

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)

71-208

Pool Ballard Formation Pictured Cliffs County San Juan  
Purchasing Pipeline El Paso Natural Gas Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease Huerfano Unit Well No. 32-A  
Unit I Sec. 23 Twp. 26 Rge. 9 Pay Zone: From 2049 To 2095  
Casing: OD 5-1/2 WT. 14 Set At 2049 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2053  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured .675 Estimated \_\_\_\_\_  
Date of Flow Test: From 9/21/58 To 9/29/58 \* Date S.I.P. Measured 7/16/58  
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 ( 6.60 ) <sup>2</sup> x sp. const. 500 = 218 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 218 psia (h)  
P<sub>t</sub> = (h) + (f) = 218 psia (i)  
Wellhead casing shut-in pressure (Dwt) 504 psig + 12 = 516 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 504 psig + 12 = 516 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 516 psia (l)  
Flowing Temp. (Meter Run) 60 °F + 460 = 520 °Abs (m)  
P<sub>d</sub> = ½ P<sub>c</sub> = ½ (l) = 258 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{_____}}{\sqrt{(d)}} = \text{_____}} \right)^* = \text{394} \text{ MCF/da}$   
(integrated)

DELIVERABILITY CALCULATION

D = Q 394  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{199,692}{218,732} \cdot \frac{.9129}{.9254} = \text{365} \text{ MCF/da.}$

SUMMARY

P<sub>c</sub> = 516 psia Company El Paso Natural Gas  
Q = 394 Mcf/day By Original Signed  
P<sub>w</sub> = 218 psia Title Harold L. Kendrick  
P<sub>d</sub> = 258 psia Witnessed by \_\_\_\_\_  
D = 365 Mcf/day Company \_\_\_\_\_

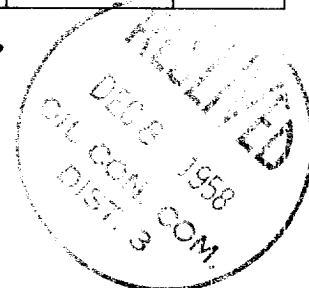
\* This is date of completion test.  
\* Meter error correction factor

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			

D at 250 = 361

Tubing re-run with differential valve 9/3/58.



OK