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 Pipe Line Corporation Date Test Filed March 23, 1959

Operator Magnolia Petroleum Company Lease Jicarilla "F" Well No. 6 WI-PC

Unit A Sec. 27 Twp. 27N Rge. 3W Pay Zone: From 4074' To 4157'

Casing: OD 7 5/8" WT. 25.40# Set At 4390' Tubing: OD 2 3/8" WT. 4.7# T. Perf. 4157'

Produced Through: Casing - Tubing X Gas Gravity: Measured 0.661 Estimated -

Date of Flow Test: From 1-15-59 To 1-22-59 * Date S.I.P. Measured 11-6-58

Meter Run Size 4.026" Orifice Size 1.500" 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 465 psig + 12 =	477	psia	(g)
Square root chart average reading (6.91) ^{2} x sp. const. 10 =	477	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e) =	477	psia	(h)
P_t = (h) + (f) =	477	psia	(i)
Wellhead casing shut-in pressure (Dwt) 985 psig + 12 =	997	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 961 psig + 12 =	973	psia	(k)
P_c = (j) or (k) whichever well flowed through =	973	psia	(l)
Flowing Temp. (Meter Run) 50 °F + 460 =	510	°Abs	(m)
P_d = ½ P_c = ½ (l) =	486	psia	(n)

FLOW RATE CALCULATION

$$Q = 334 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}\ 1}{\sqrt{(d)}\ 1} = \frac{1}{1} = 1 \right)^{*} = 334 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{710,533}{717,420} \right]^{n} = 334 \left[0.9915 \right]^{0.85} = 331 \text{ MCF/da.}$$

SUMMARY

P_c = 973 psia
Q = 334 Mcf/day
P_w = 479 psia
P_d = 486 psia
D = 331 Mcf/day

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

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
2748	0.181	9.86	1.78	227,529	229,309	479

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