

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)

70-432 OWWO
Pool Blanco Formation Mesa Verde County _____
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 32-9 Well No. 5
Unit FA Sec. 15 Twp. 31 Rge. 9 Pay Zone: From 4762 To 5563
Casing: OD 7 WT. 23 Set At 4710 Tubing: OD 2 WT. 4.7 T. Perf. 5143
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .617 Estimated _____
Date of Flow Test: From 4/21/59 To 4/29/59 * Date S.I.P. Measured 9/22/58
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 (7.15)² x sp. const. 10 = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 511 psia (h)
P_t = (h) + (f) = 511 psia (i)
Wellhead casing shut-in pressure (Dwt) 770 psig + 12 = 782 psia (j)
Wellhead tubing shut-in pressure (Dwt) 700 psig + 12 = 912 psia (k)
P_c = (j) or (k) whichever well flowed through = 782 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 = 528 °Abs (m)
P_d = ½ P_c = ½ (l) = 391 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{587} \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION
D = Q 587 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.3089}{1.2238} = \underline{718} \text{ MCF/day}$

SUMMARY
P_c = 782 psia Company El Paso Natural Gas
Q = 587 Mcf/day By _____
P_w = 511 psia Title Original Signed
P_d = 391 psia Witnessed by Harold L. Kendrick
D = 718 Mcf/day Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS						
CL	(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
			Friction Negligible			

D at 500 = 586
4/4/59, perforated the tubing. One hole at 5227, one at 5173, and one at 5143. Set standing valve at 5119 feet.

OK

