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 Pipeline Date Test Filed -

Operator Magnolia Petroleum Company Lease Jicarilla "G" Well No. 4 P.C.-NW

Unit K Sec. 26 Twp. 27N Rge. 3W Pay Zone: From 3738' To 4096'

Casing: OD 7 5/8" WT. 24# Set At 4340 Tubing: OD 2 3/8" WT. 4.7# T. Perf 3948'

Produced Through: Casing - Tubing x Gas Gravity: Measured 0.686 Estimated -

Date of Flow Test: From 4/21/58 To 4/29/58 * Date S.I.P. Measured 10/27/57

Meter Run Size 4.026 Orifice Size 1.000" 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 (7.82) ^{2} x sp. const. 10	=	611	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	611	psia	(h)
P_t = (h) + (f)	=	611	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1015	psig + 12 =	1027	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1015	psig + 12 =	1027	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1027	psia	(l)
Flowing Temp. (Meter Run) 60 °F + 460	=	520	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	513.5	psia	(n)

FLOW RATE CALCULATION

$$Q = 353 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}\ 1}{\sqrt{(d)}\ 1} = \frac{1}{1} = 1 \right)^{*} = 353 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2 = 791,067}{P_c^2 - P_w^2 = 679,448} \right]^{n} \quad n = 0.85 \quad 1.136 = 401 \text{ MCF/da.}$$

SUMMARY

P_c =	1027	psia
Q =	353	Mcf/day
P_w =	612	psia
P_d =	513.5	psia
D =	401	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
2694	0.178	11.016	1.96	373,321	375,281	612

RECEIVED
JUN 6 1958
OIL CON. COM.
DIST. 3