

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 El Paso Mesa Verde Formation Mesa Verde County El Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 28-6 Well No. 17
Unit L Sec. 31 Twp. 28N Rge. 6W Pay Zone: From 4960 To 5445
Casing: OD 54 WT. 15.5 Set At 4960 Tubing: OD 2 WT. 4.7 T. Perf. 5795
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 6/9 To 6/27/56 * Date S.I.P. Measured 1/23/55
Meter Run Size 4 Orifice Size _____ Type Chart Sp. Rt. Type Taps Flange

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 (7.40) ² x sp. const. 1000 = 51.9 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 51.9 psia (h)
P_t = (h) + (f) = 51.9 psia (i)
Wellhead casing shut-in pressure (Dwt) 1306 psig + 12 = 1318 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1301 psig + 12 = 1313 psia (k)
P_c = (j) or (k) whichever well flowed through = 1313 psia (l)
Flowing Temp. (Meter Run) 66 °F + 460 = _____ °Abs (m)
P_d = ½ P_c = ½ (l) = 657 psia (n)

FLOW RATE CALCULATION

Q = 227 X $\left(\frac{\sqrt{P_c}}{\sqrt{P_d}} \right)^* =$ _____ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 227 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n =$ _____ MCF/da.
900,500
937,507
.9956
.99991

SUMMARY

P_c = 1313 psia
Q = 227 Mcf/day
P_w = 51.9 psia
P_d = 657 psia
D = 225 Mcf/day

Company El Paso Natural Gas Company
By Original Signed
Title _____
Witnessed by Lewis D. Galloway
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})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3798</u>	<u>.241</u>	<u>4.534</u>	<u>1.098</u>	<u>900,500</u>		

• 500 = 234

AK



RECEIVED MOBILE 19 JUN 1964
1414Z JUN 64

222
45
177

