Form C-122-A
Revised April 20, 1955

Initial Deliverability Test

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 1-22-59

Operator Magnolia Petroleum Co. Lease Jicarilla "G" Well No. 5 M.V. L.T.

Unit M Sec. 25 Twp. 27N Rge. 3W Pay Zone: From 5807' To 6276'

Casing: OD 5" WT. 15# Set At 4,408" Tubing: OD 2-3/8" WT. 4.7# T. Perf. 6252'

Produced Through: Casing - Tubing x Gas Gravity: Measured 0.650 Estimated -

Date of Flow Test: From 12/7/58 To 12/15/58 * Date S.I.P. Measured 8/2/58

Meter Run Size 4.026" Orifice Size 1.750" 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 (7.11)^2 x sp. const. 10	=	505	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	505	psia	(h)
P_t = (h) + (f)	=	505	psia	(i)
Wellhead casing shut-in pressure (Dwt) -	psig + 12 =	-	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1588	psig + 12 =	1600	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1600	psia	(l)
Flowing Temp. (Meter Run) 65 °F + 460	=	525	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	800	psia	(n)

FLOW RATE CALCULATION

Q = 1146 (integrated) $\times \left(\frac{\sqrt{(c)}\ 1}{\sqrt{(d)}\ 1} = \frac{1}{1} = 1 \right)^* =$ 1146 MCF/da

DELIVERABILITY CALCULATION

$D = Q$ 1146 $\left[\left(\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right) = \frac{1,920,000}{2,275,300} \right]^n$ $= (0.844)^{0.75} = 0.8805^{0.75}$ 1009 MCF/da.

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DIST. 3

SUMMARY

P_c =	1609	psia
Q =	1146	Mcf/day
P_w =	534	psia
P_d =	800	psia
D =	1009	Mcf/day

Company Magnolia Petroleum Company
By William A. Morgan
Title Jr. Gas Engineer
Witnessed by -
Company -

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-S})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
4064	0.256	116.1	29.7	255.0	284.7	534