

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 Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 32-9 Unit Well No. 64
Unit M Sec. 2 Twp. 31 Rge. 9 Pay Zone: From 5610 To 5824
Casing: OD 7-5/8 WT. 26.4 Set At 3586 Tubing: OD 2" WT. 4.7 T. Perf. 5777
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .580 Estimated _____
Date of Flow Test: From 5/7/58 To 9/15/58 * Date S.I.P. Measured 5/16/58 (51 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing; (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.05) ² x sp. const. 10 = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 497 psia (h)
P_t = (h) + (f) = 497 psia (i)
Wellhead casing shut-in pressure (Dwt) 1020 psig + 12 = 1032 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1022 psig + 12 = 1034 psia (k)
P_c = (j) or (k) whichever well flowed through = 1034 psia (l)
Flowing Temp. (Meter Run) 76 °F + 460 = 536 °Abs (m)
P_d = ½ P_c = ½ (l) = 517 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{V(c)}}{\sqrt{V(d)}} \right) = \text{806 MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ 806 } \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \text{800 MCF/da.}$$

SUMMARY

P_c = 1034 psia
Q = 806 Mcf/day
P_w = 509 psia
P_d = 517 psia
D = 800 Mcf/day

Company El Paso Natural Gas
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 (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3351	.216	57.426	12,404	247,009	259,413	509

D at 500 = 795

OK

