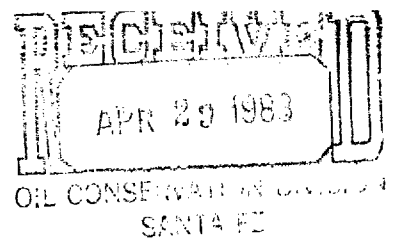


NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT

April 18, 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

Re: San Juan 30-5 Unit #14-08-001-346  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF  
ADDITIONAL WELLS  
MESAVERDE FORMATION

Gentlemen:

Pursuant to the provisions of Section 11(a) of the San Juan 30-5 Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, has determined that additional wells capable of producing unitized substances in paying quantities have been completed in the Mesaverde Formation Participating Area.

The well data is as follows:

The San Juan 30-5 #12A Well is located 1560 feet from the north line and 850 feet from the west line, Section 31, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on May 4, 1981. The Mesaverde Formation was completed on November 6, 1981 with a dual completion in the Pictured Cliffs Formation. The Mesaverde Formation was perforated with 26 holes at the following depths:

5668' to 6098'

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 583 psig with a flowing pressure of 140 psig producing at a rate of 1917 MCFD. The calculated AOF was 2440 MCFD.

The San Juan 30-5 #14A Well is located 1120 feet from the south line and 1580 feet from the east line, Section 31, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on March 23, 1981 and is a dually completed well. The Mesaverde Formation was completed on December 10, 1981. The Formation was perforated with 30 holes at the following depths:

5535' to 5917'

These perforations were treated with 10,000 gallons pad water followed by 100,000 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 580 psig with a flowing pressure of 193 psig producing at a rate of 2617 MCFD. The calculated AOF was 3258 MCFD.

The San Juan 30-5 #41A Well is located 1570 feet from the south line and 1000 feet from the east line, Section 32, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on June 13, 1981. The Mesaverde Formation was completed on August 31, 1981. This Formation was perforated with 22 holes at the following depths:

5312' to 5709'

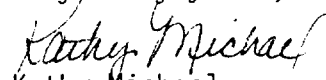
These perforations were treated with 11,750 gallons pad water followed by 80,000 pounds of 20/40 sand in fracturing fluid. The well was initially tested with a positive choke in a three hour test. The SITP was 687 psig with a flowing pressure of 136 psig producing at a rate of 1881 MCFD. The calculated AOF was 2488 MCFD.

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

Inasmuch as this needs no official approval, pursuant to Section 11 of the San Juan 30-5 Unit Agreement, no provision is made therefor, 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 shown on the attached sheet.

Very truly yours,

  
Kathy Michael  
Supervisor/Land Department

KM:bs  
Attachment  
CC: Working Interest Owners

SAN JUAN 30-5  
WORKING INTEREST OWNERS

AMOCO PRODUCTION COMPANY  
ATTN: M. R. GILE  
1670 BROADWAY - SUITE 1914  
AMOCO BUILDING  
DENVER, COLORADO 80202

GENERAL AMERICAN OIL COMPANY OF TEXAS  
ATTN: L. E. DOOLEY  
MEADOWS BUILDING  
DALLAS, TEXAS 75206

PHILLIPS PETROLEUM COMPANY  
ATTN: M. K. STUDY  
8055 E. TUFTS AVENUE PARKWAY  
DENVER, COLORADO 80237

EL PASO EXPLORATION COMPANY  
ATTN: JAMES R. PERMENTER  
P. O. BOX 1492  
EL PASO, TEXAS 79978

GETTY OIL COMPANY  
ATTN: MR. T. L. DITMORE  
THREE PARK CENTRAL - SUITE 700  
DENVER, COLORADO 80202

LARRY H. WILLIAMS  
ARAPAHOE DRILLING COMPANY  
200 LOMAS, NW - SUITE 440  
ALBUQUERQUE, NEW MEXICO 87102

LT. COL. LANGDON DEWEY HARRISON,  
TRUSTEE FOR MRS. OMEGA E. QUINN  
7517 TAMARRON PLACE, N.E.  
ALBUQUERQUE, NEW MEXICO 87109

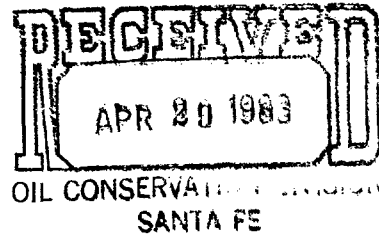
# NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT

April 18, 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

Re: San Juan 30-5 Unit #14-08-001-346  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF  
ADDITIONAL WELL  
PICTURED CLIFFS FORMATION

Gentlemen:

Pursuant to the provisions of Section 11(a) of the San Juan 30-5 Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, has determined that the following described well, which has been completed within the Pictured Cliffs Formation Participating Area, is incapable of producing unitized substances in paying quantities.

