

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)

72-259

Pool South Elanoe Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 28-7 Unit Well No. 90
Unit C Sec. 21 Twp. 27 Rge. 7 Pay Zone: From 2934 To 3004
Casing: OD 5-1/2 WT. 15.5 Set At 3041 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2968
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .663 Estimated _____
Date of Flow Test: From 9/7/58 To 9/15/58 Date S.I.P. Measured 2/19/58
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 (6.9) ² x sp. const. 5 = 238 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 238 psia (h)
P_t = (h) + (f) = 238 psia (i)
Wellhead casing shut-in pressure (Dwt) 997 psig + 12 = 1009 psia (j)
Wellhead tubing shut-in pressure (Dwt) 997 psig + 12 = 1009 psia (k)
P_c = (j) or (k) whichever well flowed through = 1009 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 = 505 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 505 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{286} \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \underline{286} \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{.7991}{.8265} = \underline{236} \text{ MCF/da.}$$

SUMMARY

P_c = 1009 psia
Q = 286 Mcf/day
P_w = 251 psia
P_d = 505 psia
D = 236 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
1968	.133	49.576	6.594	56,044	63,238	251

D at 250 = 283



