

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 Blanco Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 29-7 Unit Well No. 68
Unit II Sec. 36 Twp. 29 Rge. 7 Pay Zone: From 5500 To 5970
Casing: OD 5-1/2 WT. 15.5 Set At 5988 Tubing: OD 2" WT. 4.7 T. Perf. 5907
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .700 Estimated _____
Date of Flow Test: From 6/29/58 To 7/9/58 * Date S.I.P. Measured 5/8/58 (32 days)
Meter Run Size _____ Orifice Size 2.250 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 (7.25) ² x sp. const. 10 _____ = 926 psia (g)
Corrected seven day avge. meter press. (b_f) (g) + (e) _____ = 926 psia (h)
P_t = (h) + (f) _____ = 926 psia (i)
Wellhead casing shut-in pressure (Dwt) 1065 psig + 12 = 1077 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1065 psig + 12 = 1077 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1077 psia (l)
Flowing Temp. (Meter Run) 75 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 538 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{1798}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1798 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1900}$ MCF/day
866.81 804.66 1.0764 1.0568

SUMMARY

P_c = 1077 psia
Q = 1798 Mcf/day
P_w = 926 psia
P_d = 538 psia
D = 1900 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
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 1)	P _t ² + R ²	P _w
<u>4135</u>	<u>.260</u>	<u>285.779</u>	<u>74.303</u>	<u>276.676</u>	<u>350.979</u>	<u>926</u>

D at 500 = 1820



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