

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 Company Lease San Juan 28-6 Well No. 68-M
Unit L Sec. 13 Twp. 27 Rge. 6 Pay Zone: From 4688 To 5354
Casing: OD 5 1/2" WT. 15.50 Set At 5483 Tubing: OD 2" WT. 4.7 T. Perf. 5039
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .700 Estimated _____
Date of Flow Test: From 12-24-57 To 12-31-57 * Date S.I.P. Measured 10-9-57 (32 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 (7.75) ² x sp. const. 10 _____ = 601 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 601 psia (h)
P_t = (h) + (f) _____ = 601 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1104 psig + 12 = 1116 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1116 psia (l)
Flowing Temp. (Meter Run) 64 °F + 460 _____ = 524 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 558 psia (n)

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

DELIVERABILITY CALCULATION

D = Q 587 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{1.0646}{1.0481} = \underline{615}$ MCF/da.

SUMMARY

P_c = 1116 psia Company El Paso Natural Gas Company
Q = 587 Mcf/day By Original Signed
P_w = 607 psia Title Lewis D. Galloway
P_d = 558 psia Witnessed by _____
D = 615 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
3527	.226	30.459	6884	361201	368085	607

D at 500 = 636

OK

