

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)

74-735-01

So. Blanco

Pool Undesignated Formation Pictured Cliff County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease Turner Abraham Well No. 1

Unit E Sec. 24 Twp. 24 Rge. 2 Pay Zone: From 3412 To 3428

Casing: OD 5-1/2 WT. 15.50 Set At 3505 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 3409

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .655 Estimated _____

Date of Flow Test: From 10-30-58 To 11-7-58 * Date S.I.P. Measured 10-3-58

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 (7.25) ² x sp. const. 5.0 _____ = 263 psia (g)

Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 263 psia (h)

P_t = (h) + (f) _____ = 263 psia (i)

Wellhead casing shut-in pressure (Dwt) 864 psig + 12 = 876 psia (j)

Wellhead tubing shut-in pressure (Dwt) 865 psig + 12 = 877 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 877 psia (l)

Flowing Temp. (Meter Run) 54 °F + 460 _____ = 514 °Abs (m)

P_d = 1/2 P_c = 1/2 (l) _____ = 439 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{387} \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{387} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{334} \text{ MCF/day}$$

SUMMARY

P_c = 877 psia
Q = 387 Mcf/day
P_w = 288 psia
P_d = 439 psia
D = 334 Mcf/day

Company El Paso Natural Gas Company
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
2233	.150	90,783	13,617	69,169	82,786	288

$$D \text{ at } 250 = \frac{700485}{699860} = 1.0007 = 387$$

$$\frac{699860}{699860} = 1.006$$

all

