BETHULIE		strat.	level	nodule(level)		nodule(ind.)		nodule(avg.)		tusk(level)		tusk(ind.)		diag. calcite	
sample		field	plot	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$
Bn17		16.5	140.0	-4.7	-13.4										
Bn2		12.5	136.0	-3.2	-14.0										
Bn2a		12.5	136.0	-3.5	-14.7										
Bn1		8.5	132.0	-1.6	-13.6										
Bn3		-1.8	121.8	-7.0	-14.9										
Bn12		-8.0	115.5	-8.3	-15.2										
Bn13		-16.0	107.5	-6.3	-14.5										
Bn14		-26.0	97.5	-7.0	-15.7										
Bn16		-34.0	89.5	-2.8	-15.3										
Bn4		-36.0	87.5	-9.1	-16.2										
Bn5		-43.0	80.5	-7.2	-16.8										
Bn6		-52.5	71.0	-4.5	-18.1										
Bn7		-60.0	63.5	-11.1	-16.6										
Bn8		-68.0	55.5	-16.4	-20.3										
Bn11		-99.0	24.5	-6.0	-19.0										
Bn10		-109.0	14.5	-7.7	-19.1										
Bn17-A		16.5	140.0					-7.3	-14.4						
Bn17-B		16.5	140.0					-2.0	-12.5						
Bn2-A		12.5	136.0			-3.4	-13.9	-3.7	-14.3						
Bn2-A	replicate	12.5	136.0			-4.0	-14.6								
Bn2-B		12.5	136.0					-2.6	-13.7						
Bn2a-A		12.5	136.0					-4.0	-17.0						
Bn2a-B		12.5	136.0					-2.9	-12.5						
Bn1-A		8.5	132.0					-1.3	-13.9						
Bn1-B		8.5	132.0					-2.0	-13.3						
Bn3-A		-1.8	121.8			-5.8	-16.2	-5.8	-16.1						
Bn3-A	replicate	-1.8	121.8			-5.8	-16.0								
Bn3-B		-1.8	121.8					-8.2	-13.7						
Bn12-A		-8.0	115.5					-7.1	-15.9						
Bn12-B		-8.0	115.5					-9.5	-14.6						
Bn13-A		-16.0	107.5			-7.4	-15.4	-4.8	-14.6						
Bn13-A		-16.0	107.5			-2.3	-13.7								
Bn13-B		-16.0	107.5					-7.9	-14.4						
Bn14-A		-26.0	97.5			-5.1	-15.0	-4.2	-14.9						
Bn14-A	replicate	-26.0	97.5			-3.4	-14.7								
Bn14-B		-26.0	97.5					-9.8	-16.5						
Bn16-A		-34.0	89.5					-3.7	-15.9						
Bn16-B		-34.0	89.5					-1.9	-14.7						
Bn4-A		-36.0	87.5					-7.9	-16.2						
Bn4-B		-36.0	87.5					-10.4	-16.1						
Bn5-A		-43.0	80.5					-5.0	-15.6						
Bn5-B		-43.0	80.5					-9.4	-18.0						
Bn6-A		-52.5	71.0			-4.6	-19.0	-4.5	-18.9						
Bn6-A	replicate	-52.5	71.0			-4.5	-18.7								
Bn6-B		-52.5	71.0					-5.0	-17.1						
Bn6-C		-52.5	71.0					-3.8	-18.4						
Bn7-A		-60.0	63.5			-12.3	-16.7	-13.8	-16.6						
Bn7-A	replicate	-60.0	63.5			-13.1	-16.4								
Bn7-A	replicate2	-60.0	63.5			-15.9	-16.8								
Bn7-B		-60.0	63.5			-8.8	-17.3	-8.4	-16.5						
Bn7-B	replicate	-60.0	63.5			-8.1	-15.6								
Bn8-A		-68.0	55.5			-18.1	-21.9	-18.0	-21.7						
