

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)

72-131-01

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. 27
Unit B Sec. 15 Twp. 28 Rge. 5 Pay Zone: From 5786 To 5936
Casing: OD 5-1/2 WT. 15.5 Set At 6020 Tubing: OD 2" WT. 4.7 T. Perf. 5896
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 664 Estimated _____
Date of Flow Test: From 7/22/58 To 7/30/58 * Date S.I.P. Measured 5/21/58
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 (7.10) ² x sp. const. 10 = 504 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 504 psia (h)
P_t = (h) + (f) _____ = 504 psia (i)
Wellhead casing shut-in pressure (Dwt) 1120 psig + 12 = 1132 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1121 psig + 12 = 1133 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1133 psia (l)
Flowing Temp. (Meter Run) 87 °F + 460 _____ = 547 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 567 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{229}{1} = 229 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{229}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n} = \frac{229}{\left[\frac{962200}{1028524} \right]^{.9355/.9512}} = 218 \text{ MCF/da.}$$

SUMMARY

P_c = 1133 psia
Q = 229 Mcf/day
P_w = 505 psia
P_d = 567 psia
D = 218 Mcf/day

Company El Paso Natural Gas
By Harold L. Penland
Title _____
Witnessed by _____
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 / R ²	P _t ² / (Column i)	P _t ² + R ²	P _w
3915	.248	4.635	1,149	254,016	255165	505

D at 500 = 228

OK



11-10-40 40 days
1961 10 10 10 10

11-10-40 40 days

11-10-40 40 days

11-10-40 40 days

11-10-40 40 days