

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)

70980

Pool Blanco Formation Mesa Verde County San Arriba

Purchasing Pipeline El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease San Juan 28-6 Well No. 22

Unit H Sec. 8 Twp. 27 Rge. 6 Pay Zone: From 4788 To 5475

Casing: OD 7" WT. 20 Set At 4750 Tubing: OD 2" WT. 4.7 T. Perf. 4703

Produced Through: Casing _____ Tubing X Gas Gravity: Measured .670 Estimated _____

Date of Flow Test: From 4-7-58 To 4-15-58 * Date S.I.P. Measured 11-29-57

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 (7.5) 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) 972 psig + 12 = 984 psia (j)
Wellhead tubing shut-in pressure (Dwt) 616 psig + 12 = 628 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 984 + _____ psia (l)
Flowing Temp. (Meter Run) 53 °F + 460 _____ = 513 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 492 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{V(c)}{V(d)} \right)^* = \underline{180}$ MCF/day
(integrated)

DELIVERABILITY CALCULATION

D = Q 180 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{195}$ MCF/day
 $\left[\frac{726192}{650700} \right]^n = \frac{(1.1160)^{.78}}{(1.0858)}$

SUMMARY

P_c = 984 psia Company El Paso Natural Gas
Q = 180 Mcf/day By Original Signed
P_w = 564 psia Title _____
P_d = 492 psia Witnessed by Gold L. Kendrick
D = 195 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>3151</u>	<u>.205</u>	<u>2.863</u>	<u>1</u>	<u>316,969</u>	<u>317,556</u>	<u>564</u>

+ SIPC used for P_c because tubing was perforated 3-21-58

D at 500 = 191

OK

