

Initial Deliverability
Test
72922

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)

Pool _____ Basin Dakota Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Michener Well No. 3
Unit M Sec. 15 Twp. 28 Rge. 9 Pay Zone: From 6673 To 6864
Casing: OD 5-1/2 WT. 17 Set At 6961 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 6767
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .708 Estimated _____
Date of Flow Test: From 5/29/61 To 6/6/61 * Date S.I.P. Measured 9/7/60
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:
(b) - (c) Flow through tubing; (a) - (c) Flow through casing _____ = _____ psi (f)
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. _____ = 190 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 190 psia (h)
P_t = (h) + (f) _____ = 190 psia (i)
Wellhead casing shut-in pressure (Dwt) 2015 psig + 12 = 2027 psia (j)
Wellhead tubing shut-in pressure (Dwt) 2007 psig + 12 = 2019 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 2019 psia (l)
Flowing Temp. (Meter Run) 83 °F + 460 _____ = 513 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 1010 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{889} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 889 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{753} \text{ MCF/da.}$
3056261 .8009
3815723 .8466

SUMMARY

P_c = 2019 psia Company El Paso Natural Gas
Q = 889 Mcf/day By _____
P_w = 511 psia Title _____
P_d = 1010 psia Witnessed by H. L. Kendrick
D = 753 Mcf/day 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
4791	0.294	69856	20538	240100	260638	511

D at 500 = 885

