

PAYNE #2
SW/SE 35-30N-11W
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 = 687 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} = (0.0023/M)

THUS: $Q_{ftc} = Q_t - Q_{pci} \times e^{-\{0.0023\} \times (t)}$

NOTE: (t) is in Months

PAYNE I 2 : PICTURED CLIFFS

Prop 24

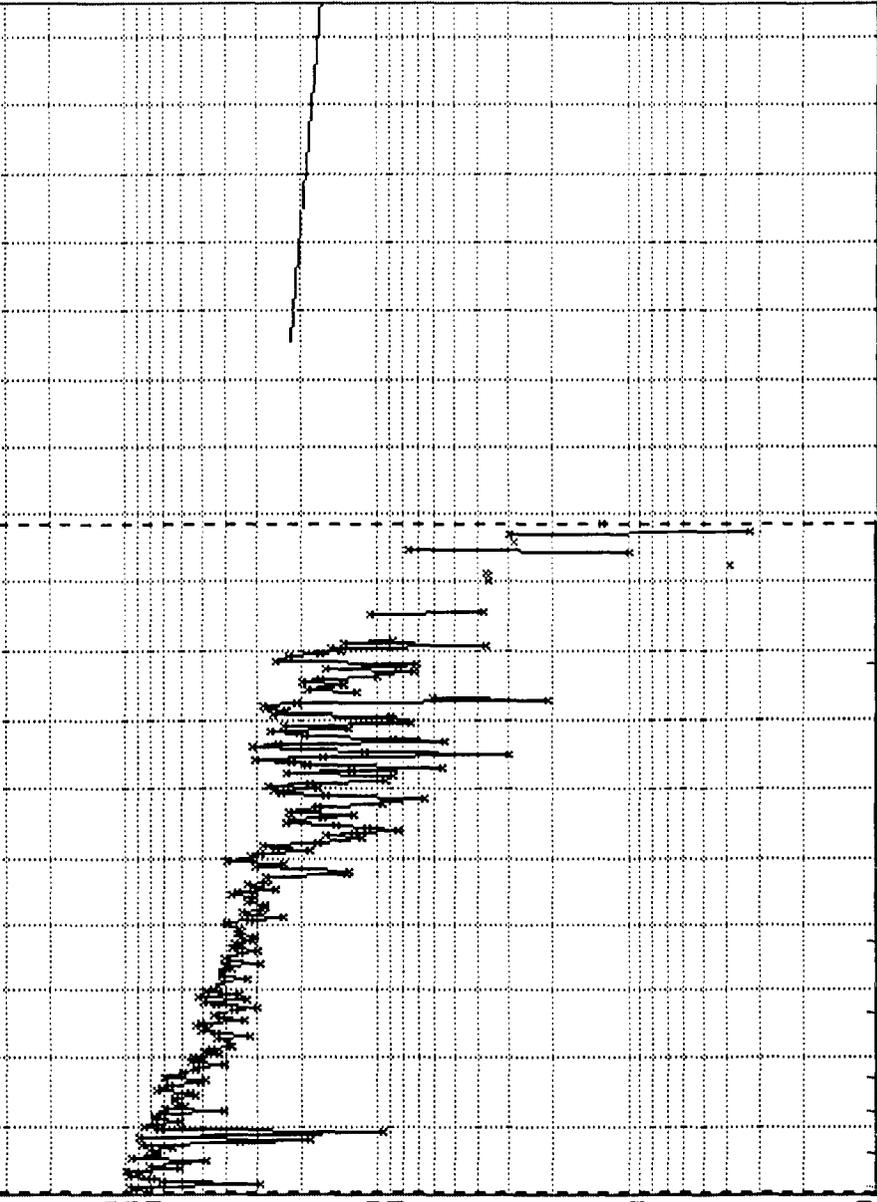
GAS Mcf/d
 OIL Bbl/d
 OIL/GAS
 WATER Bbls/d

RateTime
 Semi Log

EUR 925,212
 Cum 763,990
 Rem 161,222
 Rem% 17.4%
 Yrs 29.00
 Date 1/1/1995
 Act 0
 Qmo 607
 Qn 22.2
 De 2.753
 Qab 10

GetQual HEARING

SIMHP
 FWHP



• WATER 100
 • OIL/GAS 10
 • OIL 10
 • GAS 100

100 10 10 100
 10 10 10 10
 1 0.1 0.1 1
 1 0.1 0.1 1

Major = GAS