

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)

AFTER WORKOVER

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. 4
Unit A Sec. 34 Twp. 28N Rge. 10W Pay Zone: From 1871 To 1927
Casing: OD 6 5/8" WT. 17.00 Set At 1871 Tubing: OD 1.315 WT. 1.68 T. Perf. 1907
Produced Through: Casing X Tubing _____ Gas Gravity: Measured .667 Estimated _____
Date of Flow Test: From 12-23-56 To 1-31-57 * Date S.I.P. Measured 1-6-57
Meter Run Size 4" Orifice Size 1.250 Type Chart Normal Type Taps _____

OBSERVED DATA

Flowing casing pressure (Dwt) 200 psig + 12 = 212 psia (a)
Flowing tubing pressure (Dwt) 200 psig + 12 = 212 psia (b)
Flowing meter pressure (Dwt) 200 psig + 12 = 212 psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading 200 psig + 12 = 212 psia (d)
Square root chart reading (_____) ² x spring constant _____ = 0 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 220 psig + 12 = 232 psia (g)
Square root chart average reading (_____) ² x sp. const. _____ = _____ psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 232 psia (h)
P_t = (h) + (f) _____ = 232 psia (i)
Wellhead casing shut-in pressure (Dwt) 422 psig + 12 = 434 psia (j)
Wellhead tubing shut-in pressure (Dwt) 422 psig + 12 = 434 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 434 psia (l)
Flowing Temp. (Meter Run) 60 °F + 460 _____ = 520 °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 217 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{247}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{14.56}{14.56} = 1.000 \right) = 247 \text{ MCF/da}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{247}{\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{141,267}{134,582} \right]^{.85} \cdot 1.045} = 258 \text{ MCF/da.}$$

SUMMARY

P_c = 434 psia
Q = 247 Mcf/day
P_w = 232 psia
P_d = 217 psia
D = 258 Mcf/day

Company Well Production Co.

By E. 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 R ²	(1-e ^{-S})	P _t ² (Column i)	P _t ² + R ²	P _w

OK Initial after workover

