

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)

71-910-01

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

Operator El Paso Natural Gas Lease San Juan 28-7 Unit Well No. 52  
Unit B Sec. 24 Twp. 28 Rge. 7 Pay Zone: From 4980 To 5624  
Casing: OD 5-1/2 WT. 15.5 Set At 5717 Tubing: OD 2 WT. 4.7 T. Perf. 5795  
Produced Through: Casing X Tubing \_\_\_\_\_ Gas Gravity: Measured .672 Estimated \_\_\_\_\_  
Date of Flow Test: From 5/30/59 To 6/7/59 \* Date S.I.P. Measured 9/6/58  
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 (7.05) <sup>2</sup> x sp. const. 10 \_\_\_\_\_ = 497 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 497 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 497 psia (i)  
Wellhead casing shut-in pressure (Dwt) \_\_\_\_\_ 655 psig + 12 = \_\_\_\_\_ psia (j)  
Wellhead tubing shut-in pressure (Dwt) \_\_\_\_\_ 389 psig + 12 = \_\_\_\_\_ psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 667 psia (l)  
Flowing Temp. (Meter Run) 85 °F + 460 \_\_\_\_\_ = 525 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 334 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(Integrated)} \times \left( \frac{\sqrt{(c)} = \text{_____} = \text{_____}}{\sqrt{(d)} = \text{_____}} \right)^* = \text{442 MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \text{ 442 } \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1.6845}{1.4780} = \text{653 MCF/day}$$

SUMMARY

P<sub>c</sub> = 667 psia Company El Paso Natural Gas  
Q = 442 Mcf/day By Original Signed  
P<sub>w</sub> = 497 psia Title Harold L. Kendrick  
P<sub>d</sub> = 334 psia Witnessed by \_\_\_\_\_  
D = 653 Mcf/day Company \_\_\_\_\_

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

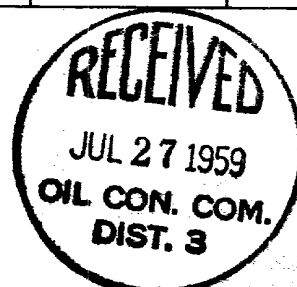
REMARKS OR FRICTION CALCULATIONS

G <sub>L</sub>	(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 500 = 416

Piston, 1/21/59

OK



10-10-10 10-10-10 10-10-10 10-10-10 10-10-10

10-10-10 10-10-10 10-10-10 10-10-10 10-10-10

10-10-10 10-10-10 10-10-10 10-10-10 10-10-10

10-10-10 10-10-10 10-10-10 10-10-10 10-10-10

10-10-10

10-10-10

10-10-10 10-10-10

10-10-10  
10-10-10  
10-10-10  
10-10-10  
10-10-10  
10-10-10  
10-10-10  
10-10-10  
10-10-10

10-10-10

10-10-10

10-10-10

10-10-10

10-10-10

10-10-10

10-10-10

10-10-10 10-10-10

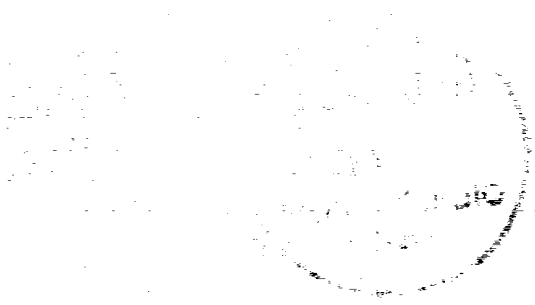
10-10-10

10-10-10

10-10-10  
10-10-10  
10-10-10  
10-10-10  
10-10-10

10-10-10 10-10-10

10-10-10 10-10-10



10-10-10 10-10-10