

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 San Juan 28-5 Well No. 11
Unit K Sec. 33 Twp. 28N Rge. 5W Pay Zone: From 5202 To 5828
Casing: OD 7-5/8 WT. 26.4 Set At 3666 Tubing: OD 2" WT. 4.7 T. Perf. 5746
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 12-8-57 To 12-16-57 * Date S.I.P. Measured 4-17-57 (8 days)
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____
5-1/2" liner. 3563 - 5846

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 (_____) ² 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 (7.50) ² x sp. const. 10 = 563 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 563 psia (h)
P_t = (h) + (f) = 563 psia (i)
Wellhead casing shut-in pressure (Dwt) 1105 psig + 12 = 1117 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1105 psig + 12 = 1117 psia (k)
P_c = (j) or (k) whichever well flowed through = 1117 psia (l)
Flowing Temp. (Meter Run) 66 °F + 460 = 526 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 559 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{1164} \text{ MCF/da}$
(Integrated)

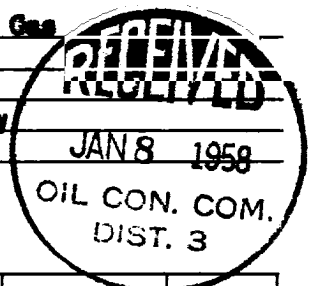
DELIVERABILITY CALCULATION

D = Q 1164 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1197} \text{ MCF/da.}$
 $\frac{1.0382}{1.0285}$

SUMMARY

P_c = 1117 psia
Q = 1164 Mcf/day
P_w = 589 psia
P_d = 559 psia
D = 1197 Mcf/day

Company El Paso Natural Gas
By _____
Title Original Signed
Witnessed by Lewis D. Galloway
Company _____



REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3965</u>	<u>.250</u>	<u>119.771</u>	<u>29.943</u>	<u>316,969</u>	<u>346,912</u>	<u>589</u>

D at 500 = 1214

OK