

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 Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 28-7 Well No. 73 (M)
Unit A Sec. 28 Twp. 28 Rge. 7 Pay Zone: From 4338 To 4980
Casing: OD 5-1/2 WT. 15.50 Set At 5059 Tubing: OD 2" WT. 4.7 T. Perf. 4939
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .695 Estimated _____
Date of Flow Test: From 12-24-57 To 12-31-57 * Date S.I.P. Measured 9-26-57 (21 days)
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 (7.50)² x sp. const. 10 = 563 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 563 psia (h)
P_t = (h) + (f) = 563 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1071 psig + 12 = 1083 psia (k)
P_c = (j) or (k) whichever well flowed through = 1083 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 = 530 °Abs (m)
P_d = ½ P_c = ½ (l) = 542 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{820} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 820 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{846} \text{ MCF/da.}$
 $\frac{879,125}{842,783}$ $\frac{1.0431}{1.0322}$

SUMMARY

P_c = 1083 psia Company El Paso Natural Gas
Q = 820 Mcf/day By Eng.
P_w = 575 psia Title _____
P_d = 542 psia Witnessed by Lewis D. Galloway
D = 846 Mcf/day 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
3433	.221	59,444	13,137	316,969	330,106	575

D at 500 = 859



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