

Initial Deliverability
Test

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

Operator El Paso Natural Gas Lease Graham Well No. 1-A
Unit A Sec. 24 Twp. 25 Rge. 8 Pay Zone: From 2174 To 2255
Casing: OD 5-1/2 WT. 14.0 Set At 2296 Tubing: OD 1 WT. 1.68 T. Perf. 2211
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .670 Estimated _____
Date of Flow Test: From 10/1 To 10/9/57 * Date S.I.P. Measured 10/18/56
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:
(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 (7.05)² x sp. const. .5 = .249 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 249 psia (h)
P_t = (h) + (f) = 249 psia (i)
Wellhead casing shut-in pressure (Dwt) 654 psig + 12 = 666 psia (j)
Wellhead tubing shut-in pressure (Dwt) 655 psig + 12 = 667 psia (k)
P_c = (j) or (k) whichever well flowed through = 666 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 = 522 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 333 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{V(c)}{V(d)}} \right)^* = \underline{999}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 999 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{.8718}$ $\underline{.8900}$ = 889 MCF/da.

SUMMARY

P_c = 666 psia Company El Paso Natural Gas
Q = 999 Mcf/day By Original Signed
P_w = 249 psia Title Lewis D. Galloway
P_d = 333 psia Witnessed by _____
D = 889 Mcf/day 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
			FRICTION NEGLIGIBLE			

D at 250 = 984

