

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 El Paso Formation San Juan County El Paso
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease San Juan 28-7 1949 Well No. 46
Unit 1 Sec. 16 Twp. 28 Rge. 7 Pay Zone: From 4945 To 9008
Casing: OD 9 1/2 WT. 15.5 Set At 9273 Tubing: OD 2 WT. 4.7 T. Perf. 5155
Produced Through: Casing _____ Tubing X Gas Gravity: Measured 705 Estimated _____
Date of Flow Test: From 10-9-56 To 10-17-56 * Date S.I.P. Measured 9-9-56 (18 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 (7.15) ² x sp. const. 10 _____ = 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) 1072 psig + 12 = 1084 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1073 psig + 12 = 1085 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1085 psia (l)
Flowing Temp. (Meter Run) 67 °F + 460 _____ = 527 ° Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 543 psia (n)

FLOW RATE CALCULATION

Q = _____ X $\left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \underline{796}$ MCF/da
(integrated)

DELIVERABILITY CALCULATION

D = Q 796 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \underline{793}$ MCF/da.
.9709 .9701

SUMMARY

P_c = 1085 psia
Q = 796 Mcf/day
P_w = 511 psia
P_d = 543 psia
D = 793 Mcf/day

Company El Paso Natural Gas Company
By P. Hallows
Title _____
Witnessed by _____
Company _____

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(E _c Q) ²	(FcQ) ² (1-e ^{-S})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
<u>36%</u>	<u>.832</u>	<u>31.405</u>	<u>7005</u>	<u>501.121</u>		<u>511</u>



Dee

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