

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 Huron Formation Mesa Verde County San Juan
Purchasing Pipeline Pacific Northwest Pipeline Date Test Filed _____
Operator Magnolia Petroleum Lease Flowfile "B" Well No. 5
Unit A Sec. 20 Twp. 36N Rge. 3E Pay Zone: From 6,093' To 6,220'
Casing: OD 5-3/8" WT. 114 Set At 6360' Tubing: OD 2-3/8" WT. 4.75 T. Perf. 6098'
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .660 Estimated _____
Date of Flow Test: From 4/29/58 To 5/7/58 * Date S.I.P. Measured 11/12/57
Meter Run Size 4" Orifice Size 0.750" Type Chart 1-10-6 Type Taps Fig.

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 (7.6) ² x sp. const. 10 _____ = 577 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 577 psia (h)
P_t = (h) + (f) _____ = 577 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1181 psig + 12 = 1193 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1193 psia (l)
Flowing Temp. (Meter Run) 77 °F + 460 _____ = 517 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 597 psia (n)

Q = 223 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)}} = \frac{\text{ } }{\sqrt{(d)}} = \text{ } \right)^{.75} = \text{ } \text{MCF/da}$

DELIVERABILITY CALCULATION

D = Q 223 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.75} = \text{ } \text{MCF/da.}$

SUMMARY

P_c = 1193 psia
Q = 223 Mcf/day
P_w = 578 psia
P_d = 597 psia
D = 220 Mcf/day

Company Magnolia Petroleum Co.
By James A. Fagan, Jr.
Title Oil Engineer
Witnessed by _____
Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ⁻⁸)	(FcQ) ²	(FcQ) ² (1-e ⁻⁸) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>3998</u>	<u>.252</u>	<u>4.4</u>	<u>1.1</u>			<u>578</u>

