

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)

71-998-01

Pool Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Howell Well No. 2-G
Unit 5-1/2 Sec. 15.50 Twp. 5266 Rge. 2 Pay Zone: From 4584 To 5250
Casing: OD 5-1/2 WT. 15.50 Set At 5266 Tubing: OD 2" WT. 4.7 T. Perf. 5178
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .664 Estimated _____
Date of Flow Test: From 5/30/58 To 6/9/58 * Date S.I.P. Measured 12/31/57 (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: _____ = _____ 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 (7.20) ² x sp. const. 10 = 518 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 518 psia (h)
P_t = (h) + (f) _____ = 518 psia (i)
Wellhead casing shut-in pressure (Dwt) 975 psig + 12 = 987 psia (j)
Wellhead tubing shut-in pressure (Dwt) 975 psig + 12 = 987 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 987 psia (l)
Flowing Temp. (Meter Run) 92 °F + 460 _____ = 552 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 494 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{2565}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 2565 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{3059}$ MCF/day
 $\frac{730133}{577316}$ ^{2.17} $\frac{(1.2647)^{.75}}{(1.1927)}$

SUMMARY

P_c = 987 psia
Q = 2565 Mcf/day
P_w = 630 psia
P_d = 494 psia
D = 3059 Mcf/day

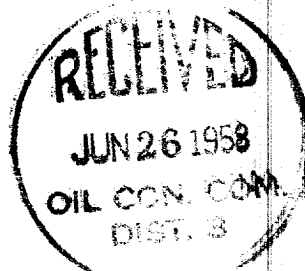
Company El Paso Natural Gas
By Harold A. Ferber
Title _____
Witnessed by _____
Company _____

* 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
3438	.221	581.581	128,529	268,324	396,853	630

D at 500 = 2582



THE UNIVERSITY OF CHICAGO
LIBRARY
540 EAST 57TH STREET
CHICAGO, ILL. 60637

