(EL PASO)

NEW MEXICO OIL CONSERVATION COMMISSION

Initial Deliverability Test

GAS WELL TEST DATA SHEET — SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE & ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA)

74944 Pool SOUTH BLANCO Lease VAUGHN No. 5

Formation PC Unit L S 29 T 26 R 06 Pay Zone 2906 to 2930 Cty. RA

Casing - OD 5500 Wt. 1550 Set at 2980 Tubing - OD 1250 Wt. 0240 L 2915 (T. Perf.)

Operator EL PASO NATURAL GAS CO. Purchasing Pipeline EL PASO NATURAL GAS CO.

OBSERVED DATA

Period of Test Flow: From 032260 To 033060

S.I.P. Measured: ~~120769~~ 120759

Prod. String: O.D. 5.500

Deadweight Flowing Pressure, psia: Casing _____ (a) Tubing _____ (b) Meter _____ (c)

Wt. 15.50

Flowing Pressure, psia: Chart _____ (d)

Deadweight Shut-in Pressure, psia: Tubing 797 (k) Casing 797 (j)

Length 2906

Meter Error: 0 (e) Friction Loss: 0 (f) 7 Day Avg. Flowing Pres., psia: Chart 242 (g) Corrected 242 (h)

FRICTION CALCULATION

Grav. .670 P_t = 242 (i) GL = 1947 $(1-e^{-s})$ = .132

$(F_cQ)^2$ = 215 $(1-e^{-s})(F_cQ)^2 = R^2$ = 28 P_t^2 = 58564 P_w^2 = 58592

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{369} \times \left[\sqrt{\frac{(c)}{(d)} \quad 1.0000} = 1.0000\right] = 369$$

DELIVERABILITY CALCULATION

$$D = Q \quad 369 \times \left(\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = .8254\right]^N = .8495\right) = 313$$

RECEIVED MAY 8 1960 OIL CON. COM. DIST. 3

SUMMARY

P_c = 797

Q = 369

P_w = 242

P_d = 399

D = 313

D at 250 or 500 364

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

368

Company EL PASO NATURAL GAS CO.

By H. L. KENDRICK

Title GAS ENGINEER

Witnessed By _____

Company _____