

**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)

70-266

Pool Klamath - NW Formation N. Verde County El Arriba  
Purchasing Pipeline El Paso Natural Gas Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease Whitley Well No. 4-B  
Unit N Sec. 28 Twp. 30N Rge. 7W Pay Zone: From 4930 To 4900  
Casing: OD 5-1/2 WT. \_\_\_\_\_ Set At 4660 Tubing: OD 2" WT. 4.7 T. Perf. 4900  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .699 Estimated \_\_\_\_\_  
Date of Flow Test: From 8/30/58 To 9/7/58 \* Date S.I.P. Measured 3/30/58 (7 days)  
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: \_\_\_\_\_ = \_\_\_\_\_ psi (f)  
(b) - (c) Flow through tubing: (a) - (c) Flow through casing  
Seven day average static meter pressure (from meter chart):  
Normal chart average reading \_\_\_\_\_ psig + 12 = \_\_\_\_\_ psia (g)  
Square root chart average reading (6.85) <sup>2</sup> x sp. const. 1000 = 469 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 469 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 469 psia (i)  
Wellhead casing shut-in pressure (Dwt) 970 psig + 12 = 982 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 623 psig + 12 = 635 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 982 + psia (l)  
Flowing Temp. (Meter Run) 80 °F + 460 \_\_\_\_\_ = 540 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 491 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left( \frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right) = \text{171 MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ 171 } \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{723243}{743794} \right]^n \frac{.9723}{.9792} = \text{167 MCF/day}$$

SUMMARY

P<sub>c</sub> = 982 + psia  
Q = 171 Mcf/day  
P<sub>w</sub> = 470 psia  
P<sub>d</sub> = 491 psia  
D = 167 Mcf/day

Company El Paso Natural Gas  
By Original Signed  
Title Harold L. Kendrick  
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> )<br>F <sup>2</sup> | P <sub>t</sub> <sup>2</sup><br>(Column i) | P <sub>t</sub> <sup>2</sup> + R <sup>2</sup> | P <sub>w</sub> |
|------|----------------------|---------------------------------|--------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------|----------------|
| 3425 | .220                 | 2.586                           | 569                                                                      | 219961                                    | 220530                                       | 470            |

+ Tubing perforated 8/12/58

D at 500 = 164



