

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 "F" Well No. 5 LT-MV
Unit M Sec. 23 Twp. 27N Rge. 4W Pay Zone: From 5707' To 6199'
Casing: OD 5" WT. 15# Set At 6280' Tubing: OD 2 3/8" WT. 4.7# T. Perf. 6193'
Produced Through: Casing - Tubing X Gas Gravity: Measured 0.668 Estimated -
Date of Flow Test: From 1-30-59 To 2-7-59 * Date S.I.P. Measured 10-7-58
Meter Run Size 1.026" Orifice Size 1.250" 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 537 psig + 12 = 549 psia (g)
Square root chart average reading (7.41) ² x sp. const. 10 = 549 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 549 psia (h)
P_t = (h) + (f) _____ = 549 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1365 psig + 12 = 1377 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1377 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 688 psia (n)

Q = 605 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} \frac{1}{1}} = \frac{1}{1} = \frac{1}{1} \right) = \underline{605} \text{ MCF/day}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 605 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^n \frac{0.75}{0.9217} = \underline{558} \text{ MCF/day}$

SUMMARY

P_c = 1377 psia
Q = 605 Mcf/day
P_w = 557 psia
P_d = 688 psia
D = 558 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
<u>4137</u>	<u>0.260</u>	<u>32.3</u>	<u>8.4</u>	<u>301.4</u>	<u>309.8</u>	<u>557</u>

RECEIVED
MAR 26 1959
OIL CON. COM.
DIST. 3