

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: Blanco Formation Mesa Verde County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease San Juan 28-7 Well No. 51

Unit B Sec. 24 Twp. 28 Rge. 7 Pay Zone: From 4980 To 5076

Casing: OD 7 5/8 WT. 26.4 <sup>5 1/2 at 5717</sup> Set At 3618 Tubing: OD 2 WT. 4.7 T. Perf. 5593

Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .700 Estimated \_\_\_\_\_

Date of Flow Test: From 1/16/57 To 1/24 \* Date S.I.P. Measured 7/17/56 (9 days)

Meter Run Size 4 Orifice Size \_\_\_\_\_ Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flow ng casing pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (a)  
 Flow ng tubing pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (b)  
 Flow ng meter pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (c)  
 Flow ng 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:  
 (k) - (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)<sup>2</sup> x sp. const. 10 = 540 psia (g)  
 Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 540 psia (h)  
 P<sub>t</sub> = (h) + (f) = 540 psia (i)  
 Wellhead casing shut-in pressure (Dwt) 1069 psig + 12 = 1081 psia (j)  
 Wellhead tubing shut-in pressure (Dwt) 1061 psig + 12 = 1073 psia (k)  
 P<sub>c</sub> = (j) or (k) whichever well flowed through = 1073 psia (l)  
 Flow ng Temp. (Meter Run) 66 °F + 460 = 526 °Abs (m)  
 P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) = 537 psia (n)

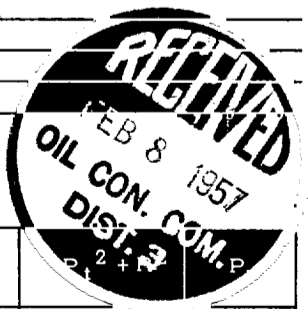
Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right)^* = \underline{1208}$  MCF/da  
 (integrated)  $\sqrt{(d)} = \dots = \dots$

DELIVERABILITY CALCULATION

D = Q 1208  $\left[ \frac{(P_c^2 - P_d^2) = \underline{862,960}}{(P_c^2 - P_w^2) = \underline{827,736}} \right]^n \frac{1.0125}{1.0317} = \underline{1246}$  MCF/da.

SUMMARY

P<sub>c</sub> = 1073 psia  
 Q = 1208 Mcf/day  
 P<sub>w</sub> = 569 psia  
 P<sub>d</sub> = 537 psia  
 D = 1246 Mcf/day  
 Company El Paso Natural Gas Company  
 By Original Signed  
 Title Lewis D. Galloway  
 Witnessed by \_\_\_\_\_  
 Company \_\_\_\_\_



REMARKS OR FRICTION CALCULATIONS

GL	(1-e <sup>-S</sup> )	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> ) R <sup>2</sup>	P <sub>t</sub> <sup>2</sup> (Column i)		
<u>3915</u>	<u>.248</u>	<u>129.004</u>	<u>31,993</u>	<u>291,600</u>	<u>323,593</u>	<u>569</u>

D @ 500 = 1239

*OK*