

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 Large Canyon Ext. Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease Harvey State Well No. 8

Unit L Sec. 32 Twp. 25N Rge. 6W Pay Zone: From 2493 To 2566

Casing: OD 5 1/2 WT. 15.50 Set At 2660 Tubing: OD None WT. No tubing. T. Perf. \_\_\_\_\_

Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured .680 Estimated \_\_\_\_\_

Date of Flow Test: From 2/8 To 2/27/57 \* Date S.I.P. Measured \_\_\_\_\_

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 ( 7.65 ) <sup>2</sup> x sp. const. 5 \_\_\_\_\_ = 293 psia (g)

Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 293 psia (h)

P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 293 psia (i)

Wellhead casing shut-in pressure (Dwt) 665 psig + 12 = 677 psia (j)

Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (k)

P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 677 psia (l)

Flowing Temp. (Meter Run) 45 °F + 460 \_\_\_\_\_ = 505 ° Abs (m)

P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 339 psia \* (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right)^* = \text{119} \text{ MCF/da}$   
(integrated)  $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 119  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{343,408}{372,480} \right]^n \frac{.9219}{.9332} = \text{111} \text{ MCF/da.}$

SUMMARY

P<sub>c</sub> = 677 psia  
Q = 119 Mcf/day  
P<sub>w</sub> = 293 psia  
P<sub>d</sub> = 339 psia  
D = 111 Mcf/day

Company El Paso Natural Gas Company  
By Original Signed  
Title Lewis D. Galloway  
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>
			FRICION NEGLECTED			

D @ 250 = 124



SECRET

MEMORANDUM FOR THE SECRETARY OF DEFENSE

SUBJECT: [Illegible]

1. [Illegible]

2. [Illegible]

3. [Illegible]

4. [Illegible]

5. [Illegible]

6. [Illegible]

7. [Illegible]

8. [Illegible]

9. [Illegible]



10. [Illegible]