

LAND DEPARTMENT

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P.O. 80X 8900 SALT LAKE CITY, UTAH 84108-0900 801-584-6669 801-584-7215

April 5, 1988

Assistant District Manager, Minerals Bureau of Land Management 425 Montano, N.E. Albuquerque, NM 87107

State of New Mexico Commissioner of Public Lands Attn: Mr. Floyd O. Prando P.O. Box 1148 Santa Fe, NM 87501

State of New Mexico Oil Conservation Commission Attn: Mr. William J. LeMay P.O. Box 2088 Santa Fe, NM 87501

> Re: San Juan 32-8 Unit #14-08-001-446 San Juan County, New Mexico Application for Approval for Extension of Time to Drill Intervening Drilling Block wells

Gentlemen:

Northwest Pipeline Corporation (NWP), as Unit Operator, in 1985 drilled well #50 MV, located in T32N, R8W, Sec. 28: W/2. The drilling of this well created two (2) intervening drilling blocks; Sec. 28: E/2 and Sec. 29: E/2.

In 1986 NWP applied for and received from the regulatory agencies an extension of time which deferred the drilling of these wells until 1988. There still exist a decline in the gas market. Therefore, NWP requests that another extension of time be given to drill these intervening drilling block wells.

We request that the extension of time given be that time which would be prudent and cost effective; determined from an evaluation of the gas market, instead of the year 1988.

Bureau of Land Management Commissioner of Public Lands Oil Conservation Commission April 5, 1988 Page 2

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

Sincerely,

NORTHWEST PIPELINE CORPORATION

Dovell I. Gillen

Darrell L. Gillen Supervisor, Land/NGPA

DLG/cg

Attachments cc: Working Interest Owners K. J. Stracke Assistant District Manager, Minerals Commissioner of Public Lands Oil Conservation Commission April 5, 1988 Page 3

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

APPROVED

OFI Conservation Commission Subject to like approval by the Area Oil and Gas Supervisor and the Commissioner of Public Lands

DATE 5-5-88

# U56N2650 04/05/88

# WORKING INTEREST OWNERS SAN JUAN 32-8 UNIT

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H. H. PHILLIPS, AGENT 8918 TESORO DR. - SUITE 116 San Antonio, TX 78217 H. H. PHILLIPS, JR. B918 TESORO DR. - SUITE 116 San Antonio, TX 78217 MERIDIAN OIL PRODUCTION INC Land department P.O. Box 4289 Farmington, nm 87401

PHILLIPS PETROLEUM COMPANY ATTN: ANTHONY TAI B055 E. TUFTS AVE. PKWV. DENVER, CO B0237

SOUTHLAND ROVALTY COMPANY 3535 E. 30TH STREET FARMINGTON, NM 87499 SUN EXPLORATION & PRODUCTION COMPANY ATTN: OBO ACCOUNTING P.U. HUX 2880 Dallas, TX 75221

SUZANNA P. KELLY P.O. BOX 585 Cameron, mt 59720 TEXACO, INC. ATTN: COMPTROLLERS DEPARTMENT P.O. BOX 2100 DENVER, CO BOZO1

WINTERGREEN ENERGY CORP. ATTN: GENE N. GARNETT DORCHESTER PLACE - SUITE 125 5735 PINELAND DRIVE DALLAS, TX 75231 75231

# State of New Mexico

446



SLO REF. NO. 0G-353

W.R. HUMPHRIES

Commissioner of Public Lands

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

August 18, 1987

Northwest Pipeline Corporation Attention: Darrell L. Gillen P. O. Box 8900 Salt Lake City, Utah 84108-0900

> Re: San Juan 32-8 Unit 1987 Plan of Development Rio Arriba County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all appropriate agencies.

In future Plan of Developments, please submit a plat of the unit area.

If we may be of further help, please do not hesitate to call on us.

Very truly yours,

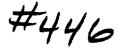
W. R. HUMPHRIES COMMISSIONER OF PUBLIC LANDS

rd vo V BY:

FLOYD O. <sup>J</sup>PRANDO, Director Oil & Gas Division (505) 827-5744

WRH/FOP/ams enclosure cc:Bureau of Land Management Oil Conservation Division

State of New Mexico





W.R. HUMPHRIES



Commissioner of Public Lands

SLO REF NO. OG-214

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

June 23, 1987

Northwest Pipeline Corporation ATTENTION: Mr. Darrell L. Gillen P. O. Box 8900 Salt Lake City Utah 84108-0900

> Re: San Juan 32-8 Unit Amended 18th and 19th Expanded Participating Area-Mesaverde Formation Effective Feb 1, 1982 and July 1, 1983

Gentlemen:

The Bureau of Land Management has notified this office that the Amended 18th, and 19th. Expanded Participating Areas for the Mesaverde Formation, San Juan 32-8 Unit, San Juan County, New Mexico have been approved. Please be advised that the Commissioner of Public Lands concurs with the Bureau of Land Management and has this date also approved your application for the above mentioned Participating Areas.

The Amended Eighteenth revison adds 320.00 acres to the Mesaverde Participating Area for a total of 1,280.00 acres. This additional acreage is described as the E/2 of Section 14, Township 32 North, Range 8 West., NMPM. The Amended Eighteenth revision is effective as of February 1, 1982 and is predicated upon the successful completion of the San Juan 32-8 Unit Well No. 46.

