

FEUILLE A #2
NW/NE 17-29N-10W
MONTHLY GAS PRODUCTION ALLOCATION FORMULA

GENERAL EQUATION

$$Q_t = Q_{ftc} + Q_{pc}$$

WHERE: Q_t = Total Monthly Production (Mcf / Month)
 Q_{ftc} = Fruitland Coal (ftc) Monthly Production (Mcf / Month)
 Q_{pc} = Pictured Cliffs (pc) Monthly Production (Mcf / Month)

Rearranging the Equation to Solve for Q_{ftc} :

$$Q_{ftc} = Q_t - Q_{pc}$$

Any Production Rate Over What is Calculated for the Pictured Cliffs (Q_{pc}), Using the Applied Formula is Fruitland Coal Production (Q_{ftc}).

The Pictured Cliffs (Q_{pc}) Formation Production Formula is:

$$Q_{pc} = Q_{pci} \times e^{\{-(D_{pc}) \times (t)\}}$$

WHERE: Q_{pci} = Pictured Cliffs Initial Monthly Rate = 598 Mcf/M (Determined from the attached decline curve)
 D_{pc} = Pictured Cliffs Monthly Decline Rate Calculated from Decline Curve and Material Balance Analysis:
 $D_{pc} = (0.0011/M)$

THUS: $Q_{ftc} = Q_t - Q_{pci} \times e^{\{-(0.0011) \times (t)\}}$

NOTE: (t) is in Months

FEUILLE A : 2 : PICTURED CLIFFS

* WATER
 * OIL/GAS
 * OIL
 * GAS

100
 10
 10
 10
 10
 10

□ SIWHP
 + FWHP

Prop 45 *	
<input checked="" type="radio"/> *GAS Mcf/d	
<input type="radio"/> *OIL Bbl/d	
<input type="radio"/> *OIL/GAS	
<input type="radio"/> *WATER Bbls/d	
<input checked="" type="checkbox"/> RateTime	
<input checked="" type="checkbox"/> Semi Log	
EUR	1,377,346
Cum	1,112,238
Rem	265,108
Rem%	19.2%
Yrs	51.67
Date	1/1/1995
Act	0
Qmo	598
Q	19.3
n	0
De	1.293
Qab	10
GetQual	LJB

72 74 76 78 80 82 84 86 88 90 92 94 96 98 00 02 04

Major = GAS