

Initial Deliverability
Test

Form C-122-A
Revised April 20, 1955

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 Manco Formation Mesaverte County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Date Test Filed -
Operator Magnolia Petroleum Company Lease Clearville "D" Well No. 1
Unit N Sec. 24 Twp. 26N Rge. 4W Pay Zone: From 5586' To 6090'
Casing: OD 5 1/2" WT. 24 Set At 6170' Tubing: OD 2 1/8" WT. 4.78 T. Perf. 5592'
Produced Through: Casing - Tubing X Gas Gravity: Measured 0.60 Estimated -
Date of Flow Test: From 6/2/58 To 7/7/58 * Date S.I.P. Measured 11/20/57
Meter Run Size 4.026 Orifice Size 1.000" Type Chart exp. rt. Type Taps Flange

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. 10 _____ = 176 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 176 psia (h)
P_t = (h) + (f) _____ = 176 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1661 psig + 12 = 1673 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1673 psia (l)
Flowing Temp. (Meter Run) 70 °F + 460 _____ = 530 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 836 psia (n)

Q = 64 (integrated) X $\left(\frac{\sqrt{(c)} - 1}{\sqrt{(d)} - 1} \right)^2 = \underline{\underline{64}}$ MCF/da

DELIVERABILITY CALCULATION

D = Q 64 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{0.75}{0.8585} = \underline{\underline{55}}$ MCF/da.

SUMMARY

P_c = 1673 psia
Q = 64 Mcf/day
P_w = 176 psia
P_d = 836 psia
D = 55 Mcf/day

Company MAGNOLIA PETROLEUM COMPANY
By William A. Morgan
Title Jr. Gas Engineer
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 i)	P _t ² + R ²	P _w
3807	0.242	0.362	.007604	226,576	226,644	176



