

Initial Deliverability
Test

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)

114790

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 29-6 Well No. 62-4
Unit A Sec. 4 Twp. 29 Rge. 6 Pay Zone: From 4552 To 5606
Casing: OD 7 WT. 20 Set At 7474 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 5570
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .684 Estimated _____
Date of Flow Test: From 2/7/60 To 2/15/60 * Date S.I.P. Measured 9/23/59
Meter Run Size _____ Orifice Size _____ 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 511 psig + 12 = 523 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 523 psia (h)
P_t = (h) + (f) _____ = 523 psia (i)
Wellhead casing shut-in pressure (Dwt) 945 psig + 12 = 957 psia (j)
Wellhead tubing shut-in pressure (Dwt) 945 psig + 12 = 957 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 957 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 _____ = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 479 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{127} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 127 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{134} \text{ MCF/da.}$
 $\frac{686408}{639954}$ $\frac{1.0725}{1.0539}$

SUMMARY

P_c = 957 psia
Q = 127 Mcf/day
P_w = 525 psia
P_d = 479 psia
D = 134 Mcf/day

Company El Paso Natural Gas
By _____ Original Signed
Title _____
Witnessed by Harold L. Kendrick
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 _t ² + R ²	P _w
<u>3810</u>	<u>.242</u>	<u>9.778</u>	<u>2366</u>	<u>273529</u>	<u>275895</u>	<u>525</u>

D at 500 = 129

