

NORTHWEST PIPELINE CORPORATION

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

October 31, 1978

Mr. James A. Gillham
U. S. Geological Survey
P. O. Drawer 1857
Roswell, New Mexico 88201

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

Mr. Joe Ramey
State of New Mexico Energy
and Minerals Department
P. O. Box 2088
Santa Fe, New Mexico 87501

No. 417

Gentlemen:

Re: San Juan 30-5 Unit
THIRTIETH EXPANDED
PARTICIPATING AREA
Mesaverde Formation
Effective December 1, 1977

By letter dated February 8, 1978, we notified you of the completion of an additional Mesaverde well (No. 62) in the captioned unit and the Thirtieth Expansion of the Mesaverde Participating Area. This expansion was created by virtue of Well No. 60 in the E/2 Section 5-30N-5W. Our letter erroneously reflected Well No. 62 rather than Well No. 60. Corrected Page 2 of our letter of February 8, is enclosed for substitution in your file copy.

Please accept our apology for any inconvenience this has caused.

Yours very truly,

Betty Burnett
Betty R. Burnett

Supervisor of Contracts and Units

BRB:vh
Enclosure

cc: Working Interest Owners w/encl.

U.S. Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
February 8, 1978
page two

1977, and completed on October 13, 1977, in the Mesaverde formation at a plug back total depth of 5724'. The Mesaverde formation was perforated with one hole at each of the following depths: 5304', 5326', 5330', 5364', 5368', 5372', 5544', 5552', 5574', 5578', 5582', 5586', 5590', 5594', 5598', 5602', 5690'. These perforations were treated with 7-1/2% hydrochloric acid, followed by a sand-water fracturing. The well was shut-in October 15, 1977 for 9 days with a SIPT of 1178 psig and a SIPC of 1179 psig. On October 25, 1977, 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 3445 MCFD with a calculated AOF of 5436 MCFD.

This well was drilled on an intervening drilling block in the E/2 Section 21, which was created by completion of Well No. 56 located in the W/2 Section 22-30N-5W.

THIRTIETH EXPANDED PARTICIPATING AREA --- Effective December 1, 1977

<u>Drilling Block</u>	<u>Acres</u>	<u>Well Name & No.</u>
Lots 5,6, S/2 NE/4, SE/4 Sec 5-30N-5W	319.69	San Juan 30-5 #60

Pertinent well data is as follows:

The San Juan 30-5 Unit No. 60 Well is located 1460' from the North Line and 950' from the East Line, Section 5, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on October 15, 1977, and completed on November 1, 1977, in the Mesaverde formation at a plug back total depth of 5832'. The Mesaverde formation was perforated with one hole at each of the following depths: 5484', 5488', 5492', 5520', 5524', 5616', 5620', 5624', 5642', 5646', 5710', 5714', 5718', 5734', 5738', 5744', 5748', 5766', 5770', 5774', 5778', 5782'. These perforations were treated with 7-1/2% hydrochloric acid, followed by a sand-water fracturing. The well was shut-in October 25, 1977 for 7 days with a SIPT of 1125 psig and a SIPC of 1125 psig. On November 1, 1977, 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 3800 MCFD with a calculated AOF of 6298 MCFD.

Attached are Schedule XXXI and ownership map showing the Thirtieth Expanded Participating Area for the Mesaverde formation of the San Juan 30-5 Unit Area. The Schedule describes the Expanded

U.S. Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
February 8, 1978
page two

1977, and completed on October 13, 1977, in the Mesaverde formation at a plug back total depth of 5724'. The Mesaverde formation was perforated with one hole at each of the following depths: 5304', 5326', 5330', 5364', 5368', 5372', 5544', 5552', 5574', 5578', 5582', 5586', 5590', 5594', 5598', 5602', 5690'. These perforations were treated with 7-1/2% hydrochloric acid, followed by a sand-water fracturing. The well was shut-in October 15, 1977 for 9 days with a SIPT of 1178 psig and a SIPC of 1179 psig. On October 25, 1977, 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 3445 MCFD with a calculated AOF of 5436 MCFD.

This well was drilled on an intervening drilling block in the E/2 Section 21, which was created by completion of Well No. 56 located in the W/2 Section 22-30N-5W.

