

UNL #	Field #	Burial Depth (m)	H ₂ O (%) ^a	K ₂ O (%)	±	U (ppm)	±	Th (ppm)	±	Cosmic (Gy)	Dose Rate (Gy/ka)	D _e (Gy)	No. of Aliquots	Age (ka)
UNL4003	Q20 CxS	0.35	7.5	1.57	0.05	1.99	0.12	12.55	0.47	0.20	2.66±0.10	3.86±0.36	75	1.45±0.14
								Minimum Age Model (Galbraith et al., 1999) =				0.60±0.06		0.23±0.02
UNL4004	Q21 CxS	0.35	9.6	1.90	0.05	1.83	0.10	9.62	0.38	0.20	2.63±0.10	3.95±0.47	72	1.50±0.19
								Minimum Age Model (Galbraith et al., 1999) =				0.77±0.13		0.29±0.05

^a In-situ Moisture Content

Error on De is 1 standard error

Error on age includes random and systematic errors calculated in quadrature

Dose Recovery Test on UNL4003:

Preheat	De	
Temp (°C)	(Gy)	±
180	4.75	0.02
200	4.74	0.03
220	4.78	0.05
240	4.80	0.02
260	4.83	0.01
280	4.96	0.03
Applied Dose =	4.77	Gy
Recovered Dose =	4.81 ±	0.08 Gy

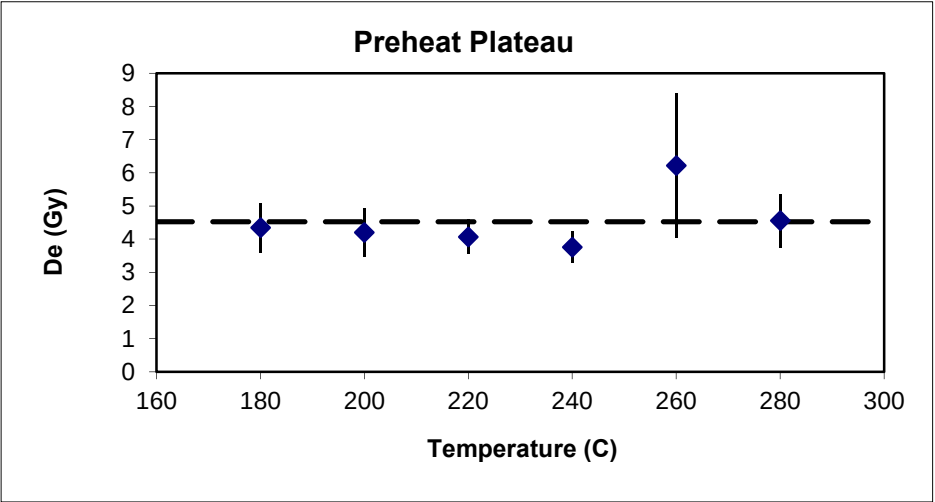
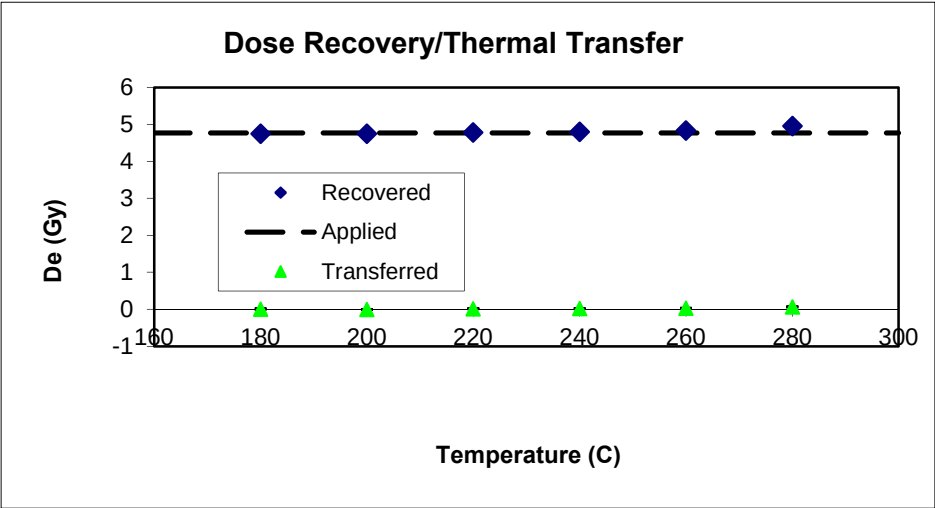
Thermal Transfer Test on UNL4003:

Preheat	De	
Temp (°C)	(Gy)	±
180	0.01	0.01
200	-0.01	0.00
220	0.01	0.01
240	0.02	0.01
260	0.03	0.01
280	0.07	0.01
Thermal Transfer =	0.02 ±	0.02 Gy

Preheat Plateau on UNL4003:

Preheat	De	
Temp (°C)	(Gy)	±
180	4.35	0.75
200	4.21	0.73
220	4.07	0.52
240	3.76	0.46
260	6.22	2.19
280	4.56	0.80

Preheat of 240C used for analyses!



UNL #	Dose Recovery		Skew/ $2\sigma_c^b$	Kurt/ $2\sigma_k^b$	c/c_{crit}^b	k/k_{crit}^b	Overdisp (%) ^c	CAM/Med ^d	CAM/PDF Fit ^e	CAM/Mode ^f	CAM/Mean ^g
	Rec/Apl	±									
UNL4003	1.01	0.00	3.78	5.70	0.31	3.13	80	1.04	1.10	1.05	0.71
UNL4004	1.02	0.01	3.27	2.78	0.28	1.56	99	1.14	1.68	2.95	0.59

^b Bailey & Arnold (2006)

^c Galbraith (2005)

^d Central Age Model/Median

^e Central Age Model/Probability Density Function Fit

^f Central Age Model/Mode

^g Central Age Model/Unweighted Mean