

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

Operator El Paso Natural Gas Lease Heaton Well No. 4  
Unit H Sec. 29 Twp. 31N Rge. 11W Pay Zone: From 4800 To 4848  
Casing: OD 5 1/2 WT. 15.5 Set At 4975 Tubing: OD 2 WT. 4.7 T. Perf. 4806  
Produced Through: Casing \_\_\_\_\_ Tubing I Gas Gravity: Measured .690 Estimated \_\_\_\_\_  
Date of Flow Test: From 6/30 To 7/8 \* Date S.I.P. Measured 4/30/56  
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:  
(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. 1000 \_\_\_\_\_ = 504 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 504 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 504 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1063 psig + 12 = 1075 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1062 psig + 12 = 1074 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1074 psia (l)  
Flowing Temp. (Meter Run) 78 °F + 460 \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 537 psia (n)

Q = 1075 X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* =$  \_\_\_\_\_ MCF/da  
(integrated)

DELIVERABILITY CALCULATION

D = Q 1075  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{.9858}{.98932} =$  1064 MCF/da.

SUMMARY

P<sub>c</sub> = 1074 psia  
Q = 1075 Mcf/day  
P<sub>w</sub> = 525 psia  
P<sub>d</sub> = 537 psia  
D = 1064 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> |
|------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| 3316 | .214                 | 102.151                         | 21,860                                                                 | 254,016                                   | 275,876                                      | 525            |

D @ 500 = 1068





|                                    |                          |                                     |
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