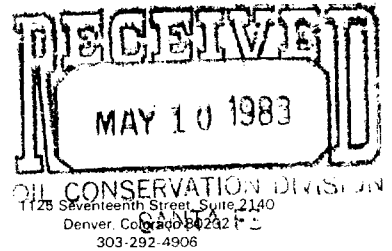


NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT

May 6, 1983



Assistant Area Oil and Gas Supervisor  
Minerals Management Service  
Western National Bank Building  
505 Marquette NW, Suite 815  
Albuquerque, New Mexico 87102

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

State of New Mexico  
Oil Conservation Commission  
Attn: Mr. Joe Ramey  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: San Juan 32-7 Unit #14-08-001-441  
San Juan County, New Mexico  
1983 Drilling Program

Gentlemen:

By letter dated March 29, 1982, Northwest Pipeline Corporation, as Unit Operator, filed a Drilling Program for the captioned Unit providing for the drilling of one (1) Mesaverde Well, one (1) Pictured Cliffs Well, and one (1) Mesaverde/Pictured Cliffs Well. All wells were timely drilled.

As of this date, the total number of wells drilled in the San Juan 32-7 Unit on acreage committed to the Unit is as follows:

Fruitland, commercial	2
Dual Fruitland/Pictured Cliffs, commercial	1
Pictured Cliffs, commercial	6
Pictured Cliffs, commerciality undetermined	6
Pictured Cliffs, plugged and abandoned	1
Pictured Cliffs/Mesaverde, commerciality undetermined	5
Mesaverde, commercial	26
Mesaverde, commerciality undetermined	4
Mesaverde, plugged and abandoned	2
Dual Mesaverde/Dakota:	
commercial:	1
plugged back to Mesaverde	1
Noncommercial in Dakota	2
Dakota, commercial	4
Dakota, commerciality undetermined	12
Dakota, noncommercial	2
Total	75

Assistant Area Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
San Juan 32-7 Unit  
May 6, 1983  
Page 2

Pursuant to Section 10 of the San Juan 32-7 Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, has contacted all of the Working Interest Owners and has received the necessary concurrence to propose the drilling of the following additional well during the calendar year 1983:

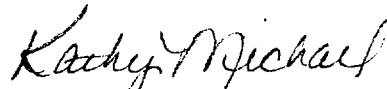
<u>Well Number</u>	<u>Location</u>	<u>Formation</u>
#82 Com	T32N-R7W Sec. 7: Lots 8,9, SE/4SE/4 Sec. 18: Lots, 5,6,7, E/2NE/4, SW/4NE/4 and that part of Tract 55 lying in Sections 7 and 18	MV

Northwest Pipeline Corporation, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances and any other wells deemed necessary or which are requested by the Unit Operator or the Working Interest Owners.

If this Drilling Program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided on the attached sheet and return an approved copy to Northwest Pipeline Corporation.

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

Very truly yours,



Kathy Michael  
Supervisor/Land Department

KM:bs  
Attachment  
CC: Working Interest Owners

Assistant Area Oil and Gas Supervisor  
Commissioner of Public Lands  
Oil Conservation Commission  
San Juan 32-7 Unit  
May 6, 1983  
Page 3

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

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

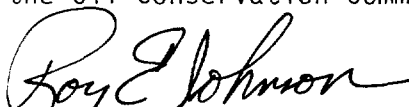
Date \_\_\_\_\_

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

Commissioner of Public Lands  
Subject to like approval by the  
Minerals Management Service and  
the Oil Conservation Commission

Date \_\_\_\_\_

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

  
Oil Conservation Commission  
Subject to like approval by the  
Minerals Management Service and  
the Commissioner of Public Lands

Date 5-10-83

The foregoing approvals are for the 1983 Drilling Program for the San Juan 32-7 Unit #14-08-001-441.

SAN JUAN 32-7 UNIT  
WORKING INTEREST OWNERS

Mr. J. Glenn Turner, Jr.  
1700 Mercantile National Bank Building  
Dallas, Texas 75201

Mr. Fred E. Turner  
One Energy Square - Suite 852  
4925 Greenville Avenue  
Dallas, Texas 75206

Elizabeth T. Calloway  
4801 St. Johns Drive  
Dallas, Texas 75206

Mercantile National Bank of Dallas, Trustee  
Mary Frances Turner, Jr.  
Personal Trust Department  
P. O. Box 225415  
Dallas, Texas 75206

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

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

Phillips Petroleum Company  
Attn: M. K. Study  
8055 E. Tufts Avenue Parkway  
Denver, Colorado 80237

Amoco Production Co.  
Attn: J. C. Burnside  
1670 Broadway - Suite 1914  
Amoco Building  
Denver, Colorado 80202

NORTHWEST PIPELINE CORPORATION

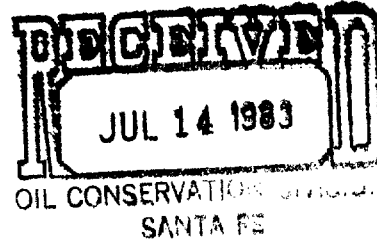
LAND DEPARTMENT

June 23, 1983

1125 Seventeenth Street, Suite 2140  
Denver, Colorado 80202  
303-292-4906

Case #420

Assistant Area Oil and Gas Supervisor  
Minerals Management Service  
Western National Bank Building  
505 Marquette NW, Suite 815  
Albuquerque, New Mexico 87102



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

State of New Mexico  
Oil Conservation Commission  
Attn: Mr. Joe Ramey  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: San Juan 32-7 Unit #14-08-001-441  
San Juan County, New Mexico  
NOTICE OF COMPLETION OF  
ADDITIONAL WELL  
Mesaverde Formation

Gentlemen:

Pursuant to the provisions of Section 11(a) of the San Juan 32-7 Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, has determined that the following described well, which has been completed within the Mesaverde Formation Participating Area, is capable of producing unitized substances in paying quantities from the Mesaverde Formation.

The well data is as follows:

The San Juan 32-7 #27A Well is located 900 feet from the North Line and 1790 feet from the West Line, Section 36, Township 32 North, Range 7 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on August 2, 1981. The Mesaverde Formation was completed on February 5, 1982 in a dual completion with the Pictured Cliffs Formation. The Mesaverde Formation was perforated with 18 holes at the following depths:

5520' to 5868'

Minerals Management Service  
Commissioner of Public Lands  
Oil Conservation Commission  
June 23, 1983  
Page 2

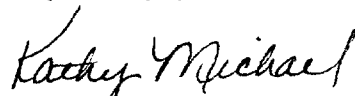
These perforations were treated with 67,714 gallons pad water followed by 80,000 pounds of 20/40 sand. This well was initially tested using a positive choke in a three hour test. The SITP was 1129 psig with a flowing tubing pressure of 227 psig producing at a rate of 3028 MCFD. The calculated AOF was 3523 MCFD.

Since this well was drilled within the existing Mesaverde Formation Participating Area, the Participating Area is not affected by virtue of this commercial well and the percentages of participation remain the same.

Inasmuch as this needs no official approval, no provision is made therefore, and in the absence of disapproval, this determination shall be effective as of the date the subject well was tested.

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

Very truly yours,

A handwritten signature in cursive script that reads "Kathy Michael".

Kathy Michael  
Supervisor/Land Department

KM:bs  
Attachment  
CC: Working Interest Owners

SAN JUAN 32-7 UNIT  
WORKING INTEREST OWNERS

Mr. J. Glenn Turner, Jr.  
1700 Mercantile National Bank Building  
Dallas, Texas 75201

Mr. Fred E. Turner  
One Energy Square - Suite 852  
4925 Greenville Avenue  
Dallas, Texas 75206

Elizabeth T. Calloway  
4801 St. Johns Drive  
Dallas, Texas 75206

Mercantile National Bank of Dallas, Trustee  
Mary Frances Turner, Jr.  
Personal Trust Department  
P. O. Box 225415  
Dallas, Texas 75206

Phillips Oil Company  
Attn: Debbie Shell  
Meadows Building  
Dallas, Texas 75206

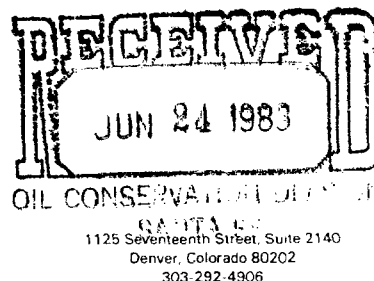
El Paso Natural Gas Company  
Attn: Mr. James R. Permenter  
P. O. Box 1492  
El Paso, Texas 79978

