

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 Hlance Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Co. Lease San Juan 32 - 9 Unit Well No. 45
Unit DM Sec. 12 Twp. 11 Rge. 10 Pay Zone: From 4932 To 5174
Casing: OD 5.5 WT. 15.5 Set At 5913 Tubing: OD 2 WT. 4.7 T. Perf. 5114
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .695 Estimated _____
Date of Flow Test: From 10/16/56 To 10/23/56 * Date S.I.P. Measured 6/21/56
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: _____ = _____ 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 (7.39) ² x sp. const. 10 = 533 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 533 psia (h)
P_t = (h) + (f) = 533 psia (i)
Wellhead casing shut-in pressure (Dwt) 1022 psig + 12 = 1034 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1020 psig + 12 = 1032 psia (k)
P_c = (j) or (k) whichever well flowed through = 1032 psia (l)
Flowing Temp. (Meter Run) 82 °F + 460 = 542 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 516 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{1109} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1109 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1494} \text{ MCF/da.}$
 $\frac{798,768}{738,444}$ $\frac{1.0813^{.75}}{1.0604}$

SUMMARY

P_c 1032 psia
Q 1109 Mcf/day
P_w 571 psia
P_d 516 psia
D 1494 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 ⁻⁸)	(F _c Q) ²	(F _c Q) ² (1-e ⁻⁸)	P _t ² (Column 1)	P _t ² + R ²	P _w
3784	.241	175.469	42,291	284,089	326,380	571

D 500 = 1439 MCF/D





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