

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 San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_  
Operator El Paso Natural Gas Lease Jones Well No. 5-A  
Unit K Sec. 13 Twp. 28 Rge. 8 Pay Zone: From 4518 To 5202  
Casing: OD 5½ WT. 15.5 Set At 5235 Tubing: OD 2 WT. 4.7 T. Perf. 5134  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .710 Estimated \_\_\_\_\_  
Date of Flow Test: From 8/31 To 9-8/56 \* Date S.I.P. Measured 5/18/56  
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: \_\_\_\_\_ = \_\_\_\_\_ psi (f)  
(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 ( 7.20 )<sup>2</sup> x sp. const. 10 = 518 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 518 psia (h)  
P<sub>t</sub> = (h) + (f) = 518 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1064 psig + 12 = 1076 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1058 psig + 12 = 1070 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1070 psia (l)  
Flowing Temp. (Meter Run) 82 °F + 460 = 542 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) = 535 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{1455}{1} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{1455}{\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{1/n}} = \frac{1455}{\left[ \frac{858,675}{832,972} \right]^{1/1.0308}} = 1488 \text{ MCF/da.}$$

SUMMARY

P<sub>c</sub> = 1070 psia  
Q = 1455 Mcf/day  
P<sub>w</sub> = 559 psia  
P<sub>d</sub> = 535 psia  
D = 1488 Mcf/day

Company El Paso Natural Gas Company

By J. Halloway

Title \_\_\_\_\_

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> ) | P <sub>t</sub> <sup>2</sup> (Column i) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|------|----------------------|---------------------------------|------------------------------------------------------|----------------------------------------|----------------------------------------------|----------------|
| 3645 | .233                 | 187.142                         | 43,604                                               | 268,324                                | 311,928                                      | 559            |

D @ 500 = 1463

OK



