

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)

72-078

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

Operator El Paso Natural Gas Lease San Juan 28-6 Unit Well No. 57
Unit M Sec. 13 Twp. 28N Rge. 6W Pay Zone: From 5054 To 5592
Casing: OD 5-1/2 WT. 15.5 Set At 5655 Tubing: OD 2" WT. 4.7 T. Perf. 5459
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .695 Estimated _____
Date of Flow Test: From 4/9/58 To 4/17/58 * Date S.I.P. Measured 6/22/56
Meter Run Size _____ Orifice Size 2.000 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 (7.75) 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) 1086 psig + 12 = 1098 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1083 psig + 12 = 1095 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1095 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 548 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^2 = \underline{4414}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 4414 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{2.1258}{1.7600} = \underline{7769}$ MCF/da.

SUMMARY

P_c = 1095 psia
Q = 4414 Mcf/day
P_w = 881 psia
P_d = 548 psia
D = 7769 Mcf/day

Company El Paso Natural Gas
By Howard R. [Signature]
Title _____
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 + B ²	P _w
<u>3794</u>	<u>.241</u>	<u>1,722.250</u>	<u>415,062</u>		<u>361,201</u>	<u>776263</u>	<u>881</u>

D at 500 = 4800

