

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 El Paso Natural Gas Date Test Filed _____

Operator El Paso Natural Gas Lease Turner State Well No. 3
Unit H Sec. 36 Twp. 30 Rge. 6 Pay Zone: From 5624 To 6130
Casing: OD 7 WT. 23 Set At 5575 Tubing: OD 2.875 WT. 6.45 T. Perf. 5812
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .680 Estimated _____
Date of Flow Test: From 10/31 To 11/3/57 * Date S.I.P. Measured 7/8/57
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 (7.35) ² x sp. const. _____ = 511 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 511 psia (h)
P_t = (h) + (f) = 511 psia (i)
Wellhead casing shut-in pressure (Dwt) 1095 psig + 12 = 1097 psia (j)
Wellhead tubing shut-in pressure (Dwt) 895 psig + 12 = 907 psia (k)
P_c = (j) or (k) whichever well flowed through = 1097 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 = 514 °Abs (m)
P_d = ½ P_c = ½ (l) = 549 psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\sqrt{(d)}}{\sqrt{(d)}} \right)^* = \underline{537} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 537 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{.9595}{.9695} = \underline{521} \text{ MCF/da.}$
902,008
935,793
940,067

SUMMARY

P_c = 1097 psia Company El Paso Natural Gas
Q = 537 Mcf/day By Original Signed
P_w = 513 psia Title Lewis D. Galloway
P_d = 549 psia Witnessed by _____
D = 521 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
3959	.250	<u>8.882</u> <u>25.492</u>	<u>2.221</u>	<u>261,121</u>	<u>263,342</u> <u>261,121</u>	<u>513</u> <u>513</u>

+ - SIPC used for P_c because of low SIPT

D at 500 = 537

