

Project: P22-728

sample field number	ALT-13	material:	Polyhailt
project description	PVF P22-728	grain size:	200-250 µm
number of measurement	0740622m	number:	1
number of irradiation	21-90	notes:	Altusee mine
value of irradiation	0.01020	(± 1sigma)	
duration of irradiation [h]	16.0		
year of irradiation	2007		
julian day of irradiation	157		

conversion from [V] to [cps] by:	6E+07	±	
composition of atmospheric argon:	40Ar/36Ar/jam.	=	295.5
half-life of 37Ar [d]		=	35.1
decay constant of 37Ar [dE-01]		=	1.975E-02
decay constant of 39Ar [dE-01]		=	7.264E-06
decay constant of 40K [dE-01]		=	5.543E-10
correction for Ca-derived Ar:	(36Ar/37Ar)Ca	=	2.250E-04
correction for Ca-derived Ar:	(39Ar/37Ar)Ca	=	6.140E-04
correction for K-derived Ar:	(40Ar/39Ar)K	=	2.660E-02
correction for K-derived Ar:	(38Ar/39Ar)K	=	1.1700E-02

36Ar	+[%]	37Ar	+[%]	38Ar	+[%]	39Ar	+[%]	40Ar	+[%]	date of measurement	
										year	jday
0706022a	2.86574E-06	3.1836	4.16194E-06	4.0084	3.94862E-06	2.8238	7.64693E-06	2.4161	1.49439E-04	0.7054	2007
b 3.0%	3.1660E-06	3.0460	5.4897E-06	3.3039	6.38617E-06	2.3463	1.56504E-05	2.4871	2.56222E-04	0.4554	2007
c 3.2%	3.61804E-06	2.0778	5.24967E-06	1.8328	6.04667E-06	1.8141	1.35177E-05	1.8850	2.08303E-04	0.5963	2007
d 3.5%	4.13733E-06	2.2023	5.94969E-06	2.9838	6.28069E-06	1.8662	3.98841E-05	0.8269	4.69881E-04	0.6801	2007
e 3.7%	4.6829E-06	2.0778	5.24967E-06	1.3328	6.04667E-06	1.1841	1.35177E-05	1.8850	2.08303E-04	0.5963	2007
f 3.9%	5.2305E-06	2.2193	6.29201E-06	2.5430	5.49655E-05	0.7091	4.46247E-03	0.0729	4.81193E-02	0.0285	2007
g 4.3%	5.84139E-06	2.4465	6.55897E-06	2.8215	5.68895E-06	1.2447	1.22841E-05	0.9076	2.04436E-04	0.4027	2007
h 4.3%	6.46772E-06	2.4465	6.55897E-06	2.5182	2.13395E-05	1.7091	1.5114E-03	0.0999	1.73275E-02	0.0332	2007
i 5.7%	7.20540E-06	2.4465	6.55897E-06	2.8215	5.68895E-06	1.2447	1.22841E-05	0.9076	2.04436E-04	0.4027	2007
j 5.7%	7.88138E-06	2.1061	5.73964E-06	1.6227	5.73964E-06	2.7388	3.92800E-05	0.8747	5.47573E-04	0.2002	2007

days elapsed	post-irrad. 37Ar decay factor	number of steps	mean of dec. 37Ar corr. factor
138	1.536E+01	7	1.536E+01
138	1.536E+01		
138	1.536E+01		
138	1.536E+01		
138	1.536E+01		
138	1.536E+01		
138	1.536E+01		

