Initial Deliverability Test

Form C-141-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 Mesaverde Formation Mesaverde County Rio Arriba

Purchasing Pipeline Pacific Northwest Date Test Filed 2-25-59

Operator Magnolia Petroleum Co. Lease Jicarilla "G" Well No. 6 LT-MV

Unit M Sec. 36 Twp. 27N Rge. 3W Pay Zone: From 5518' To 6008'

Casing: OD 5" WT. 15# Set At 6075' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 6001'

Produced Through: Casing - Tubing x Gas Gravity: Measured 0.649 Estimated -

Date of Flow Test: From 12-30-58 To 1-7-59 * Date S.I.P. Measured 9-1-58

Meter Run Size 4.026" Orifice Size 1.750 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:				
(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 (-)^2 x sp. const. 10	=	565	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	565	psia	(h)
P_t = (h) + (f)	=	565	psia	(i)
Wellhead casing shut-in pressure (Dwt)	- psig + 12 =	-	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1595	psig + 12 =	1607	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1607	psia	(l)
Flowing Temp. (Meter Run) 80 °F + 460	=	540	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	804	psia	(n)

FLOW RATE CALCULATION

$$Q = 2{,}911 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = 1.000 \right)^{*} = 2911 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1{,}936{,}033}{2{,}078{,}206} \right]^{n} = 2{,}911 \left[0.9482 \right]^{0.750} = 2760 \text{ MCF/da.}$$

SUMMARY

P_c =	1607 psia
Q =	2911 Mcf/day
P_w =	710 psia
P_d =	804 psia
D =	2760 Mcf/day

Company Magnolia Petroleum Company
By C. V. Mackey
Title Gas Engineer
Witnessed by -
Company -

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3895	0.247	749.062	185.018	319.225	504.243	710