

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 Wildcat 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 Well No. 7
Unit B Sec. NE2 Twp. 27N Rge. 5W Pay Zone: From 5322 To 5930
Casing: OD 7 WT. 23 Set At 5270 Tubing: OD 2 WT. 4.7 T. Perf. 5847
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 6/22 To 6/30 * Date S.I.P. Measured 1/12/55
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Rt. Type Taps Flange

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 (7.45) ² x sp. const. 10 = 555 psia (g)
Corrected seven day avge. meter press. (pf) (g) + (e) = 555 psia (h)
P_t = (h) + (f) = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 1035 psig + 12 = 1047 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1033 psig + 12 = 1045 psia (k)
P_c = (j) or (k) whichever well flowed through = 1045 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 = 528 °Abs (m)
P_d = ½ P_c = ½ (l) = 523 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{\sqrt{(d)}}{\sqrt{(d)}}} \right)^* = \underline{788} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 788 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{825} \text{ MCF/da.}$
 $\frac{818,496}{770,387}$ $\frac{1.0624}{1.0464}$

SUMMARY

P_c = 1045 psia
Q = 788 Mcf/day
P_w = 567 psia
P_d = 523 psia
D = 824 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})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
<u>3917</u>	<u>.248</u>	<u>54.893</u>	<u>13.613</u>	<u>308,025</u>	<u>321,638</u>	<u>567</u>

D @ 500 = 822



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