

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)

70-422-01

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

Operator El Paso Natural Gas Lease Hughes Well No. 7  
Unit M Sec. 29 Twp. 29 Rge. 08 Pay Zone: From 4590 To 5233  
Casing: OD 7" WT. 20 Set At 4522 Tubing: OD 2" WT. 4.7 T. Perf. 4680  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .687 Estimated \_\_\_\_\_  
Date of Flow Test: From 6/7/58 To 6/15/58 \* Date S.I.P. Measured 7/23/57 (7)  
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 ( 7.2 )<sup>2</sup> x sp. const. 10 \_\_\_\_\_ = 518 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 518 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 518 psia (i)  
Wellhead casing shut-in pressure (Dwt) \_\_\_\_\_ 796 psig + 12 = 808 psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ 978 psig + 12 = 980 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 980 psia (l)  
Flowing Temp. (Meter Run) \_\_\_\_\_ 75 °F + 460 \_\_\_\_\_ = 435 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 490 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} \quad \sqrt{(d)}} \right)^* = \underline{146}$  MCF/da  
(integrated)

DELIVERABILITY CALCULATION

D = Q 146  $\left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.0407^{.75}}{1.0304} = \underline{150}$  MCF/da.

SUMMARY

P<sub>c</sub> = 980 psia Company El Paso Natural Gas  
Q = 146 Mcf/day By Original Signed  
P<sub>w</sub> = 518 psia Title Harold L. Kendrick  
P<sub>d</sub> = 490 psia Witnessed by \_\_\_\_\_  
D = 150 Mcf/day Company \_\_\_\_\_

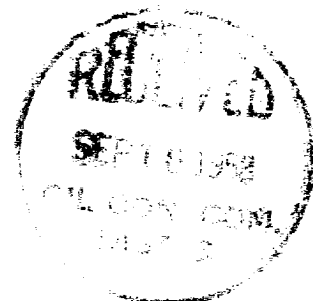
\* This is date of completion test.  
\* Meter error correction factor

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>
			<b>Friction Negligible</b>			

D at 500 = 147

Tubing perforated May 7, 1958



X