

Data Repository: Ar-Ar and K-Ar age data and Ar-Ar step-heating plotsTABLE A-1. $^{40}\text{Ar}/^{39}\text{Ar}$ AGE DATA FROM THE ROBINSON DISTRICT, NEVADA

Sample, Mineral	Description	Latitude ($^{\circ}\text{N}$), Longitude ($^{\circ}\text{W}$)	Weighted mean plateau age, WMPA (Ma)	Total fusion age, TFA (Ma)*
<u>Ar-Ar step-heating extractions</u>				
Ar2,	Rhyolite of White Hill:	39°15'30" N, 115°00'58" W	37.60 ± 0.04	37.60 ± 0.04
Sanidine	Shallow intrusion of crystal- rich, weakly flow banded rhyolite			
Ar3,	Rhyolite of White Hill: flow	39°15'15" N, 115°00'50" W	37.50 ± 0.05	37.53 ± 0.05
Sanidine	banded and devitrified rhyolite			
Ar4,	Rhyolite of White Hill: Flow	39°15'40" N, 114°59'15" W	37.50 ± 0.05	37.53 ± 0.05
Sanidine	banded rhyolite vitrophyre			
Ar5†,	Rhyolite of White Hill:	39°14'53" N, 115°01'35" W	37.42 ± 0.05	37.41 ± 0.05
Sanidine	Devitrified, flow banded rhyolite lavas			
Ar6,	Crystal-poor rhyolite tuff of	39°14'23" N, 115°01'26" W	28.39 ± 0.04	28.43 ± 0.04
Sanidine	uncertain correlation			
Ar7†,	Rhyolite of White Hill:	39°12'28" N, 114°54'13" W	37.56 ± 0.05	37.57 ± 0.05
Sanidine	Unwelded lapilli, lithic rhyolite tuff, possibly reworked			
Ar9,	Rhyolite of Garnet Hill:	39°16'26" N, 114°56'59" W	36.67 ± 0.04	36.68 ± 0.04
Sanidine	Unaltered, crystal-rich, biotite-bearing silicic plug intruding vapor-phase altered flow dome complex			

<u>Ar-Ar laser extractions</u>		<u>Age (Ma)</u> [§]	<u>Number of grains fused</u>
Ar5,	Rhyolite of White Hill:	39°14'53" N, 115°01'35" W	37.45 ± 0.05 3
Sanidine	Devitrified, flow banded rhyolite lavas		
Ar8,	Rhyolite of Garnet Hill:	39°16'51" N, 114°58'28" W	37.08 ± 0.06 3
Sanidine	Reworked, pumiceous deposit	37.23 ± 0.04 37.56 ± 0.08	6 1

*Preferred ages are integrated total-gas ages (total fusion ages) of 12- to 14-step incremental step-heating experiments $\pm 2\sigma$ errors; all reported errors include uncertainties in J.

†Samples did not yield statistical plateaus or were petrographically suspect. Sample Ar5 petrographically looked somewhat reworked, but 3 single-grain ages of 37.43, 37.44, and 37.50 are within analytical error of the bulk sample data. Sample Ar7 initially gave a disturbed spectrum that indicated contamination with Cretaceous K-feldspar, but a three-grain split gave the reliable date reported here.

§ The single-crystal laser-fusion ages are means of individual analyses $\pm 2\sigma$ standard error of the mean.

TABLE A-2. K-Ar ANALYTICAL DATA, ROBINSON DISTRICT, NEVADA[†]

Sample,	Description	Latitude (°N),	Average	Average	Apparent Age	Recalculated
Mineral		Longitude (°W)	K	$^{40}\text{Ar}^*$	(Ma) ††	Apparent Age
			(percent) §	(ppm) #		(Ma) §§
Lot	Rhyolite of Garnet	39°16'26" N,	7.186	0.01883	36.4 ± 1.4	37.3 ± 1.4
1127,	Hill: Unaltered,	114°56'59" W				
Biotite	crystal-rich, biotite-bearing silicic plug intruding vapor-phase altered flow dome complex					

