

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 Date Test Filed _____

Operator El Paso Natural Gas Lease Riddle Well No. 3-B
Unit K Sec. 23 Twp. 30 Rge. 10 Pay Zone: From 4410 To 5251
Casing: OD 7 WT. 23 Set At 4343 Tubing: OD 2 WT. 4.7 T. Perf. 4115
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .681 Estimated _____
Date of Flow Test: From 10/15/59 To 10/22/59 * Date S.I.P. Measured 4/14/59
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 (_____) ² x sp. const. _____ = 483 psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e) _____ = 483 psia (h)
P_t = (h) + (f) _____ = 483 psia (i)
Wellhead casing shut-in pressure (Dwt) 781 psig + 12 = 793 + psia (j)
Wellhead tubing shut-in pressure (Dwt) 663 psig + 12 = 675 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 793 + psia (l)
Flowing Temp. (Meter Run) 61 °F + 460 _____ = 521 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 397 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right) = \underline{57}$ MCF/da
(Integrated) $\sqrt{(d)}$

DELIVERABILITY CALCULATION

D = Q 57 $\left[\frac{(P_c^2 - P_d^2) = \underline{471240}}{(P_c^2 - P_w^2) = \underline{397560}} \right]^n \frac{1.1913}{1.1403} = \underline{65}$ MCF/da.

SUMMARY

P_c = 793 psia
Q = 57 Mcf/day
P_w = 483 psia
P_d = 397 psia
D = 65 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
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 at 500 = 54

+ Tubing perforated 9/3/59

SIPC used for P_c



