

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)

72-198-02

Pool El Paso Formation El Paso County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Delack Well No. 18-8 (M)
Unit A Sec. 29 Twp. 27 Rge. 8 Pay Zone: From 4974 To 4685
Casing: OD 7-5/8 WT. 26.4 Set At 4695 Tubing: OD 2" WT. 4.7 T. Perf. 4697
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .725 Estimated _____
Date of Flow Test: From 7/29/58 To 8/9/58 * Date S.I.P. Measured 4/26/58 (9 days)
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 (6.95)² x sp. const. 10 = 483 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 483 psia (h)
P_t = (h) + (f) = 483 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1804 psig + 12 = 1816 psia (k)
P_c = (j) or (k) whichever well flowed through = 1816 psia (l)
Flowing Temp. (Meter Run) 76 °F + 460 = 526 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 908 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right)^* = \underline{606}$ MCF/day
(integrated) $\sqrt{(d)} = \dots$

DELIVERABILITY CALCULATION

D = Q 606 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{719}$ MCF/day
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1816^2 - 908^2}{1816^2 - 490^2}$

SUMMARY

P_c = 1816 psia
Q = 606 Mcf/day
P_w = 490 psia
P_d = 908 psia
D = 719 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>525</u>	<u>.214</u>	<u>32.407</u>	<u>6.948</u>	<u>33289</u>	<u>34007</u>	<u>490</u>

D at 700 = 792

Page 10
of 10
10/10/10

10/10/10

10/10/10

10/10/10

10/10/10

10/10/10

10/10/10