

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 San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Sunray Well No. 1-C
Unit A Sec. 1 Twp. 30 Rge. 11 Pay Zone: From 4193 To 4951
Casing: OD 5 WT. 18 Set At 4741 Tubing: OD 2 WT. 4.7 T. Perf. 4895
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 9/22 To 9/30/57 * Date S.I.P. Measured 8/16/57
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 (6.85)² x sp. const. 10 = 469 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 469 psia (h)
P_t = (h) + (f) _____ = 469 psia (i)
Wellhead casing shut-in pressure (Dwt) 811 psig + 12 = 823 psia (j)
Wellhead tubing shut-in pressure (Dwt) 811 psig + 12 = 823 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 823 psia (l)
Flowing Temp. (Meter Run) 78 °F + 460 _____ = 538 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 412 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} \quad \sqrt{(d)}} \right) = \underline{454} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 454 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{494} \text{ MCF/da.}$
 $\left[\frac{507,585}{453,395} \right]^n \frac{1.1195}{1.0882}$

SUMMARY

P_c = 823 psia
Q = 454 Mcf/day
P_w = 473 psia
P_d = 412 psia
D = 494 Mcf/day

Company El Paso Natural Gas
By _____
Title Original Signed
Witnessed by Lewis D. Galloway
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
3378	0.218	18.224	3,973	219,961	223,934	473