

Initial Deliverability  
Test  
72924

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 Daria Formation Dakota County San Juan  
Purchasing Pipeline El Paso Natural Gas Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease Bridge Well No. 22  
Unit G Sec. 4 Twp. 31 Rge. 11 Pay Zone: From 7304 To 7504  
Casing: OD 5-1/2 WT. 17 Set At 7530 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 7213  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .652 Estimated \_\_\_\_\_  
Date of Flow Test: From 5/29/61 To 6/6/61 \* Date S.I.P. Measured 9/28/60  
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 (\_\_\_\_\_) <sup>2</sup> x sp. const. \_\_\_\_\_ = 511 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 511 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 511 psia (i)  
Wellhead casing shut-in pressure (Dwt) 2010 psig + 12 = 2022 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 2014 psig + 12 = 2026 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 2026 psia (l)  
Flowing Temp. (Meter Run) 76 °F + 460 \_\_\_\_\_ = 536 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 1013 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{377} \text{ MCF/da}$   
(Integrated)

DELIVERABILITY CALCULATION

D = Q 377  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{.8017}{.8473} = \underline{319} \text{ MCF/da.}$   
3078507  
3839898

SUMMARY

P<sub>c</sub> = 2026 psia Company El Paso Natural Gas  
Q = 377 Mcf/day By \_\_\_\_\_  
P<sub>w</sub> = 515 psia Title \_\_\_\_\_  
P<sub>d</sub> = 1013 psia Witnessed by H. L. Kendrick  
D = 319 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> |
|------|----------------------|---------------------------------|------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| 4722 | 0.291                | 12567                           | 3657                                                                   | 261121                                    | 264778                                       | 515            |

D at 500 = 377



