

In reply refer to:
Unit Division

December 10, 1959

Pacific Northwest Pipeline Corporation
P. O. Box 1526
Salt Lake City 10, Utah

ATTENTION: Mr. R. N. Richey

Re: San Juan 32-8 Unit Area
San Juan County, New Mexico

Gentlemen:

This is to advise you that the Commissioner of Public Lands has of this date approved your proposal to consider each of Sections 7 through 12 in Township 32-North, Range 8-West, as one complete drilling block for unit purposes, due to the irregularities in survey of these sections.

The Commissioner also approves your recommendation, that also due to irregularities in survey, the easterly portions of Sections 18, 19, 30 and 31 be regular 320 acre drilling blocks and the remaining acreage in these sections be designated as non-standard gas proration units. Our approval being subject to administrative approval by the New Mexico Oil Conservation Commission.

We are forwarding five copies of the proposal to the Director of the United States Geological Survey, Roswell,

Pacific Northwest Pipeline Corporation
Salt Lake City 10, Utah

12-10-59
(Page 2.)

C
O
P
Y
New Mexico. This office requires only two copies, therefore,
we are enclosing one copy for your files.

Very truly yours,
MURRAY E. MORGAN
Commissioner of Public Lands

BY:
Ted Bilberry, Supervisor
Oil and Gas Division

MEM/MMR/m
cc:

Oil Conservation Commission ✓
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

November 25, 1959

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
1959 PLAN OF DEVELOPMENT

On December 16, 1958, Pacific Northwest Pipeline Corporation, as Unit Operator, submitted for your approval a 1959 Plan of Development for the San Juan 32-8 Unit. This plan provided for the drilling of two Mesaverde wells at locations specified as the E/2 of Section 9, Township 31 North, Range 8 West, and the W/2 of Section 22, Township 32 North, Range 8 West. The plan further provided that at least one well would be drilled to the Dakota formation.

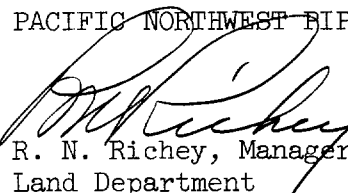
The well proposed for Section 9, Township 31 North, Range 8 West, has been completed and the well proposed for the W/2 of Section 22 is presently shut-in for initial potential tests.

Because of the failure of test wells to find deeper commercial production in the adjacent San Juan 32-7 and 32-9 Units, plans for testing the Dakota in the San Juan 32-8 Unit have been cancelled and in lieu thereof an additional Mesaverde well is being drilled in Section 9, Township 32 North, Range 8 West.

An information copy of this letter is being sent to all San Juan 32-8 Unit working interest owners.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. Richey, Manager
Land Department

RNR:CVD:jc

PACIFIC NORTHWEST PIPELINE CORPORATION

MAIL OFFICE 000

SALT LAKE CITY, UTAH

July 30, 1959

REPLY TO:
P. O. BOX 1526
SALT LAKE CITY 10, UTAH

1010 AUG 5 AM 8:30

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL
WELL

Commissioner of Public Lands
State of New Mexico
Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Box 871
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of San Juan 32-8 Unit Agreement, Pacific 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:

SAN JUAN 32-8 MESAVERDE WELL #33-9

LOCATION:	890' from North line and 1030' from East line of Section 9 T 31 N, R 8 W, N.M.P.M., San Juan County, New Mexico
ELEVATION:	6603' (grd)
SPUD DATE:	June 22, 1959
CASING:	10 3/4" cemented at 204' with 200 sx 7 5/8" cemented at 3735' with 200 sx 5 1/2" cemented at 6047' with 200 sx
TOTAL DEPTH:	6047'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

San Juan 32-8 Unit
July 30, 1959

COMPLETION METHOD: Perforated 5 1/2" casing. Sand and water fraced Cliff House, Menefee and Point Lookout at intervals between 5527'-5987'.

TUBING: 1 1/4" hung at 5943'

COMPLETION TEST DATA

DATE: July 22, 1959

SHUT-IN-PERIOD: 21 days

FINAL SHUT-IN-PRESSURES: Tubing 1121#
Casing 1121#

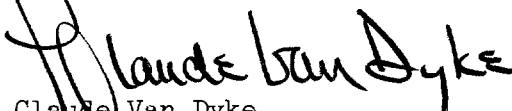
RATE THROUGH TUBING AND
3/4" CHOKE AFTER 3 HOUR
BLOW DOWN: 1848 MCF/D CAOF 4338 MCF/D

San Juan 32-8 Mesaverde Well #33-9 is located upon the drilling block described as the E/2 of Section 9, Township 31 North, Range 8 West. This drilling block was included as an intervening drilling block in the Mesaverde Participating Area effective September 1, 1958. Therefore, the Mesaverde Participating Area is not enlarged with the completion of this well and the present participation is as shown on Schedule XVI for the Fourteenth Expanded Participating Area for the Mesaverde formation effective October 1, 1958.

Copies of this letter are being sent to all the Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



Claude Van Dyke
District Manager, Land Department

CVD:jc

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

May 8, 1959

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

File 446

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 32-8 Unit
1959 Plan of Development

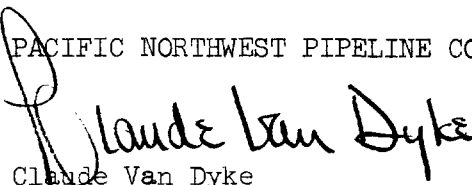
This is to advise that the 1959 Plan of Development for the San Juan 32-8 Unit has been approved as follows:

1. Supervisor, United States Geological Survey, April 5, 1959.
2. Commissioner of Public Lands, State of New Mexico, March 4, 1959.
3. Oil Conservation Commission, State of New Mexico, January 7, 1959.

Copies of this letter are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



Claude Van Dyke
District Manager, Land Department

CVD:jc

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

November 25, 1959

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
1959 PLAN OF DEVELOPMENT

On December 16, 1958, Pacific Northwest Pipeline Corporation, as Unit Operator, submitted for your approval a 1959 Plan of Development for the San Juan 32-8 Unit. This plan provided for the drilling of two Mesaverde wells at locations specified as the E/2 of Section 9, Township 31 North, Range 8 West, and the W/2 of Section 22, Township 32 North, Range 8 West. The plan further provided that at least one well would be drilled to the Dakota formation.

The well proposed for Section 9, Township 31 North, Range 8 West, has been completed and the well proposed for the W/2 of Section 22 is presently shut-in for initial potential tests.

Because of the failure of test wells to find deeper commercial production in the adjacent San Juan 32-7 and 32-9 Units, plans for testing the Dakota in the San Juan 32-8 Unit have been cancelled and in lieu thereof an additional Mesaverde well is being drilled in Section 9, Township 32 North, Range 8 West.

An information copy of this letter is being sent to all San Juan 32-8 Unit working interest owners.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. Richey, Manager
Land Department

RNR:CVD:jc

File
446
P. O. Box 4721
Roswell, New Mexico

May 4, 1959

Pacific Northwest Pipeline Corporation
P. O. Box 1526
Salt Lake City 10, Utah

Attention: Mr. R. H. Richey

Gentlemen:

Your 1959 plan of development, dated December 16, 1958, for the San Juan 32-8 unit No. 14-08-001-446, San Juan County, New Mexico, providing for the drilling of two Mesaverde wells and at least one Dakota well, has been approved on this date subject to like approval by the appropriate State officials.

The unit area is subject to drainages in secs. 9 and 10, T. 32 N., R. 8 W., by Mesaverde gas wells in sec. 19, T. 32 N., R. 7 W., and sec. 24, T. 32 N., R. 8 W., La Plata County, Colorado, and unit protection wells are required.

One approved copy of the plan is enclosed.

Very truly yours,

(Enc. 1) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Washington (w/cy of plan)
Farmington (w/cy of plan)
NMOCC, Santa Fe (✓)
Comm. of Pub. Lands, Santa Fe

In reply refer to:
Unit Division

March 4, 1959

File
446

Pacific Northwest Pipeline Corporation
P. O. Box 1526
Salt Lake City 10, Utah

ATTENTION: Mr. R. N. Richey

Re: San Juan 32-8 Unit
San Juan County, New Mexico
Plan of Development for
Calendar Year 1959.

Gentlemen:

We are enclosing one copy of the 1959 Plan of Development for San Juan 32-8 Unit Area, which was approved by the Commissioner of Public Lands March 4, 1959.

Would you please in the future send sufficient copies so this office can retain two copies for our files.

Very truly yours,
MURRAY E. MORGAN
Commissioner of Public Lands

BY:
Ted Bilberry, Supervisor
Oil and Gas Division

MEM/MMR/m
cc:

OCC- Santa Fe
USGS- Roswell

C
O
P
Y

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

File 446

January 7, 1959

C
O
P
Y

Pacific Northwest Pipeline Corporation
P. O. Box 1526
Salt Lake City 10, Utah

ATTENTION: Mr. R. N. Richey

RE: Plan of Development For
Calendar Year 1959 San
Juan 32-8 Unit San Juan
County, New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development For The Calendar Year 1959 for the San Juan 32-8 Unit San Juan 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.

One approved copy of the application is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/RLS?

cc: State Land Office - Santa Fe
US Geological Survey - Roswell

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

DEC 16 1958

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
PLAN OF DEVELOPMENT FOR CALENDAR
YEAR 1959

Pursuant to Section 10 of San Juan 32-8 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, respectfully submits herewith for your approval the 1959 Plan of Development for the subject unit providing for the drilling of the wells set out below during the period from January 1, 1959, to December 31, 1959.

The Plan of Development for 1958 on San Juan 32-8 Unit called for the drilling of three Mesaverde wells. Of these three wells two were completed successfully and have been admitted to the Mesaverde Participating Area. The other Mesaverde well was deferred to permit further evaluation of present production from that horizon.

Pacific Northwest Pipeline Corporation, as Unit Operator, in concurrence with the other working interest owners in the unit, proposes the following Plan of Development for 1959:

1. Drill the following wells:

<u>Location</u>	<u>Formation</u>	<u>Date Requirement</u>
E/2 of Sec. 9, T 31 N, R 8 W	Mesaverde	Commence by 9-1-59
W/2 of Sec. 22, T 32 N, R 8 W	Mesaverde	Commence by 10-1-59

2. Drill any wells required to prevent Unit drainage.

PACIFIC NORTHWEST PIPELINE CORPORATION

Plan of Development 1959
San Juan 32-8 Unit

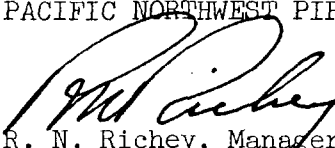
3. Drill additional Mesaverde wells which may be requested by working interest owners.
4. Drill at least one well to the Dakota formation.

Gas drilling will be employed wherever practicable and it is contemplated that casing will be set through the potentially productive gas sands. Completions will be effected by perforating the casing opposite best log indications and applying high velocity frac treatment. Multiple zone completions will be made when appropriate and properly approved.

If this drilling program is acceptable, please signify your approval, as requested under Section 10 of the Unit Agreement, in the space provided below and return an approved copy to Pacific Northwest Pipeline Corporation.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. Richey, Manager
Land Department

RNR:CVD:jc
Attachment.

APPROVED: _____
Supervisor, United States Geological Survey

DATE: _____

Subject to like approval by the appropriate State officials.

APPROVED: _____
Commissioner of Public Lands

DATE: _____

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED:  _____
Oil Conservation Commission

DATE: Jan 7, 1959

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

October 15, 1958

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
Non-commercial Well #20-4
Mesaverde Formation

Pursuant to Section 11 (a) of the San Juan 32-8 Unit Agreement #14-08-001-446 approved January 13, 1953, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that the following described well is incapable of producing unitized substances in paying quantities from the Mesaverde formation.

The San Juan 32-8 Mesaverde Well #20-4 is located 1560' from the South line and 910' from the West line of Section 4, Township 31 North, Range 8 West, San Juan County, New Mexico. This well was spudded on May 6, 1957, and reached a total depth of 5911'. The well was then completed on May 30th after being plugged back to a total depth of 5910' in the Mesaverde formation. The Mesaverde formation between 5322' and 5846' was treated with an aqua-frac process on May 27, 1957. After clean-out operations the well was shut-in for initial potential test purposes on June 4, 1957. Fifteen days later on June 19th the well was tested for three hours through 3/4" choke and gauged 703 mcf/d, CAOF measurement was 719 mcf/d, shut-in tubing pressure was 569#, shut-in casing pressure 955#. The well was then shut-in again and a swabbing unit was moved in on August 23, 1957. After swabbing for three days the well was shut-in for a second IP test. After a seven day period on September 5, 1957, the well was tested for three hours through tubing and 3/4" choke and gauged 983 mcf/d, CAOF 1197 mcf/d, SITP 822#, SICP 1018#. The committed drilling block upon which this well is located is described as the W/2 of Section 4, Township 31 North, Range 8 West, N.M.P.M., containing 320.57 acres, more or less.

Regional Supervisor
Commissioner of Public Lands
Oil Conservation Commission
September 24, 1958
Page 2

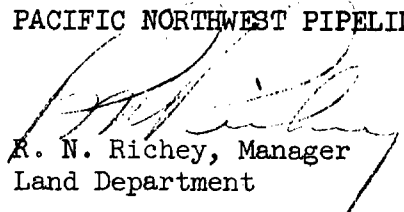
This well was connected to a gathering system in December 1957, to determine its deliverability capabilities. From the date of first connection through September 1958, the well's daily deliverability has averaged approximately 50 mcf/d. As a result of this deliverability study Pacific Northwest Pipeline Corporation, as Unit Operator, hereby determines that this well is non-commercial.

Inasmuch as this determination requires no official approval, no provision is made therefor and in the absence of disapproval, this well will continue to be considered non-commercial subject to the understanding that it may be subsequently admitted to the Mesaverde Participating Area should further operations or testing prove it to be commercial.

Copies of this letter are being sent to all Working Interest Owners of the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



R. N. Richey, Manager
Land Department

RNR:CVD:jc

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

October 7, 1958

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
FOURTEENTH EXPANDED PARTICIPATING
AREA FOR THE MESAVERDE FORMATION
Effective: October 1, 1958

Pursuant to Section 11 (a) of the San Juan 32-8 Unit Agreement, Pacific 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, and that the Participating Area for the Mesaverde Formation is accordingly expanded.

The well data upon which the FOURTEENTH EXPANSION is based is as follows:

SAN JUAN 32-8 MESAVERDE WELL #30-27

LOCATION:	990' from South line and 990' from West line of Section 27, T 32 N, R 8 W, N.M.P.M.
ELEVATION:	6638' (grd)
SPUD DATE:	July 29, 1958
CASING:	10 3/4" cemented at 248' with 200 sx 7 5/8" cemented at 3865' with 200 sx 5 1/2" cemented at 6130' with 200 sx
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

Fourteenth Expansion - Mesaverde
San Juan 32-8 Unit

TOTAL DEPTH: 6135'

COMPLETION METHOD: Perforated 5½" casing and aqua-fraced
(water only) Point Lookout, Menefee, and
Cliff House at intervals from 5524' to 6084'

TUBING: 1½" hung at 6075'

COMPLETION TEST DATA

DATE: September 15, 1958

SHUT-IN-PERIOD: 25 days (approximately)

FINAL SHUT-IN-PRESSURES: Tubing 1104#
Casing 1104#

RATE AFTER 3 HOUR BLOW
DOWN THROUGH 3/4" CHOKE
AND CASING: 2530 MCF/D, CAOF 2643 MCF/D

San Juan 32-8 Mesaverde Well #30-27, is located upon the drilling block described as the W/2 of Section 27, Township 32 North, Range 8 West. This drilling block containing 320 acres is hereby admitted to the Mesaverde Participating Area. With this completion there is created an intervening drilling block described as the W/2 of Section 22, Township 32 North, Range 8 West. This intervening drilling block containing 320 acres is hereby admitted to the Mesaverde Participating Area.

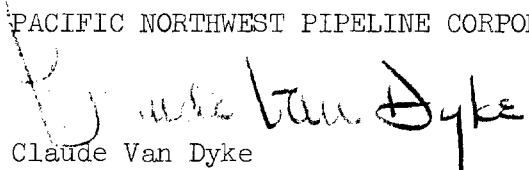
Attached is Schedule XVI showing the Fourteenth Expanded Participating Area for the Mesaverde Formation of San Juan 32-8 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

Attached as Exhibit "A" is the plat of San Juan 32-8 Unit, Mesaverde Participating Area.

Copies of this letter and schedule are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

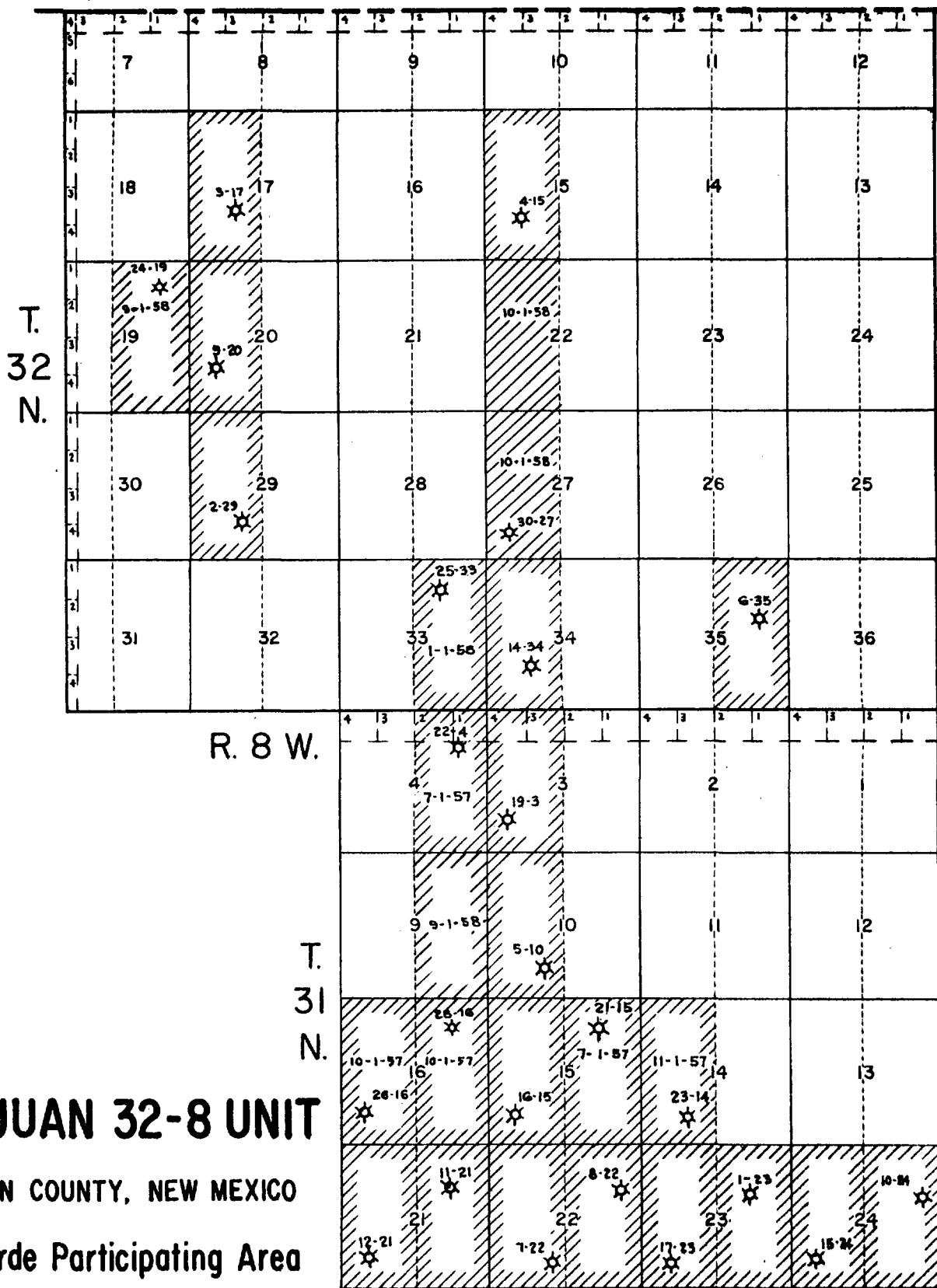
Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


Claude Van Dyke
District Manager, Land Department

CVD: jc
Attachments

EXHIBIT "A"



SAN JUAN 32-8 UNIT

SAN JUAN COUNTY, NEW MEXICO

Mesaverde Participating Area

FOURTEENTH REVISION EFFECTIVE OCTOBER 1, 1958

SCALE 1 inch = 1 mile



Participating area.



Drilling blocks added to participating area by this revision.

