

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 Antero Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Lackey Well No. 6-3
Unit B Sec. 21 Twp. 28 Rge. 9 Pay Zone: From 2273 To 2310
Casing: 5 1/2 WT. 15.5 Set At 2351 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 2246
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .645 Estimated _____
Date of Flow Test: From 2/28 To 3/9/57 * Date S.I.P. Measured 6/25/56
Meter Run Size _____ Orifice Size 1.750 Type Chart 24. R.L. 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 (6.30) ² x sp. const. 500 _____ = 231 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = 231 psia (h)
P_f = (h) + (f) _____ = 231 psia (i)
Wellhead casing shut-in pressure (Dwt) 771 psig + 12 = 771 psia (j)
Wellhead tubing shut-in pressure (Dwt) 771 psig + 12 = 771 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 771 psia (l)
Flowing Temp. (Meter Run) 53 °F + 460 _____ = 513 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 385.5 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{c}}{\sqrt{d}} \right)^* = \underline{100} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 100 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{100} \text{ MCF/da.}$
 $\frac{1488,600}{143,928} = \underline{.8319}$
 $\frac{.8319}{.8551} = \underline{.972}$

SUMMARY

P_c = 771 psia
Q = _____ Mcf/day
P_w = 771 psia
P_d = 385.5 psia
D = _____ 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 _c ² + P _d ²	P _w
			FRICTION NEGLECTED			

B 0 250 2 397

OK



1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

1000

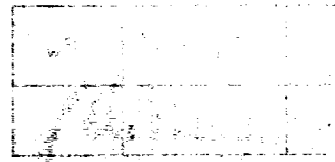
1000

1000

1000

1000

1000



1000

1000