

Initial Deliverability
Test

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 7-21-58
Operator PACIFIC NORTHWEST PIPELINE Lease Blanco 31-8 Well No. 4-26
Unit M Sec. 26 Twp. 31N Rge. 8W Pay Zone: From 5034' To 9534'
Casing: OD 5 1/2 WT. Set At 5600' Tubing: OD 1-1/4 WT. 2.3 T. Perf. 9527'
Produced Through: Casing Tubing X X Gas Gravity: Measured .623 Estimated
Date of Flow Test: From 6-15-58 To 6-22-58 * Date S.I.P. Measured 4-7-58
Meter Run Size Orifice Size 1.250 Type Chart Type Taps

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
Seven day average static meter pressure (from meter chart):
Normal chart average reading 7.35 psig + 12 = 940 psia (g)
Square root chart average reading (7.35)² x sp. const. 10.00 = 940 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) = 940 psia (h)
P_t = (h) + (f) 1041 psig + 12 = 1053 psia (i)
Wellhead casing shut-in pressure (Dwt) 966 psig + 12 = 978 psia (j)
Wellhead tubing shut-in pressure (Dwt) psig + 12 = 1053 psia (k)
P_c = (j) or (k) whichever well flowed through 70 °F + 460 = 538 °Abs (l)
Flowing Temp. (Meter Run) = 527 526.5 psia (m)
P_d = 1/2 P_c = 1/2 (l) = psia (n)

$$Q = \frac{774}{(\text{integrated})} \times \left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \text{ } \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{774}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{831,607}{736,594} \right]^n} \frac{1.129}{1.095} = 848 \text{ MCF/da.}$$

SUMMARY

P_c = 1053 psia
Q = 774 Mcf/day
P_w = 610 psia
P_d = 526.5 527 psia
D = 848 Mcf/day

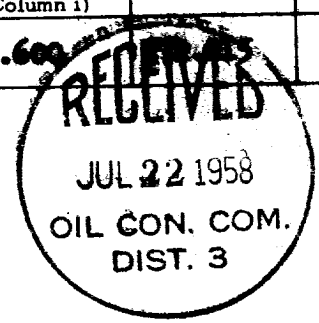
PACIFIC NORTHWEST PIPELINE CORPORATION

Company
By Original signed by G. H. Peppin
Title District Production 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
3443	0.222	363.131	80.615	291.600	372.215	610



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