

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)

78-484-01

Pool South Platte Formation Pictured Cliffs County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Minson Unit Well No. 102
Unit I Sec. 06 Twp. 27N Rge. 04 Pay Zone: From 3050 To 3012
Casing: OD 3.90 WT. 10.5 Set At 3360 Tubing: OD 1.315 WT. 2.4 T. Perf. 3300
Produced Through: Casing _____ Tubing I Gas Gravity: Measured 0.97 Estimated _____
Date of Flow Test: From 10/20/58 To 10/30/58 * Date S.I.P. Measured 6/21/58 (9 days)
Meter Run Size _____ Orifice Size _____ Type Chart _____ Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (c)
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 (c)
Square root chart reading (_____)² x spring constant _____ = _____ psia (c)
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 (7.00)² x sp. const. 5 = _____ 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) 1013 psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1014 psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 57 °F + 460 _____ = _____ °Abs (r)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (u)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \frac{495}{1014} = 0.488$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 495 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{495}{0.825} = 599$ MCF/day

SUMMARY

P_c = 1013 psia
Q = 495 Mcf/day
P_w = 294 psia
P_d = 505 psia
D = _____ Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
Witnessed by _____
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
<u>2300</u>	<u>.175</u>	<u>103.405</u>	<u>19.490</u>	<u>6702</u>	<u>6802</u>	<u>294</u>

D at 230 = 454

