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 Pine Lake Formation Pictured Cliffs County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed 6/10/60

Operator Mobil Oil Company Lease Jicarilla D Well No. 2 UT-PC

Unit A Sec. 14 Twp. 26N Rge. 3W Pay Zone: From 3672' To 3736'

Casing: OD 7-5/8" WT. 24# Set At 4010' Tubing: OD 2-3/8" WT. 4.7# T. Perf. 3673

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .672" Estimated -

Date of Flow Test: From 5/15/60 To 5/22/60 * Date S.I.P. Measured 5/29/60

Meter Run Size 2.067" Orifice Size 1.000" Type Chart Sq. Rt. Type Taps Flg.

OBSERVED DATA

Flowing casing pressure (Dwt)		psig + 12 =		psia (a)
Flowing tubing pressure (Dwt)	487	psig + 12 =	499	psia (b)
Flowing meter pressure (Dwt)	487	psig + 12 =	499	psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:				
Normal chart reading		psig + 12 =		psia (d)
Square root chart reading (7.04)^2 x spring constant 10		=	496	psia (d)
Meter error (c) - (d) or (d) - (c)	±	=	3	psi (e)
Friction loss, Flowing column to meter:				
(b) - (c) Flow through tubing: (a) - (c) Flow through casing		=	0	psi (f)
Seven day average static meter pressure (from meter chart):				
Normal chart average reading		psig + 12 =		psia (g)
Square root chart average reading (7.00)^2 x sp. const. 10		=	490	psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		=	493	psia (h)
P_t = (h) + (f)		=	493	psia (i)
Wellhead casing shut-in pressure (Dwt)		psig + 12 =		psia (j)
Wellhead tubing shut-in pressure (Dwt)	655	psig + 12 =	667	psia (k)
P_c = (j) or (k) whichever well flowed through		=	667	psia (l)
Flowing Temp. (Meter Run) 64 °F + 460		=	524	°Abs (m)
P_d = ½ P_c = ½ (l)		=	334	psia (n)

FLOW RATE CALCULATION

$$Q = 450 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{22.34}{22.27} = 1.003 \right)^{*} = 451 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{(P_c^2 - P_d^2) = 333.3}{(P_c^2 - P_w^2) = 198.9} \right]^{n} \quad n = .85 \quad 1.551 = 698 \text{ MCF/da.}$$

SUMMARY

P_c =	667	psia
Q =	451	Mcf/day
P_w =	496	psia
P_d =	334	psia
D =	698	Mcf/day

Company Mobil Oil Company
By Max Beazley By M.C. McCoy
Title Prod. Engr.
Witnessed by
Company

RECEIVED
JUN 24 1960
OIL CON. COM.
DIST. 3

* 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
2468	.164	17.98	2.949	243.049	245.998	496