

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)

74-661-01
Pool Ballard (PC) Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Hamilton State Well No. 9
Unit 0 Sec. 2 Twp. 25 Rge. 8 Pay Zone: From 2720 To 2748
Casing: OD 5-1/2 WT. 15.5 Set At 2829 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2720
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .665 Estimated _____
Date of Flow Test: From 5/22/58 To 5/30/58 * Date S.I.P. Measured 1/6/58
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 (6.95)² x sp. const. 5 _____ = 242 ✓ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 242 ✓ psia (h)
P_t = (h) + (f) _____ = 242 ✓ psia (i)
Wellhead casing shut-in pressure (Dwt) 538 _____ psig + 12 = 550 ✓ psia (j)
Wellhead tubing shut-in pressure (Dwt) 538 _____ psig + 12 = 550 ✓ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 550 ✓ psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 _____ = 522 ✓ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 275 ✓ psia (n)

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

DELIVERABILITY CALCULATION

D = Q 428 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{.9300}{.9402} = \underline{402}$ MCF/day

SUMMARY

P_c = 550 ✓ psia
Q = 428 ✓ Mcf/day
P_w = 242 ✓ psia
P_d = 275 ✓ psia
D = 402 ✓ Mcf/day

Company El Paso Natural Gas
By Barold L. Henderson
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
			Friction Negligible			

D at 250 = 413