Phillips Petroleum Company  
Attn: M. K. Study  
8055 E. Tufts Avenue Parkway  
Denver, Colorado 80237

Amoco Production Co.  
Attn: J. C. Burnside  
1670 Broadway - Suite 1914  
Amoco Building  
Denver, Colorado 80202

NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT



June 20, 1983

*Case #420*

Assistant Area Oil and Gas Supervisor  
Minerals Management Service  
Western National Bank Building  
505 Marquette NW, Suite 815  
Albuquerque, New Mexico 87102

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

State of New Mexico  
Oil Conservation Commission  
Attn: Mr. Joe Ramey  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Re: San Juan 32-7 Unit #14-08-001-441  
San Juan County, New Mexico  
1983 Drilling Program

Gentlemen:

The 1983 Drilling Program filed on May 6, 1983, for the San Juan 32-7 Unit has been approved by the regulatory agencies as follows:

Minerals Management Service	6/16/83
Commissioner of Public Lands	5/20/83
Oil Conservation Commission	5/10/83

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

Very truly yours,

*Kathy Michael*  
Kathy Michael  
Supervisor/Land Department

KM:bs  
Attachment  
CC: Working Interest Owners



SAN JUAN 32-7 UNIT  
WORKING INTEREST OWNERS

Mr. J. Glenn Turner, Jr.  
1700 Mercantile National Bank Building  
Dallas, Texas 75201

Mr. Fred E. Turner  
One Energy Square - Suite 852  
4925 Greenville Avenue  
Dallas, Texas 75206

Elizabeth T. Calloway  
4801 St. Johns Drive  
Dallas, Texas 75206

Mercantile National Bank of Dallas, Trustee  
Mary Frances Turner, Jr.  
Personal Trust Department  
P. O. Box 225415  
Dallas, Texas 75206

Phillips Oil Company  
Attn: Debbie Shell  
Meadows Building  
Dallas, Texas 75206

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

Phillips Petroleum Company  
Attn: M. K. Study  
8055 E. Tufts Avenue Parkway  
Denver, Colorado 80237

Amoco Production Co.  
Attn: J. C. Burnside  
1670 Broadway - Suite 1914  
Amoco Building  
Denver, Colorado 80202

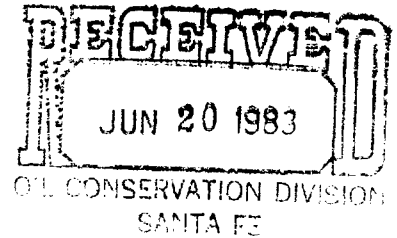


IN REPLY  
REFER TO:

# United States Department of the Interior

BUREAU OF LAND MANAGEMENT

505 Marquette Avenue N.W., Suite 815  
Albuquerque, New Mexico 87102



JUN 1983

Northwest Pipeline Corporation  
Attention: Kathy Michael  
1125 Seventeenth Street, Suite 2140  
Denver, Colorado 80202

Gentlemen:

An approved copy of your 1983 plan of development for the San Juan 32-7 unit area, San Juan County, New Mexico, is enclosed. Such plan, proposing to drill one Mesaverde well during 1983 was approved on this date subject to like approval by the appropriate officials of the State of New Mexico.

Sincerely yours,

James W. Shelton  
Assistant District Manager  
for Minerals

Enclosure

cc:  
Comm. of Pub. Lands  
NMOCD  
Farmington RA (w/encl.)



JIM BACA  
COMMISSIONER

# State of New Mexico



*Case  
#20*

## Commissioner of Public Lands

May 20, 1983

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

Northwest Pipeline Corporation  
1125 Seventeenth Street, Suite 2140  
Denver, Colorado 80202

Re: 1983 Drilling Program  
San Juan 32-7 Unit  
San Juan County, New Mexico

ATTENTION: Kathy Michael

Gentlemen:

The Commissioner of Public Lands has this date approved your 1983 Drilling Program for the San Juan 32-7 Unit, San Juan County, New Mexico. Such program calls for the drilling of the Unit Com Well No. 82 to test the Mesaverde formation. Our approval is subject to like approval by the New Mexico Oil Conservation Division and the Bureau of Land Management.

Enclosed is an approved copy for your files.

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

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY:  
RAY D. GRAHAM, Director  
Oil and Gas Division  
AC 505/827-5744

JB/RDG/pm  
encls.

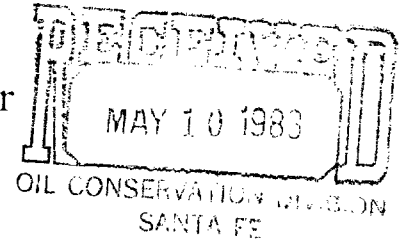
cc: OCD-Santa Fe, New Mexico  
BLM-Albuquerque, New Mexico



IN REPLY  
REFER TO:

## United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
505 Marquette Avenue N. W., Suite 815  
Albuquerque, New Mexico 87102



MAY 3 1983

Northwest Pipeline Corporation  
Attention: Kathy Michael  
1125 Seventeenth Street, Suite 2140  
Denver, Colorado 80202

Gentlemen:

Enclosed are copies of the amended eighteenth and nineteenth revisions to the Mesaverde participating area, notice of completion of additional well, and twentieth revision to the Mesaverde participating area, San Juan 32-7 Unit, San Juan County, New Mexico. These revisions and notice are accepted for record on this date. The twentieth revision is effective December 31, 1981.

Sincerely yours,

(Orig. Signed) - ~~(Signature)~~ JAMES W. SHELTON

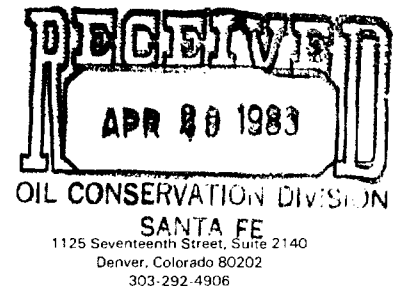
James W. Shelton  
Assistant District Manager  
for Minerals Resources

Enclosures

cc:  
NMOCD ✓

NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT



April 18, 1983

Assistant Area Oil and Gas Supervisor  
Minerals Management Service  
Western National Bank Building  
505 Marquette NW, Suite 815  
Albuquerque, New Mexico 87102

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

State of New Mexico  
Oil Conservation Commission  
Attn: Mr. Joe Ramey  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: San Juan 32-7 Unit #14-08-001-441  
San Juan County, NM  
NOTICE OF COMPLETION OF  
ADDITIONAL WELLS  
MESAVERDE FORMATION

Gentlemen:

Pursuant to the provisions of Section 11(a) of the San Juan 32-7 Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, has determined that the following described wells, which have been completed within the Mesaverde Formation Participating Area, are capable of producing unitized substances in paying quantities from the Mesaverde Formation.

The well data is as follows:

The San Juan 32-7 #41A Well is located 1085 feet from the South Line and 1820 feet from the West Line, Section 7, Township 32 North, Range 7 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on August 26, 1981. The Mesaverde Formation was completed on December 11, 1981 in a dual completion with the Pictured Cliffs Formation. The Mesaverde Formation was perforated with 20 holes at the following depths:

5326', 5332', 5368', 5398', 5438', 5596', 5604',  
5614', 5630', 5633', 5636', 5639', 5642', 5645',  
5648', 5651', 5654', 5657', 5674', 5684'

These perforations were treated with 77,090 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 1111 psig with a flowing pressure of 203 psig producing at a rate of 2723 MCFD. The calculated AOF was 3072 MCFD.

The San Juan 32-7 #27A Well is located 900 feet from the North Line and 1790 feet from the West Line, Section 36, Township 32 North, Range 7 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on August 2, 1981. The Mesaverde Formation was completed on February 5, 1982 in a dual completion with the Pictured Cliffs Formation. The Mesaverde Formation was perforated with 18 holes at the following depths:

5520' to 5868'

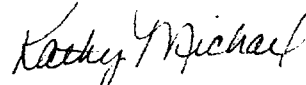
These perforations were treated with 67,714 gallons pad water followed by 80,000 pounds of 20/40 sand. This well was initially tested using a positive choke in a three hour test. The SITP was 1129 psig with a flowing tubing pressure of 227 psig producing at a rate of 3028 MCFD. The calculated AOF was 3523.

Since these wells were drilled within the existing Mesaverde Formation Participating Area, the Participating Area is not affected by virtue of these commercial wells and the percentages of participation remain the same.