THIRTIETH EXPANDED PARTICIPATING AREA --- Effective December 1, 1977

<u>Drilling Block</u>	<u>Acres</u>	<u>Well Name & No.</u>
Lots 5,6, S/2 NE/4, SE/4 Sec 5-30N-5W	319.69	San Juan 30-5 #60

Pertinent well data is as follows:

The San Juan 30-5 Unit No. 60 Well is located 1460' from the North Line and 950' from the East Line, Section 5, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on October 15, 1977, and completed on November 1, 1977, in the Mesaverde formation at a plug back total depth of 5832'. The Mesaverde formation was perforated with one hole at each of the following depths: 5484', 5488', 5492', 5520', 5524', 5616', 5620', 5624', 5642', 5646', 5710', 5714', 5718', 5734', 5738', 5744', 5748', 5766', 5770', 5774', 5778', 5782'. These perforations were treated with 7-1/2% hydrochloric acid, followed by a sand-water fracturing. The well was shut-in October 25, 1977 for 7 days with a SIPT of 1125 psig and a SIPC of 1125 psig. On November 1, 1977, 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 3800 MCFD with a calculated AOF of 6298 MCFD.

Attached are Schedule XXXI and ownership map showing the Thirtieth Expanded Participating Area for the Mesaverde formation of the San Juan 30-5 Unit Area. The Schedule describes the Expanded

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

February 24, 1978

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

Attention: Betty R. Burnett

**Re: Case No. 417
San Juan 30-5 Unit
Notice of Completion of
Additional Well, Thirtieth
Expanded Participating Area
Mesaverde Formation**

Gentlemen:

We hereby acknowledge receipt of the Notice of Completion of Additional Wells in the Mesaverde Formation in the Thirtieth Expanded Participating Area of the San Juan 30-5 Unit, Rio Arriba County, New Mexico.

Very truly yours,

**JOE D. RAMEY
Secretary-Director**

JDR/fd

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

NORTHWEST PIPELINE CORPORATION

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

RECEIVED
FEB 13 1978

February 8, 1978

Mr. Carl C. Traywick
Assistant 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 30-5 Unit #14-08-001-346
Rio Arriba County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL
WELL, MESAVERDE FORMATION.

THIRTIETH EXPANDED PARTICIPATING AREA
Mesaverde Formation
Effective December 1, 1977

Gentlemen:

Pursuant to Section 11(a) of the San Juan 30-5 Unit Agreement, Northwest Pipeline Corporation, as Unit operator, has determined that the following wells capable of producing unitized substances in paying quantities from the Mesaverde formation have been completed upon acreage committed to the Unit.

COMPLETION OF ADDITIONAL WELL:

<u>Drilling Block</u>	<u>Acres</u>	<u>Well Name & No.</u>
E/2 Section 21-30N-5W	320	San Juan 30-5 #62

Pertinent well data is as follows:

The San Juan Unit No. 62 Well is located 1740' from the North Line and 1840' from the East Line, Section 21, Township 30 North, Range 6 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on October 4,

U.S. Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
February 8, 1978
page two

1977, and completed on October 13, 1977, in the Mesaverde formation at a plug back total depth of 5724'. The Mesaverde formation was perforated with one hole at each of the following depths: 5304', 5326', 5330', 5364', 5368', 5372', 5544', 5552', 5574', 5578', 5582', 5586', 5590', 5594', 5598', 5602', 5690'. These perforations were treated with 7-1/2% hydrochloric acid, followed by a sand-water fracturing. The well was shut-in October 15, 1977 for 9 days with a SIPT of 1178 psig and a SIPC of 1179 psig. On October 25, 1977, 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 3445 MCFD with a calculated AOF of 5436 MCFD.

This well was drilled on an intervening drilling block in the E/2 Section 21, which was created by completion of Well No. 56 located in the W/2 Section 22-30N-5W.

