

Initial Deliverability  
TestNEW 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)

72-405-01

Pool Alamosa Formation Mesa Verde County Rio Arriba  
Purchasing Pipeline El Paso Natural Gas Date Test Filed \_\_\_\_\_  
Operator El Paso Natural Gas Lease San Juan 28-7 Well No. 97 (H)  
Unit A Sec. 21 Twp. 27 Rge. 7 Pay Zone: From 3200 To 5750  
Casing: OD 5-1/2 WT. 15.5 Set At 945 Tubing: OD 2 WT. 4.7 T. Perf. 5750  
Produced Through: Casing X Tubing X Gas Gravity: Measured .697 Estimated \_\_\_\_\_  
Date of Flow Test: From 4/21/59 To 4/25/59 \* Date S.I.P. Measured 1/5/59  
Meter Run Size \_\_\_\_\_ Orifice Size .500 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 (\_\_\_\_\_) <sup>2</sup> x sp. const. 10 = 504 psia (g)  
Corrected seven day avge. meter press. (P<sub>f</sub>) (g) + (e) = 504 psia (h)  
P<sub>t</sub> = (h) + (f) = 504 psia (i)  
Wellhead casing shut-in pressure (Dwt) \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (j)  
Wellhead tubing shut-in pressure (Dwt) 995 psig + 12 = 1005 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1005 psia (l)  
Flowing Temp. (Meter Run) 58 °F + 460 = 518 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) = 503 psia (n)

## FLOW RATE CALCULATION

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{91}$  MCF/day  
(integrated)

## DELIVERABILITY CALCULATION

D = Q 91  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{91}$  MCF/day.  
757016 1.0013  
756009 1.0010

## SUMMARY

P<sub>c</sub> = 1005 psia  
Q = 91 Mcf/day  
P<sub>w</sub> = 504 psia  
P<sub>d</sub> = 503 psia  
D = 91 Mcf/day

Company El Paso Natural Gas  
By \_\_\_\_\_  
Title Original Signed  
Witnessed by Harold L. Kendrick  
Company \_\_\_\_\_

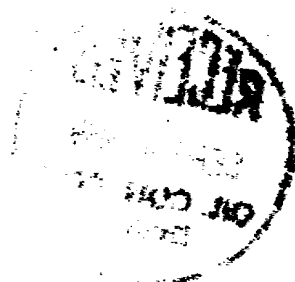
- \* This is date of completion test.  
\* Meter error correction factor

## 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 1) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|----|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
|    |                      |                                 | Friction negligible                                                    |                                           |                                              |                |

D at 500 = 90





UNITED STATES DEPARTMENT OF AGRICULTURE