

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

Operator El Paso Natural Gas Lease Johnston Well No. 2
Unit I Sec. 9 Twp. 28N Rge. 9W Pay Zone: From 2504 To 2610
Casing: OD 5 1/2 WT. 15.5 Set At 2457 Tubing: OD 2 WT. 4.7 T. Perf. 2566
Produced Through: Casing I Tubing _____ Gas Gravity: Measured .645 Estimated _____
Date of Flow Test: From 2/28 To 3/9/57 * Date S.I.P. Measured 9/27/56
Meter Run Size _____ Orifice Size 1.000 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: _____ = _____ psi (f)
(b) - (c) Flow through tubing; (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.35) ² x sp. const. 3000 = 510 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 510 psia (h)
P_t = (h) + (f) = 510 psia (i)
Wellhead casing shut-in pressure (Dwt) 704 psig + 12 = 716 psia (j)
Wellhead tubing shut-in pressure (Dwt) 704 psig + 12 = 716 psia (k)
P_c = (j) or (k) whichever well flowed through = 716 psia (l)
Flowing Temp. (Meter Run) 50 °F + 460 = 510 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 358 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{234} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 234 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{2.7393}{1.600} = \underline{374} \text{ MCF/da.}$

SUMMARY

P_c = 716 psia
Q = 234 Mcf/day
P_w = 510 psia
P_d = 358 psia
D = 374 Mcf/day

Company El Paso Natural Gas Company
By _____
Title Original Signed
Witnessed by Lewis D. Galloway
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

Pictured Cliffs Well producing to _____

D @ 500 = 260

D @ 250 = 423



OK