

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 Undesignated Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Date Test Filed 4-10-59
Operator Magnolia Petroleum Co. Lease Jicarilla "H" Well No. 8 P.C. U.T.
Unit M Sec. 12 Twp. 26N Rge. 3W Pay Zone: From 3694' To 3756'
Casing: OD 7-5/8" WT. 25.40# Set At 4010' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 3741'
Produced Through: Casing - Tubing x Gas Gravity: Measured 0.665 Estimated -
Date of Flow Test: From 2/19/59 To 2/27/59 * Date S.I.P. Measured 10/13/58
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 _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.52) ² x sp. const. 10 _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 924 _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 924 _____ psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) 87 °F + 460 _____ = _____ °Abs (m)
P_d = ½ P_c = ½ (l) _____ = _____ psia (n)

Q = 629 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} \frac{1}{1} = \frac{1}{1}} \right)^* = \underline{629}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 629 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n \frac{0.85}{1.1593} = \underline{729}$ MCF/da.

SUMMARY

P_c = 926 psia
Q = 629 Mcf/day
P_w = 570 psia
P_d = 468 psia
D = 729 Mcf/day

Company Magnolia Petroleum Company
By [Signature]
Title District 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
2488	0.165	35.0	5.775	319.225	325.000	570

