

Initial Deliverability
Test

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 Company Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 32-9 Well No. 14
Unit A Sec. 9 Twp. 31 Rge. 9 Pay Zone: From 5395 To 5797
Casing: OD 7" WT. 20-23 Set At 5430 Tubing: OD 2 WT. 4.7 T. Perf. 5401
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .645 Estimated _____
Date of Flow Test: From 4/23 To 5/1/57 * Date S.I.P. Measured 5/8/56
Meter Run Size 4 Orifice Size .750 Type Chart Sq. Rt. Type Taps Flange

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 (7.45)² x sp. const. 10 _____ = 555 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 555 psia (h)
P_t = (h) + (f) _____ = 555 psia (i)
Wellhead casing shut-in pressure (Dwt) 972 psig + 12 = 984 psia (j)
Wellhead tubing shut-in pressure (Dwt) 805 psig + 12 = 817 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 817 psia (l)
Flowing Temp. (Meter Run) 61 °F + 460 _____ = 521 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 409 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{199}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 199 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{255}$ MCF/da.
 $\frac{500,208}{358,680}$ $\frac{1.3945}{1.2836}$

SUMMARY

P_c = 817 psia Company El Paso Natural Gas Company
Q = 199 Mcf/day By Original Contract
P_w = 556 psia Title Lewis D. Galloway
P_d = 409 psia Witnessed by _____
D = 255 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
3484	.224	3501	784	308,025	308,809	556

D @ 500 = 218



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