36Ar	+[%]	37Ar	+[%]	38Ar	+[%]	39Ar	+[%]	40Ar	+[%]	%39Ar	cum%39Ar	%40Ar	36Ar/39Ar	36Ar/39Ar	37Ar/39Ar	37Ar/39Ar	38Ar/39Ar	38Ar/39Ar	40Ar/39Ar	40Ar/39Ar	37Ar/39Ar	37Ar/39Ar	39ArK	39ArK	40Ar*	40Ar*	40Ar*/39ArK	40Ar*/39ArK	age	+/- 1sigma	+/- 1sigma		
													meas. +/- [1-sigma abs.]	meas. +/- [1-sigma abs.]	corrected +/- [1-sigma abs.]	corrected +/- [1-sigma abs.]	corrected +/- [1-sigma abs.]	corrected +/- [1-sigma abs.]	corrected +/- [1-sigma abs.]	corrected +/- [1-sigma abs.]	corrected +/- [1-sigma abs.]	corrected +/- [1-sigma abs.]	corrected +/- [1-sigma abs.]	corrected +/- [1-sigma abs.]	corrected +/- [1-sigma abs.]	corrected +/- [1-sigma abs.]	cal cul at ed	+/- [1-sigma abs.]	[Ma]	+0 [Ma]			
0706022a	2.86574E-06	3.1836	4.16194E-06	4.0084	3.94862E-06	2.8238	7.64693E-06	2.4161	1.49439E-04	0.7054	2007	19.53	0.007639626	0.016721403	0.185999	0.03838502	0.360172	0.028604539	13.596906	0.758438837	2.249143626	0.543492051	486.628995	26.897752	1.32333E+03	2451.629679	2.653924	4.918816	50.1	91.7	9.186E+01		
b 3.0%	3.1660E-06	3.0460	5.4897E-06	3.3039	6.38617E-06	2.3463	1.56504E-05	2.4871	2.56222E-04	0.4554	2007	18.25	0.011017	0.005189266	0.031172	0.009119342	0.010416	0.009119342	11.634174	0.263823421	0.47891416	0.14003507	1401.964721	24.463956	1.175740398	2159.69191	8.386267	1.547359	153.9	27.2	2.725E+01		
c 3.2%	3.61804E-06	2.0778	5.24967E-06	1.8328	6.04667E-06	1.8141	1.35177E-05	1.8850	2.08303E-04	0.5963	2007	98.55	0.000480	0.000118368	0.000307	0.000147595	0.009973	0.000231116	9.959688	0.001932076	0.004722243	0.002267069	68160.37621	71.672795	647620.8818	2375.656184	8.788852	0.037441	178.4	1.0	1.092E+00		
d 3.5%	4.13733E-06	2.2023	5.94969E-06	2.9838	6.28069E-06	1.8662	3.98841E-05	0.8269	4.69881E-04	0.6801	2007	14.50	14.92	96.55	0.000207	0.000527852	0.002870	0.000916862	0.006263	0.000785243	10.529427	0.021742104	0.041007856	0.013988117	15173.6967	26.254181	158469.0978	2372.835125	10.443733	0.157420	189.8	2.8	2.870E+00
e 3.7%	4.6829E-06	2.0778	5.24967E-06	1.3328	6.04667E-06	1.1841	1.35177E-05	1.8850	2.08303E-04	0.5963	2007	60.88	79.12	99.41	0.000205	2.82188E-05	0.000234	4.25896E-05	0.010996	9.91398E-05	10.312983	0.008129679	0.003598887	0.00064136	277711.7646	203.689454	2841640.561	2458.019688	10.232338	0.011694	186.1	0.9	9.355E-01
f 3.9%	5.2305E-06	2.2193	6.29201E-06	2.5430	5.49655E-05	0.7091	4.46247E-03	0.0729	4.81193E-02	0.0285	2007	20.51	99.63	98.94	0.000411	7.25298E-05	0.000355	0.000146359	0.010441	0.00248094	11.423937	0.012171172	0.005448706	0.002248082	93662.47725	94.489904	1055049.269	2037.849626	11.276414	1.0	1.083E+00		
g 4.3%	5.84139E-06	2.4465	6.55897E-06	2.8215	5.68895E-06	1.2447	1.22841E-05	0.9076	2.04436E-04	0.4027	2007	3.33	18.25	99.44	0.000207	0.000527852	0.002870	0.000916862	0.006263	0.000785243	10.529427	0.021742104	0.041007856	0.013988117	15173.6967	26.254181	158469.0978	2372.835125	10.443733	0.157420	189.8	2.8	2.870E+00
h 4.3%	6.46772E-06	2.4465	6.55897E-06	2.5182	2.13395E-05	1.7091	1.5114E-03	0.0999	1.73275E-02	0.0332	2007	0.37	100.00	95.84	0.001816	0.004269434	0.008434	0.000676594	0.001843	0.006468434	12.701298	0.177219422	0.129545394	0.103950522	1686.251631	22.544736	20484.19785	2129.491292	12.147771	1.273256	218.9	21.6	2.163E+01
i 5.7%	7.20540E-06	2.4465	6.55897E-06	2.8215	5.68895E-06	1.2447	1.22841E-05	0.9076	2.04436E-04	0.4027	2007	100.00	98.96418369	0.000386655	4.41875E-05	0.000657	7.59088E-05	0.010930	9.81007E-05	10.517081	0.000690157	0.010098	0.001165964	4.56195E+05	240.584963	4736344.737	6056.247550	10.382279	0.014364	188.7	0.9	9.585E-01	

