

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 San Juan
Purchasing Pipeline El Paso Natural Gas Date Test Filed _____
Operator El Paso Natural Gas Lease Storrey Well No. 10-6 (M)
Unit M Sec. 35 Twp. 28 Rge. 9 Pay Zone: From 4594 To 4662
Casing: OD 5-1/2 WT. 15.5 Set At 4747 Tubing: OD 2 WT. 4.7 T. Perf. 4608
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .710 Estimated _____
Date of Flow Test: From 8/17 To 8/24/57 * Date S.I.P. Measured 3/21/57 (14 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 (6.95)² x sp. const. 10 _____ = 483 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 483 psia (h)
P_t = (h) + (f) _____ = 483 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1054 psig + 12 = 1066 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1066 psia (l)
Flowing Temp. (Meter Run) 82 °F + 460 _____ = 542 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 533 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right)^{1/2} = \text{1909} \text{ MCF/day}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1909 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.0209}{1.0156} = \text{1939} \text{ MCF/day}$

SUMMARY

P_c = 1066 psia
Q = 1909 Mcf/day
P_w = 549 psia
P_d = 533 psia
D = 1939 Mcf/day

Company El Paso Natural Gas
By Original Signed
Title Lewis D. Galloway
Witnessed by _____
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 1)	P _t ² + P _w ²	P _w
<u>3272</u>	<u>.212</u>	<u>322.131</u>	<u>68,292</u>	<u>233,289</u>	<u>301,521</u>	<u>549</u>

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