

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 Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corp. Date Test Filed May 23, 1956
Operator Pacific Northwest Pipeline Corporation Lease 29-5 Well No. 7-7
Unit A Sec. 7 Twp. 29N Rge. 9W Pay Zone: From 5306 To 5864
Casing: OD 7" WT. 23 Set At 5326 Tubing: OD 2" WT. 4.7 T. Perf. 5806
Produced Through: Casing X Tubing X Gas Gravity: Measured 7 Estimated .644
Date of Flow Test: From 5-9 To 5-17-56 Date S.I.P. Measured 6-28-55
Meter Run Size 4" Orifice Size 1-1/4" Type Chart Normal 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart) 630 psig + 12 = 642 psia (g)
Normal chart average reading _____ = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (h)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (i)
P_t = (h) + (f) _____ = _____ psia (j)
Wellhead casing shut-in pressure (Dwt) 1180 psig + 12 = 1192 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1184 psig + 12 = 1196 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 73 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

FLOW RATE CALCULATION

$$Q = \frac{\text{(Integrated)}}{\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1260}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75} \frac{1.146}{1.108}} = \frac{1260}{\left[\frac{967,872}{844,872} \right]^{.75} \frac{1.146}{1.108}} = \text{1256 MCF/da.}$$

SUMMARY

P_c = 1196 psia
Q = 1256 Mcf/day
P_w = 5806 psia
P_d = 5806 psia
D = 1256 Mcf/day

Company PACIFIC NORTHWEST PIPELINE CORP.
By W. B. Richardson (W.B. Richardson III)
Title Production Manager
Witnessed by _____
Company _____

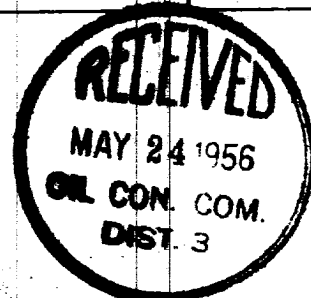
- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(F _c Q) ²	(F _c Q) ² R ²	(1-e ⁻⁸)	P _t ² (Column 1)	P _t ² + R ²	P _w
3739	.838	140.35	33.403		412.164	445.567	667.5

- 3 - H.E.V.C.V.
- 1 - W. B. Johnston
- 1 - L. G. Tryby
- 1 - R. G. Frederick
- 1 - Oliver Foster
- 2 - File

OK



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