

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 Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease KPMO State Well No. 4  
Unit N Sec. 16 Twp. 32 Rge. 10 Pay Zone: From 5105 To 5597  
Casing: OD 5.5 WT. 15.5 Set At 5634 Tubing: OD 2 WT. 4.7 T. Perf. 5570  
Produced Through: Casing \_\_\_\_\_ Tubing I Gas Gravity: Measured .635 Estimated \_\_\_\_\_  
Date of Flow Test: From 10/23/56 To 10/31/56 \* Date S.I.P. Measured 9/10/56  
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 (7.25) <sup>2</sup> x sp. const. 10 = 526 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 526 psia (h)  
P<sub>t</sub> = (h) + (f) = 526 psia (i)  
Wellhead casing shut-in pressure (Dwt) 916 psig + 12 = 928 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 908 psig + 12 = 1000 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1000 psia (l)  
Flowing Temp. (Meter Run) 66 °F + 460 = 526 ° Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) = 500 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{903}$  MCF/da  
(integrated)

DELIVERABILITY CALCULATION

D = Q 903  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{944}$  MCF/da.  
 $\frac{1.0608 \cdot 75}{1.0452}$

SUMMARY

P<sub>c</sub> 1000 psia  
Q 903 Mcf/day  
P<sub>w</sub> 541 psia  
P<sub>d</sub> 500 psia  
D 944 Mcf/day

Company El Paso Natural Gas  
By L. D. Galloway  
Title Sr. Gas Engineer  
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>	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
			R <sup>2</sup>	(Column 1)		
<u>3537</u>	<u>.227</u>	<u>72,080</u>	<u>16,362</u>	<u>276,676</u>	<u>293,038</u>	<u>541</u>

D<sub>500</sub> = 916



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