

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)

72-176

Pool Blanco Mesa Verde Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Bolack Well No. 10-C
Unit A Sec. 26 Twp. 27N Rge. 8W Pay Zone: From 4390 To 4498
Casing: OD 5-1/2 WT. 15.5 Set At 4625 Tubing: OD 2" WT. 4.7 T. Perf. 4510
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .725 Estimated _____
Date of Flow Test: From 7/22/58 To 7/30/58 * Date S.I.P. Measured 3/31/58 (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 (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 (6.95)² x sp. const. 10 _____ = 483 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 483 psia (h)
P_t = (h) + (f) _____ = 483 psia (i)
Wellhead casing shut-in pressure (Dwt) 1065 psig + 12 = 1077 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1050 psig + 12 = 1062 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1062 psia (l)
Flowing Temp. (Meter Run) 75 °F + 460 _____ = 535 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 531 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \text{_____} = \text{_____}} \right) = \text{783 MCF/da}$
(integrated) $\sqrt{(d)} = \text{_____}$

DELIVERABILITY CALCULATION

D = Q 783 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{.9578^{.75}}{.9682} = \text{758 MCF/da.}$

SUMMARY

P_c = 1062 psia
Q = 783 Mcf/day
P_w = 495 psia
P_d = 531 psia
D = 758 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Harold L. Kendrick
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
3270	.212	54.199	11.490	233.289	244.779	495

D at 500 = 764