THIRTIETH EXPANDED PARTICIPATING AREA --- Effective December 1, 1977

<u>Drilling Block</u>	<u>Acres</u>	<u>Well Name & No.</u>
Lots 5,6, S/2 NE/4, SE/4 Sec 5-30N-5W	319.69	San Juan 30-5 #62

Pertinent well data is as follows:

The San Juan 30-5 Unit No. 60 Well is located 1460' from the North Line and 950' from the East Line, Section 5, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on October 15, 1977, and completed on November 1, 1977, in the Mesaverde formation at a plug back total depth of 5832'. The Mesaverde formation was perforated with one hole at each of the following depths: 5484', 5488', 5492', 5520', 5524', 5616', 5620', 5624', 5642', 5646', 5710', 5714', 5718', 5734', 5738', 5744', 5748', 5766', 5770', 5774', 5778', 5782'. These perforations were treated with 7-1/2% hydrochloric acid, followed by a sand-water fracturing. The well was shut-in October 25, 1977 for 7 days with a SIPT of 1125 psig and a SIPC of 1125 psig. On November 1, 1977, 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 3800 MCFD with a calculated AOF of 6298 MCFD.

Attached are Schedule XXXI and ownership map showing the Thirtieth Expanded Participating Area for the Mesaverde formation of the San Juan 30-5 Unit Area. The Schedule describes the Expanded

U.S. Geological Survey
Commissioner of Public Lands
Oil Conservation Commission
February 8, 1978
page three

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, the Thirtieth Expansion will become effective December 1, 1977.

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

Sincerely,



Betty R. Burnett
Supervisor of Contracts and Units

BRB:mk

Enclosures

cc: Working Interest Owners,
San Juan 30-5 Unit

SAN JUAN 30-5 UNIT
Working Interest Owners

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

Crown Central Petroleum Corporation
Attention: Mr. O. I. Halbert III
Exploration Manager
Suite 1002, Wilco Building
Midland, Texas 79701

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

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

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

Lt. Col. Langdon Dewey Harrison,
Trustee for Mrs. Omega E. Quinn
7311 Montgomery, N. E.
Albuquerque, New Mexico 87109

Getty Oil Company
Attention: Mr. J. E. Hofmann
Three Park Central, Suite 700
Denver, Colorado 80202

Coastline Petroleum Co., Inc.
c/o Lone Star Industries, Inc.
2800 Campus Drive
San Mateo, California 94403

SCHEDULE XXXI
THIRTIETH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION
SAN JUAN 30-5 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION		
NM 012331	T-30-N, R-5-W Sec 31: N/2	320.00	<u>TRACT 1</u>					2.137964%	
			Royalty;	12.50%	12.50%				
			Working Interest;						
			Northwest Pipeline Corp.;	82.50%	82.50%				
			ORRI;	5.00%	5.00%				
			TOTAL	100.00%	100.00%				
			<u>TRACT 2</u>						2.137964%
			Royalty;	12.50%	12.50%				
			Working Interest;						
			Northwest Pipeline Corp.;	83.00%	83.00%				
ORRI;	4.50%	4.50%							
TOTAL	100.00%	100.00%							
SF 078738	T-30-N, R-5-W Sec 23: All Sec 25: W/2 Sec 26: NE/4 SW/4 & E/2 Sec 27: SW/4 & E/2 NW/4 & NE/4 & NW/4 SE/4 & S/2 SE/4	1840.00	<u>TRACT 3</u>					12.293294%	
			Royalty;	12.50%	12.50%				
			Working Interest;						
			Northwest Pipeline Corp.;	82.50%	82.50%				
			ORRI;	5.00%	5.00%				
			<u>TRACT 3-A</u>						1.068982%
			Royalty;	12.50%	12.50%				
			Working Interest;						
			Northwest Pipeline Corp.;	84.00%	84.00%				
			ORRI;	3.50%	3.50%				
TOTAL	100.00%	100.00%							
SF 078738	T-30-N, R-5-W Sec 26: NW/4	160.00	<u>TRACT 3-A</u>					1.068982%	
			Royalty;	12.50%	12.50%				
			Working Interest;						
			Northwest Pipeline Corp.;	84.00%	84.00%				
			ORRI;	3.50%	3.50%				
			TOTAL	100.00%	100.00%				

