

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 Blanco Formation Mesa Verde County Rio Arriba  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Co. Lease San Juan 29-7 Unit Well No. 47  
Unit B Sec. 2 Twp. 29 Rge. 7 Pay Zone: From 5190 To 6055  
Casing: OD 7 WT. 20 & 23 Set At 5150 Tubing: OD 2 WT. 4.7 T. Perf. 5902  
Produced Through: Casing \_\_\_\_\_ Tubing 1 Gas Gravity: Measured \_\_\_\_\_ Estimated .665  
Date of Flow Test: From 1/31 To 2/8/56 \* Date S.I.P. Measured 9/14/1955  
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 ( 7.55 )<sup>2</sup> x sp. const. 10 \_\_\_\_\_ = 570 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 570 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 570 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1063 psig + 12 = 1075 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1074 psig + 12 = 1086 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1086 psia (l)  
Flowing Temp. (Meter Run) 56 °F + 460 \_\_\_\_\_ = 516 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) \_\_\_\_\_ = 543 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{409} \text{ MCF/da}$   
(integrated)

D = Q 409  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{421} \text{ MCF/da.}$   
 $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{884,547}{850,785}$  n  $\frac{1.0397}{1.0296}$

SUMMARY  
P<sub>c</sub> = 1086 psia  
Q = 409 Mcf/day  
P<sub>w</sub> = 573 psia  
P<sub>d</sub> = 543 psia  
D = 421 Mcf/day

Company El Paso Natural Gas Company  
By Original Signed  
Title Lewis D. Galloway  
Witnessed by \_\_\_\_\_  
Company \_\_\_\_\_

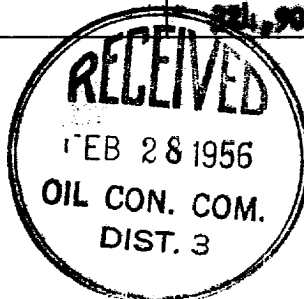
- \* This is date of completion test.
- \* Meter error correction factor

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> (Column i)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
<u>3978</u>	<u>.251</u>	<u>14,704</u>	<u>3,711</u>	<u>321,900</u>	<u>328,611</u>	<u>573</u>

D @ 500 = 431

OK





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