

Initial Deliverability
Test

72-502

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 Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 28-6 Well No. 85 (M)
Unit G Sec. 25 Twp. 27 Rge. 6 Pay Zone: From 4760 To 5398
Casing: OD 5-1/2 WT. 15.5 Set At 5441 Tubing: OD 2 WT. 4.7 T. Perf. 5257
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .686 Estimate _____
Date of Flow Test: From 12/7/59 To 12/13/59 * Date S.I.P. Measured 10/14/59
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) Dual 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) _____ ± _____ psia (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psia (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. 573 = 585 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 585 psia (h)
P_t = (h) + (f) _____ = 585 psia (i)
Wellhead casing shut-in pressure (Dwt) Dual psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = 1093 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1093 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 _____ = 530 °° abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 547 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{1114}$ CF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 1114 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{1182}$ MCF/day
 $\frac{1.0826}{1.0613}$

SUMMARY

P_c = 1093 psia Company El Paso Natural Gas
Q = 1114 Mcf/day By Original Signed
P_w = 606 psia Title Harold L. Kendrick
P_d = 547 psia Witnessed by _____
D = 1182 Mcf/day Company _____

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	1-e ^{-S}	(FcQ) ²	(FcQ) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
3606	.231	109.705	25,342	342,225	367,567	606

D at 500 = 1191

