

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 Alamosa Mesa Verde Formation Alamosa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease San Juan 21-7 Well No. 44
Unit A Sec. 2 Twp. 27N Rge. 7E Pay Zone: From 1490 To 9091
Casing: OD 7 WT. 80 Set At 2045 Tubing: OD 2 WT. 4.7 T. Perf. 9001
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 690 Estimated _____
Date of Flow Test: From 6-20-56 To 6-30-56 * Date S.I.P. Measured 12-23-55
Meter Run Size 4 Orifice Size _____ Type Chart Eq. 1 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 (7.50)² x sp. const. 10 = 963 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 963 psia (h)
P_t = (h) + (f) _____ = 963 psia (i)
Wellhead casing shut-in pressure (Dwt) 1096 psig + 12 = 1108 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1092 psig + 12 = 1104 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1104 psia (l)
Flowing Temp. (Meter Run) 73 °F + 460 _____ = 533 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 552 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{1427} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1427 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1491} \text{ MCF/da.}$
1.0403
1.0430

SUMMARY

P_c = 1104 psia
Q = 1427 Mcf/day
P_w = 997 psia
P_d = 992 psia
D = 1491 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 1)		
<u>3451</u>	<u>.222</u>	<u>180.016</u>	<u>39.96</u>	<u>114.99</u>		

D @ 900 = 1492

