

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 Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Lessee Newberry Well No. 5
Unit 0 Sec. 5 Twp. 31N Rge. 12W Pay Zone: From 4680 To 4836
Casing: OD 7 5/8 WT. 28.4 Set At 4610 Tubing: OD 2 WT. 4.7 T. Perf. 4781
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .700 Estimated _____
Date of Flow Test: From 7/8 To 7/16 * Date S.I.P. Measured 5/28/56
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Rt. Type Taps Flange

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 _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.50)² x sp. const. 10 _____ = 563 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 563 psia (h)
P_t = (h) + (f) _____ = 563 psia (i)
Wellhead casing shut-in pressure (Dwt) 1063 psig + 12 = 1075 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1060 psig + 12 = 1072 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1072 psia (l)
Flowing Temp. (Meter Run) 87 °F + 460 _____ = 547 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 536 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right)^* = \underline{982}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 982 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{1025}$ MCF/da.
 $\frac{861,888}{813,801}$ $\frac{1.0590}{1.0440}$

SUMMARY

P_c = 1072 psia
Q = 982 Mcf/day
P_w = 579 psia
P_d = 536 psia
D = 1025 Mcf/day
Company El Paso Natural Gas Company
By _____ Original Signed
Title _____
Witnessed by Lewis D. Galloway
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
3347	.216	85.248	18,414	316,969	318,213	579

D @ 500 = 1030



