

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 Elance Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Co. Lease San Juan 28-6 Unit Well No. 39
Unit N Sec. 5 Twp. 27 Rge. 6 Pay Zone: From 4807 To 5505
Casing: OD 5 1/2 WT. 15.5 Set At 5531 Tubing: OD 2 WT. 4.7 T. Perf. 5361
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .680
Date of Flow Test: From 1/31 To 2/8/56 * Date S.I.P. Measured 11/17/55
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: _____ psi (f)
(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 (2.25) ² x sp. const. 10 = 681 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 681 psia (h)
P_t = (h) + (f) = 681 psia (i)
Wellhead casing shut-in pressure (Dwt) 1063 psig + 12 = 1075 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1055 psig + 12 = 1067 psia (k)
P_c = (j) or (k) whichever well flowed through = 1067 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 = 530 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 534 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{826}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 826 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1001}$ MCF/da.
 $\frac{853,333}{660,676}$ $\frac{1.2916}{1.2115}$

SUMMARY

P_c = 1067 psia
Q = 826 Mcf/day
P_w = 691 psia
P_d = 534 psia
D = 1001 Mcf/day

Company El Paso Natural Gas Company
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>3645</u>	<u>.233</u>	<u>60.311</u>	<u>14,052</u>	<u>463,761</u>	<u>477,813</u>	<u>691</u>

D @ 500 = 1005

