

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 28-7 Unit Well No. 50
Unit A Sec. 23 Twp. 28 Rge. 7 Pay Zone: From 5064 To 5708
Casing: OD 5 1/2 WT. 15.5 Set At 5828 Tubing: OD 2 WT. 4.7 T. Perf. 5686
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 703 Estimated _____
Date of Flow Test: From 10-9-56 To 10-17-56 * Date S.I.P. Measured 6-26-56 (10 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 (7.20)² x sp. const. 10 _____ = 504 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 501 psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 1057 psig + 12 = 1069 psia (j)
Wellhead tubing shut-in pressure (Dwt) 989 psig + 12 = 1001 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1001 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 _____ = 532 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 501 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{1080} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1080 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{751,000}{721,900}^{1.0403} = \text{1113} \text{ MCF/da.}$
1.0301

SUMMARY

P_c = 1001 psia
Q = 1080 Mcf/day
P_w = 509 psia
P_d = 501 psia
D = 1113 Mcf/day

Company El Paso Natural Gas Company
By J. Gallenaga
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 _t ² (Column i)	P _t ² + R ²	P _w
4009	.253	183,104	26085	254,016	280,101	509

D @ 500 = 1071



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