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NORTHWEST PIPELINE CORPORATION

January 19, 1977

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

Mr. Carl C. Traywick Assistant Oil and Gas Supervisor United States Geological Survey Post Office Drawer 1857 Roswell, New Mexico 88201

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

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

Accepted for Record

Purposes On_FES-0.2 1977

Carl C 1 Majord Assistant Area Oil and Gas Supervisor ti. S. Geological Survey

Gentlemen:

San Juan 30-5 Unit #14-08-001-346 Twenty-Sixth Expanded Participating Area Mesaverde Formation Effective January 1, 1976

> Twenty-Seventh Expanded Participating Area Mesaverde Formation Effective February 1, 1976

Enclosed are corrected Page 8 for Schedule XXVII to the Twenty-Sixth Expanded Participating Area of the Mesaverde Formation and Pages 6 and 9 for Schedule XXVIII to the Twenty-Seventh Expanded Participating Area. Effective October 1, 1976, Northwest Pipeline Corporation acquired the Mesaverde rights from Amoco Production under Tracts 17-D-1 and 23-A.

Very truly yours,

Betty R. Burnett

Supervisor of Contracts and Units

BRB:cak Mndlogures

Working Interest Owners and Mr. J. F. Kouns, Jr. Amoco Production Company

Working Interest Owners

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

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

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

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

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

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

Skelly Oil Company Attention: Mr. Dave Mullen 1860 Lincoln Street Denver, CO 80203

Coastline Petroleum Co., Inc. Suite 142 8204 Elmbrook Drive Dallas, Texas 75247

SCHEDULE XXVIII

1.142219	12.50% 82.50% 100.00%	12.50% t Pipeline Corp.;* 82.50% 5.00% TOTAL 100.00%	Royalty; Working In Northwest ORRI;	160.00	T-30-N, R-5-W Sec. 36: NW/4	:-347-17
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*Corrected Effective October 1, 1976

SCHEDULE XXVII

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January 1, 1976	& SE/4 27: NE/4 SE	T-30-N, R-5-W Sec. 26: W/2 SW/4			T-30-N, R-5-W Sec. 28: E/2 NE/4			T-30-N, R-5-W Sec. 27: W/2 NW/4			T-30-N, R-5-W Sec. 21: NW/4		DESCRIPTION
	_	160.00			80.00		\$	80.00			160.00		NUMBER OF ACRES
*Corrected Eff	Interest: 87. t Pipeline Corp.; 87.	Royalty; 12.50%	TRACT 24	ORRI; TOTAL 100.008	nterest:	TRACT 23-A	Northwest Pipeline Corp.; 87.50% ORRI; TOTAL 100.00%	Royalty; Working Interest:	TRACT 23	Northwest Pipeline Corp.; 87.50% ORRI; TOTAL 100.00%		TRACT 22	DRILLING BLOCK OWNERSHIP PERCENTAGE
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SCHEDULE XXVIII

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	17: A Tract 4.00		T-30-N, R-5-W Sec. 8: S/2 SW/4 156.00 Sec. 17: N/2 NW/4 (Except 4.00 acres)		T-30-N, R-5-W 26: W/2 SW/4 160.00 & SE/4 SW/4 Sec. 27: NE/4 SE/4		T-30-N, R-5-W Sec. 28: E/2 NE/4 80.00		NUMBER DESCRIPTION OF ACRES
	Royalty; Working Interest:	TRACT 25-A	Royalty; 12.50% Working Interest: Northwest Pipeline Corp.; 87.50% ORRI; 70TAL 100.00%	TRACT 25	Royalty; 12.50% Working Interest: Northwest Pipeline Corp.; 87.50% ORRI; TOTAL 100.00%	TRACT 24	Royalty; 12.50% Working Interest: Northwest Pipeline Corp.;* 87.50% .00% ORRI; TOTAL 100.00%	TRACT 23-A	OWNERSHIP DRILLING BLOCK PERCENTAGE
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*Corrected Effective October 1, 1976



United States Department of the Interior

GEOLOGICAL SURVEY P. 0. Drawer 1857 Roswell, New Mexico 88201

October 15, 1976

Northwest Pipeline Corporation Attention: Ms. Betty Burnett One Park Central, Suite 1487 Denver, Colorado 80202

Dear Ms. Burnett:

This is in confirmation of our telephone conversations of October 12 and 13, 1976, at which time we discussed your application for certain revisions to the San Juan 30-5 unit, Dakota participating area, effective January 1, 1974, July 1, 1975 and August 1, 1975.

