

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)

72-337-01

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

Operator El Paso Natural Gas Lease San Juan 27-5 Well No. 36 (M)
Unit Q Sec. 36 Twp. 27 Rge. 5 Pay Zone: From 6070 To 6204
Casing: OD 7-5/8 WT. 26.5 Set At 4108 Tubing: OD 2 WT. 4.7 T. Perf. 6099
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 700 Estimated _____
Date of Flow Test: From 11/7/58 To 11/15/58 * Date S.I.P. Measured 7/28/58 (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 (7.40)² x sp. const. 10 _____ = 548 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 548 psia (h)
P_t = (h) + (f) _____ = 548 psia (i)
Wellhead casing shut-in pressure (Dwt) Dual psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1086 psig + 12 = 1098 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1098 psia (l)
Flowing Temp. (Meter Run) 65 °F + 460 _____ = 525 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 549 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right)^* = \underline{530} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 530 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{10061}{10046} = \underline{532} \text{ MCF/da.}$

SUMMARY

P _c =	<u>1098</u>	psia	Company	<u>El Paso Natural Gas</u>
Q =	<u>530</u>	Mcf/day	By	<u>Original Signed</u>
P _w =	<u>554</u>	psia	Title	<u>Harold L. Kendrick</u>
P _d =	<u>549</u>	psia	Witnessed by	_____
D =	<u>532</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>4269</u>	<u>.267</u>	<u>24,830</u>	<u>6,630</u>	<u>300304</u>	<u>306,934</u>	<u>554</u>

D at 500 = 547

