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 Fulcher Kutz Formation Picture Cliff County San Juan

Purchasing Pipeline Southern Union Gas Co. Date Test Filed 1-11-57

Operator King Oil, Inc. Lease Kutz Well No. 10

Unit G Sec. 18 Twp. 28N Rge. 10W Pay Zone: From 1950 To 1994

Casing: OD 7" WT. 17.00 Set At 1950 Tubing: OD 1.315 WT. 1.68 T. Perf. 1977

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

Date of Flow Test: From 12-16-56 To 12-24-56 Date S.I.P. Measured 12-30-56

Meter Run Size 4" Orifice Size 1.000 Type Chart Normal Type Taps

OBSERVED DATA

Flowing casing pressure (Dwt)	168	psig + 12 =	180	psia	(a)
Flowing tubing pressure (Dwt)	168	psig + 12 =	180	psia	(b)
Flowing meter pressure (Dwt)	168	psig + 12 =	180	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:					
Normal chart reading	168	psig + 12 =	180	psia	(d)
Square root chart reading (_____) ^{2} x spring constant		=		psia	(d)
Meter error (c) - (d) or (d) - (c)	±	=	0	psi	(e)
Friction loss, Flowing column to meter:					
(b) - (c) Flow through tubing: (a) - (c) Flow through casing		=	0	psi	(f)
Seven day average static meter pressure (from meter chart):					
Normal chart average reading	183	psig + 12 =	195	psia	(g)
Square root chart average reading (_____) ^{2} x sp. const.		=		psia	(g)
Corrected seven day avge. meter press. (p_f) (g) + (e)		=	195	psia	(h)
P_t = (h) + (f)		=	195	psia	(i)
Wellhead casing shut-in pressure (Dwt)	370	psig + 12 =	382	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	370	psig + 12 =	382	psia	(k)
P_c = (j) or (k) whichever well flowed through		=	382	psia	(l)
Flowing Temp. (Meter Run)	60 °F + 460	=	520	°Abs	(m)
P_d = ½ P_c = ½ (l)		=	191	psia	(n)

FLOW RATE CALCULATION

$$Q = 149 \text{ (integrated)} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{13.42}{13.42} = 1.000 \right)^{*} = 149 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \left[\frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} = \frac{109,443}{107,899} = 1.014 \right]^{n} = 149 \times 1.012^{.85} = 151 \text{ MCF/da.}$$

SUMMARY

P_c =	382	psia
Q =	149	Mcf/day
P_w =	195	psia
P_d =	191	psia
D =	151	Mcf/day

Company Well Production Co.
By N. A. Neely
Title Owner
Witnessed by
Company

* 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

RECEIVED
JAN 14 57
OIL CON. COM.
DIST. 3

Initial
After Fracture