NOTE: Effective date of inclusion is shown on each drilling block admitted to participating area.

17, 1e 446

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

September 15, 1958

TELEPHONE OFFICE 000
REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH
SEP 17 11 51 17

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
THIRTEENTH EXPANDED PARTICIPATING
AREA FOR THE MESAVERDE FORMATION and
NOTICE OF COMPLETION OF ADDITIONAL
WELL
EFFECTIVE: SEPTEMBER 1, 1958

Pursuant to Section 11 (a) of the San Juan 32-8 Unit Agreement, Pacific 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, and that the Participating Area for the Mesaverde Formation is accordingly expanded. Also this letter is to advise of the completion of an additional well within the unit's participating area which creates an intervening drilling block.

The well data upon which the Thirteenth Expansion is based is as follows:

SAN JUAN 32-8 MESAVERDE WELL #24-19

LOCATION:	800' from North line and 890' from East line of Section 19, T 32 N, R 8 W, N.M.P.M.
ELEVATION:	6433' (DF)
SPUD DATE:	June 20, 1957
CASING:	10 3/4" cemented at 192' with 200 sx 7 5/8" cemented at 3621' with 200 sx 5 1/2" cemented at 5930' with 200 sx
TOTAL DEPTH:	5930'

Thirteenth Expansion - Mesaverde
San Juan 32-8 Unit

DRILLING METHODS: Drilled with mud to 7 5/8" casing point;
drilled with gas from 7 5/8" casing point
to total depth.

COMPLETION METHOD: Perforated 5 1/2" casing and aqua-fraced
(water only) Point Lookout, Menefee,
and Cliff House at intervals from 5368'
to 5816'

TUBING: 1 1/4" hung at 5817'

COMPLETION TEST DATA

DATE: October 28, 1957

SHUT-IN-PERIOD: 7 days

FINAL SHUT-IN-PRESSURES: Tubing 1140#
Casing 1160#

RATE THROUGH CASING: 1469 Mcfgpd, CAOF 1708 Mcfgpd

San Juan 32-8 Mesaverde Well #24-19, is located upon the drilling block described as the E/2 of Section 19, Township 32 North, Range 8 West. This well, after connection to a gathering system, has been closely watched for its deliverability capacity. In August of 1958, the well produced an average of 120 mcfpd. From this study of the well's deliverability capabilities over a period of several months Pacific Northwest Pipeline Corporation, as Unit Operator, has determined this well is capable of producing unitized substances and herewith admits this drilling block, containing 320 acres, to the participating area.

SAN JUAN 32-8 MESAVERDE WELL #28-16

LOCATION: 1460' from North line and 1800' from
East line of Section 16, T 31 N, R 8 W,
N.M.P.M.

ELEVATION: 6594' (GRD)

SPUD DATE: July 13, 1958

CASING: 10 3/4" cemented at 222' with 200 sx
7 5/8" cemented at 3696' with 200 sx
5 1/2" cemented at 5975' with 200 sx

DRILLING METHODS: Drilled with mud to 7 5/8" casing point;
drilled with gas from 7 5/8" casing point
to total depth.

TOTAL DEPTH: 5975'

Thirteenth Expansion - Mesaverde
San Juan 32-8 Unit

COMPLETION METHOD: Perforated 5½" casing and aqua-fraced
(water only) Point Lookout, Menefee
and Cliff House at intervals from 5424'
to 5938'

TUBING: 1¼" hung at 5888'

COMPLETION TEST DATA

DATE: August 7, 1958
SHUT-IN-PERIOD: 7 days
FINAL SHUT-IN-PRESSURES: Tubing 1000#
Casing 1116#
RATE THROUGH CASING: 5238 Mcfgpd, CAOF 6229 Mcfgpd

San Juan 32-8 Mesaverde Well #28-16, is located upon the drilling block described as the E/2 of Section 16, Township 31 North, Range 8 West. This drilling block was previously admitted to the Mesaverde Participating Area effective October 1, 1957. With this completion there is created an intervening drilling block described as the E/2 of Section 9, Township 31 North, Range 8 West. This intervening drilling block, containing 320 acres, is hereby admitted to the Mesaverde Participating Area.

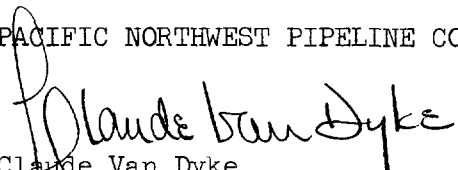
Attached is Schedule XV showing the Thirteenth Expanded Participating Area for the Mesaverde Formation of San Juan 32-8 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

Attached as Exhibit "A" is the plat of San Juan 32-8 Unit, Mesaverde Participating Area.

Copies of this letter and schedule are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

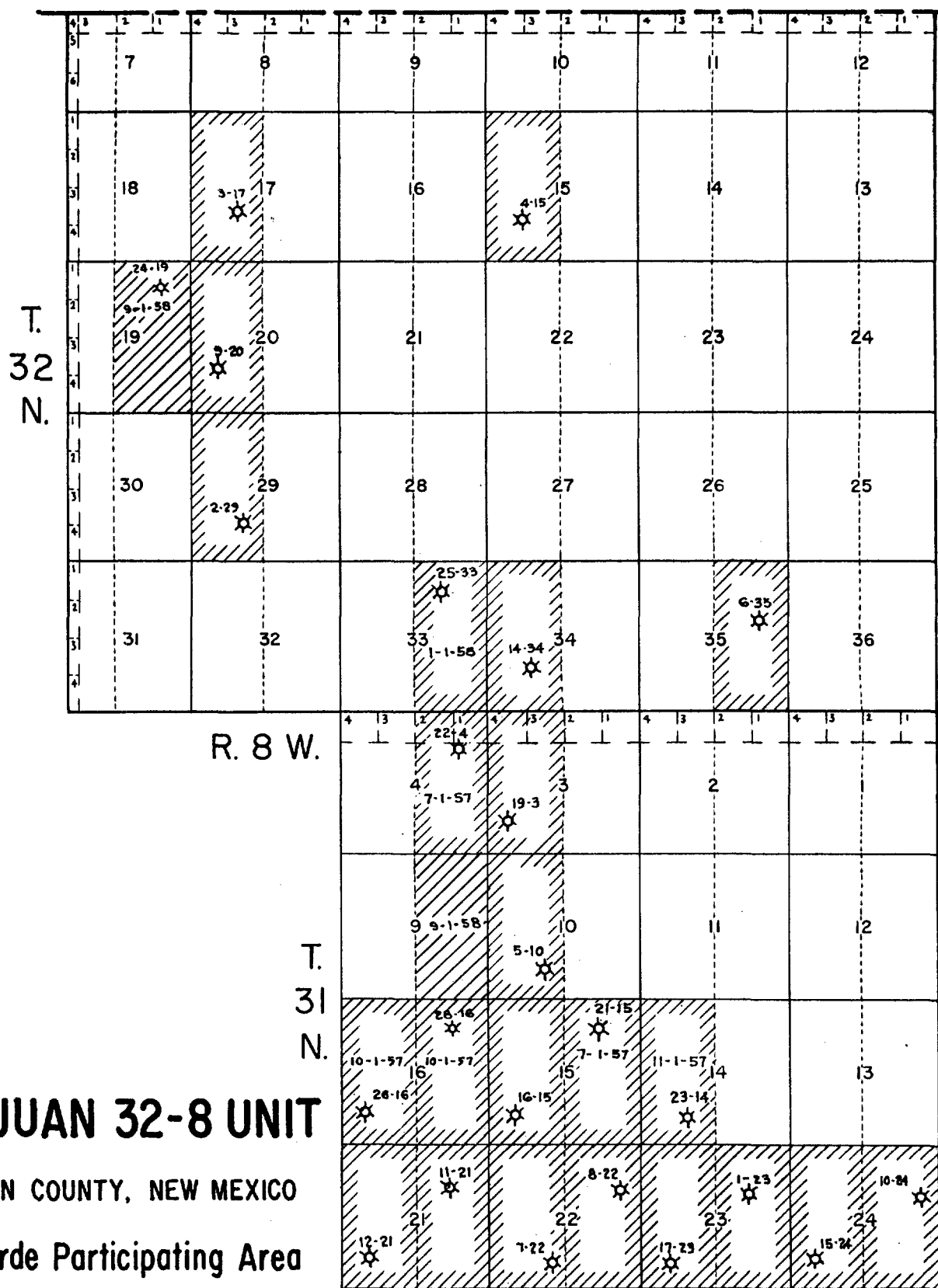
Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


Claude Van Dyke
District Manager, Land Department

CVD:jc
Attachments

EXHIBIT "A"



SAN JUAN 32-8 UNIT

SAN JUAN COUNTY, NEW MEXICO

Mesaverde Participating Area

THIRTEENTH REVISION EFFECTIVE SEPTEMBER 1, 1958

SCALE 1 inch = 1 mile



Participating area.



Drilling blocks added to participating area by this revision.

NOTE: Effective date of inclusion is shown on each drilling block admitted to participating area.

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY 0000H
MAIN OFFICE 0000H

August 15, 1958

1958 AUG 15 AM 8:58

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 8721
Roswell, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Gentlemen:

Re: Plan of Development
San Juan 32-8 Unit
San Juan County, New Mexico

Under date of January 15, 1958, Pacific Northwest Pipeline Corporation, as Operator of the referenced unit, submitted a Plan of Development calling for the drilling of Mesaverde wells during 1958 on the following-listed drilling blocks:

W/2 Section 33, Township 32 North, Range 8 West
W/2 Section 27, Township 32 North, Range 8 West
E/2 Section 16, Township 31 North, Range 8 West

Pacific, as Unit Operator, has drilled and completed the well scheduled for the E/2 Section 16, Township 31 North, Range 8 West, and is now drilling the W/2 Section 27, Township 32 North, Range 8 West. Because of unfavorable factors, Pacific does not now plan to drill during 1958 the W/2 Section 33, Township 32 North, Range 8 West, in which it is the sole working interest owner.

When the Plan of Development was formulated in late 1957, Pacific believed that additional sales of natural gas amounting to 100 million cubic feet per day, for which an application was then pending before the Federal Power Commission, would result in a substantially increased take of San Juan Basin gas, and that the drilling of all of the scheduled Mesaverde wells was necessary to augment the available supply. This proposed sale has not yet materialized.

Since formulation of the Plan it has been demonstrated that Pacific's established markets are much smaller than originally estimated. Abnormally warm weather during the past winter, together with unforeseen adverse effects of the general business recession in sales territories, have combined with failure to obtain expected new markets to further depress actual sales to a point substantially below forecasts.

F. 1.

446

Page 2

Re: San Juan 32-8 Unit
August 15, 1958

Altogether, these unfavorable sales factors have seriously affected Pacific's anticipated ability to move gas from the San Juan Basin, and have, in turn, reduced Pacific's operating income to a point requiring a corresponding reduction in drilling expenditures programed for 1958.

In an effort to balance production against sales, and income against expenditures, Pacific has completed a comprehensive review of all wells planned for drilling during the remainder of this year. This review shows that the W/2 Section 33, Township 32 North, Range 8 West, is not an intervening drilling block and that Development is not required to protect the unit against drainage. The review further shows that this drilling block is among the least economic programed for development this year.

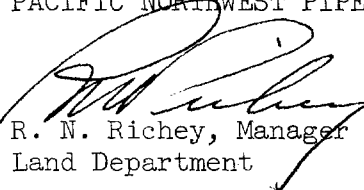
The attached plat shows the three well locations appearing on the 1958 Plan of Development and the twenty-five Mesaverde wells previously drilled, together with the initial potential and present average daily production of each. It is to be noted that only five of the twenty-four wells with pipeline connections are presently capable of producing 400 Mcf or more per day. It is to be especially noted that only one of the eight wells drilled during 1957 is now capable of delivering as much as 400 Mcf per day. Since the Mesaverde sands apparently are not responding satisfactorily to presently known and available completion techniques, Pacific feels that drilling of the W/2 Section 33, Township 32 North, Range 8 West, should be deferred until economically justified by improved recovery methods, additional market demand, or lowered development costs.

Although in this unit the average deliverability per well is low, development to date has proved the existence of large reserves of gas. Pacific believes that formations below the Mesaverde have excellent potentialities for commercial production and that the economics of further Mesaverde development will be greatly enhanced by completing deeper wells also in the Mesaverde. Pacific is now cooperating with owners of rights below the Mesaverde toward the end of commencing such deep exploration and achieving such multi-zone development as soon as possible.

We are hopeful that the business recession in our sales territories will be short lived and the additional sales for which application will shortly be made to the Federal Power Commission will be authorized. Realization of these hopes in subsequent years, together with consummation of arrangements for multiple zone operations will, we believe, improve the economic outlook for and stimulate development of the San Juan 32-8 Unit.

Very truly yours,

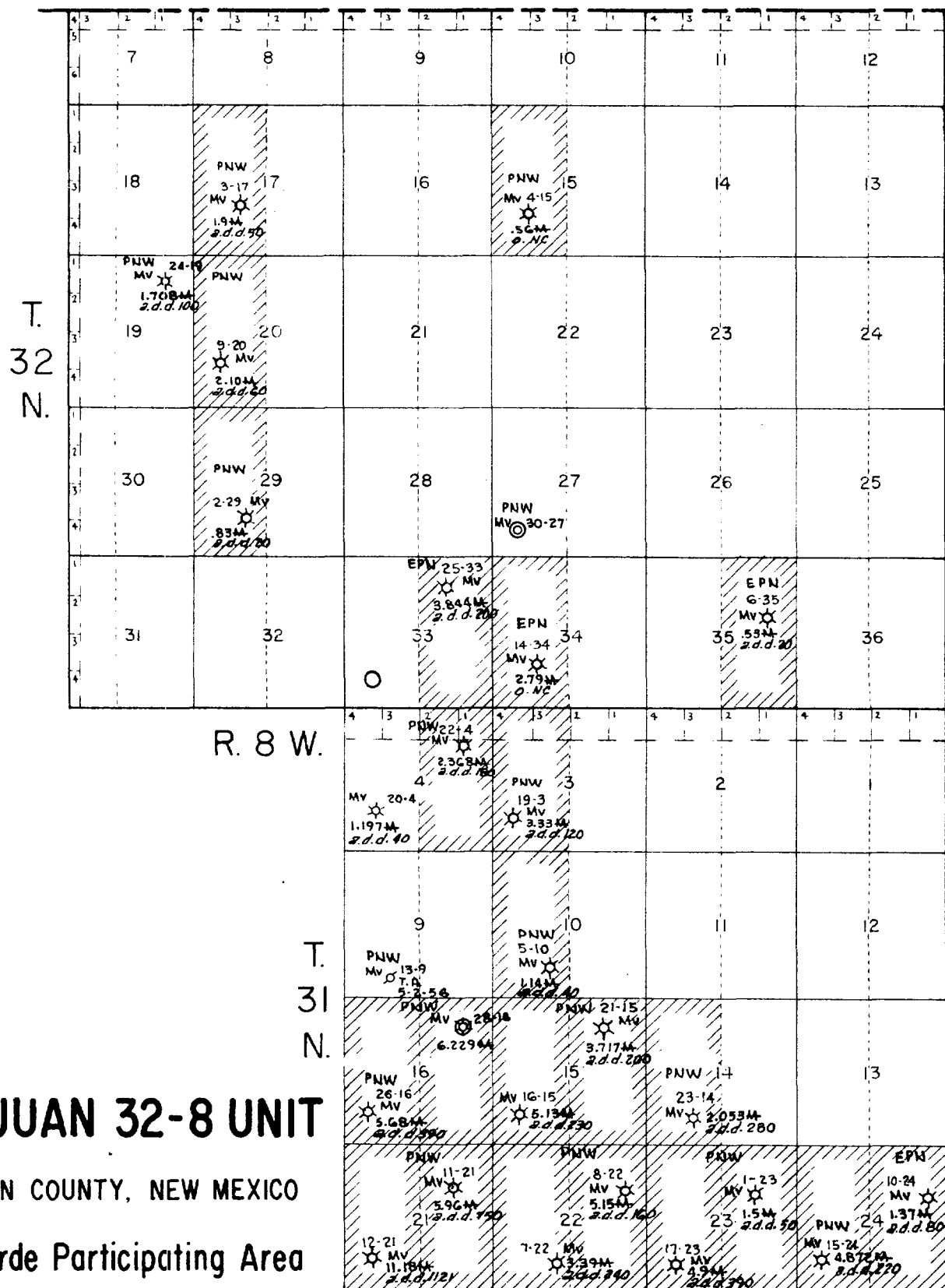
PACIFIC NORTHWEST PIPELINE CORPORATION



R. N. Richey, Manager
Land Department

RNR:jc
Encl.

EXHIBIT "A"



SCALE 1 inch = 1 mile



Participating area.

○ - 1958 Locations

a.d.d. - Average daily deliverability (MCF)

.428M - CAOF in millions (unless otherwise indicated)

N.C. - Non-connected

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

August 1, 1958

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan Unit 32-8
Revision to Exhibit "B"
Revised to August 1, 1958

We enclose for your files multiple copies of Exhibit "B" to San Juan 32-8 Unit Agreement, revised as of August 1, 1958.

Please check your interests appearing on this Exhibit against your records and if you find any discrepancies, advise us in order that the necessary correction may be made.

If you should need extra copies of this Exhibit they will be available upon request.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

Claude Van Dyke
Claude Van Dyke
District Manager, Land Department

CVD: jc

Enc.

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

May 20, 1958

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

copy 446

Gentlemen:

Re: San Juan 32-8 Unit
1958 Plan of Development

This is to advise that the 1958 Plan of Development for the San Juan 32-8 Unit has been approved as follows:

1. Supervisor, United States Geological Survey - May 13, 1958
2. Commissioner of Public Lands State of New Mexico - April 18, 1958
3. Oil Conservation Commission State of New Mexico - April 22, 1958

Copies of this letter are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

Claude Van Dyke

Claude Van Dyke
District Manager, Land Department

CVD:jc



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P.O. Box 6721
Roswell, New Mexico

May 13, 1958

Pacific Northwest Pipeline Corporation
P.O. Box 1526
Salt Lake City 10, Utah

Attention: Mr. R.N. Richey

Gentlemen:

Your plan of development dated January 15, 1958, for the San Juan 32-8 Unit Area, New Mexico, for the calendar year 1958, which plans the drilling of three Mesaverde formation wells, has been approved on this date subject to like approval by the appropriate State of New Mexico officials.

One approved copy of the plan is enclosed.

Very truly yours,

(Orig. Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Encl.

Copy to: Wash. (w/copy of plan)
Pmtn. (w/copy of plan)
Comm. of Public Lands, Santa Fe (letter only)
Oil Cons. Comm., Santa Fe (letter only) ✓

RFE:ans:baw
5-13-58

*File
Case
446*

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

April 22, 1958

446

C
O
P
Y

Pacific Northwest Pipeline Corporation
P. O. Box 1526
Salt Lake City 10, Utah

Attention: Mr. R. N. Richey

Re: San Juan 32-8 Unit
San Juan County, New Mexico
Plan of Development For
Calendar Year 1958

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1958 Plan of Development for the San Juan 32-8 Unit area, San Juan 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.

One approved copy of the plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

RLS:omg

cc: U. S. Geological Survey, Roswell
Commissioner of Public Lands, Santa Fe, New Mexico

File
case 446

In reply refer to:
Unit Division

April 18, 1958

Pacific Northwest Pipeline Corporation
P. O. Box 1526
Salt Lake City 10, Utah

Re: San Juan 32-8
San Juan County, New Mexico
PLAN OF DEVELOPMENT FOR CALENDAR
YEAR 1958

Attention: Mr. R. N. Richey

Gentlemen:

We are enclosing one copy of your Plan of Development for the Calendar Year 1958, which was approved by the Commissioner of Public Lands April 18, 1958.

Very truly yours,

MURRAY E. MORGAN,
Commissioner of Public Lands

BY:

Ted Bilberry, Supervisor
Oil and Gas Division

MEM/MMR/s

cc:

USGS

OCC ✓

71-
440

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

February 13, 1958

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 32-8 Unit
14-08-001-446
TWELFTH EXPANDED PARTICIPATING
AREA FOR THE MESAVERDE FORMATION
Effective: January 1, 1958

Under date of February 10, 1958, Pacific expanded the Mesaverde Participating Area, effective January 1, 1958.

On page 9 of Schedule XIV attached to our letter it has come to our attention that we inadvertently inserted for Tract No. 3 the percentage figure of 2.717004%. Please correct your copy as to this interest, to read 2.717044%.

