

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 29-7 Unit Well No. 48
Unit A Sec. 8 Twp. 29 Rge. 7 Pay Zone: From 4770 To 5292
Casing: OD 5 1/2 WT. 15.5 Set At 5360 Tubing: OD 2 WT. 4.7 T. Perf. 5195
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .695 Estimated _____
Date of Flow Test: From 6/30/57 To 7/8/57 * Date S.I.P. Measured 9/9/56 (14 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 (7.35)² x sp. const. 10 = 540 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) = 540 psia (h)
P_t = (h) + (f) = 540 psia (i)
Wellhead casing shut-in pressure (Dwt) 1060 psig + 12 = 1072 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1053 psig + 12 = 1065 psia (k)
P_c = (j) or (k) whichever well flowed through = 1065 psia (l)
Flowing Temp. (Meter Run) 77 °F + 460 = 537 °Abs (m)
P_d = ½ P_c = ½ (l) = 533 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{1250}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1250 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1295}$ MCF/da.
850,136 1.0486
810,716 1.0362

SUMMARY

P_c = 1065 psia Company El Paso Natural Gas
Q = 1250 Mcf/day By Original Signed
P_w = 569 psia Title Lewis D. Galloway
P_d = 533 psia Witnessed by _____
D = 1295 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
3611	.231	138133	31,909	291,600	323,509	569

D at 500 = 1283

