

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 Company Date Test Filed \_\_\_\_\_  
Operator El Paso Natural Gas Co. Lease McCulley Well No. 3-A  
Unit H Sec. 13 Twp. 30 Rge. 7 Pay Zone: From 5226 To 5738  
Casing: OD 5½ WT. 15.5 Set At 5765 Tubing: OD 2 WT. 4.7 T. Perf. 5634  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured \_\_\_\_\_ Estimated .645  
Date of Flow Test: From 12/16 To 12/23 \* Date S.I.P. Measured 10/26/55  
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 (7.45) <sup>2</sup> x sp. const. 10 = 555 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 555 psia (h)  
P<sub>t</sub> = (h) + (f) = 555 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1096 psig + 12 = 1108 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1096 psig + 12 = 1108 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1108 psia (l)  
Flowing Temp. (Meter Run) 90 °F + 460 = 550 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) = 554 psia (n)

FLOW RATE CALCULATION

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{3283}$  MCF/da  
(integrated)

DELIVERABILITY CALCULATION

D = Q 3283  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{4038}$  MCF/da.  
920,748 1.3180  
698,596 1.2300

SUMMARY

P<sub>c</sub> = 1108 psia  
Q = 3283 Mcf/day  
P<sub>w</sub> = 727 psia  
P<sub>d</sub> = 554 psia  
D = 4038 Mcf/day

Company El Paso Natural Gas Company  
By Lewis D. Galloway  
Title \_\_\_\_\_  
Witnessed by \_\_\_\_\_  
Company \_\_\_\_\_

\* This is date of completion test.  
\* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

| GL          | (1-e <sup>-s</sup> ) | (FcQ) <sup>2</sup> | (FcQ) <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> |
|-------------|----------------------|--------------------|-----------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| <u>3634</u> | <u>.232</u>          | <u>952.772</u>     | <u>221,043</u>                                            | <u>308,025</u>                            | <u>529,068</u>                               | <u>727</u>     |

D @ 500 = 3405



OK