

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 MESAVERDE Formation MESAVERDE County SAN JUAN
Purchasing Pipeline PACIFIC NORTHWEST PIPELINE CORP. Date Test Filed JAN 17 1957
Operator Pacific Northwest Pipeline Lease Artes Well No. 2-8
Unit 2 Sec. 8 Twp. 32 Rge. 10 Pay Zone: From 4312 To 5354
Casing: OD 5 WT. 11.5 Set At 5397 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 5336
Produced Through: Casing Tubing 2 Gas Gravity: Measured Estimated .65
Date of Flow Test: From 12-27-56 To 1-3-57 * Date S.I.P. Measured 1-5-56
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. = 503 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = psia (h)
P_t = (h) + (f) = 503 psia (i)
Wellhead casing shut-in pressure (Dwt) 1010 psig + 12 = 1022 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1011 psig + 12 = 1023 psia (k)
P_c = (j) or (k) whichever well flowed through = 1023 psia (l)
Flowing Temp. (Meter Run) 63 °F + 460 = 503 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 512 psia (n)

FLOW RATE CALCULATION

Q = 346 X $\left(\frac{\sqrt{(c)} = \text{ } = \text{ }}{\sqrt{(d)} = \text{ } = \text{ }} \right)^* = \text{ }$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 346 $\left[\frac{(P_c^2 - P_d^2) = \text{ }}{(P_c^2 - P_w^2) = \text{ }} \right]^n \frac{(.9925)^{.75}}{.9935} = \text{ }$ MCF/da.

SUMMARY

P_c = 1023 psia
Q = 346 Mcf/day
P_w = 503 psia
P_d = 512 psia
D = 346 Mcf/day

Company Pacific Northwest Pipeline Corp.
By
Title
Witnessed by
Company

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>346</u>	<u> </u>	<u>10.705</u>	<u> </u>	<u>25309</u>	<u>25396</u>	<u>503</u>

3-J.L.O.G.S. -
1-L. G. Tully -
2-Ryan Smith - (Phillips)
1-File



1944-1945

1946-1947

1948-1949

1950-1951

1952

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1954-1955

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2008-2009

2010-2011

2012-2013

2014-2015

4 - N.M.O.C.C.
1 - L. G. Truby
1 - File

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

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

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well
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)

August 27, 1956
(Date)

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

Pacific Northwest Pipeline Corp. Astec 32-10, Well No. 2-8, in SW $\frac{1}{4}$ SW $\frac{1}{4}$.
(Company or Operator) (Lease)

M San Juan Sec. 8 T. 32N R. 10W, NMPM, Blanco Mesaverde Pool
Unit Letter

San Juan County. Date Spudded 5-24-56, Date Completed 7-5-56

Please indicate location:

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

Elevation 6176.2 Total Depth 5397, P.B.

Top oil/gas pay 4812 Name of Prod. Form Mesaverde

Casing Perforations 4812-4912; 4938-5186; 5282-5354 or

Depth to Casing shoe of Prod. String 5397

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 6,177 MCF GAOF

Size choke in inches 3/4"

Date first oil run to tanks or gas to Transmission system:

Transporter taking Oil or Gas: Pacific Northwest Pipeline Corp.

1040 FSL, 990 FWL

Casing and Cementing Record
Size Feet Sax

9 5/8	203.82	125
7	31.50	200
5	5397	200
2	5339	

Remarks: Frac 3 intervals w/52,500; 51,400; 51,000 gals water only.

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

Approved SEP 27 1956, 19

OIL CONSERVATION COMMISSION

By: E. G. Truby
Title Oil and Gas Inspector Dist. #3.

Pacific Northwest Pipeline Corp.

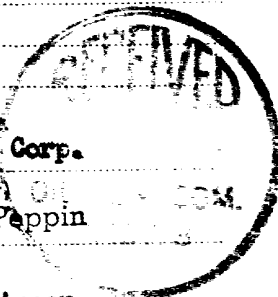
(Company or Operator)

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

Title District Production Engineer
Send Communications regarding well to:

Name Pacific Northwest Pipeline Corp.

Address 405 1/2 West Broadway, Farmington, N. Mex.



Page 10 of 10

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100-4152

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— David C. Reardon

10. *Staphylococcus aureus*

Transporter

411