

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 Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed January 26, 1956

Operator Pacific Northwest Pipeline Corporation Lease 32-8 Well No. 10-24
Unit K Sec. 24 Twp. 31N Rge. 8W Pay Zone: From 5298-5400 To 5520-5880
Casing: OD 7" WT. 20# Set At 5298 Tubing: OD 2" WT. 4.7 T. Perf. 5654*
Produced Through: Casing Tubing X Gas Gravity: Measured Estimated .575
Date of Flow Test: From 1-1-56 To 1-9-56 * Date S.I.P. Measured 9-13-55
Meter Run Size 4" Orifice Size .750 Type Chart S.R. 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 (7.52)² x sp. const. 10 = 565 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 565 psia (h)
P_t = (h) + (f) = 565 psia (i)
Wellhead casing shut-in pressure (Dwt) 1097 psig + 12 = 1109 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1101 psig + 12 = 1113 psia (k)
P_c = (j) or (k) whichever well flowed through 1113 psia (l)
Flowing Temp. (Meter Run) 50 °F + 460 33 days = 510 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) 556.5 psia (n)

Q = X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{ }}{\text{ }} = \text{ } \right) = \text{ }$ MCF/da
(integrated)

DELIVERABILITY CALCULATION
D = Q 158 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.75} = \frac{929,077}{919,544}^{.75} = 1.0104 = 1.0078$ 159.8 MCF/da.

SUMMARY
P_c = 1113 psia
Q = 158 Mcf/day
P_w = 565 psia
P_d = 556.5 psia
D = 159.8 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORP.
By M. P. Dickman
Title Gas Measurement Engineer
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 (Column i)	P _t ² + R ²	P _w
<u>3251</u>	<u>.211</u>	<u>2,207</u>	<u>.4657</u>	<u>319.225</u>	<u>319.691</u>	<u>565</u>

*Includes est. 30' reduction for perforations.

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