

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)

72-196-01

Pool South Blanco Formation Fruitland G11370 County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Binoma Unit Well No. 109
Unit D Sec. 19 Twp. 27 Rge. 6 Pay Zone: From 3112 To 3236
Casing: OD 5-1/2 WT. 26.4 Set At 3236 Tubing: OD 1-1/4 WT. 4.7 T. Perf. 3135
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .699 Estimated _____
Date of Flow Test: From 7/20/58 To 8/9/58 * Date S.I.P. Measured 3/28/58 (32 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 (6.45)² x sp. const. 5 _____ = 208 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 208 psia (h)
P_t = (h) + (f) _____ = 208 psia (i)
Wellhead casing shut-in pressure (Dwt) 1049 psig + 12 = 1061 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1049 psig + 12 = 1061 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1061 psia (l)
Flowing Temp. (Meter Run) 66 °F + 460 _____ = 522 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 531 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ } }{\sqrt{(d)}} = \text{ } } \right)^* = \underline{241} \text{ MCF/day}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 241 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{.7832^{-.88}}{.8012} = \underline{193} \text{ MCF/day.}$

SUMMARY

P_c = 1061 psia
Q = 241 Mcf/day
P_w = 220 psia
P_d = 531 psia
D = 193 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
<u>2191</u>	<u>.147</u>	<u>35200</u>	<u>5174</u>	<u>43064</u>	<u>48438</u>	<u>220</u>

D at 250 = 236