

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 Lease San Juan 29-7 Unit Well No. 58
Unit M Sec. 26 Twp. 29 Rge. 7 Pay Zone: From 4894 To 5491
Casing: OD 5 WT. 11.5 Set At 5568 Tubing: OD 2 WT. 4.7 T. Perf. 5418
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .705 Estimated _____
Date of Flow Test: From 7/9/57 To 7/17/57 * Date S.I.P. Measured 2/26/57
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 (7.30) 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) 1106 psig + 12 = 1118 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1097 psig + 12 = 1109 psia (k)
P_c = (j) or (k) whichever well flowed through 60 _____ = 1109 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 555 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{1726} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1726 $\left[\frac{(P_c^2 - P_d^2) = \underline{921,856}}{(P_c^2 - P_w^2) = \underline{881,798}} \right]^n \frac{1.0454}{1.0338} = \underline{1784} \text{ MCF/da.}$

SUMMARY

P_c = 1109 psia
Q = 1726 Mcf/day
P_w = 590 psia
P_d = 555 psia
D = 1784 Mcf/day

Company El Paso Natural Gas
By J. R. Dandridge
Title _____
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 _i (Column i)	P _i ² + R ² DIST. 3	P _w
3820	.243	263,348	63,994	284,089	548,083	590

D at 500 = 1756

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