

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 West Kutz Ballard Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Huerfano Well No. 51
Unit C Sec. 21 Twp. 26N Rge. 9W Pay Zone: From 2005 To 2020
Casing: OD 5 1/2 WT. 15.5 Set At 2120 Tubing: OD 1 1/4 WT. 2.3 T. Perf. 2014
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .665 Estimated _____
Date of Flow Test: From 2/18 To 3/9/57 * Date S.I.P. Measured 11/14/56
Meter Run Size _____ Orifice Size .375 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 (6.75) ² x sp. const. 5 _____ = 228 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 228 psia (h)
P_t = (h) + (f) _____ = 228 psia (i)
Wellhead casing shut-in pressure (Dwt) 595 psig + 12 = 607 psia (j)
Wellhead tubing shut-in pressure (Dwt) 595 psig + 12 = 607 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 607 psia (l)
Flowing Temp. (Meter Run) 141 °F + 460 _____ = 501 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 304 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{_____}}{\sqrt{(d)}} = \text{_____} \right)^* = \underline{14} MCF/day
(integrated)$

DELIVERABILITY CALCULATION

D = Q 14 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{276,033}{316,465} \right]^n \frac{.8722}{.8903} = \underline{12} MCF/day$

SUMMARY

P_c = 607 psia
Q = 14 Mcf/day
P_w = 228 psia
P_d = 304 psia
D = 12 Mcf/day

Company El Paso Natural Gas Company
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
			FRICION NEGLIGIBLE			

D @ 250 = 13



