

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)Initial
Deliverability Test

74957 Pool SOUTH BLANCO Lease VAUGHN No. 7
 Formation PC Unit M S 26 T 26 R 06 Pay Zone 2586 to 2638 Cty. RA
 Casing - OD 5500 Wt. 1550 Set at 2665 Tubing - OD 1250 Wt. 0240 L 2546 (T. Perf.)
 Operator EL PASO NATURAL GAS CO. Purchasing Pipeline EL PASO NATURAL GAS CO.

OBSERVED DATA

Period of Test Flow
 From 042160 To 042960 S.I.P. Measured 121969⁵⁹ Prod. String O.D. 1.250
 Deadweight Flowing Pressure, psia
 Casing _____ (a) Tubing _____ (b) Meter _____ (c) Wt. 2.40
 Flowing Pressure, psia
 Chart _____ (d) Tubing 877 (k) Casing 877 (j) Length 2546
 Deadweight Shut-in Pressure, psia
 Meter Error 0 (e) Friction Loss 0 (f) 7 Day Avg. Flowing Pres., psia
 Chart 252 (g) Corrected 252 (h)

FRICTION CALCULATION

Grav. .677 $P_t =$ 252 (i) $GL =$ 1724 $(1-e^{-s}) =$.118

$(F_c Q)^2 =$ 10563 $(1-e^{-s})(F_c Q)^2 = R^2 =$ 1246 $P_t^2 =$ 63504 $P_w^2 =$ 64750

FLOW RATE CALCULATION

$Q =$ 132 (integrated) $\times \sqrt{\frac{(c)}{(d)}} = \frac{1.0000}{1.0000} =$ 132

DELIVERABILITY CALCULATION

$D = Q$ 132 $\times \left(\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right)^N =$.8183 $=$.8432 $=$ 111

SUMMARY

$P_c =$ 877 D at 250 or 500 131 Company EL PASO NATURAL GAS CO.
 $Q =$ 132 Note: 250 # for P.C. By H. L. KENDRICK
 $P_w =$ 254 500 # for M.V. Title GAS ENGINEER
 $P_d =$ 439 Witnessed By _____
 $D =$ 111 133 Company _____



