

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 El Paso Natural Gas Co. Date Test Filed March 3, 1956
Operator Pacific Northwest Pipeline Corp. Unit 31-6 Well No. 7-1
Unit G Sec. 1 Twp. 30 N Rge. 7 W Pay Zone: From 5353 To 5825
Casing: OD 7" WT. 20# Set At 5080 Tubing: OD 2" WT. 4.7# T. Perf. 5767 *
Produced Through: Casing Tubing X Gas Gravity: Measured Estimated .645
Date of Flow Test: From 2/17/56 To 2/22/56 * Date S.I.P. Measured 7/19/55
Meter Run Size 4" Orifice Size 1" Type Chart SR Type Taps Flange

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 (7.8)² x sp. const. 10 = 608 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 608 psia (h)
P_t = (h) + (f) = 608 psia (i)
Wellhead casing shut-in pressure (Dwt) 1080 psig + 12 = 1092 psia (j)
Wellhead tubing shut-in pressure (Dwt) 914 psig + 12 = 926 psia (k)
P_c = (j) or (k) whichever well flowed through (13 days) = 926 psia (l)
Flowing Temp. (Meter Run) 45 °F + 460 = 505 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 463 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \cdot 233 \cdot \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1/2} = 1.3216^{.75} = 1.2426 \cdot 289.53 \text{ MCF/da.}$$

SUMMARY

P_c = 926 psia
Q = 233 Mcf/day
P_w = 609 psia
P_d = 463 psia
D = 289.53 Mcf/day

Company Pacific Northwest Pipeline Corp.
By W. P. Buchanan
Title Gas Meas. Engr.
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
3720	.237	4.799	1.137		369.644	370.801	608.9

* Includes est. 30' reduction for perforations.



OIL CONSERVATION COMMISSION	
APPROVED FOR SIGNATURE	
OF COMMISSIONER OF LANDS	
AND MINES	
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RANGE OF _____	
SECTION _____	
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