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 West Kuts Formation Pictured Cliffs County San Juan

Purchasing Pipeline Southern Union Gas Co. Date Test Filed May 27, 1956

Operator Kuts Canon Oil & Gas Co. Lease Kuts Well No. 4-M

Unit M Sec. 30 Twp. 27 N Rge. 10 W Pay Zone: From 1615 To 1655

Casing: OD 5-1/2 WT. 14# Set At 1609 Tubing: OD 1" WT. 1.7 T. Perf. 1620

Produced Through: Casing X Tubing ____ Gas Gravity: Measured ____ Estimated .667

Date of Flow Test: From 4/23/56 To 4/30/56 * Date S.I.P. Measured ____

Meter Run Size 4" Orifice Size ____ Type Chart Normal 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 195	psig + 12 =	207	psia	(g)
Square root chart average reading ( )^2 x sp. const.	=	—	psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)	=	207	psia	(h)
P_t = (h) + (f)	=	207	psia	(i)
Wellhead casing shut-in pressure (Dwt) 450	psig + 12 =	462	psia	(j)
Wellhead tubing shut-in pressure (Dwt) 450	psig + 12 =	462	psia	(k)
P_c = (j) or (k) whichever well flowed through	=	462	psia	(l)
Flowing Temp. (Meter Run) 60 °F + 460	=	520	°Abs	(m)
P_d = ½ P_c = ½ (l)	=	231	psia	(n)

FLOW RATE CALCULATION

Q = ____ (integrated) X ($\sqrt{(c)}$ / $\sqrt{(d)}$ = ____ = ____)* = ____ MCF/da

DELIVERABILITY CALCULATION

$$D = Q\ 910 \left[\frac{P_c^2 - P_d^2 = 160{,}083}{P_c^2 - P_w^2 = 170{,}595}\right]^{n\ .85} \frac{.9384}{.9474} = 862 \text{ MCF/da.}$$

SUMMARY

P_c =	462	psia
Q =	910	Mcf/day
P_w =	207	psia
P_d =	231	psia
D =	862	Mcf/day

Company Kuts Canyon Oil & Gas Co.
By [signature]
Title Agent
Witnessed by Bruno Giovanini
Company Southern Union Gas Co.

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

REMARKS OR FRICTION CALCULATIONS

GL	(1-e^{-s})	$(F_cQ)^2$	$(F_cQ)^2$ (1-e^{-s}) / R^2	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
Friction negligible, $P_w = P_t$						

OK

OIL CONSERVATION COMMISSION

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