

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 Mesaverde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease Rincon Well No. 83
Unit B Sec. 23 Twp. 27 Rge. 6 Pay Zone: From 4946 To 5616
Casing: OD 5½ WT. 15.5 Set At 5755 Tubing: OD 2 WT. 4.7 T. Perf. 5658
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .705 Estimated _____
Date of Flow Test: From 11/8/56 To 11/16/56 * Date S.I.P. Measured 5/21/56
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 (7.50) ² x sp. const. 10 _____ = 563 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 563 psia (h)
P_t = (h) + (f) _____ = 563 psia (i)
Wellhead casing shut-in pressure (Dwt) 1050 psig + 12 = 1062 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1013 psig + 12 = 1025 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1025 psia (l)
Flowing Temp. (Meter Run) 64 °F + 460 _____ = 524 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 513 psia (n)

FLOW RATE CALCULATION

$$Q = \text{_____} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{872} \text{ MCF/da}$$

(integrated)

DELIVERABILITY CALCULATION

$$D = Q \text{ 872 } \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{936} \text{ MCF/da,}$$

$\frac{1.0987}{1.0732}$

SUMMARY

P_c = 1025 psia
Q = 872 Mcf/day
P_w = 578 psia
P_d = 513 psia
D = 936 Mcf/day

Company El Paso Natural Gas Company
By L.D. Galloway
Title Sr. Gas Engineer
Witnessed by _____
Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(FcQ) ²	(FcQ) ² (1-e ^{-S})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column 4)		
3989	.252	67.224	16,940	316,969	333,909	578

D @ 500 = 920

