INITIAL & ANNUAL

Form C-122-A
Revised April 20, 1955

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 Basin Formation Dakota County Rio Arriba

Purchasing Pipeline El Paso Natural Gas Co. Date Test Filed February 7, 1963

Operator Consolidated Oil & Gas, Inc. Lease Tribal "C" Well No. 10-7

Unit J Sec. 7 Twp. 26N Rge. 3W Pay Zone: From 7798 To 8006

Casing: OD 5-1/2 WT. 17 & 15.5 Set At 3283-8040' Liner Tubing: OD 1-1/2" WT. 2.90 T. Perf. 7650

Produced Through: Casing ____ Tubing X Gas Gravity: Measured .702 Estimated ____

Date of Flow Test: From 1-3-63 To 1-10-63 * Date S.I.P. Measured December 4, 1962

Meter Run Size 4.000 Orifice Size 0.750 Type Chart L-10 Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) Pictured Cliffs	psig + 12 =		psia	(a)
Flowing tubing pressure (Dwt) 547	psig + 12 =	559	psia	(b)
Flowing meter pressure (Dwt) 544	psig + 12 =	556	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken):				
Normal chart reading	psig + 12 =		psia	(d)
Square root chart reading (7.36)^2 x spring constant 10	=	542	psia	(d)
Meter error (c) - (d) or (d) - (c) ±	=	14	psi	(e)
Friction loss, Flowing column to meter: (b) - (c) Flow through tubing: (a) - (c) Flow through casing	=	3	psi	(f)
Seven day average static meter pressure (from meter chart):				
Normal chart average reading	psig + 12 =		psia	(g)
Square root chart average reading (7.35)^2 x sp. const. 10	=	540	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	554	psia	(h)
P_t = (h) + (f)	=	557	psia	(i)
Wellhead casing shut-in pressure (Dwt)	psig + 12 =		psia	(j)
Wellhead tubing shut-in pressure (Dwt) 1992	psig + 12 =	2004	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	2004	psia	(l)
Flowing Temp. (Meter Run) ____ °F + 460	=		°Abs	(m)
P_d = ½ P_c = ½ (l)	=	1002	psia	(n)

FLOW RATE CALCULATION

$$Q = 358 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{556}{542} = \frac{23.5796}{23.2809} = 1.013 \right)^* = 363 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{3,012,012}{3,692,255} \right]^n = .859 = 312 \text{ MCF/da.}$$

SUMMARY

P_c =	2004	psia	
Q =	363	Mcf/day	
P_w =	~~569~~ 567	psia	
P_d =	1002	psia	
D =	312	Mcf/day	

Company Consolidated Oil & Gas, Inc.

By W. D. Williams

Title Chief Engineer

Witnessed by ____

Company ____

RECEIVED
FEB 11 1963
OIL CON. COM.

* This is date of completion test.

* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_cQ)2$	$\frac{(FcQ)^2 (1-e^{-S})}{R^2}$	Pt^2 (Column i)	$P_t^2 + R^2$	P_w
5370	0.323	35.641	12.938	310.249	323.187	~~569~~ 567

OK