

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 28-6 Well No. 74  
Unit A Sec. 3 Twp. 27 Rge. 6 Pay Zone: From 4732 To 5389  
Casing: OD 5-1/2 WT. 14 Set At 5440 Tubing: OD 2 WT. 4.7 T. Perf. 5295  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .715 Estimated \_\_\_\_\_  
Date of Flow Test: From 11/8/57 To 11/16/57 \* Date S.I.P. Measured 3/5/57  
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 (7.30) <sup>2</sup> x sp. const. .10 \_\_\_\_\_ = 533 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 533 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 533 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1115 psig + 12 = 1127 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1111 psig + 12 = 1123 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1123 psia (l)  
Flowing Temp. (Meter Run) 39 °F + 460 \_\_\_\_\_ = 499 ° Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) \_\_\_\_\_ = 562 psia (n)

FLOW RATE CALCULATION

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{22}$  MCF/da  
(integrated)

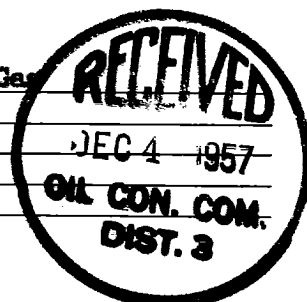
DELIVERABILITY CALCULATION

D = Q 22  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{21}$  MCF/da.  
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{945,285}{977,040}$   $\frac{.9674}{.9754}$

SUMMARY

P<sub>c</sub> = 1123 psia  
Q = 22 Mcf/day  
P<sub>w</sub> = 533 psia  
P<sub>d</sub> = 562 psia  
D = 21 Mcf/day

Company El Paso Natural Gas  
By \_\_\_\_\_  
Title Original Signed  
Witnessed by 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>
3786	.241	.043	Neg.			

D at 500 = 22

*Old*