The well data is as follows:

The San Juan 30-5 #12A Well is located 1560 feet from the north line and 850 feet from the west line, Section 31, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on May 4, 1981. The Pictured Cliffs Formation was completed on January 4, 1982 with a dual completion in the Mesaverde Formation. The Pictured Cliffs Formation was perforated with 17 holes at the following depths:

3830' to 3846'

April 18, 1983  
Page Two

These perforations were treated with 5,000 gallons pad water followed by 50,000 pounds of 10/20 sand in fracturing fluid. After fracturing the formation, a flow rate of about 4 MCFD measured.

Since this well was drilled within the existing Pictured Cliffs Formation Participating Area, the Participating Area is not affected by virtue of this non-commercial well and the percentage of participation remains the same.

Inasmuch as this determination requires no official approval, no provision is made therefor 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 30-5  
WORKING INTEREST OWNERS

AMOCO PRODUCTION COMPANY  
ATTN: M. R. GILE  
1670 BROADWAY - SUITE 1914  
AMOCO BUILDING  
DENVER, COLORADO 80202

GENERAL AMERICAN OIL COMPANY OF TEXAS  
ATTN: L. E. DOOLEY  
MEADOWS BUILDING  
DALLAS, TEXAS 75206

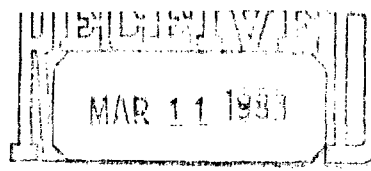
PHILLIPS PETROLEUM COMPANY  
ATTN: M. K. STUDY  
8055 E. TUFTS AVENUE PARKWAY  
DENVER, COLORADO 80237

EL PASO EXPLORATION COMPANY  
ATTN: JAMES R. PERMENTER  
P. O. BOX 1492  
EL PASO, TEXAS 79978

GETTY OIL COMPANY  
ATTN: MR. T. L. DITMORE  
THREE PARK CENTRAL - SUITE 700  
DENVER, COLORADO 80202

LARRY H. WILLIAMS  
ARAPAHOE DRILLING COMPANY  
200 LOMAS, NW - SUITE 440  
ALBUQUERQUE, NEW MEXICO 87102

LT. COL. LANGDON DEWEY HARRISON,  
TRUSTEE FOR MRS. OMEGA E. QUINN  
7517 TAMARRON PLACE, N.E.  
ALBUQUERQUE, NEW MEXICO 87109



NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT

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

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 30-5 Unit #14-08-001-346  
Rio Arriba County, NM  
NOTICE OF COMPLETION OF  
NON-COMMERCIAL WELLS  
DAKOTA FORMATION

Gentlemen:

Pursuant to the provisions of Section 11(a) of the San Juan 30-5 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 Dakota Formation.

The pertinent data is as follows:

The San Juan 30-5 Unit #81 Well is located 1850 feet from the South Line and 790 feet from the West Line, Section 27, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on May 28, 1981. The Dakota Formation was completed on October 5, 1981. This Formation was perforated with 14 holes at the following depths:

7835' to 7898'

These perforations were treated with 20,000 gallons pad water followed by 60,000 pounds of 40/60 sand and 2,000 pounds 20/40 sand in fracturing fluid. This well was initially tested using a positive choke in a three hour test. The SITP was 2655 psig with a flowing tubing pressure of 144 psig producing at a rate of 1944 MCFD. The calculated AOF was 2037 MCFD.

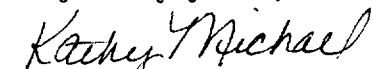
The San Juan 30-5 Unit #82 Well is located 850 feet from the North Line and 810 feet from the West Line, Section 25, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on May 24, 1981. The Dakota Formation was completed on October 22, 1981. This Formation was perforated with 15 holes at the following depths:

8284' to 8298'

These perforations were treated with 20,000 gallons pad water followed by 40,000 pounds of 40/60 sand and 10,000 pounds of 20/40 sand in fracturing fluid. This well was initially tested using a positive choke in a three hour test. The SITP was 1984 psig with a flowing tubing pressure of 108 psig producing at a rate of 1492 MCFD. The calculated AOF was 1534 MCFD.

