

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 Wildcat Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 6-28-56

Operator Pacific Northwest Pipeline Corporation Lease 29-4 Well No. #2
Unit K Sec. 35 Twp. 29N Rge. 4W Pay Zone: From 3850 To 3900

* Casing: OD 7" WT. 20 Set At 4100 Tubing: OD 2" WT. 4.7 T. Perf. 3906
Produced Through: Casing Tubing X Gas Gravity: Measured Estimated .710
Date of Flow Test: From 6-8-56 To 6-16-56 * Date S.I.P. Measured 10-10-53 (Est.)
Meter Run Size 4" Orifice Size 1-3/4 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 (6.87) ² x sp. const. 10 = 472 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 472 psia (h)
P_t = (h) + (f) = 472 psia (i)
Wellhead casing shut-in pressure (Dwt) psig + 12 = 1104 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) 71 °F + 460 = 531 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 552 psia (n)

Q = X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{ }}{\text{ }} = \text{ } \right)^{.85}$ = MCF/da
(Integrated)

DELIVERABILITY CALCULATION
D = Q 881 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n$.85 $\frac{.9292}{.9395}$ = 828 MCF/da.

SUMMARY
P_c = 1103 psia
Q = 881 Mcf/day
P_w = 485 psia
P_d = 552 psia
D = 828 Mcf/day
Company Pacific Northwest Pipeline Corp.
By W. B. Richardson
Title 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}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>2772</u>	<u>.183</u>	<u>68.608</u>	<u>12.555</u>	<u>222.72</u>	<u>339</u>	<u>485.1</u>

*TD at 6449, Packer at 4100

OK





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