

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 Co. Lease Schwerdtfeger Well No. 3-A  
Unit N Sec. 6 Twp. 27N Rge. 8 Pay Zone: From 2878 To 2936  
Casing: OD 7 WT. 20 Set At 2878 Tubing: OD 1 WT. 1.68# T. Perf. 2894  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured \_\_\_\_\_ Estimated .650  
Date of Flow Test: From 1/8/56 To 1/16/56 \* Date S.I.P. Measured 10/31/55  
Meter Run Size 4" Orifice Size \_\_\_\_\_ 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 \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (g)  
Square root chart average reading ( 7.10 )<sup>2</sup> x sp. const. 5 \_\_\_\_\_ = 252 psia (g)  
Corrected seven day avg. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 252 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 252 psia (i)  
Wellhead casing shut-in pressure (Dwt) 815 psig + 12 = 827 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 815 psig + 12 = 827 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 827 psia (l)  
Flowing Temp. (Meter Run) 50 °F + 460 \_\_\_\_\_ = 510 ° Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) \_\_\_\_\_ = 414 psia (n)

FLOW RATE CALCULATION

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{260}$  MCF/da  
(integrated)

DELIVERABILITY CALCULATION

D = Q 260  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{228}$  MCF/da.  
 $\frac{512,533}{598,145}$   $\frac{.8564}{.8767}$

SUMMARY

P<sub>c</sub> = 827 psia  
Q = 260 Mcf/day  
P<sub>w</sub> = 292 psia  
P<sub>d</sub> = 414 psia  
D = 228 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 i) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| 1881 | .128                 | 171.715                         | 21,980                                                                 | 63,504                                    | 85,484                                       | 292            |

D @ 250 = 258