The Ninteenth revision to the Mesaverde Participating Area contains 320.00 Acres, and is described as the E/2 of Section 20, Township 32 North. Range 8 West. The Nineteenth revision is effective as of July 1, 1983 and is predicated upon the successful completion of the Rattlesnake Canyon Com Well No. 3.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

WILLIAM R. HUMPHRIES COMMISSIONER OF PUBLIC LANDS BY: The state of the second FLOYD O./PRANDO, Director Oil and Sas Division (363) 827-5714

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SC: OCD-Santa Fe, New Mexico BLM-Albuquerque, New Mexico OGAD-Santa Fe, New Mexico NORTHWEST PIPELINE CORPORATION

ONE OF THE WILLIAMS COMPANIES

LAND DEPARTMENT

PIO BOX 8900 SALT LAKE 0 TY UTAH 84118 (1900) 901 584 3659 801 584 7215

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June 16, 1987

Assistant Area Oil and Gas Supervisor Bureau of Land Management 425 Montano, N.E. Albuquerque, NM 87107

State of New Mexico Commissioner of Public Lands ATTN: Floyd O. Prando P.O. Box 1148 Santa Fe, NM 87501

State of New Mexico Oil Conservation Commission ATTN: William J. LeMay P.O. Box 2088 Santa Fe, NM 87501

> RE: San Juan 32-8 Unit #14-08-001-446 San Juan County, New Mexico

APPROVAL OF THE AMENDED EIGHTEENTH EXPANDED PARTICIPATING AREA Mesaverde Formation Effective February 1, 1982

APPROVAL OF THE NINETEENTH EXPANDED PARTICIPATING AREA Mesaverde Formation Effective July 1, 1983

Gentlemen:

The referenced Approvals for the amended 18th and the 19th Expanded Participating Areas which were filed March 13, 1987, have been approved by the Bureau of Land Management on May 12, 1987. Bureau of Land Management Commissioner of Public Lands June 16, 1987 Page Two

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

Very truly yours,

Danell I. Gullen

Darrell L. Gillen Land/NGPA Supervisor

DLG/sp Attachments cc: K. J. Stracke W. O. Curtis W. S. West L. Eaton C. Potter - 10348 N. K. Zunino J. E. McNeil - 10482 L. G. Loving - 10482 R. P. Gregory - 10482



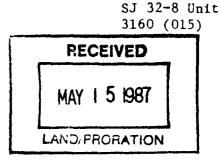
# United States Department of the Interior

BUREAU OF LAND MANAGEMENT ALBUQUERQUE DISTRICT OFFICE



435 Montano N.E. Albuquerque, New Mexico 87107

MAY 1 2 1987



Northwest Pipeline Corporation ATTN: Darrell L. Gillen 295 Chipeta Way Salt Lake City, UT 84108

Gentlemen:

We have received your letter of March 13, 1987. You requested the approval of the amended 18th expanded participating area and 19th expanded participating area Mesaverde Formation, San Juan 32-8 Unit, San Juan County, New Mexico.

The application for approval of the amended 18th revision seeks to add 320.00 acres to the 18th revision (for a total of 1280.00 acres in the 18th revision) described as the  $E_2^{\frac{1}{2}}$  section 14, T. 32 N., R. 8 W., NMPM, to the Mesaverde participating area. Contributing to this area is the completion of the San Juan 32-8 Unit No. 46 well. The amended 18th revision is approved on this date and is effective February 1, 1982.

The application for approval of the 19th revision seeks to add 320.00 acres described as the E<sup>1</sup>/<sub>2</sub> section 20, T. 32 N., R. 8 W., NMPM, to the Mesaverde participating area. Contributing to this area is the completion of the Rattlesnake Canyon Com well No. 3. The 19th revision is approved on this date and is effective July 1, 1983.

An approved copy of your 18th and 19th expansion is enclosed. If you have any questions regarding the above actions, please contact Gail Keller at the above address or telephone (505) 761-4503.

Sincerely,

Assistant District Manager Mineral Resources

Enclosure

# SAN JUAN 32-8 WORKING INTEREST OWNERS

Texaco Inc. Mr. T. L. Ditmore, Manager, Petroleum Engineering P. O. Box 2100 Denver, Co 80201

Meridian Oil Land Department P. O. Box 4289 Farmington, NM 87499

Southland Royalty Company 5613 DTC Parkway Englewood, CO 80111

Wintergreen Energy Dorchester Place - Suite 125 5735 Pineland Drive Dallas, TX 75231

H. H. Phillips, Agent 8918 Tesoro Drive, Suite 116 San Antonio, TX 78217

Susanna Phillips Kelly Bar K Ranch - P. O. Box 585 Cameron, MT 59720

H. H. Phillips, Jr. 8918 Tesoro Drive, Suite 116 San Antonio, TX 78217



LAND DEPARTMENT

P O. BOX 8900 SALT LAKE CITY. UTAH 84108-0900 801-584-6669 801-584-7215

Second Contraction

March 13, 1987

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Assistant District Manager, Minerals Bureau of Land Management Western National Bank Building 505 Marquette NW, Suite 815 Albuguergue, New Mexico 87102

State of New Mexico Commissioner of Public Lands Attn: Mr. Floyd O. Prando P.O. Box 1148 Santa Fe, New Mexico 87501

State of New Mexico Oil Conservation Commission Attn: Mr. William J. LeMay P.O. Box 2088 Santa Fe, New Mexico 87501

> Re: San Juan 32-8 Unit #14-08-001-446 San Juan County, New Mexico

> > AMENDED 18th EXPANDED PARTICIPATING AREA MESAVERDE FORMATION Effective February 1, 1982

<u>19th EXPANDED PARTICIPATING AREA</u> <u>MESAVERDE FORMATION</u> Effective July 1, 1983

Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-8 Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, determined on the dates indicated below that the following wells, which are capable of producing unitized substances in paying quantities from the Mesaverde formation, have been completed upon a drilling block committed to this Unit. Bureau of Land Management Commissioner of Public Lands Oil Conservation Commissioner March 13, 1987 Page -2-

The San Juan 32-8 Unit No. 46 well was determined by the BLM as a commercial well. Therefore, it will enlarge the Eighteenth Expanded Participating Area by 320 acres, as indicated below.