It is suggested that in the absence of geological information to the contrary that you resubmit the subject application in the following manner:

- 1. Your application for approval of the initial participating area for the Dakota formation, which embraces the Wi sec. 8, T. 30N., R. 5W., N.M.P.M., effective January 1, 1974, and approved by this office on July 12, 1974, will remain unchanged.
- 2. Your proposed amended initial revision, which embraces Lots 1, 2 and the Swinki, sec. 12, T. 30N., R. 5W., for a total of 68.63 acres, should be the initial participating area Dakota "A", effective the date of completion of the Coastline Petroleum No. 1-57 Schalk well, located NEWN; sec. 12, T. 30N., R. 5W.
- 3. It appears that your proposed first expanded participating area Dakots formation revision, which embraces the N½ sec. 7, T. 30N., R. 5W., should be revised to include the SE½ of sec. 7, inasmuch as the geology submitted with the subject application suggests that this quarter section would be subject to drainage. The effective date of July 1, 1975, will remain unchanged.

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4. It further appears that your proposed second Dakota participating area revision, which embraces the Wa sec. 17, T. 30N., R. 5W., should be revised to include the Ei sec. 18, T. 30N., R. 5W., as the geology submitted with the subject application, suggests that this one-half section would also be subject to drainage. The effective date of August 1, 1975 will remain unchanged.

In regard to your subject application, would like to inform you that the Absolute Open Flow potential of 2468 MCFGD for unit well No. 47 (Dakota) may be in error, as our records indicate an A.O.F. of 1671 MCFGD for this well.

All material submitted by you in regard to the subject application is hereby returned.

Thank you for your cooperation.

Sincerely yours,

Orig. Signed - CARL C. TRAYWOOK
Ascistant Area O.I & Gas Supervisor

CARL C. TRAYWICK Assistant Area Oil and Gas Supervisor

NMOCC, Santa Fe This Conv for Com. Pub. Lands, Santa Fe

RLindau:mk

OIL CONSERVATION COMMISSION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

July 27, 1976

Northwest Pipeline Corporation One Park Central, Suite 1437 Denver, Colorado 80202

Attention: Mr. John W. Shepardson

Amended Initial, First and Second Expanded Dakota Participating Area, San Juan 30-5 Unit, Rio Arriba County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the application for the Amended Initial, the First Expansion, and the Second Expansion of the Participating Area, 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 of the State of New Mexico.

Two approved copies of the application are returned herewith.

Very truly yours,

JOE D. RAMEY Secretary-Director

JDR/JEK/og

cc: United States Geological Survey Roswell, New Mexico

> Commissioner of Public Lands Santa Fe, New Mexico



State of New Mexico



Commissioner of Public Lands
July 19, 1976



11/1/

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

Re: San Juan 30-5 Unit
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
AMENDED INITIAL EXPANDED
PARTICIPATING AREA
DAKOTA FORMATION
Effective January 1, 1974

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

APPLICATION FOR APPROVAL OF THE SECOND EXPANDED PARTICIPATING AREA DeRots Formetion Effective August 1, 1975

ATTENTION: Mr. John W. Shepardson

Gentlemen:

The Commissioner of Public Lands has this date approved the Amended Initial Expanded Participating Area, First Expanded Participating Area and the Second Expanded Participating Area, Dekota Formation, for the San Juan 30-5 Unit, Rio Arriba County, New Mexico. This approval is subject to like approval by the United States Geological Survey and the New Mexico Oil Conservation Commission.

Enclosed is one approved copy for your files.

Very truly yours,

PHIL R. LUCERO COMMISSIONER OF PUBLIC LANDS

BY: RAY D. GRAHAM, Director Oil and Gas Division Northwest Pipeline Corporation July 19, 1976 Page 2.

cc: United States Geological Survey

New Mexico Oil Conservation Commission

Northwest Pipeline Corporation



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

July 8, 1976



Mr. Carl C. Traywick
Acting Area Oil and Gas Supervisor
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico 88201

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

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

Re: San Juan 30-5 Unit #14-08-001-436
Rio Arriba County, New Mexico
APPLICATION FOR APPROVAL OF THE
AMENDED INITIAL EXPANDED
PARTICIPATING AREA
Dakota Formation
Effective January 1, 1974

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

Gentlemen:

Pursuant to the provisions of Section II (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 Amended Initial, First, and Second Expanded Participating Areas for the Dakota formation, to wit:

AMENDED INITIAL EXPANDED PARTICIPATING AREA -- Effective January 1, 1974

Description of Lands

Acres

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

388.63

Section 8: W/2

Section 12: Lots 1,2 & SW/4 NE/4

The 68.63 acres in Section 12 was farmed out by El Paso Natural Gas Company to Coastline Petroleum Company, Inc., and was communitized with the balance of the N/2 of Section 12, Township 30 North, Range 5 West, which lies outside of the present San Juan 30-5 Unit boundaries.