Inasmuch as this needs no official approval, pursuant to Section 11 of the San Juan 32-7 Unit Agreement, no provision is made therefore, and in the absence of disapproval, this determination shall be effective as of the date the subject wells were tested.

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

Very truly yours,



Kathy Michael  
Supervisor/Land Department

KM:bs  
Attachment  
CC: Working Interest Owners

SAN JUAN 32-7 UNIT  
WORKING INTEREST OWNERS

Mr. J. Glenn Turner, Jr.  
1700 Mercantile National Bank Building  
Dallas, Texas 75201

Mr. Fred E. Turner  
One Energy Square - Suite 852  
4925 Greenville Avenue  
Dallas, Texas 75206

Elizabeth T. Calloway  
4801 St. Johns Drive  
Dallas, Texas 75206

Mercantile National Bank of Dallas, Trustee  
Mary Frances Turner, Jr.  
Personal Trust Department  
P. O. Box 225415  
Dallas, Texas 75206

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

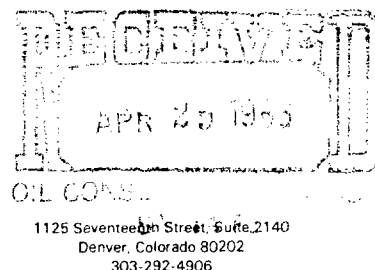
El Paso Natural Gas Company  
Attn: Mr. James R. Permenter  
P. O. Box 1492  
El Paso, Texas 79978

Phillips Petroleum Company  
Attn: M. K. Study  
8055 E. Tufts Avenue Parkway  
Denver, Colorado 80237

Amoco Production Co.  
Attn: M. R. Gile  
1670 Broadway - Suite 1914  
Amoco Building  
Denver, Colorado 80202

NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT



April 18, 1983

Assistant Area Oil and Gas Supervisor  
Minerals Management Service  
Western National Bank Building  
505 Marquette NW, Suite 815  
Albuquerque, NM 87102

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

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

Re: San Juan 32-7 Unit #14-08-001-441  
San Juan County, New Mexico  
NOTICE OF COMPLETION OF  
NON-COMMERCIAL WELLS  
Pictured Cliffs Formation

Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-7 Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, has determined that the following described wells are incapable of producing unitized substances in paying quantities from the Pictured Cliffs Formation.

The well data is as follows:

The San Juan 32-7 #54 Well is located 1010 feet from the north line and 1590 feet from the east line, Section 9, Township 31 North, Range 7 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on March 10, 1980 and completed on June 25, 1980. The Pictured Cliffs Formation was perforated with 17 holes between each of the following depths:

3514' to 3530'



These perforations were treated with 500 gallons of 7 ½% HCL followed by a sand/water fracturing. The well was shut-in with a SIPC of 1154 psig. This is a tubingless completion. 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 398 MCFD with a calculated AOF of 398.

The San Juan 32-7 #76 Well is located 1770 feet from the north line and 1520 feet from the west line, Section 18, Township 32 North, Range 7 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on August 17, 1981 and completed on January 14, 1982 in the Pictured Cliffs Formation at a plug back depth of 5740'. The Pictured Cliffs Formation was perforated with twelve holes between each of the following depths:

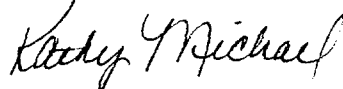
3250' to 3338'

These perforations were treated with 5000 gallons fluid followed by a sand/water fracturing. The well was shut-in with a SIPT of 1537 psig and SIPC of 1437 psig. On January 14, 1982, the well was tested and after flowing for three hours through a 2 3/4 inch variable choke on the 1 1/4 inch tubing, the well gauged 1952 MCFD with a calculated AOF of 1952 MCFD.

Inasmuch as these determinations require no official approval, no provision is made therefor and in the absence of disapproval, these wells will continue to be considered non-commercial subject to the understanding that they may be subsequently admitted to the Pictured Cliffs Participating Area should further operations or testing prove them to be commercial.

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

Very truly yours,



Kathy Michael  
Supervisor/Land Department

KM:bs  
Attachment  
CC: Working Interest Owners

SAN JUAN 32-7 UNIT  
WORKING INTEREST OWNERS

Mr. J. Glenn Turner, Jr.  
1700 Mercantile National Bank Building  
Dallas, Texas 75201

Mr. Fred E. Turner  
One Energy Square - Suite 852  
4925 Greenville Avenue  
Dallas, Texas 75206

Elizabeth T. Calloway  
4801 St. Johns Drive  
Dallas, Texas 75206

Mercantile National Bank of Dallas, Trustee  
Mary Frances Turner, Jr.  
Personal Trust Department  
P. O. Box 225415  
Dallas, Texas 75206

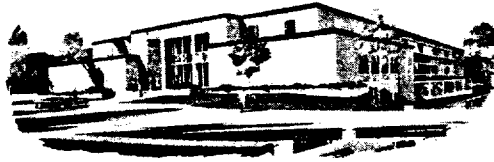
General American Oil Company of Texas  
Attn: Mr. L. E. Dooley  
Meadows Building  
Dallas, Texas 75206

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

Phillips Petroleum Company  
Attn: M. K. Study  
8055 E. Tufts Avenue Parkway  
Denver, Colorado 80237

Amoco Production Co.  
Attn: M. R. Gile  
1670 Broadway - Suite 1914  
Amoco Building  
Denver, Colorado 80202

# State of New Mexico



## Commissioner of Public Lands

March 28, 1983

JIM BACA  
COMMISSIONER

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

Northwest Pipeline Corporation  
1125 Seventeenth Street, Suite 2140  
Denver, Colorado 80202

Re: San Juan 32-7 Unit  
San Juan County, New Mexico  
Twentieth Expanded Participating Area  
Mesaverde Formation  
Effective December 31, 1981

ATTENTION: Kathy Michael

Gentlemen:

This office is in receipt of a new Schedule XXII revised as of March 11, 1983 which includes the entire S $\frac{1}{2}$  of Section 27 in Tract 6 for the above captioned Expanded Participating Area.

Inasmuch as this needs no official approval, we have this date filed this information in our unit file. Enclosed is a copy for your files reflecting the date received in this office.

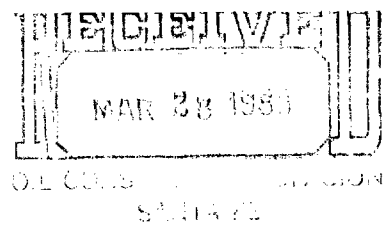
Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY:  
FLOYD O. PRANDO, Assistant Director  
Oil and Gas Division  
AC 505/827-5744

JB/FOP/pm  
encls.

cc: OCD-Santa Fe, New Mexico  
BLM-Albuquerque, New Mexico  
Administration



NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT

March 22, 1983

1125 Seventeenth Street, Suite 2140  
Denver, Colorado 80202  
303-292-4906

Assistant Area Oil and Gas Supervisor  
Minerals Management Service  
Western National Bank Building  
505 Marquette NW, Suite 815  
Albuquerque, New Mexico 87102

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

State of New Mexico  
Oil Conservation Commission  
Attn: Mr. Joe Ramey  
P. O. Box 2088  
Santa Fe, New Mexico 87501

*Case 420*

Re: San Juan 32-7 Unit #14-08-001-441  
San Juan County, New Mexico  
TWENTIETH EXPANDED PARTICIPATING AREA  
MESAVERDE FORMATION  
Effective December 31, 1981

Gentlemen:

On November 1, 1982, we submitted the Twentieth Expanded Participating Area for the San Juan 32-7 Unit Mesaverde Formation.

On January 12, 1983, we furnished you with a corrected Schedule XXII which removed 160 acres from Tract 6 because the 160 acres (the SE $\frac{1}{4}$  of Section 34) is a part of Tract 11. However, it has been brought to our attention that the SE $\frac{1}{4}$  of Section 27 was omitted from Tract 6 at that time.

Therefore, we enclose herewith a new Schedule XXII revised as of March 11, 1983 which includes the entire SE $\frac{1}{4}$  of Section 27 in Tract 6. Working interest percentages have been appropriately adjusted.

A copy of this letter, along with a copy of the corrected Schedule XXII, is being sent to the working interest owners shown on the attached sheet.

