

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 Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 29-7 Unit Well No. 51
Unit L Sec. 21 Twp. 29 Rge. 7 Pay Zone: From 5340 To 5904
Casing: OD 5 1/2 WT. 15.5 Set At 5990 Tubing: OD 2 WT. 4.7 T. Perf. 5838
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .725 Estimated _____
Date of Flow Test: From 6/30/57 To 7/8/57 * Date S.I.P. Measured 9/7/56 (12 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 (7.35)² x sp. const. 10 = 540 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 540 psia (h)
P_t = (h) + (f) = 540 psia (i)
Wellhead casing shut-in pressure (Dwt) 1045 psig + 12 = 1057 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1039 psig + 12 = 1051 psia (k)
P_c = (j) or (k) whichever well flowed through = 1051 psia (l)
Flowing Temp. (Meter Run) 80 °F + 460 = 540 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 526 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right)^* = \text{2066} \text{ MCF/da}$
(integrated) $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 2066 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{827,925}{713,008} \times \frac{1.1611}{1.1186} = \text{2311} \text{ MCF/da.}$

SUMMARY

P_c = 1051 psia Company El Paso Natural Gas
Q = 2066 Mcf/day By _____
P_w = 626 psia Title _____
P_d = 526 psia Witnessed by Lewis D. Galloway
D = 2311 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
4233	.265	377.331	99.993	291,600	391,593	626

D at 500 = 2122



