

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)

72-238

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. 84
Unit G Sec. 5 Twp. 27 Rge. 7 Pay Zone: From 5408 To 5554
Casing: OD 5-1/2 WT. 15-1/2 Set At 5596 Tubing: OD 2 WT. 4.7 T. Perf. 5511
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 731 Estimated _____
Date of Flow Test: From 10/15/58 To 10/22/58 * Date S.I.P. Measured 6/19/58 (16 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: _____ = _____ 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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (6.80) ² x sp. const. 10 = 462 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 462 psia (h)
P_i = (h) + (f) = 462 psia (i)
Wellhead casing shut-in pressure (Dwt) 1006 psig + 12 = 1018 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1006 psig + 12 = 1018 psia (k)
P_c = (j) or (k) whichever well flowed through = 1018 psia (l)
Flowing Temp. (Meter Run) 69 °F + 460 = 529 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 509 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{113} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 113 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{777243}{822880}^n \frac{.9445}{.9581} = \text{108} \text{ MCF/da.}$

SUMMARY

P _c =	<u>1018</u>	psia	Company	<u>El Paso Natural Gas</u>
Q =	<u>113</u>	Mcf/day	By	<u>Original Signed</u>
P _w =	<u>462</u>	psia	Title	<u>Harold L. Kendrick</u>
P _d =	<u>509</u>	psia	Witnessed by	_____
D =	<u>108</u>	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
			Friction Negligible			

D at 500 = 108