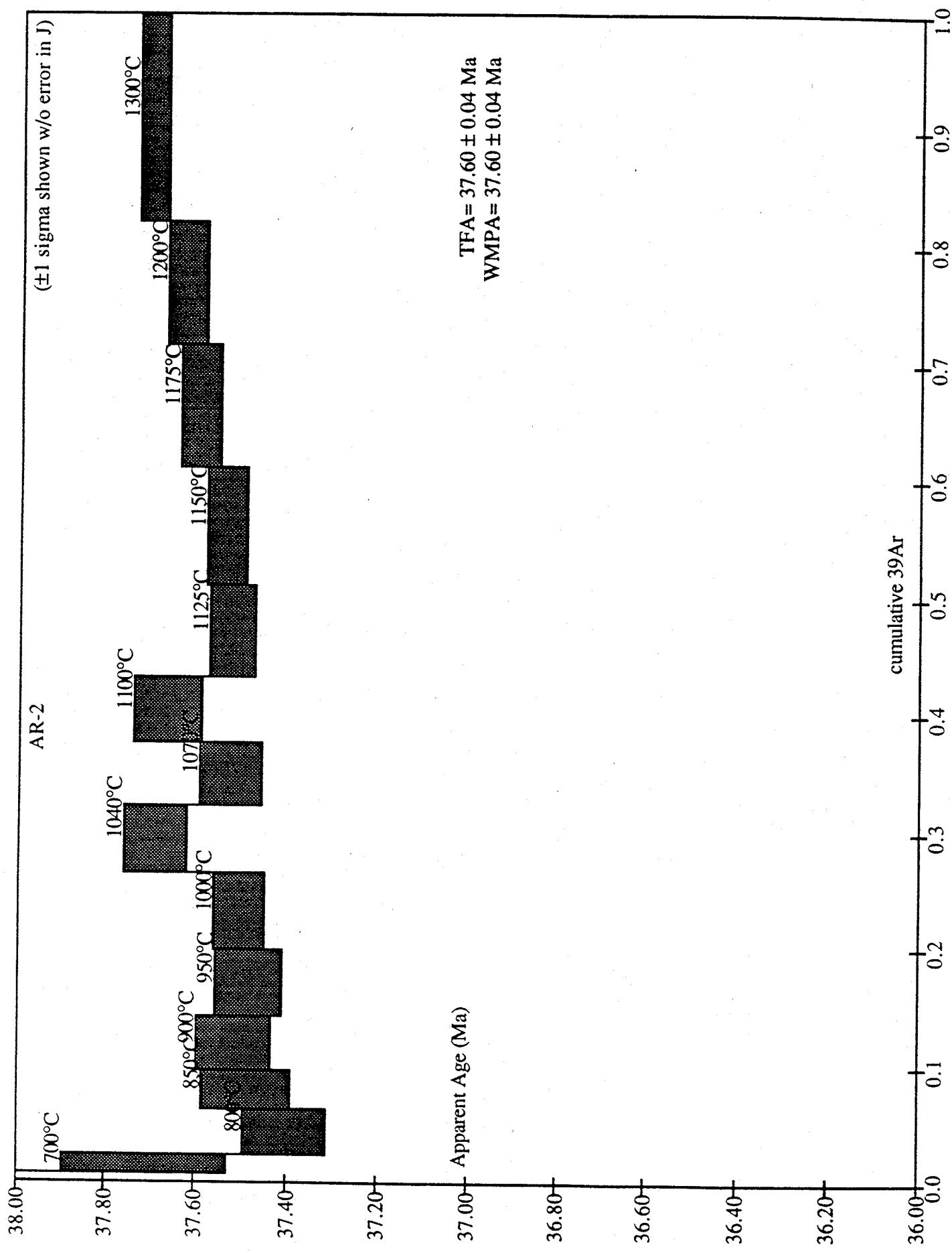
[†]Sample collected by William R. Wilson of Kennecott Copper Corporation, Ruth, Nevada, at same location as Ar9 (Fig. 1); biotite concentrate made by Exploration Services Department of Kennecott Exploration, Inc. and shipped by John E. Welsh to Geochron Laboratories, Inc., 24 Blackstone Street, Cambridge, Massachusetts, for analysis in 1971.

