

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Operator Flannery Prod. Corp. Lease 0816 Well No. 1
Unit C Sec. 22 Twp. 30N Rge. 11W Pay Zone: From 6000 To 6072
Casing: OD 4 1/2 WT. 9.5 & 11.6 Set At 0816 Tubing: OD 2 1/8 WT. 4.6 T. Perf. 0816
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .605 Estimated _____
Date of Flow Test: From _____ To _____ * Date S.I.P. Measured 6-21-61
Meter Run Size 4" Orifice Size 1.750 Type Chart 22 Type Taps Flange

Flowing casing pressure (Dwt)	<u>1180</u>	psig + 12 =	<u>1192</u>	psia	(a)	
Flowing tubing pressure (Dwt)	<u>1094</u>	psig + 12 =	<u>1106</u>	psia	(b)	
Flowing meter pressure (Dwt)	<u>885</u>	psig + 12 =	<u>897</u>	psia	(c)	
Flowing meter pressure (meter reading when Dwt. measurement taken:						
Normal chart reading		psig + 12 =		psia	(d)	
Square root chart reading (<u>7.0</u>) ² x spring constant	<u>10</u>	=	<u>875</u>	psia	(d)	
Meter error (c) - (d) or (d) - (c)		±	<u>+1</u>	psi	(e)	
Friction loss, Flowing column to meter:						
(b) - (c) Flow through tubing: (a) - (c) Flow through casing		=	<u>+329</u>	psi	(f)	
Seven day average static meter pressure (from meter chart):						
Normal chart average reading		psig + 12 =		psia	(g)	
Square root chart average reading (<u>7.05</u>) ² x sp. const.	<u>10</u>	=	<u>885</u>	psia	(g)	
Corrected seven day avge. meter press. (p _f) (g) + (e)		=	<u>884</u>	psia	(h)	
P _t = (h) + (f)		=	<u>1113</u>	psia	(i)	
Wellhead casing shut-in pressure (Dwt)	<u>1064</u>	psig + 12 =	<u>1076</u>	psia	(j)	
Wellhead tubing shut-in pressure (Dwt)	<u>1057</u>	psig + 12 =	<u>1069</u>	psia	(k)	
P _C = (j) or (k) whichever well flowed through		=	<u>1069</u>	psia	(l)	
Flowing Temp. (Meter Run)	<u>64</u>	°F + 460	=	<u>524</u>	°Abs	(m)
P _d = 1/2 P _C = 1/2 (l)		=	<u>534</u>	psia	(n)	

Q = 2726 X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}} = \frac{\cancel{1000}}{} = \frac{.0001}{}} \right)^2 = \underline{2726} \text{ MCF/day}$

$$D = Q \frac{2716}{\left[\frac{(P_c^2 - P_d^2) = 2,443,000}{(P_c^2 - P_w^2) = 2,044,100} \right]^{.75} \frac{1.1000}{(1.2665)^{.75}}} = 3225 \text{ MCF/da.}$$

Company _____
By _____
Title _____
Witnessed by _____
Company _____

REMARKS OR FRICTION CALCULATIONS

GL	$(1-e^{-S})$	$(F_c Q)^2$	$(F_c Q)^2 (1-e^{-S})$ R^2	P_t^2 (Column i)	$P_t^2 + R^2$	P_w
4105	.256	652.077	168.216	1225.788	1407.895	1100



