

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

70159 Pool BLANCO Lease RIDDLE B No. 3  
 Formation MV Unit K S 23 T 30 R 10 Pay Zone 4408 to 5251 Cty. SJ  
 Casing - OD 7000 Wt. 2300 Set at 4343 Tubing - OD 2000 Wt. 0470 L 4408 (T. Perf.)  
 Operator EL PASO NATURAL GAS CO. Purchasing Pipeline EL PASO NATURAL GAS CO.

**OBSERVED DATA**

|                                   |                       |                                   |                    |
|-----------------------------------|-----------------------|-----------------------------------|--------------------|
| Period of Test Flow               |                       | S.I.P. Measured                   | Prod. String       |
| From <u>110759</u>                | To <u>111559</u>      | <u>101458</u>                     | O.D. <u>2.000</u>  |
| Deadweight Flowing Pressure, psia |                       |                                   |                    |
| Casing _____ (a)                  | Tubing _____ (b)      | Meter _____ (c)                   | Wt. <u>4.70</u>    |
| Flowing Pressure, psia            |                       | Deadweight Shut-in Pressure, psia |                    |
| Chart _____ (d)                   | Tubing <u>794</u> (k) | Casing <u>814</u> (j)             | Length <u>4408</u> |

Meter Error 0 (e) Friction Loss 0 (f) 7 Day Avg. Flowing Pres., psia Chart 483 (g) Corrected 483 (h)

**FRICITION CALCULATION**

Grav. .681  $P_i =$  483 (i)  $GL =$  3002  $(1-e^{-s}) =$  .196  
 $(F_c Q)^2 =$  11779  $(1-e^{-s})(F_c Q)^2 = R^2 =$  2309  $P_i^2 =$  233289  $P_w^2 =$  235598

**FLOW RATE CALCULATION**

$Q =$  365 (integrated)  $\times \sqrt{\frac{(c)}{(d)}} = \frac{1.0000}{1.0000} =$  365

**DELIVERABILITY CALCULATION**

$D = Q$  365  $\times \left( \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right)^N = \frac{1.1975}{1.1447} =$  418

SUMMARY

$P_c =$  794  
 $Q =$  365  
 $P_w =$  485  
 $P_d =$  397  
 $D =$  418

D at 250 or 500 345  
 Note:  
 250 # for P.C.  
 500 # for M.V.



Company EL PASO NATURAL GAS CO.  
 By H. L. KENDRICK  
 Title GAS ENGINEER  
 Witnessed By \_\_\_\_\_  
 Company 345

ck