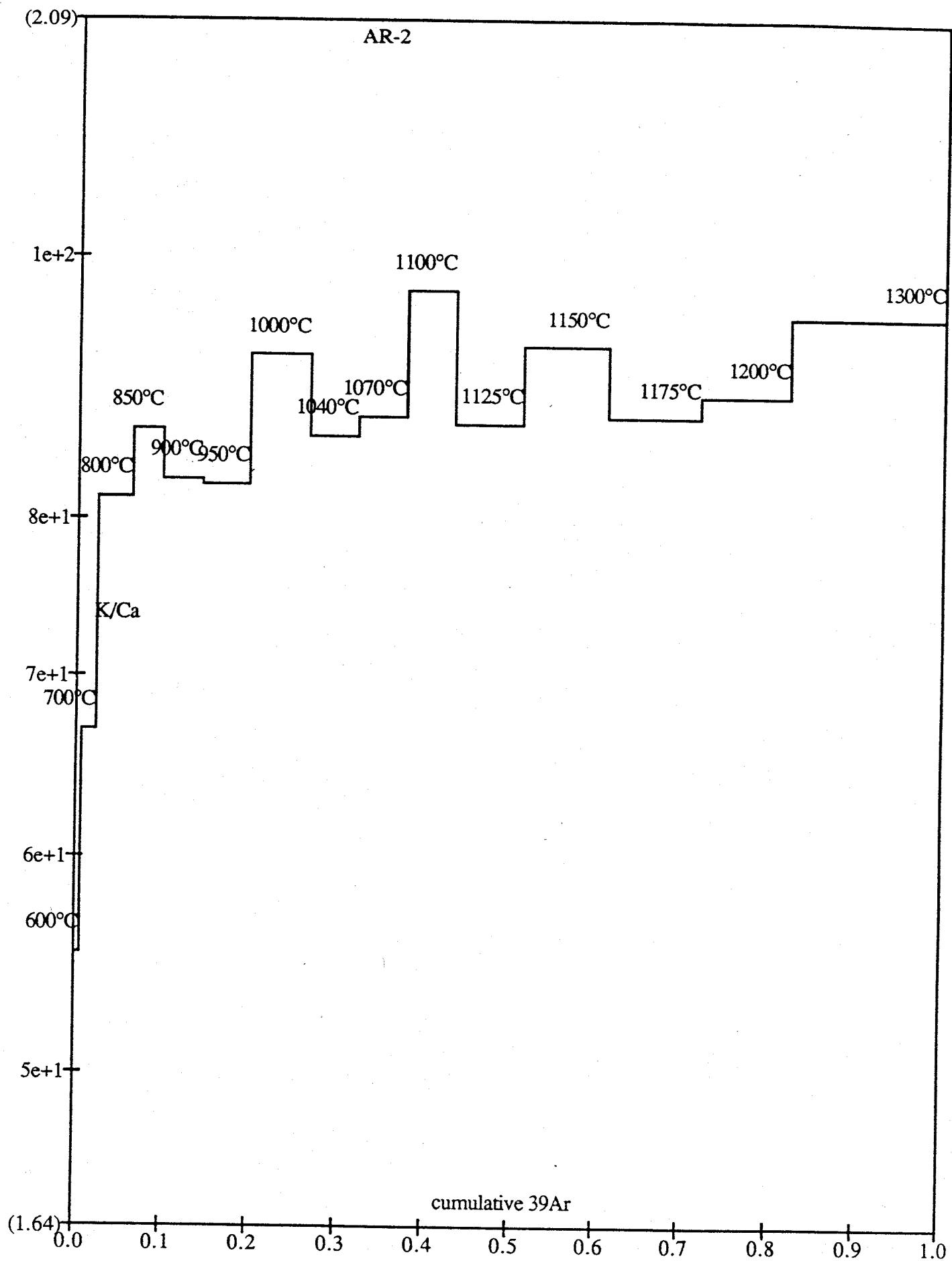
§Average of two analyses.

