

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 S. Blanco Undesignated Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 28-6 Unit Well No. 68 (P)

Unit L Sec. 13 Twp. 27 Rge. 6 Pay Zone: From 3060 To 3116

Casing: OD 7-5/8 WT. 26.4 Set At 3255 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 3080

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .632 Estimated _____

Date of Flow Test: From 12-31-57 To 1-9-58 * Date S.I.P. Measured 9-17-57 (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 (7.05) ² x sp. const. 10 _____ = 497 psia (g)

Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = 497 psia (h)

P_t = (h) + (f) _____ = 497 psia (i)

Wellhead casing shut-in pressure (Dwt) 1091 psig + 12 = 1103 psia (j)

Wellhead tubing shut-in pressure (Dwt) 1091 psig + 12 = 1103 psia (k)

P_c = (j) or (k) whichever well flowed through _____ = 1103 psia (l)

Flowing Temp. (Meter Run) 53 °F + 460 _____ = 513 ° Abs (m)

P_d = ½ P_c = ½ (l) _____ = 552 psia (n)

$$Q = \text{(integrated)} \times \left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{174} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{174} \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{.9428}{.9512} = \underline{166} \text{ MCF/da.}$$

PC producing into MV system.

SUMMARY

P_c = 1103 psia
Q = 174 Mcf/day
P_w = 499 psia
P_d = 552 psia
D = 166 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Lewis D. Galloway
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 (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>1947</u>	<u>.132</u>	<u>18.353</u>	<u>2.423</u>	<u>247,009</u>	<u>249,432</u>	<u>499</u>

D at 250 = 201

