

Initial Deliverability  
Test

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                      Formation Mesa Verde County Rio Arriba  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed                       
Operator El Paso Natural Gas Lease San Juan 28-6 Well No. 26  
Unit N Sec. 1 Twp. 27N Rge. 6W Pay Zone: From 4855 To 5605  
Casing: OD 7 WT. 23 Set At 4857 Tubing: OD 2 WT. 4.7 T. Perf. 5013  
Produced Through: Casing                      Tubing I Gas Gravity: Measured .725 Estimated                       
Date of Flow Test: From 4/9 To 4/17/57 \* Date S.I.P. Measured 7/19/55  
Meter Run Size 4 Orifice Size .750 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 ( 7.60 )<sup>2</sup> x sp. const. 1000 = 578 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e)                      = 578 psia (h)  
P<sub>t</sub> = (h) + (f)                      = 578 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1072 psig + 12 = 1084 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1063 psig + 12 = 1075 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through                      = 1075 psia (l)  
Flowing Temp. (Meter Run) 74 °F + 460                      =                      °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l)                      = 538 psia (n)

Q = 63 X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{                    } = \text{                    }} \right)^* = \text{                    }$  MCF/da  
(integrated)  $\sqrt{(d)} = \text{                    }$

DELIVERABILITY CALCULATION

D = Q 63  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{866,181}{821,541} \right]^n \frac{1.0543}{1.0404} = \text{66}$  MCF/da.

SUMMARY

P<sub>c</sub> = 1075 psia Company El Paso Natural Gas Company  
Q = 63 Mcf/day By Original Signed  
P<sub>w</sub> = 578 psia Title Lewis D. Galloway  
P<sub>d</sub> = 538 psia Witnessed by                       
D = 66 Mcf/day 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

Test after workover.

D @ 500 = 67

