

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 Elanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Barrett Well No. 3
Unit K Sec. 20 Twp. 31 Rge. 9 Pay Zone: From 5149 To 5739
Casing: OD 7 WT. 23 Set At 5050 Tubing: OD 2 WT. 4.7 T. Perf. 5185 +
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .661 Estimated _____
Date of Flow Test: From 6/7/58 To 6/15/58 * Date S.I.P. Measured 11/7/57 (7 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 (6.81) ² x sp. const. 10 _____ = 464 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 464 psia (h)
P_t = (h) + (f) _____ = 464 psia (i)
Wellhead casing shut-in pressure (Dwt) 920 psig + 12 = 932 psia (j)
Wellhead tubing shut-in pressure (Dwt) 920 psig + 12 = 932 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 932 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 _____ = 532 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 466 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{739} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 739 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{747} \text{ MCF/da.}$
 $\frac{651,468}{642,659}$ $\frac{1.0137}{1.0105}$

SUMMARY

P_c = 932 psia
Q = 739 Mcf/day
P_w = 475 psia
P_d = 466 psia
D = 747 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
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
3427	.221	48.275	10,669	215,296	225,965	475

D at 500 = 699

+ Tubing perforated on 5/22/58 at 5185'.