# AMENDED FIGHTEFNTH EXPANDED PARTICIPATING AREA - Effective February 1, 1982

DESCRIPTION OF ADDITIONAL LANDS	<u>Acres</u>	Well Name & No.
Township 32 North, Range 8 West Section 14: E/2	320.00	San Juan 32-8 Unit No. 46
DESCRIPTION OF EXISTING LANDS	Acres	Well Name & No.
<u>Township 32 North, Range 8 West</u> Section 14: W/2	320.00	San Juan 32-8 Unit No. 45
<u>Township 32 North, Range 8 West</u> Section 15: E/2	320.00	Intervening Drilling Block
<u>Township 32 North, Range 8 West</u> Section 30: E/2	320.00	San Juan 32-8 Unit No. 47

# NINETEENTH EXPANDED PARTICIPATING AREA - Effective July 1, 1983

<u>Township 32 North, Range 8 West</u>	320.00	Rattlesnake Canyon
Section 20: E/2		Com Well #3

The well information is as follows:

The San Juan 32-8 #46 well is located 1820 feet from the North line and 790 feet from the East line, Section 14, Township 32 North, Range 8 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on September 5, 1981 and is a dually completed well. The Mesaverde formation was completed on January 5, 1982. This formation was perforated with 24 holes at the following depths:

# 5940' to 6330'

These perforations were treated with 10,000 gallons pad water followed by 80,000 pounds of 20/40 sand in fracturing fluid. The well was initially tested on January 5, 1982 using a positive choke in a three hour test. The SITP was 1154 psig with a flowing pressure of 118 psig producing at a rate of 1651 MCFD. The calculated AOF was 1721 MCFD. Bureau of Land Management Commissioner of Public Lands Oil Conservation Commissioner March 13, 1987 Page -3-

> The <u>Raltlesnake Canyon Com #3 well</u> is located 1450 feet from the South line and 1140 feet from the East line, Section 20, Township 32 North, Range 8 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on May 12, 1983. The Mesaverde formation was completed on June 20, 1983. The Mesaverde formation was perforated with 92 holes at the following depths:

# 5334' to 5743'

These perforations were treated with 167,186 gallons pad water followed by 119,250 pounds of 20/40 sand. The well was tested on June 20, 1983 using a positive choke in a three hour test. The well was tested at a 3451 MCFD flow rate with a calculated AOF of 3572 MCFD. The ISIP was measured at 1059 psig.

Allached are Schedules TXX, XX, and ownership maps showing the 18th and 19th Expanded Participating Areas for the Mesaverde Formation of the San Juan 32-8 Unit Area. The Schedules describe the Expanded Participating Areas and show the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, in the absence of disapproval, the subject expansions are effective as of the dates indicated.

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

Very truly yours,

Panell I Giller

Darrell L. Gillen Land Coordinator

DLG:js Attachments cc: K. J. Stracke W. O. Curtis K. Nielsen L. Eaton C. Potter - 10348 R. L. Glenn - 10350 J. E. McNeil - 10482 L. G. Loving - 10482 R. P. Gregory - 10482 Minerals Management Service Commissioner of Public Lands Oil Conservation Commission March 13, 1987 Page -4-

APPROVED

Assistant District Manager, Minerals Subject to like approval by the Commissioner of Public Lands and the Dil Conservation Division

APPROVED

Commissioner of Public Lands Subject to like approval by the Assistant District Manager, Minerals and the Oil Conservation Division

APPROVED

Ry Elohim

Oil Conservation Division Subject to like approval by the Assistant District Manager, Minerals and the Commissioner of Public Lands Date\_\_\_\_\_

Date\_\_\_\_

Date 3-30-87

The foregoing is the approval for the AMENDED 18TH EXPANDED PARTICIPATING AREA AND THE 19TH EXPANDED PARTICIPATING AREA, MESAVERDE FORMATION in the San Juan 32-8 Unit.

# SAN JUAN 32-8 UNIT WORKING INTEREST OWNERS

Texaco, Inc. Mr. T. L. Ditmore, Manager, Petroleum Engineering P. O. Box 2100 Denver, Colorado 80201

Meridian Oil Land Department P. O. Box 4289 Farmington, NM 87401

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Southland Royalty Company 5613 DTC Parkway Englewood, CO 80111

Wintergreen Energy Dorchester Place - Suite 125 5735 Pineland Drive Dallas, TX 75231

H. H. Phillips, Agent 8918 Tesoro Drive, Suite 116 San Antonio, TX 78217

Susanna Phillips Kelly Bar K Ranch - P. O. Box 585 Cameron, MT 59720

H. H. Phillips, Jr. 8918 Tesoro Drive, Suite 116 San Antonio, TX 78217

## NORTHWEST PIPELINE CORPORATION UNIT AREA EXPANSION SCHEDULE

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
				TRACT 3			
NM-013364	<u>T-31-N, R-8-W</u> Sec. 21: N/2N/2 N/2S/2, SE/4SE/4	360.00	Susanna I Wintergro H. H. Ph	t Pipeline Corp.,	12.500000% 54.263195% 1.539378% 10.102190% 18.761217% 1.539377% <u>1.294643%</u> 100.000000%	12.500000% 54.263195% 1.539378% 10.102190% 18.761217% 1.539377% <u>1.294643%</u> 100.000000%	3.135320 <b>%</b>
				TRACT 4			
SF -079004	<u>T-31-N, R-8-W</u> Sec. 9: A11 Sec. 10: A11 Sec. 15: N/2, N/2SE/4, SE/4SE/4	1,720.00	Royalty; Working Int Northwest ORRI;	terest: t Pipeline Corp., Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% <u>5.000000%</u> 100.000000%	14.979865%
				TRACT 5			
SF-079013	<u>T-32-N, R-8-W</u> Sec. 17: W/2 Sec. 20: W/2 Sec. 29: W/2	960.00	Royalty; Working Inf Northwest ORRI;	terest: t Pipeline Corp., Total	12.500000% 82.500000% 5.000000% 100.000000%	12.500000% 82.500000% 5.000000%	8.360854%

