

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 Undesignated Formation Pictured Cliffs County Rio Arriba  
Purchasing Pipeline Pacific Northwest Pipeline Co. Date Test Filed -  
Operator Magnolia Petroleum Co. Lease Jicarilla "B" Well No. h P.G.-BT  
Unit N Sec. 11 Twp. 24N Rge. 3W Pay Zone: From 3675' To 3761'  
Casing: OD 7 5/8" WT. 24# Set At 4072' Tubing: OD 2 3/8" WT. 4.7# T. Perf. 3683'  
Produced Through: Casing - Tubing x Gas Gravity: Measured 0.668 Estimated -  
Date of Flow Test: From 4/21/58 To 4/29/58 \* Date S.I.P. Measured 11/15/57  
Meter Run Size 4.030" Orifice Size 0.750 Type Chart scr. 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 (\_\_\_\_\_) <sup>2</sup> 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 8.21 psig + 12 = \_\_\_\_\_ psia (g)  
Square root chart average reading (\_\_\_\_\_) <sup>2</sup> x sp. const. 10 = 676 674 psia (g)  
Corrected seven day avge. meter press. (p<sub>f</sub>) (g) + (e) = 676 674 psia (h)  
P<sub>t</sub> = (h) + (f) = 676 674 psia (i)  
Wellhead casing shut-in pressure (Dwt) 1077 psig + 12 = 1089 psia (j)  
Wellhead tubing shut-in pressure (Dwt) 1076 psig + 12 = 1088 psia (k)  
P<sub>c</sub> = (j) or (k) whichever well flowed through = 1088 psia (l)  
Flowing Temp. (Meter Run) 65 °F + 460 = 525 °Abs (m)  
P<sub>d</sub> = 1/2 P<sub>c</sub> = 1/2 (l) = 544 psia (n)

Q = 312 X  $\left( \frac{\text{FLOW RATE CALCULATION}}{\sqrt{(c)} \frac{1}{1} = \frac{1}{1} = \frac{1}{1}} \right) = \underline{312} MCF/da  
(integrated)$

DELIVERABILITY CALCULATION

D = Q 312  $\left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{0.85} = \underline{370} MCF/da.  
 $\frac{887,808}{725,358}$  1.187$

SUMMARY

P<sub>c</sub> = 1088 psia  
Q = 312 Mcf/day  
P<sub>w</sub> = 676 675 psia  
P<sub>d</sub> = 544 psia  
D = 370 Mcf/day

Company MAGNOLIA PETROLEUM COMPANY  
By L. O. E. Robinson  
Title Dist. Superintendent - N.G.  
Witnessed by \_\_\_\_\_  
Company \_\_\_\_\_

\* This is date of completion test.  
\* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e <sup>-S</sup> )	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-S</sup> ) R <sup>2</sup>	P <sub>t</sub> <sup>2</sup> (Column i)	P <sub>t</sub> <sup>2</sup> + R <sup>2</sup>	P <sub>w</sub>
<u>2460</u>	<u>0.164</u>	<u>8.60</u>	<u>1.41</u>	<u>456,576</u>	<u>458,386</u>	<u>677</u>

