

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 Aztec Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Heaton Well No. 12
Unit E Sec. 33 Twp. 31 Rge. 11 Pay Zone: From 2378 To 2424
Casing: OD 5-1/2 WT. 15.5 Set At 2478 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2390
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .680 Estimated _____
Date of Flow Test: From 9/8/57 To 9/17/57 * Date S.I.P. Measured 5/31/57
Meter Run Size 4 Orifice Size 1.000 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 (6.90) ² x sp. const. 500 _____ = 238 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 238 psia (h)
P_t = (h) + (f) _____ = 238 psia (i)
Wellhead casing shut-in pressure (Dwt) 684 psig + 12 = 696 psia (j)
Wellhead tubing shut-in pressure (Dwt) 684 psig + 12 = 696 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 696 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 _____ = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 348 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{355} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION
D = Q 355 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{.8666}{.8852} = \underline{314} \text{ MCF/da.}$
 $\left[\frac{363,312}{419,217} \right]^n$

SUMMARY
P_c = 696 psia
Q = 355 Mcf/day
P_w = 255 psia
P_d = 348 psia
D = 314 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
1625	.112	76.388	8,555	56,644	65,199	255

D at 250 = 347