Royalty;	12.50%	12.50%	
			Working Interest:	87.50%	87.50%	
			Phillips Petroleum Co.;	0.00%	0.00%	
			ORRI;	100.00%	100.00%	
			TOTAL			
			<u>TRACT 38</u>			
	<u>T. 29N, R. 5W</u>		Royalty;	12.50%	12.50%	4.320652%
Fee	Sec. 22: SW/4 less two acres out of NE/4 SW/4 & E/2 NW/4	318.00	Working Interest:	87.50%	87.50%	
	Sec. 27: N/2 NW/4		Phillips Petroleum Co.;	0.00%	0.00%	
			ORRI;	100.00%	100.00%	
			TOTAL			
			<u>TRACT 38-B</u>			
	Beginning at NW corner of N/2 SE/4 of Sec. 22, T29N, R5W, thence 420' South, thence 210' West, thence 420' North, Thence 210' East to place of beginning		Royalty;	12.50%	12.50%	0.027174%
			Working Interest:	87.50%	87.50%	
			Phillips Petroleum Co.;	0.00%	0.00%	
			ORRI;	100.00%	100.00%	
			TOTAL			

NORTHWEST PACIFIC CORPORATION  
UNIT AREA EXPANSION SCHEDULE

SCHEDULE XII

-10-

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE COMMITTED	PRESENT ACTI PARTICIPAT
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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 22: W/2  
 Section 26: W/2  
 Section 29: E/2  
 Section 30: W/2 & SE/4  
 Section 33: W/2  
 Sections 18, 19, 20, 21, 27, 28, 31, 32: All

Total number of acres in Participating Area: 7,520.00 acres  
 Total number of acres committed to Participating Area: 7,360.00 acres  
 Total number of acres not committed to Participating Area: 160.00 acres

\* Borne by El Paso (Reference Tract 33)

Effective July 1, 1975  
 Corrected Page 10



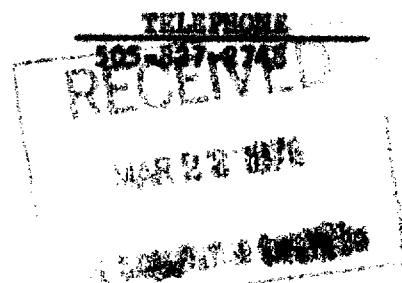
PHIL R. LUCERO  
COMMISSIONER

# State of New Mexico



## Commissioner of Public Lands

March 19, 1976



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

Northwest Pipeline Corporation  
One Park Central  
Suite 1487  
Denver, Colorado 80202

Re: San Juan 29-5 Unit  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
EIGHTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective April 1, 1975

APPLICATION FOR APPROVAL OF THE  
NINTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective May 1, 1975

APPLICATION FOR APPROVAL OF THE  
TENTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective June 1, 1975

APPLICATION FOR APPROVAL OF THE  
ELEVENTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective July 1, 1975

Gentlemen:

The Commissioner of Public Lands has this date approved the Eighth, Ninth, Tenth and Eleventh expanded participating areas 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 retaining two copies for our files and returning one approved copy to you.

Northwest Pipeline Corporation  
March 19, 1976  
Page 2.

Please advise this office when the USGS and the Oil Conservation Commission have approved these participating areas.

Very truly yours,

PHIL R. LUCERO  
COMMISSIONER OF PUBLIC LANDS

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

PRL/RDG/s

encls.

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




# OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO  
P. O. BOX 2088 - SANTA FE  
87501

DIRECTOR  
JOE D. RAMEY

LAND COMMISSIONER  
PHIL R. LUCERO

  
STATE GEOLOGIST  
EMERY C. ARNOLD

March 18, 1976

Northwest Pipeline Corporation  
One Park Central, Suite 1487  
Denver, Colorado 80202

Attention: Mr. John W. Shepardson

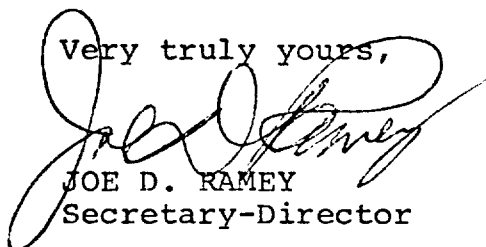
Re: Eighth, Ninth, Tenth, and  
Eleventh Expansions, Dakota  
Participating Area, San Juan  
29-5 Unit, Rio Arriba  
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Eighth, Ninth, Tenth and Eleventh 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.