NORTHWEST PIPELINE CORPORATION
UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTUAL PARTICIPATION	
			OWNERSHIP	PERCENTAGE COMMITTED		
SF 078739	T-30-N, R-5-W	800.00	TRACT 4	Royalty;	12.50%	5.344911%
	Sec 21: SW/4 & E/2			Working Interest;	84.50%	
	Sec 22: E/2			Northwest Pipeline Corp.;	3.00%	
	TOTAL			100.00%	100.00%	
SF 078739	T-30-N, R-5-W	320.00	TRACT 4	Royalty;	12.50%	2.137964%
	Sec 22: W/2			Working Interest;	85.00%	
				Northwest Pipeline Corp.;	2.50%	
	TOTAL			100.00%	100.00%	
SF 078739	T-30-N, R-5-W	320.00	TRACT 4	Royalty;	12.50%	2.137964%
	Sec 33: W/2			Working Interest;	86.00%	
				Northwest Pipeline Corp.;	1.50%	
	TOTAL			100.00%	100.00%	
SF 078739	T-30-N, R-5-W	560.00	TRACT 4	Royalty;	12.50%	3.741437%
	Sec 28: S/2 & NW/4			Working Interest;	86.50%	
	& W/2 NE/4			Northwest Pipeline Corp.;	1.00%	
	TOTAL			100.00%	100.00%	

NORTHWEST PIPELINE CORPORATION
UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
SF 078740	<u>T-30-N, R-5-W</u>	1080.00		<u>TRACT 5</u>			
	Sec 19: E/2		Royalty;		12.50%	12.50%	7.215629%
	Sec 20: All		Working Interest;		82.50%	82.50%	
	Sec 29: N/2 NW/4 & SW/4 NW/4		Northwest Pipeline Corp.;		5.00%	5.00%	
TOTAL	ORRI;	100.00%	100.00%				
SF 078740	<u>T-30-N, R-5-W</u>	800.00		<u>TRACT 5-A</u>			
	Sec 29: S/2 & SE/4 NW/4 & W/2 NE/4 & SE/4 NE/4		Royalty;		12.50%	12.50%	5.344911%
	Sec 30: E/2		Working Interest;		83.00%	83.00%	
			Northwest Pipeline Corp.;		4.50%	4.50%	
TOTAL	ORRI;	100.00%	100.00%				
SF 078740	<u>T-30-N, R-5-W</u>	320.00		<u>TRACT 5-B</u>			
	Sec 30: W/2		Royalty;		12.50%	12.50%	2.137964%
			Working Interest;		84.50%	84.50%	
			Northwest Pipeline Corp.;		3.00%	3.00%	
TOTAL	ORRI;	100.00%	100.00%				
SF 078994	<u>T-30-N, R-5-W</u>	1080.00		<u>TRACT 6</u>			
	Sec 15: SW/4 & SW/4 NW/4		Royalty;		12.50%	12.50%	7.215629%
	Sec 17: SW/4 & S/2 NW/4		Working Interest;		82.50%	82.50%	
	Sec 18: All		Northwest Pipeline Corp.;		5.00%	5.00%	
TOTAL	ORRI;	100.00%	100.00%				

Effective December 1, 1977

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATIO
SF 078997	T-30-N, R-5-W Sec 6: S/2 SE/4 & SE/4 SW/4	1280.00		TRACT 7			
	Sec 7: N/2 & N/2 SE/4 & SE/4 SE/4 & NW/4 SW/4		Royalty; Working Interest; Northwest Pipeline Corp.;		12.50%	12.50%	
	Sec 8: NW/4 & N/2 SW/4		ORRI;		82.50%	82.50%	
	Sec 9: W/2				5.00%	5.00%	
	Sec 15: E/2 NW/4 & NW/4 NW/4				100.00%	100.00%	
			TOTAL				8.551857%
				TRACT 11			
SF 080066	T-30-N, R-5-W Sec 6: Lots 8,9,10,11, & S/2 N/2 & N/2 S/2 & SW/4 SW/4	1158.12					
	Sec 5: Lots 5,6,7,8, & S/2 N/2 & S/2		Royalty; Working Interest; Northwest Pipeline Corp.;		12.50%	12.50%	
			ORRI;		82.50%	82.50%	
			TOTAL		5.00%	5.00%	
					100.00%	100.00%	
				TRACT 12			
NM 012335	T-30-N, R-5-W Sec 31: S/2	320.00					
			Royalty; Working Interest; Northwest Pipeline Corp.;		12.50%	12.50%	
			ORRI;		82.50%	82.50%	
			TOTAL		5.00%	5.00%	
					100.00%	100.00%	
							2.137964%

