IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 965
Farmington, New Mexico

COPY TO O. C. C.

August 4, 1955

Pacific Northwest Pipeline Corporation
413½ West Main Street
Farmington, New Mexico

Re: Santa Fe 078282
14-08-001-437

Gentlemen:

Receipt is acknowledged of your "Intention to Drill" dated August 2, 1955 covering your well No. 11-19 San Juan 29-5 Unit in NE¼ SW¼ sec. 19, T. 29 N., R. 5 W., N. M. P. M., Rio Arriba County, New Mexico, Blanco pool.

Your proposed work is hereby approved subject to compliance with the provisions of the "Oil & Gas Operating Regulations" revised May 25, 1948, a copy of which will be sent to you on request, and subject to the following conditions:

1. Drilling operations so authorized are subject to the attached sheet for general conditions of approval.

2. Furnish copies of all logs.

Very truly yours,

(Orig. Sgd.) P. T. McGrath

P. T. McGrath
District Engineer

PTMcGrath:al

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DIST. 3

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

[illegible]
[illegible], New Mexico

COPY TO O.C.C.

[illegible] 26, 1955

[illegible] Petroleum Corporation
[illegible] Fast Main Street
[illegible], New Mexico

[illegible] Santa Fe Project
[illegible]

Gentlemen:

Please be acknowledged [illegible] information on drilling [illegible] dated August 4, 1955 concerning your well No. 11-12 San Juan [illegible] in NE¼ [illegible], Sec. 12, T. 29 N., R. 9 W., [illegible], San Juan County, New Mexico, Three copies [illegible].

Your proposed work is hereby approved subject to conditions [illegible] the provisions of the "Rules and Regulations [illegible] Mineral Leased Lands", 30 CFR, 221, a copy of which will be sent [illegible] on request, and subject to the following conditions:

1. Drilling operations on unsurveyed land are subject to the additional usual Interior conditions of approval.

2. Periodic copies of all logs.

Very truly yours,

[illegible]

