

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 South Blanco Formation Pictured Cliff County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Co. Lease Flarance Well No. 2-D  
Unit B Sec. 17 Twp. 27 Rge. 8 Pay Zone: From 2870 To 2930  
Casing: OD 7 WT. 20 Set At 2870 Tubing: OD 1 WT. 1.68 T. Perf. 2878  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured \_\_\_\_\_ Estimated .640  
Date of Flow Test: From 1/31 To 2/8/56 \* Date S.I.P. Measured 10/11/55  
Meter Run Size 4 Orifice Size \_\_\_\_\_ Type Chart Sq. Rt. Type Taps Flange

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 ( \_\_\_\_\_ )<sup>2</sup> 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 (7.20)<sup>2</sup> x sp. const. 5 \_\_\_\_\_ = 259 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 259 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 259 psia (i)  
Wellhead casing shut-in pressure (Dwt) 794 psig + 12 = 806 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 794 psig + 12 = 806 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 806 psia (l)  
Flowing Temp. (Meter Run) 55 °F + 460 \_\_\_\_\_ = 515 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) \_\_\_\_\_ = 403 psia (n)

FLOW RATE CALCULATION

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{1109}$  MCF/da  
(integrated)

DELIVERABILITY CALCULATION

D = Q 1109  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{953}$  MCF/da.  
 $\frac{487,227}{582,555} \cdot \frac{.8364}{.8592}$

SUMMARY

P<sub>c</sub> = 806 psia  
Q = 1109 Mcf/day  
P<sub>w</sub> = 259 psia  
P<sub>d</sub> = 403 psia  
D = 953 Mcf/day

Company El Paso Natural Gas Company  
By Original Signed  
Title Lewis D. Galloway  
Witnessed by \_\_\_\_\_  
Company \_\_\_\_\_

\* This is date of completion test.  
\* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e <sup>-S</sup> )	(F <sub>c</sub> Q) <sup>2</sup>	$\frac{(F_c Q)^2 (1-e^{-S})}{R^2}$	P <sub>t</sub> <sup>2</sup> (Column i)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
			<u>FRICION NEGLEGIBLE</u>			

D @ 250 = 1106



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