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 [redacted] Formation [redacted] County [redacted]

Purchasing Pipeline [redacted] Date Test Filed 7-3-57

Operator [redacted] Lease [redacted] Well No. 7-27

Unit M Sec. 27 Twp. 30N Rge. 7W Pay Zone: From [redacted] To [redacted]

Casing: OD 7" WT. [redacted] Set At 3026 Tubing: OD 2" WT. [redacted] T. Perf. 2910

Produced Through: Casing [redacted] Tubing X Gas Gravity: Measured [redacted] Estimated .650

Date of Flow Test: From 5-27-57 To 5-05-57 * Date S.I.P. Measured [redacted]

Meter Run Size [redacted] Orifice Size [redacted] Type Chart [redacted] Type Taps [redacted]

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 ch 993		607	
Normal chart average reading	psig + 12 =	psia	(g)
Square root chart average reading ( ) ^{2} x sp. const.	=	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	psia	(h)
P_t = (h) + (f)	= 607	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1095	psig + 12 =	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1108	psig + 12 = 1112	psia	(k)
P_c = (j) or (k) whichever well flowed through	= 1112	psia	(l)
Flowing Temp. (Meter Run) °F + 460	=	°Abs	(m)
P_d = ½ P_c = ½ (l)	= 556	psia	(n)

FLOW RATE CALCULATION

$$Q = \underset{\text{(integrated)}}{37} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{*} = 37 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{987,108}{967,225} \right]^{n} \frac{(1.069)^{.75}}{(1.0213)} = 39 \text{ MCF/da.}$$

SUMMARY

P_c = 1112	psia	Company [redacted]
Q = 37	Mcf/day	By Original signed by G. H. Peppin
P_w = 608	psia	Title [redacted]
P_d = 556	psia	Witnessed by [redacted]
D = 39	Mcf/day	Company [redacted]

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-s})$	$(F_cQ)2$	$\frac{(FcQ)^2}{R^2}$ $(1-e^{-s})$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
3547	0.033	3,478	0.010	368,449	369,099	608