

Initial Deliverability  
Test

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 San Juan  
Purchasing Pipeline El Paso Natural Gas Date Test Filed \_\_\_\_\_  
Operator El Paso Natural Gas Lease San Juan 32-9 Well No. 17  
Unit I Sec. 8 Twp. 31 Rge. 9 Pay Zone: From 5370 To 5920  
Casing: OD 7 WT. 20 & 23 Set At 5260 Tubing: OD 2 WT. 4.7 T. Perf. 5818  
Produced Through: Casing \_\_\_\_\_ Tubing I Gas Gravity: Measured .610 Estimated \_\_\_\_\_  
Date of Flow Test: From 4/23 To 5/1/57 \* Date S.I.P. Measured 5/8/56  
Meter Run Size 4 Orifice Size .750 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 ( 7.55 )<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) \_\_\_\_\_ 892 psig + 12 = 903 psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ 923 psig + 12 = 935 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 935 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ 60 °F + 460 \_\_\_\_\_ = 520 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 460 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{189}$  MCF/da  
(integrated)

DELIVERABILITY CALCULATION  
D = Q 189  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{216}$  MCF/da.  
 $\frac{1.1913}{1.1427}$

SUMMARY

P<sub>c</sub> = 935 psia Company El Paso Natural Gas  
Q = 189 Mcf/day By Original Signed  
P<sub>w</sub> = 571 psia Title Lewis D. Galloway  
P<sub>d</sub> = 460 psia Witnessed by \_\_\_\_\_  
D = 216 Mcf/day Company \_\_\_\_\_

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e <sup>-5</sup> )	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> R <sup>2</sup>	(1-e <sup>-5</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>3724</u>	<u>.837</u>	<u>3.158</u>	<u>748</u>		<u>324,900</u>	<u>325,648</u>	<u>571</u>

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OIL CONSERVATION COMMISSION

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