

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

Operator El Paso Natural Gas Lease San Juan 28-7 Unit Well No. 36  
Unit N Sec. 31 Twp. 28 Rge. 7 Pay Zone: From 2695 To 2760  
Casing: OD 5 1/2 WT. 15.5 Set At 2695 Tubing: OD 1 WT. 1.68 T. Perf. 2703  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured .625 Estimated \_\_\_\_\_  
Date of Flow Test: From 7/23 To 7/31 \* Date S.I.P. Measured 5/18/55  
Meter Run Size 4 Orifice Size \_\_\_\_\_ 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 (6.95) <sup>2</sup> x sp. const. 5 \_\_\_\_\_ = 242 psia (g)  
Corrected seven day avge. meter press. (P<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 242 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 242 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1008 psig + 12 = 1020 psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = 1020 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1020 psia (l)  
Flowing Temp. (Meter Run) 61 °F + 460 \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 510 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 515  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{780,380}{981,836} = .79473$   $\frac{.79473}{.8227} = \text{_____ MCF/da.}$

SUMMARY

P<sub>c</sub> = 1020 psia  
Q = 515 Mcf/day  
P<sub>w</sub> = 242 psia  
P<sub>d</sub> = 510 psia  
D = 424 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> ) | 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> |
|----|----------------------|---------------------------------|------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
|    |                      |                                 | $\frac{B^2}{R^2}$                                    |                                           |                                              |                |
|    |                      |                                 | Friction Negligible                                  |                                           |                                              |                |

D @ 250 = 510

OK



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