

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 Undesignated Formation Pictured Cliffs County Bio Arriba  
Purchasing Pipeline El Paso Natural Gas Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease San Juan 28-7 Unit Well No. 73 (P)  
Unit A Sec. 28 Twp. 28 Rge. 7 Pay Zone: From 2680 To 2724  
Casing: OD 7-5/8 WT. 26.40 Set At 2875 Tubing: OD 1-1/4 WT. 4.7 T. Perf. 2744  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .670 Estimated \_\_\_\_\_  
Date of Flow Test: From 12-31-57 To 1-9-58 \* Date S.I.P. Measured 9-17-57 (12 days)  
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 (7.45) <sup>2</sup> x sp. const. 10 \_\_\_\_\_ = 555 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 555 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 555 psia (i)  
Wellhead casing shut-in pressure (Dwt) 939 psig + 12 = 951 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 939 psig + 12 = 951 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 951 psia (l)  
Flowing Temp. (Meter Run) 53 °F + 460 \_\_\_\_\_ = 513 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 476 psia (n)

FLOW RATE CALCULATION

Q = \_\_\_\_\_ X  $\left( \frac{\sqrt{c}}{\sqrt{d}} \right) = \underline{117}$  MCF/da  
(integrated)

DELIVERABILITY CALCULATION

D = Q 117  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{131}$  MCF/da.  
 $\frac{677,825}{595,338}$   $\frac{1.1385}{1.1167}$

PG producing into MV system.

SUMMARY

P<sub>c</sub> = 951 psia Company El Paso Natural Gas  
Q = 117 Mcf/day By \_\_\_\_\_  
P<sub>w</sub> = 556 psia Title Lewis D. Galloway  
P<sub>d</sub> = 476 psia Witnessed by \_\_\_\_\_  
D = 131 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> ) | P <sub>t</sub> <sup>2</sup> | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|------|----------------------|---------------------------------|--|-----------------------------|--|----------------|
|      |                      |                                 | R <sup>2</sup>                                       | (Column 1)                  |  |                |
| 1838 | .125                 | 8,300                           | 1,038  | 308,025                     | 308,063                                      | 556            |

D at 250 = 156



