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 El Paso Natural Gas Company Date Test Filed 7/24/61

Operator Socony Mobil Oil Co., Inc. Lease Jicarilla "C" Well No. 2

Unit N Sec. 7 Twp. 26N Rge. 3W Pay Zone: From 3590' To 3641'

Casing: OD 7-5/8" WT. 24#/ft. Set At 3854' Tubing: OD 2-3/8" WT. 4.7#/ft. T. Perf. 3550

Produced Through: Casing ~~x~~ Tubing x Gas Gravity: Measured 0.675 Estimated

Date of Flow Test: From 6/28/61 To 7/6/61 * Date S.I.P. Measured 7/13/61

Meter Run Size 4.026" Orifice Size 0.750" Type Chart L-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt)		psig + 12 =		psia (a)
Flowing tubing pressure (Dwt)	563	psig + 12 =	575	psia (b)
Flowing meter pressure (Dwt)	561	psig + 12 =	573	psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):				
Normal chart reading		psig + 12 =		psia (d)
Square root chart reading (7.55)^2 x spring constant	10	=		psia (d)
Meter error (c) - (d) or (d) - (c)	±	=	570 / +3	psi (e)
Friction loss, Flowing column to meter:				
(b) - (c) Flow through tubing: (a) - (c) Flow through casing		=	2	psi (f)
Seven day average static meter pressure (from meter chart):				
Normal chart average reading		psig + 12 =		psia (g)
Square root chart average reading (7.50)^2 x sp. const.	10	=		psia (g)
Corrected seven day avge. meter press. (P_f) (g) + (e)		=	563	psia (h)
P_t = (h) + (f)		=	566	psia (i)
Wellhead casing shut-in pressure (Dwt)		psig + 12 =	568	psia (j)
Wellhead tubing shut-in pressure (Dwt)	814	psig + 12 =		psia (k)
P_c = (j) or (k) whichever well flowed through		=	826	psia (l)
Flowing Temp. (Meter Run)	65 °F + 460	=	826	°Abs (m)
P_d = ½ P_c = ½ (l)		=	525 / 413	psia (n)

FLOW RATE CALCULATION

$$Q = 314 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{573}{570} = 1.005 = 1.003 \right)^{*} = 315 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{511.707}{358.248} \right]^{n} 1.428^{0.85} = 1.3537 = 426 \text{ MCF/da.}$$

SUMMARY

P_c =	826	psia	
Q =	315	Mcf/day	
P_w =	569	psia	
P_d =	413	psia	
D =	426	Mcf/day	

Company Socony Mobil Oil Company, Inc.
By H. J. Dvoracek
Title Proc. Engr.
Witnessed by
Company

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
2396	0.160	8.773	1.404	322,624	324,028	569

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