

72459 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 Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Co. Lease Hancock Well No. 3 (H)
Unit M Sec. 22 Twp. 28 Rge. 9 Pay Zone: From 5274 To 5706
Casing: OD 5 1/2 WT. 15.54 Set At 5774 Tubing: OD 2 WT. 4.7 T. Perf. 3647
Produced Through: Casing _____ Tubing _____ Gas Gravity: Measured .715 Estimated _____
Date of Flow Test: From 9-21-59 To 9-29-59 * Date S.I.P. Measured 9-20-59
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 (_____) ² x sp. const. 471 = 483 psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = 483 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 483 psia (j)
Wellhead tubing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through 949 = 961 psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = 961 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) 67 = 481 psia (n)

Q = 2579 (integrated) × $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} \right) = \underline{322}$

D = Q 322 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = \underline{323}$
694160 1.0061
687905 1.0046

SUMMARY

P_c = _____ psia
Q = 961 Mcf/day
P_w = 322 psia
P_d = 485 psia
D = 481 Mcf/day

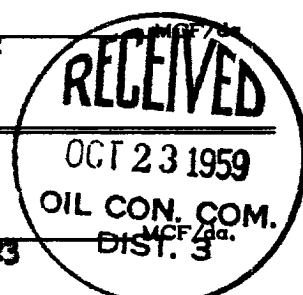
Company _____
By EL PASO NATURAL GAS COMPANY
Title _____
Witnessed by _____
Company Harold L. Kendrick

- * This 323 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>4038</u>	<u>.254</u>	<u>9.163</u>	<u>2327</u>	<u>233869</u>	<u>233606</u>	<u>483</u>

D500 = 312



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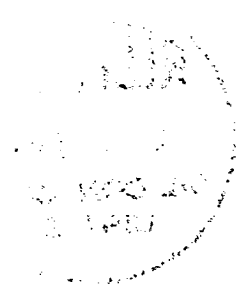
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