

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 Astec Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Co. Lease San Jacinto Well No. 1
Unit D Sec. 17 Twp. 29 Rge. 10 Pay Zone: From 2004 To 2052
Casing: OD 5 1/2 WT. 13.5 Set At 2108 Tubing: OD 1.25 WT. 2.3 T. Perf. 1970
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .450 Estimated _____
Date of Flow Test: From 10/17/56 To 10/24/56 * Date S.I.P. Measured 9/24/56
Meter Run Size _____ Orifice Size _____ 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 (6.60) ² x sp. const. 5 _____ = 218 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 218 psia (h)
P_t = (h) + (f) _____ = 218 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 668 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 668 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 668 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ = 522 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 334 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{1666}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 1666 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{2143}$ MCF/day
 $\frac{334,668}{248,967} = 1.342^{.85} = 1.2861$

SUMMARY

P_c = 668 psia
Q = 1666 Mcf/day
P_w = 134 psia
P_d = 334 psia
D = 1666 Mcf/day

Company El Paso Natural Gas Co.
By L. D. Galloway
Title Sr. Gas Engineer
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>1281</u>	<u>0.009</u>	<u>1682.34</u>	<u>149.733</u>	<u>149.733</u>	<u>47,524</u>	<u>47,674</u>	<u>444</u>

2050 = 1591 MCF/D





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