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 Undesignated Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline Pacific Northwest Date Test Filed 1-22-59

Operator Magnolia Petroleum Co. Lease Jicarilla "G" Well No. 5 P.C. U.T.

Unit M Sec. 25 Twp. 27N Rge. 3W Pay Zone: From 3979' To 4068'

Casing: OD 7-5/8" WT. 26.40# Set At 4300' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 4069'

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 0.750" 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 (7.0)^2 x sp. const. 10	=	491 psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	491 psia	(h)
P_t = (h) + (f)	=	491 psia	(i)
Wellhead casing shut-in pressure (Dwt) 793	psig + 12 =	805 psia	(j)
Wellhead tubing shut-in pressure (Dwt) 797	psig + 12 =	809 psia	(k)
P_c = (j) or (k) whichever well flowed through	=	809 psia	(l)
Flowing Temp. (Meter Run) 54 °F + 460	=	514 °Abs	(m)
P_d = ½ P_c = ½ (l)	=	404 psia	(n)

FLOW RATE CALCULATION

$$Q = 149 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}\ 1}{\sqrt{(d)}\ 1} = \frac{1}{1} = 1 \right)^{*} = 149 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{491,265}{413,081} \right]^{n} \quad n = \frac{0.85}{0.85} = 1.19 = 1.1593 = 173$$

RECEIVED
JAN 26 1959
OIL CON. COM.
DIST. 3

SUMMARY

P_c =	809	psia
Q =	149	Mcf/day
P_w =	491	psia
P_d =	404	psia
D =	173	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	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(FcQ)^2 (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
2645	0.175	1.96	0.343	241.1	241.4	491

OK