

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)

72-077

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

Operator El Paso Natural Gas Lease Schwerdtfeger Well No. 10-A (M)
Unit M Sec. 31 Twp. 28N Rge. 8W Pay Zone: From 4350 To 4528
Casing: OD 5-1/2 WT. 15.5 Set At 4605 Tubing: OD 2 WT. 4.7 T. Perf. 4414
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .722 Estimated _____
Date of Flow Test: From 4/9/58 To 4/17/58 * Date S.I.P. Measured 10/4/57
Meter Run Size _____ Orifice Size 1.500 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 (7.50)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) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1069 psig + 12 = 1081 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1081 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 541 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^* = \underline{1443} \text{ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1443 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{875880}{813491} \times \frac{1.0766}{1.0569} = \underline{1525} \text{ MCF/da.}$

SUMMARY

P_c = 1081 psia
Q = 1443 Mcf/day
P_w = 596 psia
P_d = 541 psia
D = 1525 Mcf/day

Company El Paso Natural Gas
By Harold L. Kendrick
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
3187	.207	184.063	38,101	316,969	355070	596

D at 500 = 1512

OK

