

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 1-11-57Operator 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)	<u>168</u>	psig + 12 =	<u>180</u>	psia	(a)
Flowing tubing pressure (Dwt)	<u>168</u>	psig + 12 =	<u>180</u>	psia	(b)
Flowing meter pressure (Dwt)	<u>168</u>	psig + 12 =	<u>180</u>	psia	(c)
Flowing meter pressure (meter reading when Dwt. measurement taken:					
Normal chart reading	<u>168</u>	psig + 12 =	<u>180</u>	psia	(d)
Square root chart reading () ² x spring constant		=		psia	(d)
Meter error (c) - (d) or (d) - (c)		±	<u>0</u>	psi	(e)
Friction loss, Flowing column to meter:			<u>0</u>	psi	(f)
(b) - (c) Flow through tubing; (a) - (c) Flow through casing					
Seven day average static meter pressure (from meter chart):					
Normal chart average reading	<u>183</u>	psig + 12 =	<u>195</u>	psia	(g)
Square root chart average reading () ² x sp. const.		=		psia	(g)
Corrected seven day avge. meter press. (p _f) (g) + (e)		=	<u>195</u>	psia	(h)
P _t = (h) + (f)		=	<u>195</u>	psia	(i)
Wellhead casing shut-in pressure (Dwt)	<u>370</u>	psig + 12 =	<u>382</u>	psia	(j)
Wellhead tubing shut-in pressure (Dwt)	<u>370</u>	psig + 12 =	<u>382</u>	psia	(k)
P _c = (j) or (k) whichever well flowed through		=	<u>382</u>	psia	(l)
Flowing Temp. (Meter Run)	<u>60</u> °F + 460	=	<u>520</u>	° Abs	(m)
P _d = ½ P _c = ½ (l)		=	<u>191</u>	psia	(n)

FLOW RATE CALCULATION

$$Q = \frac{149}{(\text{integrated})} \times \left(\frac{\sqrt{(c)} = 13.42}{\sqrt{(d)} = 13.42} = \frac{11000}{13.42} \right) = 149 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

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

SUMMARY

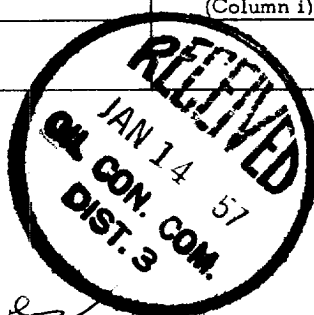
P _c =	<u>382</u>	psia
Q =	<u>149</u>	Mcf/day
P _w =	<u>195</u>	psia
P _d =	<u>191</u>	psia
D =	<u>151</u>	Mcf/day

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 _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		



Oil Initial after workover