

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. 22
Unit M Sec. 21 Twp. 28 Rge. 5 Pay Zone: From 5292 To 5822
Casing: OD 5-1/2 WT. 15.5 Set At 5890 Tubing: OD 2 WT. 4.7 T. Perf. 5778
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 11/8/57 To 11/16/57 * Date S.I.P. Measured 5/23/57 (10 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 (_____) 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 (7.45) ² x sp. const. .10 _____ = 555 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 555 psia (h)
P_t = (h) + (f) _____ = 555 psia (i)
Wellhead casing shut-in pressure (Dwt) 1097 psig + 12 = 1109 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1097 psig + 12 = 1109 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1109 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 _____ = 530 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 555 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____} = \text{_____} = \text{_____} = \text{648 MCF/da}$$

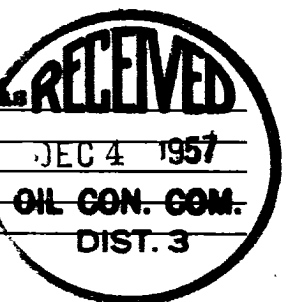
DELIVERABILITY CALCULATION

$$D = Q \times \frac{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^n}{\frac{1.0102}{1.0076}} = \text{648} \times \frac{\left(\frac{921,856}{912,504} \right)^n}{\frac{1.0102}{1.0076}} = \text{653 MCF/da.}$$

SUMMARY

P_c = 1109 psia
Q = 648 Mcf/day
P_w = 563 psia
P_d = 555 psia
D = 653 Mcf/day

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



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

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
3987	.252	37.112	9,352	308,025	317,377	563

D at 500 = 672