Very truly yours,

*Kathy Michael*  
Kathy Michael  
Supervisor/Land Department

Enclosures  
CC: Working Interest Owners

SAN JUAN 32-7 UNIT  
WORKING INTEREST OWNERS

Mr. J. Glenn Turner, Jr.  
1700 Mercantile National Bank Building  
Dallas, Texas 75201

Mr. Fred E. Turner  
One Energy Square - Suite 852  
4925 Greenville Avenue  
Dallas, Texas 75206

Elizabeth T. Calloway  
4801 St. Johns Drive  
Dallas, Texas 75206

Mercantile National Bank of Dallas, Trustee  
Mary Frances Turner, Jr.  
Personal Trust Department  
P. O. Box 225415  
Dallas, Texas 75206

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

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

Phillips Petroleum Company  
Attn: M. K. Study  
8055 E. Tufts Avenue Parkway  
Denver, Colorado 80237

Amoco Production Co.  
Attn: J. C. Burnside  
1670 Broadway - Suite 1914  
Amoco Building  
Denver, Colorado 80202

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASAUVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 1</u>							
SF 078459	T-32N, R-7W Sec. 22: A11	640.00	Royalty; Working Interest; Northwest Pipeline Corp.;		12.500000%	12.500000%	6.439915%
			ORRI;		82.500000%	82.500000%	
			Total		5.000000%	5.000000%	
					<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 2</u>							
SF 078460	T-32N, R-7W Sec. 7: Lots 4, 5, 6 & SE/4SW/4	1573.10	Royalty; Working Interest; Northwest Pipeline Corp.;		12.500000%	12.500000%	15.829108%
			ORRI;		82.500000%	82.500000%	
			Total		5.000000%	5.000000%	
					<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 3</u>							
SF 078472	T-32N, R-7W Sec. 23: SW/4 Sec. 27: N/2 Sec. 28: NE/4 Sec. 29: NE/4NW/4 & SE/4SW/4	720.00	Royalty; Working Interest; Northwest Pipeline Corp.;		12.500000%	12.500000%	7.244904%
			ORRI;		82.500000%	82.500000%	
			Total		5.000000%	5.000000%	
					<u>100.000000%</u>	<u>100.000000%</u>	

Revised March 11, 1983  
Effective December 1, 1981

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASAUVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 5</u>							
SF 078542	T-32N, R-7W Sec. 28: SE/4 Sec. 34: NE/4 Sec. 35: S/2	640.00	Royalty; Working Interest: Northwest Pipeline Corp.; Gen. Am. Oil Co. of Texas; ORRI;		12.500000%	12.500000%	6.439915%
			Total		<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 6</u>							
SF 078543	T-32N, R-7W Sec. 27: S/2 Sec. 33: NE/4 Sec. 35: N/2	800.00	Royalty; Working Interest: Northwest Pipeline Corp.; ORRI;		12.500000%	12.500000%	8.049893%
			Total		<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 7</u>							
SF 078669	T-32N, R-7W Sec. 21: W/2NW/4	80.00	Royalty; Working Interest: Southland Royalty; ORRI;		12.500000%	00.000000%	00.000000%
			Total		<u>100.000000%</u>	<u>00.000000%</u>	
<u>TRACT 8</u>							
NM-33052	T-32N, R-7W Sec. 33: W/2SE/4	80.00	Royalty; Working Interest: Northwest Exploration Co.; ORRI;		12.500000%	00.000000%	00.000000%
			Total		<u>100.000000%</u>	<u>00.000000%</u>	

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASAUVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 10</u>							
SF 078996	T-31N, R-7W	1368.20	Royalty; Working Interest; Northwest Pipeline Corp.;		12.500000%	12.500000%	13.767330%
	Sec. 3: Lots 5, 6,7,8 N/2SE/4, W/2SW/4		ORRI;		82.500000%	82.500000%	
					5.000000%	5.000000%	
				Total	<u>100.000000%</u>	<u>100.000000%</u>	
	Sec. 4: Lots 5, 6,7,8, S/2						
	Sec. 5: Lots 5, 6,7,8, SE/4, E/2SW/4						
	Sec. 8: E/2						
<u>TRACT 11</u>							
SF 078998	T-31N, R-7W	1200.00	Royalty; Working Interest; Northwest Pipeline Corp.;		12.500000%	12.500000%	12.074840%
	Sec. 9: N/2				82.500000%	82.500000%	
	Sec. 17: A11				5.000000%	5.000000%	
	T-32N, R-7W				<u>100.000000%</u>	<u>100.000000%</u>	
	Sec. 33: E/2SE/4						
	Sec. 34: SE/4			Total	<u>100.000000%</u>	<u>100.000000%</u>	
<u>TRACT 15</u>							
NM 05540	T-32N, R-7W	40.00	Royalty; Working Interest; Northwest Pipeline Corp.;		12.500000%	12.500000%	.402495%
	Sec. 9: SW/4SW/4		ORRI;		82.500000%	82.500000%	
					5.000000%	5.000000%	
				Total	<u>100.000000%</u>	<u>100.000000%</u>	



SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASAUERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 16</u>							
E-178-4	T-32N, R-7W Sec. 16: W/2W/2	160.00	Royalty; Working Interest; Unleased; ORRI;		12.500000%	12.500000%	1.609979%
Total					<u>87.500000%</u> <u>00.000000%</u> <u>100.000000%</u>	<u>87.500000%</u> <u>00.000000%</u> <u>100.000000%</u>	
<u>TRACT 17</u>							
E-503-3	T-32N, R-7W Sec. 16: E/2W/2	160.00	Royalty; Working Interest; El Paso Natural Gas ORRI;		12.500000%	12.500000%	1.609979%
Total					<u>65.625000%</u> <u>21.875000%</u> <u>100.000000%</u>	<u>65.625000%</u> <u>21.875000%</u> <u>100.000000%</u>	
<u>TRACT 17-A</u>							
E-503-12	T-32N, R-7W Sec. 32: E/2W/2 Sec. 36: A11	800.00	Royalty; Working Interest; Northwest Pipeline Corp., ORRI;		12.500000%	12.500000%	8.049893%
Total					<u>87.500000%</u> <u>5.000000%</u> <u>100.000000%</u>	<u>87.500000%</u> <u>5.000000%</u> <u>100.000000%</u>	

Revised March 11, 1983  
Effective December 1, 1981

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASAUVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
TRACT 21							
Fee	T-32N, R-7W	732.58	Royalty; Working Interest;		12.500000%	12.500000%	7.371487%
	Sec. 7: Lots 1,2 3 SE/4 & NE/4SW/4		Northwest Pipeline Corp.;		87.500000%	87.500000%	
			ORRI;		00.000000%	00.000000%	
	Sec. 8: Lots 1,2,3 E/2SW/4 & W/2SE/4 & NE/4SE/4		Total		100.000000%	100.000000%	
	Sec. 9: Lot 4 & NW/4SW/4						
	Sec. 18: 13.36 acre tract in NE/4NE/4						
	Sec. 21: W/2NE/4 & E/2NW/4						
TRACT 21-A							
Fee	T-32N, R-7W	1.00	Royalty; Working Interest;		12.500000%	12.500000%	.010062%
	Sec. 7: 1 acre out of SW/4SE/4SE/4		Northwest Pipeline Corp.;		87.500000%	87.500000%	
			ORRI;		00.000000%	00.000000%	
			Total		100.000000%	100.000000%	

Revised March 11, 1983  
Effective December 1, 1981

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASAUVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
TRACT 22							
Fee	T-32N, R-7W	603.73	Royalty; Working Interest;		12.5000000%	12.5000000%	6.074953%
	Sec. 7: 17.09 acres out of E/2SE/4		Northwest Pipeline Corp., ORRI;		84.5000000%	84.5000000%	
	Sec. 18: W/2NE/4 & SE/4NE/4 & SE/4 & 26.64 acre tract in NE/4NE/4		Total		3.0000000%	3.0000000%	
					100.0000000%	100.0000000%	
	Sec. 20: SW/4SW/4						
	Sec. 29: NW/4NW/4 & S/2NW/4 & N/2SW/4 & SW/4SW/4						
TRACT 23							
Fee	T-32N, R-7W	240.00	Royalty; Working Interest;		12.5000000%	12.5000000%	2.414968%
	Sec. 20: E/2SE/4		Northwest Pipeline Corp., ORRI;		87.5000000%	87.5000000%	
	Sec. 21: SW/4		Total		00.0000000%	00.0000000%	
					100.0000000%	100.0000000%	
TRACT 24							
Fee	T-32N, R-7W	160.00	Royalty; Working Interest;		12.5000000%	12.5000000%	1.609979%
	Sec. 32: W/2W/2		Northwest Pipeline Corp., ORRI;		87.5000000%	87.5000000%	
			Total		00.0000000%	00.0000000%	
					100.0000000%	100.0000000%	

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
<u>TRACT 25</u>							
Fee	T-32N, R-7W Sec. 8: Lot 4 W/2SW/4	99.41	Royalty; Working Interest: Northwest Pipeline Corp.; ORRI;		12.500000%	12.500000%	1.000300%
					87.500000%	87.500000%	
					00.000000%	00.000000%	
					<u>100.000000%</u>	<u>100.000000%</u>	
			Total				
<u>TRACT 26</u>							
Fee	T-31N, R-7W Sec. 3: E/2SW/4 S/2SE/4	160.00	Royalty; Working Interest: Palmer Oil and Gas; ORRI;		20.000000%	00.000000%	00.000000%
					80.000000%	00.000000%	
					00.000000%	00.000000%	
					<u>100.000000%</u>	<u>00.000000%</u>	
			Total				
<u>TRACT 28</u>							
Fee	T-31N, R-7W Sec. 10: NW/4	160.00	Royalty; Working Interest: Palmer Oil and Gas; ORRI;		20.000000%	00.000000%	00.000000%
					80.000000%	00.000000%	
					00.000000%	00.000000%	
					<u>100.000000%</u>	<u>00.000000%</u>	
			Total				

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASAUVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

R E C A P I T U L A T I O N

Township 31 North, Range 7 West, N.M.P.M.

