

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)

72-164

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 Schwerdtfeger Well No. 9-A (M)
Unit A Sec. 31 Twp. 28N Rge. 8W Pay Zone: From 5227 To 5373
Casing: OD 7-5/8 WT. 26.4 Set At 5118 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 5305
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .714 Estimated _____
Date of Flow Test: From _____ To _____ * Date S.I.P. Measured _____
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 (6.85) ² x sp. const. 10 _____ = 469 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 469 psia (h)
P_t = (h) + (f) _____ = 469 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1044 psig + 12 = 1056 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1056 psia (l)
Flowing Temp. (Meter Run) 76 °F + 460 _____ = 536 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 528 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ } }{\sqrt{(d)}} = \text{ } } \right)^* = \underline{1384}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 1384 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \frac{836,352}{854,368}^n = \frac{.9789^{.75}}{.9841} = \underline{1362}$ MCF/da.

SUMMARY

P_c = 1056 psia
Q = 1384 Mcf/day
P_w = 511 psia
P_d = 528 psia
D = 1362 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
3788	.241	169.323	40.807	219.961	260.768	511

D at 500 = 1335

