

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 Undesignated Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Dryden Well No. 3 (P)
Unit M Sec. 21 Twp. 26 Rge. 8 Pay Zone: From 2192 To 2234
Casing: OD 7-5/8 WT. 26.40 Set At 2389 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2232
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .640 Estimated _____
Date of Flow Test: From 10/1 To 10/9 * Date S.I.P. Measured 5/28/57
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 (7.25) ² x sp. const. 1.0 _____ = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 526 psia (h)
P_t = (h) + (f) _____ = 526 psia (i)
Wellhead casing shut-in pressure (Dwt) 869 psig + 12 = 881 psia (j)
Wellhead tubing shut-in pressure (Dwt) 869 psig + 12 = 881 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 881 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 _____ = 528 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 441 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{127} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 127 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{145} \text{ MCF/da.}$
581,680 1.1670
498,517 1.140

SUMMARY

P_c = 881 psia
Q = 127 Mcf/day
P_w = 527 psia
P_d = 441 psia
D = 145 Mcf/day

Company El Paso Natural Gas
By _____
Title Original Signed
Witnessed by Lewis D. Galloway
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
<u>1428</u>	<u>.099</u>	<u>9.777</u>	<u>.968</u>	<u>276,676</u>	<u>277,644</u>	<u>527</u>

D at 250 = 171

