

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)

Pool West Kuts Formation Pictured Cliff County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____

Operator El Paso Natural Gas Lease Huerfano Unit Well No. 71
Unit F Sec. 9 Twp. 26 Rge. 10 Pay Zone: From 2190 To 2206
Casing: OD 5½ WT. 15.5 Set At 2304 Tubing: OD 1½ WT. 2.3 T. Perf. 2179
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .600 Estimated _____
Date of Flow Test: From 3/16/57 To 3/23/57* Date S.I.P. Measured 12/11/56 (10 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 (6.55) ² x sp. const. 5 _____ = 215 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 215 psia (h)
P_t = (h) + (f) _____ = 215 psia (i)
Wellhead casing shut-in pressure (Dwt) 411 psig + 12 = 423 psia (j)
Wellhead tubing shut-in pressure (Dwt) 411 psig + 12 = 423 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 423 psia (l)
Flowing Temp. (Meter Run) 45 °F + 460 _____ = 505 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 212 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{296}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 296 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{1.0096}{1.0082} = \underline{298}$ MCF/da.

SUMMARY

P_c = 423 psia
Q = 296 Mcf/day
P_w = 215 psia
P_d = 212 psia
D = 298 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
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 @ 500 = 253

OK



1000 11C
1780