

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 Blanco Formation Pictured Cliff County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 12/14/55

Operator El Paso Natural Gas Co. Lease San Juan 28-7 Well No. 39
Unit D Sec. 18 Twp. 27 Rge. 7 Pay Zone: From 2941 To 3007
Casing: OD 5 1/2 WT. 15.5 Set At 2942 Tubing: OD 1 WT. 1.68# T. Perf. 2978
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .730
Date of Flow Test: From 11/22 To 11/30 * Date S.I.P. Measured 7/12/55
Meter Run Size 4 Orifice Size _____ Type Chart Sq. 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 (6.50)² x sp. const. 5 _____ = 211 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 211 psia (h)
P_t = (h) + (f) _____ = 211 psia (i)
Wellhead casing shut-in pressure (Dwt) 962 psig + 12 = 974 psia (j)
Wellhead tubing shut-in pressure (Dwt) 962 psig + 12 = 974 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 974 psia (l)
Flowing Temp. (Meter Run) 46 °F + 460 _____ = 506 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 487 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} = \right) = \frac{94}{\text{MCF/da}}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 94 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{711,507}{900,877} \right]^n \frac{.7898}{.8182} = \frac{77}{\text{MCF/da.}}$

SUMMARY

P_c = 974 psia
Q = 94 Mcf/day
P_w = 219 psia
P_d = 487 psia
D = 77 Mcf/day
Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Callaway
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>2174</u>	<u>.146</u>	<u>22.449</u>	<u>3,278</u>	<u>44,521</u>	<u>47,799</u>	<u>219</u>

D @ 250 = 92