Copies of this letter are being sent to all Working Interest Owners in the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

Claude Van Dyke

Claude Van Dyke
District Manager, Land Department

CVD:jc

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

February 10, 1958

File
446
REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
P. O. Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
P. O. Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 32-8 Unit
No. 14-08-001-446
San Juan County, New Mexico
TWELFTH EXPANDED PARTICIPATING
AREA FOR THE MESAVERDE FORMATION
Effective January 1, 1958

Pursuant to Section 11 (a) of the San Juan 32-8 Unit Agreement, Pacific 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, and that the Participating Area for the Mesaverde formation is accordingly expanded.

This well is as follows:

The San Juan 32-8 Unit No. 25-33 Well is located 1,090' from the North line and 1,600' from the East line of Section 33, Township 32 North, Range 8 West, San Juan County, New Mexico. This well was spudded on September 26, 1957, and completed on November 14, 1957, in the Mesaverde formation at a total depth of 6,095'. The Mesaverde formation between 5,654'-6,072' was perforated and treated with a water fracturing process. After being shut-in for seven (7) days, the well was tested on December 3, 1957, and following a three (3) hour blow-down period

San Juan 32-8 Unit
Twelfth Expanded Participating
Area for the Mesaverde Formation
Page 2

gauged 1,308 MCFGPD through 3/4" choke and 3,847
MCFGPD by the calculated absolute open flow method,
with a SIPC of 1,032# and a SITP of 1,032#. The
committed Drilling Block upon which this well is lo-
cated is described as the E/2 of Section 33, Town-
ship 32 North, Range 8 West, containing 320 acres.

Attached is Schedule XIV showing the Twelfth Expanded Participating Area
for the Mesaverde formation and describes the Expanded Participating Area,
showing the percentage of unitized substances allocated to each unitized
tract. Also attached is Exhibit "A" which is a plat of the 32-8 Unit
Mesaverde Participating Area.

Copies of this letter are being sent to all the Working Interest Owners
within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

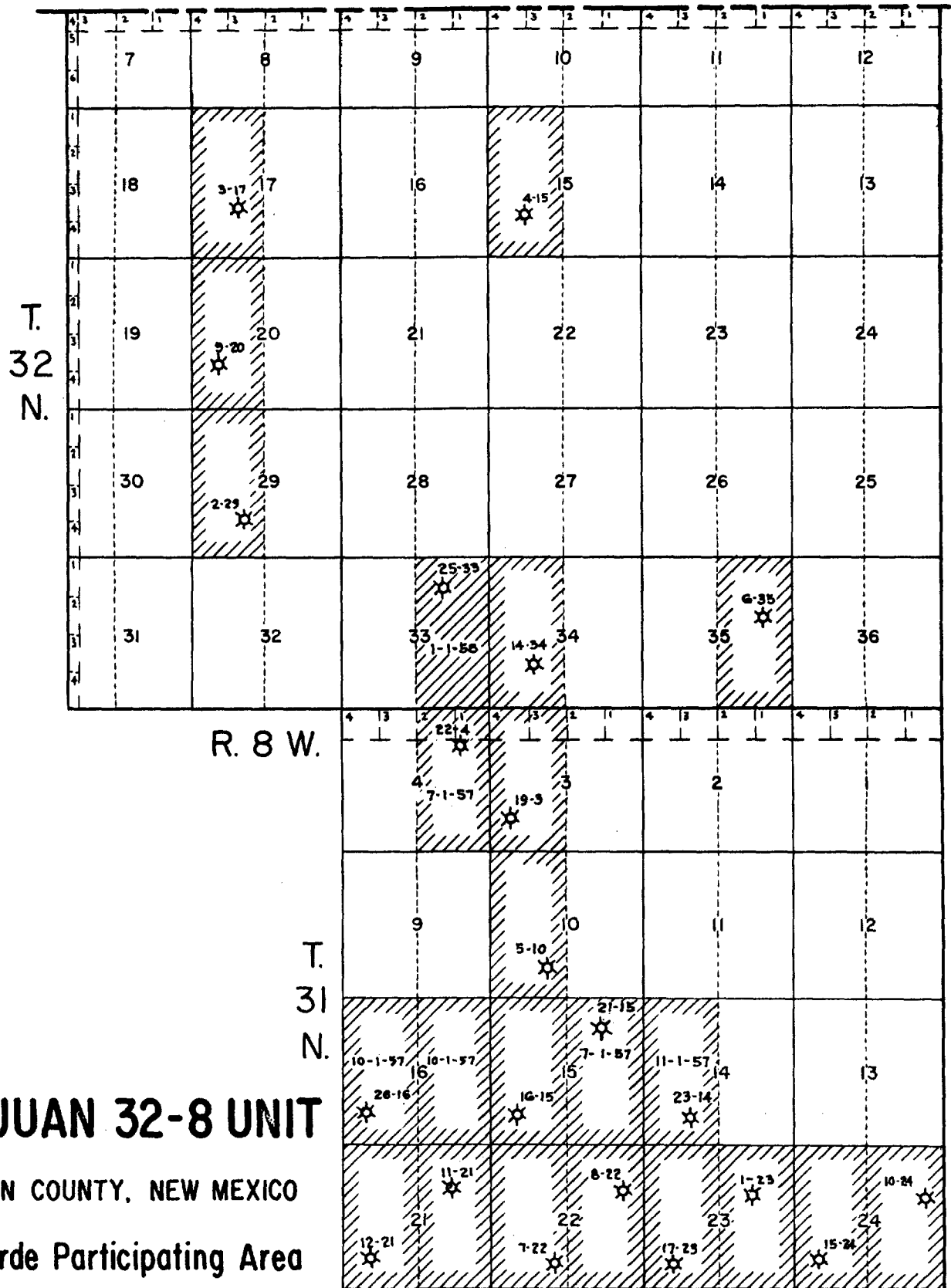
Claude Van Dyke

Claude Van Dyke
District Manager, Land Department

CVD:jc

Attachments

EXHIBIT "A"



SCALE 1 inch = 1 mile



Participating area.



Drilling blocks added to participating area by this revision.

NOTE: Effective date of inclusion is shown on each drilling block admitted to participating area.

TELETYPE UNIT OFFICE 000

JAN 15 AM 8:25

File
446

January 15, 1958

Pacific Northwest Pipeline Corporation
P. O. Box 1526
Salt Lake City, Utah

Re: San Juan Unit 82-8
Supplement to 1957
PLAN OF DEVELOPMENT

Attention: Mr. Van Dyke

Gentlemen:

In reply to our telephone conversation of today, by this letter we are herewith approving the Supplement to your 1957 Plan of Development, which is dated June 26, 1957.

The date of our approval shall be effective as of July 1, 1957, and effective as of the date the United States Geological Survey, approved.

Very truly yours,



MURRAY E. MORGAN
Commissioner of Public Lands

MEM/MOR/s
cc:

The Oil Conservation Commission ✓
of the State of New Mexico
Santa Fe, New Mexico

United States Geological Survey
P. O. Box 6721
Roswell, New Mexico

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

January 15, 1958

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Box 791
Santa Fe, New Mexico

Re: San Juan 32-8 Unit No. 14-08-001-446
San Juan County, New Mexico
PLAN OF DEVELOPMENT FOR CALENDAR
YEAR 1958

Oil Conservation Commission
State of New Mexico
Box 871
Santa Fe, New Mexico

Gentlemen:

In summary of the 1957 Plan of Development and the disposition of the wells approved thereon Pacific Northwest Pipeline Corporation, as Unit Operator of San Juan 32-8 Unit, filed a Plan of Development for the calendar year 1957 on December 20, 1956. This Plan proposed the drilling of seven (7) Mesaverde wells in 32-8 Unit. The Plan of Development was approved by the United States Geological Survey on February 4, 1957, the Commissioner of Public Lands on February 15, 1957, and the Oil Conservation Commission on February 28, 1957. On June 26, 1957, Pacific at the request of the Commissioner of Public Lands, supplemented the 1957 Plan of Development by the addition of a well to be located in the SW/4 of Section 16, Township 31 North, Range 8 West. This Supplemental Plan of Development was approved by the United States Geological Survey on July 5, 1957, the Commissioner of Public Lands on July 1, 1957, and the Oil Conservation Commission on August 27, 1957.

The eight (8) wells on the Supplemental 1957 Plan of Development which were approved were completed as follows:

<u>Well Name</u>	<u>Location</u>	<u>Date Completed</u>	<u>I. P.</u>
#19-3	SW/4 Section 3, T 31 N, R 8 W	5-16-57	3,330 MCF CAOF
#20-4	SW/4 Section 4, T 31 N, R 8 W	9-5-57	1,197 MCF CAOF
#22-4	NE/4 Section 4, T 31 N, R 8 W	6-19-57	2,368 MCF CAOF
#21-15	NE/4 Section 15, T 31 N, R 8 W	6-30-57	3,470 MCF CAOF
#23-14	SW/4 Section 14, T 31 N, R 8 W	10-4-57	2,053 MCF CAOF
#24-19	NE/4 Section 19, T 32 N, R 8 W	9-11-57	1,708 MCF CAOF
#25-33	NE/4 Section 33, T 32 N, R 8 W	12-3-57	3,844 MCF CAOF
#26-16	SW/4 Section 16, T 31 N, R 8 W	9-13-57	5,680 MCF CAOF

San Juan 32-8 Unit - Plan of Development
January 15, 1958
Page 2

Upon completion of the 1957 Plan of Development with its indicated results, Pacific, as Unit Operator in concurrence with the other Working Interest Owners in the unit, submits herewith the 1958 Plan of Development for approval pursuant to Section 10 of San Juan 32-8 Unit Agreement providing for the drilling of the following wells for the period from January 1, 1958 to December 31, 1958.

<u>LOCATION</u>	<u>FORMATION</u>
W/2 Section 33, T 32 N, R 8 W	Mesaverde
W/2 Section 27, T 32 N, R 8 W	Mesaverde
E/2 Section 16, T 31 N, R 8 W	Mesaverde

The above wells will be drilled to intermediate casing point with conventional hydraulic rotary tools and the remainder of the hole will be drilled with gas tools. After running production casing through the Mesaverde, the gas sands will be selectively perforated and fraced.

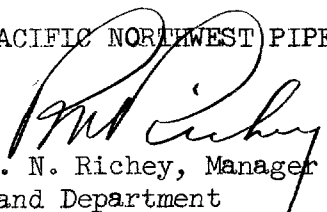
In addition to the above wells, Pacific Northwest Pipeline Corporation, as Unit Operator, also plans to drill any offset wells required to prevent drainage of unitized substances and any other wells deemed necessary or desirable by the Unit Operator and the Working Interest Owners in the affected drilling blocks.

If this drilling program is acceptable, please signify your approval, as required under Section 10 of the Unit Agreement, in the space provided below and return an approved copy to Pacific Northwest Pipeline Corporation.

Copies of this drilling program have been sent to the Working Interest Owners shown on the attached sheet.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. Richey, Manager
Land Department

RNR:CVD:jc

APPROVED: _____ DATE: _____
Supervisor, United States Geological Survey
Subject to like approval by the appropriate State officials

APPROVED: _____ DATE: _____
Commissioner of Public Lands
Subject to like approval by the U.S.G.S. and Oil Conservation Commission

APPROVED: _____ DATE: _____
Oil Conservation Commission
Subject to like approval by the U.S.G.S. and Commissioner of Public Lands

SAN JUAN 32-8 UNIT

WORKING INTEREST OWNERS

Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma
Attention: R. F. Rood

Wood River Oil & Refining Company, Inc.
321 West Douglas
Wichita, Kansas

Sunray Mid-Continent Oil Company
Post Office Box 2039
Tulsa 2, Oklahoma
Attention: M. S. Patton, Jr.

Pan American Petroleum Corporation
P. O. Box 1410
Fort Worth, Texas
Attention: Mr. E. V. Hewitt

Skelly Oil Company
Skelly Building
Tulsa 2, Oklahoma
Attention: Mr. A. L. Cashman

El Paso Natural Gas Company
P. O. Box 1492
El Paso, Texas
Attention: Mr. Sam Smith

General American Oil Company of Texas
Meadows Building
Dallas 6, Texas
Attention: Mr. W. P. Barnes

The Texas Company
P. O. Box 1720
Fort Worth, Texas
Attention: Mr. E. W. Lewis

C 446

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

November 8, 1957

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
ELEVENTH EXPANDED PARTICIPATING AREA
FOR THE MESAVERDE FORMATION
EFFECTIVE: NOVEMBER 1, 1957

Pursuant to Section 11 (a) of the San Juan 32-8 Unit Agreement, Pacific 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, and that the Participating Area for the Mesaverde Formation is accordingly expanded.

The well data upon which the Eleventh Expansion is based is as follows:

SAN JUAN 32-8 MESAVERDE WELL #23-14

LOCATION:	990' from South line and 1650' from West line of Section 14, T 31 N, R 8 W, N.M.P.M.
ELEVATION:	6654' (DF)
SPUD DATE:	June 5, 1957
CASING:	10 3/4" cemented at 182' with 200 sx 7 5/8" cemented at 3804' with 200 sx 5 1/2" cemented at 6030' with 150 sx
TOTAL DEPTH:	6030'

Eleventh Expansion - Mesaverde
San Juan 32-8 Unit

DRILLING METHODS: Drilled with mud to 7 5/8" casing point;
drilled with gas from 7 5/8" casing point
to total depth.

COMPLETION METHOD: Perforated 5 1/2" casing and aqua-fraced (water
only) Point Lookout intervals from 5824' to
5998', Menefee intervals from 5522' to 5792'
and Cliff House intervals from 5478' to 5512'

TUBING: 1 1/4" hung at 5998'

COMPLETION TEST DATA

DATE: October 4, 1957

SHUT-IN-PERIOD: 26 days

FINAL-SHUT-IN-PRESSURES: Tubing 1065#
Casing 1113#

RATE THROUGH CASING: 2053 Mcfgpd, CAO F

San Juan 32-8 Mesaverde Well #23-14, is located upon the drilling block described as the W/2 Section 14, Township 31 North, Range 8 West. This drilling block, containing 320 acres, is hereby admitted to the participating area.

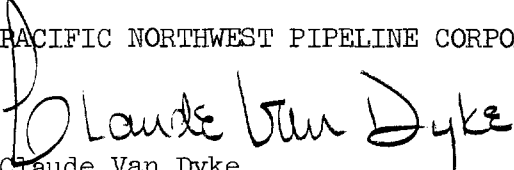
Attached is Schedule XIII showing the Eleventh Expanded Participating Area for the Mesaverde Formation of San Juan 32-8 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

Attached as Exhibit "A" is the plat of San Juan 32-8 Unit Mesaverde Participating Area.

Copies of this letter and schedule are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

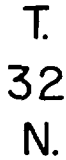


Claude Van Dyke
District Manager, Land Department

CVD:jc

Attachments

EXHIBIT "A"



R. 8 W.

T.
31
N.

SAN JUAN 32-8 UNIT

SAN JUAN COUNTY, NEW MEXICO

Mesaverde Participating Area

ELEVENTH REVISION EFFECTIVE NOVEMBER 1, 1957

SCALE 1 inch = 1 mile



Participating area.



Drilling blocks added to participating area by this revision.

NOTE: Effective date of inclusion is shown on each drilling block admitted to participating area.

File 446

PACIFIC NORTHWEST PIPELINE CORPORATION
MAIN OFFICE OCC

SALT LAKE CITY, UTAH

October 16, 1957

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

1557 OCT 16 PM 1:04

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 32-8 Unit
B.L.M. Decision dated October 10, 1957
Affecting SF 079267
Unit Tract #10
San Juan County, New Mexico

We have been advised by the Bureau of Land Management, Santa Fe, New Mexico, of their decision dated October 10, 1957, concerning a Resurvey affecting a portion of the land in oil and gas lease SF 079267 and further described as Unit Tract #10. The land in this lease is redescribed as follows:

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

Section 1: Lots 5 to 20 incl.
Section 12: All
Section 13: All
Containing 1881.85 acres.

This Resurvey causes a reduction of the total acres covered by this lease in the amount of 40.55 acres and thus reduces the total number of acres constituting the Unit from 27,500.28 acres to 27,459.73 acres.

Copies of this letter are being sent to all Working Interest Owners within the 32-8 Unit with the request that their records be changed to reflect the above information.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

Claude Van Dyke
Claude Van Dyke

District Manager, Land Department

CVD:jc

RS
446
PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

October 9, 1957

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

1957 OCT 11 AM 9:17
IN OFFICE 000

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
TENTH EXPANDED PARTICIPATING AREA
FOR THE MESAVERDE FORMATION
EFFECTIVE: OCTOBER 1, 1957

Pursuant to Section 11 (a) of the San Juan 32-8 Unit Agreement, Pacific 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, and that the Participating Area for the Mesaverde Formation is accordingly expanded.

The well data upon which the Tenth Expansion is based is as follows:

SAN JUAN 32-8 MESAVERDE WELL #26-16

LOCATION:	1150' from South line and 845' from West line of Section 16, T 31 N, R 8 W, N.M.P.M.
ELEVATION:	6596' (DF)
SPUD DATE:	July 21, 1957
CASING:	10 3/4" cemented at 220' with 200 sx 7 5/8" cemented at 3675' with 200 sx 5 1/2" cemented at 5960' with 200 sx
TOTAL DEPTH:	5960'

Tenth Expansion - Mesaverde
San Juan 32-8 Unit

DRILLING METHODS: Drilled with mud to 7 5/8 " casing point;
drilled with gas from 7 5/8" casing point
to total depth.

COMPLETION METHOD: Perforated 5 1/2" casing and aqua-fraced (water
only) Point Lookout intervals from 5770' to
5878', Menefee intervals from 5448' to 5714'
and Cliff House intervals from 5380' to 5424'.

TUBING: 1 1/4" hung at 5854'

COMPLETION TEST DATA

DATE: September 5, 1957

SHUT-IN-PERIOD: 12 days

FINAL SHUT-IN-PRESSURES: Tubing 910#
Casing 1101#

RATE THROUGH CASING: 3148 Mcfgpd, CAOF

San Juan 32-8 Mesaverde Well #26-16, is located upon the drilling block described as the W/2 Section 16, Township 31 North, Range 8 West. This drilling block, containing 320 acres, is hereby admitted to the participating area. In addition, an intervening drilling block described as the E/2 of Section 16, Township 31 North, Range 8 West, is created by the completion of San Juan 32-8 Mesaverde Well #26-16 and the previous completion of San Juan 32-8 Mesaverde Well #16-15 located upon the drilling block described as the W/2 of Section 15, Township 31 North, Range 8 West.

This intervening drilling block containing 320 acres is hereby admitted to the Mesaverde Participating Area in accordance with the provisions of Section 11 of San Juan 32-8 Unit Agreement.

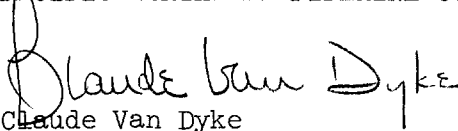
Attached is Schedule XII showing the Tenth Expanded Participating Area for the Mesaverde Formation of San Juan 32-8 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

Attached as Exhibit "A" is the plat of San Juan 32-8 Unit Mesaverde Participating Area.

