

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 Tapacito Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 27-4 Unit Well No. 11

Unit 0 Sec. 31 Twp. 27 Rge. 4 Pay Zone: From 3964 To 3996

Casing: OD 5-1/2 WT. 15.5 Set At 4071 Tubing: OD 2 WT. 4.7 T. Perf. 3943

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

Date of Flow Test: From 10/7/58 To 10/15/58 Date S.I.P. Measured 10/10/57

Meter Run Size _____ Orifice Size 1.500 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 (7.35)² x sp. const. 10 _____ = 540 psia (g)

Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 540 psia (h)

P_t = (h) + (f) _____ = 540 psia (i)

Wellhead casing shut-in pressure (Dwt) 1042 psig + 12 = 1054 psia (j)

Wellhead tubing shut-in pressure (Dwt) 1042 psig + 12 = 1054 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 1054 psia (l)

Flowing Temp. (Meter Run) 63 °F + 460 _____ = 523 °Abs (m)

P_d = ½ P_c = ½ (l) _____ = 527 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{877} \text{ MCF/da}$

(integrated)

DELIVERABILITY CALCULATION

D = Q 877 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{835187}{819316} \times \frac{1.0169}{1.0143} = \text{890} \text{ MCF/da.}$

SUMMARY

P _c =	<u>1054</u>	psia	Company	<u>El Paso Natural Gas</u>
Q =	<u>877</u>	Mcf/day	By	<u>Original Signed</u>
P _w =	<u>540</u>	psia	Title	<u>Harold L. Kendrick</u>
P _d =	<u>527</u>	psia	Witnessed by	
D =	<u>890</u>	Mcf/day	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
			Friction Negligible			

D at 250 = 1076



