

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 Formation Mesa Verde County Rio Arriba
Purchasing Pipeline Pacific Northwest Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 27-5 Unit Well No. 22
Unit L Sec. 1 Twp. 27 Rge. 5 Pay Zone: From 6600 To 6614
Casing: OD 5-1/2 WT. _____ Set At 6700 Tubing: OD 2 WT. _____ T. Perf. 5591
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .690 Estimated _____
Date of Flow Test: From 10/23 To 10/31/57 * Date S.I.P. Measured 6/5/57
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 (7.22)² x sp. const. 1.0 _____ = 521 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 521 psia (h)
P_t = (h) + (f) _____ = 521 psia (i)
Wellhead casing shut-in pressure (Dwt) 1125 psig + 12 = 1137 psia (j)
Wellhead tubing shut-in pressure (Dwt) 703 psig + 12 = 715 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1137 psia (l)
Flowing Temp. (Meter Run) 64 °F + 460 _____ = 524 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 569 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^{.}$ = 733 MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 733 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{969,008}{1,008,028} \right]^n \frac{.9612}{.9707} = \text{_____} = \text{_____} \text{ MCF/day.}$

SUMMARY

P _c =	<u>1137</u> +	psia	Company	<u>El Paso Natural Gas</u>
Q =	<u>733</u>	Mcf/day	By	<u>Original Signed</u>
P _w =	<u>534</u>	psia	Title	<u>Lewis D. Galloway</u>
P _d =	<u>569</u>	psia	Witnessed by	_____
D =	<u>712</u>	Mcf/day	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
<u>4520</u>	<u>.280</u>	<u>47.500</u>	<u>13.300</u>	<u>271,441</u>	<u>284,741</u>	<u>534</u>

* P_c was used as 1137 psig due to low tubing pressure.

D at 500 = 738

OK

X