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 So. Blanco - Pictured Cliffs Formation Pictured Cliffs County Rio Arriba

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

Operator The Ohio Oil Company Lease Jicarilla Apache Well No. 2

Unit P Sec. 33 Twp. 26N Rge. 5W Pay Zone: From 2891 To 2964

Casing: OD 7 WT. 20# Set At 2897 Tubing: OD 2 3/8 WT. 4.7 T. Perf. 2926-2946

Produced Through: Casing ~~X~~ Tubing X Gas Gravity: Measured .700 Estimated

Date of Flow Test: From 6/30/57 To 7/8/57 * Date S.I.P. Measured 11/22/55

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 (7.90) ^{2} x sp. const. 5	= 312	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	= 312	psia	(h)
P_t = (h) + (f)	= 312	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1010	psig + 12 = 1022	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1010	psig + 12 = 1022	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1022	psia	(l)
Flowing Temp. (Meter Run) 69 °F + 460	= 529	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 511	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{\quad} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \quad = \quad \right)^{*} = 2,742 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \, 2,742 \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{783}{598} \right]^{n} \; 2742 \times .9279 = 2544 \text{ MCF/da.}$$

SUMMARY

P_c =	1022	psia	
Q =	2742	Mcf/day	
P_w =	~~1016~~ 435	psia	
P_d =	511	psia	
D =	~~2544~~ 2544	Mcf/day	

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

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

RECEIVED
DEC 12 1957
OIL CON. COM.
DIST. 3

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)^2$	$\frac{(F_cQ)^2}{R^2}(1-e^{-S})$	P_t^2 (Column i)	$P_c^2 - R^2 = P_w^2$	P_w
2048	0.138	664.6	91.7	97.3	~~1016~~ 189,061	~~446~~ 435