Section 3: Lots 5,6,7,8, S/2  
Section 4: Lots 5,6,7,8, S/2  
Section 5: Lots 5,6,7,8, SE/4 & E/2SW/4  
Section 8: E/2  
Section 9: N/2  
Section 10: NW/4  
Section 17: A11

Township 32 North, Range 7 West, N.M.P.M.

Section 7: (Frac.) A11  
Section 8: (Frac.) A11  
Section 9: (Frac.) W/2W/2  
Sections 17,20,21,22,27,35,36: A11  
Sections 16,29,32: W/2  
Section 23: SW/4  
Sections 18,28,33,34: E/2

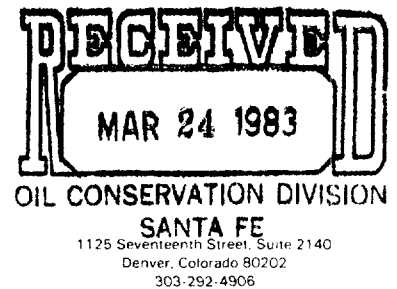
Total Number of Acres in Participating Area: 10,418.02  
Total Number of Acres Committed to Participating Area: 9,938.02  
Total Number of Acres Not Committed to Participating Area: 480.00

Revised March 11, 1983  
Effective December 1, 1981

NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT

March 18, 1983



Assistant Area Oil and Gas Supervisor  
Minerals Management Service  
Western National Bank Building  
505 Marquette NW, Suite 815  
Albuquerque, New Mexico 87102

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

✓ State of New Mexico  
Oil Conservation Commission  
Attn: Mr. Joe Ramey  
P. O. Box 2088  
Santa Fe, NM 87501

Re: San Juan 32-7 Unit #14-08-001-441  
San Juan County, New Mexico  
Dakota Formation

Gentlemen:

On June 22, 1982, pursuant to the provisions of Section 11(b) of the San Juan 32-7 Unit Agreement, Northwest Pipeline Corporation submitted for your approval wells which we determined to be non-commercial in the Dakota Formation.

We are now in the process of re-evaluating some of these wells as to their commerciality and will resubmit our determinations to you and to our Working Interest Owners as soon as our re-evaluations are completed.

Sincerely,

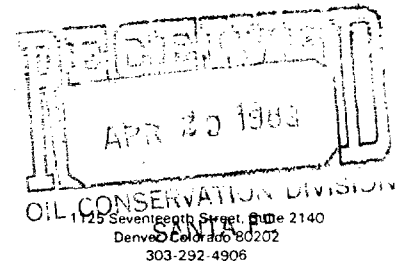
A handwritten signature in cursive script that reads "Kathy Michael".

Kathy Michael  
Supervisor/Land Department

KM:bs

NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT



March 9, 1983

Assistant Area Oil and Gas Supervisor  
Minerals Management Service  
Western National Bank Building  
505 Marquette NW, Suite 815  
Albuquerque, New Mexico 87102

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

State of New Mexico  
Oil Conservation Commission  
Attn: Mr. Joe Ramey  
Post Office Box 2088  
Santa Fe, New Mexico 87501

Re: San Juan 32-7 Unit #14-08-001-441  
San Juan County, NM  
NOTICE OF COMPLETION OF  
NON-COMMERCIAL WELLS  
PICTURED CLIFFS FORMATION

Gentlemen:

Pursuant to the provisions of Section 11(a) of the San Juan 32-7 Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, has determined that the following described wells are not capable of producing unitized substances in paying quantities from the Pictured Cliffs Formation.

The pertinent data is as follows:

The San Juan 32-7 Com #41A Well is located 1085 feet from the South Line and 1820 feet from the West Line, Section 7, Township 32 North, Range 7 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on August 26, 1981. The Pictured Cliffs Formation was completed on December 11, 1981 with dual completion of the Mesaverde Formation. The Pictured Cliffs Formation was perforated with 13 holes at the following depths:

3300', 3303', 3306', 3312', 3321', 3325', 3329',  
3333', 3338', 3342', 3346', 3350', 3354'

These perforations were treated with 54,180 gallons pad water followed by 60,000 pounds of 10/20 sand in fracturing fluid. After fracturing the Formation a flow rate of 50 MCFD was measured.

The San Juan 32-7 Com #27A Well is located 900 feet from the North Line and 1790 feet from the West Line, Section 36, Township 32 North, Range 7 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on August 2, 1981. The Pictured Cliffs Formation was completed on February 5, 1982 with dual completion of the Mesaverde Formation. The Pictured Cliffs Formation was perforated with 13 holes at the following depths:

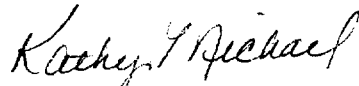
3360' to 3420'

These perforations were treated with 71,190 gallons pad water followed by 50,000 pounds of 10/20 sand. After fracturing, this well had a flow rate of 77 MCFD.

Inasmuch as these determinations require no official approval, no provision is made therefor and in the absence of disapproval, these wells will continue to be considered non-commercial subject to the understanding that they may be subsequently admitted to the Pictured Cliffs Participating Area should further operations or testing prove them to be commercial.

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

Very truly yours,



Kathy Michael  
Supervisor/Land Department

KM:bs  
Attachment  
CC: Working Interest Owners



SAN JUAN 32-7 UNIT  
WORKING INTEREST OWNERS

Mr. J. Glenn Turner, Jr.  
1700 Mercantile National Bank Building  
Dallas, Texas 75201

Mr. Fred E. Turner  
One Energy Square - Suite 852  
4925 Greenville Avenue  
Dallas, Texas 75206

Elizabeth T. Calloway  
4801 St. Johns Drive  
Dallas, Texas 75206

Mercantile National Bank of Dallas, Trustee  
Mary Frances Turner, Jr.  
Personal Trust Department  
P. O. Box 225415  
Dallas, Texas 75206

General American Oil Company of Texas  
Attn: Mr. L. E. Dooley  
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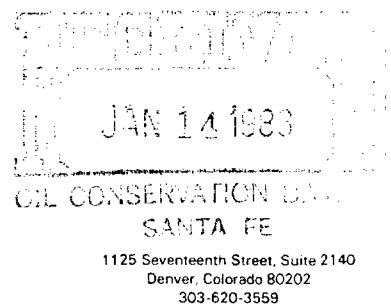
El Paso Natural Gas Company  
Attn: Mr. James R. Permenter  
P. O. Box 1492  
El Paso, Texas 79978

Phillips Petroleum Company  
Attn: M. K. Study  
8055 E. Tufts Avenue Parkway  
Denver, Colorado 80237

Amoco Production Co.  
Attn: M. R. Gile  
1670 Broadway - Suite 1914  
Amoco Building  
Denver, Colorado 80202

NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT



January 12, 1983

*Case # 420*

Assistant Area Oil and Gas Supervisor  
Minerals Management Service  
Western National Bank Building  
505 Marquette NW, Suite 815  
Albuquerque, NM 87102

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

✓ State of New Mexico  
Oil Conservation Commission  
Attn: Mr. Joe Ramey  
P. O. Box 2088  
Santa Fe, NM 87501

Re: San Juan 32-7 Unit #14-08-001-441  
San Juan County, New Mexico  
Twentieth Expanded  
Participating Area  
Mesaverde Formation  
Effective December 1, 1981

Gentlemen:

On November 1, 1982, we submitted for approval the Twentieth Expanded Participating Area for the San Juan 32-7 Unit Mesaverde Formation. Since that time, it has been brought to our attention that we inadvertently included the same acreage in two separate tracts.