NORTHWEST PIPELINE CORPORATION
UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PRESENT ACTU PARTICIPATI
			OWNERSHIP	PERCENTAGE	
SF 080537	T-30-N, R-5-W Sec 24: W/2	320.00			2.137964%
			TRACT 14		
			Royalty;	12.500%	
	Working Interest;				
	El Paso Natural Gas Co.;		83.125%	83.125%	
	ORRI;		4.375%	4.375%	
	TOTAL		100.000%	100.000%	
SF 080538	T-30-N, R-5-W Sec 11: E/2 Sec 14: E/2	640.00			4.275928%
			TRACT 15		
			Royalty;	12.500%	
	Working Interest;				
	El Paso Natural Gas Co.;		83.125%	83.125%	
	ORRI;		4.375%	4.375%	
	TOTAL		100.000%	100.000%	
SF 080538	T-30-N, R-5-W Sec 12: Lots 1, 2, & SW/4 NE/4	68.63			.458527%
			TRACT 17		
			Royalty;	12.500%	
	Working Interest;				
	Coastline Petroleum Company, Inc. (by virtue of Farmout from El Paso Natural Gas Co.)		81.125%	81.125%	
	ORRI;		6.375%	6.375%	
	TOTAL		100.000%	100.000%	
E-347-41	T-30-N, R-5-W Sec 16: NE/4	160.00			1.068982%
			TRACT 17		
			Royalty;	12.50%	
	Working Interest;				
	Northwest Pipeline Corp.;		87.50%	87.50%	
	ORRI;		.00%	.00%	
	TOTAL		100.00%	100.00%	

NORTHWEST PIPELINE CORPORATION
UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
E-347-40	T-30-N, R-5-W Sec 16: N/2 NW/4	80.00		TRACT 17-A			.534491%
			Royalty;		12.50%	12.50%	
			Working Interest;		82.75%	82.50%	
			Northwest Pipeline Corp.;		4.75%	5.00%	
			ORRI;				
			TOTAL		100.00%	100.00%	
				TRACT 17-B			1.068982%
E-347-36	T-30-N, R-5-W Sec 32: NW/4	160.00		TRACT 17-B			
			Royalty;		12.50%	12.50%	
			Working Interest;		82.50%	82.50%	
			Northwest Pipeline Corp.;		5.00%	5.00%	
			ORRI;				
			TOTAL		100.00%	100.00%	
				TRACT 17-C			1.068982%
E-347-37	T-30-N, R-5-W Sec 32: NE/4	160.00		TRACT 17-C			
			Royalty;		12.50%	12.50%	
			Working Interest;		85.50%	85.50%	
			Northwest Pipeline Corp.;		2.00%	2.00%	
			ORRI;				
			TOTAL		100.00%	100.00%	
				TRACT 17-D			.534491%
E-347-40	T-30-N, R-5-W Sec 16: S/2 NW/4	80.00		TRACT 17-D			
			Royalty;		12.50%	12.50%	
			Working Interest;		82.50%	82.50%	
			Northwest Pipeline Corp.;		5.00%	5.00%	
			ORRI;				
			TOTAL		100.00%	100.00%	

NORTHWEST PIPELINE CORPORATION

UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
E-347-17	<u>T-30-N, R-5-W</u> Sec 36: NW/4	160.00	Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;	<u>TRACT 17-D-1</u>	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	1.068982%
E-347-38	<u>T-30-N, R-5-W</u> Sec 36: SW/4	160.00	Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;	<u>TRACT 17-E</u>	12.50% 85.00% 2.50% 100.00%	12.50% 85.00% 2.50% 100.00%	1.068982%
E-347-39	<u>T-30-N, R-5-W</u> Sec 16: S/2 Sec 32: S/2 Sec 36: Lots 1,2,3,4, & W/2 E/2	860.76	Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;	<u>TRACT 17-F</u>	12.50% 82.50% 5.00% 100.00%	12.50% 82.50% 5.00% 100.00%	5.750856%
Fee	<u>T-30-N, R-5-W</u> Sec 8: E/2	320.00	Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;	<u>TRACT 18</u>	12.50% 87.50% .00% 100.00%	12.50% 87.50% .00% 100.00%	2.137964%

