

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 Tapacito-Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Corp. Date Test Filed _____
Operator Magnolia Petroleum Co. Lease Mearilla "C" Well No. 1
Unit M Sec. 7 Twp. 26N Rge. 3W Pay Zone: From 3,590 To 3,635
Casing: OD 5 1/2" WT. 12.5# Set At 3590 Tubing: OD 2 3/8" WT. 4.7# T. Perf. 3,619'
Produced Through: Casing _____ Tubing I Gas Gravity: Measured 0.650 Estimated -
Date of Flow Test: From 6-9-57 To 6-17-57 * Date S.I.P. Measured 11-5-55
Meter Run Size 2.068" Orifice Size 0.750" Type Chart Sq.Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) 545 psig + 12 = 557 psia (b)
Flowing meter pressure (Dwt) 545 psig + 12 = 557 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (7.47)² x spring constant 10 = 558 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 _____ = 0 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 = 563 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 562 psia (h)
P_t = (h) + (f) _____ = 562 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 993 psig + 12 = 1005 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1005 psia (l)
Flowing Temp. (Meter Run) 60 (est.) °F + 460 _____ = 500 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 502.5 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{112}{(\text{integrated})} \times \left(\frac{\sqrt{(c) 557} - \sqrt{(d) 558}}{\sqrt{(a) 557} - \sqrt{(d) 558}} \right) = 112 \text{ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{112}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85}} = 121 \text{ MCF/day}$$

SUMMARY

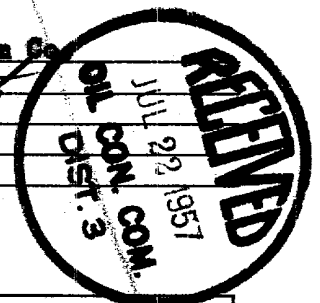
P_c = 1005 1,010,025 psia
Q = 112 Mcf/day
P_w = 562.2 316,000 psia
P_d = 502.5 252,506 psia
D = 121 Mcf/day

Company Magnolia Petroleum Co.
By Robert W. Ruff
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>2352</u>	<u>0.157</u>	<u>1.11</u>	<u>0.17</u>	<u>315.8</u>	<u>316.0</u>	<u>562.2</u>



El Paso Natural Gas Company

El Paso, Texas

April 9, 1958

DIRECT REPLY TO:
P. O. BOX 997
FARMINGTON, NEW MEXICO

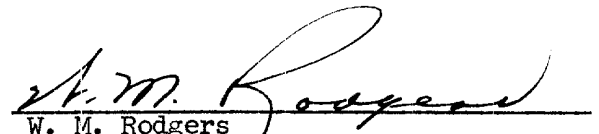
Oil Conservation Commission
1000 Rio Brazos
Aztec, New Mexico

Dear Sir:

Re: Magnolia Petroleum Company's Well - Jicarilla #C-1
Sec. 7-26-3

Please disregard the Notice of Disconnect of April 7, 1958
on the above mentioned well.

Very sincerely yours,


W. M. Rodgers
Chief Dispatcher

WMR/mm

cc: Magnolia Petroleum Company - Hobbs, New Mexico
Magnolia Petroleum Company - Farmington, New Mexico
Oil Conservation Commission - Santa Fe, New Mexico
F. N. Woodruff - El Paso
W. M. Flood - El Paso
B. D. Adams - Farmington
Pacific Northwest Pipeline - Farmington & Salt Lake City
File

