

Initial Deliverability
Test

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 MV County SJ
Purchasing Pipeline KPMO Date Test Filed _____
Operator KPMO Lease Hancock Well No. 4 (M)
Unit M Sec. 23 Twp. 28 Rge. 9 Pay Zone: From 5500 To 5636
Casing: OD 5-1/2 WT. 15.5# Set At 5716 Tubing: OD 2 WT. 4.7 T. Perf. 5556
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .717 Estimated _____
Date of Flow Test: From 9-13-59 To 9-21-59 * Date S.I.P. Measured 6-16-59 (11 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 478 psig + 12 = 490 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 490 psia (h)
P_t = (h) + (f) _____ = 490 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 933 psig + 12 = 945 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 945 psia (l)
Flowing Temp. (Meter Run) 71 °F + 460 _____ = 531 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 473 psia (n)

Q = 9134 / 8 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \dots = \dots} \right) = \dots$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 1142 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n = \frac{1.0726}{1.0540} = \dots$ Mcf/day.

SUMMARY

P_c = 945 psia
Q = 1142 Mcf/day
P_w = 519 psia
P_d = 473 psia
D = 1204 Mcf/day

Company El Paso Natural Gas Company
By _____
Title Original Signed
Witnessed by Harold I. Kendrick
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>3984</u>	<u>.251</u>	<u>115.283</u>	<u>28,936</u>	<u>240100</u>	<u>269036</u>	<u>519</u>

D500 = 1113