

**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 Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Riddle Well No. 3-F (M)
Unit A Sec. 20 Twp. 28 Rge. 8 Pay Zone: From 4076 To 4740
Casing: OD 5-1/2 WT. 15.50 Set At 4831 Tubing: OD 2 WT. 4.7 T. Perf. 4367
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .680 Estimated _____
Date of Flow Test: From 12/16/57 To 12/23/57 * Date S.I.P. Measured 11/25/57 (15 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 (7.35)² x sp. const. 10 _____ = 540 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 540 psia (h)
P_t = (h) + (f) _____ = 540 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1073 psig + 12 = 1085 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1085 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 _____ = 530 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 543 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{1385}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1385 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{1.0347}{1.0259} = \underline{1428}$ MCF/day

SUMMARY

P_c = 1085 psia
Q = 1385 Mcf/day
P_w = 570 psia
P_d = 543 psia
D = 1428 Mcf/day

Company El Paso Natural Gas
By J. D. Ballaway
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
2970	.194	169.572	32,897	291,629	294,497	570

D at 500 = 1419

