

McGRATH #3
 NW/SE 3-29N-12W
 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 = 662 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} = (0.0018/M)

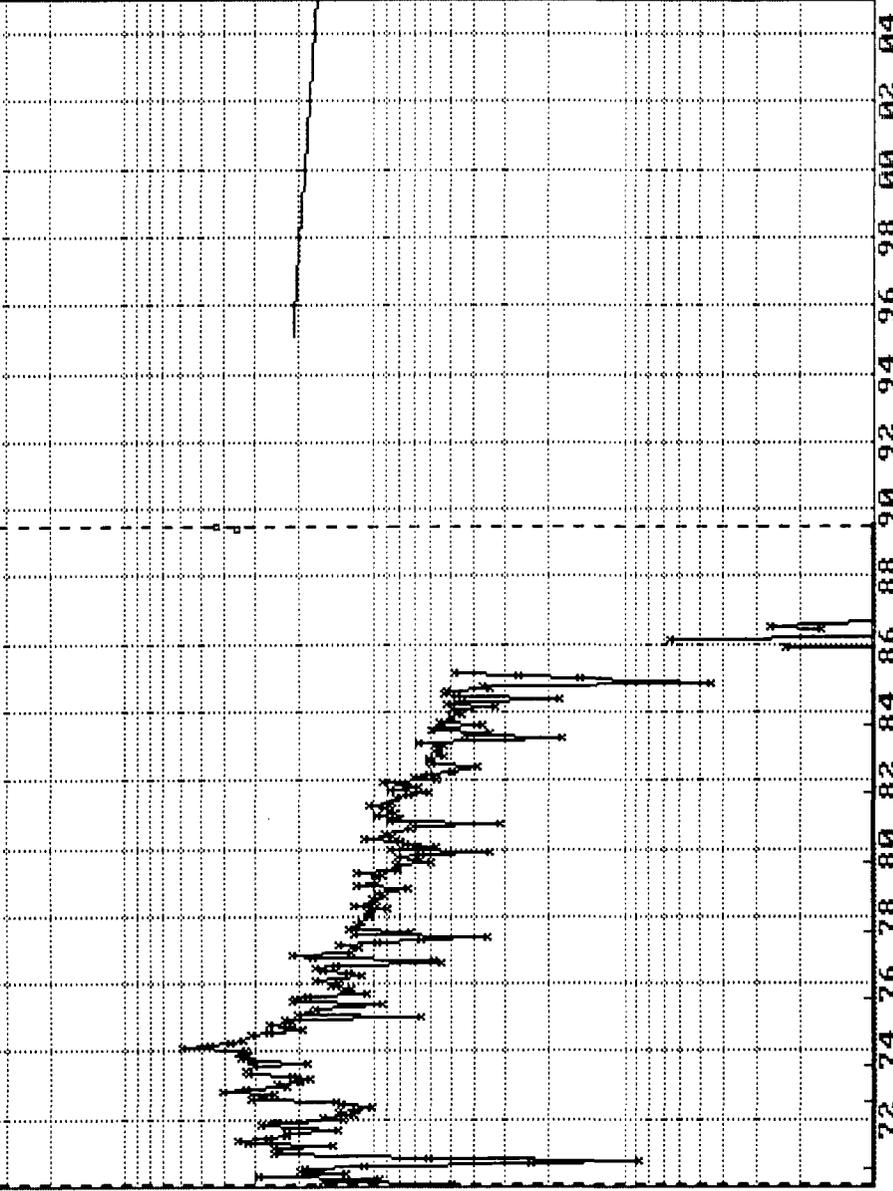
THUS: $Q_{ftc} = Q_t - Q_{pci} \times e^{\{-(0.0018) \times (t)\}}$

NOTE: (t) is in Months

MCGRATH : 3 : PICTURED CLIFFS

* WATER 100
 * OIL/GAS 10
 * OIL 10
 * GAS 100

SIWHP
 FWHP



Prop 19	
<input checked="" type="radio"/> * GAS Mcf/d	EUR 613,784
<input type="radio"/> * OIL Bbl/d	Cum 423,270
<input type="radio"/> * OIL/GAS	Rem 190,514
<input type="radio"/> * WATER Bbls/d	Rem% 31.0%
<input checked="" type="checkbox"/> RateTime	Yrs 35.00
<input checked="" type="checkbox"/> Semi Log	Date 1/1/1995
Act 0	
Qmo 662	
Q 21.4	
n 0	
De 2.18	
Qab 10	
GetQual LJB	

Major = GAS