

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 Date Test Filed _____
Operator El Paso Natural Gas Lease Horton Well No. 9 (M)
Unit B Sec. 32 Twp. 31 Rge. 11 Pay Zone: From 4651 To 4766
Casing: OD 5 1/2 WT. 15.5 Set At 4902 Tubing: OD 2 WT. 4.7 T. Perf. 4659
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .675 Estimated _____
Date of Flow Test: From 6/8/57 To 6/16/57 * Date S.I.P. Measured 3/20/57 (17 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 (e)
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 (7.25)² x sp. const. 10 = 526 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 526 psia (h)
P_t = (h) + (f) = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1074 psig + 12 = 1086 psia (k)
P_c = (j) or (k) whichever well flowed through 69 = 529 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 = 543 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = _____ psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{428} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 428 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{884,547}{889,417} \cdot \frac{0.9834}{.9875} = \text{423} \text{ MCF/da.}$

SUMMARY

P_c = 1086 psia
Q = 428 Mcf/day
P_w = 529 psia
P_d = 543 psia
D = 423 Mcf/day
Company El Paso Natural Gas Company
By Original Signed
Title Lewis D. Galloway
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
3145	.204	16.193	3,303	276,676	279,979	529

D at 500 = 433

OK



