

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 Tapacito Formation Pictured Cliffs County Rio Arriba  
Purchasing Pipeline El Paso Natural Gas Date Test Filed \_\_\_\_\_  
Operator El Paso Natural Gas Lease San Juan 27-4 Unit Well No. No. 10  
Unit G Sec. 32 Twp. 27N Rge. 4W Pay Zone: From 3671 To 3738  
Casing: OD 5-1/2" WT. 15.5 Set At 3753 Tubing: OD 2" WT. 4.7 T. Perf. 3672  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .683 Estimated \_\_\_\_\_  
Date of Flow Test: From 3/9/58 To 3/17/58 \* Date S.I.P. Measured 10-2-57  
Meter Run Size \_\_\_\_\_ Orifice Size .50 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 (7.95) <sup>2</sup> x sp. const. 10 = 632 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 632 psia (h)  
P<sub>t</sub> = (h) + (f) = 632 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1045 psig + 12 = 1057 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 871 psig + 12 = 883 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 883 psia (l)  
Flowing Temp. (Meter Run) 50 °F + 460 = 510 ° Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) = 442 psia (n)

FLOW RATE CALCULATION

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{120}$  MCF/da  
(integrated)

DELIVERABILITY CALCULATION

D = Q 120  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{1.5366}{1.4410} = \underline{173}$  MCF/da.

SUMMARY

P<sub>c</sub> = 883 psia  
Q = 120 Mcf/day  
P<sub>w</sub> = 632 psia  
P<sub>d</sub> = 442 psia  
D = 173 Mcf/day

Company El Paso Natural Gas  
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> )<br>R <sup>2</sup> | P <sub>t</sub> <sup>2</sup><br>(Column i) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|----|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
|    |                      |                                 | Friction Negligible                                                    |                                           |                                              |                |

D at 250 = 204



|                                    |          |          |
|------------------------------------|----------|----------|
| <b>OIL CONSERVATION COMMISSION</b> |          |          |
| <b>AZTEC DISTRICT OFFICE</b>       |          |          |
| No. Copies Received                | <b>3</b> |          |
| <b>DISTRIBUTION</b>                |          |          |
| Operator                           |          |          |
| Personnel                          | <b>1</b> |          |
| Personnel                          |          |          |
| State Labor Union                  |          |          |
| U. S. G. S.                        | <b>1</b> |          |
| Transporter                        |          |          |
| File                               | <b>1</b> | <b>✓</b> |
|                                    |          |          |