

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)

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 28-7 Well No. 70

Unit N Sec. 33 Twp. 28 Rge. 7 Pay Zone: From 4882 To 5562

Casing: OD 5-1/2 WT. 15.5 Set At 5673 Tubing: OD 2 WT. 4.7 T. Perf. 5522

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .700 Estimated _____

Date of Flow Test: From 9/1 To 9/9 * Date S.I.P. Measured 4/19/57

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 _____ psig + 12 = _____ psia (g)

Square root chart average reading (7.20) ² x sp. const. 1.0 = 518 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) = 518 psia (h)

P_t = (h) + (f) = 518 psia (i)

Wellhead casing shut-in pressure (Dwt) 1070 psig + 12 = 1082 psia (j)

Wellhead tubing shut-in pressure (Dwt) 1067 psig + 12 = 1079 psia (k)

P_c = (j) or (k) whichever well flowed through = 1079 psia (l)

Flowing Temp. (Meter Run) 77 °F + 460 = 537 °Abs (m)

P_d = 1/2 P_c = 1/2 (l) = 540 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right) = \underline{1844} \text{ MCF/day}$

(integrated)

DELIVERABILITY CALCULATION

D = Q 1844 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{1928} \text{ MCF/day}$

$\frac{872,641}{822,277}$ $\frac{1.0612}{1.0455}$

SUMMARY

P_c = 1079 psia
Q = 1844 Mcf/day
P_w = 585 psia
P_d = 540 psia
D = 1928 Mcf/day

Company El Paso Natural Gas
By _____
Title Original Signed
Witnessed by Lewis D. Galloway
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
3865	.245	300,572	73,640	268,324	341,964	585

D at 500 = 1853