Copies of this letter and schedule are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

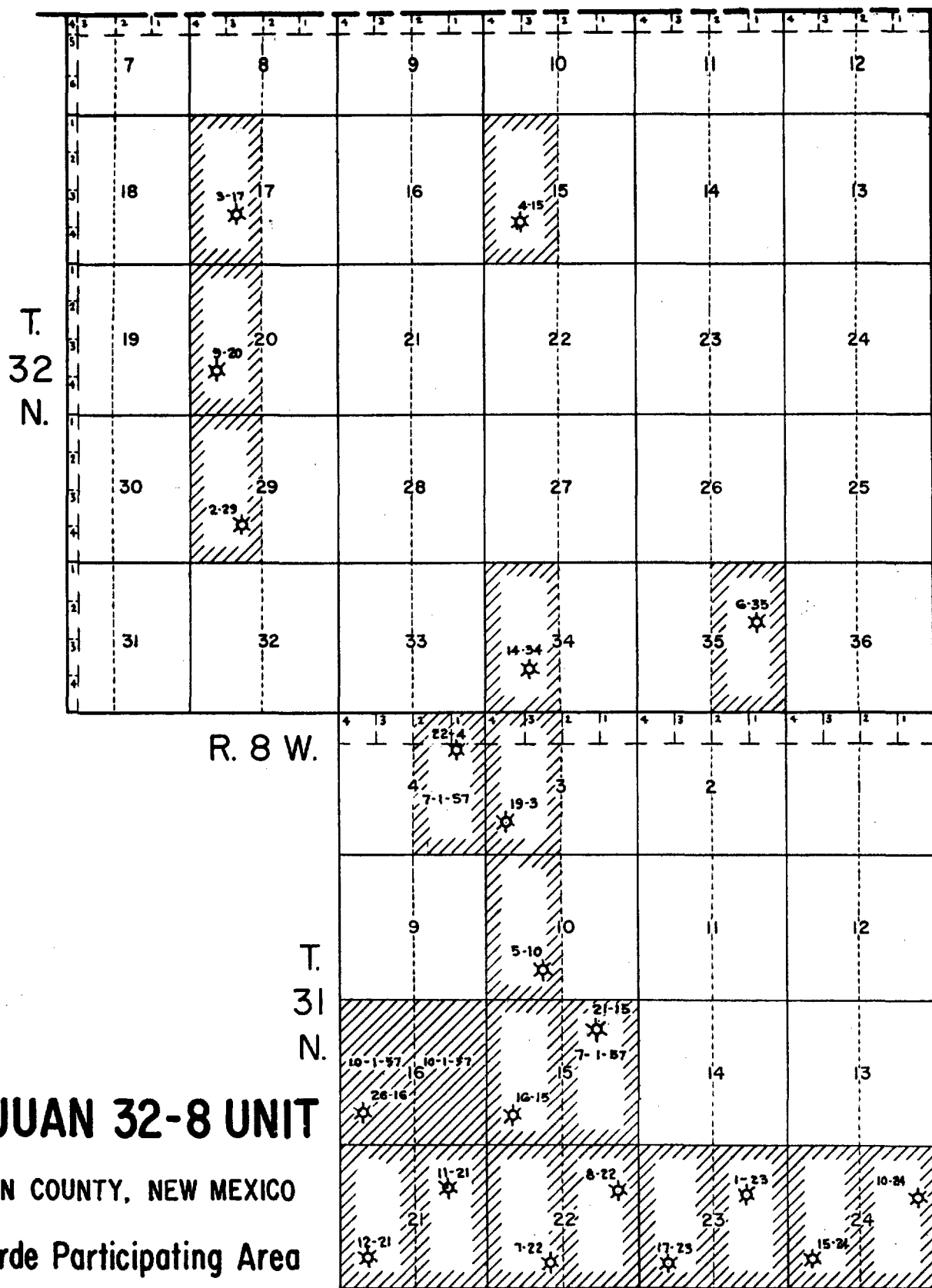
PACIFIC NORTHWEST PIPELINE CORPORATION


Claude Van Dyke
District Manager, Land Department

CVD:jc

Attachments

EXHIBIT "A"



SCALE 1 inch = 1 mile



Participating area.



Drilling blocks added to participating area by this revision.

NOTE: Effective date of inclusion is shown on each drilling block admitted to participating area.

OIL CONSERVATION COMMISS

P. O. BOX 871

SANTA FE, NEW MEXICO

August 26, 1957

C
O
P
Y
Pacific Northwest Pipeline Corporation
P. O. Box 1526
Salt Lake City 10, Utah

Attention: Mr. Claude Van Dyke

Re: San Juan 32-8 Unit
San Juan County, N.M.
1957 Supplemental Plan
of Development

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Supplemental Plan of Development for calendar year 1957 for the subject unit area, dated June 26, 1957, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the supplemental plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/DSN/ir

cc: U. S. G. S. - Roswell, New Mexico

Commissioner of Public Lands - Santa Fe, N.M.

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

July 18, 1957

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

MAIL OFFICE 10000

1000 JUL 18 1957

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-8 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that two additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this unit, and that the Participating Area for the Mesaverde Formation is accordingly expanded.

The well data upon which this Ninth Expansion is based is as follows:

SAN JUAN 32-8 MESAVERDE WELL # 22-4

LOCATION:	1240' from North line and 960' from East line of Section 4, T 31 N, R 8 W, N.M.P.M.
ELEVATION:	6716' (DF)
SPUD DATE:	April 11, 1957
CASING:	10 3/4" cemented at 218.26' with 300 sx 7 5/8" cemented at 3900.19' with 200 sx 5 1/2" cemented at 6151.63' with 190 sx
TOTAL DEPTH:	6133'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

Re: San Juan 32-8 Unit # 14-08-001-446
San Juan County, New Mexico
NINTH EXPANDED PARTICIPATING
AREA FOR THE MESAVERDE FORMATION
EFFECTIVE: July 1, 1957

NINTH EXPANSION - Mesaverde
San Juan 32-8 Unit

July 18, 1957

COMPLETION METHOD: Perforated 5½" casing and aqua-fraced
(water only) Point Lookout intervals
from 5938' to 6094', Menefee intervals
from 5640' to 5900' and Cliff House
intervals from 5578' to 5620'.

TUBING: 1¼" hung at 6072'

COMPLETION TEST DATA

DATE: June 19, 1957

SHUT-IN-PERIOD: 12 days

FINAL SHUT IN PRESSURES: Tubing 1080#
Casing 1085#

RATE THROUGH CASING 2368 Mcfgpd, CAOF

San Juan 32-8 Mesaverde Well #22-4 is located upon the Drilling block described as the E½ of Section 4, Township 31 North, Range 8 West, N.M.P.M. This drilling block containing 320.47 acres is hereby admitted to the participating area.

SAN JUAN 32-8 MESAVERDE WELL # 21-15

LOCATION: 960' from North line and 1146' from
East line of Section 15, T 31 N,
R 8 W, N.M.P.M.

ELEVATION: 6560' (grd)

SPUD DATE: May 24, 1957

CASING: 10 3/4" cemented at 197' with 210 sx
7 5/8" cemented at 3743' with 150 sx
5 1/2" cemented at 5950' with 150 sx

TOTAL DEPTH: 5950'

DRILLING METHODS: Drilled with mud to 7 5/8" casing point;
drilled with gas from 7 5/8" casing
point to total depth.

NINTH EXPANSION - Mesaverde
San Juan 32-8 Unit

July 18, 1957

COMPLETION METHOD: Perforated 5½" casing and aqua-fraced
(water only) Point Lookout intervals
from 5754' to 5922', Menefee intervals
from 5470' to 5626'.

TUBING: 1½" hung at 5910'

COMPLETION TEST DATA

DATE: June 30, 1957

SHUT-IN-PERIOD: 7 days

FINAL SHUT IN PRESSURES: Tubing 864#
Casing 948#

RATE THROUGH TUBING AND 3/4"
CHOKE BY PITOT TUBE AFTER 3
HOUR BLOW DOWN: 3,470 Mcfgpd.

San Juan 32-8 Mesaverde Well # 21-15 is located upon the drilling block described as the E/2 of Section 15, Township 31 North, Range 8 West, N.M.P.M. This drilling block containing 320 acres is hereby admitted to the participating area.

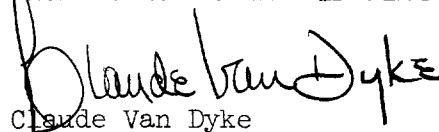
Attached is Schedule XI showing the Ninth Expanded Participating Area for the Mesaverde Formation of San Juan 32-8 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract.

Attached also is Exhibit "A", a plat of San Juan 32-8 Unit indicating the Mesaverde Participating Area.

Copies of this letter and schedule are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

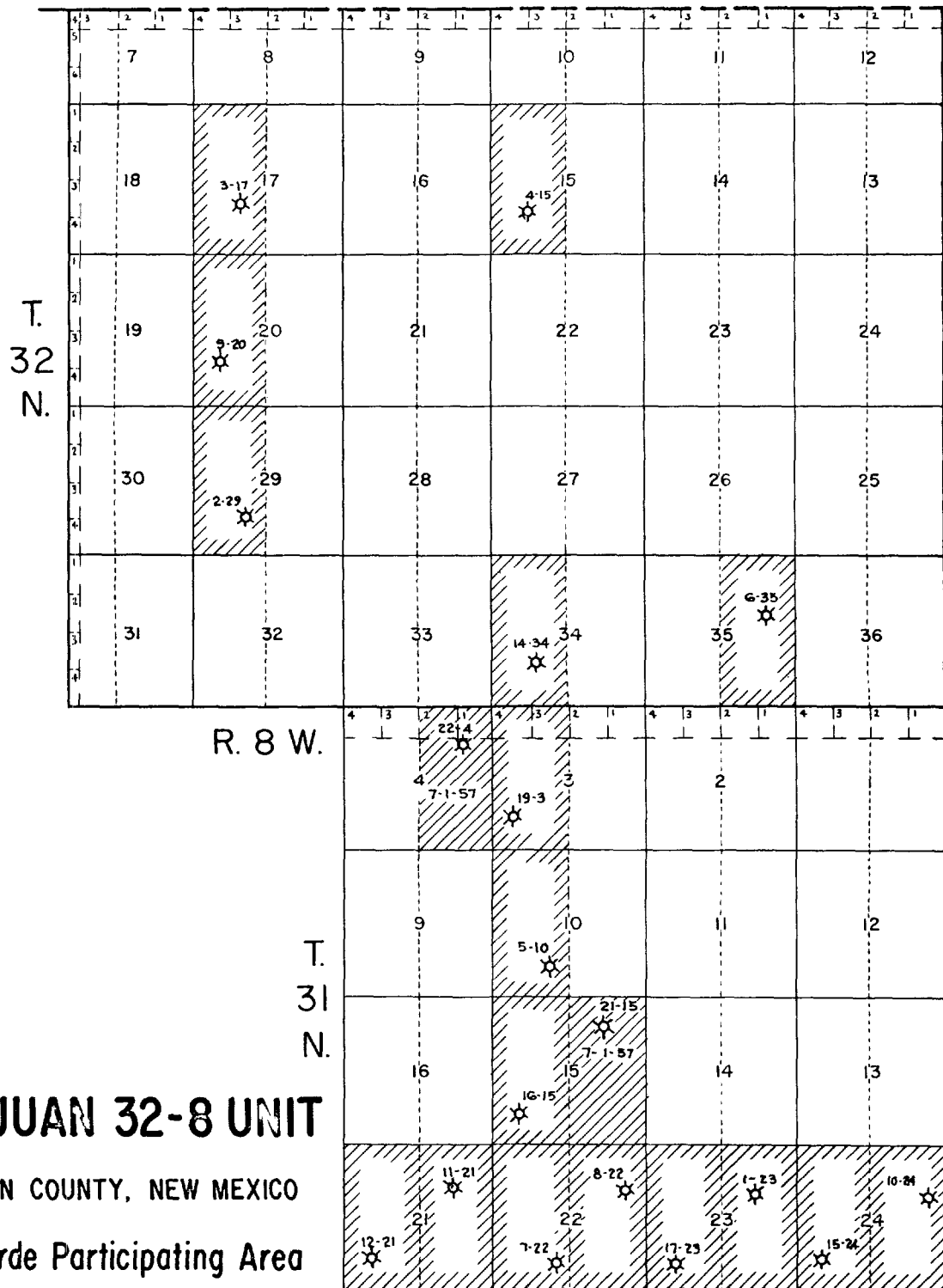


Claude Van Dyke
District Manager, Land Department

CVD:jc

Attachments

EXHIBIT "A"



SAN JUAN 32-8 UNIT

SAN JUAN COUNTY, NEW MEXICO

Mesaverde Participating Area

NINTH REVISION EFFECTIVE JULY 1, 1957

SCALE 1 inch = 1 mile



Participating area.



Drilling blocks added to participating area by this revision.

NOTE: Effective date of inclusion is shown on each drilling block admitted to participating area.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 6721
Roswell, New Mexico

July 5, 1957

Pacific Northwest Pipeline Corporation
P. O. Box 1526
Salt Lake City 10, Utah

Attention: Mr. Claude Van Dyke

Gentlemen:

Your amended plan of development dated June 26, 1957, for the 32-8 Unit Area, San Juan County, New Mexico, for the calendar year 1957, has been approved on this date subject to like approval by the appropriate State of New Mexico officials.

One approved copy of the plan is enclosed.

Very truly yours,

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Enclosure

Copy to: Washington (w/copy of plan)
Farmington (w/copy of plan)
Comm. of Public Lands, Santa Fe (w/copy of plan)
Oil Cons. Comm., Santa Fe (letter only)

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

June 26, 1957

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871

Gentlemen:

Re: San Juan Unit 32-8
Supplement to 1957
Plan of Development

Pursuant to the request made by the Commissioner of Public Lands, State of New Mexico, Pacific Northwest Pipeline Corporation as Operator of San Juan 32-8 Unit herewith supplements the 1957 Plan of Development for the subject Unit by the inclusion of one additional well to be located as follows:

W/2 Section 16, Township 31
North, Range 8 West.

The drilling block upon which this well will be located is owned 100% by Pacific Northwest Pipeline Corporation.

Copies of this letter are being sent to all Working Interest Owners within San Juan 32-8 Unit.

Approved.....19.....

A. L. Carter
.....
Secretary-Director

NEW MEXICO OIL CONSERVATION COMMISSION

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

Claude Van Dyke
Claude Van Dyke
District Manager, Land Department

CVD:jc

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

June 13, 1957

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Box 871
Santa Fe, New Mexico

Gentlemen:

re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELL

Pursuant to Section 11 (a) of San Juan 32-8 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that an additional well, capable of producing unitized substances in paying quantities from the Mesa-verde Formation, has been completed upon acreage committed to this unit.

The well data is as follows:

SAN JUAN 32-8 MESAVERDE WELL #19-3

LOCATION:	1100' from South line and 800' from West line of Section 3, T-31-N, R-8-W, N.M.P.M.
ELEVATION:	6690' (grd)
SPUD DATE:	March 21, 1957
CASING:	10 3/4" cemented at 196' with 230 sx 7 5/8" cemented at 3900' with 150 sx 5 1/2" cemented at 6100' with 150 sx
TOTAL DEPTH:	6100'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

San Juan 32-8 Unit

June 13, 1957

COMPLETION METHOD: Perforated 5 1/2" casing. Aqua-fraced (water only) Cliff House intervals from 5584' to 5594' and Menefee intervals from 5634' to 5884' and Point Lookout intervals from 5918' to 6048'.

TUBING: 1 1/4" hung at 6041'

COMPLETION TEST DATA

DATE: May 16, 1957

SHUT-IN-PERIOD: 7 days

FINAL SHUT-IN
PRESSURES: Tubing 950
Casing 1132

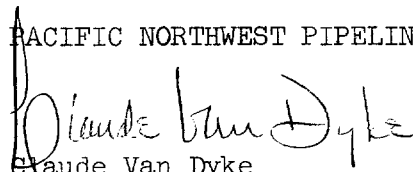
RATE THROUGH TUBING
AND 3/4" CHOKE AFTER
3 HOUR BLOW DOWN: CAOF 3330 MCFGPD

San Juan 32-8 Mesaverde Well 19-3 is located upon the drilling block described as the W/2 of Section 3, Township 31 North, Range 8 West. This drilling block was included as an intervening drilling block in the Mesaverde Participating Area effective May 1, 1956. Therefore, the Mesaverde Participating Area is not enlarged and the present participation is as shown on Schedule XI for the Ninth Expanded Participating Area for the Mesaverde Formation, effective June 1, 1957.

Copies of this letter are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



Claude Van Dyke
District Manager, Land Department

CVD:jc

44-10
PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

March 8, 1957

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
P. O. Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
P. O. Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Gentlemen:

file
Re: San Juan 32-8 Unit
1957 Plan of Development

This is to advise that the 1957 Plan of Development for the San Juan 32-8 Unit has been approved as follows:

1. Supervisor, United States Geological Survey, February 4, 1957.
2. Commissioner of Public Lands, State of New Mexico, February 15, 1957.
3. Oil Conservation Commission, State of New Mexico, February 28, 1957.

Copies of this letter are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

Donald L. Anderson
Donald L. Anderson
District Manager, Land Department

DLA:mdc

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

February 28, 1957

C
O
P
Y

Pacific Northwest Pipeline Company
P. O. Box 1526
Salt Lake City 10, Utah

Attention: Mr. R. N. Richey

Re: San Juan 32-8 Unit
San Juan County, New Mexico
Plan of Development
Calendar Year 1957

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development for Calendar Year 1957 for the above-captioned unit area, dated December 20, 1956, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan is returned herewith.

Very truly yours,


A. L. PORTER, Jr.,
Secretary - Director

ALP:DSN/ga

bcc: U. S. G. S. - Roswell, N. M.
Commissioner of Public Lands - Santa Fe, N. M.

446

February 15, 1957

In reply refer to:
Unit Division

Pacific Northwest Pipeline Corporation
P. O. Box 1526
Salt Lake City 10, Utah

Re: San Juan 32-8 Unit
Plan of Development, Calendar Year 1957

Attention: Mr. D. N. Canfield
Assistant Manager, Land Department

Gentlemen:

We are enclosing one copy of the 1957 Plan of Development for the San Juan 32-8 Unit Agreement. The Commissioner of Public Lands has approved this Plan of Development in accord with his understanding with you on February 5, 1957.

(1) That Pacific will shift a well in San Juan 32-8 Unit to State Land if negotiations with Phillips are successful in obtaining relief from the required developments.

(2) If Pacific is unsuccessful in obtaining relief from the Phillips contract, Pacific shall in lieu of drilling a well upon State Lands in 32-8 Unit drill a Mesaverde well on State Lands in San Juan 29-6 Unit in order to give the State additional development on its property.

(3) If Pacific is unsuccessful in developing State Lands within San Juan 32-8 during Calendar Year 1957, Pacific agrees to place upon the Plan of Development for 1958 a Mesaverde well to be located on the W/2 of Sec. 16, T-31-N, R-8-W.

Therefore, subject to the above stipulations, the Commissioner approved the San Juan 32-8 Unit 1957 Plan of Development February 15, 1957.

We wish to thank you for your efforts in reaching an equitable agreement on this matter.

Very truly yours,

MURRAY E. MORGAN
Commissioner of Public Lands

By: Ted Bilberry, Supervisor
Oil and Gas Department

MEM:MMR/m
enc: 1

ILLEGIBLE

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

December 20, 1956

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Re: San Juan 32-8 Unit
San Juan Co., New Mexico
Plan of Development
Calendar Year 1957

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 10 of San Juan 32-8 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, is submitting this Plan of Development providing for the drilling of the following wells during the period from January 1, 1957 to December 31, 1957:

<u>LOCATION</u>	<u>FORMATION</u>
W/2, Sec. 3, T-31-N, R-8-W	Mesaverde
W/2, Sec. 4, T-31-N, R-8-W	Mesaverde
E/2, Sec. 4, T-31-N, R-8-W	Mesaverde
E/2, Sec. 15, T-31-N, R-8-W	Mesaverde
W/2, Sec. 14, T-31-N, R-8-W	Mesaverde
E/2, Sec. 19, T-32-N, R-8-W	Mesaverde
E/2, Sec. 33, T-32-N, R-8-W	Mesaverde

The above wells will be drilled to intermediate casing point with conventional hydraulic rotary tools and the pay section will be drilled with gas tools. After running production casing through the Mesaverde, the gas sands will be perforated and fraced.

In addition to the above wells, Pacific Northwest Pipeline Corporation, as Unit Operator, also plans to drill any offset wells required to prevent drainage of unitized substances.

If this drilling program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided below and return an approved copy to Pacific Northwest Pipeline Corporation.

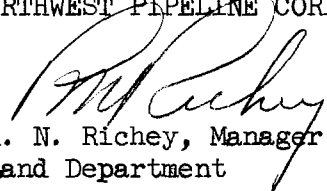
Re: San Juan 32-8 Unit

December 20, 1956

Copies of this drilling program are being sent to all Working Interest Owners in the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. Richey, Manager
Land Department

RNR:DLA:jl

APPROVED: _____ DATE: _____
Supervisor, United States Geological Survey

Subject to like approval by the appropriate State officials.

