

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 San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Randleman Pool Unit Well No. 1
Unit B Sec. 26 Twp. 31 Rge. 11 Pay Zone: From 4526 To 4730
Casing: OD 5 1/2 WT. 15.5 Set At 4773 Tubing: OD 2 WT. 4.7 T. Perf. 4659
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .685 Estimated _____
Date of Flow Test: From 3/16/57 To 3/23/57* Date S.I.P. Measured 2/6/57
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 (7.05)² x sp. const. 10 _____ = 497 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 497 psia (h)
P_t = (h) + (f) _____ = 497 psia (i)
Wellhead casing shut-in pressure (Dwt) 1010 psig + 12 = 1022 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1010 psig + 12 = 1022 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1022 psia (l)
Flowing Temp. (Meter Run) 69 °F + 460 _____ = 529 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 511 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^2 = \underline{1150}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1150 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1161}$ MCF/da.
783,363 1.0130
773,277 1.0097

SUMMARY

P_c = 1022 psia Company El Paso Natural Gas Company
Q = 1150 Mcf/day By Original Signed
P_w = 521 psia Title _____
P_d = 511 psia Witnessed by Lewis D. Galloway
D = 1161 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 i)	P _t ² + R ²	P _w
<u>3.91</u>	<u>.207</u>	<u>116.899</u>	<u>24198</u>	<u>247,009</u>	<u>271,207</u>	<u>521</u>

D @ 500 = 1134

9C

