

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 Wildcat Formation Pictured Cliff County Rio Arriba  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease Jicarilla Well No. 1-J  
Unit K Sec. 20 Twp. 26 Rge. 5 Pay Zone: From 3114 To 3168  
Casing: OD 5-1/2 WT. 15.5 Set At 3213 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 3136  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured .725 Estimated \_\_\_\_\_  
Date of Flow Test: From 8/23 To 8/31 \* Date S.I.P. Measured 4/1/57  
Meter Run Size 4 Orifice Size 1.000 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 ( 7.70 )<sup>2</sup> x sp. const. 5 \_\_\_\_\_ = 296 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 296 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 296 psia (i)  
Wellhead casing shut-in pressure (Dwt) 940 psig + 12 = 952 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 940 psig + 12 = 952 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 952 psia (l)  
Flowing Temp. (Meter Run) 59 °F + 460 \_\_\_\_\_ = 519 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 476 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left( \frac{\sqrt{(a)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right) = \text{286 MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ 286 } \left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{679,728}{818,688} \right]^n \frac{.8302}{.8538} = \text{244 MCF/day}$$

SUMMARY

P<sub>c</sub> = 952 psia  
Q = 286 Mcf/day  
P<sub>w</sub> = 296 psia  
P<sub>d</sub> = 476 psia  
D = 244 Mcf/day

Company El Paso Natural Gas Company  
By \_\_\_\_\_  
Title Original Signed  
Witnessed by Lewis D. Galloway  
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 = 292