# NORTHWEST PIPELINE CORPORATION UNIT AREA EXPANSION SCHEDULE

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Page 2 of 7 2016t

<u>SERIAL NUMBER</u>	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK TRACT 7	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
SF-079029	<u>T-31-N, R-8-W</u> Sec. 3: Lots 1,2 3,4, S/2N/2, S/2 Sec. 4: Lots 1,2 3,4, S/2N/2, SE/ E/2SW/4, SW/4SW/ Sec. 21: S/2N/2, S/2SW/4, SW/4SE/	, 4, 4	Royalty; Working Int Northwest ORRI;		12.50000% 82.50000% 5.00000% 100.00000%	12.500000% 82.500000% 5.000000%	13.256135 <b>%</b>
				TRACT 8			
SF 079047	<u>T-31-N, R-8-W</u> Sec. 14: W/2 Sec. 23: W/2	640.00	Royalty; Working Int Northwest ORRI;	cerest: Pipeline Corp., Total	12.500000% 82.500000% 5.000000% 100.000000%	12.500000% 82.500000% 5.000000% 100.000000%	5.57390 <b>3%</b>
				TRACT 11			
SF 079341-A	<u>T-32-N, R-8-W</u> Sec. 19: SW/4SE/4 Sec. 30: E/2	360.00 4	Royalty; Working Int Northwest ORRI;	erest: Pipeline Corp., Total	12.500000% 82.500000% <u>5.000000%</u> 100.000000%	12.500000% 82.500000% <u>5.000000%</u> 100.000000%	3.135320%
				TRACT 13			
SF 079351	<u>T-31-N, R-8-W</u> Sec. 24: E/2, E/2NW/4	400.00	Royalty; Working Int El Paso N ORRI;	erest: Datural Gas Co., Total	12.500000% 85.000000% 2.500000% 100.000000%	12.500000% 85.000000% <u>2.500000%</u> 100.000000%	3.48368 <b>9%</b>

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<u>SERIAL NUMBER</u>	DESCRIPTION	NUMBER OF_ACRES		ING BLOCK TRACT 14	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
SF 079353	<u>T-32-N, R-8-W</u> Sec. 14: N/2 Sec. 15: N/2,SW/ Sec. 19: NE/4, N/2SE/4, SE/4SE/4 Sec. 33: W/2	1,400.00 4	Royalty; Working Interest: Northwest Pipel ORRI;	ine Corp., Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% <u>5.000000%</u> 100.000000%	12.192913%
			]	TRACT 15			
SF 079380	<u>T-32-N, R-8-W</u> Sec. 14: S/2 Sec. 15: SE/4 Sec. 22: W/2	800.00	Royalty; Working Interest: El Paso Natural ORRI;	Gas Co., Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% 5.000000% 100.000000%	6.967379%
			]	TRACT 16			
SF 079381	<u>T-32-N, R-8-W</u> Sec. 33: E/2 Sec. 34: W/2 Sec. 35: E/2	960.00	Royalty; Working Interest: El Paso Natural ORRI;	Gas Co., Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% 5.000000% 100.000000%	8.360854%
			Ī	TRACT 17			
SF 079717	<u>T-32-N, R-8-W</u> Sec. 27: W/2SW/4, SE/4SW/4	120.00	Royalty; Working Interest: Northwest Pipeli ORRI;	ine Corp., Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% 5.000000%	1 . 045 10 7%

NORTHWEST PIPELINE CORPORATION UNIT AREA EXPANSION SCHEDULE

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# SCHEDULE IXX AMENDED EIGHTEENTH PARTICIPATING AREA FOR THE MESAVERDE FORMATION SAN JUAN 32-8 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER DF_ACRES	OWNERSHIP DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
SF 080412-A	<u>T-32-N, R-8-W</u> Sec. 27: NW/4, NE/4SW/4	200.00	<u>TRACT 18</u> Royalty; Working Interest: El Paso Natural Gas Co., ORRI; Total	12.500000% 85.000000% <u>2.500000%</u> 100.000000%	12.500000% 85.000000% 2.500000% 100.000000%	1.741845%
SF 080854	<u>T-31-N, R-8-W</u> Sec. 24: W/2NW/4, SW/4	240.00	<u>TRACT 19</u> Royalty; Working Interest: Northwest Pipeline Corp., ORRI; Total	12.50000% 82.50000% 5.00000% 100.00000%	12.500000% 82.500000% 5.000000%	2.090214%
SF 081089	<u>T-31-N, R-8-W</u> Sec. 23: E/2	320.00	<u>TRACT 20</u> Royalty; Working Interest: Northwest Pipeline Corp., ORRI; Total	12.500000% 82.500000% 5.000000% 100.000000%	12.500000% 82.500000% 5.000000% 100.000000%	2. 78695 1 <b>%</b>
NM-03402	<u>T-31-N, R-8-W</u> Sec. 15: SW/4, SW/4SE/4 Sec. 22: All	840.00	<u>TRACT 2]</u> Royalty; Working Interest: Northwest Pipeline Corp., ORRI; Jotal	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% 5.000000%	7.315748%

Effective February 1, 1982

NORTHWEST PIPELINE CORPORATION UNIT AREA EXPANSION SCHEDULE

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# SCHEDULE IXX AMENDED EIGHTEENTH PARTICIPATING AREA FOR THE MESAVERDE FORMATION SAN JUAN 32-8 UNIT AREA

SERIAL NUMBER		UMBER ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
				TRACT 24			
E-1204-4	<u>T-31-N, R.8-W</u> 4 Sec. 16: NW/4NE/4, SE/4NE/4,	400.00	Royalty; Working Inte Northwest	erest: Pipeline Corp.,	12.500000% 82.500000%	12.500000% 82.500000%	3.48368 <b>9%</b>
	NW/4, NE/4SW/4, SW/4SW/4, N/2SE/4		ORRI;	Total	5.000000%	<u>5.000000%</u>	
	JW/ 4JW/ 4, (4/ 232/ 4			local	100.00000	100.00000	
				TRACT 26			
E-3704-3	<u>T-31-N, R-8-W</u> Sec. 16: SW/4SE/4	40.00	Royalty; Working Inte	anast :	12.500000%	12.500000%	. 348369%
	32C. 10. 3W/43L/4		Northwest	Pipeline Corp.,	82.500000%	82.500000%	
			ORRI;	Total	<u>5.000000%</u> 100.000000%	<u>5.000000%</u> 100.000000%	
				TRACT 28			
E-3868-3	<u>T-31-N, R-8-W</u> Sec. 16: SW/4NE/4	40.00	Royalty; Working Inte	erest:	12.500000%	12.500000%	. 348369%
			Northwest ORRI;	Pipeline Corp.,	82.500000%	82.500000%	
			URKI,	Total	<u>5.000000%</u> 100.000000%	<u>5.000000%</u> 100.000000%	
				TRACT 31			
E5113-70	<u>T-31-N, R-8-W</u> Sec. 16: NW/4SW/4	40.00	Royalty; Working Inte	erest:	12.500000%	12.500000%	. 348369%
			Northwest	Pipeline Corp.,	81.500000%	81.50000%	
			ORRI;	Total	<u>6.000000%</u> 100.000000%	<u>6.000000%</u> 100.000000%	

