

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 South Blanco Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Rincon Unit Well No. 87
Unit 1 Sec. 13 Twp. 27 Rge. 7 Pay Zone: From 1310 To 3336
Casing: OD. 5-1/2 WT. 19.5 Set At 3420 Tubing: OD. 1-1/4 WT. 8.3 T. Perf. 2988
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .605 Estimated _____
Date of Flow Test: From 10/31 To 11/9/57 * Date S.I.P. Measured 1/25/57 (9 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. .5 _____ = 270 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = 270 psia (h)
P_t = (h) + (f) _____ = 270 psia (i)
Wellhead casing shut-in pressure (Dwt) 1060 psig + 12 = 1072 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1061 psig + 12 = 1073 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1073 psia (l)
Flowing Temp. (Meter Run) 52 °F + 460 _____ = 512 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 537 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{428} \text{ MCF/day}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 428 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{358} \text{ MCF/day}$
862,160 1,063,107 .8117 .8375

SUMMARY

P_c = 1073 psia
Q = 428 Mcf/day
P_w = 297 psia
P_d = 537 psia
D = 358 Mcf/day

Company El Paso Natural Gas
By _____
Title Original Signed
Witnessed by Lewis D. Galloway
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 _w
<u>2047</u>	<u>.138</u>	<u>111,088</u>	<u>15,342</u>	<u>72,900</u>	<u>297</u>

D at 270 = 429

OK

