

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 Mesero Formation Mesa Verde County San Juan  
Purchasing Pipeline El Paso Natural Date Test Filed \_\_\_\_\_  
Operator El Paso Natural Gas Lease Howell Well No. 2  
Unit B Sec. 26 Twp. 28 Rge. 8 Pay Zone: From 4025 To 4012  
Casing: OD 7 WT. 20 Set At 3950 Tubing: OD 2 WT. 4.7 T. Perf. 4994  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .672 Estimated \_\_\_\_\_  
Date of Flow Test: From 5/15/58 To 5/22/58 \* Date S.I.P. Measured 4/24/57  
Meter Run Size \_\_\_\_\_ Orifice Size \_\_\_\_\_ Type Chart \_\_\_\_\_ Type Taps \_\_\_\_\_

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 (7.15) <sup>2</sup> x sp. const. 10 \_\_\_\_\_ = 511 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 511 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 511 psia (i)  
Wellhead casing shut-in pressure (Dwt) 773 psig + 12 = 785 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 766 psig + 12 = 778 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 785 + psia (l)  
Flowing Temp. (Meter Run) 72 °F + 460 \_\_\_\_\_ = 533 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) \_\_\_\_\_ = 393 psia (n)

FLOW RATE CALCULATION

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{73}$  MCF/da  
(integrated)

DELIVERABILITY CALCULATION

D = Q 73  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{89}$  MCF/da.  
 $\frac{1.3003}{1.2175}$

SUMMARY

P<sub>c</sub> = 785 + psia  
Q = 73 Mcf/day  
P<sub>w</sub> = 511 psia  
P<sub>d</sub> = 393 psia  
D = 89 Mcf/day

Company El Paso Natural Gas  
By Original Signed  
Title Harold L. Kendrick  
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> ) R <sup>2</sup>	P <sub>t</sub> <sup>2</sup> (Column 1)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
			Friction Negligible			

+ Perforated tubing 5/2/58

D at 500 = 73