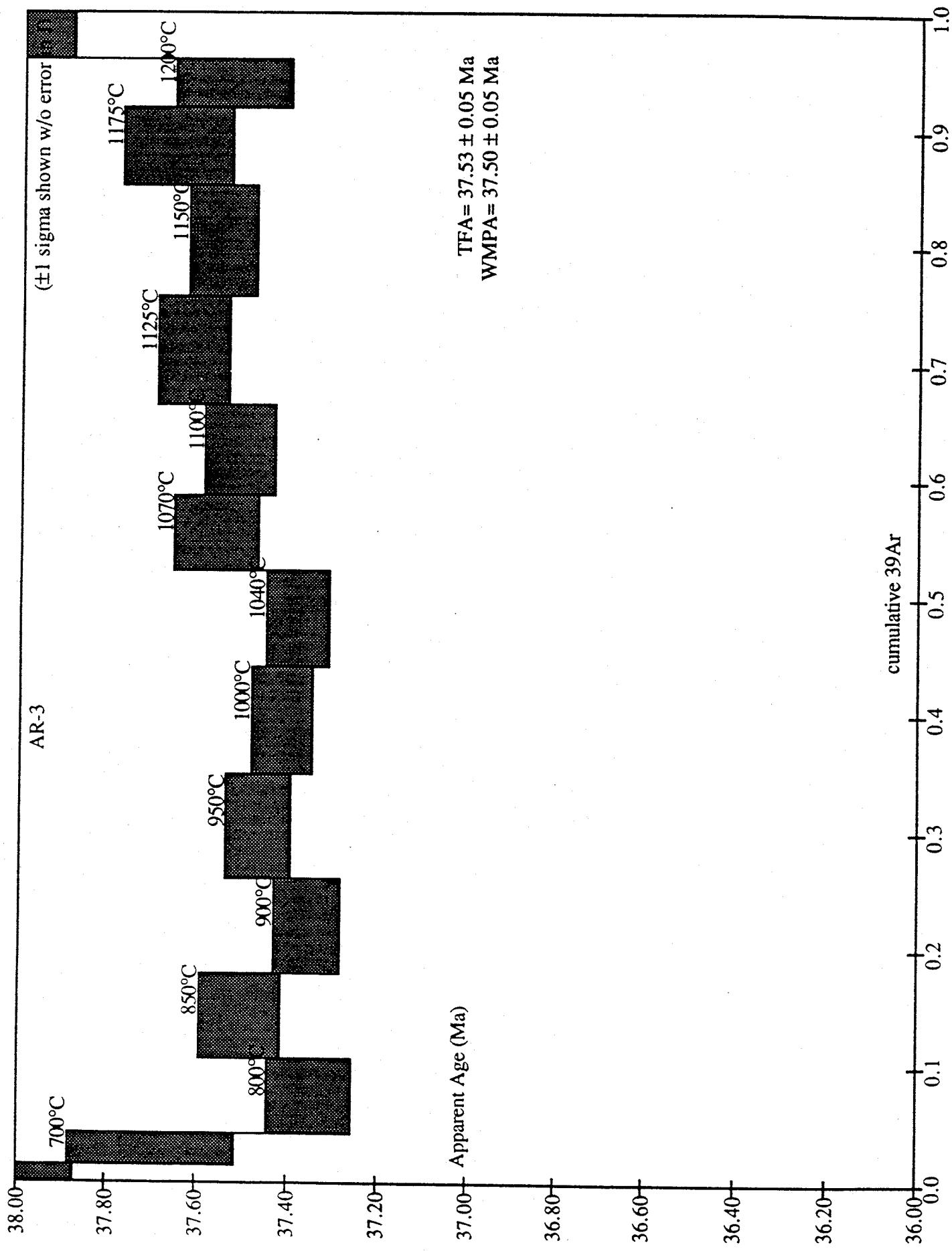
#Average of two analyses; $^{40}\text{Ar}^*$ refers to radiogenic ^{40}Ar .

