

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 San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 28-7 Unit Well No. 68
Unit B Sec. 31 Twp. 28N Rge. 7W Pay Zone: From 4659 To 4821
Casing: OD 5-1/2 WT. 15.5 Set At 4868 Tubing: OD 2 WT. 4.7 T. Perf. 4751
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .700 Estimated _____
Date of Flow Test: From 10/8/57 To 10/16/57 Date S.I.P. Measured 4/11/57 (9 days)
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 (7.10) ² x sp. const. 10 _____ = 504 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 504 psia (h)
P_t = (h) + (f) _____ = 504 psia (i)
Wellhead casing shut-in pressure (Dwt) 912 psig + 12 = 924 psia (j)
Wellhead tubing shut-in pressure (Dwt) 910 psig + 12 = 922 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 922 psia (l)
Flowing Temp. (Meter Run) 63 °F + 460 _____ = 523 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 461 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{c}}{\sqrt{d}} \right) = \underline{\underline{251}}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 251 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{\underline{264}}$ MCF/day.
 $\frac{637,563}{594,870}$ $\frac{1.0717}{1.0533}$

SUMMARY

P_c = 922 psia
Q = 251 Mcf/day
P_w = 505 psia
P_d = 461 psia
D = 264 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title _____
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
3326	.215	5570	1198	254,016	255,214	505

D at 500 = 248

OK



