

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 Tapacito Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Date Test Filed _____
Operator Magnolia Petroleum Co. Lease Alcarilla "B" Well No. 5
Unit A Sec. 20 Twp. 26N Rge. 3E Pay Zone: From 3945' To 3997'
Casing: OD 7-5/8" WT. 24.4 Set At 4,200' Tubing: OD 2-3/8" WT. 4.7 T. Perf. 3098'
Produced Through: Casing _____ Tubing I 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 1.000 Type Chart L-10-8 Type Taps Flg.

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 (7.5) ² x sp. const. 10 _____ = 561 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 561 psia (h)
P_t = (h) + (f) _____ = 561 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 924 psig + 12 = 936 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 936 psia (l)
Flowing Temp. (Meter Run) 54 °F + 460 _____ = 514 °Abs (m)
P_d = ½ P_c = ½ (l) _____ = 498 psia (n)

Q = 168.5 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = 1 = 1} \right) = \underline{168.5}$ MCF/da
(integrated) $\sqrt{(d)} = 1$

DELIVERABILITY CALCULATION

D = Q 168.5 $\left[\frac{(P_c^2 - P_d^2) = 744.0}{(P_c^2 - P_w^2) = 676.9} \right]^{.85} \frac{1.0844}{1} = \underline{183}$ MCF/da.

SUMMARY

P_c = 936 psia
Q = 168.5 Mcf/day
P_w = 561 psia
P_d = 498 psia
D = 183 Mcf/day

Company Magnolia Petroleum Co.
By James A. Logan, Jr.
Title 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>2573</u>	<u>0.171</u>	<u>2.5</u>	<u>0.4</u>	<u>314.7</u>	<u>315.1</u>	<u>561</u>

OCC

