

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 B-MV Formation MV County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator EPNG Lease San Juan 28-7 Unit Well No. 22
Unit B Sec. 17 Twp. 28 Rge. 7 Pay Zone: From 4475 To 5162
Casing: OD 7 WT. 20 Set At 4440 Tubing: OD 2 WT. 4.7 T. Perf. 4566
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 676 Estimated _____
Date of Flow Test: From 12-22-58 To 12-30-58 * Date S.I.P. Measured 9-6-58
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. 1000 = 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) 869 psig + 12 = 881 psia (j)
Wellhead tubing shut-in pressure (Dwt) 847 psig + 12 = 859 psia (k)
P_c = (j) or (k) whichever well flowed through = 859 psia (l)
Flowing Temp. (Meter Run) 50 °F + 460 = 510 °Abs (m)
P_d = ½ P_c = ½ (l) = 430 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \text{_____ MCF/day}$$

296 $\left[\frac{552,981}{468,000} \right]^n$ $\frac{1.1815}{1.1331}$ 335

SUMMARY

P_c = 859 psia
Q = 296 Mcf/day
P_w = 520 psia
P_d = 430 psia
D = 335 Mcf/day

Company El Paso Natural Gas Co.
By _____ Original Signed
Title Harold L. Kendrick
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 + R ²	P _w
3087	.201	7.745	1,557		268,324	269,881	520

$$D_{500} = \frac{075,737}{469,557} \times \frac{10131}{10098} = 299$$



