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 San Juan

Purchasing Pipeline El Paso Natural Gas Company Date Test Filed March 10, 1964

Operator Consolidated Oil & Gas, Inc. Lease Williams Well No. 1-24

Unit H Sec. 24 Twp. 31N Rge. 13W Pay Zone: From 4562 To 4622

Casing: OD 5-1/2" WT. 17 lb. Set At 6814 Tubing: OD 1" WT 1.80 lb. T. Perf. 4503

Produced Through: Casing ____ Tubing X Gas Gravity: Measured 0.680 Estimated ____

Date of Flow Test: From 2/24/64 To 3/3/64 * Date S.I.P. Measured 10/3/63

Meter Run Size 4.026 Orifice Size 0.625 Type Chart L-10 Type Taps Flange

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 (7.05)^2 x sp. const. 10	=	497	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	497	psia	(h)
P_t = (h) or (f)	=	497	psia	(i)
Wellhead casing shut-in pressure (Dwt) 1119	psig + 12 =	1131	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1120	psig + 12 =	1132	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	1132	psia	(l)
Flowing Temp. (Meter Run) 60 °F + 460	=	520	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	906	psia	(n)

FLOW RATE CALCULATION

$$Q = \text{_____ (Integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\quad}{\quad} = \quad \right)^{\cdot} = \text{_____ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^n = 197 \left[\frac{460,588}{1,014,698} \right]^{.553} = 109 \text{ MCF/da.}$$

SUMMARY

P_c =	1132	psia
Q =	197	Mcf/day
P_w =	517	psia
P_d =	906	psia
D =	109	Mcf/day

Company Consolidated Oil & Gas, Inc.
By [signature]
Title Chief Engineer
Witnessed by ____
Company ____

RECEIVED
MAR 12 1964
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)	$P_t^2 + R^2$	P_w
3062	0.200	98.585	19.717	247.009	266.726	517