APPROVED: _____ DATE: _____
Commissioner of Public Lands

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED:  _____ DATE: 2-28-57
Oil Conservation Commission

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

Copy 4/14

PACIFIC NORTHWEST PIPELINE CORPORATION

SALT LAKE CITY, UTAH

October 15, 1956

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Re: (San Juan 32-8 Unit)
1956 Plan of Development

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

The 1956 Plan of Development for the referenced unit provided for the drilling of the wells which, with current status shown, are listed below:

Location	Well No.	Objective Formation	Completion Date	Well Test		Present Status
				3 Hr. IF Thru 3/4" Choke	CAQF	
W/2 Sec. 1-31N-8W	-	MV	-	-	-	Not Drilled
W/2 Sec. 15-31N-8W 16-15	-	MV	7-19-56	3,607Mcf	5,131Mcf	Shut In
W/2 Sec. 23-31N-8W 17-23	-	MV	6-25-56	3,043Mcf	4,905Mcf	Shut In
W/2 Sec. 24-31N-8W 15-24	-	MV	6-4-56	3,715Mcf	4,872Mcf	Shut In
W/2 Sec. 25-32N-8W	-	MV	-	-	-	Not Drilled
W/2 Sec. 34-32N-8W 14-34	-	MV	4-17-56	2,796Mcf	3,701Mcf	Shut In

Additional demands for new construction together with generally increased costs, both unforeseen at the time of drafting the Plan of Development, have compelled us to reallocate funds under our 1956 capital budget and have resulted in a material reduction in monies allocated for fourth quarter drilling operations. The wells above scheduled for the W/2, Sec. 1, Township 31 North, Range 8 West and the W/2, Sec. 25, Township 32 North, Range 8 West are situated on leases wholly owned by Pacific and, if drilled would be at Pacific's sole cost and expense. Because of the forced reallocation of funds, we will be unable to drill these wells as scheduled; and we must, therefore, delete them from the 1956 Plan of Development.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION

R. N. Richey
R. N. RICHEY, Manager
Land Department

PACIFIC NORTHWEST PIPELINE CORPORATION
HEAD OFFICE 000
SALT LAKE CITY, UTAH

11:30:25

August 22, 1956

REPLY TO:
P. O. Box 1526
SALT LAKE CITY 10, UTAH

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELL

Commissioner of Public Lands
State of New Mexico
Box 791
Santa Fe, New Mexico

file

Oil Conservation Commission
State of New Mexico
Box 871
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11(a) of San Juan 32-8 Unit Agreement, Pacific 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:

SAN JUAN 32-8 MESAVERDE WELL #16-15

LOCATION:	1190' from South line and 820' from West line of Section 15, T-31-N, R-8-W, N.M.P.M.
ELEVATION:	6445.6' (grd)
SPUD DATE:	June 13, 1956
CASING:	10 3/4" cemented at 228' with 225 sx 7 5/8" cemented at 3550' with 200 sx 5 1/2" cemented at 5830' with 200 sx
TOTAL DEPTH:	5830'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

San Juan 32-8 Unit

August 22, 1956

COMPLETION METHOD: Perforated 5½" casing. Aqua-fraced (water only) Cliff House intervals from 5260' to 5386' and Menefee intervals from 5564' to 5398' and Upper Point Lookout intervals from 5692' to 5624' and Lower Point Lookout intervals from 5788' to 5708'.

TUBING: 2" hung at 5747'.

COMPLETION TEST DATA

DATE July 19, 1956

SHUT-IN-PERIOD: 7 days

FINAL SHUT-IN PRESSURES: Tubing 1042#
Casing 1042#

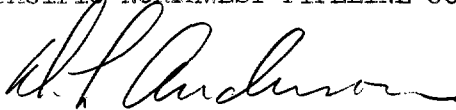
RATE THROUGH TUBING AND
3/4" CHOKE AFTER 3 HOUR
BLOW DOWN: 3,607 Mcfgpd.

San Juan 32-8 Mesaverde Well #16-15 is located upon the drilling block described as the W/2 of Section 15, Township 31 North, Range 8 West. This drilling block was included as an intervening drilling block in the Mesaverde Participating Area effective August 1, 1955. Therefore, the Mesaverde Participating Area is not enlarged and the present participation is as shown on Schedule X for the Eighth Expanded Participating Area for the Mesaverde Formation, effective June 1, 1956.

Copies of this letter are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


Donald L. Anderson
District Manager, Land Department

DIA:jb

416
PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 2-0211 • SIMMS BUILDING

1501 E. ALBUQUERQUE, NEW MEXICO
M 105

July 17, 1956

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico

Re: *file*
San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELLS

Commissioner of Public Lands
State of New Mexico
Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Box 871
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11(a) of San Juan 32-8 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that additional wells capable of producing unitized substances in paying quantities from the Mesaverde Formation have been completed upon acreage committed to this unit.

The well data is as follows:

SAN JUAN 32-8 MESAVERDE WELL #17-23

LOCATION:	955' from South line and 1055' from West line of Section 23, T 31 N, R 8 W, N.M.P.M.
ELEVATION:	6471.4' (grd)
SPUD DATE:	May 24, 1956
CASING:	10 3/4" cemented at 225' with 180 sx 7 5/8" cemented at 3556' with 200 sx 5 1/2" cemented at 5856' with 200 sx
TOTAL DEPTH:	5856'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

COMPLETION METHOD: Perforated 5½" casing. Aqua-fraced (water only) Cliff House intervals from 5288' to 5358' and Menefee intervals from 5478' to 5396' and Upper Point Lookout intervals from 5704' to 5646' and Lower Point Lookout intervals from 5846' to 5724'.

TUBING: 2" hung at 5817'

COMPLETION TEST DATA

DATE: June 25, 1956

SHUT-IN-PERIOD: 7 days

FINAL SHUT IN PRESSURES: Tubing 1120#
Casing 1120#

RATE THROUGH TUBING AND
¾" CHOKE AFTER 3 HOUR
BLOW DOWN: 3,043 Mcfgpd.

SAN JUAN 32-8 MESAVERDE WELL #15-24

LOCATION: 1190' from South line and 790' from
West line of Section 24, T 31 N,
R 8 W, N.M.P.M.

ELEVATION: 6452.4' (grd.)

SPUD DATE: April 15, 1956

CASING: 10 ¾" cemented at 216' with 180 sx
7 ⅝" cemented at 3560' with 200 sx
5 ½" cemented at 5813' with 200 sx

TOTAL DEPTH: 5813'

DRILLING METHODS: Drilled with mud to 7 ⅝" casing point;
drilled with gas from 7 ⅝" casing point
to total depth.

COMPLETION METHOD: Perforated 5½" casing. Aqua-fraced (water only) Cliff House intervals from 5378' to 5292' and Menefee intervals from 5584' to 5444' and Upper Point Lookout intervals from 5670' to 5634' and Lower Point Lookout intervals from 5804' to 5694'.

TUBING: 2" hung at 5774'

COMPLETION TEST DATA

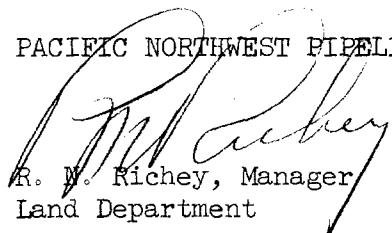
DATE: June 4, 1956
SHUT-IN-PERIOD: 7 days
FINAL SHUT IN PRESSURES: Tubing 1137#
Casing 1132#
RATE THROUGH TUBING AND
3/4" CHOKE AFTER 3 HOUR
BLOW DOWN: 3,175 Mcfgpd.

San Juan 32-8 Mesaverde Well #17-23 is located upon the drilling block described as the W/2 of Section 23, Township 31 North, Range 8 West. This drilling block was included as an intervening drilling block in the Mesaverde Participating Area effective September 1, 1955. San Juan 32-8 Mesaverde Well #15-24 is located upon the drilling block described as the W/2 of Section 24, Township 31 North, Range 8 West. This drilling block was included as an intervening drilling block in the Mesaverde Participating Area effective October 1, 1955. Therefore, the Mesaverde Participating Area is not enlarged and the present participation is as shown on Schedule X for the Eighth Expanded Participating Area for the Mesaverde Formation, effective June 1, 1956.

Copies of this letter are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. W. Richey, Manager
Land Department

RNR:DLA:mhg

11 16
MAIL OFFICE 600
PACIFIC NORTHWEST PIPELINE CORPORATION

HOUSTON, TEXAS

June 18, 1956

REPLY TO:
PRODUCTION DEPARTMENT
520 SIMMS BUILDING
ALBUQUERQUE, NEW MEXICO

REGIONAL SUPERVISOR
UNITED STATES GEOLOGICAL SURVEY
POST OFFICE BOX 6721
ROSWELL, NEW MEXICO

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
EIGHTH EXPANDED PARTICIPATING
AREA FOR THE MESAVERDE FORMATION
EFFECTIVE: June 1, 1956

COMMISSIONER OF PUBLIC LANDS
STATE OF NEW MEXICO
POST OFFICE BOX 791
SANTA FE, NEW MEXICO

OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO
POST OFFICE BOX 871
SANTA FE, NEW MEXICO

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-8 Unit Agreement, Pacific 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, and that the Participating Area for the Mesaverde Formation is accordingly expanded.

The well data upon which this Eighth Expansion is based is as follows:

SAN JUAN 32-8 MESAVERDE WELL # 12-21

LOCATION:	990' from South line and 990' from West line of Section 21, T 31 N, R 8 W, N.M.P.M.
ELEVATION:	6545' (grd)
SPUD DATE:	January 5, 1956
CASING:	10 3/4" cemented at 263' with 165 sx 7 5/8" cemented at 3522' with 250 sx 5 1/2" cemented at 5871' with 150 sx
TOTAL DEPTH:	5867'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

Eighth Expansion - Mesaverde
San Juan 32-8 Unit

June 18, 1956

COMPLETION METHOD:

Perforated 5½" casing and aqua-fraced
(water only) Lower Point Lookout in-
tervals from 5834' to 5756', Upper Point
Lookout intervals from 5740' - 5698';
Menefee intervals from 5574' to 5448'
and Cliff House intervals from 5348' to
5300'.

TUBING

2" hung at 5833'

COMPLETION TEST DATA

DATE:

May 28, 1956

SHUT-IN-PERIOD:

9 days

FINAL SHUT IN PRESSURES:

Tubing 1050#
Casing 1048#

RATE THROUGH TUBING AND 3/4"

CHOKE BY PITOT TUBE AFTER 3

HOURLY BLOW DOWN:

4,253 Mcfgpd.

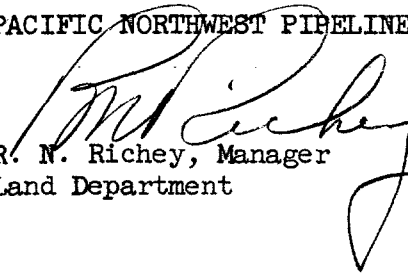
San Juan 32-8 Mesaverde Well #12-21 is located upon the drilling block described as the W/2 of Section 21, Township 31 North, Range 8 West, N.M.P.M. This drilling block is hereby admitted to the participating area.

Attached is Schedule X showing the Eighth Expanded Participating Area for the Mesaverde Formation of San Juan 32-8 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract.

Copies of this letter and schedule are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. Richey, Manager
Land Department

RNR:DLA:mhg
Attachment

1146
PACIFIC NORTHWEST PIPELINE CORPORATION

HOUSTON, TEXAS

June 18, 1956

REPLY TO:
PRODUCTION DEPARTMENT
520 SIMMS BUILDING
ALBUQUERQUE, NEW MEXICO

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
SEVENTH EXPANDED PARTICIPATING
AREA FOR THE MESAVERDE FORMATION
EFFECTIVE: May 1, 1956

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-8 Unit Agreement, Pacific 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, and that the Participating Area for the Mesaverde Formation is accordingly expanded.

The well data upon which this Seventh Expansion is based is as follows:

SAN JUAN 32-8 MESAVERDE WELL #14-34

LOCATION:	1670' from South line and 1530' from West line of Section 34, T 32 N, R 8 W, N.M.P.M.
ELEVATION:	6660' (DF)
SPUD DATE:	February 22, 1956
CASING:	9 5/8" cemented at 176' with 125 sx 7" cemented at 3641' with 250 sx 5 1/2" cemented at 6075' with 300 sx
TOTAL DEPTH:	6075'
DRILLING METHODS:	Drilled with mud to 7" casing point; drilled with gas from 7" casing point to total depth.

Seventh Expansion - Mesaverde
San Juan 32-8 Unit

June 18, 1956

COMPLETION METHOD:

Perforated 5 1/2" casing and aqua-fraced
Cliff House intervals from 5552' to 5633',
Menefee intervals from 5724' to 5856' and
Point Lookout intervals from 5896' to 5989'

TUBING:

2" hung at 6024'

COMPLETION TEST DATA

DATE:

April 17, 1956

SHUT-IN-PERIOD:

20 days

FINAL SHUT IN PRESSURES:

Tubing 1121 #
Casing 1117 #

RATE THROUGH TUBING AND 3/4"
CHOKE BY PITOT TUBE AFTER 3
HOUR BLOW DOWN:

2,796 Mcfgpd.

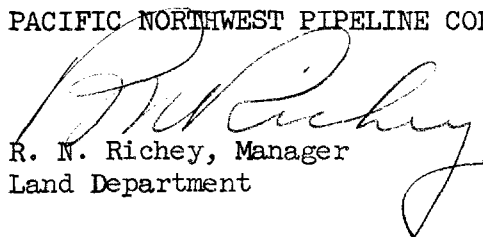
San Juan 32-8 Mesaverde Well #14-34 is located upon the drilling block described as the W/2 of Section 34, Township 32 North, Range 8 West, N.M.P.M. This drilling block is hereby admitted to the participating area. In addition an intervening drilling block described as the W/2 of Section 3, Township 31 North, Range 8 West, is created by the completion of San Juan 32-8 Mesaverde Well #14-34 and the previous completion of San Juan 32-8 Mesaverde Well #5-10 located upon the drilling block described as the W/2 of Section 10, Township 31 North, Range 8 West. This intervening drilling block is hereby admitted to the Mesaverde Participating Area in accordance with the provisions of Section 11 of the San Juan 32-8 Unit Agreement.

Attached is Schedule IX showing the Seventh Expanded Participating Area for the Mesaverde Formation of San Juan 32-8 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract.

Copies of this letter and schedule are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. Richey, Manager
Land Department

RNR:DLA:mhg
Attachment

44
JUN 19 1956
PACIFIC NORTHWEST PIPELINE CORPORATION

HOUSTON, TEXAS

June 18, 1956

REPLY TO:
PRODUCTION DEPARTMENT
520 SIMMS BUILDING
ALBUQUERQUE, NEW MEXICO

Regional Supervisor
United States Geological Survey
Post Office Box 6721
Roswell, New Mexico

Re: San Juan 32-8 Unit
Mesaverde Participating

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico

file

Oil Conservation Commission
State of New Mexico
Post Office Box 871
Santa Fe, New Mexico

Gentlemen:

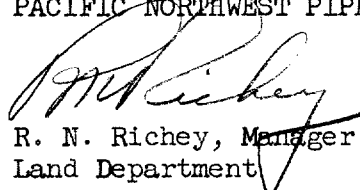
On May 15, 1956 we issued the Seventh Expanded Participating Area for the Mesaverde Formation effective May 1, 1956 for the San Juan 32-8 Unit and inadvertently omitted the inclusion of an intervening drilling block. This omission also caused the Eighth Expanded Participating Area for the Mesaverde Formation effective June 1, 1956 to be incorrect.

We are, therefore, enclosing new schedules for the Seventh and Eighth Expansions of the Mesaverde Participating Area effective May 1, 1956 and June 1, 1956 respectively. Please destroy the expansion schedules and cover letters dated respectively May 15, 1956 and June 8, 1956 and replace them with the enclosed schedules.

Copies of this letter and enclosed schedules are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. Richey, Manager
Land Department

RNR:DLA:mhg
Encls.



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 6721
Roswell, New Mexico

February 8, 1956

Pacific Northwest Pipeline Corporation
Sims Building
Albuquerque, New Mexico

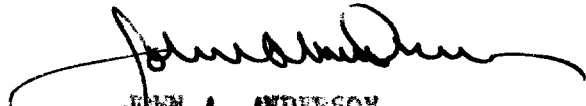
Attention: Mr. E. W. Richey

Gentlemen:

Your plan of development dated December 12, 1955, for the San Juan 32-8 Unit Area, New Mexico, for the calendar year 1956, has been approved on this date subject to like approval by the appropriate State of New Mexico officials.

One approved copy of the plan is enclosed.

Very truly yours,


JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Enclosure

Copy to: Wash. (w/copy of plan)
Farmington (w/copy of plan)
Comm. of Public Lands, Santa Fe (letter only)
Oil Comm., Santa Fe (letter only)

ILLEGIBLE

PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 7-0211 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

January 9, 1956

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
SIXTH EXPANDED PARTICIPATING AREA
FOR THE MESAVERDE FORMATION
EFFECTIVE: January 1, 1956

Commissioner of Public Lands
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 32-8 Unit Agreement, Pacific 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 and that the Participating Area for the Mesaverde Formation is accordingly expanded.

The well data upon which this Sixth Expansion is based is as follows:

SAN JUAN 32-8 MESAVERDE WELL #11-21

LOCATION:	1650' from North line and 1650' from East line of Section 21, T 31 N, R 8 W, N.M.P.M.
ELEVATION:	6583' (grd.)
SPUD DATE:	November 11, 1955
CASING:	10 3/4" cemented at 228' with 175 sx 7 5/8" cemented at 3575' with 200 sx 5 1/2" cemented at 5934' with 150 sx
TOTAL DEPTH:	5935'; PB 5931'
DRILLING METHODS:	Drilled with mud to 7 5/8" casing point; drilled with gas from 7 5/8" casing point to total depth.

Sixth Expansion - Mesaverde
San Juan 32-8 Unit

January 9, 1956

COMPLETION METHOD:

Perforated 5 1/2" casing and
aqua-fraced Upper Point Lookout
intervals from 5736' to 5780'
and Lower Point Lookout intervals
from 5796' to 5872'.

TUBING:

2" hung at 5861'

COMPLETION TEST DATA

DATE:

December 13, 1955

SHUT-IN PERIOD:

8 days

FINAL SHUT-IN PRESSURES:

Tubing 1001 #
Casing 1002 #

RATE BY 3 HOUR OPEN FLOW TEST:

5,960 Mcfgpd.

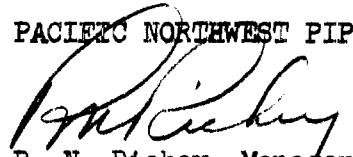
San Juan 32-8 Mesaverde Well #11-21 is located upon the drilling block described as the E/2 of Section 21, Township 31 North, Range 8 West, N.M.P.M. This drilling block is hereby admitted to the participating area.

Attached is Schedule VIII showing the Sixth Expanded Participating Area for the Mesaverde Formation of San Juan 32-8 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract.

Copies of this letter and schedule are being sent to all working interest owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. Richey, Manager
Land Department

DLA:jce
attachment

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

January 5, 1956

**Pacific Northwest Pipeline Corporation
Simms Building
Albuquerque, New Mexico**

Attention: Mr. R. N. Richey

file
**Re: (San Juan 32-8) Unit Area
San Juan County, New Mexico
1956 Plan of Development**

Gentlemen:

This is to advise that the Plan of Development for the San Juan 32-8 Unit Area, dated December 12, 1955, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey, and by the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the plan is returned herewith.

Very truly yours,

**W. B. Macey
Secretary-Director**

WBM:jh

**cc: U. S. Geological Survey, Roswell
Commissioner of Public Lands, Santa Fe**

**C
O
P
Y**

PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 7-0211 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

December 12, 1955

Re: San Juan 32-8 Unit Area,
Rio Arriba and San Juan
Counties, New Mexico.
PLAN OF DEVELOPMENT FOR
CALENDAR YEAR 1956.

Director,
United States Geological Survey,
Department of Interior
Roswell, New Mexico.

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico.

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico.

Gentlemen:

Pursuant to Section 10 of San Juan 32-8 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, is submitting this Plan of Development providing for the drilling of the following wells during the period from January 1, 1956 to December 31, 1956:

LOCATION

FORMATION

T 31 N, R 8 W

Sec. 1:	$W\frac{1}{2}$	Mesaverde
Sec. 15:	$W\frac{1}{2}$	Mesaverde
Sec. 23:	$W\frac{1}{2}$	Mesaverde
Sec. 24:	$W\frac{1}{2}$	Mesaverde

T 32 N, R 8 W

Sec. 25:	$W\frac{1}{2}$	Mesaverde
Sec. 34:	$W\frac{1}{2}$	Mesaverde

The above wells will be drilled to intermediate casing point with conventional hydraulic rotary tools and the pay section will be drilled with gas tools. After running production casing through the Mesaverde, the gas sands will be selectively perforated and fraced.

December 12, 1955

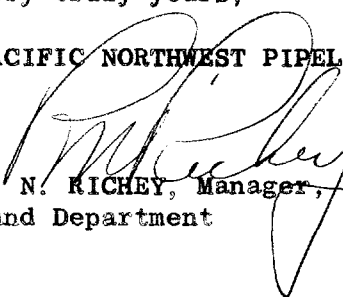
In addition to the above wells, Pacific Northwest Pipeline Corporation, as Unit Operator, also plans to drill any offset wells required to prevent drainage of unitized substances.

If this drilling program is acceptable, please signify your approval as required under Section 10 of the Unit Agreement in the space provided below and return an approved copy to Pacific Northwest Pipeline Corporation

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

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. RICHEY, Manager,
Land Department

RNR:DNC:gm

APPROVED: _____

Supervisor, United States Geological Survey

DATE: _____

Subject to like approval by appropriate State officials.