Two approved copies of the expansions are returned herewith.

Very truly yours,

  
JOE D. RAMEY  
Secretary-Director

JDR/JEK/og

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

Commissioner of Public Lands  
Santa Fe, New Mexico



Northwest Pipeline Corporation



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

February 26, 1976

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. Joe Ramsey  
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  
EIGHTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective April 1, 1975

APPLICATION FOR APPROVAL OF THE  
NINTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective May 1, 1975

APPLICATION FOR APPROVAL OF THE  
TENTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective June 1, 1975

APPLICATION FOR APPROVAL OF THE  
ELEVENTH EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective July 1, 1975

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,

Northwest Pipeline Corporation, as Unit Operator, hereby respectfully requests approval of the Eighth, Ninth, Tenth, and Eleventh Expanded Participating Areas for the Dakota formation, to wit:

EIGHTH EXPANDED PARTICIPATING AREA - Effective April 1, 1975

<u>Description of Lands</u>	<u>Acres</u>
Township 29 North, Range 5 West, N.M.P.M.	
Section 28: SE/4 & W/2 NE/4	240.00

The E/2 NE/4 of Section 28 is not committed to the Unit, but was communitized with the balance of the E/2 of Section 28 for the drilling of this well.

This proposed Eighth Revision of the Total Participating Area for the Dakota formation is predicated upon the determination by Northwest Pipeline Corporation, as Unit Operator, that the following San Juan 29-5 Unit 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 No. 70 well is located 1760' from the North Line and 960' from the East Line, Section 28, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on March 19, 1975, and completed on April 6, 1975, in the Dakota formation at a plug back total depth of 8043'. The Dakota formation was perforated at 7912'-8008'. These perforations were treated with 7 1/2% hydrochloric acid, followed by a sand-water fracturing. The well was shut-in for seven (7) days with a SIPT of 2508 psig and a SIPC of 2501 psig. On April 14, 1975, the well was tested and after flowing for three (3) hours through a 3/4-inch variable choke on the 2 3/8-inch tubing, the well gauged 2941 MCFD with a calculated AOF of 3226 MCFD.

NINTH EXPANDED PARTICIPATING AREA - Effective May 1, 1975

<u>Description of Lands</u>	<u>Acres</u>
Township 29 North, Range 5 West, N.M.P.M.	240.00
Section 21: NE/4 & W/2 SE/4	

The E/2 SE/4 of Section 21 is not committed to the Unit, but was communitized with the balance of the E/2 of Section 21 for the drilling of this well.

This proposed Ninth Revision of the Total Participating Area for the Dakota formation is predicated upon the determination by Northwest Pipeline Corporation, as Unit Operator, that the following San Juan 29-5 Unit 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 No. 69 well is located 1475' from the South Line and 790' from the East Line, Section 21, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on April 8, 1975, and completed on April 25, 1975, in the Dakota formation at a plug back total depth of 8089'. The Dakota formation was perforated at 7992'-8084'. These perforations were treated with 7 1/2% hydrochloric acid followed by a sand-water fracturing. The well was shut-in for seven (7) days with a SIPT of 2631 psig and a SIPC of 2631 psig. The well was tested on May 2, 1975, and after flowing for three (3) hours through a 3/4-inch variable choke on the 2 3/8-inch tubing, the well gauged 3801 MCFD with a calculated AOF of 4348 MCFD.

