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 Blanco Formation Mesaverde County Rio Arriba

Purchasing Pipeline Pacific Northwest Pipeline Date Test Filed 4-10-59

Operator Magnolia Petroleum Co. Lease Jicarilla "H" Well No. 8 M.V. L.T.

Unit M Sec. 12 Twp. 26N Rge. 3W Pay Zone: From 5476' To 5977'

Casing: OD 5" WT. 15# Set At 6050' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 5964'

Produced Through: Casing - Tubing x Gas Gravity: Measured 0.700 Estimated -

Date of Flow Test: From 2/19/59 To 2/27/59* Date S.I.P. Measured 10/13/58

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 553	psig + 12 =	565	psia	(g)
Square root chart average reading (7.52) ^{2} x sp. const. 10	=	565	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	565	psia	(h)
P_t = (h) + (f)	=	565	psia	(i)
Wellhead casing shut-in pressure (Dwt) -	psig + 12 =	-	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1528	psig + 12 =	1540	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1540	psia	(l)
Flowing Temp. (Meter Run) 71 °F + 460	=	531	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	770	psia	(n)

FLOW RATE CALCULATION

$$Q = 1486 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}\ 1}{\sqrt{(d)}\ 1} = \frac{1}{1} = 1 \right)^{*} = 1486 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{1,778,700}{2,001,233}\right]^{n} = 1486 \times (0.9155)^{0.75} = 1360 \text{ MCF/da.}$$

SUMMARY

P_c =	1540	psia
Q =	1486	Mcf/day
P_w =	609	psia
P_d =	770	psia
D =	1360	Mcf/day

Company Magnolia Petroleum Co.
By W. S. Thornton
Title District 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
4175	0.262	195.2	51.142	319.225	370.367	609

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