Effective February 1, 1982

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
				TRACT 34			
E-5382	<u>T-31-N, R-8-W</u> Sec. 16: NE/4NE/4	40.00	Royalty; Working Int Texaco, 1 ORRI;		12.500000% 87.500000% 0.000000%	12.500000% 87.500000% 0.000000% 100.000000%	. 348369%
				TRACT 38			
B-11240-71	<u>T-31-N, R-8-₩</u> Sec. 16: SE/4SW/4	40.00	Royalty; Working Int Northwest ORRI;	cerest: Pipeline Corp., Total	12.500000% 85.000000% 2.500000% 100.000000%	12.500000% 85.000000% <u>2.500000%</u> 100.000000%	. 348369 <b>%</b>
				TRACT 38-A			
B11240-70	<u>T-31-N, R-8-W</u> Sec. 16: SE/4SE/4	40.00	Royalty; Working Int Northwest ORRI;	cerest: Pipeline Corp., Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% 5.000000%	. 348369%

# NORTHWEST PIPELINE CORPORATION UNIT AREA EXPANSION SCHEDULE

Page 7 of 7 2016t

# SCHEDULE IXX AMENDED EIGHTEENTH PARTICIPATING AREA FOR THE MESAVERDE FORMATION SAN JUAN 32-8 UNIT AREA

## RECAPITULATION

#### Description of Lands in Participating Area:

Township 32 North, Range 8 West, N.M.P.M.

Sections 17, 20, 22, 27, 29, 34: W/2 Sections 19, 30, 35: E/2 Sections 14, 15, 33: All

#### Township 31 North, Range 8 West, N.M.P.M.

Section 14: W/2 Sections 3, 9, 10, 15, 16, 21, 22, 23, 24: All Section 4: N/2, SE/4, NE4/SW/4, S/SW/4

Total Number of Acres in Participating Area: 11,482.08

Total Number of Acres Committed to Participating Area: 11,482.08

Effective February 1, 1982

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
				TRACT 3			
NM013364	<u>T-31-N, R-8-₩</u> Sec. 21: N/2N/2, N/2S/2, SE/4SE/4	360.00	Susanna I Wintergro H. H. Ph <sup>:</sup>	t Pipeline Corp.,	12.500000% 54.263195% 1.539378% 10.102190% 18.761217% 1.539377% <u>1.294643%</u> 100.000000%	12.500000% 54.263195% 1.539378% 10.102190% 18.761217% 1.539377% <u>1.294643%</u> 100.000000%	3.102892 <b>%</b>
				TRACT 4			
SF079004	<u>T-31-N, R-8-W</u> Sec. 9: All Sec. 10: All Sec. 15: N/2, N/2SE/4, SE/4SE/4	1,720.00 4	Royalty; Working Int Northwest ORRI;	terest: t Pipeline Corp., Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% 5.000000% 100.000000%	14.824927%
				TRACT 5			
SF079013	<u>T-32-N, R-8-W</u> Sec. 17: W/2 Sec. 20: W/2, SW/4SE/4, N/2NE/4 Sec. 29: W/2	1,080.00 4	Royalty; Working Int Northwest ORRI;	terest: t Pipeline Corp., Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% 5.000000% 100.000000%	9.308676 <b>%</b>

# NORTHWEST PIPELINE CORPORATION UNIT AREA EXPANSION SCHEDULE

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# SCHEDULE XX NINETEENTH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION SAN JUAN 32-8 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF_ACRES	<u>OWNERSHIP</u>	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
				TRACT 6			
NM-33056	<u>T-32-N, R-8-₩</u> Sec. 20: S/2NE/4 N/2SE/4, SE/4SE/		Royalty; Working In Southland	terest: d Royalty	12.500000%	00.000000 <b>%</b> 00.000000%	0.000007
			ORRI;	Total	2.500000% 100.000000%	00.00000% 00.00000%	
				TRACT 7			
SF -0 79029	<u>T-31-N, R-8-W</u> Sec. 3: Lots 1, 2,3,4, S/2SN/2, S/2 Sec. 4: Lots 1,2 3,4, S/2N/2, SE/ E/2SW/4, SW/4SW/ Sec. 21: S/2N/2, S/2SW/4, SW/4SE/	74, 74	Royalty; Working Int Northwest ORRI;	terest: t Pipeline Corp., Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% 5.000000%	13.119027%
				TRACT 8			
SF 079047	<u>1-31-N, R-8-W</u> Sec. 14: W/2 Sec. 23: W/2	640.00	Royalty; Working Int Northwest ORRI;	cerest: Pipeline Corp., Total	12.500000% 82.500000% <u>5.000000%</u> 100.000000%	12.500000% 82.500000% <u>5.000000%</u> 100.000000%	5.516252%

