

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 El Paso Mesa Verde Formation Mesa Verde County Yia Arriba  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease San Juan 28-5 Well No. 20  
Unit K Sec. 15 Twp. 28N Rge. 5W Pay Zone: From 5304 To 5407  
Casing: OD 54 WT. 15.5 Set At 5245 Tubing: OD 2 WT. 4.7 T. Perf. 5705  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured 1.400 Estimated \_\_\_\_\_  
Date of Flow Test: From 5/31 To 6/0 \* Date S.I.P. Measured \_\_\_\_\_  
Meter Run Size 4 Orifice Size \_\_\_\_\_ Type Chart Sq. Ed. 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 (7.65) <sup>2</sup> x sp. const. 1000 \_\_\_\_\_ = \_\_\_\_\_ psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = \_\_\_\_\_ psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = \_\_\_\_\_ psia (i)  
Wellhead casing shut-in pressure (Dwt) 1081 psig + 12 = 1093 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1084 psig + 12 = 1096 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1096 psia (l)  
Flowing Temp. (Meter Run) 87 °F + 460 \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) \_\_\_\_\_ = 548 psia (n)

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

DELIVERABILITY CALCULATION  
D = Q 303  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0513}{1.0382} = \text{_____ MCF/day}$

SUMMARY

P<sub>c</sub> = 1096 psia  
Q = 303 Mcf/day  
P<sub>w</sub> = 587 psia  
P<sub>d</sub> = 548 psia  
D = 315 Mcf/day

Company El Paso Natural Gas Company  
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> )<br>R <sup>2</sup> | P <sub>t</sub> <sup>2</sup><br>(Column 1) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|-------------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| <u>3934</u> | <u>.249</u>          | <u>8.117</u>                    | <u>2.021</u>                                                           | <u>342,225</u>                            | <u>344,246</u>                               | <u>587</u>     |

D O 500 2 324

OK





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