

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

71369 Pool BLANCO MV Lease STOREY No. 2  
Formation MV Unit M S 35 T 28 R 08 Pay Zone 4270 to 4944 Cty. SJ  
Casing - OD 5500 Wt. 1550 Set at 5000 Tubing - OD 2000 Wt. 6470 L 4859 (T. Perf.)  
Operator EL PASO NATURAL GAS CO. Purchasing Pipeline EL PASO NATURAL GAS CO.

OBSERVED DATA

Period of Test Flow  
From 050739 To 051559 S.I.P. Measured 090658 Prod. String O.D. 3.500

Deadweight Flowing Pressure, psia  
Casing        (a) Tubing        (b) Meter        (c) Wt. 15.50

Flowing Pressure, psia  
Chart        (d) Tubing 782 (k) Casing 779 (j) Length 4270  
Deadweight Shut-in Pressure, psia

Meter Error 0 (e) Friction Loss 0 (f) 7 Day Avg. Flowing Pres., psia 497 (g) Corrected 497 (h)

FRICTION CALCULATION

Grav. .727  $P_t =$  497 (i)  $GL =$  3104  $(1-e^{-x}) =$  .202

$(F_c Q)^2 =$  37  $(1-e^{-x})(F_c Q)^2 = R^2 =$  7  $P_t^2 =$  247009  $P_w^2 =$  247016

FLOW RATE CALCULATION

$Q =$  114  $\times \sqrt{\frac{(c)}{(d)}} = \frac{1.0000}{1.0000} =$  114  
(integrated)

DELIVERABILITY CALCULATION

$D = Q$  114  $\times \left( \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right)^N = \frac{1.2637}{1.1918} =$  136

SUMMARY

$P_c =$  779  
 $Q =$  114  
 $P_w =$  497  
 $P_d =$  390  
 $D =$  136

D at 250 or 500 110

Note:  
250# for P.C.  
500# for M.V.

Company EL PASO NATURAL GAS CO.  
By L. L. LUMBRICK  
Title GAS ENGINEER  
Witnessed By         
Company       