TENTH EXPANDED PARTICIPATING AREA - Effective June 1, 1975

<u>Description of Lands</u>	<u>Acres</u>
<u>Township 29 North, Range 5 West, N.M.P.M.</u>	
Section 22: W/2	320.00

This proposed Tenth Revision of the Total Participating Area for the Dakota formation is predicated upon the determination by Northwest Pipeline Corporation, as Unit Operator, that the following San Juan 29-5 Unit 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 No. 75 well is located 955' from the South Line and 870' from the West Line, Section 22, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on May 9, 1975, and completed on May 24, 1975, in the Dakota formation at a plug back total depth of 8060'. The Dakota formation was perforated at 7970'-8050'. These perforations were treated with 7 1/2% hydrochloric

acid, followed by a sand-water fracturing. The well was shut-in for seven (7) days with a SIPT of 2712 psig and a SIPC of 2711 psig. On June 3, 1975, the well was tested and after flowing for three (3) hours through a 3/4-inch variable choke on the 2 3/8-inch tubing, the well gauged 4191 MCFD with a calculated AOF of 4741 MCFD.

ELEVENTH EXPANDED PARTICIPATING AREA - Effective July 1, 1975

<u>Description of Lands</u>	<u>Acres</u>
Township 29 North, Range 5 West, N.M.P.M. Section 26: W/2	320.00

This proposed Eleventh Revision of the Total Participating Area for the Dakota formation is predicated upon the determination by Northwest Pipeline Corporation, as Unit Operator, that the following San Juan 29-5 Unit 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 No. 77 well is located 1450' from the South Line and 1100' from the West Line, Section 26, Township 29 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on June 15, 1975, and completed on July 2, 1975, in the Dakota formation at a plug back total depth of 8535'. The Dakota formation was perforated at 8448'-8514'. These perforations were treated with 7 1/2% hydrochloric acid, followed by a sand-water fracturing. The well was shut-in for seven (7) days with a SIPT of 2017 psig and a SIPC of 2591 psig. On July 18, 1975, the well was tested and after flowing for three (3) hours through a 3/4-inch variable choke on the 2 3/8-inch tubing, the well gauged 3652 MCFD with a calculated AOF of 4857 MCFD.

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 Eighth, Ninth, Tenth, and Eleventh Expansions of the Participating Area of the Dakota formation within the San Juan 29-5 Unit.

Acting Area Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
February 26, 1976  
Page 5

EXHIBIT "B"

Geological Report on the Eighth, Ninth, Tenth, and Eleventh Expansions of the Participating Area of the Dakota formation within the San Juan 29-5 Unit.

EXHIBIT "C"

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

EXHIBIT "D"

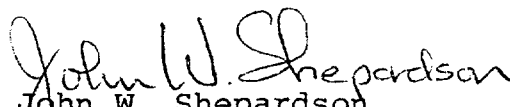
Schedule of San Juan 29-5 Unit Dakota production.

Attached hereto are Schedules IX, X, XI, and XII showing the proposed Eighth, Ninth, Tenth, and Eleventh 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 Eighth, Ninth, Tenth, and Eleventh 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.

Very truly yours,

  
John W. Shepardson  
Land Manager

BRB:cak  
Enclosures  
cc: Working Interest Owners

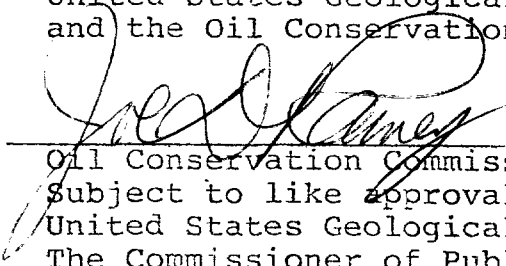
APPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

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

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

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

APPROVED: \_\_\_\_\_ DATE: March 18, 1976

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

The foregoing approvals are for the San Juan 29-5 Unit  
#14-08-001-437, Rio Arriba County, New Mexico, Eighth,  
Ninth, Tenth, and Eleventh Expanded Participating Areas.

