

Initial Deliverability
Test

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)

74-837
Pool Ballard Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Canyon Largo Well No. 77
Unit F Sec. 9 Twp. 24 Rge. 6 Pay Zone: From 2100 To 2160
Casing: OD 5-1/2 WT. 15.5 Set At 2199 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 2137
Produced Through: Casing X Tubing X Gas Gravity: Measured .685 Estimated _____
Date of Flow Test: From 7/7/59 To 7/15/59 * Date S.I.P. Measured 4/17/59
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): 216
Normal chart average reading _____ psig + 12 = 228 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = 228 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 228 psia (h)
P_t = (h) + (f) _____ = 228 psia (i)
Wellhead casing shut-in pressure (Dwt) 650 psig + 12 = 662 psia (j)
Wellhead tubing shut-in pressure (Dwt) 650 psig + 12 = 662 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 662 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = 527 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 331 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{685} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 685 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{638} \text{ MCF/da.}$
328683 .9193
357533 .9310

SUMMARY

P_c = 662 psia
Q = 685 Mcf/day
P_w = 284 psia
P_d = 331 psia
D = 638 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
1464	.101	284.428	28,727	51984	80711	284

D at 250 = 660