Bn8-A	replicate	-68.0	55.5			-15.7	-21.3								
Bn8-A	replicate2	-68.0	55.5			-20.05	-22.06								
Bn8-B		-68.0	55.5			-16.8	-21.3	-16.5	-19.9						
Bn8-B	replicate	-68.0	55.5			-16.13	-18.54								
Bn8-C		-68.0	55.5			-15.5	-20.9	-14.9	-19.3						
Bn8-C	replicate	-68.0	55.5			-14.37	-17.62								
Bn11-A		-99.0	24.5			-5.7	-19.8	-5.0	-18.5						
Bn11-A	replicate	-99.0	24.5			-4.3	-17.1								
Bn11-B		-99.0	24.5					-7.4	-19.3						
Bn11-C		-99.0	24.5					-5.6	-19.3						
Bn10-A		-109.0	14.5			-8.7	-18.8	-7.7	-19.1						

BETHULIE		strat.	level	nodule(level)		nodule(ind.)		nodule(avg.)		tusk(level)		tusk(ind.)		diag. calcite	
sample		field	plot	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$
Bn10-A	replicate	-109.0	14.5			-6.6	-19.5								
Bn10-A	replicate2	-109.0	14.5			-8.0	-18.9								
BT9-12		13.5	137.0							-9.9	-20.3				
BT13		13.0	136.5							-11.4	-19.4				
BT7		11.0	134.5							-10.6	-17.5				
BT1-6		6.0	129.5							-11.3	-18.7				
BT33		-8.0	115.5							-10.5	-19.6				
BT17		-36.0	87.5							-12.5	-19.8				
BT18		-43.0	80.5							-10.6	-19.7				
BT21		-60.0	63.5							-12.5	-18.3				
BT24		-67.0	56.5							-14.7	-20.7				
BT22-23		-67.5	56.0							-14.4	-18.4				
BT26		-76.0	47.5							-13.9	-17.9				
BT27		-79.0	44.5							-11.4	-18.2				
BT29		-92.0	31.5							-11.8	-17.2				
BT31		-96.0	27.5							-12.3	-18.0				
BT16		-115.0	8.5							-12.9	-18.8				
BT15		-117.0	6.5							-13.7	-19.9				
BT11	Lystro	13.5	137.0									-9.9	-20.3		
BT13	Lystro	13.0	136.5									-11.4	-19.4		
BT7	Lystro	11.0	134.5									-10.6	-17.5		
BT1	Lystro	6.0	129.5									-12.2	-18.2		
BT2	Lystro	6.0	129.5									-9.0	-19.2		
BT3	Lystro	6.0	129.5									-11.6	-19.5		
BT4	Lystro	6.0	129.5									-11.9	-18.8		
BT5	Lystro	6.0	129.5									-11.7	-18.1		
BT33	Lystro	-8.0	115.5									-10.5	-19.6		
BT17	Lystro	-36.0	87.5									-12.5	-19.8		
BT18	Lystro	-43.0	80.5									-10.6	-19.7		
BT21	Lystro	-60.0	63.5									-12.5	-18.3		
BT24	Dicyno	-67.0	56.5									-14.7	-20.7		
BT24(F)	Dicyno	-67.0	56.5									-15.3	-19.4		
BT24(W)	Dicyno	-67.0	56.5									-8.7	-16.5		
BT23	Dicyno	-67.5	56.0									-13.8	-18.5		
BT22	Lystro	-67.5	56.0									-15.0	-18.3		
BT26	Lystro	-76.0	47.5									-13.9	-17.9		
BT27	Lystro	-79.0	44.5									-11.4	-18.2		
BT29	Dicyno	-92.0	31.5									-11.8	-17.2		
