

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 Blanco Formation Mesaverde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipe Line Corporation Date Test Filed March 23, 1959
Operator Magnolia Petroleum Company Lease Jicarilla "D" Well No. 8 IT-MV
Unit A Sec. 23 Twp. 26N Rge. 3W Pay Zone: From 5493' To 6020'
Casing: OD 5" WT. 15# Set At 6094' Tubing: OD 2 3/8" WT. 4.7# T. Perf. 6020'
Produced Through: Casing - Tubing X Gas Gravity: Measured 0.665 Estimated -
Date of Flow Test: From 2-7-59 To 2-15-59 * Date S.I.P. Measured 10-17-58
Meter Run Size 4.026" Orifice Size 1.000 Type Chart Sqr. 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 508 psig + 12 = 520 psia (g)
Square root chart average reading (7.22) ² x sp. const. 10 = 520 psia (g)
Corrected seven day ave. meter press. (p_f) (g) + (e) _____ = 520 psia (h)
P_t = (h) + (f) _____ = 520 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1076 psig + 12 = 1088 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1088 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 _____ = 528 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 544 psia (n)

Q = 350 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} \frac{1}{1} = \frac{1}{1} = \frac{1}{1}} \right)^* = \underline{350}$ MCF/day
(Integrated)

DELIVERABILITY CALCULATION

D = Q 350 $\left[\frac{(P_c^2 - P_d^2) = \underline{887,808}}{(P_c^2 - P_w^2) = \underline{910,215}} \right]^n \frac{0.75}{0.9812} = \underline{343}$ MCF/day.

SUMMARY

P_c = 1088 psia
Q = 350 Mcf/day
P_w = 523 psia
P_d = 544 psia
D = 343 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 _w
4003	0.253	10.8	2.73	270.4	523

RECEIVED
MAR 26 1959
OIL CON COM
DIST. 3

