

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 Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease Heaton Well No. 6 (M)
Unit B Sec. 33 Twp. 31 Rge. 11 Pay Zone: From 4695 To 4772
Casing: OD 5 1/2 WT. 15.5 Set At 4944 Tubing: OD 2 WT. 4.7 T. Perf. 4715
Produced Through: Casing _____ Tubing I Gas Gravity: Measured 680 Estimated _____
Date of Flow Test: From 11/8/56 To 11/16/56 * Date S.I.P. Measured 7/16/56
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: _____ = _____ psi (f)
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.30)² x sp. const. 10 = 533 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 533 psia (h)
P_t = (h) + (f) = 533 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 989 psig + 12 = 1001 psia (k)
P_c = (j) or (k) whichever well flowed through = 1001 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 501 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{733} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 733 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{766} \text{ MCF/da.}$
 $\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{751,000}{708,032}$ $\frac{1.0606}{1.0451}$

SUMMARY

P_c = 1001 psia
Q = 733 Mcf/day
P_w = 542 psia
P_d = 501 psia
D = 766 Mcf/day

Company El Paso Natural Gas Company
By L.D. Galloway
Title Sr. Gas Engineer
Witnessed by _____
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})	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3206</u>	<u>.208</u>	<u>47.500</u>	<u>9880</u>	<u>284,089</u>	<u>293,969</u>	<u>542</u>

D @ 500 = 750

OK



