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 __Blanco__ Formation __Mesaverde__ 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. __7 LT-MV__

Unit __M__ Sec. __24__ Twp. __27N__ Rge. __3W__ Pay Zone: From __5645'__ To __6012'__

Casing: OD __5"__ WT. __15#__ Set At __6230'__ Tubing: OD __2 3/8"__ WT. __4.7#__ T. Perf. __6011'__

Produced Through: Casing __--__ Tubing __X__ Gas Gravity: Measured __0.676__ Estimated __--__

Date of Flow Test: From __1-15-59__ To __1-22-59__ * Date S.I.P. Measured __10-30-58__

Meter Run Size __4.026"__ Orifice Size __1.250"__ 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 __479__ psig + 12 =	__491__	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) __--__ psig + 12 =	__--__	psia	(j)
Wellhead tubing shut-in pressure (Dwt) __1584__ psig + 12 =	__1596__	psia	(k)
P_c = (j) or (k) whichever well flowed through =	__1596__	psia	(l)
Flowing Temp. (Meter Run) __66__ °F + 460 =	__526__	°Abs	(m)
P_d = ½ P_c = ½ (l) =	__798__	psia	(n)

FLOW RATE CALCULATION

$$Q = \underline{579} \times \left(\frac{\sqrt{(c)} \underline{1}}{\sqrt{(d)} \underline{1}} = \frac{\underline{1}}{\underline{1}} = \underline{1} \right) = \underline{579} \text{ MCF/da}$$

(integrated)

DELIVERABILITY CALCULATION

$$D = Q \underline{579} \left[\frac{\left(P_c^2 - P_d^2 \right) = \underline{1,910,412}}{\left(P_c^2 - P_w^2 \right) = \underline{2,298,545}} \right]^{0.75} \quad \underline{0.8703} \quad = \underline{504} \text{ MCF/da.}$$

SUMMARY

P_c = __1596__ psia

Q = __579__ Mcf/day

P_w = __499__ psia

P_d = __798__ psia

D = __504__ 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$_C$Q)2	(FcQ)^2 (1-e^{-S}) / R^2	Pt^2 (Column i)	P$_t$^{2} + R^2	P$_w$
4063	0.256	29.64	7.59	241.081	248.672	499