

Initial Deliverability  
Test

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 Alamosa Formation Mesa Verde County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_  
Operator El Paso Natural Gas Lease Staray Well No. 4-B  
Unit 1 Sec. 11 Twp. 30N Rge. 11W Pay Zone: From 4592 To 4664  
Casing: OD 5 1/2 WT. 15.5 Set At 4762 Tubing: OD 2 WT. 4.7 T. Perf. 4629  
Produced Through: Casing \_\_\_\_\_ Tubing 1 Gas Gravity: Measured .685 Estimated \_\_\_\_\_  
Date of Flow Test: From 3/8 To 3/27/57 \* Date S.I.P. Measured \_\_\_\_\_  
Meter Run Size \_\_\_\_\_ Orifice Size 1.500 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 (7.35) <sup>2</sup> x sp. const. 1000 \_\_\_\_\_ = 540 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) \_\_\_\_\_ = 540 psia (h)  
P<sub>t</sub> = (h) + (f) \_\_\_\_\_ = 540 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1053 psig + 12 = 1067 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1053 psig + 12 = 1067 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through \_\_\_\_\_ = 1067 psia (l)  
Flowing Temp. (Meter Run) 71 °F + 460 \_\_\_\_\_ = 531 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) \_\_\_\_\_ = 534 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right) = \text{1193} \text{ MCF/da}$   
(integrated)  $\sqrt{(d)}$  \_\_\_\_\_

DELIVERABILITY CALCULATION

D = Q 1193  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{1.0394}{1.0694} = \text{1224} \text{ MCF/da.}$   
 $\frac{853,313}{820,970}$

SUMMARY

P<sub>c</sub> = 1067 psia  
Q = 1193 Mcf/day  
P<sub>w</sub> = 543 psia  
P<sub>d</sub> = 534 psia  
D = 1224 Mcf/day

Company El Paso Natural Gas Company  
By \_\_\_\_\_  
Title \_\_\_\_\_  
Witnessed by \_\_\_\_\_  
Company \_\_\_\_\_

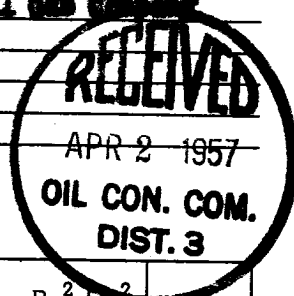
\* This is date of completion test.  
\* Meter error correction factor

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> + 12 P <sub>w</sub>
3171	.006	125.821	25,919	291,600	317,519 563

D @ 500 = 1224

OK



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