If these determinations meet with your approval, please so indicate such approval in the space provided and return an approved copy of this letter for our files. 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  
CC: Working Interest Owners



APPROVED

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

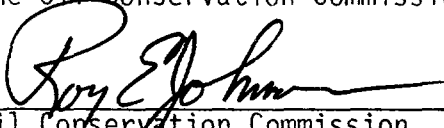
Date \_\_\_\_\_

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 5-16-83

San Juan 30-5 Notice of Completion of Non-Commercial Wells #81 and #82

SAN JUAN 30-5  
WORKING INTEREST OWNERS

AMOCO PRODUCTION COMPANY  
ATTN: M. R. GILE  
1670 BROADWAY - SUITE 1914  
AMOCO BUILDING  
DENVER, COLORADO 80202

GENERAL AMERICAN OIL COMPANY OF TEXAS  
ATTN: L. E. DOOLEY  
MEADOWS BUILDING  
DALLAS, TEXAS 75206

PHILLIPS PETROLEUM COMPANY  
ATTN: M. K. STUDY  
8055 E. TUFTS AVENUE PARKWAY  
DENVER, COLORADO 80237

EL PASO EXPLORATION COMPANY  
ATTN: JAMES R. PERMENTER  
P. O. BOX 1492  
EL PASO, TEXAS 79978

GETTY OIL COMPANY  
ATTN: MR. T. L. DITMORE  
THREE PARK CENTRAL - SUITE 700  
DENVER, COLORADO 80202

LARRY H. WILLIAMS  
ARAPAHOE DRILLING COMPANY  
200 LOMAS, NW - SUITE 440  
ALBUQUERQUE, NEW MEXICO 87102

LT. COL. LANGDON DEWEY HARRISON,  
TRUSTEE FOR MRS. OMEGA E. QUINN  
7517 TAMARRON PLACE, N.E.  
ALBUQUERQUE, NEW MEXICO 87109

Case 417  
R# 202

NORTHWEST PIPELINE CORPORATION

LAND DEPARTMENT

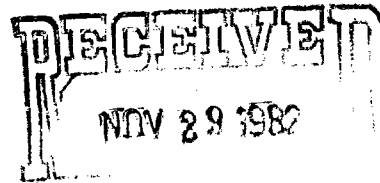
November 22, 1982

1125 Seventeenth Street, Suite 2140  
Denver, Colorado 80202  
303-620-3559

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 30-5 Unit #14-08-001-346  
Rio Arriba County, New Mexico  
NOTICE OF COMPLETION OF  
ADDITIONAL WELL  
MESAVERDE FORMATION

Gentlemen:

Pursuant to Section 11(a) of the San Juan 30-5 Unit Agreement, Northwest Pipeline Corporation, as Unit Operator, has determined that an additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this Unit.

The well data is as follows:

The San Juan Unit No. 9A Well is located 1540 feet from the North Line and 1050 feet from the West Line, Section 32, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. This well was spudded on May 19, 1981 and completed on August 3, 1981 in the Mesaverde Formation at a plug back depth of 5870'. The Mesaverde Formation was perforated with 20 holes at depths of:

5467' - 5834'

These perforations were treated with 11,750 gallons fluid followed by a sand-water fracturing. The well was shut-in with a SIPT of 814 psig. On August 3, 1981, the well was tested and after flowing for three (3) hours through a 2 x .750 inch variable choke on the 2 3/8 inch tubing, the well gauged 1987 MCFD with a calculated AOF of 2444 MCFD.

Minerals Management Service  
Commissioner of Public Lands  
Oil Conservation Commission  
November 22, 1982  
Page Two

The committed drilling block upon which this well is located is described as the W/2 of Section 32, T30N-R5W, Rio Arriba County, New Mexico containing 320.00 acres.

This drilling block was included in the San Juan 30-5 Unit Seventh Expanded Participating Area effective February 1, 1956.

Since this well was drilled within the existing Mesaverde Formation Participating Area, the Participating Area is not enlarged by virtue of this infill well, and the percentage of participation remains the same.

