

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)

74-686

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

Operator El Paso Natural Gas Lease Jicarilla Well No. 6-E  
Unit P Sec. 20 Twp. 25 Rge. 4 Pay Zone: From 3322 To 3358  
Casing: OD 5-1/2 WT. 15.5 Set At 3447 Tubing: OD 2" WT. 4.7 T. Perf. 3316  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .694 Estimated \_\_\_\_\_  
Date of Flow Test: From 9/21/58 To 10/1/58 \* Date S.I.P. Measured 5/23/58 (27 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: \_\_\_\_\_ = \_\_\_\_\_ psi (f)  
(b) - (c) Flow through tubing: (a) - (c) Flow through casing  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (g)  
Square root chart average reading ( 7.40 ) <sup>2</sup> x sp. const. 5 = 274 psia (g)  
Corrected seven day avge. meter press. (P<sub>f</sub>) (g) + (e) = 274 psia (h)  
P<sub>t</sub> = (h) + (f) = 274 psia (i)  
Wellhead casing shut-in pressure (Dwt) 988 psig + 12 = 1000 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 988 psig + 12 = 1000 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1000 psia (l)  
Flowing Temp. (Meter Run) 69 °F + 460 = 529 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) = 500 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right)^* = \text{2912} \text{ MCF/da}$   
(integrated)  $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 2912  $\left[ \frac{(P_c^2 - P_d^2) = \text{750000}}{(P_c^2 - P_w^2) = \text{809484}} \right]^n \frac{.9265}{.9371} = \text{2729} \text{ MCF/da.}$

SUMMARY

P<sub>c</sub> = 1000 psia  
Q = 2912 Mcf/day  
P<sub>w</sub> = 436 psia  
P<sub>d</sub> = 500 psia  
D = 2729 Mcf/day

CORRECTED COPY

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 i)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
2301	.154	749.610	115,440	75,076	190,516	436

D at 250 = 2929

OK

