

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 Formation Pictured Cliffs County Rio Arriba
Purchasing Pipeline Pacific Northwest Date Test Filed 3-7-58
Operator Magnolia Petroleum Company Lease Jicarilla "B" Well No. 1 PG-57
Unit M Sec. 20 Twp. 26N Rge. 3W Pay Zone: From 3798' To 3828'
Casing: OD 7 5/8" WT. 24# Set At 4,044' Tubing: OD 2 3/8" WT. 4.7# T. Perf. 3157
Produced Through: Casing - Tubing X Gas Gravity: Measured 0.671 Estimated -
Date of Flow Test: From 1-23-58 To 1-31-58 * Date S.I.P. Measured 9-26-57
Meter Run Size 4.026" Orifice Size 1.000" Type Chart sq. ft. 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 (7.71) ² x sp. const. 10 _____ = 595 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 595 psia (h)
P_t = (h) + (f) _____ = 595 psia (i)
Wellhead casing shut-in pressure (Dwt) 924 _____ psig + 12 = 936 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) 56 °F + 460 _____ = 516 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 468 psia (n)

Q = 354 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} \frac{1}{1} = \frac{1}{1} = \frac{1}{1}} \right)^* = \underline{354} \text{ MCF/da}$
(integrated)

DELIVERABILITY CALCULATION

D = Q 354 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{0.85} \frac{1.217}{1.217} = \underline{431} \text{ MCF/da.}$

SUMMARY

P_c = 936 psia
Q = 354 Mcf/day
P_w = 596 psia
P_d = 468 psia
D = 431 Mcf/day

Company MAGNOLIA PETROLEUM COMPANY
By James D. Sogor, 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>2521</u>	<u>0.167</u>	<u>11.076</u>	<u>1.8497</u>	<u>354,025</u>	<u>355,875</u>	<u>596</u>