Copies of this letter are being sent to the Working Interest Owners 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

SAN JUAN 30-5  
WORKING INTEREST OWNERS

AMOCO PRODUCTION COMPANY  
ATTN: M. R. GILE  
1670 BROADWAY - SUITE 1914  
AMOCO BUILDING  
DENVER, COLORADO 80202

GENERAL AMERICAN OIL COMPANY OF TEXAS  
ATTN: L. E. DOOLEY  
MEADOWS BUILDING  
DALLAS, TEXAS 75206

PHILLIPS PETROLEUM COMPANY  
ATTN: M. K. STUDY  
8055 E. TUFTS AVENUE PARKWAY  
DENVER, COLORADO 80237

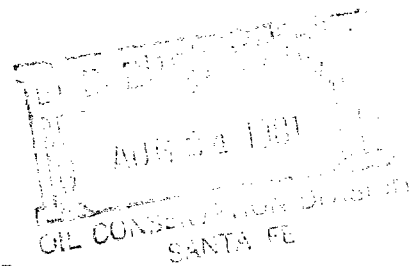
EL PASO EXPLORATION COMPANY  
ATTN: JAMES R. PERMENTER  
P. O. BOX 1492  
EL PASO, TEXAS 79978

GETTY OIL COMPANY  
ATTN: MR. T. L. DITMORE  
THREE PARK CENTRAL - SUITE 700  
DENVER, COLORADO 80202

LARRY H. WILLIAMS  
ARAPAHOE DRILLING COMPANY  
200 LOMAS, NW - SUITE 440  
ALBUQUERQUE, NEW MEXICO 87102

LT. COL. LANGDON DEWEY HARRISON,  
TRUSTEE FOR MRS. OMEGA E. QUINN  
7517 TAMARRON PLACE, N.E.  
ALBUQUERQUE, NEW MEXICO 87109

South Central Region  
P. O. Box 26124  
Albuquerque, New Mexico 87125



AUG 21 1981

Northwest Pipeline Corporation  
Attention: Kathy Michael  
P. O. Box 5800, Terminal Annex  
Denver, Colorado 80217

Gentlemen:

Your application of May 13, 1981 requesting approval of the first and second revision to the Dakota participating area, San Juan 30-5 unit, Rio Arriba County, New Mexico, No. 14-08-001-346, was approved on this date, subject to approval by the State of New Mexico. The first revision is effective July 1, 1975 and the second revision is effective August 1, 1975.

The first revision adds 320 acres described as N $\frac{1}{2}$  sec. 7, T. 30 N., R. 5 W., N.M.P.M. and is based on the completion of well No. 39. The well was completed in the interval of 7697 to 7822 feet with an initial flow of 1703 Mcf/d.

The second revision adds 960. acres described as S $\frac{1}{2}$  sec. 7, W $\frac{1}{2}$  sec. 17, E $\frac{1}{2}$  sec. 18, T. 30 N., R. 5 W., N.M.P.M. and is based on the completion of well No. 47. The well was completed in the interval of 7794 to 7924 feet with an initial flow of 2468 Mcf/d.

Copies of the approved application are being distributed to the appropriate Federal offices and an approved copy is returned herewith. You are requested to furnish the State of New Mexico and all other interested parties with appropriate evidence of this approval.

Sincerely yours,

(ORIG. SGD.) JAMES W. SHELTON

FOR Gene F. Daniel  
Deputy Conservation Manager  
Oil and Gas

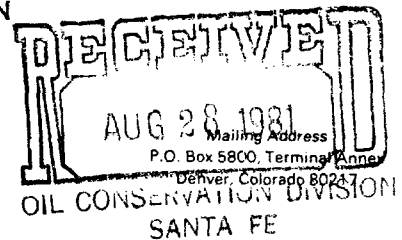
Enclosure

cc:  
BIM, Santa Fe (ltr only)  
NMCCD, Santa Fe (ltr only)/  
Com of Pub Lands, Santa Fe (ltr only)  
DS, Farmington (w/cy)

NORTHWEST PIPELINE CORPORATION

1125 Seventeenth Street, Suite 2100  
(303) 620-3500

August 26, 1981



Mr. Jack Willock  
Assistant Area Oil  
and Gas Supervisor  
United States Geological Survey  
Western National Bank Building  
505 Marquette NW, Suite 815  
Albuquerque, New Mexico 87102

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

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

Gentlemen:

Re: San Juan 30-5 Unit #14-08-001-436  
Rio Arriba County, New Mexico  
APPLICATION FOR APPROVAL OF THE  
FIRST EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective July 1, 1975  
APPLICATION FOR APPROVAL OF THE  
SECOND EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective August 1, 1975