[illegible]
District Engineer

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NEW MEXICO

OIL CONSERVATION COMMISSION

Gas Well Plat

Date August 2, 1955

Pacific Northwest Pipeline Corp. Santa Fe 078262 11-19

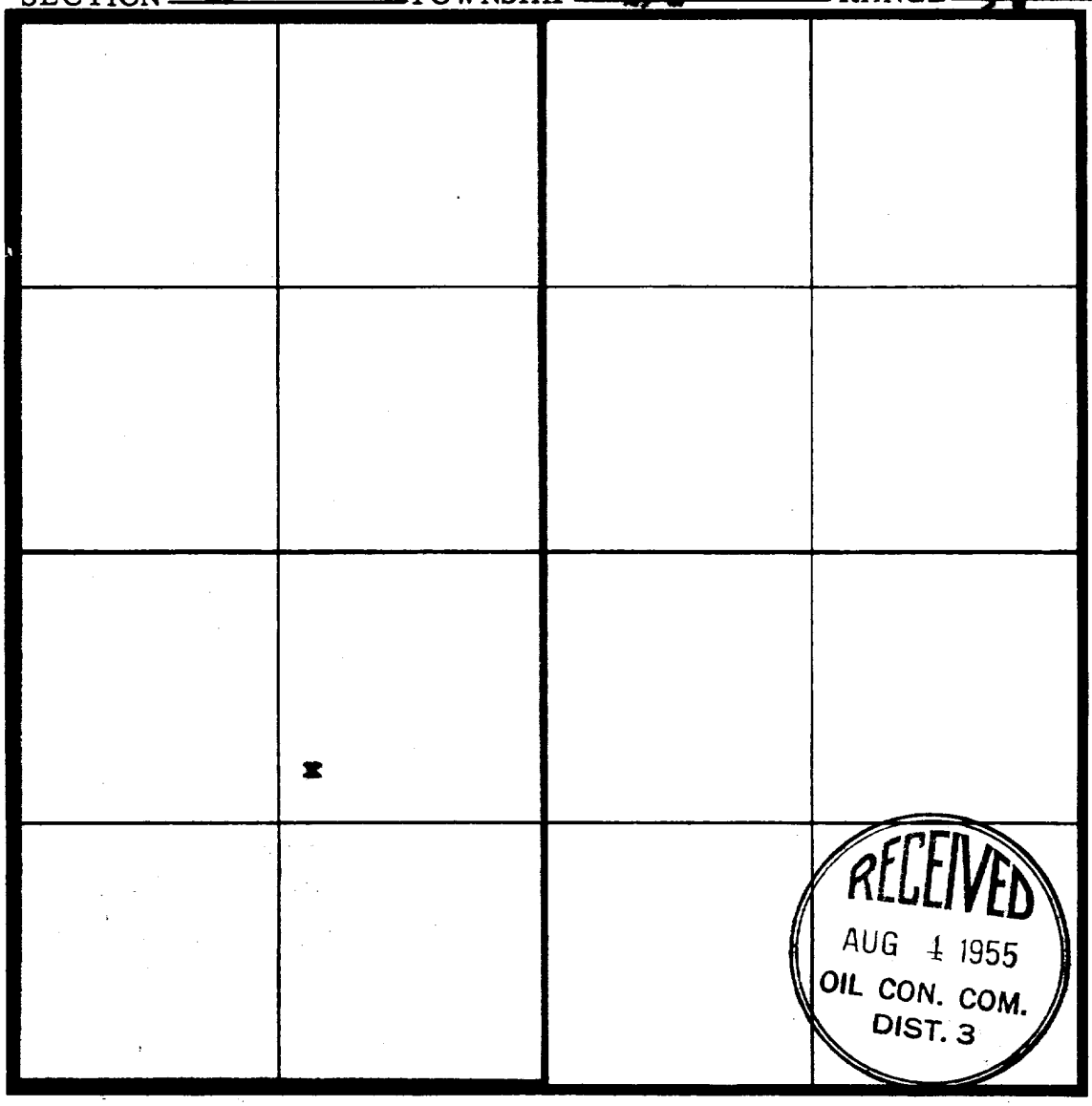
Operator Lease Well No.

Name of Producing Formation Mesa Verde Pool Blanco

No. Acres Dedicated to the Well 320

Indicate land status and show ownership.

SECTION 19 TOWNSHIP 29 N RANGE 5 W



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I hereby certify that the information given above is true and complete to the best of my knowledge.

Name R. A. Muga

Position District Engineer

Representing Pacific Northwest Pipeline Corp.

Address 413-1/2 West Main Street
Farmington, New Mexico

(over)

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1 - Gerald Hollis

NEW MEXICO OIL CONSERVATION COMMISSION
INITIAL POTENTIAL TEST-DATA SHEET

FORM C-122-B

This form must be used for reporting all pitot tube tests made in the State. It is particularly important that it be used for reporting Initial Potential Tests in the San Juan Basin as prescribed by Order No. R-333 and by the New Mexico Oil Conservation Commission Manual of Tables and Procedure for Initial Potential (Pitot Tube) Tests.

POOL Blanco Mesaverde FORMATION Mesaverde

COUNTY Rio Arriba DATE WELL TESTED 9/14/55

Operator PACIFIC NORTHWEST Lease 29-5 Well No. 11-19

1/4 Section SW Unit Letter K Sec. 19 Twp. 29N Rge. 5W

Casing: 5-1/2 "O.D. Set At 5974 Tubing 2" "WT. ____ Set At 5945

Pay Zone: From 5458 to 5963 Gas Gravity: Meas. ____ Est. .650

Tested Through: Casing X Tubing ____

Test Nipple 3.826 I.D. Type of Gauge Used X (Spring) ____ (Monometer)

OBSERVED DATA

Shut In Pressure: Casing 1062 Tubing: 940 S. I. Period 7 Days

Time Well Opened: 10:35 A.M. Time Well Gauged: 1:35 P.M.

