

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 February 6, 1956

Operator Pacific Northwest Pipeline Corporation Lease 32-8 Well No. 6-35
Unit H Sec. 35 Twp. 32N Rge. 8W Pay Zone: From 5508 To 6060
Casing: OD 7" WT. 20# Set At 5460 Tubing: OD 1" WT. 1.7 T. Perf. 5954*
Produced Through: Casing X Tubing _____ Gas Gravity: Measured _____ Estimated .650
Date of Flow Test: From 1-24-56 To 2-1-56 * Date S.I.P. Measured 12-30-53
Meter Run Size 4" Orifice Size 3/8" 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 (7.11) ² x sp. const. 10 = 505 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 505 psia (h)
P_t = (h) + (f) = 505 psia (i)
Wellhead casing shut-in pressure (Dwt) 986 psig + 12 = 998 psia (j)
Wellhead tubing shut-in pressure (Dwt) 984 psig + 12 = 996 psia (k)
P_c = (j) or (k) whichever well flowed through = 998 psia (l)
Flowing Temp. (Meter Run) 47 °F + 460 48 days = 507 °Abs (m)
P_d = ½ P_c = ½ (l) = 499 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\left(\frac{V(c)}{V(d)} \right)^{\frac{1}{n}}}{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{\frac{1}{n}}} \times \left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{\frac{1}{n}} = \text{_____ MCF/day}$$

(Integrated)

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{\frac{1}{n}} = \frac{1.008 \cdot 75}{1.006} = \underline{22.13} \text{ MCF/day}$$

SUMMARY

P_c = 998 psia
Q = 22 Mcf/day
P_w = 505 psia
P_d = 499 psia
D = 22.13 Mcf/day

Company Pacific Northwest Pipeline Corp.
By M. B. [Signature]
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>P_w = P_t</u>							

*Includes est. 30' reduction for perforations.

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