

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)

70-072-01

Pool Blanco Formation Mesa Verde County San Juan

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Day Well No. 2

Unit M Sec. 9 Twp. 29 Rge. 8 Pay Zone: From 4726 To 5522

Casing: OD 6-5/8 WT. 20 Set At 4572 Tubing: OD 2 WT. 4.7 T. Perf. 4747

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .682 Estimated _____

Date of Flow Test: From 10/30/58 To 11/7/58 * Date S.I.P. Measured 5/22/58

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 (6.85)² x sp. const. 10 = 469 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 469 psia (h)

P_t = (h) + (f) _____ = 469 psia (i)

Wellhead casing shut-in pressure (Dwt) 798 psig + 12 = 810 psia (j)

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

+ P_c = (j) or (k) whichever well flowed through _____ = 810 psia (l)

Flowing Temp. (Meter Run) 61 °F + 460 _____ = 521 °Abs (m)

P_d = ½ P_c = ½ (l) _____ = 405 psia (n)

FLOW RATE CALCULATION

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

DELIVERABILITY CALCULATION

$$D = Q \text{ _____ } \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right] = \frac{492075}{427327} \times \frac{1.1515}{1.115} = \text{_____} \text{ MCF/da.}$$

SUMMARY

P_c = 810 psia
Q = 689 Mcf/day
P_w = 478 psia
P_d = 405 psia
D = 766 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
3237	.210	41.964	8,812	219,961	228,773	478

+ Used highest SIP

D at 500 = 638



