

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 27-5 Unit Well No. 13  
Unit B Sec. 30 Twp. 27 Rge. 5 Pay Zone: From 5216 To 5622  
Casing: OD 5 1/2 WT. 15.5 Set At 5672 Tubing: OD 2 WT. 4.7 T. Perf. 5517  
Produced Through: Casing \_\_\_\_\_ Tubing I Gas Gravity: Measured .670 Estimated \_\_\_\_\_  
Date of Flow Test: From 11/30 To 12/8/56 Date S.I.P. Measured 12/30/55 (30 days)  
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 ( \_\_\_\_\_ ) <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 (7.55) <sup>2</sup> x sp. const. 10 = 570 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 570 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 570 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1003 psig + 12 = 1015 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1001 psig + 12 = 1013 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1013 psia (l)  
Flowing Temp. (Meter Run) 50 °F + 460 \_\_\_\_\_ = 510 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 507 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right) = \underline{325} \text{ MCF/da}$   
(integrated)

DELIVERABILITY CALCULATION

D = Q 325  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{349} \text{ MCF/da.}$   
 $\frac{762,120}{699,065}$   $\frac{1.1002}{1.0743}$

SUMMARY

P<sub>c</sub> = 1013 psia  
Q = 325 Mcf/day  
P<sub>w</sub> = 572 psia  
P<sub>d</sub> = 507 psia  
D = 349 Mcf/day

Company El Paso Natural Gas Company  
By \_\_\_\_\_  
Title APPROVED 'D' SIGNATURE Original Signed  
Witnessed by PAULIS LEWIS Lewis D. Galloway  
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>	(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)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
<u>3696</u>	<u>.236</u>	<u>9.339</u>	<u>2204</u>	<u>324,900</u>	<u>327,104</u>	<u>572</u>

D @ 500 = 347