Impact Pressure: 15#

Volume (Table I) . . . . 9662.4 (a)

Multiplier for Pipe or Casing (Table II) . . . . .915 (b)

Multiplier for Flowing Temp. (Table III) . . 38° . . . . . . 1.0218 (c)

Multiplier for SP. Gravity (Table IV) . . . . 1.000 (d)

Elev. 6690'

Ave. Barometer Pressure at Wellhead (Table V) 11.5

Multiplier for Barometric Pressure (Table VI) . . . . . . .983 (e)

Initial Potential, Mcf/24 Hrs. (a) x (b) x (c) x (d) x (e) = 8880

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DIST. 3

Witnessed by: ____ Tested by: G. R. Wagner
Company: ____ Company PACIFIC NORTHWEST
Title: ____ Title: Well Head Gas Tester

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AZTEC DISTRICT OFFICE
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NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
(Revised 7/1/52)

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well X
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Farmington, New Mexico (Place) 3-28-56 (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Pacific Northwest Pipeline Corp (Company or Operator) San Juan 29-5 (Lease), Well No. 11-19, in NE ¼ SW ¼,

X (Unit Letter), Sec. 19, T. 29N, R. 5 W, NMPM., Blanco Mesa Verde Pool

Rio Arriba County. Date Spudded 8-10-55, Date Completed 9-7-55

Please indicate location:

D	C	B	A
E	F	G	H
L	K X	J	I
M	N	O	P

1750 F.S.L. 1550 F.W.L.

Elevation 6690 Total Depth 5979, P.B.

Top oil/gas pay 5458 Name of Prod. Form. Mesa Verde

Casing Perforations: 5458-5942; at selected intervals or

Depth to Casing shoe of Prod. String

Natural Prod. Test BOPD

based on bbls. Oil in Hrs. Mins.

Test after acid or shot BOPD

Based on bbls. Oil in Hrs. Mins.

Gas Well Potential 8,680 mcf/d

Size choke in inches

Date first oil run to tanks or gas to Transmission system: w/o pipeline

Transporter taking Oil or Gas: Pacific Northwest Pipeline Corp.

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Casing and Cementing Record

Size	Feet	Sax
10 3/4	215.61	150
7 5/8	3624	145
5 1/2	5974	125
2	5945	

Remarks: Sand free. Mesa Verde formation.

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved 4-4, 1956

Pacific Northwest Pipeline Corp.
(Company or Operator)

Original signed by G. H. Peppin
By: (Signature)

Title District Proration Engineer

Send Communications regarding well to:

Name Pacific Northwest Pipeline Corp.

Address 413½ West Main Farmington, New Mexico

OIL CONSERVATION COMMISSION

By: A. R. Kendrick

Title PETROLEUM ENGINEER DIST. NO. 3

OIL CONSERVATION COMMISSION
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NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Pacific Northwest Pipeline Corp. Lease San Juan 29-5

Well No. 11-19 Unit Letter K S 19 T 29N R 5 W Pool Blanco Mesa Verde

County Rio Arriba Kind of Lease (State, Fed. or Patented) _____

If well produces oil or condensate, give location of tanks: Unit K S 19 T 29 R 5

Authorized Transporter of Oil or Condensate Continental Oil Co.

Address Box 548 Farmington, New Mexico
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas Pacific Northwest Pipeline Corp.

Address 413½ West Main Farmington, New Mexico
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Waiting on pipeline

Reasons for Filing: (Please check proper box) New Well (X)

Change in Transporter of (Check One): Oil ( ) Dry Gas ( ) C'head ( ) Condensate ( )

Change in Ownership ( ) Other ( )

Remarks: (Give explanation below)

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APR 4 1956
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DIST. 3

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 3 day of February 19 56

By Original signed by G. H. Peppin

Title District Proration Engineer

Company Pacific Northwest Pipeline Corp.

