

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 South Kansas Formation Pictured Cliffs County San Antonio
Purchasing Pipeline Pacific Northwest Pipeline Date Test Filed _____
Operator Magnolia Petroleum Company Lease Callins Federal Well No. 8
Unit 1 Sec. 4 Twp. 24N Rge. 3W Pay Zone: From 3324' To 3339'
Casing: OD 5 1/2" WT. 11.5 Set At 3392' Tubing: OD 2 3/8" WT. 4.78 T. Perf. 3320'
Produced Through: Casing _____ Tubing x Gas Gravity: Measured 0.698 Estimated _____
Date of Flow Test: From 5/30/58 To 6/6/58 * Date S.I.P. Measured 9/29/57
Meter Run Size 1.026" Orifice Size 1.000" Type Chart exp. 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 (7.4) ² x sp. const. 10 = 54.7 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) = 54.7 psia (h)
P_t = (h) + (f) = 54.7 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) 65 °F + 460 = 525 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) = 473 psia (n)

FLOW RATE CALCULATION

Q = 294 X $\left(\frac{\sqrt{(c)} - \sqrt{(d)}}{\sqrt{(d)}} \right) = \underline{294}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION

D = Q 294 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{0.05} = \underline{326}$ MCF/da.
672,387 594,527 1.1094

SUMMARY

P_c = 936 psia
Q = 294 Mcf/day
P_w = 548 psia
P_d = 473 psia
D = 326 Mcf/day

Company MAGNOLIA PETROLEUM COMPANY
By William E. Morgan
Title Jr. 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 R ²	(1-e ^{-s})	P _t ² (Column i)	P _t ² + R ²	P _w
2317	0.155	7.64	1.18		299,209	300,389	548

