

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 Mesavarda County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease Rincón Well No. 78
Unit G Sec. 14 Twp. 27 Rge. 7 Pay Zone: From 4818 To 5526
Casing: OD 5 1/2 WT. 15.5 Set At 5600 Tubing: OD 2 WT. 4.7 T. Perf. 5491
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 700 Estimated _____
Date of Flow Test: From 11/22/56 To 11/30/56 * Date S.I.P. Measured 8/9/56 (13 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 (8.05) ² x sp. const. 10 _____ = 648 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 648 psia (h)
P_t = (h) + (f) _____ = 648 psia (i)
Wellhead casing shut-in pressure (Dwt) 1099 psig + 12 = 1111 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1092 psig + 12 = 1104 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1104 psia (l)
Flowing Temp. (Meter Run) 52 °F + 460 _____ = 512 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 552 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right) = \underline{390}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 390 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1.33}$ MCF/day
914,112 1.1489
795,631 1.1097

SUMMARY

P_c = 1104 psia Company El Paso Natural Gas Company
Q = 390 Mcf/day By L. D. Galloway
P_w = 651 psia Title Sr. Gas Engineer
P_d = 552 psia Witnessed by _____
D = 433 Mcf/day 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>3844</u>	<u>.244</u>	<u>13.447</u>	<u>3281</u>	<u>419904</u>	<u>423185</u>	<u>651</u>

D @ 500 = 446