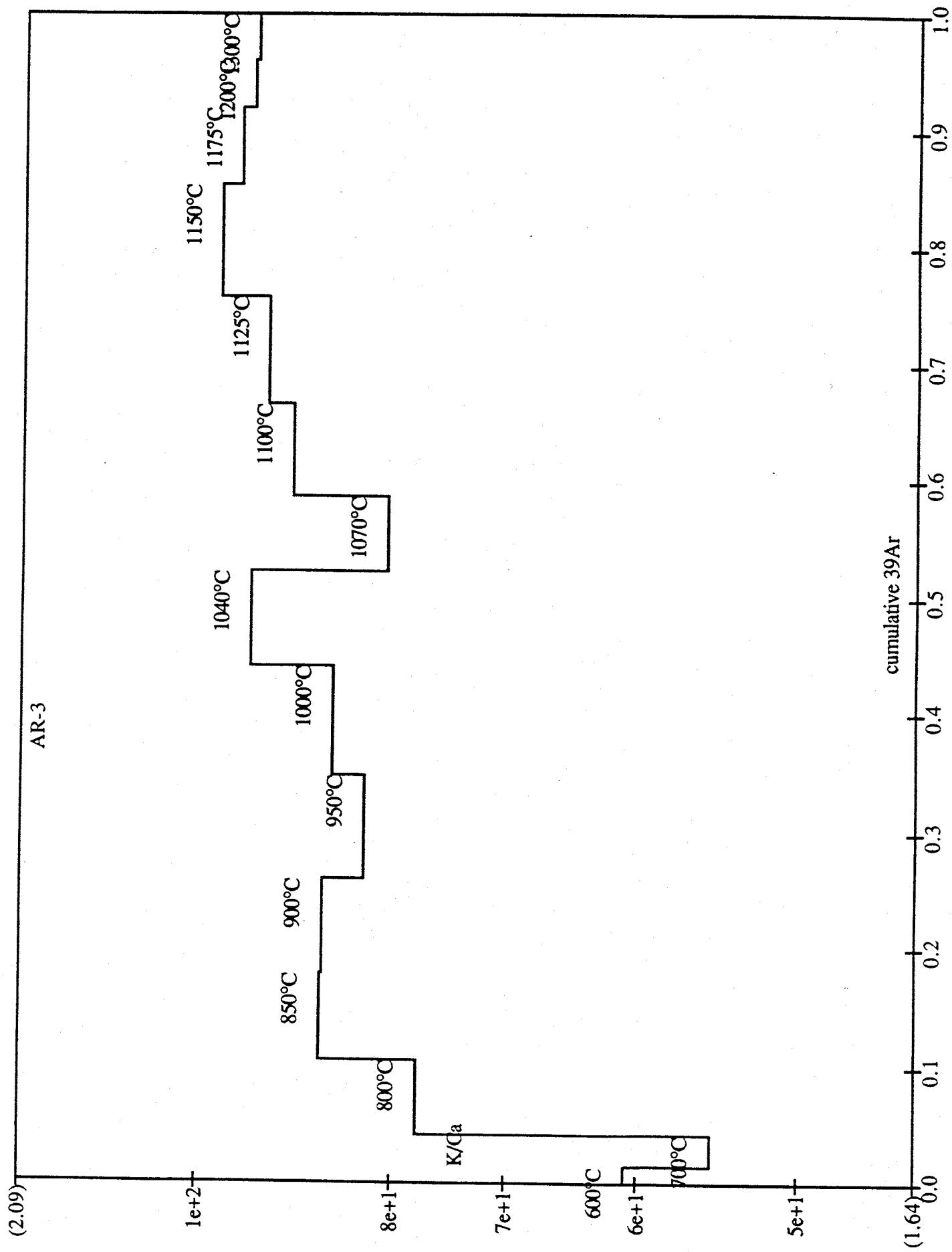
††Constants used: $\lambda_B = 4.72 \times 10^{-10}/\text{yr}$; $\lambda_e = 0.585 \times 10^{-10}/\text{yr}$; $^{40}\text{K}/\text{K} = 1.22 \times 10^{-4} \text{ g/g}$.