Enclosed you will find the corrected Expansion Schedule which shows that we have removed 160 acres from Tract 6.

A copy of this letter along with a copy of the corrected Expansion Schedule is being sent to the Working Interest Owners shown on the attached sheet.

Sincerely,

Kathy Michael  
Supervisor/Land Department

KM:bs  
enclosures  
CC: Working Interest Owners

SAN JUAN 32-7 UNIT  
WORKING INTEREST OWNERS

Mr. J. Glenn Turner, Jr.  
1700 Mercantile National Bank Building  
Dallas, Texas 75201

Mr. Fred E. Turner  
One Energy Square - Suite 852  
4925 Greenville Avenue  
Dallas, Texas 75206

Elizabeth T. Calloway  
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Mercantile National Bank of Dallas, Trustee  
Mary Frances Turner, Jr.  
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Attn: Mr. L. E. Dooley  
Meadows Building  
Dallas, Texas 75206

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

Phillips Petroleum Company  
Attn: M. K. Study  
8055 E. Tufts Avenue Parkway  
Denver, Colorado 80237

Amoco Production Co.  
Attn: M. R. Gile  
1670 Broadway - Suite 1914  
Amoco Building  
Denver, Colorado 80202

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
SF 078459	T-32N, R-7W Sec. 22: A11	640.00	TRACT 1			
			Royalty; Working Interest: Northwest Pipeline Corp.;	12.5000000%	12.5000000%	6.545292%
			ORRI;	82.5000000%	82.5000000%	
				5.0000000%	5.0000000%	
			Total	100.0000000%	100.0000000%	
SF 078460	T-32N, R-7W Sec. 7: Lots 4, 5, 6 & SE/4SW/4 Sec. 8: SE/4SE/4 Sec. 17: A11 Sec. 20: N/2, N/2SW/4, SE/4SW/4, W/2, SE/4 Sec. 21: SE/4, E/2NE/4	1573.10	TRACT 2			
			Royalty; Working Interest: Northwest Pipeline Corp.;	12.50000000%	12.5000000%	16.088124%
			ORRI;	82.50000000%	82.5000000%	
				5.00000000%	5.0000000%	
			Total	100.00000000%	100.0000000%	
SF 078472	T-32N, R-7W Sec. 23: SW/4 Sec. 27: N/2 Sec. 28: NE/4 Sec. 29: NE/4NW/4 & SE/4SW/4	720.00	TRACT 3			
			Royalty; Working Interest: Northwest Pipeline Corp.;	12.5000000%	12.5000000%	7.363454%
			ORRI;	82.5000000%	82.5000000%	
				5.0000000%	5.0000000%	
			Total	100.0000000%	100.0000000%	

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 5						
SF 078542	T-32N, R-7W Sec. 28: SE/4 Sec. 34: NE/4 Sec. 35: S/2	640.00	Royalty; Working Interest: Northwest Pipeline Corp.; Gen. Am. Oil Co. of Texas; ORRI;	12.500000% 61.875000% 20.625000% 5.000000% <u>100.000000%</u>	12.500000% 61.875000% 20.625000% 5.000000% <u>100.000000%</u>	6.545292%
Total						
TRACT 6						
SF 078543	T-32N, R-7W Sec. 27: SW/4 Sec. 33: NE/4 Sec. 35: N/2	640.000	Royalty; Working Interest: Northwest Pipeline Corp.; ORRI;	12.500000% 82.500000% 5.000000% <u>100.000000%</u>	12.500000% 82.500000% 5.000000% <u>100.000000%</u>	6.545292%
Total						
TRACT 7						
SF 078669	T-32N, R-7W Sec. 21: W/2NW/4	80.00	Royalty; Working Interest: Southland Royalty; ORRI;	12.500000% 87.500000% 00.000000% <u>100.000000%</u>	00.000000% 00.000000% 00.000000% <u>00.000000%</u>	00.000000%
Total						
TRACT 8						
NM-33052	T-32N, R-7W Sec. 33: W/2SE/4	80.00	Royalty; Working Interest: Northwest Exploration Co.; ORRI;	12.500000% 87.500000% 00.000000% <u>100.000000%</u>	00.000000% 00.000000% 00.000000% <u>00.000000%</u>	00.000000%
Total						

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 10						
SF 078996	T-31N, R-7W	1368.20	Royalty;	12.500000%	12.500000%	13.992608%
	Sec. 3: Lots 5, 6,7,8		Working Interest:			
	N/2SE/4, W/2SW/4		Northwest Pipeline Corp.;	82.500000%	82.500000%	
			ORRI;	5.000000%	5.000000%	
			Total	100.000000%	100.000000%	
	Sec. 4: Lots 5, 6,7,8, S/2					
	Sec. 5: Lots 5, 6,7,8,					
	SE/4, E/2SW/4					
	Sec. 8: E/2					
TRACT 11						
SF 078998	T-31N, R-7W	1200.00	Royalty;	12.500000%	12.500000%	12.272423%
	Sec. 9: N/2		Working Interest:			
	Sec. 17: A11		Northwest Pipeline Corp.;	82.500000%	82.500000%	
	T-32N, R-7W		ORRI;	5.000000%	5.000000%	
	Sec. 33: E/2SE/4		Total	100.000000%	100.000000%	
	Sec. 34: SE/4					
TRACT 15						
NM 05540	T-32N, R-7W	40.00	Royalty;	12.500000%	12.500000%	.409081%
	Sec. 9: SW/4SW/4		Working Interest:			
			Northwest Pipeline Corp.;	82.500000%	82.500000%	
			ORRI;	5.000000%	5.000000%	
			Total	100.000000%	100.000000%	

Effective December 1, 1981

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASAUERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
E-178-4	T-32N, R-7W Sec. 16: W/2W/2	160.00	TRACT 16			
			Royalty;	12.500000%	12.500000%	1.636323%
			Working Interest;	87.500000%	87.500000%	
			Unleased;	00.000000%	00.000000%	
			ORRI;	100.000000%	100.000000%	
			Total			
E-503-3	T-32N, R-7W Sec. 16: E/2W/2	160.00	TRACT 17			
			Royalty;	12.500000%	12.500000%	1.636323%
			Working Interest;	65.625000%	65.625000%	
			El Paso Natural Gas	21.875000%	21.875000%	
			ORRI;	100.000000%	100.000000%	
			Total			
E-503-12	T-32N, R-7W Sec. 32: E/2W/2 Sec. 36: A11	800.00	TRACT 17-A			
			Royalty;	12.500000%	12.500000%	8.181616%
			Working Interest;	82.500000%	82.500000%	
			Northwest Pipeline Corp.,	5.000000%	5.000000%	
			ORRI;	100.000000%	100.000000%	
			Total			

Effective December 1, 1981

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASAUVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 21						
Fee	T-32N, R-7W	732.58	Royalty;		12.500000%	7.492110%
	Sec. 7: Lots 1,2		Working Interest:			
	3 SE/4 &		Northwest Pipeline Corp.;	87.500000%	87.500000%	
	NE/4SW/4		ORRI;	00.000000%	00.000000%	
	Sec. 8: Lots 1,2,3		Total	100.000000%	100.000000%	
	E/2SW/4 & W/2SE/4					
	& NE/4SE/4					
	Sec. 9: Lot 4 & NW/4SW/4					
	Sec. 18: 13.36 acre tract in					
	NE/4NE/4					
	Sec. 21: W/2NE/4 & E/2NW/4					
TRACT 21-A						
Fee	T-32N, R-7W	1.00	Royalty;		12.500000%	.010228%
	Sec. 7: 1 acre out		Working Interest:			
	of		Northwest Pipeline Corp.;	87.500000%	87.500000%	
	SW/4SE/4SE/4		ORRI;	00.000000%	00.000000%	
	Total			100.000000%	100.000000%	



SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 22						
Fee	T-32N, R-7W Sec. 7: 17.09 acres out of E/2SE/4	603.73	Royalty; Working Interest: Northwest Pipeline Corp., ORRI;	12.5000000%	12.5000000%	6.174358%
	Sec. 18: W/2NE/4 & SE/4NE/4 & SE/4 & 26.64 acre tract in NE/4NE/4		Total	84.5000000% 3.0000000% 100.0000000%	84.5000000% 3.0000000% 100.0000000%	
	Sec. 20: SW/4SW/4					
	Sec. 29: NW/4NW/4 & S/2NW/4 & N/2SW/4 & SW/4SW/4					
TRACT 23						
Fee	T-32N, R-7W Sec. 20: E/2SE/4 Sec. 21: SW/4	240.00	Royalty; Working Interest: Northwest Pipeline Corp., ORRI;	12.5000000%	12.5000000%	2.454485%
			Total	87.5000000% 00.0000000% 100.0000000%	87.5000000% 00.0000000% 100.0000000%	
TRACT 24						
Fee	T-32N, R-7W Sec. 32: W/2W/2	160.00	Royalty; Working Interest: Northwest Pipeline Corp., ORRI;	12.5000000%	12.5000000%	1.636323%
			Total	87.5000000% 00.0000000% 100.0000000%	87.5000000% 00.0000000% 100.0000000%	

Effective December 1, 1981

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASAUVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 25						
Fee	T-32N, R-7W Sec. 8: Lot 4 W/2SW/4	99.41	Royalty; Working Interest: Northwest Pipeline Corp.; ORRI; Total	12.5000000% 87.5000000% 00.0000000% <u>100.0000000%</u>	12.5000000% 87.5000000% 00.0000000% <u>100.0000000%</u>	1.0166668%
TRACT 26						
Fee	T-31N, R-7W Sec. 3: E/2SW/4 S/2SE/4	160.00	Royalty; Working Interest: Palmer Oil and Gas; ORRI; Total	20.0000000% 80.0000000% 00.0000000% <u>100.0000000%</u>	00.0000000% 00.0000000% 00.0000000% <u>00.0000000%</u>	00.0000000%
TRACT 28						
Fee	T-31N, R-7W Sec. 10: NW/4	160.00	Royalty; Working Interest: Palmer Oil and Gas; ORRI; Total	20.0000000% 80.0000000% 00.0000000% <u>100.0000000%</u>	00.0000000% 00.0000000% 00.0000000% <u>00.0000000%</u>	00.0000000%

Effective December 1, 1981

SCHEDULE XXII  
TWENTIETH EXPANDED PARTICIPATING AREA FOR THE MEASAUVERDE FORMATION  
SAN JUAN 32-7 UNIT AREA

R E C A P I T U L A T I O N

Township 31 North, Range 7 West, N.M.P.M.  
Section 3: Lots 5,6,7,8, S/2  
Section 4: Lots 5,6,7,8, S/2  
Section 5: Lots 5,6,7,8, SE/4 & E/2SW/4  
Section 8: E/2  
Section 10: NW/4  
Section 17: A11

Township 32 North, Range 7 West, N.M.P.M.  
Section 7: (Frac.) A11  
Section 8: (Frac.) A11  
Section 9: (Frac.) W/2W/2  
Sections 17,20,21,22,27,35,36: A11  
Sections 16,29,32: W/2  
Section 23: SW/4  
Sections 18,28,33,34: E/2

Total Number of Acres in Participating Area: 10,258.02  
Total Number of Acres Committed to Participating Area: 9,778.02  
Total Number of Acres Not Committed to Participating Area: 480.00

Effective December 1, 1981

NORTHWEST PIPELINE CORPORATION

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

November 6, 1978

Mr. James A. Gillham  
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

Energy and Minerals Department  
Oil Conservation Division  
State of New Mexico  
Attention: Mr. Joe Ramey  
Post Office Box 2088  
Santa Fe, New Mexico 87501

no 420

Re: San Juan 32-7 Unit  
No. 14-08-001-441  
San Juan County,  
New Mexico EIGHTEENTH  
EXPANDED PARTICIPATING  
AREA, Mesaverde Formation  
Effective August 1, 1977

NOTICE OF COMPLETION OF  
ADDITIONAL MESAVERDE WELL

Gentlemen:

Pursuant to Section 11(a) of the San Juan 32-7 Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, determined on the date indicated below that the following well which is capable of producing unitized substances in paying quantities from the Mesaverde formation has been completed upon a drilling block containing a portion of acreage committed to the unit and that the Participating Area for the Mesaverde should be expanded as follows:

EIGHTEENTH EXPANDED PARTICIPATING AREA-Effective August 1, 1977

Mr. James A. Gillham, et al  
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November 6, 1978

<u>Drilling Block</u>	<u>Acres</u>	<u>Well Name and No.</u>
Section 3: W/2SE/4, 320.00 E/2SW/4		Yager Well No. 1
Section 10: NW/4 T-31N, R7W		

Pertinent well data on these wells is as follows:

The Yager No. 1 Well is located 1700 feet from the North Line and 850 feet from the West Line, Section 10, Township 31 North, Range 7 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on 5/8/77 and completed on 7/5/77 in the Mesaverde Formation at a plug back depth of 5974'. The Mesaverde Formation was perforated with one hole at each of the following depths:

5620', 5624', 5628', 5668', 5670', 5674',  
5677', 5680', 5766', 5775', 5783', 5793',  
5805', 5815', 5821', 5830'.

These perforations were treated with 15% hydrochloric acid followed by a sand-water fracturing. The well was shut-in 6/28/77 for 7 days with a SIPT of 1093 psig and SIPC of 1163 psig. On 7/5/77 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 4062 MCFD with a calculated AOF of 5965 MCFD.

#### NOTICE OF COMPLETION OF ADDITIONAL WELL

Northwest Pipeline Corporation, as Unit Operator, has determined the following well capable of producing unitized substances in paying quantities and has been completed on a nonstandard proration unit containing a portion of acreage committed to the Unit:

The Yager No. 1B Well is located 800' from the South Line and 2480' from the West Line, Section 3, Township 31 North, Range 7 West, N.M.P.M., San Juan County, New Mexico. This well was spudded on 11/16/77 and completed on 1/4/78 in the Mesaverde Formation at a plug back depth of 5970'. The Mesaverde Formation was perforated with one hole at each of the following depths:

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Page 3  
November 6, 1978

5618', 5626', 5666', 5670', 5701', 5762',  
5767', 5774', 5776', 5782', 5791', 5797',  
5815', 5823' and 5899'.

These 15 perforations were treated with 15% hydrochloric acid, followed by a sand-water fracturing. The well was shut-in 12/29/77 for six days. On 1/4/78 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 3700 MCFD with a calculated AOF of 3882 MCFD with an FPT of 274 psig and an FPC of 846 psig.

The Mesaverde Participating Area is not enlarged by virtue of this infill well and the percentage of participation remains the same.

Attached are Schedule XX and ownership map shows the Eighteenth Expanded Participating Area for the Mesaverde Formation of the San Juan 32-7 Unit Area. This Schedule describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each tract. Inasmuch as this needs no official approval, no provision is made therefor; and in the absence of disapproval, the subject expansions will become effective August 1, 1977.

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

Yours very truly,



Betty R. Burnett  
Supervisor of Contracts and Units

BRB:vh  
Attachments

cc: Working Interest Owners

SAN JUAN 32-7 UNIT  
WORKING INTEREST OWNERS

Mr. J. Glenn Turner, Jr.  
Independent Co-Executor of the  
Estate of J. Glenn Turner, Deceased  
1700 Mercantile Bank Building  
Dallas, Texas 75206

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

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

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

Mrs. Iris Gerber Damson  
25 Mamaroneck Road  
Scarsdale, New York 10583

Amoco Production Company  
Attention: Mr. T. M. Curtis  
1000 Security Life Building  
Denver, Colorado 80202

Mr. Edward Gerber  
Post Office Box 234  
Gracie Station  
New York, New York 10028