BT31	Diict	-96.0	27.5									-12.3	-18.0		
BT16	Dicyno	-115.0	8.5									-12.9	-18.8		
BT15	Dicyno	-117.0	6.5									-13.7	-19.9		
white	Bt12	13.5	137.0											-6.0	-11.4
smoky cr	Bt12	13.5	137.0											-3.8	-10.4
smoky cr	Bt7	9.5	133.0											-4.8	-9.8
white	Bt4	6.0	129.5											-3.8	-10.3
smoky cr	Bt1	6.0	129.5											-2.9	-10.1
red string	Bt1	6.0	129.5											-7.6	-12.4
	bt35-spa	-25.0	98.5											-11.53	-12.04
	bn15b-sp	-34.0	89.5											-7.19	-14.95
white	Bt19	-47.5	76.0											-5.8	-10.5

DOORNPLAATS		strat. level		nodule(level)		nodule(ind.)		nodule(avg.)		diag. calcite	
sample		field	plot	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$
Dn29-A		339	359	-6.3	-19.8						
Dn28-A		334	354	-6.1	-21.5						
Dn27-A		326	346	-7.6	-22.0						
Dn26-A		296	316	-7.4	-21.9						
Dn25-A		282	302	-6.2	-19.7						
Dn24-A		273	293	-5.7	-22.1						
Dn22-A		263	283	-6.6	-21.9						
Dn23-A		262	282	-5.8	-20.5						
Dn21-A		239	259	-7.7	-22.1						
Dn17-A		221	241	-8.6	-21.8						
Dn16-A		204	224	-8.0	-21.3						
Dn15-A		183	203	-10.7	-21.8						
Dn14-A		151	171	-6.6	-21.9						
Dn13-A		123	143	-7.1	-21.9						
Dn20-A		103	123	-8.3	-22.2						
Dn19-A		86	106	-5.2	-21.9						
Dn18-A		70	90	-6.7	-21.1						
Dn12		50	70	-4.6	-22.1						
Dn11-A		43	63	-4.7	-20.5						
Dn10-A		32	52	-4.5	-21.9						
Dn9-A		23	43	-11.2	-21.0						
Dn31-A		4	24	-5.3	-22.1						
Dn8-A		-1	20	-7.5	-21.8						
Dn2-A		-7	13	-9.5	-20.9						
Dn1-A		-8	12	-9.1	-19.5						
Dn30-A		-12	8	-6.6	-18.8						
Dn3		-15	5	-9.3	-20.5						
Dn6-A		-16	4	-7.7	-20.5						
Dn4-A		-17	4	-8.6	-19.9						
Dn5-A		-17	3	-6.9	-20.8						
Dn29-A		339	359					-7.3	-18.4		
Dn29-B		339	359					-5.3	-21.2		
Dn28-A		334	354					-7.0	-21.8		
Dn28-B		334	354					-5.3	-21.1		
Dn27-A		326	346					-7.5	-22.3		
Dn27-B		326	346					-7.8	-21.7		
Dn26-A		296	316			-7.2	-21.6	-6.8	-21.6		
Dn26-A	replicate	296	316			-6.5	-21.6				
Dn26-B		296	316					-8.1	-22.2		
Dn25-A		282	302					-7.3	-21.8		
Dn25-B		282	302					-5.1	-17.6		
Dn24-A		273	293					-5.5	-22.3		
Dn24-B		273	293					-5.9	-21.8		
Dn22-A		263	283					-7.9	-21.9		
Dn22-B		263	283					-5.3	-21.8		
Dn23-A		262	282					-5.7	-19.6		
Dn23-B		262	282					-6.0	-21.4		
Dn21-A		239	259			-7.7	-22.5	-7.6	-22.3		
Dn21-A	replicate	239	259			-7.6	-22.2				
Dn21-B		239	259					-7.7	-21.9		
