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

Operator Mobil Oil Company Lease Jicarilla B Well No. 5 LT-MV

Unit A Sec. 20 Twp. 26N Rge. 3W Pay Zone: From 6093' To 6220'

Casing: OD 5½" WT. 14# Set At 6360 Tubing: OD 2-3/8" WT. 4.7# T. Perf. 6221'

Produced Through: Casing ^ Tubing x Gas Gravity: Measured .666 Estimated

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

Meter Run Size 4.026" Orifice Size 0.500 Type Chart Sq. Rt. Type Taps Flg.

OBSERVED DATA

Flowing casing pressure (Dwt)		psig + 12 =		psia (a)
Flowing tubing pressure (Dwt)	454	psig + 12 =	466	psia (b)
Flowing meter pressure (Dwt)	454	psig + 12 =	466	psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:				
Normal chart reading		psig + 12 =		psia (d)
Square root chart reading (6.80)² x spring constant	10	=	462	psia (d)
Meter error (c) - (d) or (d) - (c)	±	=	4	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 (6.75)² x sp. const.	10	=	456	psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		=	460	psia (h)
P_t = (h) + (f)		=	460	psia (i)
Wellhead casing shut-in pressure (Dwt)		psig + 12 =		psia (j)
Wellhead tubing shut-in pressure (Dwt)	538	psig + 12 =	550	psia (k)
P_c = (j) or (k) whichever well flowed through		=	550	psia (l)
Flowing Temp. (Meter Run)	73 °F + 460	=	533	°Abs (m)
P_d = ½ P_c = ½ (l)		=	275	psia (n)

FLOW RATE CALCULATION

$$Q = 82 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{21.59}{21.49} = 1.005 \right)^{*} = 82 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{226.9}{90.7} \right]^{n} = 82 \left[2.5 \right]^{.75} = 82 \times 1.989 = 163 \text{ MCF/da.}$$

SUMMARY

P_c = 550 psia
Q = 82 Mcf/day
P_w = 460 psia
P_d = 275 psia
D = 163 Mcf/day

Company Mobil Oil Company
By Max Beazley By H. C. McKinney
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	$(1-e^{-s})$	$(F_cQ)^2$	$\frac{(FcQ)^2 \quad (1-e^{-s})}{R^2}$	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
4143	.260	.594	.154	211.600	211.754	460

Pool: [illegible] Formation: [illegible]

Purchasing Pipeline: El Paso Natural Gas Co.

Operator: Mobil Oil Company Lease: [illegible] Well No.: [illegible]

Unit: A Sec.: 2 Twp.: [illegible] Rge.: [illegible]

Casing: [illegible] Tubing: 2-3/8" WT. 4.7#

Date of Flow Test: From 5/15/[illegible] To 5/23/[illegible] Date S.I.P. Measured: 5/31/[illegible]

Meter Run Size: 4.026 Orifice Size: 1.500

OBSERVED DATA

[illegible]

FLOW RATE CALCULATION

$Q = 82$ MCF/D

21.40

DELIVERABILITY CALCULATION

$D = 153$ MCF/D

1.990 · 226.9 · 82

SUMMARY

P_c =	559	psia
Q =	82	Mcf/day
P_w =	460	psia
P_d =	273	psia
D =	153	Mcf/day

Company: Mobil Oil Company

By: [illegible]

Title: Prod. Engr.

Witnessed by: [illegible]

Company: [illegible]

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

REMARKS OR FRICTION CALCULATIONS

[illegible]