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-Mesaverde Formation Mesaverde County San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 12/12/57

Operator The Ohio Oil Company Lease N. M. 021123 Ohio Govt. 1-8 Well No. 1

Unit M Sec. 8 Twp. 31N Rge. 12W Pay Zone: From 4720 To 4965

Casing: OD 5" Liner WT. 15# Set At 4398 to 5055 Tubing: OD 2 3/8 WT. 4.7# T. Perf. 4950-4980

Produced Through: Casing - Tubing X Gas Gravity: Measured .690 Estimated

Date of Flow Test: From 6/1/57 To 6/9/57 * Date S.I.P. Measured 11/18/56

Meter Run Size Orifice Size Type Chart Type Taps

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	psig + 12 =	psia	(g)
Square root chart average reading (7.45) ^{2} x sp. const. 10	= 555	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 555	psia	(h)
P_t = (h) + (f)	= 555	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1066	psig + 12 = 1078	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1056	psig + 12 = 1068	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1068	psia	(l)
Flowing Temp. (Meter Run) 85 °F + 460	= 545	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 534	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{(integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^{*} = 2,068 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{855.4}{749.5} \right]^{n} \quad 2068 \times 1.104 = 2,283 \text{ MCF/da.}$$

SUMMARY

P_c =	1068	psia
Q =	2068	Mcf/day
P_w =	625.4	psia
P_d =	534	psia
D =	2,283	Mcf/day

Company The Ohio Oil Company
By W. A. Fae
Title Production Foreman
Witnessed by
Company El Paso Natural Gas Company

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DEC 12 1957
OIL CON. COM.
DIST. 3

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)2$	$\frac{(FcQ)^2 \quad (1-e^{-S})}{R^2}$	Pt^2 (Column i)		P_w
3416	0.220	377.9	83.1	308	391.1	625.4