

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 Lease McPherson Well No. 2  
Unit A Sec. 17 Twp. 30 Rge. 6 Pay Zone: From 5142 To 5610  
Casing: OD 7 WT. 20 & 23 Set At 5625 Tubing: OD 2 WT. 4.7 T. Perf. 5511  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured \_\_\_\_\_ Estimated .655  
Date of Flow Test: From 3/8 To 3/16 \* Date S.I.P. Measured 12/7/55  
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 ( 7.95 )<sup>2</sup> x sp. const. 10 \_\_\_\_\_ = \_\_\_\_\_ 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) 1135 psig + 12 = 1147 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1134 psig + 12 = 1146 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1146 psia (l)  
Flowing Temp. (Meter Run) 60 °F + 460 \_\_\_\_\_ = 520 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) \_\_\_\_\_ = 573 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right)^* = \underline{1658}$  MCF/da  
(integrated)  $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 1658  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1839}$  MCF/da.  
 $\frac{984,987}{857,755}$   $\frac{1.1483}{1.1094}$

SUMMARY

P<sub>c</sub> = 1146 psia Company El Paso Natural Gas Company  
Q = 1658 Mcf/day By Original Signed  
P<sub>w</sub> = 675 psia Title Lewis D. Galloway  
P<sub>d</sub> = 573 psia Witnessed by \_\_\_\_\_  
D = 1839 Mcf/day 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> |
|-------------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| <u>3610</u> | <u>.231</u>          | <u>243.017</u>                  | <u>56,137</u>                                                          | <u>399,424</u>                            | <u>455,561</u>                               | <u>675</u>     |

D @ 500 = 1842



OIL CONSERVATION COMMISSION

ACTING DISTRICT CLERK

Mr. C. J. [unclear] 3

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