

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 Fulcher Kutz Pictured Cliff Formation Pictured Cliff County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_  
Operator El Paso Natural Gas Company Lease Knauff Well No. 4  
Unit K Sec. 31 Twp. 28N Rge. 10W Pay Zone: From 1828 To 1839  
Casing: OD 5½ WT. 14 Set At 1826 Tubing: OD 1" WT. 1.7 T. Perf. 1811  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured \_\_\_\_\_ Estimated .680  
Date of Flow Test: From 4-30-56 To 5-8-56 \* Date S.I.P. Measured \_\_\_\_\_  
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 ( 6.75 )<sup>2</sup> x sp. const. 5 \_\_\_\_\_ = 228 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 228 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 228 psia (i)  
Wellhead casing shut-in pressure (Dwt) 508 psig + 12 = 520 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 508 psig + 12 = 520 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 520 psia (l)  
Flowing Temp. (Meter Run) 62 °F + 460 \_\_\_\_\_ = \_\_\_\_\_ °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) \_\_\_\_\_ = 260 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{247} \text{ MCF/da}$   
(integrated)

DELIVERABILITY CALCULATION

D = Q 247  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{232} \text{ MCF/da.}$   
 $\frac{202,800}{218,416}$   $\frac{.9285}{.93881}$

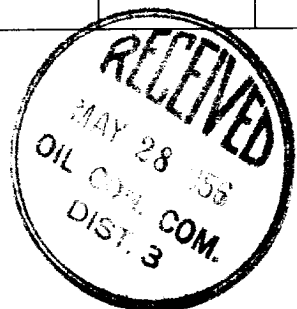
SUMMARY

P<sub>c</sub> = 520 psia Company El Paso Natural Gas Company  
Q = 247 Mcf/day By Lewis D. Galloway  
P<sub>w</sub> = 228 psia Title \_\_\_\_\_  
P<sub>d</sub> = 260 psia Witnessed by \_\_\_\_\_  
D = 232 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>
Friction Negligible						





OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received <u>3</u>		
DISTRIBUTION		
	NO. FURNISHED	
Operator		
Santa Fe	<u>1</u>	
Proration Office		
State Land Office		
U. S. G. S.	<u>1</u>	
Transporter		
File	<u>1</u>	<input checked="" type="checkbox"/>