

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 Mesaverde County Rio Arriba
Purchasing Pipeline Pacific Northwest Pipeline Date Test Filed -
Operator Magnolia Petroleum Company Lease Jicarilla E Well No. 3 MV
Unit M Sec. 15 Twp. 27N Rge. 3W Pay Zone: From 6655 To 6177
Casing: OD 5 1/2" WT. 11# Set At 6,225 Tubing: OD 2 3/5" WT. 4.7# T. Perf. 5641
Produced Through: Casing _____ Tubing X Gas Gravity: Measured _____ Estimated 0.68
Date of Flow Test: From May 22 To May 30 * Date S.I.P. Measured 7-1-57
Meter Run Size 4.025 Orifice Size 1.000 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) 1767 psig + 12 = 1779 psia (k)
P_c = (j) or (k) whichever well flowed through = 1779 psia (l)
Flowing Temp. (Meter Run) 62 °F + 460 = 522 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 890 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{550}{(\text{integrated})} \times \left(\frac{\sqrt{(c)} = 1}{\sqrt{(d)} = 1} \right) = 550 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{550}{\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.75}} = 190 \text{ MCF/da.}$$

SUMMARY

P_c = 1779 psia
Q = 550 Mcf/day
P_w = 628 psia
P_d = 890 psia
D = 190 Mcf/day

Company MAGNOLIA PETROLEUM COMPANY
By W.B. Thacker
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
3,836	0.243	26.7	6.5	388.1	394.6	628

