

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 Blanco Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Florance Well No. 8-D
Unit C Sec. 20 Twp. 27 Rge. 8 Pay Zone: From 2826 To 2844
Casing: OD 5-1/2 WT. 15.5 Set At 2914 Tubing: OD 2 WT. 4.7 T. Perf. 2801
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .650 Estimated _____
Date of Flow Test: From 8/8/57 To 8/16/57 * Date S.I.P. Measured 10/11/56 (12 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 (7.10)² x sp. const. 5 = 252 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 252 psia (h)
P_t = (h) + (f) = 252 psia (i)
Wellhead casing shut-in pressure (Dwt) 847 psig + 12 = 859 psia (j)
Wellhead tubing shut-in pressure (Dwt) 847 psig + 12 = 859 psia (k)
P_c = (j) or (k) whichever well flowed through = 859 psia (l)
Flowing Temp. (Meter Run) 61 °F + 460 = 521 °Abs (m)
P_d = ½ P_c = ½ (l) = 430 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ } }{\sqrt{(d)}} = \text{ } \right)^* = \text{ } 650 \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 660 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{552,981}{674,377} \right]^n \frac{.8199}{.8448} = \text{ } 558 \text{ MCF/da.}$

SUMMARY

P_c = 859 psia
Q = 660 Mcf/day
P_w = 252 psia
P_d = 430 psia
D = 558 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Lewis D. Galloway
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
			FRICITION NEGLIGIBLE			

D at 250 =656