# Effective July 1, 1983

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SERIAL NUMBER	NUMBER DESCRIPTION OF ACRES	OWNERSHIP DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
		TRACT 11			
SF 079341-A	<u>T-32-N, R-8-W</u> 360.00 Sec. 19: SW/4SE/4 Sec. 30: E/2	Royalty; Working Interest: Northwest Pipeline Corp., ORRI; Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% <u>5.000000%</u> 100.000000%	3.102892%
		TRACT 13			
SF 079351	<u>T-31-N, R-8-W</u> 400.00 Sec. 24: E/2, E/2NW/4	Royalty; Working Interest: El Paso Natural Gas Co., ORRI; Total	12.500000% 85.000000% 2.500000% 100.000000%	12.500000% 85.000000% <u>2.500000%</u> 100.000000%	3.447658%
		TRACT 14			
SF 079353	<u>T-32-N, R-8-W</u> 1,400.00 Sec. 14: N/2 Sec. 15: N/2, SW/4 Sec. 19: NE/4, N/2SE/4, SE/4SE/4 Sec. 33: W/2	Royalty; Working Interest: Northwest Pipeline Corp., ORRI; Total	12.500000% 82.500000% 5.000000% 100.000000%	12.500000% 82.500000% 5.000000% 100.000000%	12.066802%
		TRACT 15			
SF 079380	<u>T-32-N, R-8-W</u> 800.00 Sec. 14: S/2 Sec. 15: SE/4 Sec. 22: W/2	Royalty; Working Interest: El Paso Natural Gas Co., ORRI; Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% 5.000000%	6.895315%

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# SCHEDULE XX NINETEENTH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION SAN JUAN 32-8 UNIT AREA

SERIAL NUMBER		NUMBER F ACRES	OWNERSHIP D	RILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
				TRACT 16			
SF 079381	<u>T-32-N, R-8-W</u> Sec. 33: E/2 Sec. 34: W/2 Sec. 35: E/2	960.00	Royalty; Working Intera El Paso Natu ORRI;	est: ural Gas Co., Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% 5.000000%	8.274378 <b>%</b>
				TRACT 17			
SF 079717	<u>T-32-N, R-8-W</u> Sec. 27: W/2SW/4, SE/4SW/4	120.00	Royalty; Working Intere Northwest P <sup>:</sup> ORRI;	est: ipeline Corp., Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% 5.000000% 100.000000%	1.034297%
				TRACT_18			
SF 080412-A	<u>T-32-N, R-8-W</u> Sec. 27: NW/4, NE/4SW/4	200.00	Royalty; Working Intere El Paso Natu ORRI;	est: ural Gas Co., Total	12.500000% 85.000000% 2.500000% 100.000000%	12.500000% 85.000000% <u>2.500000%</u> 100.000000%	1.723829 <b>%</b>
				TRACT 19			
SF 080854	<u>T-31-N, R-8-W</u> Sec. 24: W/2NW/4, SW/4	240.00	Royalty; Working Intere Northwest Pi ORRI;	est: ipeline Corp., Total	12.500000% 82.500000% 5.000000%	12.500000% 82.500000% 5.000000% 100.000000%	2.068594 <b>%</b>

Effective July 1, 1983

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SERIAL NUMBER		iumber Acres	OWNERSHIP DRILLING	BLOCK PERC	PERCENTAGE ENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			TRAC	21 20		
SF 081089	<u>T-31-N, R-8-W</u> Sec. 23: E/2	320.00	Royalty; Working Interest: Northwest Pipeline ORRI; To	Corp., 82.5	00000% 12.500000%   00000% 82.500000%   00000% 5.000000%   00000% 100.000000%	
			TRAC	<u>CT 21</u>		
NM-03402	<u>T-31-N, R-8-W</u> Sec. 15: SW/4, SW/4SE/4 Sec. 22: All	840.00	Royalty; Working Interest: Northwest Pipeline ORRI; To	Corp., 82.50	00000% 12.500000%   00000% 82.500000%   00000% 5.000000%   00000% 100.000000%	
			TRAC	<u>ct 24</u>		
E12044	<u>T-31-N, R-8-W</u> Sec. 16: NW/4NE/4, SE/4NE/4, NW/4, NE/4SW/4, SW/4SW/4, N/2SE/4	400.00	Royalty; Working Interest: Northwest Pipeline ORRI; To	Corp., 82.50	00000% 12.500000%   00000% 82.500000%   00000% 5.000000%   00000% 100.000000%	
			TRAC	21 26		
E-3704-3	<u>T-31-N, R-8-₩</u> Sec. 16: SW/4SE/4	40.00	Royalty; Working Interest: Northwest Pipeline ORRI; To	Corp., 82.50	00000% 12.500000% 00000% 82.500000% 00000% 5.00000% 00000% 100.00000%	

NORTHWEST PIPELINE CORPORATION UNIT AREA EXPANSION SCHEDULE

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SERIAL NUMBER		NUMBER ACRES	OWNERSHIP DRIL	LLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
				TRACT 28			
E-3868-3	<u>T-31-N, R-8-W</u> Sec. 16: SW/4NE/4	40.00	Royalty; Working Interest Northwest Pipe ORRI;		12.500000% 82.500000% <u>5.000000%</u> 100.000000%	12.500000% 82.500000% <u>5.000000%</u> 100.000000%	. 344766%
				TRACT 31			
E-5113-70	<u>T-31-N, R-8-W</u> Sec. 16: NW/4SW/4	40.00	Royalty; Working Interest Northwest Pipe ORRI;		12.500000% 81.500000% 6.000000%	12.500000% 81.500000% 6.000000%	. 344 766 <b>%</b>
				TRACT 34			
E-5382	<u>T-31-N, R-8-₩</u> Sec. 16: NE/4NE/4	40.00	Royalty; Working Interest Texaco, Inc., ORRI;	t: Total	12.500000% 87.500000% 000000% 100.000000%	12.500000% 87.500000% 0.000000% 100.000000%	. 344766%
				TRACT 38			
B-11240-71	<u>1-31-N, R-8-₩</u> Sec. 16: SE/4SW/4	40.00	Royalty; Working Interest Northwest Pipe ORRI;		12.500000% 85.000000% <u>2.500000%</u> 100.000000%	12.500000% 85.000000% 2.500000% 100.000000%	. 344766 <b>%</b>

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SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
				TRACT 38-A			
B-11240-70	<u>T-31-N, R-8-W</u> Sec. 16: SE/4SE/	40.00	Royalty; Working Inf	terest:	12.500000%	12.500000%	. 344766%
			Northwest	t Pipeline Corp.,	82.500000%	82.50000%	
			ORRI;		5.00000%	5.00000%	
				Total	100.00000%	100.00000%	

# NORTHWEST PIPELINE CORPORATION UNIT AREA EXPANSION SCHEDULE

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### SCHEDULE XX NINETEENTH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION SAN JUAN 32-8 UNIT AREA

# RECAPITULATION

## Description of Lands in Participating Area:

Township 32 North, Range 8 West, N.M.P.M.

