

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 South Blanco Formation Pictured Cliff County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease Bolack Well No. 3-C  
Unit D Sec. 29 Twp. 27 Rge. 8 Pay Zone: From 2770 To 2790  
Casing: OD 5-1/2 WT. 15.5 Set At 2854 Tubing: OD 2 WT. 4.7 T. Perf. 2741  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured .670 Estimated \_\_\_\_\_  
Date of Flow Test: From 9/8/57 To 9/17/57 \* Date S.I.P. Measured 10/11/56  
Meter Run Size 4 Orifice Size 0.500 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 7.25 500 psig + 12 = 263 psia (g)  
Square root chart average reading (\_\_\_\_\_) <sup>2</sup> x sp. const. \_\_\_\_\_ = 263 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 263 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 805 psia (i)  
Wellhead casing shut-in pressure (Dwt) 793 psig + 12 = 805 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 793 psig + 12 = 805 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through 63 \_\_\_\_\_ = 523 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ °F + 460 \_\_\_\_\_ = 403 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = \_\_\_\_\_ psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{_____}}{\sqrt{(d)}} = \text{_____} \right) = \text{102} \text{ MCF/day}$   
(integrated)

DELIVERABILITY CALCULATION  
D = Q 102  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{485,616}{578,856} \times \frac{.8389}{.8610} = 88$

SUMMARY  
P<sub>c</sub> = 805 psia  
Q = 102 Mcf/day  
P<sub>w</sub> = 263 psia  
P<sub>d</sub> = 403 psia  
D = 88 Mcf/day

Company El Paso Natural Gas  
By Original Signed  
Title Lewis D. Galloway  
Witnessed by \_\_\_\_\_  
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 at 250 = 102

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