Sanchez A Com #2

MONTHLY GAS PRODUCTION ALLOCATION FORMULA

GENERAL EQUATION

Qt = Qftc + Qpc

WHERE: Qt = TOTAL MONTHLY PRODUCTION (MCF/MONTH)

Qftc = FRUITLAND COAL (ftc) MONTHLY PRODUCTION Qpc = PICTURED CLIFFS (pc) MONTHLY PRODUCTION (MCF/MONTH)

REARRANGING THE EQUATION TO SOLVE FOR Qftc:

•...

Qftc = Qt - Qpc

ANY PRODUCTION RATE OVER WHAT IS CALCULATED FOR THE PICTURED CLIFFS (PC) USING THE APPLIED FORMULA IS FRUITLAND COAL (FTC) PRODUCTION.

PICTURED CLIFFS (PC) FORMATION PRODUCTION FORMULA IS:

	Qpc	=	Qpci X e^{-(Dpc) X (t)}
WHERE:	Qpci	=	INITIAL PC MONTHLY FLOW RATE (DETERMINED FROM LAST MONTH OF PC ONLY PRODUCTION, PRIOR TO RECOMPLETION & COMMINGLE)
	Qpci	=	$100 \text{ MCFD } X \ 30.4 = 3040 \text{ MCFM}$
	Dpc	3	PICTURED CLIFFS MONTHLY DECLINE RATE CALCULATED FROM DECLINE CURVE & MATERIAL BALANCE ANALYSIS:
	Dpc	-	(7.170/Yr) per year = $(0.59750/M)$
THUS:	Qftc	=	Qt - 3040 X e^{-(0.59750) X (t)}
WHERE:	(t) IS IN MONTHS		

FROM FIRST DATE OF COMMINGLED PRODUCTION =

REFERENCE: Thompson, R.S., Wright, J.D., "Oil Property Evaluation", Pages 5-2, 5-3, 5-4.