

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 Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline Pacific Northwest Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 28-6 Unit Well No. 45
Unit B Sec. 26 Twp. 28 Rge. 6 Pay Zone: From 5106 To 5722
Casing: OD 7 WT. 25 Set At 5040 Tubing: OD 2 WT. 4.7 T. Perf. 5631
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .700 Estimated _____
Date of Flow Test: From 9/22/57 To 9/30/57 * Date S.I.P. Measured 7/19/55 (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 (7.49) ² x sp. const. 10 _____ = 561 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 561 psia (h)
P_f = (h) + (f) _____ = 561 psia (i)
Wellhead casing shut-in pressure (Dwt) 960 psig + 12 = 972 psia (j)
Wellhead tubing shut-in pressure (Dwt) 951 psig + 12 = 963 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 963 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = 527 ° Abs (m)
P_d = ½ P_c = ½ (l) _____ = 482 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{231}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 231 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{254}$ MCF/day
695,045 611,473 1.1366 1.1006

SUMMARY

P_c = 963 psia
Q = 231 Mcf/day
P_w = 562 psia
P_d = 482 psia
D = 254 Mcf/day

Company El Paso Natural Gas
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
3942	.249	4.718	1175	314,721	315,896	562

OK

D at 500 = 246