

Initial Deliverability
Test

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 San Juan Formation Dakota County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease Montezuma Well No. 60
Unit 1 Sec. 04 Twp. 26 Rge. 09 Pay Zone: From 6134 To 6136
Casing: OD 3000 WT. 1500 Set At 6150 Tubing: OD 2375 WT. 0470 T. Perf. 6143
Produced Through: Casing _____ Tubing 1 Gas Gravity: Measured .699 Estimated _____
Date of Flow Test: From 4-7-61 To 4-15-61 Date S.I.P. Measured 11-29-60
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. _____ = _____ 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) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = _____ psia (n)

Q = 1099 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \frac{1.0000}{\sqrt{(d)}} = \frac{1.0000}}{\sqrt{(d)}} \right)^* = \underline{1099} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 1099 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{.0049}{.0049} \right]^n = \underline{.2497} = \underline{99\%} \text{ MCF/da.}$

SUMMARY

P_c = 1992 psia
Q = 1099 Mcf/day
P_w = 990 psia
P_d = 990 psia
D = 990 Mcf/day

Company El Paso Natural Gas Company
By H. L. Kendrick Gas Engineer
Title Original signed by
Witnessed by H. L. Kendrick
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(FcQ) ²	(FcQ) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>4774</u>	<u>.003</u>	<u>106772</u>	<u>30236</u>	<u>240000</u>	<u>270236</u>	<u>990</u>

3 at 900 = 1094

SUMMARY CONT.

