

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 Mesaverde Formation Mesaverde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corporation Date Test Filed March 13, 1957
Operator El Paso Natural Gas Company Lease San Juan Unit 28-6 Well No. 4-26
Unit L Sec. 26 Twp. 23N Rge. 6W Pay Zone: From 5026 To 5722
Casing: OD 7" WT. Set At 5026 Tubing: OD 2" WT. T. Perf. 5693
Produced Through: Casing Tubing 2" Gas Gravity: Measured .650 Estimated
Date of Flow Test: From 2-19-57 To 2-27-57 Date S.I.P. Measured 10-14-53
Meter Run Size Orifice Size 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:
(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 565 psig + 12 = 577 psia (g)
Square root chart average reading () ² x sp. const. = psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 577 psia (h)
P_t = (h) + (f) = 577 psia (i)
Wellhead casing shut-in pressure (Dwt) 1092 psig + 12 = 1104 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1092 psig + 12 = 1104 psia (k)
P_c = (j) or (k) whichever well flowed through = 1104 psia (l)
Flowing Temp. (Meter Run) 56°F + 460 = 516 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 552 psia (n)

FLOW RATE CALCULATION

Q = 718 X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{718}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 718 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{718}$ MCF/day
 $\frac{(1.0142)^{.75}}{1.033}$

SUMMARY

P_c = 1104 psia Company Pacific Northwest Pipeline Corporation
Q = 718 Mcf/day By Original signed by G. H. Peppin
P_w = 586 psia Title Market Production Engineer
P_d = 552 psia Witnessed by
D = 718 Mcf/day 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
3700	0.236	45.56	10.75	332.93	343.68	586

3-N.M.O.C.C. - Antec
1-El Paso Natural (Galloway)
1-L. G. Trub J
2-File



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