Effective December 1, 1977

NORTHWEST PIPELINE CORPORATION
UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
Fee	<u>T-30-N, R-5-W</u> Sec 7: S/2 SW/4 & NE/4 SW/4 & SW/4 SE/4	160.00	Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;	<u>TRACT 19</u>	12.50% 87.50% .00% <u>100.00%</u>	12.50% 87.50% .00% <u>100.00%</u>	1.068982%
Fee	<u>T-30-N, R-5-W</u> Sec 17: NE/4	160.00	Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;	<u>TRACT 20</u>	12.50% 87.50% .00% <u>100.00%</u>	12.50% 87.50% .00% <u>100.00%</u>	1.068982%
Fee	<u>T-30-N, R-5-W</u> Sec 17: SE/4	160.00	Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;	<u>TRACT 21</u>	12.50% 87.50% .00% <u>100.00%</u>	12.50% 87.50% .00% <u>100.00%</u>	1.068982%
Fee	<u>T-30-N, R-5-W</u> Sec 21: NW/4	160.00	Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;	<u>TRACT 22</u>	12.50% 87.50% .00% <u>100.00%</u>	12.50% 87.50% .00% <u>100.00%</u>	1.068982%

Effective December 1, 1977

NORTHWEST PIPELINE CORPORATION
UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
Fee	T-30-N, R-5-W Sec 27: W/2 NW/4	80.00		TRACT 23			.534491%
	Royalty;				12.50%	12.50%	
	Working Interest:						
	Northwest Pipeline Corp.;				87.50%	87.50%	
	ORRI;				.00%	.00%	
	TOTAL				100.00%	100.00%	
Fee	T-30-N, R-5-W Sec 28: E/2 NE/4	80.00		TRACT 23-A			.534491%
	Royalty;				12.50%	12.50%	
	Working Interest:						
	Northwest Pipeline Corp.;				87.50%	87.50%	
	ORRI;				.00%	.00%	
	TOTAL				100.00%	100.00%	
Fee	T-30-N, R-5-W Sec 26: W/2 SW/4 & SE/4 SW/4 Sec 27: NE/4 SE/4	160.00		TRACT 24			1.068982%
	Royalty;				12.50%	12.50%	
	Working Interest:						
	Northwest Pipeline Corp.;				87.50%	87.50%	
	ORRI;				.00%	.00%	
	TOTAL				100.00%	100.00%	
Fee	T-30-N, R-5-W Sec 8: S/2 SW/4 Sec 17: N/2 NW/4 (except 4.00 acres)	156.00		TRACT 25			1.042258%
	Royalty;				12.50%	12.50%	
	Working Interest:						
	Northwest Pipeline Corp.;				87.50%	87.50%	
	ORRI;				.00%	.00%	
	TOTAL				100.00%	100.00%	

NORTHWEST PIPELINE CORPORATION
UNIT AREA EXPANSION SCHEDULE

SCHEDULE XXXI

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
Fee	T-30-N, R-5-W Sec 17: A tract of land 1200' long by 450' wide lying in the NW/4 of Sec. 17	4.00		TRACT 25-A			
			Royalty; Working Interest; Northwest Pipeline Corp.; ORRI;		12.50%	12.50%	.026725%
					87.50%	87.50%	
					.00%	.00%	
			TOTAL		100.00%	100.00%	

RECAPITULATION

Township 30 North, Range 5 West, N.M.P.M.

- Sections 5,6,7,8,16,17,18,20,21,22,23,26,27,28,30,31,32,36: All
- Sections 9,16,24,25,33: W/2
- Sections 11,14,19,35: E/2
- Section 12: Lots 1,2, SW/4 NE/4
- Section 29: W/2 & SE/4 & NW/4 NE/4 & S/2 NE/4

Total Number of Acres in Participating Area: 14,967.51
 Total Number of Acres Committed to Participating Area: 14,967.51