

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 Ballard PC Formation Pictured Cliffs County San Juan  
Purchasing Pipeline El Paso Natural Gas Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease Three States Well No. 1-A  
Unit E Sec. 16 Twp. 26 Rge. 8 Pay Zone: From 2254 To 2282  
Casing: OD 5-1/2 WT. 15.5 Set At 2352 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2231  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured .668 Estimated \_\_\_\_\_  
Date of Flow Test: From 1/16 To 1/24/58 \* Date S.I.P. Measured 9/28/57 (13 days)  
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 ( 7.10 ) <sup>2</sup> x sp. const. 10 \_\_\_\_\_ = 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) 654 psig + 12 = 666 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 654 psig + 12 = 666 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 666 psia (l)  
Flowing Temp. (Meter Run) 57 °F + 460 \_\_\_\_\_ = 517 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 333 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{815} \text{ MCF/da}$   
(integrated)

DELIVERABILITY CALCULATION  
D = Q 815  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{332,667}{189,540} \right]^n \frac{1.7551}{1.6140} = \underline{1315} \text{ MCF/da.}$

SUMMARY

P<sub>c</sub> = 666 psia  
Q = 815 Mcf/day  
P<sub>w</sub> = 504 psia  
P<sub>d</sub> = 333 psia  
D = 1315 Mcf/day  
Company El Paso Natural Gas  
By J. D. Ballou  
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> ) R <sup>2</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>
			FRICTION NEGLIGIBLE			

D at 250 = 1455

