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 Tapacito Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline Pacific Northwest Date Test Filed

Operator Magnolia Petroleum Co. Lease Jicarilla "B" Well No. 5

Unit A Sec. 20 Twp. 26N Rge. 3W Pay Zone: From 3945' To 3997'

Casing: OD 7-5/8" WT. 24# Set At 4,200' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 3998'

Produced Through: Casing ~~Tubing~~ I Gas Gravity: Measured .660 Estimated

Date of Flow Test: From 4/29/58 To 5/7/58 * Date S.I.P. Measured 11/12/57

Meter Run Size 4" Orifice Size 1.000 Type Chart 1-10-6 Type Taps Flg.

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 (7.5)^2 x sp. const. 10	=	561	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	561	psia	(h)
P_t = (h) + (f)	=	561	psia	(i)
Wellhead casing shut-in pressure (Dwt)	psig + 12 =	———	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 984	psig + 12 =	996	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	996	psia	(l)
Flowing Temp. (Meter Run) 54 °F + 460	=	514	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	498	psia	(n)

FLOW RATE CALCULATION

$$Q = 168.5 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{1.}{1} \right)^{*} = 168.5 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{744.0}{676.9} \right]^{n} \quad .85 \quad 1.0844 = 183 \text{ MCF/da.}$$

SUMMARY

P_c =	996	psia
Q =	~~168.5~~ 169	Mcf/day
P_w =	561	psia
P_d =	498	psia
D =	183	Mcf/day

Company Magnolia Petroleum Co.
By James A. Logan, Jr.
Title Gas Engineer
Witnessed by
Company

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)2$	$\frac{(FcQ)^2 (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
2573	0.171	2.5	0.4	314.7	315.1	561

RECEIVED
JUN 11 1958
OIL CON. COM.