Dn17-A		221	241			-4.7	-22.0	-5.6	-21.7		
Dn17-A	replicate	221	241			-6.6	-21.4				
Dn17-B		221	241					-14.2	-21.8		
Dn17-C		221	241					-5.9	-21.8		
Dn16-A		204	224					-8.8	-21.1		
Dn16-B		204	224					-7.6	-21.4		
Dn16-C		204	224					-7.6	-21.4		
Dn15-A		183	203			-18.0	-21.5	-16.0	-21.7		
Dn15-A	replicate	183	203			-14.1	-21.9				

DOORNPLAATS		strat. level		nodule(level)		nodule(ind.)		nodule(avg.)		diag. calcite	
sample		field	plot	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$	$\delta^{13}C$	$\delta^{18}O$
Dn15-B		183	203					-9.2	-21.7		
Dn15-C		183	203					-6.8	-21.9		
Dn14-A		151	171					-6.3	-21.7		
Dn14-B		151	171					-7.7	-22.0		
Dn14-C		151	171					-5.7	-22.1		
Dn13-A		123	143					-6.6	-22.0		
dn13b		123	143					-7.5	-21.8		
Dn20-A		103	123					-8.3	-22.2		
Dn19-A		86	106					-5.4	-21.5		
Dn19-B		86	106					-5.0	-22.2		
Dn18-A		70	90					-6.0	-20.7		
Dn18-B		70	90					-7.3	-21.6		
Dn12-A		50	70			-4.4	-22.4	-4.2	-22.4		
Dn12-A	replicate	50	70			-4.1	-22.5				
dn12b		50	70					-4.9	-21.9		
Dn11-A		43	63					-4.9	-20.0		
Dn11-B		43	63					-4.5	-21.0		
Dn10-A		32	52			-5.2	-22.1	-5.1	-22.2		
Dn10-A	replicate	32	52			-5.0	-22.3				
Dn10-B		32	52					-4.6	-21.9		
Dn10-C		32	52					-3.6	-21.7		
Dn9-A		23	43			-15.6	-20.6	-15.2	-20.6		
Dn9-A	replicate	23	43			-14.8	-20.6				
Dn9-B		23	43					-9.6	-21.0		
Dn9-C		23	43					-9.0	-21.3		
Dn31-A		4	24			-4.6	-22.0	-5.3	-22.1		
Dn31-A	replicate	4	24			-5.9	-22.2				
Dn8-A		-1	20			-5.8	-22.1	-5.7	-22.1		
Dn8-A	replicate	-1	20			-5.6	-22.1				
Dn8-B		-1	20					-6.3	-21.5		
Dn8-C		-1	20					-10.4	-21.9		
Dn2-A		-7	13			-8.8	-21.1	-8.3	-20.9		
Dn2-A	replicate	-7	13			-7.9	-20.6				
Dn2-B		-7	13					-10.7	-21.0		
Dn1-A		-8	12					-10.8	-19.9		
Dn1-B		-8	12					-7.4	-19.1		
Dn30-A		-12	8					-6.8	-18.2		
Dn30-B		-12	8					-6.4	-19.5		
Dn3-A		-15	5					-10.4	-20.0		
dn3b		-15	5					-8.2	-21.0		
Dn6-A		-16	4			-11.3	-20.1	-9.0	-20.2		
Dn6-A	replicate	-16	4			-6.6	-20.3				
Dn6		-16	4					-7.7	-19.6		
Dn32-A		-16	4					-6.4	-21.6		
Dn4-A		-17	4					-10.9	-20.7		
Dn4-B		-17	4					-6.2	-19.1		
Dn5-A		-17	3			-6.7	-20.9	-6.8	-21.0		
Dn5-A	replicate	-17	3			-7.0	-21.0				
Dn5-B		-17	3					-7.0	-20.7		
Dn23-B	spar	262	282							-12.3	-22.6
Dn19-B	spar	86	106							-18.1	-22.9
Dn31-B	spar	4	24							-17.1	-20.0
Dn31-C	spar	4	24							-17.7	-20.4
Dn31	spar	4	24							-16.1	-17.7