

## NEW MEXICO OIL CONSERVATION COMMISSION

## GAS WELL TEST DATA SHEET — SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVARDE & ALL DAKOTA EXCEPT  
BARKER DOME STORAGE AREA)Initial  
Deliverability Test

72506 Pool SOUTH BLANCO Lease SJU 28 7 No. 116  
Formation PC Unit G S 17 T 27 R 07 Pay Zone 3362 to 3430 Cty. RA  
Casing - OD 5500 Wt. 1550 Set at 3465 Tubing - OD 1250 Wt. 0240 L 3328 (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>112159</u>         | To              | <u>112959</u>         | <u>090359</u> | O.D.                  | <u>1.250</u> |             |
| Deadweight Flowing Pressure, psia             |                       |                 |                       |               |                       |              |             |
| Casing                                        | <u>          </u> (a) | Tubing          | <u>          </u> (b) | Meter         | <u>          </u> (c) | Wt.          | <u>2.40</u> |
| Flowing Pressure, psia                        |                       |                 |                       |               |                       |              |             |
| Chart                                         | <u>          </u> (d) | Tubing          | <u>1013</u> (k)       | Casing        | <u>1013</u> (j)       | Length       | <u>3328</u> |
| Deadweight Shut-in Pressure, psia             |                       |                 |                       |               |                       |              |             |
| Meter Error                                   |                       |                 |                       |               |                       |              |             |
| <u>0</u> (e)                                  |                       |                 |                       |               |                       |              |             |
| Friction Loss                                 |                       |                 |                       |               |                       |              |             |
| <u>0</u> (f)                                  |                       |                 |                       |               |                       |              |             |
| 7 Day Avg. Flowing Pres., psia                |                       |                 |                       |               |                       |              |             |
| Chart <u>231</u> (g) Corrected <u>231</u> (h) |                       |                 |                       |               |                       |              |             |

## FRICTION CALCULATION

Grav. .638  $P_i =$  231 (i) GL = 2123  $(1-e^{-s}) =$  .143 $(F_c Q)^2 =$  143760  $(1-e^{-s})(F_c Q)^2 = R^2 =$  20558  $P_i^2 =$  53361  $P_w^2 =$  73919

## FLOW RATE CALCULATION

 $Q =$  487  $\times \sqrt{\frac{(c)}{(d)}} = \frac{1.0000}{1.0000} =$  487

## DELIVERABILITY CALCULATION

 $D = Q$  487  $\times \left( \frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right)^{.8076} =$  .8339  $=$  406

## SUMMARY

 $P_c =$  1013 $Q =$  487 $P_w =$  272 $P_d =$  507 $D =$  406D at 250 or 500 480

Note:

250 for P.C.

500 for M.V.

Company EL PASO NATURAL GAS CO.By H. L. KENDRICKTitle GAS ENGINEERWitnessed By                     Company                     