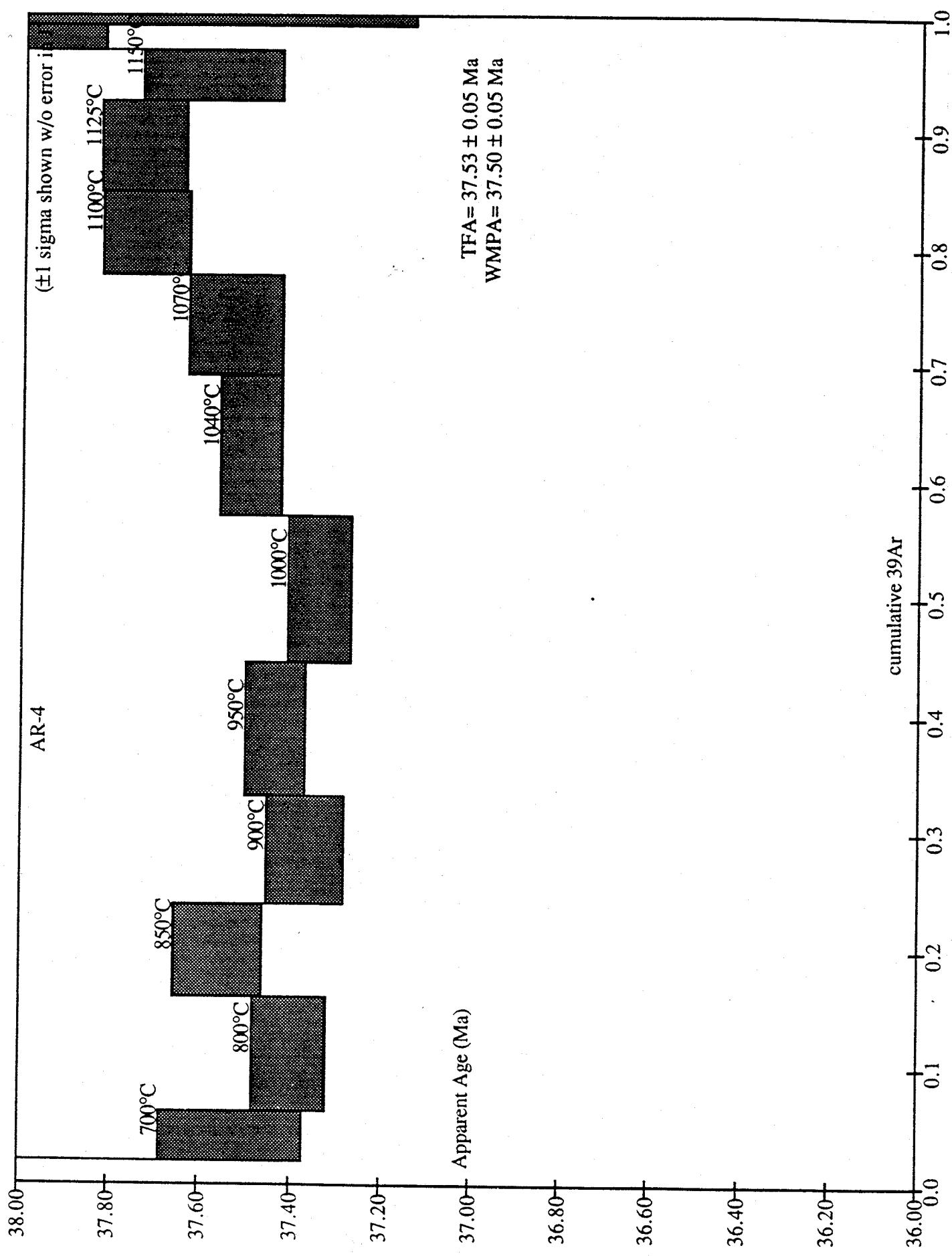
§§Ages using new decay constants, from the critical tables of Dalrymple (1979).

