

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

72-224-01 (TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool El Paso Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 29-7 Unit Well No. 66
Unit H Sec. 22 Twp. 2N Rge. 7W Pay Zone: From 5316 To 5898
Casing: OD 5.90 WT. 13.5 Set At 5945 Tubing: OD 2" WT. 4.7 T. Perf. 5894
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .669 Estimated _____
Date of Flow Test: From 10/30/58 To 11/7/58 * Date S.I.P. Measured 7/8/58
Meter Run Size _____ Orifice Size 1.750 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 (7.25)² x sp. const. 10 = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 511 psia (h)
P_t = (h) + (f) _____ = 511 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 1067 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 1079 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1071 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 _____ = 539 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 536 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{2310} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION
D = Q 2310 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{1.1174}{1.0068} = \underline{2311} \text{ MCF/da.}$
032,745
759,406

SUMMARY
P_c = 1071 psia
Q = 2310 Mcf/day
P_w = 614 psia
P_d = 536 psia
D = 2311 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 1)	P _t ² + R ²	P _w
<u>5896</u>	<u>.847</u>	<u>471.715</u>	<u>116.914</u>	<u>261,121</u>	<u>377,635</u>	<u>614</u>

D at 900 = 2308