APPROVED: _____

Commissioner of Public Lands

DATE: _____

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED: _____


Oil Conservation Commission

DATE: _____

JAN 5 1956

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

SAN JUAN 32-8 UNIT

WORKING INTEREST OWNERS

Phillips Petroleum Company
508 Bank Building
Bartlesville, Oklahoma.
Attention: Mr. G. E. Benskin.

Skelly Oil Company
Skelly Building
Tulsa 2, Oklahoma
Attention: Mr. A. L. Cashman

Wood River Oil & Refining Company, Inc.
321 West Douglas
Wichita, Kansas.

El Paso Natural Gas Company
P. O. Box 1492
El Paso, Texas.
Attention: Mr. R. L. Hamblin.

Sunray Oil Corporation
First National Bank Building
Tulsa, Oklahoma.

General American Oil Company of Texas
Meadows Building
Dallas 6, Texas.
Attention: Mr. W. P. Barnes.

Stanolind Oil and Gas Company
Oil and Gas Building
Fort Worth, Texas.
Attention: Mr. C. F. Bedford.

The Texas Company
P. O. Box 1720
Fort Worth, Texas.
Attention: Mr. E. W. Lewis.

PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 3-3547 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

December 7, 1955

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico

Re: San Juan 32-8 Unit #14-08-001-446
San Juan County, New Mexico
NOTICE OF COMPLETION OF ADDITIONAL WELL

Commissioner of Public Lands
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

file

Oil Conservation Commission
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of San Juan 32-8 Unit Agreement, Pacific 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:

SAN JUAN 32-8 MESAVERDE WELL #9-20

LOCATION:	1600' from South line and 1150' from West line of Section 20, T 32 N, R 8 W, N.M.P.M.
ELEVATION:	6821' (grd.)
SPUD DATE:	July 27, 1955
CASING:	10 3/4" cemented at 249' with 150 sx 7 5/8" cemented at 3930' with 200 sx 5 1/2" cemented at 6284' with 125 sx

San Juan 32-8 Unit

December 7, 1955

TOTAL DEPTH: 6284' (redrilled); 6261' (original)

DRILLING METHODS: Drilled with mud to 7 5/8" casing point; drilled with air from 7 5/8" casing point to 6,261' (original total depth); set whipstock at 4,052' and drilled with gas to 6,284'

COMPLETION METHOD: Perforated 5 1/2" casing. Aqua-frased Cliff House intervals from 5410' to 5586', Menefee intervals from 5796' to 6044', Upper Point Lookout intervals from 6124' to 6194', and Lower Point Lookout intervals from 6222' to 6282'.

TUBING: 2" hung at 6233'

COMPLETION TEST DATA

DATE: November 17, 1955

SHUT-IN-PERIOD: 9 days

FINAL SHUT-IN-PRESSURES: Tubing 215 #
Casing 1000 #

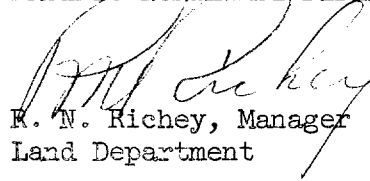
RATE BY PILOT TUBE AFTER
3 HOUR BLOW DOWN: 2,104 Mcfgpd.

San Juan 32-8 Mesaverde Well #9-20 is located upon the drilling block described as the W/2 of Section 20, Township 32 North, Range 8 West. This drilling block was included as an intervening drilling block in the Mesaverde Participating Area effective August 1, 1954. Therefore, the Mesaverde Participating Area is not enlarged and the present participation is as shown on Schedule VII for the Fifth Expanded Participating Area for the Mesaverde Formation effective October 1, 1955.

Copies of this letter are being sent to all Working Interest Owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. Richey, Manager
Land Department

DIA:jce

PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 7-0211 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

December 5, 1955

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

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico.


Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico.

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico.

Gentlemen:

Under date of April 13, 1955, Phillips Petroleum Company, as Unit Operator submitted for your approval a Plan of Development for the year 1955 for the San Juan 29-5 Unit and on May 26, 1955, Pacific Northwest Pipeline Corporation, as Successor Unit Operator of this Unit, submitted a Supplemental Plan of Development for the same period. These Plans of Development were duly approved by the appropriate governmental agencies. The Plan of Development dated April 13, 1955, provided for the drilling of six Mesaverde wells and the Plan of Development dated May 26, 1955 provided for the drilling of three additional Mesaverde wells. The locations provided for in the above plans are as follows:

INITIAL PLAN OF DEVELOPMENT

SW $\frac{1}{4}$ Sec. 16, T 31N, R 8W, 
SW $\frac{1}{4}$ Sec. 20, T 32N, R 8W,
SW $\frac{1}{4}$ Sec. 21, T 31N, R 8W,
NE $\frac{1}{4}$ Sec. 21, T 31N, R 8W,
SW $\frac{1}{4}$ Sec. 22, T 31N, R 8W,
NE $\frac{1}{4}$ Sec. 24, T 31N, R 8W.

December 5, 1955

SUPPLEMENTAL PLAN OF DEVELOPMENT

SW $\frac{1}{4}$ Sec. 23, T 31N, R 8W,

NE $\frac{1}{4}$ Sec. 22, T 31N, R 8W,

SW $\frac{1}{4}$ Sec. 9, T 31N, R 8W.

As of this date we have completed three of the six wells contemplated in the Initial Plan of Development and have completed one well listed in the Supplemental Plan. We are now drilling one initial plan well and will drill another before the end of the year. The well included on the Supplemental Plan which was to be drilled upon the W $\frac{1}{2}$ of Sec. 23, T 31N, R 8W, will be deferred until the calendar year 1956 and included upon the Plan of Development for that year. We wish to advise, however, that we do not plan to drill the two wells planned for the W $\frac{1}{2}$ of Sec. 9, and the W $\frac{1}{2}$ of Sec. 16, T 31N, R 8W and must therefore drop them from the respective plans in which they appear.

By copies of this letter we are advising all Working Interest Owners within the Unit of these changes in the 1955 Plan of Development.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. RICHEY, Manager,
Land Department.

RNR:DNC:gm

PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 3-3547 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

November 8, 1955

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Gentlemen:

Pursuant to Section 11 (a) of San Juan 32-8 Unit Agreement, Pacific 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 and that the Participating Area for the Mesaverde Formation is accordingly expanded. The well data upon which this fifth expansion is based is as follows:

SAN JUAN 32-8 MESA WELL #10-24

LOCATION:	1800' from North line and 952' from East line of Section 24, T.31 N, R 8 W, N.M.P.M.
ELEVATION:	6501' (DF)
SPUD DATE:	July 15, 1955
CASING:	9 5/8" cemented at 171' with 125 sx 7" cemented at 5298' with 500 sx
TOTAL DEPTH:	5880'
DRILLING METHODS:	Conventional rotary to total depth; drilled with gas below 7" casing.

file
Re: (San Juan 32-8 Unit) #14-08-001-446
Rio Arriba County, New Mexico
FIFTH EXPANDED PARTICIPATING AREA
FOR THE MESAVERDE FORMATION
EFFECTIVE: October 1, 1955

444

JS

Fifth Expansion - Mesaverde
San Juan 32-8 Unit

November 8, 1955

COMPLETION METHOD:

Sand-oil fraced Cliff-House open
hole interval from 5298' to 5400'
and Point Lookout open hole inter-
val from 5520' to 5880'

TUBING:

2" hung at 5684'

COMPLETION TEST DATA

DATE:

September 13, 1955

SHUT-IN-PERIOD:

33 days

FINAL SHUT-IN PRESSURES:

Tubing 1101 #
Casing 1097 #

RATE BY 3 HOUR OPEN

FLOW TEST:

1,374 Mcfgpd; 369 # WP on Tubing

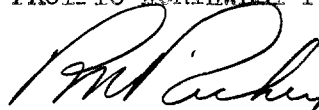
San Juan 32-8 Mesa Well #10-24 is located upon the drilling block described as the E/2 of Section 24, Township 31 North, Range 8 West, N.M.P.M. This drilling block is hereby admitted to the participating area. In addition, an intervening drilling block described as the W/2 of Section 24, Township 31 North, Range 8 West, N.M.P.M. is created by the completion of Mesa Well #10-24 and the previous completion of Mesa Well #1-23 upon the drilling block described as the E/2 of Section 23, Township 31 North, Range 8 West, N.M.P.M. This intervening drilling block is hereby admitted to the Mesaverde Participating Area, in accordance with the provisions of Section 11 of San Juan 32-8 Unit Agreement.

Attached is Schedule VII showing the Fifth Expanded Participating Area for the Mesaverde Formation of San Juan 32-8 Unit Area. This describes the Expanded Participating Area and shows the percentage of unitized substances allocated to each unitized tract.

Copies of this letter and schedule are being sent to all working interest owners within the San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION



R. N. Richey, Manager
Land Department

DLA:jce
Attachment

PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 3-3547 • SIMMS BUILDING
ALBUQUERQUE, NEW MEXICO

September 23, 1955

Re: (San Juan 32-8 Unit)
Rio Arriba County
FOURTH EXPANDED REVISION
OF THE MESAVERDE PARTICI-
PATING AREA.
Effective September 1 1955.

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico.

Commissioner of Public Lands
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico.

Oil Conservation Commission
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico.

Gentlemen:

Pursuant to Section 11(a) of San Juan 32-8 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit and that the Participating Area for the Mesaverde Formation is accordingly expanded. The well data upon which this fourth revision is based as follows:

SAN JUAN 32-8 MESA WELL 8-22

LOCATION: 1600' from North line and 800' from east
line of Sec. 22 T 31N - R 8 W, N.M.P.M.

ELEVATION: 6,573'

SPUD DATE: June 30, 1955

CASING: 10 3/4" cemented at 227' with 150 sx
7 5/8" cemented at 3,610' with 200 sx,
5 1/2" cemented at 5,726' with 210 sx.

TOTAL DEPTH: 5,966'

DRILLING METHODS: Conventional rotary to total depth; drilled with
gas below 7 5/8" casing.

COMPLETION METHOD: Perforated three sections of the Cliff House and
Menefee interval 5,390' to 5,694' and sand-oil frac
with 9,744 gallons of diesel oil at ratio of 1.0 lbs.

September 23, 1955

sand per gallon. Acidized with 500 gallons of acid prior to frac. Sand-oil fraced Point Lookout Interval 5,726' to 5,966' with 17,178 gallons diesel oil at ratio of one pound sand per gallon.

TUBING: 2" set at 5,740.73'

COMPLETION TEST DATA

DATE: August 1, 1955

SHUT-IN PERIOD: 7 days.

FINAL SHUT-IN Tubing 1,019#
PRESSURES: Casing 1,019#

RATE BY PITOT TUBE
AFTER 3 HOUR BLOW
DOWN: 5,456 Mcfgpd.

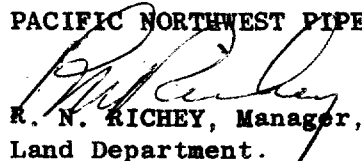
The drilling block upon which this well is located is described as the E $\frac{1}{2}$ Sec. 22 T 31N R 8W. Upon completion of Well No. 8-22 an intervening drilling block was created described as the W $\frac{1}{2}$ Sec. 23 T 31N R 8W and is hereby admitted to the Mesaverde Participating Area for San Juan 32-8 Unit effective as of September 1, 1955.

We attach hereto Schedule No. VI showing the fourth Expanded Participating Area for the Mesaverde Formation of San Juan 32-8 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

Copies of this letter and schedule have been sent to all working interest owners within San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. RICHEY, Manager,
Land Department.

RNR:DNC:gm

PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 3-3547 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

August 13, 1955

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico.

Re: (San Juan 32-8 Unit
Rio Arriba County
THIRD EXPANDED REVISION
OF THE MESAVERDE PARTI-
CIPATING AREA
Effective August 1, 1955.

Commissioner of Public Lands
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico.

Oil Conservation Commission
of the State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico.



Gentlemen:

Pursuant to Section 11(a) of San Juan 32-8 Unit Agreement, Pacific Northwest Pipeline Corporation, as Unit Operator, has determined that one additional well capable of producing unitized substances in paying quantities from the Mesaverde Formation has been completed upon acreage committed to this unit and that the Participating Area for the Mesaverde Formation is accordingly expanded. The well data upon which this third revision is based is as follows:

SAN JUAN 32-8 MESA WELL #7-22

LOCATION:	990' from south line and 1850' from west line of Sec. 22 T 31N - R 8W N.M.P.M.
ELEVATION:	6,348'
SPUD DATE:	June 2, 1955
CASING:	10 3/4" cemented at 229.42' with 160 sx. 7 5/8" cemented at 3,334.3' with 220 sx. 5 1/2" cemented at 5,479.3' with 100 sx.
TOTAL DEPTH:	5,738'
DRILLING METHODS:	Conventional rotary to total depth; drilled with gas below 7 5/8" casing.
COMPLETION METHOD:	Sand-oil fraced Cliff House interval 5,146' to 5,135' with 10,000 gallons of diesel oil at ratio of .8 per sand per gallon. Sand-

Third Revision - Mesaverde
San Juan 32-8 Unit.

-2-

August 13, 1955

oil fraced Menefee interval 5,230' to
5,403' with 10,000 gallons diesel oil
at ratio of one pound sand per gallon.
Sand-oil fraced Point Lookout interval
5,471' to 5,739' with 10,000 gallons
diesel oil at ratio of one pound sand
per gallon.

TUBING: 2" set at 5,463.6'

COMPLETION TEST DATA

DATE: July 12, 1955

SHUT-IN PERIOD: 7 days

FINAL SHUT-IN Tubing 1,061#
PRESSURES: Casing 1,056#

RATE BY PITOT TUBE
AFTER 3 HOUR BLOW
DOWN: 4,952 Mcfgpd.

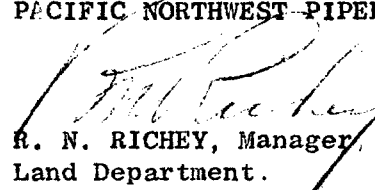
The drilling block upon which this well is located is described as the W/2 Sec. 22 T 31N R 8W. Upon completion of Well No. 7-22 an intervening drilling block was created described as the W/2 Sec. 15 T 31N R 8W and is hereby admitted to the Mesaverde Participating Area for San Juan 32-8 Unit effective as of August 1, 1955.

We attach hereto Schedule No.V showing the Third Expanded Participating Area for the Mesaverde Formation of San Juan 32-8 Unit Area. This describes the expanded participating area and shows the percentage of unitized substances allocated to each unitized tract.

Copies of this letter and schedule have been sent to all working interest owners within San Juan 32-8 Unit.

Very truly yours,

PACIFIC NORTHWEST PIPELINE CORPORATION


R. N. RICHEY, Manager,
Land Department.

DNC:gm

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

June 20, 1955

File

Pacific Northwest Pipeline Corporation
Simms Building
Albuquerque, New Mexico

Attention: Mr. R. M. Richey

Re: San Juan 32-8 Unit
San Juan County, N. M.
1955 Supplemental Plan of
Development

Gentlemen:

This is to advise that the 1955 Supplemental Plan of Development for the above-captioned unit, dated May 26, 1955, has this date been approved, by the New Mexico Oil Conservation Commission, subject to like approval by the U. S. Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

It is understood that the three wells provided for in this supplemental plan of development are to be drilled in addition to the six locations included in the amended plan of development dated April 13, 1955, which was submitted by Phillips Petroleum Company.

Two copies of future plans should be submitted to this office if you desire an approved copy for your files. In this case only one copy was received.

Very truly yours,

W. B. MACEY,
Secretary-Director

WBM/ir

cc: U. S. G. S. Roswell, New Mexico

Commissioner of Public Lands - Santa Fe, New Mexico

C
O
P
Y

PACIFIC NORTHWEST PIPELINE CORPORATION

PHONE 3-3547 • SIMMS BUILDING

ALBUQUERQUE, NEW MEXICO

May 26, 1955

for
ecc
files

Re: Supplemental Plan of Development
San Juan 32-8 Unit #14-08-001-446,
Supplemental Plan of Development
for 1955, Rio Arriba County,
New Mexico

Regional Supervisor
United States Geological Survey
Department of Interior
Roswell, New Mexico

Commissioner of Public Lands
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Gentlemen:

Pacific Northwest Pipeline Corporation, as Unit Operator, submits for your approval a Supplemental Plan of Development for 1955, for the San Juan 32-8 Unit, Rio Arriba County, New Mexico.

In addition to the six wells included in the approved Plan of Development for 1955, filed April 13, 1955, with the United States Geological Survey, Commissioner of Public Lands, and the Oil Conservation Commission of the State of New Mexico, Pacific Northwest Pipeline Corporation, as Unit Operator, plans to drill Mesaverde wells on the following fully owned Pacific Northwest Pipeline Corporation drilling blocks during the remainder of the year 1955:

Township 31 North, Range 8 West

Sec. 23: $W\frac{1}{2}$
Sec. 22: $E\frac{1}{2}$
Sec. 9: $W\frac{1}{2}$

(2)

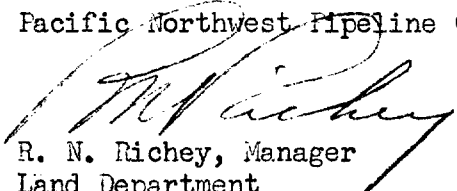
May 26, 1955

Pacific plans to drill these wells to casing point with conventional hydraulic rotary tools and to drill the pay section with gas tools, individually sand-oil, fracturing the Cliff House, Menefee (where gas productive), and Point Lookout sands of the Mesaverde.

Your approval of this supplemental Plan of Development for the remainder of the calendar year 1955, is respectfully requested.

Very truly yours,

Pacific Northwest Pipeline Corporation


R. N. Richey, Manager
Land Department

DNC:bh

APPROVED: _____ DATE: _____
Supervisor, United State Geological Survey

Subject to like approval by the appropriate State officials.

APPROVED: _____ DATE: _____
Commissioner of Public Lands

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED: W B Macey DATE 6-20-55
Oil Conservation Commission

Subject to like approval by the U.S.G.S. and Commission of Public Lands.

O. CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

April 30, 1955

**Phillips Petroleum Company
10th Floor West Wing
Phillips Building
Bartlesville, Oklahoma**

**Re: Amended Plan of Development 1955
San Juan 32-8 Unit
San Juan County, New Mexico**

Gentlemen:

This is to advise that the Amended Plan of Development for the above-captioned unit, dated April 13, 1955, has this date been approved by the New Mexico Oil Conservation Commission, subject to like approval by the United States Geological Survey and by the Commissioner of Public Lands of the State of New Mexico.

In addition to the proposed well, adequate offset wells must be drilled to protect the area from drainage as provided in the unit agreement.

One approved copy of said plan is returned herewith.

Very truly yours,

**W. B. Macey
Secretary-Director**

WBM:jh

**cc: USGS, Roswell
Commissioner of Public Lands, Santa Fe**



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P.O. Box 6721
Roswell, New Mexico

April 25, 1955

file

Phillips Petroleum Company
10th Floor West Wing-Phillips Building
Bartlesville, Oklahoma

Gentlemen:

The amended plan of development dated April 13, 1955, for the San Juan 32-S unit area, New Mexico, No. 14-08-001-446 has been approved on this date, subject to like approval by the appropriate State officials.

In addition to the proposed wells listed in the plan of development, adequate offset wells must be drilled to protect the unit area from drainage as provided in the unit agreement.

One approved copy of said plan is returned herewith.

Very truly yours,

John A. Anderson
JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Cons.Div., Wash. (w/1 copy of plan)
Farmington (w/1 copy of plan)
NMOCC, Santa Fe (ltr. only) ✓

AK

ILLEGIBLE

PHILLIPS PETROLEUM COMPANY

10th Floor West Wing - Phillips Building
BARTLESVILLE, OKLAHOMA

April 13, 1955

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico

Re: Amended Plan of Development 1955
San Juan 32-8 Unit, #14-08-001-446
San Juan County, New Mexico

Commissioner of Public Lands of the
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of the
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Gentlemen:

On December 31, 1954, Phillips Petroleum Company, as Unit Operator, submitted for your approval a Plan of Development for the year 1955 for San Juan 32-8 Unit Area. By letters dated February 4th and February 8th, respectively, Mr. John A. Anderson, Regional Oil and Gas Supervisor, and Mr. W. B. Macey, Secretary-Director of the New Mexico Oil Conservation Commission, accepted the Plan of Development and required an amended Plan be filed on or before April 15, 1955, providing for the drilling of not less than six (6) development and exploration wells to be drilled to the base of the Mesaverde formation unless production in paying quantities is found at a lesser depth.

