

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 Rio Arriba  
Purchasing Pipeline El Paso Natural Gas Date Test Filed \_\_\_\_\_  
Operator El Paso Natural Gas Lease San Juan 27-5 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 X Gas Gravity: Measured .670 Estimated \_\_\_\_\_  
Date of Flow Test: From 3/23 To 3/31/57 \* Date S.I.P. Measured 12/30/56 (10 days)  
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) 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  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right)^* = \underline{86}$  MCF/da  
(integrated)  $\sqrt{(d)} = \dots$

DELIVERABILITY CALCULATION

D = Q 86  $\left[ \frac{(P_c^2 - P_d^2) = \underline{769,120}}{(P_c^2 - P_w^2) = \underline{701,269}} \right]^n \frac{1.0967}{1.0716} = \underline{92}$  MCF/da.

SUMMARY

P<sub>c</sub> = 1013 psia Company El Paso Natural Gas  
Q = 86 Mcf/day By Original Signed  
P<sub>w</sub> = 570 psia Title Lewis D. Galloway  
P<sub>d</sub> = 507 psia Witnessed by \_\_\_\_\_  
D = 92 Mcf/day 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>
FRICTION NEGLIGIBLE						

D @ 500 = 92

