

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 South Blanco Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 25-7 Unit Well No. 66
Unit F Sec. 8 Twp. 27 Rge. 7 Pay Zone: From 3348 To 3366
Casing: OD 5-1/2 WT. 25.5 Set At 3430 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 3351
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .630 Estimated _____
Date of Flow Test: From 10/31 To 11/9/57 * Date S.I.P. Measured 1/9/57
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 (7.85)² x sp. const. .5 = 308 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 308 psia (h)
P_t = (h) + (f) = 308 psia (i)
Wellhead casing shut-in pressure (Dwt) 991 psig + 12 = 1003 psia (j)
Wellhead tubing shut-in pressure (Dwt) 991 psig + 12 = 1003 psia (k)
P_c = (j) or (k) whichever well flowed through = 1003 psia (l)
Flowing Temp. (Meter Run) 51 °F + 460 = 511 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 502 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{364} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ 364 } \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{754,005}{899,740} \cdot \frac{.8380}{.8607} = \text{313} \text{ MCF/da.}$$

SUMMARY

P_c = 1003 psia
Q = 364 Mcf/day
P_w = 326 psia
P_d = 502 psia
D = 313 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Lewis D. Galloway
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 (Column 2) - P _w ²	P _w ²
2111	142	80.317	11,405	94,864	106,269	326

$$D \text{ at } 250 = 373$$

OK

