

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 Otero Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Bolack Well No. 4-D
Unit D Sec. 1 Twp. 24 Rge. 6 Pay Zone: From 2490 To 2558
Casing: OD 5-1/2 WT. 15.5 Set At 2618 Tubing: OD 1-1/4 WT. 2.3 T. Perf. 2534
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .683 Estimated _____
Date of Flow Test: From 5/1/58 To 5/9/58 * Date S.I.P. Measured 7/22/57
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 (7.25)² x sp. const. 5 = 263 ✓ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 263 ✓ psia (h)
P_t = (h) + (f) = 263 ✓ psia (i)
Wellhead casing shut-in pressure (Dwt) 713 psig + 12 = 725 ✓ psia (j)
Wellhead tubing shut-in pressure (Dwt) 713 psig + 12 = 725 ✓ psia (k)
P_c = (j) or (k) whichever well flowed through = 725 ✓ psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 ✓ ° Abs (m)
P_d = ½ P_c = ½ (l) = 363 ✓ psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \text{157}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION
D = Q 157 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{(.8628)^{.85}}{.8820} = \text{139}$ ✓ MCF/da.
 $\frac{393856}{456456}$

SUMMARY
P_c = 725 ✓ psia
Q = 157 ✓ Mcf/day
P_w = 263 ✓ psia
P_d = 363 ✓ psia
D = 139 ✓ Mcf/day
Company El Paso Natural Gas
By Harold L. Hendricks
Title _____
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
			Friction Negligible			

D at 250 = 157



