

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 Otero Formation Pictured Cliffs County Rio Arriba  
Purchasing Pipeline \_\_\_\_\_ Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease Bolack Well No. 2-D  
Unit N Sec. 13 Twp. 24N Rge. 6W Pay Zone: From 2082 To 2152  
Casing: OD 5-1/2 WT. 15.5 Set At 2180 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2082  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured .674 Estimated \_\_\_\_\_  
Date of Flow Test: From 2-21 To 3-1-58 \* Date S.I.P. Measured 7-17-57 (16 days)  
Meter Run Size \_\_\_\_\_ Orifice Size 1.000 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 ( 6.65 ) <sup>2</sup> x sp. const. 500 = 221 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 221 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 221 psia (i)  
Wellhead casing shut-in pressure (Dwt) 691 psig + 12 = 703 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 691 psig + 12 = 703 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 703 psia (l)  
Flowing Temp. (Meter Run) 60 °F + 460 \_\_\_\_\_ = 520 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 352 psia (n)

FLOW RATE CALCULATION

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{323}$  MCF/da  
(Integrated)

DELIVERABILITY CALCULATION

D = Q 323  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{(.8314)^{.85}}{(.8548)} = \underline{276}$  MCF/da.

SUMMARY

P<sub>c</sub> = 703 psia Company El Paso Natural Gas Company  
Q = 323 Mcf/day By Original Signed  
P<sub>w</sub> = 221 psia Title Lewis D. Galloway  
P<sub>d</sub> = 352 psia Witnessed by \_\_\_\_\_  
D = 276 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> ) 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 = 311



OK

**OIL CONSERVATION COMMISSION**

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