The applications for approval of the First and Second Expanded Participating Areas filed on April 13, 1981 for the San Juan 30-5 Unit have been approved by the Regulatory Agencies as follows:

|                              |         |
|------------------------------|---------|
| Oil Conservation Commission  | 4-30-81 |
| Commissioner of Public Lands | 4-23-81 |
| U.S. Geological Survey       | 8-21-81 |

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

Very truly yours,

*Kathy Michael*  
Kathy Michael  
Associate Landman

KM:vh  
Enclosure

San Juan 30-5 Unit  
Working Interest Owners

Amoco Production Company  
Attention: Mr. A M. Roney  
1670 Broadway, Suite 750  
Amoco Building  
Denver, Colorado 80202

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

Phillips Petroleum Company  
Attention: Mr. Paul Wieman  
7800 East Dorado Place  
Englewood, Colorado 80111

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

Getty Oil Company  
Attention: Mr. T. L. Ditmore  
Three Park Central, Suite 700  
Denver, Colorado 80202

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

Lt. Col. Langdon Dewey Harrison,  
Trustee for Mrs. Omega E. Quinn  
7517 Tamarron Place, N.E.  
Albuquerque, New Mexico 87109

Arapahoe Drilling Company  
Attention: Mr. Larry H. Williams  
Post Office Box 26687  
Albuquerque, New Mexico 87125

Phillips Petroleum Company  
Attention: Mr. Gordon Buckman  
7800 East Dorado Place  
Englewood, Colorado 80111





STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR  
LARRY KEHOE  
SECRETARY

April 30, 1981

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87501  
(505) 827-2434

Northwest Pipeline Corporation  
P. O. Box 5800, Terminal Annex  
Denver, Colorado 80217

Attention: Kathy Michael

Re: Case No. 417  
San Juan 30-5 Unit  
First and Second Expanded  
Participating Areas for  
the Dakota Formation

Gentlemen:

We hereby approve the First and Second Expanded Participating Areas for the Dakota Formation for the San Juan 30-5 Unit, Rio Arriba County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands.

Two approved copies of the First and Second Expanded Participating Areas are returned herewith.

Yours very truly,

JOE D. RAMEY  
Director

JDR/EP/fd  
enc.

cc: U.S.G.S. - Albuquerque  
Commissioner of Public Lands

NORTHWEST PIPELINE CORPORATION

1125 Seventeenth Street, Suite 2100  
Denver, Colorado 80202  
(303) 620-3500

April 13, 1981

Mailing Address

P. O. Box 5800, Terminal Annex  
Denver, Colorado 80217

Mr. Jack Willock  
Assistant Area Oil  
and Gas Supervisor  
United States Geological Survey  
Western National Bank Building  
505 Marquette NW, Suite 815  
Albuquerque, New Mexico 87102

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

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

Gentlemen:

Re: San Juan 30-5 Unit #14-08-001-436  
Rio Arriba County, New Mexico

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

APPLICATION FOR APPROVAL OF THE  
SECOND EXPANDED PARTICIPATING AREA  
Dakota Formation  
Effective August 1, 1975

Pursuant to the provisions of Section 11 (b) of the San Juan 30-5 Unit Agreement #14-08-001-436, approved November 7, 1952, Northwest Pipeline Corporation, as Unit Operator, hereby respectfully requests approval of the First and Second Expanded Participating Areas for the Dakota formation, to wit:

FIRST EXPANDED PARTICIPATING AREA - Effective July 1, 1975

| <u>Description of Lands</u>                                 | <u>Acres</u> |
|---|--------------|
| Township 30 North, Range 5 West, N.M.P.M.<br>Section 7: N/2 | 320.00       |

U. S. Geological Survey  
Commissioner of Public Lands  
Oil Conservation Commission  
April 13, 1981  
Page 2

APPLICATION FOR APPROVAL OF THE  
FIRST AND SECOND EXPANDED  
PARTICIPATING AREAS

This proposed First Revision of the Participating Area for the Dakota formation is predicated upon the determination by Northwest Pipeline Corporation, as Unit Operator, that the following San Juan 30-5 Unit Dakota well which was completed outside the limits of the existing Dakota Participating Area, is capable of producing unitized substances in paying quantities from the Dakota formation. This well is as follows:

The Northwest Pipeline Corporation's San Juan 30-5 Unit Well No. 39 is located 1,830 feet from the North Line and 1,700 feet from the East Line of Section 7, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. The well was spudded July 4, 1975 and reached the Total Depth of 7,860 feet on July 16, 1975. The Dakota Producing Interval was perforated as follows:

7697-7714', 7740-7748', 7766-7784' and 7812-7822'.

