

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

Operator El Paso Natural Gas Lease Abraham Well No. 1-C  
Unit G Sec. 15 Twp. 30 Rge. 6 Pay Zone: From 5122 To 5502  
Casing: OD 5-1/2 WT. 15.50 Set At 5663 Tubing: OD 2" WT. 4.7 T. Perf. 5504  
Produced Through: Casing 7-5/8 Tubing 3338 Gas Gravity: Measured .580 Estimated \_\_\_\_\_  
Date of Flow Test: From 11/23 To 11/30 \* Date S.I.P. Measured 8/20/57 (18 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:  
(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) 1115 psig + 12 = 1127 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1046 psig + 12 = 1058 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1058 psia (l)  
Flowing Temp. (Meter Run) 58 °F + 460 = 518 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) = 529 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{684} \text{ MCF/da}$   
(integrated)

DELIVERABILITY CALCULATION

D = Q 684  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{839,523}{863,794} \cdot \frac{.9719}{.9788} = \text{669} \text{ MCF/da.}$

SUMMARY

P<sub>c</sub> = 1058 psia  
Q = 684 Mcf/day  
P<sub>w</sub> = 506 psia  
P<sub>d</sub> = 529 psia  
D = 669 Mcf/day  
Company El Paso Natural Gas  
By Original Signed  
Title Lewis D. Galloway  
Witnessed by \_\_\_\_\_  
Company \_\_\_\_\_

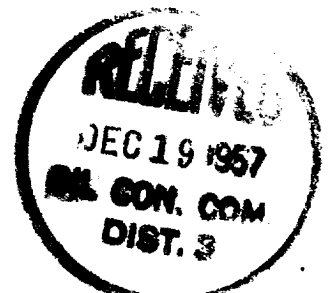
\* This is date of completion test.

\* 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> ) 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>
3192	.207	41.358	8,561	247,009	255,570	506

D at 500 = 675



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