

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)

72-217

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 29-7 Well No. 64
Unit H Sec. 11 Twp. 29N Rge. 7W Pay Zone: From 4960 To 9480
Casing: OD 5.5 WT. 15.5 Set At 5620 Tubing: OD 2" WT. 4.7 T. Perf. 5450
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .672 Estimated _____
Date of Flow Test: From 9/21/58 To 10/1/58 * Date S.I.P. Measured 6/2/58 (7 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 (7.00) ² x sp. const. 10 = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 490 psia (h)
P_t = (h) + (f) = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) 1083 psig + 12 = 1095 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1070 psig + 12 = 1082 psia (k)
P_c = (j) or (k) whichever well flowed through = 1082 psia (l)
Flowing Temp. (Meter Run) 81 °F + 460 = 541 °Abs (m)
P_d = ½ P_c = ½ (l) = 541 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{1228} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1228 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{878043}{899429} \cdot \frac{.9762}{.9821} = \text{1206} \text{ MCF/da.}$

SUMMARY

P_c = 1082 psia
Q = 1228 Mcf/day
P_w = 521 psia
P_d = 541 psia
D = 1206 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
3662	.234	133.310	31,195	240,100	271,295	521

D at 500 = 1206

