

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 Company Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 27-5 Well No. 16
Unit M Sec. 23 Twp. 27 Rge. 5 Pay Zone: From 4998 To 5576
Casing: OD 5 1/2 WT. 15.5 Set At 5935 Tubing: OD 2 WT. 4.7 T. Perf. 5534
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .685 Estimated _____
Date of Flow Test: From 4/30 To 5/8/57 * Date S.I.P. Measured 11/30/56 (11 days)
Meter Run Size 4 Orifice Size 1.000 Type Chart Sq. Rt. 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 (7.35) ² x sp. const. 10 _____ = 510 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 510 psia (h)
P_t = (h) + (f) _____ = 510 psia (i)
Wellhead casing shut-in pressure (Dwt) 1108 psig + 12 = 1120 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1107 psig + 12 = 1119 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1119 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ = 522 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 560 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{V(c)}{V(d)} \right)^* = \underline{138} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 138 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{136} \text{ MCF/da.}$
.9770
.9827

SUMMARY

P_c = 1119 psia
Q = 138 Mcf/day
P_w = 510 psia
P_d = 560 psia
D = 136 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})	(FcQ) ²	(FcQ) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w

FRICTION NEGLIGIBLE

D @ 500 = 141

