

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)

72-522

Pool Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Blanco 27-9 Well No. 1-1
Unit B Sec. 1 Twp. 27 Rge. 9 Pay Zone: From 4314 To 4468
Casing: OD 5-1/2 WT. 15-1/2 Set At 4498 Tubing: OD 1-1/4 WT. 2.4 T. Perf. 4450
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .715 Estimated _____
Date of Flow Test: From 12/22/59 To 12/30/59 * Date S.I.P. Measured 9/4/59
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):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.00) ² x sp. const. 10 _____ = 490 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = 490 psia (h)
P_t = (h) + (f) _____ = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) 1024 psig + 12 = 1036 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1027 psig + 12 = 1039 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1039 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 520 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{1302} \text{ MCF/day}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1302 $\left[\frac{(P_c^2 - P_d^2) = \underline{809121}}{(P_c^2 - P_w^2) = \underline{626724}} \right]^n \frac{1.2910}{1.2111} = \underline{1577} \text{ MCF/day}$

SUMMARY

P_c = 1039 psia Company El Paso Natural Gas
Q = 1302 Mcf/day By _____
P_w = 673 psia Title Original Signed
P_d = 520 psia Witnessed by Harold L. Kendrick
D = 1577 Mcf/day 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 1)	P _t ² + R ²	P _w
<u>3182</u>	<u>.207</u>	<u>1027.523</u>	<u>212,697</u>	<u>240200</u>	<u>452797</u>	<u>673</u>

D at 500 = 1276

