

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 South Elmore Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Rincon Well No. 59
Unit 1 Sec. 24 Twp. 27 Rge. 7 Pay Zone: From 1134 To 1166
Casing: OD 5 1/2 WT. 15.5 Set At 3227 Tubing: OD 2 WT. 4.7 T. Perf. 1129
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .715 Estimated _____
Date of Flow Test: From 1/16/57 To 1/24 * Date S.I.P. Measured 10/22/56
Meter Run Size 4 Orifice Size _____ Type Chart 29. Rt. Type Taps Flange

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 (7.70) ² x sp. const. 5 _____ = 296 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 296 psia (h)
P_t = (h) + (f) _____ = 296 psia (i)
Wellhead casing shut-in pressure (Dwt) 953 psig + 12 = 953 psia (j)
Wellhead tubing shut-in pressure (Dwt) 953 psig + 12 = 953 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 953 psia (l)
Flowing Temp. (Meter Run) 52 °F + 460 _____ = 512 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 477 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{P_c}}{\sqrt{P_d}} \right) = \frac{296}{\sqrt{P_d}} = \frac{296}{\sqrt{477}} = 296$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 296 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{680,680}{819,431} = .8306 = .8306$

SUMMARY

P_c = 953 psia
Q = 296 Mcf/day
P_w = 298 psia
P_d = 477 psia
D = 253 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title _____
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
<u>2237</u>	<u>0.150</u>	<u>7.745</u>	<u>1.162</u>	<u>87,616</u>	<u>88,778</u>	<u>298</u>

D @ 250 = 302

OK



