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 EPNG Date Test Filed 1-14-65

Operator Socony Mobil Oil Co., Inc. Lease Jicarilla C Well No. 4

Unit C Sec. 7 Twp. 26N Rge. 3W Pay Zone: From 3560 To 3588

Casing: OD 4-1/2 WT. 9.5 Set At 3835 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 3569

Produced Through: Casing ___ Tubing X Gas Gravity: Measured .605 Estimated ___

Date of Flow Test: From 12-6-64 To 12-14-64* Date S.I.P. Measured 9-2-64

Meter Run Size 4 Orifice Size ___ Type Chart Sq. Rt. Type Taps Flg.

OBSERVED DATA

Flowing casing pressure (Dwt)		psig + 12 =	___ psia	(a)
Flowing tubing pressure (Dwt)	546	psig + 12 =	558 psia	(b)
Flowing meter pressure (Dwt)	546	psig + 12 =	558 psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:				
Normal chart reading		psig + 12 =	___ psia	(d)
Square root chart reading (7.4)^2 x spring constant 10		=	548 psia	(d)
Meter error (c) - (d) or (d) - (c)	±	=	+10 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 (7.40)^2 x sp. const. 10		=	548 psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		=	558 psia	(h)
P_t = (h) + (f)		=	558 psia	(i)
Wellhead casing shut-in pressure (Dwt)		psig + 12 =	___ psia	(j)
Wellhead tubing shut-in pressure (Dwt)	959	psig + 12 =	971 psia	(k)
P_c = (j) or (k) whichever well flowed through		=	971 psia	(l)
Flowing Temp. (Meter Run)	___ °F + 460	=	___ °Abs	(m)
P_d = ½ P_c = ½ (l)		=	777 psia	(n)

FLOW RATE CALCULATION

$$Q = 679 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}\ 558}{\sqrt{(d)}\ 548} = 1.018 = 1.009 \right)^{*} = 684 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q\ 684 \left[\frac{P_c^2 - P_d^2 = 530.112}{P_c^2 - P_w^2 = 624.548} \right]^{n} .9430^{.85} = .9951 = 408 \text{ MCF/da.}$$

SUMMARY

P_c =	971	psia
Q =	684	Mcf/day
P_w =	564	psia
P_d =	777	psia
D =	408	Mcf/day

Company Socony Mobil Oil Co., Inc.
By R. W. Hensley
Title Production Foreman
Witnessed by ___
Company ___

RECEIVED FEB 1 1965 OIL CON. COM. DIST. 3

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

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(F_cQ)^2 (1-e^{-S})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
2943	0.169	40.998	6.929	311.364	318.293	564

NMOCC Aztec 3
EPNG Farmington 2
R. W. Hensley 1
File 1