All working interest owners in this Unit have been solicited for the purpose of complying with these requests, and Phillips Petroleum Company, as Unit Operator, now submits for your approval an amended Plan of Development for the year 1955 providing for the drilling of six (6) Mesaverde wells unless production in paying quantities is encountered at a lesser depth, at the following locations:

SW/4 Section 16-31N-8W
SW/4 Section 20-32N-8W
SW/4 Section 21-31N-8W
NE/4 Section 21-31N-8W
SW/4 Section 22-31N-8W
NE/4 Section 24-31N-8W

Phillips plans to drill these wells to casing point with conventional hydraulic rotary tools and to drill the pay section with gas tools. The Cliff House and Point Lookout sands of the Mesaverde formation will be separately treated with a sand-oil fracturing process.

At the present time, Phillips and other lease owners are in the process of transferring certain interests in leases in the San Juan Basin to Pacific Northwest Pipeline Corporation. This transfer should be completely consummated within the next few weeks and it is expected that immediately thereafter, Pacific Northwest will desire to amend this Plan of Development by providing for the drilling of other wells in addition to those listed herein.

Amended Plan of Development 1955
San Juan 32-8 Unit

-2-

April 13, 1955

Your approval of this Plan is respectfully requested.

Very truly yours,

PHILLIPS PETROLEUM COMPANY
Unit Operator

BY G. E. Benskin
G. E. BENSKIN

GEB:wg
cc: See attached

APPROVED: _____ DATE: _____
Supervisor, United States Geological Survey

Subject to like approval by the appropriate State officials.

APPROVED: _____ DATE: _____
Commissioner of Public Lands

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED: Pat Hume _____ DATE: 4/13/55
Oil Conservation Commission

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

OIL CONSERVATION COMMISSIO.

P. O. BOX 871

SANTA FE, NEW MEXICO

February 8, 1955

C
O
P
Y

Phillips Petroleum Company
10th Floor - Phillips Building
Bartlesville, Oklahoma

Attention: Mr. R. N. Richey

file
case 446
Re: San Juan 32-8 Unit
Rio Arriba County, New Mexico
1955 Plan of Development

Gentlemen:

This is to advise that the Plan of Development for calendar year 1955, dated December 31, 1954, for the subject unit has this date been accepted by the New Mexico Oil Conservation Commission as minimum compliance with the obligation of unit operator to submit a Plan of Development, pursuant to article 10 of the Unit Agreement.

This Plan of Development is therefore accepted only on the condition that on or before April 15, 1955, a supplemental Plan of Development be filed, providing for the drilling of a minimum of six development and/or exploratory wells to a depth sufficient to adequately test the Mesaverde formation, unless unitized substances in paying quantities are encountered at lesser depth. In addition, adequate provision must be made to protect the unitized lands from drainage. We feel that due to the large amount of acreage comprising this unit, such a Plan of Development is not unreasonable and should lead to the orderly development of the subject area.

This approval is being granted subject also to the condition that like approval be obtained from the United States Geological Survey and from the Commissioner of Public Lands of the State of New Mexico.

One approved copy of the Plan is herewith returned.

WBM
Very truly yours,

W. B. Macey
Secretary - Director

WBM:jh



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 6721
Roswell, New Mexico

February 4, 1955

Phillips Petroleum Company
10th Floor West Wing - Phillips Building
Bartlesville, Oklahoma

Gentlemen:

The 1955 plan of development dated December 31, 1954, for the San Juan 32-8 unit agreement is accepted subject to similar acceptance by the appropriate State officials as bare compliance with that provision of Sec. 10 of the unit agreement requiring that a plan be filed. An amended plan of development for 1955 providing for the drilling of not less than six development and exploration wells drilled at least to the base of the Mesaverde formation unless production in paying quantities is found at a lesser depth and, in addition, adequate offsets to protect the unitized lands from drainage, must be submitted for approval not later than April 15, 1955.

One copy of said plan indicating acceptance by this office is returned herewith.

Very truly yours,

JOHN A. ATTERSON
Regional Oil and Gas Supervisor

Copy to: Cons.Div., Wash.D.C., (w/1 copy of plan)
Farmington (w/1 copy of plan)
N.M.O.C.C., Santa Fe (ltr. only)

PHILLIPS PETROLEUM COMPANY

10th Floor West Wing - Phillips Building
BARTLESVILLE, OKLAHOMA

December 31, 1954

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico

Re: Plan of Development 1955
San Juan 32-8 Unit
#14-08-001-446
Rio Arriba County,
New Mexico

Commissioner of Public Lands of the
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of the
State of New Mexico
Capitol Annex Building
Santa Fe, New Mexico

Gentlemen:

Phillips Petroleum Company, as Unit Operator, submits for your approval a Plan of Development for 1955 for the San Juan 32-8 Unit, Rio Arriba County, New Mexico.

CURRENT STATUS OF DEVELOPMENT

The following table reflects the current status of development of the Mesaverde formation in the Unit:

<u>Well</u>	<u>Location</u>	<u>Spud Date</u>	<u>Test Date</u>	<u>Potential</u>	<u>Remarks</u>
1-23	NE/4 Sec. 23-31N-8W	12/20/52	4/10/53	1,540 MCFGPD	Shut-in
2-29	SW/4 Sec. 29-32N-8W	3/ 8/53	7/27/54	833 MCFGPD	Shut-in
3-17	SW/4 Sec. 17-32N-8W	5/10/53	11/30/53	1,190 MCFGPD	Shut-in
4-15	SW/4 Sec. 15-32N-8W	7/29/53	12/14/53	560 MCFGPD	Shut-in
5-10	SW/4 Sec. 10-31N-8W	9/25/53	12/30/53	1,140 MCFGPD	Shut-in
6-35	NE/4 Sec. 35-32N-8W	10/ 6/53	12/30/53	537 MCFGPD	Shut-in

All wells were shot with nitroglycerin.

As of December 31, 1954, the Unit Participating Area consisted of the W/2 Sections 15, 17, 20, and 29 and E/2 Section 35, in township 32 North, Range 8 West, W/2 Section 10 and E/2 Section 23, Township 31 North, Range 8 West. Small quantities of gas have been produced from the Unit to supply camp and drilling requirements, but none has been delivered to commercial pipelines.

Plan of Development
San Juan 32-8 Unit

-2-

December 31, 1954

1955 DEVELOPMENT PROGRAM

Phillips Petroleum Company, as Unit Operator, plans to drill a Mesaverde well at the following location in the summer of 1955:

SW/4 of Section 20, Township 32 North, Range 8 West, N.M.P.M.

Phillips Petroleum Company plans to drill this well to casing point with conventional hydraulic tools and to drill the pay section with gas tools, individually sand-oil fracturing the Cliff House and Point Lookout sands of the Mesaverde.

It is now anticipated that during the first quarter of the year Pacific Northwest Pipeline Corporation will acquire a majority of the acreage within this Unit and will immediately thereafter request an expanded drilling program. Phillips Petroleum Company, as Unit Operator, will consult with your offices as Pacific's plans mature, and will submit amended or expanded Plans of Development as required.

Your approval of this plan is respectfully requested.

Very truly yours,

PHILLIPS PETROLEUM COMPANY
Unit Operator

By


R. N. Richey

RNR/wr
cc: See Attached.

APPROVED: _____ DATE: _____
Supervisor, United States Geological Survey

Subject to like approval by the appropriate State officials.

APPROVED: _____ DATE: _____
Commissioner of Public Lands

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

ACCEPTED
APPROVED: /s/ WBrm DATE: 2/8/55
Oil Conservation Commission

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.
accepted subject to conditions of acceptance as set forth in attached letter of transmittal

Plan of Development
San Juan 32-8 Unit

December 31, 1954

Copies of the foregoing Plan of Development have been sent to the following:

Manager - Bureau of Land Management
El Paso Natural Gas Company - R. L. Hamblin
Stanolind Oil and Gas Company - C. F. Bedford
Sunray Oil Corporation
General American Oil Company of Texas - W. H. Sparks
Skelly Oil Company
The Texas Company
Mike and Roseline Abraham
Messrs: P. T. McGrath
H. H. Phillips
A. M. Rippel
K. E. Beall
R. B. Stewart
L. E. Fitzjarrald
M. B. Heine
R. E. Parr
R. L. Powell
R. L. Pulsifer (2)
E. R. Holt
D. M. McBride
F. D. Smythe (2)
G. P. Bunn
P. B. Cordry
T. E. Smiley
S. E. Redman
E. A. Humphrey (2)
M. A. Tippie
R. C. Charles
H. M. Young
W. M. Freeman
C. B. McDonald
R. D. Wilbur
F. R. Burgess
F. R. Wheeler
R. B. Edmundson



446
IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
MAIN OFFICE GEOLOGICAL SURVEY
P. O. Box 6721
Roswell, New Mexico

August 26, 1954

Phillips Petroleum Company
10th Floor West Wing - Phillips Building
Bartlesville, Oklahoma

Gentlemen:

The plan of development dated June 7, 1954, for the remainder of the calendar year 1954, for the San Juan 32-8 unit agreement, New Mexico No. 14-08-001-446, has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is returned herewith.

Very truly yours,

(Orig. 446) R. E. CANFIELD

R. E. CANFIELD
Acting Regional Oil and Gas Supervisor

Enclosure

Copy to: Cons.Div., Wash.D.C. (w/1 copy of plan)
N.M.O.C.C. Santa Fe

446

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

July 16, 1954

C
O
P
Y

Phillips Petroleum Company
10th Floor Phillips Building
Bartlesville, Oklahoma

RE: San Juan 32-8 Unit 1954
plan of development.

Gentlemen:

Reference is made to your letter of June 7, 1954 requesting approval of the 1954 plan of development for the above captioned unit.

We wish to call your attention to the possibility of drainage from the unit area caused by El Paso Natural Gas Company's #1 Hale well in the NE/4 of Section 27, Township 31 North, Range 8 West and El Paso's #2 Kernaghan well in the NE/4 of Section 23, Township 31 North, Range 8 West.

It is suggested that your 1954 development program for this unit be amended to include the drilling of a well in the SW/4 of Section 22, Township 31 North, Range 8 West to eliminate the possibility of drainage from the unit area.

Very truly yours,

W. B. Macey
Secretary - Director

WBM:jh

cc: U. S. G. S.
Roswell, New Mexico

State Land Office
Santa Fe, New Mexico

MAIN OFFICE COC

PHILLIPS PETROLEUM COMPANY

10th Floor West Wing - Phillips Building
BARTLESVILLE, OKLAHOMA

June 7, 1954

Re: San Juan 32-8 Unit, #14-08-001-446
San Juan County, New Mexico
PLAN OF DEVELOPMENT FOR 1954

Regional Supervisor
United States Geological Survey
Department of the Interior
P. O. Box 6721
Roswell, New Mexico

Commissioner of Public Lands of the
State of New Mexico
Capital Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of the
State of New Mexico
Capital Annex Building
Santa Fe, New Mexico

Gentlemen:

All drilling requirements of the Unit Agreement and Unit Operating Agreement for San Juan 32-8 Unit have been satisfied and Phillips Petroleum Company, as Unit Operator, now submits for your approval a Plan of Development for the remainder of 1954.

The San Juan 32-8 Unit Area embraces 27,500.28 acres, more or less, in San Juan County, New Mexico, of which 26,756.14 acres are committed to the Unit. The Unit Area includes all of Township 32 North, Range 8 West, and also extends into Township 31 North, Range 8 West.

Altogether Phillips Petroleum Company, as Unit Operator, has drilled six (6) wells on this Unit. One (1) well is shut-in for test in the Mesaverde formation and five (5) wells are completed in the Mesaverde formation and are now awaiting market.

The following table reflects the status of Unit development to date:

<u>Well</u>	<u>Location</u>	<u>Spud</u>	<u>Completion</u> <u>Date</u>	<u>MCF</u> <u>3 hr. tst.</u>	<u>Producing</u> <u>Formation</u>	<u>Remarks</u>
1-23*	NE/4 Sec. 23-31N-8W	12-20-52	4-10-53	1,540	Mesaverde	Depth 6240'
2-29*	SW/4 Sec. 29-32N-8W	4-8-53			Mesaverde	Depth 5830' S.I. for tst.
3-17*	SW/4 Sec. 17-32N-8W	6-10-53	11-30-53	1,190	Mesaverde	Depth 5962'
4-15*	SW/4 Sec. 15-32N-8W	7-29-53	12-14-53	560	Mesaverde	Depth 6445'
5-10*	SW/4 Sec. 10-31N-8W	9-25-53	12-30-53	1,140	Mesaverde	Depth 6040'
6-35*	NE/4 Sec. 35-32N-8W	10-6-53	12-30-53	537	Mesaverde	Depth 6060'

* Required Mesaverde wells set out in Unit Agreement.

San Juan 32-8 Unit
Plan of Development for 1954

-2-

June 7, 1954

No gas has been sold to pipeline companies and also no gas has been used for fuel or drilling on or off the Unit.

Development to date has reasonably demonstrated the productivity of the Unit Area in the Mesaverde formation. No intervening Drilling Blocks have been created.

As Unit Operator, we have canvassed the owners of all working interest committed to the Unit and none desire wells drilled on their Unit lands during the remainder of the year.

All the holdings of Phillips Petroleum Company within San Juan 32-8 Unit are subject to a Contract of Sale conditioned upon the issuance by the Federal Power Commission of a Certificate of Public Convenience and Necessity for the construction and operation of a gas pipeline system extending from San Juan Basin to markets in the Northwest part of the United States and intervening points. An application for the certificate has been prosecuted diligently before the Commission and it is anticipated that a decision will be rendered during the summer of this year.

The gas contained within Phillips' land committed to San Juan 32-8 Unit is a material portion of the reserves upon which the pipeline application is based and which are represented to the Federal Power Commission as available for the proposed pipeline upon its completion. Consequently, Phillips Petroleum Company does not desire to drill development wells for its own account or to produce existing wells pending the forthcoming action of the Federal Power Commission and pending commencement of construction of the proposed pipeline should a Certificate of Public Convenience and Necessity be issued.

Since (1) development to date has reasonably proved the productivity of the Unit Area and (2) there are no existing intervening Drilling Blocks which would necessitate the drilling of additional wells at this time under the provisions of the Unit Agreement and (3) none of the working interest owners within the Unit desire drilling at this time, Phillips Petroleum Company, as Unit Operator, plans to drill during the remainder of 1954 only such wells if any, as you may require for the protection of the Unit against drainage, or as you may otherwise require.

Your approval of this Plan of Development for the remainder of the year 1954 is respectfully requested.

Yours very truly

PHILLIPS PETROLEUM COMPANY

By 

Vice President

RNR:pw

Acknowledgements and distribution attached.

APPROVED: _____ Date: _____
Supervisor, United States Geological Survey

Subject to like approval by the appropriate State officials.

APPROVED: _____ Date: _____
Commissioner of Public Lands of the State of New Mexico

Subject to like approval by the U.S.G.S. and Oil Conservation Commission.

APPROVED: W. B. Macey _____ Date: 6/7/54
Oil Conservation Commission of the State of New Mexico

Subject to like approval by the U.S.G.S. and Commissioner of Public Lands.

cc: Manager - Bureau of Land Management

El Paso Natural Gas Company

Stanolind Oil and Gas Company

Sunray Oil Corporation

Skelly Oil Company

The Texas Company

Messrs. ~~J. Glenn Turner~~

P. T. McGrath

Mike Abraham & Roseline Abraham

H. H. Phillips

A. M. Rippel

K. E. Beall

R. B. Stewart

L. E. Fitzjarrald

D. E. Fryhofer

H. E. Koopman

R. E. Parr

R. L. Powell

R. L. Pulsifer (3)

E. R. Holt

D. M. McBride

F. D. Smythe (2)

G. P. Bunn

F. B. Cordry

T. E. Smiley (2)

S. E. Redman

M. A. Tippie

F. R. Burgess

G. E. Benskin

W. M. Freeman

R. B. Edmundson

G. L. Sneed

Val Reese

E. A. Humphrey (3)

El Paso Natural Gas Company

TENTH FLOOR BASSETT TOWER

El Paso, Texas

September 3, 1954

Mr. John A. Anderson
Regional Supervisor
United States Geological Survey
P. O. Box 6721
Roswell, New Mexico

Mr. E. S. Walker
Commissioner of Public Lands
Box 791
Santa Fe, New Mexico

Mr. W. B. Macey
Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Re: San Juan 32-8 Unit
No. 14-08-001-446

Gentlemen:

We are in receipt of determination by Phillips Petroleum Company dated August 20, 1954, as Operator of the San Juan 32-8 Unit, that the San Juan 32-8 Mesa Well #2-29 is capable of producing unitized substances in paying quantities, and that the well and the W/2 of Section 29, T-32-N, R-8-W, should be admitted to the Mesaverde participating area.

We do not intend to protest this determination inasmuch as we do not feel that we can carry the burden of disproving such determination. Neither do we feel that this determination is prejudicial nor discriminatory to anyone in this Unit. The well appears to be an average well for this Unit.

Yours very truly,

EL PASO NATURAL GAS COMPANY

By R. L. Hamblin
R. L. Hamblin, Manager
Lease Department

RLH:ms

MAIN OFFICE 000

PHILLIPS PETROLEUM COMPANY

10th Floor West Wing - Phillips Building
BARTLESVILLE, OKLAHOMA

August 20, 1954

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico

Re: San Juan 32-8 Unit,
No. 14-08-001-446
San Juan County, New Mexico
SECOND REVISION OF MESAVERDE
PARTICIPATING AREA
Effective August 1, 1954

Commissioner of Public Lands
of the State of New Mexico
Capital Annex Building
Santa Fe, New Mexico

Oil Conservation Commission
of the State of New Mexico
Capital Annex Building
Santa Fe, New Mexico

Gentlemen:

This letter and attached schedules is given to correctly reflect this expansion as being the "Second Revision of Mesaverde Participating Area" instead of the "Third Revision of Mesaverde Participating Area" as reflected in our letter and attached schedules dated August 12, 1954. Also Blanche Trigg's overriding royalty interest under Skelly's Tract #4 is effectively committed to San Juan 32-8 Unit. Pursuant to Mr. R. N. Richey's letter dated February 16, 1954, the previous Second Revision of Mesaverde Participating Area was redesignated as "Amended First Revision of Mesaverde Participating Area" and for uniformity the above change should be made. For the correction of your records please substitute this letter and attachments for the ones forwarded by letter dated August 12, 1954.

Pursuant to Section 11 (a) of the San Juan 32-8 Unit Agreement, approved January 13, 1953, Phillips Petroleum Company, as Unit Operator, has determined as of July 27, 1954, that a sixth well capable of producing unitized substances in paying quantities from the Mesaverde formation has been completed upon acreage committed to this Unit and the participating area for the Mesaverde formation is accordingly expanded. The well data upon which this second revision is based is as follows:

WELL DESIGNATION:	San Juan 32-8 Mesa Well #2-29
LOCATION:	1090' north of south line and 1850' east of west line of Section 29, Township 32 North, Range 8 West, N.M.P.M.
ELEVATION:	6280' (DF)
SPUD DATE:	March 8, 1953
CASING:	9 5/8" cemented at 174' with 110 sx, 7" cemented at 4991' with 200 sx
TOTAL DEPTH:	5830'

DRILLING METHODS: Conventional to casing point; Mesaverde drilled with gas

COMPLETION METHODS: Mesaverde shot between 5230' and 5830' with 1845 qts. of S.O.W.E. #1

TUBING: 1 1/4" set at 5810', perforated 5794' to 5810', 1/4" jet hole at 5190'

COMPLETION TEST DATA

DATE: July 27, 1954

SHUT-IN PERIOD: 217 days

FINAL SHUT-IN PRESSURES: Tubing 955#
Casing 947#

RATE BY PITOT TUBE AFTER 3 HOUR BLOW DOWN: 833.8 MCFGPD through tubing

WORKING PRESSURE: 701# on casing

The Drilling Block upon which this well is located is described as the W/2 Section 29-32N-8W, N.M.P.M., and is designated as #34 on the attached plat.

By the completion of this well an intervening Drilling Block exists between the San Juan 32-8 Mesa Well #3-17 and the San Juan 32-8 Mesa Well #2-29. This Drilling Block is described as the W/2 Section 20-32N-8W, N.M.P.M., and is designated as #15 on the attached plat, and consists of 320 acres. Under the terms of the Unit Agreement, this intervening Drilling Block is admitted to the participating area on August 1, 1954, the time of admission of the San Juan 32-8 Mesa Well #2-29, and a well must be commenced on said intervening Drilling Block by August 1, 1955.

