

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 Undesignated Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Date Test Filed _____
Operator Magnolia Petroleum Company Lease Jicarilla "E" Well No. 3 PC-57
Unit H Sec. 15 Twp. 27N Rge. 3W Pay Zone: From 3840' To 3892'
Casing: OD 7 5/8" WT. 24# Set At 4235' Tubing: OD 2 3/8" WT. 4.7# T. Perf. 3845'
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated .074
Date of Flow Test: From May 22 To May 30 * Date S.I.P. Measured 5-1-57
Meter Run Size 4.029 Orifice Size 0.500 Type Chart L-10-8 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: _____ = _____ psi (f)
(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 (7.89) ² x sp. const. 10 = 623 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 623 psia (h)
P_t = (h) + (f) _____ = 623 psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 1069 psig + 12 = 1081 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1081 psia (l)
Flowing Temp. (Meter Run) 68 °F + 460 _____ = 528 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 541 psia (n)

Q = 43 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} = \underline{1} = \underline{1}} \right) = \underline{43} MCF/da
(Integrated) $\sqrt{(d)} = \underline{1}$$

DELIVERABILITY CALCULATION

D = Q 43 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.85} = \underline{1.1027} = \underline{47} MCF/da.$

SUMMARY

P_c = 1081 psia
Q = 43 Mcf/day
P_w = 623 psia
P_d = 541 psia
D = 47 Mcf/day

Company MAGNOLIA PETROLEUM COMPANY
By [Signature]
Title Dist. 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>2592</u>	<u>.172</u>	<u>0.2</u>	<u>negligible</u>	<u>388.1</u>	<u>388.1</u>	<u>623</u>