Sections 17, 22, 27, 29, 34: W/2 Sections 19, 30, 35: E/2 Sections 14, 15, 20, 33: All

#### Township 31 North, Range 8 West, N.M.P.M.

Section 14: W/2 Sections 3, 9, 10, 15, 16, 21, 22, 23, 24: All Section 4: N/2, SE/4, NE4/SW/4, S/2SW/4

Total Number of Acres in Participating Area: 11,802.08

Total Number of Acres Committed to Participating Area: 11,602.08

Total Number of Acres Not Committed to Participating Area: 200.00

Effective July 1, 1983

## Pertinent Data San Juan 32-8 Unit Well #46 (MV)

Drilling Block

Acres

T32N R8W Section 14 E/2 Section 14 320

The San Juan 32-8 #46 well is located 1820 feet from the north line and 790 feet from the east line, section 14, Township 32 north, Range 8 west, N.M.P.M., San Juan county, New Mexico. This well was spudded on Sep. 5, 1981 and is a dually completed well. The Mesa Verde formation was completed on Jan. 5, 1982. This formation was perforated with 24 holes at the following depths:

# 5940' to 6330'

These perforations were treated with 10,000 gallons pad water followed by 80,000 pounds of 20/40 sand in fracturing fluid. The well was initially tested with a positive choke in a three hour test. The SITP was 1154 psig with a flowing pressure of 118 psig producing at a rate of 1651 MCFD. The calculated AOF was 1721 MCFD.

This well has been determined to be commercial.

NORTHWEST PIPELINE CORPORATION GAS RESERVES DEPARTMENT ECONOMIC STUDY COMMERCIALITY OF SJU 32-8 #46 MV

WORKING INT. B/PAYOUT.....%100.0ANNUAL COST INFLATION.....%0.0WORKING INT. A/PAYOUT.....%100.0ANNUAL PRICE INFLATION.....%0.0INCOME TAX......%48.0NEG INC TAX USED AS FUTURE CREDIT UNIT OF PRODUCTION DEPRECIATION

GAS PRODUCTION FROM SJU 32-8 #46 

FRI MAY 9, 1986 12:45:27 PM

0.0

	TIAL NTH	MCF/D	% DECLINE	TO MCF/D	ENDIN MONT		
	19 25 31 37 43 49 55 61 67 73 79 85 91 97 103 258	267.4 108.4 80.5 57.0 58.6 52.7 48.4 44.9 42.1 39.8 37.8 36.1 34.6 33.3 32.1 15.0	83.6 44.9 30.7 23.5 19.1 15.7 13.9 12.1 10.6 9.8 8.8 8.1 7.4 7.1 5.7 100.0	108.4 80.5 57.0 58.6 52.7 48.4 44.9 42.1 39.8 37.8 36.1 34.6 33.3 32.1 15.0 0.0	2 3 4 4 5 6 6 7 7 7 8 9 9 10 25 25 25 25 25 5	1 7 3 9 5 1 7 3 9 9 5 1 7 3 9 9 5 1 1 7 3 8	
YEAR	PRICE \$/ MCF		ANNUAL MCF	ROY	ALTY MCF	REVENUE ROYALTY	
1981 1982 1983 1984 1985 1986 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999	3.22 3.22 3.22 3.22 3.22 3.22 3.22 3.22	0 95 85 60 42 38 35 30 27 25 24 21 20 19 18	0. 34640. 31188. 21824. 17861. 15496. 13887. 12697. 11780. 11083. 10449. 9851. 9288. 8756. 8255. 7783. 7338. 6918. 6523.	1 1 1 1 1 1 1 1 1 1 1 1 1	0. 1330. 1330. 13899. 1233. 1233. 136. 137. 136. 137. 161. 032. 973. 161. 032. 973. 815. 815.		0. 98. 88. 61. 50. 44. 39. 36. 33. 31. 29. 28. 26. 25. 23. 22. 21. 19. *8.

2000	3.22	17	6149.	769.	17.
2001	3.22	16	5798.	725.	16.
TOTAL.		• • • • •	257557.	32195.	726.

										0.0 0.0
*·	ISCOUNT *RATE** ** % ** 19.9 12.8 15.0	***** BEFORE	SENT VA \$1000 * TAX A 0. 36.	****** Fter ta	** ***I XX BEFO	OUNTED PR NVESTMENT RE TAX 0.00 0.14	RATIO* AFTER T 0.	AX RATE O RATE	OF RETU OF RETU	
+	INCOME *\$1000 **NET* *****	**PROJEC ***** CAPI- *TAL*	***** *****	AD.V. SEV.	***** PROD.	****CASH ***** BEFORE *TAXES	**CUM BEFORE	*****	****** INCOME	00 <b>****</b> ***** AFTER TAXES
1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001	0 98 88 62 50 44 39 36 33 31 29 28 26 25 23 22 21 20 18 17 16	251 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0 8 7 5 4 3 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		- 251 -251 -251 -251 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -25 -23 -27 -15 -15 -15 -15 -15 -15 -15 -15	-251 -163 -86 -33 10 47 79 108 135 160 184 206 226 245 263 280 295 310 323 335 347	76 67 46 31 28 25 23 21 20 19	) 0 12 18 15 13 12 11 10 9 8 8 7 7 6 6 5 5 5	-251 88 77 41 25 22 19 17 16 15 14 13 12 11 11 10 9 9 8 7 7
TOTAL P/	726 AYOUT DUI	251 RING MON'	87 TH 10 OI	58 F YEAR	70 5	347	0	346	166	180

