

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)

72-097-01

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. 67

Unit N Sec. 23 Twp. 34 Rge. 7 Pay Zone: From 5260 To 5386

Casing: OD 5-1/2 WT. 15.5 Set At 5461 Tubing: OD 2 WT. 4.7 T. Perf. 5343

Produced Through: Casing _____ Tubing X Gas Gravity: Measured 673 Estimated _____

Date of Flow Test: From 5/15/58 To 5/22/58 * Date S.I.P. Measured 3/27/58

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 (7.10) 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) 1078 psig + 12 = 1090 psia (j)

Wellhead tubing shut-in pressure (Dwt) 1071 psig + 12 = 1083 psia (k)

P_c = (j) or (k) whichever well flowed through 83 _____ = 1083 psia (l)

Flowing Temp. (Meter Run) _____ °F + 460 _____ = 543 °Abs (m)

P_d = 1/2 P_c = 1/2 (l) _____ = 542 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \underline{1852} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{1852} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{879125}{849134} \right]^n \frac{1.0353}{1.0264} = \underline{1901} \text{ MCF/da.}$$

SUMMARY

P_c = 1083 psia
Q = 1852 Mcf/day
P_w = 569 psia
P_d = 542 psia
D = 1901 Mcf/day

Company El Paso Natural Gas
By Harold L. Ferdinand
Title _____
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
3596 ✓	.230 ✓	303.213	69,739 ✓	254,016 ✓	323,755 ✓	569 ✓

D at 500 = 1840

