

## 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

72435 Pool BLANCO Lease SAN JUAN 29 7 No. 72  
 Formation MV Unit B S 26 T 29 R 07 Pay Zone 4844 to 5456 Cty. RA  
 Casing - OD 7625 Wt. 2640 Set at 3368 Tubing - OD 1250 Wt. 0240 L 5425 (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>080759</u> | To                                | <u>081559</u>      |
|                                   |               |                                   | <u>050459</u>      |
|                                   |               |                                   | O.D. <u>1.250</u>  |
| Deadweight Flowing Pressure, psia |               |                                   |                    |
| Casing                            | <u>(a)</u>    | Tubing                            | <u>(b)</u>         |
|                                   |               | Meter                             | <u>(c)</u>         |
|                                   |               |                                   | Wt. <u>2.40</u>    |
| Flowing Pressure, psia            |               | Deadweight Shut-in Pressure, psia |                    |
| Chart                             | <u>(d)</u>    | Tubing                            | <u>1056 (k)</u>    |
|                                   |               | Casing                            | <u>1124 (j)</u>    |
|                                   |               |                                   | Length <u>5425</u> |

| Meter Error  | Friction Loss | 7 Day Avg. Flowing Pres., psia                |
|--------------|---------------|-----------------------------------------------|
| <u>0</u> (e) | <u>0</u> (f)  | Chart <u>511</u> (g) Corrected <u>511</u> (h) |

## FRICTION CALCULATION

Grav. .697  $P_i =$  511 (i)  $GL =$  3781  $(1-e^{-s}) =$  .240

$(F_c Q)^2 =$  1563412  $(1-e^{-s}) (F_c Q)^2 = R^2 =$  375219  $P_i^2 =$  261121  $P_w^2 =$  636340

## FLOW RATE CALCULATION

$Q =$  1606 (integrated)  $\times \sqrt{\frac{(c)}{(d)}} = \frac{1.0000}{1.0000} = 1.0000 =$  1606

## DELIVERABILITY CALCULATION

$D = Q$  1606  $\times \left[ \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^N =$  1.7467  $=$  1.5193  $=$  2440

## SUMMARY

 $P_c =$  1056D at 250 or 500 1604Company EL PASO NATURAL GAS CO. $Q =$  1606

Note:

By H. L. KENDRICK $P_w =$  798

250 # for P.C.

Title GAS ENGINEER $P_d =$  528

500 # for M.V.

Witnessed By \_\_\_\_\_

D = 24401604

Company \_\_\_\_\_



