

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 Elmco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease San Juan 211-7 Unit Well No. 59
Unit B Sec. 29 Twp. 28 Rge. 7 Pay Zone: From 4300 To 5018
Casing: OD 5.5 WT. 15.5 Set At 5113 Tubing: OD 2 WT. 4.7 T. Perf. 4985
Produced Through: Casing _____ Tubing I Gas Gravity: Measured .700 Estimated _____
Date of Flow Test: From 10/23/56 To 10/31/56 * Date S.I.P. Measured 6/20/56
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 (7.20) ² x sp. const. 10 _____ = 518 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 518 psia (h)
P_t = (h) + (f) _____ = 518 psia (i)
Wellhead casing shut-in pressure (Dwt) 1030 psig + 12 = 1042 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1030 psig + 12 = 1042 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1042 psia (l)
Flowing Temp. (Meter Run) 72 °F + 460 _____ = 532 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 521 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{892}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 892 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{902}$ MCF/da.
 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right] = \frac{614,323}{801,463}$ $n = \frac{1.0157 \cdot 75}{1.01175}$

SUMMARY

P_c = _____ psia
Q = 892 Mcf/day
P_w = 513 psia
P_d = 521 psia
D = 902 Mcf/day

Company El Paso Natural Gas
By L. D. Callaway
Title Dr. Gas Engineer
Witnessed by _____
Company _____

* This is date of completion test.
* Meter error correction factor _____

RESISTANCE TO FRICTION CALCULATIONS

GL	(1-e ^{-S})	(FQ) ²	(FQ) ²	(1-e ^{-S})	P _t ²	P _t ² + R ²	P _w
			R ²		(Column i)		
<u>3490</u>	<u>.224</u>	<u>70.342</u>	<u>15,757</u>		<u>268,354</u>	<u>268,081</u>	<u>513</u>

D₅₀₀₀ = 897



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