

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 Blanco Formation Mesa Verde County San Juan  
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed \_\_\_\_\_

Operator El Paso Natural Gas Lease Indrick Well No. 8  
Unit H Sec. 31 Twp. 30N Rge. 10W Pay Zone: From 4717 To 4912  
Casing: OD 5 1/2 WT. 15.5 Set At 5007 Tubing: OD 2 WT. 4.7 T. Perf. 4921  
Produced Through: Casing \_\_\_\_\_ Tubing X Gas Gravity: Measured .700 Estimated \_\_\_\_\_  
Date of Flow Test: From 3/8/57 To 3/17/57 \* Date S.I.P. Measured 7/6/56  
Meter Run Size \_\_\_\_\_ Orifice Size 1.750 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 ( 6.80 )<sup>2</sup> x sp. const. 1000 = 462 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 462 psia (h)  
P<sub>t</sub> = (h) + (f) = 462 psia (i)  
Wellhead casing shut-in pressure (Dwt) 973 psig + 12 = 985 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 973 psig + 12 = 985 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 985 psia (l)  
Flowing Temp. (Meter Run) 65 °F + 460 = 525 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) = 493 psia (n)

Q = \_\_\_\_\_ X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right)^* = \underline{928}$  MCF/da  
(integrated)  $\sqrt{(d)} = \dots = \dots$

DELIVERABILITY CALCULATION

D = Q 928  $\left[ \frac{(P_c^2 - P_d^2) = \underline{727,176}}{(P_c^2 - P_w^2) = \underline{739,881}} \right]^n \frac{.9828}{.9871} = \underline{916}$  MCF/da.

SUMMARY

P<sub>c</sub> = 985 psia Company El Paso Natural Gas Company  
Q = 928 Mcf/day By \_\_\_\_\_  
P<sub>w</sub> = 480 psia Title \_\_\_\_\_  
P<sub>d</sub> = 493 psia Witnessed by \_\_\_\_\_  
D = 916 Mcf/day Company \_\_\_\_\_

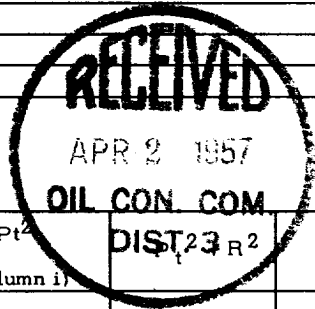
- \* This is date of completion test.
- \* Meter error correction factor

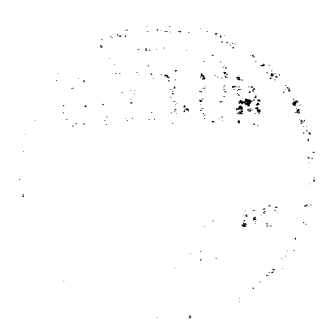
REMARKS OR FRICTION CALCULATIONS

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)	DIST. R <sup>2</sup>	P <sub>w</sub>
<u>3445</u>	<u>.222</u>	<u>76.126</u>	<u>16,900</u>	<u>213,444</u>	<u>230,344</u>	<u>480</u>

D @ 500 = 883

*PK*





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