PAYOUT DURING MONTH 10 OF YEAR 5

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Pertinent Data Rattlesnake Canyon Com Well #3 (mv)

Drilling Block

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Acres

T32N R8W Section 20 E/2 Section 20 320

The Rattlesnake Canyon Com #3 well is located 1450 feet from the south line and 1140 feet from the east line, section 20, Township 32 north, Range 8 west, N.M.P.M., San Jaun county, New Mexico. This well was spudded on May 12, 1983. The Mesaverde formation was completed on Jun. 20,1983. The Mesaverde formation was perforated with 92 holes at the following depths:

5334',5336',5338',5339',5340',5341',5342',5343',5344',5406', 5408',5410',5411',5412',5413',5414',5415',5417',5419',5424', 5426',5428',5429',5430',5432',5434',5435',5436',5437',5438', 5495',5497',5501',5502',5504',5405',5506',5507',5508',5588', 5590',5591',5592',5594',5596',5598',5663',5664',5665',5666', 5667',5668',5669',5670',5671',5672',5673',5674',5676',5678', 5680',5684',5686',5688',5690',5692',5694',5700',5702',5726', 5728',5729',5730',5732',5733',5734',5738',5739',5740',5741', 5743',5743',5744',5746',5748',5750',5764',5766',5768',5771', 5773',5743'

These perforations were treated with 167,186 gallons pad water followed by 119,250 pounds of 20/40 sand. The well was tested on Jun. 20, 1983 using a positive choke in a three hour test. The well was tested at a 3451 MCFD flow rate with a calculated AOF of 3572 MCFD. The ISIP was measured at 1059 psig.

This well has been determined to be commercial

# NORTHWEST PIPELINE CORPORATION GAS RESERVES DEPARTMENT ECONOMIC STUDY COMMERCIALITY OF RATTLESN. CNY. #3

WORKING INT. B/PAYOUT%	100.0	ANNUAL COST INFLATION% 0.0
WORKING INT. A/PAYOUT%	100.0	ANNUAL PRICE INFLATION% 0.0
INCOME TAX	48.0	NEG INC TAX USED AS FUTURE CREDIT
UNIT OF PRODUCTION DEPRECIATI	ON	

OVERRIDING ROYALTY	0.0
OPERATING COSTS (\$/MO)	300.0
OPERATING COSTS (% OF PROD).	0.0
TANGIBLE \$ (% OF DRILLING \$)	36.9

INITIAL MONTH	MCF/D	% DECLINE	TO MCF/D	END I NG MONTH
12	505.0	57.8	470.0	13
13	470.0	100.0	225.0	14
14	225.0	96.8	169.0	15
15	169.0	89.6	140.0	16
16	140.0	100.0	25.0	17
17	25.0	48.8	16.0	25
25	16.0	-193.7	47.0	37
37	47.0	-2118.2	102.0	40
40	102.0	9.6	17.0	252
252	17.0	100.0	0.0	253
PR	ICE AVO	g Ann	UAL RO	YALTY RE

YEAR	PRICE \$/ MCF	AVG MCF/D	ANNUAL MCF	ROYALTY MCF	REVENUE AFTER ROYALTY \$1000
1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1995 1995 1996 1997 1998 1999	3.22 3.22 3.22 3.22 3.22 3.22 3.22 3.22	42 97 27 90 90 82 74 67 60 54 49 44 40 36 33 30 27	15371. 35608. 10043. 32700. 32972. 29792. 26919. 24323. 21977. 19857. 17942. 16212. 14648. 13235. 11959. 10805. 9763.	1921. 4451. 1255. 4087. 4122. 3724. 3365. 3040. 2747. 2482. 2243. 2026. 1831. 1654. 1495. 1351. 1220.	43. 100. 28. 92. 93. 84. 76. 69. 62. 56. 51. 46. 41. 37. 34. 30. 28.
2000 2001 2002 2003 TOTAL	3.22 3.22 3.22 3.22 3.22	24 22 20 18	8822. 7971. 7202. 6507. 374623.	1103. 996. 900. 813. 46828.	25. 22. 20. 18. 1056.
TOTAL		• • • • • • • • • • • • • • • • • • •	374623.	46828.	1056.

# MON MAY 12, 1986 11:16:45 AM

GAS R Comme W W	ESERVES RCIALITY ORKING ORKING NCOME TA	PELINE CO DEPARTME OF RATT INT. B/PA INT. A/PA AX PRODUCTIO	NT ECON LESN. C YOUT YOUT	ANNUAL	PRICE	11 VFLATION		0.0 0.0		
*	ISCOUNT *RATE** ** % ** 25.8 17.2 15.0	***** BEFORE	\$1000 *		* ***I X BEFO	OUNTED PR NVESTMENT RE TAX 0.00 0.40	RATIO* AFTER 1 0.	AX RATE	OF RETU OF RETU	RN B.T. RN A.T.
4 4	INCOME *\$1000 **NET* *****	**PROJEC ***** CAPI- *TAL*	****	AD.V.	**** PROD.	****CASH ***** BEFORE *TAXES	**CUM BEFORE	****	****** INCOME	00**** ***** AFTER TAXES
1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003	43 100 28 92 93 84 76 69 62 56 51 46 41 37 34 30 28 25 22 20 18		- 4 10 39 99 8 7 7 6 5 5 4 4 4 3 3 2 2 2 2	3 8 2 7 7 7 6 5 5 4 4 4 3 3 3 2 2 2 2 2 2 2 1		-238 89 22 81 82 74 66 59 53 48 43 34 31 27 24 22 19 17 15 13	-238 -149 -127 -46 36 110 176 236 289 337 380 418 453 484 511 535 557 576 593 608 622	79 20 73 66 59 53 42 38 34		-238 89 22 66 47 42 38 34 31 28 25 22 20 18 16 14 13 11 10 9 8
TOTAL	1056 VYOUT DU	278 RING MONT	103 TH 7 OF	84 F YEAR	73 5	622	0	622	299	323

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