The perforated intervals were treated with 500 gallons of a 7½% hydrochloric acid solution, then hydraulically fractured with 46,000 pounds of sand and 70,000 gallons of water. The Absolute Open Flow potential of 1703 MCF/day was established on July 30, 1975. The seven (7) day shut-in pressure were 2754 psia on the tubing and 2761 psia on the casing.

SECOND EXPANDED PARTICIPATING AREA - Effective August 1, 1975

| <u>Description of Lands</u>               | <u>Acres</u> |
|---|--------------|
| Township 30 North, Range 5 West, N.M.P.M. | 960.00       |
| Section 7: S/2                            |              |
| Section 17: W/2                           |              |
| Section 18: E/2                           |              |

This proposed Second Revision of the Participating Area for the Dakota formation is predicated upon the determination by Northwest Pipeline Corporation, as Unit Operator, that the following San Juan 30-5 Unit Dakota well which was completed outside the limits of the existing Dakota Participating Area, is capable of producing unitized substances in paying quantities from the Dakota formation. This well is as follows:

APPLICATION FOR APPROVAL OF THE  
FIRST AND SECOND EXPANDED  
PARTICIPATING AREAS

The Northwest Pipeline Corporation's San Juan 30-5 Unit Well No. 47 is located 1,450 feet from the South Line and 970 feet from the West Line of Section 17, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New Mexico. The well was spudded on July 20, 1975, and reached the Total Depth of 7,945 feet on July 31, 1975. The Dakota Producing Interval was perforated with one shot per foot as follows:

7794', 7800', 7808', 7816', 7846', 7862', 7878', 7886',  
7914' and 7924'.

The perforated intervals were treated with 800 gallons of a 7½% hydrochloric acid solution, then hydraulically fractured with 43,000 pounds of sand and 30,000 gallons of water. The Absolute Open Flow potential of 2468 MCF/day was established on August 19, 1975. The seven (7) day shut-in pressures were 2643 psia on the tubing and 2645 on the casing.

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

EXHIBIT "A"

Ownership maps reflecting the boundaries of the Unit and the proposed First and Second Expansions of the Participating Area of the Dakota formation within the San Juan 30-5 Unit.

EXHIBIT "B"

Geological Reports on the First and Second Expansions of the Participating Area of the Dakota formation within the San Juan 30-5 Unit.

EXHIBIT "C"

Figure No. 1: San Juan 30-5 Dakota Structure Map  
Figure No. 2: San Juan 30-5 Dakota Isopach Map

EXHIBIT "D"

Table No. 1: Schedule of San Juan 30-5 Unit Dakota Production.

U. S. Geological Survey  
Commissioner of Public Lands  
Oil Conservation Commission  
April 13, 1981  
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APPLICATION FOR APPROVAL OF THE  
FIRST AND SECOND EXPANDED  
PARTICIPATING AREAS

Attached hereto are Schedules II and III showing the proposed First and Second Expanded Participating Areas for the Dakota formation in the San Juan 30-5 Unit Area. These Schedules describe the Participating Area, show the percentage of unitized substances allocated to each unitized tract, and the percentage of ownership in the tracts.

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

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

Yours very truly,

*Kathy Michael*

Kathy Michael  
Land Records Coordinator  
(303) 620-3520

KM:vh  
Enclosures

cc: Working Interest Owners

Approved 4/30/ 19 81  
*[Signature]*  
Director  
Oil Conservation Division  
Energy and Minerals Department

THIS APPROVAL GRANTED SUBJECT TO LIFE APPROVAL  
BEING GRANTED BY THE UNITED STATES GEOLOGICAL  
SURVEY, U.S. GEOLOGICAL SURVEY, COMMISSIONER OF PUBLIC LANDS  
OF THE STATE OF NEW MEXICO.