Address 413½ West Main Street

Farmington, New Mexico

Approved 4-4 1956

OIL CONSERVATION COMMISSION

By A. R. Kendrick

Title PETROLEUM ENGINEER DIST. NO. 3

OIL CONSERVATION COMMISSION

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Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION

GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

Pool: Blanco Mesaverde Formation: Mesa Verde County: Rio Arriba

Purchasing Pipeline: Pacific Northwest Pipeline Corporation Date Test Filed: January 3, 1957

Operator: Pacific Northwest Pipeline Lease: San Juan Unit 29-5 Well No.: 11-19

Unit: K Sec.: 19 Twp.: 29 Rge.: 5 Pay Zone: From: 5458 To: 5942

Casing: OD: 5 1/2 WT.: Set At: 5979 Tubing: OD: 2" WT.: 4.7 T. Perf.: 5942

Produced Through: Casing: Tubing: X Gas Gravity: Measured: Estimated: .650

Date of Flow Test: From: 11-11-56 To: 11-19-56* Date S.I.P. Measured: September 14, 1955

Meter Run Size: Orifice Size: Type Chart: Type Taps:

OBSERVED DATA

Flowing casing pressure (Dwt)		psig + 12 =		psia	(a)
Flowing tubing pressure (Dwt)		psig + 12 =		psia	(b)
Flowing meter pressure (Dwt)		psig + 12 =		psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:					
Normal chart reading		psig + 12 =		psia	(d)
Square root chart reading ( ) ^{2} x spring constant		=		psia	(d)
Meter error (c) - (d) or (d) - (c)		± =		psi	(e)
Friction loss, Flowing column to meter:					
(b) - (c) Flow through tubing: (a) - (c) Flow through casing		=		psi	(f)
Seven day average static meter pressure (from meter chart):					
Normal chart average reading		psig + 12 =		psia	(g)
Square root chart average reading ( ) ^{2} x sp. const.		=	491	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		=		psia	(h)
P_t = (h) + (f)		=	491	psia	(i)
Wellhead casing shut-in pressure (Dwt)	1062	psig + 12 =	1074	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	940	psig + 12 =	952	psia	(k)
P_c = (j) or (k) whichever well flowed through		=	952	psia	(l)
Flowing Temp. (Meter Run)	71 °F + 460	=	531	°Abs	(m)
P_d = ½ P_c = ½ (l)		=	476	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{1049} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \_\_\_ = \_\_\_ \right)^{*} = \_\_\_ \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ 1049 \left[\frac{P_c^2 - P_d^2 = 679728}{P_c^2 - P_w^2 = 641390} \right]^n (1.0598)^{.75} = 1.0445 = 1096 \text{ MCF/da.}$$

SUMMARY

P_c =	952	psia
Q =	1049	Mcf/day
P_w =	~~514~~ 515	psia
P_d =	476	psia
D =	1096	Mcf/day

Company: Pacific Northwest Pipeline Corp.
By: Donald G. Adams
Title: Well Test Engineer
Witnessed by:
Company:

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DIST. 3

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$(F_cQ)^2 (1-e^{-S}) / R^2$	P_t^2 (Column i)	P_c^2	P_w
3862	.245	97279	23833	241081	264914	~~514~~ 515

3-N.M.O.C.C.-Aztec
2-Phillips Petroleum (Wayne Smith)
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DK

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Pacific Northwest Pipeline Corp. 405½ West Broadway Farmington, New Mexico Lease San Juan 29-5

Well No. 11-19 Unit Letter K S 19 T 29 R 5 Pool Blanco Mesa Verde

County Rio Arriba Kind of Lease (State, Fed. or Patented) _____

If well produces oil or condensate, give location of tanks: Unit K S 19 T 29 R 5

Authorized Transporter of Oil or Condensate El Paso Natural Gas Products Company

Address Box 997, Farmington, New Mexico
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas Pacific Northwest Pipeline Corp. 405½ West Broadway
Address Farmington, New Mexico
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

_____

_____

Reasons for Filing: (Please check proper box) New Well ( )

Change in Transporter of (Check One): Oil ( ) Dry Gas ( ) C'head ( ) Condensate (x)

Change in Ownership ( ) Other ( )

Remarks: (Give explanation below)

Emuled by: El Paso Natural Gas Company

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SEP 13 1957
OIL CON. COM.
DIST. 3

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 11 day of September 19 57

By Original signed by G. H. Peppin

Approved SEP 13 1957 19

Title District Proration Engineer

OIL CONSERVATION COMMISSION

Company Pacific Northwest Pipeline Corp. 405½ West Broadway Farmington, New Mexico

By Original Signed Emery C. Arnold

Address

Title Supervisor Dist. # 3

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