

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 Blanco Formation Mesa Verde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Company Date Test Filed
Operator Magnolia Petroleum Company Lease Jicarilla "C" Well No. 2 N.V.
Unit 11 Sec. 7 Twp. 26N Rge. 3W Pay Zone: From 5335' To 5843'
Casing: OD 5 1/2" WT. 11 1/2 Set At 6050' Tubing: OD 2 3/8" WT. 4.7# T. Perf. 5277'
Produced Through: Casing Tubing Gas Gravity: Measured 0.694 Estimated
Date of Flow Test: From 4/21/58 To 4/29/58 * Date S.I.P. Measured 12/13/57
Meter Run Size 4.025 Orifice Size 1.000# Type Chart sqr. rt. 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) psig + 12 = psia (j)
Wellhead tubing shut-in pressure (Dwt) 1050 psig + 12 = 1062 psia (k)
P_c = (j) or (k) whichever well flowed through = 1062 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 531 psia (n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \quad 754 \quad \times \quad \left(\frac{\sqrt{(c)} \quad 1 = 1 = 1}{\sqrt{(d)} \quad 1 = 1} \right) = 754 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \quad 754 \quad \left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{0.75} \frac{1.0815}{1.0815} = 815 \text{ MCF/da.}$$

SUMMARY

P_c = 1062 psia
Q = 754 Mcf/day
P_w = 605 psia
P_d = 531 psia
D = 815 Mcf/day

Company MAGNOLIA PETROLEUM COMPANY
By Del C. Robinson
Title District Superintendent - N.O.
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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w
3662	0.234	50.25	11.76		354.025	365.8	605



