

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)

74-779

Pool Corvian Formation Pictured Cliffs County Rio Arriba  
Purchasing Pipeline El Paso Natural Gas Date Test Filed \_\_\_\_\_

Operator San Juan Gas Corp. Lease Federal Well No. 6-J  
Unit D Sec. 6 Twp. 24 Rge. 1 Pay Zone: From 3478 To 3473  
Casing: OD 4.5 WT. 16.6 Set At 3478 Tubing: OD 2 WT. 4.7 T. Perf. 3345  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured .682 Estimated \_\_\_\_\_  
Date of Flow Test: From 1/22/59 To 1/30/59 \* Date S.I.P. Measured 12/29/57  
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: \_\_\_\_\_ = \_\_\_\_\_ psi (f)  
(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) 975 psig + 12 = 987 psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 987 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ °F + 460 = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) = 494 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{171} \text{ MCF/da}$   
(integrated)

DELIVERABILITY CALCULATION

D = Q 171  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{.8306}{.8540} \right]^n = \text{146} \text{ MCF/da.}$

SUMMARY

P<sub>c</sub> = 987 psia  
Q = 171 Mcf/day  
P<sub>w</sub> = 896 psia  
P<sub>d</sub> = 494 psia  
D = 146 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 4)	P <sub>w</sub>
			Friction Negligible		

D at 250 = 174

