

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 South Blance Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Company Lease Florence Well No. 7-D
Unit 0 Sec. 19 Twp. 27 Rge. 8 Pay Zone: From 2102 To 2152
Casing: OD 5 1/2 WT. 15.5 Set At 2205 Tubing: OD 1 1/2 WT. 2.3 T. Perf. 2077
Produced Through: Casing X Tubing _____ Gas Gravity: Measured 655 Estimated _____
Date of Flow Test: From 11/8/56 To 11/16/56 * Date S.I.P. Measured 7/9/56
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 (7.60)² x sp. const. 5 = 289 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 289 psia (h)
P_t = (h) + (f) = 289 psia (i)
Wellhead casing shut-in pressure (Dwt) 782 psig + 12 = 794 psia (j)
Wellhead tubing shut-in pressure (Dwt) 781 psig + 12 = 793 psia (k)
P_c = (j) or (k) whichever well flowed through = 794 psia (l)
Flowing Temp. (Meter Run) 49 °F + 460 = 509 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 397 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2}}{\frac{V(c)}{V(d)}} \right)^{.85} = \underline{134} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \times \left[\frac{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{.85}}{\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right)^{.85}} \right] = \underline{118} \text{ MCF/da.}$$

SUMMARY

P_c = 794 psia Company El Paso Natural Gas Company
Q = 134 Mcf/day By L.D. Galloway
P_w = 289 psia Title Sr. Gas Engineer
P_d = 397 psia Witnessed by _____
D = 118 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
			Friction Negligible			

D @ 250 = 137

OK



