

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 Co. Lease San Juan 28-7 Well No. 20
Unit M Sec. 8 Twp. 28N Rge. 7W Pay Zone: From 5018 To 5164
Casing: OD 7 WT. 20 Set At 3480 Tubing: OD 2 WT. 4.7 T. Perf. 5649
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .690
Date of Flow Test: From 1/8/56 To 1/16/56 * Date S.I.P. Measured 11/7/55
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:
(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 (7.75) ² x sp. const. 10 = 601 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 601 psia (h)
P_t = (h) + (f) _____ = 601 psia (i)
Wellhead casing shut-in pressure (Dwt) 1052 psig + 12 = 1064 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1046 psig + 12 = 1058 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1058 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = 527 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 529 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{_____}}{\sqrt{(d)}} = \text{_____}} \right)^* = \text{606 MCF/da}$
(integrated)

DELIVERABILITY CALCULATION
D = Q 606 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{839,523}{750,114}^n \frac{1.1191}{1.0882} = \text{659 MCF/da.}$

SUMMARY
P_c = 1058 psia
Q = 606 Mcf/dgy
P_w = 608 psia
P_d = 529 psia
D = 659 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3898</u>	<u>0.247</u>	<u>32.467</u>	<u>8.019</u>		<u>361,201</u>	<u>369,220</u>	<u>608</u>

D @ 500 = 664



