

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 Elmoco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 27-5 Unit Well No. 8
Unit L Sec. 32 Twp. 27 Rge. 5 Pay Zone: From 4870 To 5525
Casing: OD 7 WT. 23 Set At 4800 Tubing: OD 2 WT. 4.7 T. Perf. 5441
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .675 Estimated _____
Date of Flow Test: From 11/30 To 12/8/56 * Date S.I.P. Measured 12/27/56 (10 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 (7.50) 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) 1103 psig + 12 = 1115 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1100 psig + 12 = 1112 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1112 psia (l)
Flowing Temp. (Meter Run) 64 °F + 460 _____ = 524 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 556 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right)^* = \text{892} \text{ MCF/da}$
(integrated) $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 892 $\left[\frac{(P_c^2 - P_d^2) = \text{927,408}}{(P_c^2 - P_w^2) = \text{903,115}} \right]^n \frac{1.0268}{1.0200} = \text{910} \text{ MCF/da.}$

SUMMARY

P_c = 1112 psia
Q = 892 Mcf/day
P_w = 577 psia
P_d = 556 psia
D = 910 Mcf/day

Company El Paso Natural Gas Company
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 + R ²	P _w
3673	.234	70.348	16,460	316,969	333,429	577

D @ 500 = 932

OK



X