This proposed Amended Initial Revision of the Total Participating Area for the Dakota formation is predicated upon the determination by Northwest Pipeline Corporation, as Unit Operator, that the following San Juan 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 Coastline Petroleum's #1-57 Schalk well is located 790' from the North Line and 1650' from the West Line of Section 12, Township 30 North, Range 5 West, N.M.P.M., Rio Arriba County, New The well is situated in a communitized Mexico. drilling block in the N/2 of Section 12, which includes 68.63 acres of unit land. The well was spudded on March 31, 1973, and reached the total depth of 8222' on July 19, 1973. The Dakota Producing Interval was perforated with two shots per foot as follows: 8010'-8024', 8056'-8066', 8080'-8114', 8141'-8162', and 8176'-8190'. The perforations were hydraulically fractured with a mixture of 200,000 gallons of water and 100,000 pounds of sand. The well was flowed for four (4) hours on a back pressure test January 17, 1974. The Absolute Open Flow potential was 5147 MCF/Day with a SIPT of 2922 psia and a SIPC of 2947 psia. On the basis of this well, Lots 1 and 2 and the SW/4 NE/4 of Section 12 are recommended for inclusion in the Amended Initial Dakota Participating Area.

The Initial Participating Area for the Dakota formation of the San Juan 30-5 Unit, effective January 1, 1974, was a result of the San Juan 30-5 Unit well #37 located 1630' from the South Line and 1670' from the West Line of Section 8, Township 30 North, Range 5 West.

FIRST EXPANDED PARTICIPATING AREA -- Effective July 1, 1975

Description of Lands

Acres

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

320.00

This proposed First Revision of the Total Participating Area for the Dakota formation is predicated upon the determination by Northwest Pipeline Corporation, as Unit Operator, that the following San Juan 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 #39 is located 1830' from the North Line and 1700' 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 7860' on July 16, 1975. The Dakota Producing Interval was perforated as 7697'-7714', 7740'-7748', 7766'-7784', and 7812'-7822'. The perforated intervals were treated with 500 gallons of a 7 1/2% 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 pressures were 2754 psia on the tubing and 2761 psia on the casing.

SECOND EXPANDED PARTICIPATING AREA -- Effective August 1, 1975

Description of Lands

Acres

Township 30 North, Range 5 West, N.M.P.M. Section 17: W/2

320.00

This proposed Second Revision of the Total Participating Area for the Dakota formation is predicated upon the determination by Northwest Pipeline Corporation, as Unit Operator, that the following San Juan 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 #47 is located 1450' from the South Line and 970' 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 7945' on July 31, 1975. The Dakota Producing Interval was perforated with one shot per foot as follows: 7808', 7816', 7846', 7862', 7878', 7886', 7914', and 7924'. The perforated intervals were treated with 800 gallons of a 7 1/2% 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. seven (7) day shut-in pressures were 2643 psia on the tubing and 2645 psia 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 Amended Initial, 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 Amended Initial, 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.

Attached hereto are Schedules I, II, and III showing the proposed Amended Initial, 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 percertage of unitized substances allocated to each unitized tract, and the percentage of ownership in the tracts.

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

Copies of this letter and the Schedules are being sent to the working interest owners shown on the attached sheet.

Very truly yours,

John W. Shepardson

Land Manager

BRB:cak Enclosures

cc: Working Interest Owners

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

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

APPROVED:

Oil Conservation commission

Subject to like approval by the

United States Geological Survey and

The Commissioner of Public Lands

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

Working Interest Owners

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

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

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

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

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

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

Skelly Oil Company Attention: Mr. Dave Mullen 1860 Lincoln Street Denver, CO 80203

Coastline Petroleum Co., Inc. Suite 142 8204 Elmbrook Drive Dallas, Texas 75247