

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 28-5 Unit Well No. 4  
Unit G Sec. 19 Twp. 28 Rge. 5 Pay Zone: From 5164 To 5951  
Casing: OD 7 WT. 20 Set At 5137 Tubing: OD 2 WT. 4.7 T. Perf. 5700  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .705 Estimated \_\_\_\_\_  
Date of Flow Test: From 9/22 To 9/30/57 \* Date S.I.P. Measured 12/8/53  
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 (7.40) <sup>2</sup> x sp. const. .10 = 548 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 548 psia (h)  
P<sub>t</sub> = (h) + (f) = 548 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1045 psig + 12 = 1057 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1041 psig + 12 = 1053 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1053 psia (l)  
Flowing Temp. (Meter Run) 75 °F + 460 = 535 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) = 527 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{108} \text{ MCF/da}$   
(Integrated)

DELIVERABILITY CALCULATION

D = Q 108  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{831,080}{808,505} \right]^n \frac{1.0279}{1.0208} = \text{110} \text{ MCF/da.}$

**CORRECTED COPY**

SUMMARY

P<sub>c</sub> = 1053 psia  
Q = 108 Mcf/day  
P<sub>w</sub> = 548 psia  
P<sub>d</sub> = 527 psia  
D = 110 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> )<br>R <sup>2</sup> | P <sub>t</sub> <sup>2</sup><br>(Column i) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|----|----------------------|---------------------------------|--|---|--|----------------|
|    |                      |                                 | <b>FRICTION NEGLIGIBLE</b>   |   |  |                |

B at 500 = 112

*OK*

