

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 Mesa Verde 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 Unit Well No. 56  
Unit K Sec. 12 Twp. 32 Rge. 10 Pay Zone: From 5770 To 5992  
Casing: OD 5-1/2 WT. 15.5 Set At 6071 Tubing: OD 2 WT. 4.7 T. Perf. 5954  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .605 Estimated \_\_\_\_\_  
Date of Flow Test: From 1-8-58 To 1-16-58 \* Date S.I.P. Measured 10-31-57 (18 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 (7.10) <sup>2</sup> x sp. const. 10 = 504 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 504 psia (h)  
P<sub>t</sub> = (h) + (f) = 504 psia (i)  
Wellhead casing shut-in pressure (Dwt) 960 psig + 12 = 972 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 960 psig + 12 = 972 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 972 psia (l)  
Flowing Temp. (Meter Run) 63 °F + 460 = 523 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) = 486 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{381} \text{ MCF/da}$   
(integrated)

DELIVERABILITY CALCULATION

D = Q 381  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{708,588}{687,817}^n \frac{1.0301}{1.0225} = \text{390} \text{ MCF/da.}$

SUMMARY

P<sub>c</sub> = 972 psia  
Q = 381 Mcf/day  
P<sub>w</sub> = 507 psia  
P<sub>d</sub> = 486 psia  
D = 390 Mcf/day  
Company El Paso Natural Gas  
By Original Signed  
Title \_\_\_\_\_  
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>
3602	.230	12.831	2,951	254,016	256,967	507

D at 500 = 378