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, PA 19010

EXHIBIT "B"

SAN JUAN 29-5 UNIT  
Rio Arriba County, New Mexico

Geologic Report  
Dakota Formation

PROPOSED EIGHTH, NINTH, TENTH & ELEVENTH EXPANSIONS  
OF THE DAKOTA PARTICIPATING AREA

NORTHWEST PIPELINE CORPORATION

BY: R. W. Keener  
R. W. Keener, Director  
Production Division



## EXHIBIT "B"

### SAN JUAN 29-5 UNIT Rio Arriba County, New Mexico

#### Geologic Report Dakota Formation

#### PROPOSED EIGHTH, NINTH, TENTH & ELEVENTH EXPANSIONS OF THE DAKOTA PARTICIPATING AREA

#### GENERAL INFORMATION

The San Juan 29-5 Unit is located in the east central portion of the San Juan Basin, Rio Arriba County, New Mexico. The original unit area consisted of all of Township 29 North, Range 5 West, which contains 22,521.54 acres. All or parts of Sections 1, 2, 3, 4, 10, 11, 12, 13, 14, 15, 23 and 24, totaling 5,168.62 acres have been eliminated from the unit. The present area of the San Juan 29-5 Unit is comprised of 17,352.92 acres.

Within the non-eliminated portion of Township 29 North, Range 5 West, the "Dakota Producing Interval" has been tested in twenty-seven (27) locations, resulting in three (3) plugged and abandoned wells, three (3) non-commercial wells; two of which have never produced, seventeen (17) wells are currently producing and twenty-one (21) are currently considered commercial.

Included in this report are: Drilling block data for each newly drilled well, the geological maps entitled Exhibit "C", (Figure No. 1: Structural Map, Figure No. 2: Isopachous Map), and production data for all wells as Exhibit "D". Structural contour map shows the possible subsurface structure of the "Dakota Interval" using mean sea level as the datum plane, the top of the Graneros as the mapping horizon and contour interval of 50 feet. Present structural control indicates that "Dakota Interval" to be

dipping gently to the northeast. It is believed that the stratigraphic condition controls the occurrence of hydrocarbon within the San Juan 29-5 Unit "Dakota Producing Interval".

The isopachous map is drawn with a contour interval of ten (10) feet, showing the number of feet of net reservoir sand of Dakota formation in the unit area and adjacent areas.

Exhibit "D" is the production data for all 29-5 Unit Dakota wells. This table shows by wells the Absolute Open Flow potential, date of the first delivery into the gathering system, cumulative gas production to 1/1/75, production by months for 11 months in 1975, and cumulative production to 12/1/75. Wells within the Dakota Participating Area have produced a cumulative total of 7,578,167 MCF as of 12/1/75.

PROPOSED EXPANSIONS OF THE  
DAKOTA PARTICIPATING AREA

Proposed Eighth Expansion

Effective Date: April 1, 1975

Proposed Expanded Acreage: Committed acreage in the E/2  
of Section 28, T29N, R5W,  
Rio Arriba County, New Mexico.

Proposed Ninth Expansion

Effective Date: May 1, 1975

Proposed Expanded Acreage: Committed acreage in the E/2  
of Section 21, T29N, R5W,  
Rio Arriba County, New Mexico.

Proposed Tenth Expansion

Effective Date: June 1, 1975

Proposed Expanded Acreage: Committed acreage in the W/2  
of Section 22, T29N, R5W,  
Rio Arriba County, New Mexico.

Proposed Eleventh Expansion

Effective Date: July 1, 1975

Proposed Expanded Acreage: Committed acreage in the W/2  
Section 26, T29N, R5W,  
Rio Arriba County, New Mexico.

All pertinent data is attached hereto as a part of  
this report.

The proposed expansions of the Dakota Participating Area are based upon electrical log interpretation, initial well test results and ten to eleven months of actual production from the San Juan 29-5 Unit wells. From this data, it is inferred that the proposed expanded acreage is capable of producing unitized substances in commercial quantities from the Dakota formation and the committed acreage should be admitted to the participating area.