

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - SAN JUAN BASIN

Pool Blanco Formation Mesa Verde County San Juan
Well Name Kernaghan No. 4 70-236
Unit H S 30 T31 R8 Pay Zone 5300 To 5808 Flow String Tubing
Casing O D 4.500 I D 4.052 Set at 5858 Tubing O D 2.375 I D 1.995 L 5774 Top Perf.
Operator EL PASO NATURAL GAS COMPANY Purchasing Pipeline EL PASO NATURAL GAS COMPANY

Pd: % Of P_c 80 Comm. Designated P_c, psia 845 Period Of Test Flow From 8-2-65 To 8-10-65 SIP Measured 5-28-65

Deadweight Flowing Pressure, psia
Casing 845 (a) Tubing 845 (b) Meter 470 (c) Chart 470 (d) Flowing Pressure, psia
Meter Error 0.648 Friction Loss 0.648

Deadweight Shut-In Pressures, psia
Casing 845 (j) Tubing 845 (k) Meter Error 0.648 Friction Loss 0.648

7 Day-Avg. Flowing Pres., psia
Chart 470 (g) Corrected 470 (h) P_f 470 (i) Gravity 0.648

G. L. = 3742 1-e^{-s} = 0.238 F_c 9.402 (F_cQ)² 6.589

(1-e^{-s}) (F_cQ)² = R² = 1,568 P₁² = 220,900 P₂² = 222,468

Q = $\frac{273}{(\text{integrated})} \times \left[\sqrt{\frac{(c)}{(d)}} \right] = \frac{1.0000}{1.0000} = 273$

D=Q 273 $\times \left[\frac{(P_c^2 - P_2^2)}{(P_c^2 - P_1^2)} \right]^n = \left[\frac{257,049}{491,557} \right]^n = \frac{(0.5229)^n}{0.6150} = 168$

REMARKS



SUMMARY

P_c = 845
Q = 273
P_w = 472
P_d = 676
D = 168

Company EL PASO NATURAL GAS COMPANY
By H. L. JENDRICK
Title SENIOR GAS ENGINEER
Witnessed By _____
Company _____
