

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)

72-325-01

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

Operator El Paso Natural Gas Lease Willmuth Pool Unit Well No. 1
Unit N Sec. 26 Twp. 31N Rge. 11W Pay Zone: From 4556 To 4758
Casing: OD 5.5 WT. 15.5 Set At 4784 Tubing: OD 2 WT. 4.7 T. Perf. 4722
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 10/22/58 To 10/30/58 * Date S.I.P. Measured 9/15/58 (31 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 (7.00) ² x sp. const. 10 _____ = 490 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 490 psia (h)
P_t = (h) + (f) _____ = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) 1037 psig + 12 = 1049 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1029 psig + 12 = 1041 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1041 psia (l)
Flowing Temp. (Meter Run) 80 °F + 460 _____ = 540 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 521 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{692}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 692 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{678}$ MCF/day
 $\frac{.9729}{.9796}$

SUMMARY

P_c = 1041 psia
Q = 692 Mcf/day
P_w = 499 psia
P_d = 521 psia
D = 678 Mcf/day

Company El Paso Natural Gas
By _____ Original Signed
Title _____
Witnessed by Harold L. Kendrick
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
3164	.206	42.328	8,720	248,820	248,820	499

D at 500 = 678

