

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 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. 29
Unit A Sec. 27 Twp. 28 Rge. 6 Pay Zone: From 5049 To 5673
Casing: OD 7 WT. 20 & 23 Set At 5688 Tubing: OD 2 WT. 4.7 T. Perf. 5593
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .705
Date of Flow Test: From 12/16 To 12/23 * Date S.I.P. Measured 10/26/55
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 (7.60) ² x sp. const. 10 _____ = 578 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 578 psia (h)
P_t = (h) + (f) _____ = 578 psia (i)
Wellhead casing shut-in pressure (Dwt) 1084 psig + 12 = 1096 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1079 psig + 12 = 1091 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1091 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = 527 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 546 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{1080}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 1080 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{1140}$ MCF/day
 $\frac{892,165}{830,524}$ $\frac{1.0742}{1.0552}$

SUMMARY

P_c = 1091 psia
Q = 1080 Mcf/day
P_w = 600 psia
P_d = 546 psia
D = 1140 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>3943</u>	<u>.249</u>	<u>103,104</u>	<u>25,673</u>	<u>334,084</u>	<u>359,757</u>	<u>600</u>

D @ 500 = 1147



OIL CONSERVATION COMMISSION

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