

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 Mesaverte Formation Mesaverte County San Juan
Purchasing Pipeline Pacific Northwest Date Test Filed 2/1/58
Operator Magnolia Petroleum Co. Lease Hearville #7 Well No. 6
Unit 1 Sec. 2 Twp. 26N Rge. 3W Pay Zone: From 5302 To 5308
Casing: OD 5 1/4" WT. 11.4 Set At 5260 Tubing: OD 2 1/8" WT. 4.74 T. Perf. 5375
Produced Through: Casing _____ Tubing 2 Gas Gravity: Measured .725 Estimated -
Date of Flow Test: From 12-26-57 To 12-31-57 Date S.I.P. Measured 1/20/58
Meter Run Size 1.000 Orifice Size 1.750 Type Chart sq. 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 (832.5) ² x sp. const. 10 _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ psia (h)
P_t = (h) + (f) _____ psia (i)
Wellhead casing shut-in pressure (Dwt) _____ psig + 12 = 1773 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1761 psig + 12 = 1773 psia (k)
P_c = (j) or (k) whichever well flowed through _____ psia (l)
Flowing Temp. (Meter Run) 38 °F + 460 _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ psia (n)

Q = 3744 X $\left(\frac{\sqrt{(c)} - \sqrt{(d)}}{\sqrt{(d)}} \right)^2 = \underline{3744}$ MCF/da
(Integrated)

DELIVERABILITY CALCULATION
D = Q 3744 $\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.75} = \underline{3744}$ MCF/da.
 $\left[\frac{2,357,617}{2,354,829} \right]^{0.75}$

SUMMARY
P_c = 1773 psia
Q = 3744 Mcf/day
P_w = 888 psia
P_d = 886.5 psia
D = 3744 Mcf/day

Company Magnolia Petroleum Company
By James A. Fagan, 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>384.3</u>	<u>0.889</u>	<u>1239</u>	<u>1086.5</u>	<u>1888.2</u>	<u>788.7</u>	<u>888</u>

• Flow period 19 hours

OK