San Juan 30-5 Unit  
Working Interest Owners

Amoco Production Company  
Attention: Mr. A. M. Roney  
1670 Broadway, Suite 750  
Amoco Building  
Denver, Colorado 80202

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

Phillips Petroleum Company  
Attention: Mr. Derryl E. Millican  
7800 East Dorado Place  
Englewood, Colorado 80111

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

Getty Oil Company  
Attention: Mr. T. L. Ditmore  
Three Park Central, Suite 700  
Denver, Colorado 80202

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

Lt. Col. Langdon Dewey Harrison,  
Trustee for Mrs. Omega E. Quinn  
7517 Tamarron Place, N.E.  
Albuquerque, New Mexico 87109

Arapahoe Drilling Company  
Attention: Mr. Larry H. Williams  
Post Office Box 26687  
Albuquerque, New Mexico 87125

Phillips Petroleum Company  
Attention: Mr. Gordon Buckman  
7800 East Dorado Place  
Englewood, Colorado 80111

**NORTHWEST PIPELINE CORPORATION**  
**111 AREA EXPANSION SCHEDULE**

**SCHEDULE 11**  
**FIRST EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION**  
**SAN JUAN 30-5 UNIT**

| SERIAL NUMBER | DESCRIPTION                | NUMBER<br>OF ACRES | OWNERSHIP  | DRILLING BLOCK            | PERCENTAGE<br>COMMITTED   | PRESENT AC<br>PARTICIPA |
|---------------|----------------------------|--------------------|--|---------------------------|---------------------------|-------------------------|
| SF 078997     | <u>T-30-N, R-5-W</u>       | 560.00             |  | <u>TRACT 7</u>            |                           |                         |
|               | Sec. 7: N/2                |                    | Royalty;   | 12.50%                    | 12.50%                    | 87.500000%              |
|               | Sec. 8: NW/4 &<br>N/2 SW/4 |                    | Working Interest:<br>Phillips Petroleum Co.;<br>ORRI;                          | 82.50%<br>5.00%           | 82.50%<br>5.00%           |                         |
|               |                            |                    | TOTAL  | <u>100.00%</u>            | <u>100.00%</u>            |                         |
|               | <u>TRACT 25</u>            |                    |  |                           |                           |                         |
|               | <u>T-30-N, R-5-W</u>       | 80.00              |  |                           |                           |                         |
|               | Sec. 8: S/2 SW/4           |                    | Royalty;   | 12.50%                    | 12.50%                    | 12.500000%              |
|               |                            |                    | Working Interest:<br>Amoco Production Co.;<br>Phillips Petroleum Co.;<br>ORRI; | 43.75%<br>43.75%<br>0.00% | 43.75%<br>43.75%<br>0.00% |                         |
|               |                            |                    | TOTAL  | <u>100.00%</u>            | <u>100.00%</u>            |                         |
|               |                            |                    |  |                           |                           |                         |

NORTHWEST PIPELINE CORPORATION  
UNIT AREA EXPANSION SCHEDULE

SCHEDULE II

| SERIAL NUMBER | DESCRIPTION | NUMBER<br>OF ACRES | OWNERSHIP | DRILLING BLOCK | PERCENTAGE<br>COMMITTED | PRESENT A<br>PARTICIP |
|---------------|-------------|--------------------|-----------|----------------|-------------------------|-----------------------|
|---------------|-------------|--------------------|-----------|----------------|-------------------------|-----------------------|

RECAPITULATION

Description of Lands in Participating Area:

Township 30 North, Range 5 West, N. M. P. M.  
Section 7: N/2  
Section 8: W/2

Total Number of Acres in Participating Area: 640.00  
 Total Number of Acres Committed in Participating Area: 640.00