SCHEDULE XX

## EIGHTEENTH EXPANDED PARTICIPATING AREA FOR THE MESAVERDE FORMATION

SAN JUAN 32-7 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
<u>TRACT 1</u>						
SF 078459	T-32-N, R-7-W Sec. 22: All	640.00	Royalty; Working Interest; Northwest Pipeline Corporation; ORRI;	12.50%  82.50% 5.00% <u>100.00%</u>	12.50%  82.50% <u>5.00%</u> <u>100.00%</u>	7.642129
<u>TRACT 2</u>						
SF 078460	T-32-N, R-7-W Sec. 7: Lots 4, 5, 6 and SE/4SW/4 Sec. 8: SE/4SE/4 Sec. 17: All Sec. 20: N/2, N/2SW/4, SE/4SW/4, W/2, SE/4 Sec. 21: SE/4, E/2NE/4	1573.10	Royalty; Working Interest; Northwest Pipeline Corporation; ORRI;	12.50%  82.50% 5.00% <u>100.00%</u>	12.50%  82.50% <u>5.00%</u> <u>100.00%</u>	18.784113
<u>TRACT 3</u>						
SF 078472	T-32-N, R-7-W Sec. 23: SW/4 Sec. 27: NW/4 Sec. 28: NE/4 Sec. 29: NE/4NW/4 & SE/4SW/4	560.00	Royalty; Working Interest; Northwest Pipeline Corporation; ORRI;	12.50%  82.50% 5.00% <u>100.00%</u>	12.50%  82.50% <u>5.00%</u> <u>100.00%</u>	6.686863
<u>TRACT 5</u>						
SF 078542	T-32-N, R-7-W Sec. 28: SE/4 Sec. 35: S/2	480.00	Royalty; Working Interest; Northwest Pipeline Corp.; Gen. Am. Oil Co. of Tex.; ORRI;	12.500%  61.875% 20.625% 5.000% <u>100.000%</u>	12.500%  61.875% 20.625% <u>5.000%</u> <u>100.000%</u>	5.731597
EFFECTIVE AUGUST 1, 1977						



## UNIT AREA EXPANSION SCHEDULE

## SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 6						
SF 078543	T-32-N, R-7-W Sec. 27: SW/4 Sec. 35: N/2	480.00	Royalty; Working Interest; Northwest Pipeline Corporation; ORRI;  TOTAL	12.50%  82.50%  5.00% 100.00%	12.50%  82.50%  5.00% 100.00%	5.731597
TRACT 7						
SF 078669	T-32-N, R-7-W Sec. 21: W/2NW/4	80.00	Royalty; Working Interest; Southland Royalty; ORRI;  TOTAL	12.50%  87.50% 0.00% 100.00%	0.00%  0.00% 0.00% 0.00%	0.000000
TRACT 10						
SF 078996	T-31-N, R-7-W Sec. 3: NW/4SE/4 Sec. 4: Lots 6,7, 8 & SW/4 & NW/4SE/4 Sec. 5: Lots 5,6, 7,8 & SE/4 & E/2SW/4 Sec. 8: E/2	1,004.81	Royalty; Working Interest; Northwest Pipeline Corporation ORRI;  TOTAL	12.50%  82.50%  5.00% 100.00%	12.50%  82.50%  5.00% 100.00%	11.998261
TRACT 11						
SF 078998	T-31-N, R-7-W Sec. 17: All	640.00	Royalty; Working Interest; Northwest Pipeline Corporation; ORRI;  TOTAL	12.50%  82.50%  5.00% 100.00%	12.50%  82.50%  5.00% 100.00%	7.642129

Effective August 1, 1977

## SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 15						
NM 05540	T-32-N, R-7-W Sec. 9: SW/4SW/4	40.00	Royalty; Working Interest; Northwest Pipeline Corporation; ORRI;	12.50%  82.50%  5.00% <u>100.00%</u>	12.50%  82.50%  5.00% <u>100.00%</u>	0.477633
TRACT 16						
E-178-4	T-32-N, R-7-W Sec. 16: W/2W/2	160.00	Royalty; Working Interest; N.B. & B.R. Gerber; ORRI;	12.50%  87.50%  0.00% <u>100.00%</u>	12.50%  87.50%  0.00% <u>100.00%</u>	1.910532
TRACT 17						
E-503-3	T-32-N, R-7-W Sec. 16: E/2W/2	160.00	Royalty; Working Interest; El Paso Natural Gas Co; ORRI;	12.500%  65.625%  21.875% <u>100.000%</u>	12.500%  65.625%  21.875% <u>100.000%</u>	1.910532
TRACT 17-A						
E-503-12	T-32-N, R-7-W Sec. 32: E/2W/2 Sec. 36: All	800.00	Royalty; Working Interest; Northwest Pipeline Corporation; ORRI;	12.50%  82.50%  5.00% <u>100.00%</u>	12.50%  82.50%  5.00% <u>100.00%</u>	9.552661

Effective August 1, 1977

## SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTU PARTICIPATI
			OWNERSHIP	PERCENTAGE		
<u>TRACT 21</u>						
Fee	T-32-N, R-7-W Sec. 7: Lots 1,2,3, SE/4 & NE/4SW/4 Sec. 8: Lots 1,2,3, E/2SW/4 & W/2SE/4 & NE/4SE/4 Sec. 9: Lot 4 & NW/4SW/4 Sec. 18: 13.36 acre tract in NE/4NE/4 Sec. 21: W/2NE/4 & E/2NW/4	732.58	Royalty; Working Interest: Northwest Pipeline Corporation; ORRI;  TOTAL	12.50%  87.50%  0.00% <u>100.00%</u>	12.50%  87.50%  0.00% <u>100.00%</u>	8.747610
<u>TRACT 21-A</u>						
Fee	T-32-N, R-7-W Sec. 7: 1 acre out of SW/4SE/4SE/4	1.00	Royalty; Working Interest: Northwest Pipeline Corporation; ORRI;  TOTAL	12.50%  87.50%  0.00% <u>100.00%</u>	12.50%  87.50%  0.00% <u>100.00%</u>	0.011941
<u>TRACT 22</u>						
Fee	T-32-N, R-7-W Sec. 7: 17.09 acres out of E/2SE/4 Sec. 18: W/2NE/4 & SE/4NE/4 & SE/4 & 26.64 acre tract in NE/4NE/4 Sec. 20: SW/4SW/4 Sec. 29: NW/4NW/4 & S/2NW/4 & N/2SW/4 & SW/4SW/4	603.73	Royalty; Working Interest: Northwest Pipeline Corporation; ORRI;  TOTAL	12.50%  84.50%  3.00% <u>100.00%</u>	12.50%  84.50%  3.00% <u>100.00%</u>	7.209035

## UNIT AREA EXPANSION SCHEDULE

PAGE 5 OF 6

## SCHEDULE XX

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	DRILLING BLOCK		PERCENTAGE COMMITTED	PRESENT ACTUAL PARTICIPATION
			OWNERSHIP	PERCENTAGE		
TRACT 23						
Fee	T-32-N, R-7-W Sec. 20: E/2SE/4 Sec. 21: SW/4	240.00	Royalty; Working Interest; Northwest Pipeline Corporation; ORRI; TOTAL	12.50% 87.50% 0.00% 100.00%	12.50% 87.50% 0.00% 100.00%	2.865798
TRACT 24						
Fee	T-32-N, R-7-W Sec. 32: W/2W/2	160.00	Royalty; Working Interest; Northwest Pipeline Corporation; ORRI; TOTAL	12.50% 87.50% 0.00% 100.00%	12.50% 87.50% 0.00% 100.00%	1.910532
TRACT 25						
Fee	T-32-N, R-7-W Sec. 8: Lot 4 W/2SW/4	99.41	Royalty; Working Interest; Northwest Pipeline Corporation; ORRI; TOTAL	12.50% 87.50% 0.00% 100.00%	12.50% 87.50% 0.00% 100.00%	1.187037
TRACT 26						
Fee	T-31-N, R-7-W Sec. 3: E/2SW/4, SW/4SE/4	120.00	Royalty; Working Interest; Palmer Oil and Gas; ORRI; TOTAL	20.00% 80.00% 0.00% 100.00%	00.00% 00.00% 0.00% 00.00%	0.000000

Effective August 1, 1977

## SCHEDULE XX

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

TRACT 28

Fee	T-31-N, R-7-W Sec. 10: NW/4	160.00	Royalty; Working Interest; Palmer Oil and Gas; ORRI;	20.00%  80.00% 0.00% <u>100.00%</u>	00.00%  00.00% 0.00% <u>00.00%</u>	0.000000
			TOTAL			

RECAPITULATION

Township 31 North, Range 7 West, N.M.P.M.  
Section 3: NW/4SE/4  
Section 4: Lots 6, 7, 8, SW/4 & NW/4SE/4  
Section 5: Lots 5, 6, 7, 8, SE/4 & E/2SW/4  
Section 8: E/2

Section 17: All

Township 32 North, Range 7 West, N.M.P.M.  
Section 7: (Frac.) All  
Section 8: (Frac.) All  
Section 9: (Frac.) W/2W/2  
Sections 17, 20, 21, 22, 35, 36: All  
Sections 16, 27, 29, 32: W/2  
Section 23: SW/4  
Sections 18, 28: E/2

Total Number of Acres in Participating Area: 8,734.63  
Total Number of Acres Committed to Participating Area: 8,374.63  
Total Number of Acres Not Committed to Participating Area: 360.00