

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 Test74760 Pool BALLARD Lease MAGNOLIA POOL UNIT No. 1Formation PC Unit 0 S 32 T 27 R 09 Pay Zone 2288 to 2310 Cty. SJCasing - OD 5500 Wt. 1550 Set at 2392 Tubing - OD 1250 Wt. 0240 L 2275 (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>010759</u>	To <u>011559</u>	<u>111158</u>
			O.D. <u>5.500</u>
Deadweight Flowing Pressure, psia			
Casing	<u> </u> (a)	Tubing <u> </u> (b)	Meter <u> </u> (c)
			Wt. <u>15.50</u>
Flowing Pressure, psia		Deadweight Shut-in Pressure, psia	
Chart	<u> </u> (d)	Tubing <u>541</u> (k)	Casing <u>541</u> (j)
			Length <u>2288</u>

Meter Error

0 (e)

Friction Loss

0 (f)

7 Day Avg. Flowing Pres., psia

Chart 238 (g) Corrected 238 (h)

FRICTION CALCULATION

Grav. .669 $P_t =$ 238 (i) GL = 1531 $(1-e^{-s}) =$.105 $(F_c Q)^2 =$ 1 $(1-e^{-s})(F_c Q)^2 = R^2 =$ $P_t^2 =$ 56644 $P_w^2 =$ 56644

FLOW RATE CALCULATION

$$Q = \frac{25}{(\text{integrated})} \times \left[\sqrt{\frac{(c)}{(d)}} \frac{1.0000}{1.0000} \right] = \frac{1.0000}{1.0000} = 25$$

DELIVERABILITY CALCULATION

$$D = Q \frac{25}{\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^N} = \frac{.9288}{.9391} = 23$$

SUMMARY

 $P_c =$ 541 $Q =$ 25 $P_w =$ 238 $P_d =$ 271 $D =$ 23D at 250 or 500 24

Note:

250 # for P.C.

500 # for M.V.

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

