

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 Hilanco Formation Mesa Verde County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Co. Lease Heaton Well No. 5  
Unit M Sec. 8W28 Twp. 31N Rge. 11W Pay Zone: From 4674 To 4795  
Casing: OD 5 1/2 WT. 15.50 Set At 4948 Tubing: OD 2 WT. 4.7 T. Perf. 4775  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .690 Estimated \_\_\_\_\_  
Date of Flow Test: From 6/22 To 6/30 \* Date S.I.P. Measured 3/28/56  
Meter Run Size 4 Orifice Size \_\_\_\_\_ Type Chart 84. 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 ( 7.30 ) <sup>2</sup> x sp. const. 10 = 533 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 533 psia (h)  
P<sub>t</sub> = (h) + (f) = 533 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1055 psig + 12 = 1067 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1053 psig + 12 = 1065 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1065 psia (l)  
Flowing Temp. (Meter Run) 87 °F + 460 = 547 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) = 533 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{1166} \text{ MCF/da}$   
(integrated)

DELIVERABILITY CALCULATION

D = Q 1166  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{850,136}{824,536} \right]^n \frac{1.03104}{1.02322} = \underline{1193} \text{ MCF/da.}$

SUMMARY

P<sub>c</sub> = 1065 psia Company El Paso Natural Gas Company  
Q = 1166 Mcf/day By Original Signer  
P<sub>w</sub> = 557 psia Title \_\_\_\_\_  
P<sub>d</sub> = 533 psia Witnessed by Lewis D. Galloway  
D = 1193 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> ) R <sup>2</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>3295</u>	<u>.213</u>	<u>120.187</u>	<u>25,600</u>	<u>284,089</u>	<u>309,689</u>	<u>557</u>

D @ 500 = 1189



# OIL CONSERVATION COMMISSION

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