

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 Formation Mesaverde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corp. Date Test Filed May 23, 1956
Operator Pacific Northwest Pipe- Lease 29-6 Well No. 15-2
line Corporation Unit K Sec. 2 Twp. 29N Rge. 6W Pay Zone: From 5213 To 5730
Casing: OD 7" WT. 23 Set At 5213 Tubing: OD 2" WT. 4.7 T. Perf. 5641
Produced Through: Casing 5-9 Tubing 5-17-56 Gas Gravity: Measured 6-27-55 Estimated .663
Date of Flow Test: From 4 To 2 Date S.I.P. Measured Normal Plunge
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): 565
Normal chart average reading _____ psig + 12 = 577 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 577 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 577 psia (h)
P_t = (h) + (f) _____ = 1086 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 1091 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 1103 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1103 psia (l)
Flowing Temp. (Meter Run) 87 °F + 460 _____ = 547 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 552 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\left(\frac{V(c)}{V(d)} \right)^{.75} \times \left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{.25} \times 1718}{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{.25}} \times \left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{.25} = \text{MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75} \times \frac{1.111}{1.082} = 1,859 \text{ MCF/day}$$

SUMMARY

P_c = 1103 psia
Q = 1718 Mcf/day
P_w = 629 psia
P_d = 552 psia
D = 1859 Mcf/day

PACIFIC NORTHWEST PIPELINE CORP.

Company _____
By Measurement Eng. Richardson III
Title _____
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
3740	.238	260.92	62.099	332.929	395.028	628.5

3 - N.M.O.C.C.
1 - W. R. Johnston
1 - L. G. Truby
1 - R. C. Frederick
1 - Oliver Fowler
2 - Files



OIL CONSERVATION COMMISSION	
AZTEC DISTRICT OFFICE	
No. Copies Received <u>3</u>	
DISTRIBUTION	
	NO. FURNISHED
Operator	
Santa Fe	<u>1</u>
Proration Office	
State Land Office	<u>1</u>
U. S. G. S.	<u>1</u>
Transporter	
File	☒

