

Initial Deliverability
TestNEW 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)

7291001

Pool Basin Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____Operator El Paso Natural Gas Lease McCulley Well No. 5
Unit N Sec. 24 Twp. 28 Rge. 9 Pay Zone: From 6750 To 6947
Casing: OD 5-1/2 WT. 17.0820.0 Set At 6985 Tubing: OD 2-3/8 WT. 4.70 T. Perf. 6867
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .696 Estimated _____
Date of Flow Test: From 6/6/61 To 6/14/61 * Date S.I.P. Measured 9/27/60
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 2081 psig + 12 = 2093 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1981 psig + 12 = 1993 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

$$Q = \frac{601}{(\text{integrated})} \times \left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{\text{ }{\text{ }}}{\sqrt{(d)} = \frac{\text{ }{\text{ }}}}} \right) = 601 \text{ MCF/da}$$

$$D = Q \frac{601}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{2978040}{3722560} \right]^n \frac{.7999}{.8459}} = 508 \text{ MCF/da}$$

SUMMARY

P_c = 1993 psia
Q = 601 Mcf/day
P_w = 499 psia
P_d = 997 psia
D = 508 Mcf/dayCompany El Paso Natural Gas Co.
By Original signed by
Title _____
Witnessed by H. L. Kendrick
Company _____

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
4779	.294	31.934	9.389	240,100	249,489	499

D at 500 = 598

RECEIVED

JUL 14 1961

OIL CON. COM.
DIST. 2

RECEIVED