

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)

72-298

Pool Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 28-7 Well No. 85
Unit A Sec. 6 Twp. 27 Rge. 7 Pay Zone: From 4810 To 5114
Casing: OD 5-1/2 WT. 15.5 Set At 5117 Tubing: OD 2" WT. 4.7 T. Perf. 5074
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 735 Estimated _____
Date of Flow Test: From 10/15/58 To 10/22/58 Date S.I.P. Measured 6/19/58 (31 days)
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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.15) ² x sp. const. 10 = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 1049 psig + 12 = 1061 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1060 psig + 12 = 1072 psia (k)
P_c = (i) or (k) whichever well flowed through _____ = 1072 psia (l)
Flowing Temp. (Meter Run) 88 °F + 460 _____ = 548 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 536 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{V(c)}{V(d)} \times \left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{1/2} = \frac{132}{1} \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 132 \left[\frac{861988}{888063} \right]^{.9705/.9778} = 129 \text{ MCF/day}$$

SUMMARY

P_c = 1072 psia
Q = 132 Mcf/day
P_w = 511 psia
P_d = 536 psia
D = 129 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
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
			Friction Negligible			

D at 500 = 132