Effective July 1, 1975



**NORTHWEST PIPELINE CORPORATION**

**UNIT AREA EXPANSION SCHEDULE**

SCHEDULE III  
SECOND EXPANDED PARTICIPATING AREA FOR THE DAKOTA FORMATION  
SAN JUAN 30-5 UNIT

| SERIAL NUMBER | DESCRIPTION                                    | NUMBER<br>OF ACRES | DRILLING BLOCK  |            | PERCENTAGE<br>COMMITTED | PRESENT ACTU<br>PARTICIPATI |
|---------------|--|--------------------|---|------------|-------------------------|-----------------------------|
|               |  |                    | OWNERSHIP   | PERCENTAGE |                         |                             |
| SF 078994     | T-30-N, R-5-W                                  | 560.00             | Royalty;<br>Working Interest:<br>Phillips Petroleum Co.;<br>ORRI;   | 12.50%     | 12.50%                  | 35.000000%                  |
|               | Sec. 17: SW/4 &<br>S/2NW/4                     |                    |   |            |                         |                             |
|               | Sec. 18: E/2                                   |                    |   |            |                         |                             |
|               | TOTAL  |                    |   |            |                         |                             |
|               | TRACT 6  |                    |   |            |                         |                             |
| SF 078997     | T-30-N, R-5-W                                  | 720.00             | Royalty;<br>Working Interest:<br>Phillips Petroleum Co.;<br>ORRI;   | 12.50%     | 12.50%                  | 45.000000%                  |
|               | Sec. 7: N/2,<br>NW/4SW/4, N/2SE/4,<br>SE/4SE/4 |                    |   |            |                         |                             |
|               | Sec. 8: NW/4 &<br>N/2SW/4                      |                    |   |            |                         |                             |
|               | TOTAL  |                    |   |            |                         |                             |
|               | TRACT 7  |                    |   |            |                         |                             |
| Fee           | T-30-N, R-5-W                                  | 160.00             | Royalty;<br>Working Interest:<br>Amoco Production Company;<br>ORRI; | 12.50%     | 12.50%                  | 10.000000%                  |
|               | Sec. 7: S/2SW/4,<br>NE/4SW/4, SW/4SE/4         |                    |   |            |                         |                             |
|               | TOTAL  |                    |   |            |                         |                             |
|               | TRACT 19                                       |                    |   |            |                         |                             |
|               |  |                    |   |            |                         |                             |

Effective August 1, 1975

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

**SCHEDULE III**

| SERIAL NUMBER | DESCRIPTION   | NUMBER<br>OF ACRES | OWNERSHIP  | DRILLING BLOCK |            | PERCENTAGE<br>COMMITTED | PRESENT ACTU<br>PARTICIPATI |
|---------------|---|--------------------|--|----------------|------------|-------------------------|-----------------------------|
|               |   |                    |  |                | PERCENTAGE |                         |                             |
| Fee           | T-30-N, R-5-W<br>Sec. 8: S/2SW/4<br>Sec. 17: N/2NW/4<br>(except 4 acres out<br>of NW/4NW/4)                                     | 156.00             | Royalty;<br>Working Interest:<br>Amoco Production Company;<br>Phillips Petroleum Co.;<br>ORRI; | TRACT 25       |            | 12.50%                  | 9.750000%                   |
|               |   |                    |  |                |            |                         |                             |
|               |   |                    |  |                |            |                         |                             |
|               |   |                    |  |                |            |                         |                             |
|               |   |                    |  |                |            |                         |                             |
|               |   |                    | TOTAL  | 100.00%        | 100.00%    |                         |                             |
| Fee           | T-30-N, R-5-W<br>A tract of land 1200'<br>long by 450' wide<br>containing 4 acres,<br>more or less, lying<br>in NW/4 of Sec. 17 | 4.00               | Royalty;<br>Working Interest:<br>Amoco Production Company;<br>Phillips Petroleum Co.;<br>ORRI; | TRACT 25-A     |            | 12.50%                  | 0.250000%                   |
|               |   |                    |  |                |            |                         |                             |
|               |   |                    |  |                |            |                         |                             |
|               |   |                    |  |                |            |                         |                             |
|               |   |                    |  |                |            |                         |                             |
|               |   |                    | TOTAL  | 100.00%        | 100.00%    |                         |                             |

Effective August 1, 1975

**NORTHWEST PIPELINE CORPORATION**  
**UNIT ACRE EXPANSION SCHEDULE**

SCHEDULE III

| SERIAL NUMBER | DESCRIPTION | NUMBER<br>OF ACRES | OWNERSHIP | DRILLING BLOCK | PERCENTAGE | PERCENTAGE<br>COMMITTED | PRESENT ACTU<br>PARTICIPATI |
|---------------|-------------|--------------------|-----------|----------------|------------|-------------------------|-----------------------------|
|---------------|-------------|--------------------|-----------|----------------|------------|-------------------------|-----------------------------|

RECAPITULATION

Description of Lands in Participating Area:

Township 30 North, Range 5 West, N. M. P. M.  
Section 7: All  
Section 8: W/2  
Section 17: W/2  
Section 18: E/2

Total Number of Acres in Participating Area: 1600.00  
Total Number of Acres Committed in Participating Area: 1600.00

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

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

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

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

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

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

The foregoing approvals are for the San Juan 30-5 Unit #14-08-001-436, Rio Arriba County, New Mexico, First and Second Expansions of the Dakota Participating Area.