Attached are schedules showing lands and leases committed and the ownership thereof, together with schedule of allocation of production from the expanded participating area. An index plat designating by number each Drilling Block within the Unit Area and indicating those which have been admitted to the participating area is also attached. These attachments are listed as follows:

1. Schedule IV - Second Revised Mesaverde Participating Area.
2. Exhibit "A" - Schedule of leases and ownerships for second revision of Mesaverde participating area.

Second Revision
32-8 Unit

-3-

August 20, 1954

3. Exhibit "B" - Schedule of allocation of production from second revised Mesaverde participating area.
4. Exhibit "C" - Index plat showing Drilling Blocks designated by number and showing effective date of inclusion in participating area.

Very truly yours

PHILLIPS PETROLEUM COMPANY
Unit Operator

By G. E. Benskin *RE*
G. E. Benskin - San Juan Division

GEB:DNC:wg

cc: Manager - Bureau of Land Management
El Paso Natural Gas Company
Stanolind Oil and Gas Company
Sunray Oil Corporation
General American Oil Company of Texas
Skelly Oil Company
The Texas Company
Messrs: P. T. McGrath
Mike Abraham & Roseline Abraham
H. H. Phillips
L. E. Fitzjarrald
D. E. Fryhofer
G. L. Sneed
M. B. Heine
R. E. Parr
R. L. Powell
A. M. Rippel
R. B. Stewart
R. L. Pulsifer (2)
E. R. Holt
D. M. McBride
F. D. Smythe (2)
G. P. Bunn
P. B. Cordry
T. E. Smiley (2)
S. E. Redman
E. A. Humphrey (2)
M. A. Tippie
F. R. Burgess
H. M. Young
W. M. Freeman
Val Reese
K. E. Beall
R. B. Edmundson

SCHEDULE IV
SECOND EXPANDED MESAVERDE PARTICIPATING AREA
SAN JUAN 32-8 UNIT
SAN JUAN COUNTY, NEW MEXICO
EFFECTIVE AUGUST 1, 1954

New Mexico Principal Meridian

Township 31 North, Range 8 West

Section 10: W/2

Section 23: E/2

Township 32 North, Range 8 West

Section 15: W/2

Section 17: W/2

Section 20: W/2

Section 29: W/2

Section 35: E/2

The working interest under leases on the above described lands which have been committed to the Unit is vested:

Phillips Petroleum Company	71.4286%
El Paso Natural Gas Company	14.2857% *
Skelly Oil Company	14.2857%

* Upon reimbursement of development costs, ownership will be:

Gas Rights:

El Paso Natural Gas Company	3/4
General American Oil Company of Texas	1/4

Royalties are payable on production from these lands to the Government under the provisions of Federal leases:

SF 081089
SF 079013
SF 079353
SF 079381
SF 079004

The United States of America owns one-eighth (1/8) royalty interest in the above Federal leases.

- Attached find:
- (1) A schedule, marked Exhibit "A", showing leases included in the second expanded participating area.
 - (2) A schedule, marked Exhibit "B", a recap of committed acreage in the second expanded participating area.
 - (3) An index plat, marked Exhibit "C", showing Drilling Blocks designated by number and effective date of inclusion in participating area.

8/4/54
DNC:pw

EXHIBIT "A"
SECOND EXPANDED MESAVERDE PARTICIPATING AREA
SAN JUAN 32-8 UNIT
SAN JUAN COUNTY, NEW MEXICO
EFFECTIVE AUGUST 1, 1954

Tract #4 in Exhibit "B" of Unit Agreement

Lessee:	Skelly Oil Company	
Serial Number:	Santa Fe 079004	
Lease Description:	T 31N - R 8W	
	Sec. 10: NW/4, E/2 SW/4	
Amount of Acreage:	240.00 acres	
Percentage of Participation:		10.714286%
Overriding Royalty:	5.00%	.535714%
Royalty: U.S.A.	12.50%	1.339286%
Operating Rights:		
	Skelly Oil Company	100%
		8.839286%
San Juan 32-8 Mesa Well #5-10		

Tract #4 in Exhibit "B" of Unit Agreement

Lessee:	Skelly Oil Company	
Serial Number:	Santa Fe 079004	
Lease Description:	T 31N - R 8W	
	Sec. 10: W/2 SW/4	
Amount of Acreage:	80.00 acres	
Percentage of Participation:		3.571429%
Overriding Royalty:	5.0%	.178571%
Royalty: U.S.A.	12.5%	.446429%
Operating Rights:		
	Skelly Oil Company	100%
		2.946429%
San Juan 32-8 Mesa Well #5-10		

Tract #5 in Exhibit "B" of Unit Agreement

Lessee:	Phillips Petroleum Company	
Serial Number:	Santa Fe 079013	
Lease Description:	T 32N - R 8W	
	Sec. 17: W/2, Sec. 20: W/2, Sec. 29: W/2	
Amount of Acreage:	960.00 acres	
Percentage of Participation:		42.857143%
Overriding Royalty:	5.0%	2.142857%
Royalty: U.S.A.	12.5%	5.357143%
Operating Rights:		
	Phillips Petroleum Company	100%
		35.357143%
San Juan 32-8 Mesa Well #3-17		
San Juan 32-8 Mesa Well #2-29		
Intervening Drilling Block		

Tract #14 in Exhibit "B" of Unit Agreement

Lessee:	Phillips Petroleum Company	
Serial Number:	Santa Fe 079353	
Lease Description:	T 32N - R 8W	
	Sec. 15: W/2	
Amount of Acreage:	320.00 Acres	
Percentage of Participation:		14.285714%
Overriding Royalty:	5.0%	.714286%
Royalty: U.S.A.	12.5%	1.785714%
Operating Rights:		
	Phillips Petroleum Company	100%
		11.785714%
San Juan 32-8 Mesa Well #4-15		

Tract #16 in Exhibit "B" of Unit Agreement

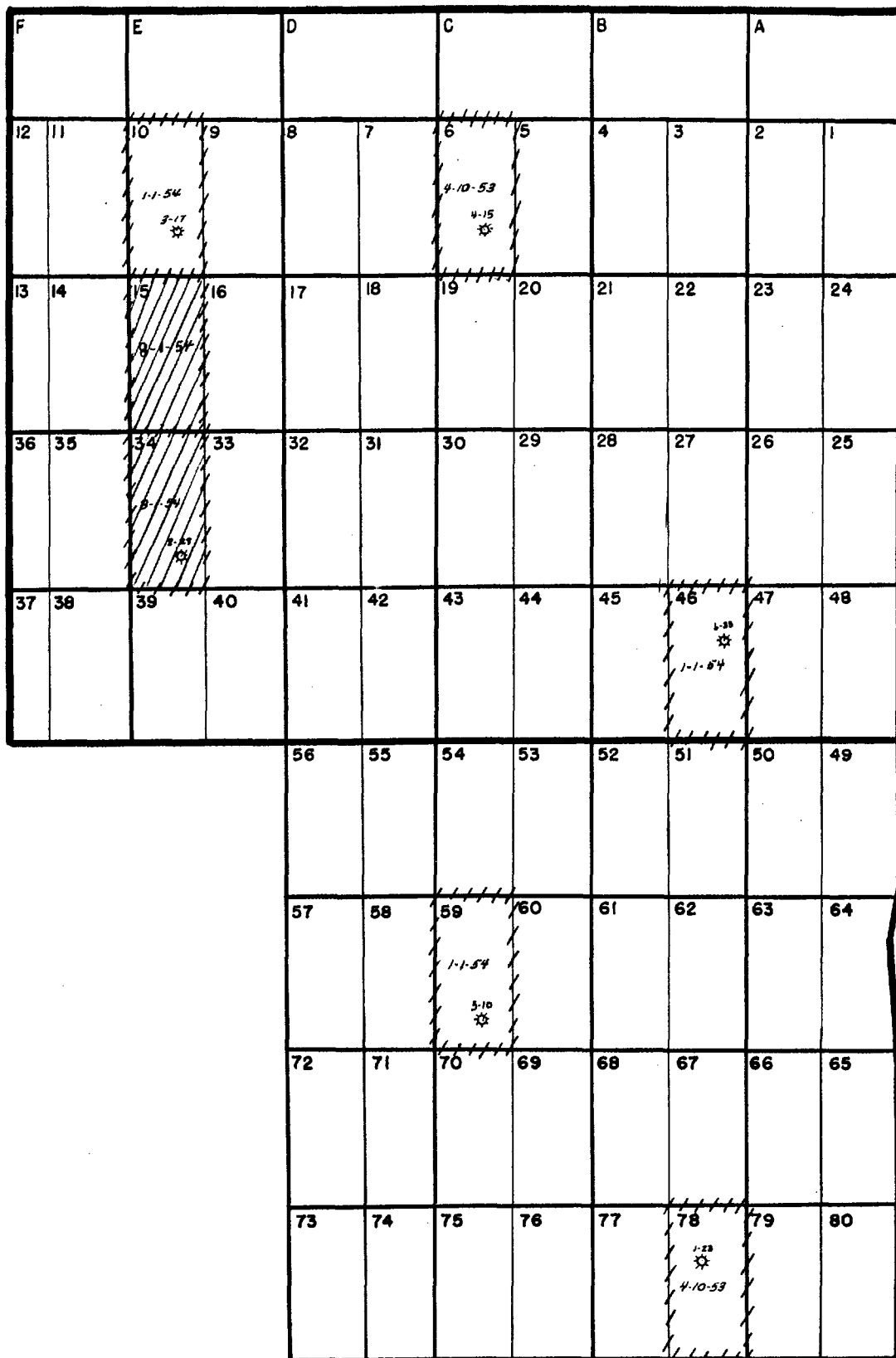
Lessee:	El Paso Natural Gas Company		
Serial Number:	Santa Fe 079381		
Lease Description:	T 32N - R 8W		
	Sec. 35: E/2		
Amount of Acreage:	320.00 Acres		
Percentage of Participation:			14.285714%
Overriding Royalty:	5.0%		.714286%
Royalty: U.S.A.	12.5%		1.785714%
Operating Rights:			
	El Paso Natural Gas Company	100% *	11.785714%
San Juan 32-8 Mesa Well #6-35			

* Upon reimbursement of development costs the ownership will be:

El Paso Natural Gas Company	3/4
General American Oil Company of Texas	1/4

Tract #20 in Exhibit "B" of Unit Agreement

Lessee:	Phillips Petroleum Company		
Serial Number:	Santa Fe 081089		
Lease Description:	T 31N - R 8W		
	Sec. 23: E/2		
Amount of Acreage:	320.00 Acres		
Percentage of Participation:			14.285714%
Overriding Royalty:	5.0%		.714286%
Royalty: U.S.A.	12.5%		1.785714%
Operating Rights:			
	Phillips Petroleum Company	100%	11.785714%
San Juan 32-8 Mesa Well #1-23			



T
32
N

T
31
N

R. 8 W.

EXHIBIT " C "

UNIT DRILLING BLOCKS
MESAVERDE PARTICIPATING AREA

SAN JUAN UNIT 32-8

SAN JUAN CO., NEW MEXICO

SCALE: 1" = 1 MILE

2nd Revision

Participating Area



Drilling Blocks Added To Participating
Area By This Revision



Effective Date Of Inclusion Is Shown On Each
Drilling Block Admitted To Participating Area.

400

PHILLIPS PETROLEUM COMPANY

10th Floor West Wing Phillips Building

BARTLESVILLE, OKLAHOMA

March 23, 1954

MAIN OFFICE OCC

1954 MAR 29 AM 9:03

Re: San Juan 32-8 Unit
Mesa #1-23 Well
Determination of Effective Date
of Initial Participating Area

Director
United States Geological Survey
Department of the Interior
Washington, D. C.

Commissioner of Public Lands of the
State of New Mexico
Capital Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of the
State of New Mexico
Capital Annex Building
Santa Fe, New Mexico

Gentlemen:

Pursuant to a recent directive, the effective date of an initial participating area is to be the date of first production which has been determined to be the date the well was completed. In accordance with the above, this is to advise you of our determination regarding the effective date of first production for the initial participating area of the Mesaverde formation for the San Juan 32-8 Unit #1-23 well.

This well was completed on April 10, 1953, thus according to the above noted directive from your office, the effective date of this participating area for the Mesaverde formation is April 10, 1953.

Yours very truly,

PHILLIPS PETROLEUM COMPANY
Unit Operator

BY


R. N. RICHEY - San Juan Division

RNR:RBE:wg
cc: See attached

PHILLIPS PETROLEUM COMPANY

10th Floor West Wing - Phillips Building

BARTLESVILLE, OKLAHOMA

February 16, 1954

Regional Supervisor
United States Geological Survey
Department of the Interior
Roswell, New Mexico

Commissioner of Public Lands of the
State of New Mexico
Capital Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of the
State of New Mexico
Capital Annex Building
Santa Fe, New Mexico

Gentlemen:

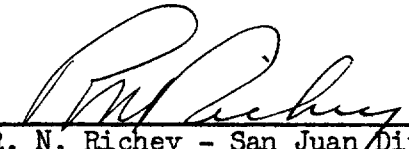
By letter dated December 16, 1953, Phillips Petroleum Company, as Unit Operator, advised you of the First Revision of the Mesaverde Participating Area of San Juan 32-8 Unit, #14-08-001-446, to become effective January 1, 1954. By letter dated January 25, 1954, you were advised of a Second Revision determined as of December 29, 1953, and like the First Revision, effective as of January 1, 1954. Schedule III attached to the Second Revision was noted to supersede Schedule II issued with the First Revision.

Hereafter only one Revision will be made effective as of the first of any month, and that single Revision will include all Drilling Blocks qualifying for inclusion in the Participating Area in the Unit during the preceding month.

In order to conform the two expansions which were effective January 1, 1954, with this policy, the second Revision of Mesaverde Participating Area set out in our letter of January 25, 1954, has been redesignated "Amended First Revision of Mesaverde Participating Area". You are requested to correct your records accordingly.

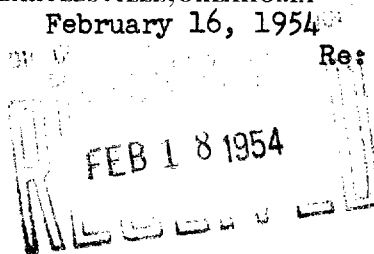
Yours very truly

PHILLIPS PETROLEUM COMPANY
Unit Operator

By 
R. N. Richey - San Juan Division

RNR:pw
cc: See Attached

Re: San Juan 32-8 Unit, #14-08-001-446
San Juan County, New Mexico
AMENDED FIRST REVISION OF
MESAVERDE PARTICIPATING AREA.



MAIN OFFICE OCC

PHILLIPS PETROLEUM COMPANY

10th Floor West Wing - Phillips Building 1954 MAR 17 AM 11:57
BARTLESVILLE, OKLAHOMA

LAND AND GEOLOGICAL DEPARTMENT

C. O. STARK, VICE PRESIDENT
D. E. LOUNSBERY, CHIEF GEOLOGIST
D. C. HEMSELL, MGR. LAND DIVISION
W. B. WEEKS, MGR. GEOLOGICAL SECTION
A. J. HINTZE, MGR. EXPLORATION SECTION

March 15, 1954

Re: San Juan 32-8 Unit
Unit No. 14-08-001-446
San Juan County, New Mexico

Regional Supervisor
United States Geological Survey
Post Office Building
Roswell, New Mexico

Commissioner of Public Lands of the State of New Mexico
Capital Annex Building
Santa Fe, New Mexico

Oil Conservation Commission of the State of New Mexico ← COPY FOR
Capital Annex Building
Santa Fe, New Mexico

Gentlemen:

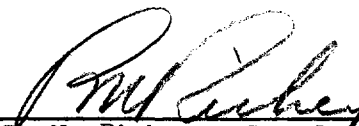
Enclosed is a Ratification and Joinder of Unit Agreement, executed by Blanche Trigg, covering her interest under Tract #4 of Exhibit "B" to San Juan 32-8 Unit Agreement.

Since this Ratification and Joinder of Unit Agreement was obtained subsequent to the approval of San Juan 32-8 Unit, it was necessary to have the approval of Phillips Petroleum Company, Unit Operator, and Skelly Oil Company, Working Interest Owner, accepting this acreage to the Unit.

This has been done and we are sending you a copy of this Ratification and Joinder for the completion of your copy of the Unit Agreement.

Yours very truly,

PHILLIPS PETROLEUM COMPANY

By 
H. N. Richey - San Juan Division

RNR:DNC:ndb
Enclosure
cc: See Attached List

March 15, 1954
San Juan 32-8 Unit

Copies of the following letter have been sent to the following Working Interest Owners:

El Paso Natural Gas Company
10th Floor Bassett Tower
El Paso, Texas

Stanolind Oil and Gas Company
Stanolind Building
Tulsa, Oklahoma

Stanolind Oil and Gas Company
Oil and Gas Building
Fort Worth, Texas

Sunray Oil Corporation
First National Building
Tulsa, Oklahoma

Mike Abraham & Roseline Abraham
512 Amerst Dr., S.E.
Albuquerque, New Mexico

General American Oil Company of Texas
Republic Bank Building
Dallas, Texas

Skelly Oil Company
Skelly Building
Tulsa, Oklahoma

The Texas Company
P. O. Box 1720
Fort Worth, Texas

H. H. Phillips
306 Milam Building
San Antonio 5, Texas

T 4

RATIFICATION AND JOINDER OF UNIT AGREEMENT

In consideration of the execution of the Unit Agreement for the Development and Operation of the San Juan 32-8 Unit Area located within the County of ~~Reconquista~~ ^{SAN JUAN}, State of New Mexico, in form approved on behalf of the Secretary of the Interior, the undersigned owners of lands or leases, or interests therein or royalties presently held or which may arise under existing option agreements, or other interests in production covered by said Unit Agreement hereby severally, each to the extent of his or her particular ownership or interest, as may appear, consent to the inclusion of said lands within the Unit Area therein defined, ratify, approve and adopt the terms of said Unit Agreement and any modifications thereof approved by the Secretary of the Interior or his duly authorized representative as applicable to said several lands and interests, agree that the term of any lease given by the undersigned or under which the undersigned claims an interest herein is extended and modified to the extent necessary to make the same conform to the terms of said Unit Agreement, agree that the drilling, development and producing requirements of all leases and other contracts in which their several rights and interests are created or defined shall be deemed fully performed by performance of the provisions of said Unit Agreement, and agree that payment for or delivery of (whichever may be required under prior agreements) oil and gas duly made at contract rates applied to the production allocated under said Unit Agreement to the particular lands to which such rights or interests do or shall apply, regardless of actual production therefrom, shall constitute full performance of all such obligations to the undersigned existing under such leases or other contracts.

This Ratification and Joinder of Unit Agreement may be executed in any number of counterparts with the same force and effect as if all parties had signed the same document and shall be binding upon all those who execute a counterpart hereof, regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands affected hereby, and when so executed shall be binding upon the undersigned, his or her assigns or successors in interest.

ADDRESS

819 Parkland Circle, S.E.

Albuquerque, New Mexico

Date: February 8, 1954

Skelly Building

Tulsa, Oklahoma

Date: February 24, 1954

SIGNATURE

Blanche Trigg
Blanche Trigg

ACCEPTED:

SKELLY OIL COMPANY

By: Arch H. Hyden
Vice-President

ATTEST: W. H. Hauler
Asst. Secretary

ACCEPTED:
PHILLIPS PETROLEUM COMPANY
UNIT OPERATOR

By: [Signature]
Vice President

STATE OF Oklahoma)
COUNTY OF Adair) SS.:

On this 24th day of February, 1954, before me appeared ARCH H. HYDEN, to me personally known, who, being by me duly sworn, did say that he is the President of SHREVE OIL COMPANY and that the seal affixed to said instrument is the corporate seal of said corporation, and that said instrument was signed and sealed in behalf of said corporation by authority of its board of directors, and said ARCH H. HYDEN acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate first above written.

My Commission expires:

HAZEL M. BRADY
Notary Public, Tulsa County, Oklahoma
My Commission Expires January 1, 1955

Hazel M. Brady
Notary Public in and for Tulsa County,
State of Oklahoma

New Mexico Corporation Acknowledgement

STATE OF Oklahoma)
COUNTY OF Washington) SS

On this 11th day of March, 1954, before me appeared C. O. Stark, to me personally known, who, being by me duly sworn, did say that he is Vice President of Phillips Petroleum Company, a corporation, and that the seal affixed to said instrument is the corporation seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Directors, and that said C. O. Stark acknowledged said instrument to be the free act and deed of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal the day and year in this certificate above written.

McGaughey
Notary Public

My commission expires: January 14, 1956

On this 8th day of February, 1954, before me personally appeared Blanche Trigg, a single person, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that she executed the same as her free act and deed.

My Commission expires:

My Commission Expires September 27, 1955

Gene Cuskey
Notary Public in and for Bernalillo County,
State of New Mexico

ILLEGIBLE