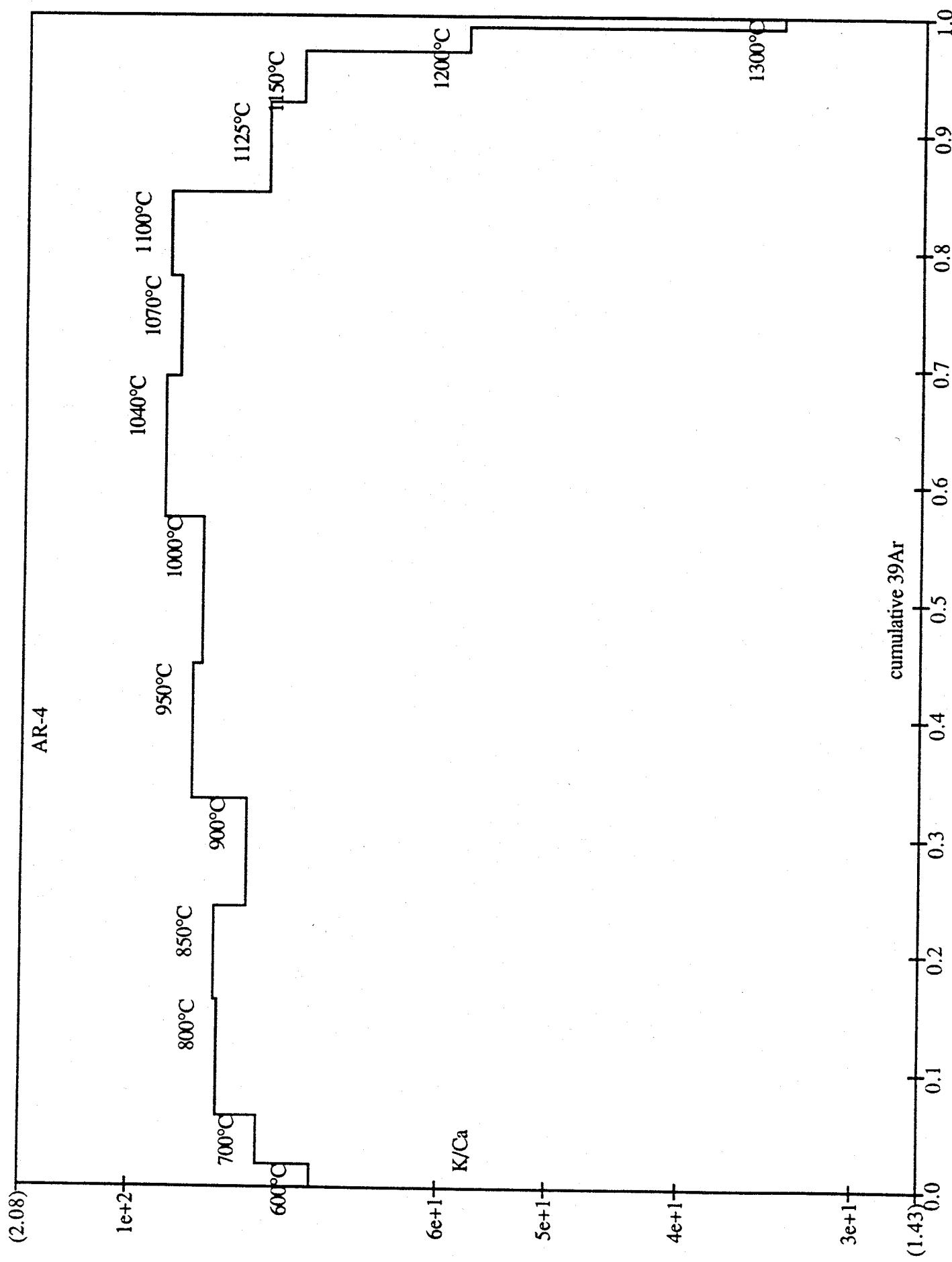


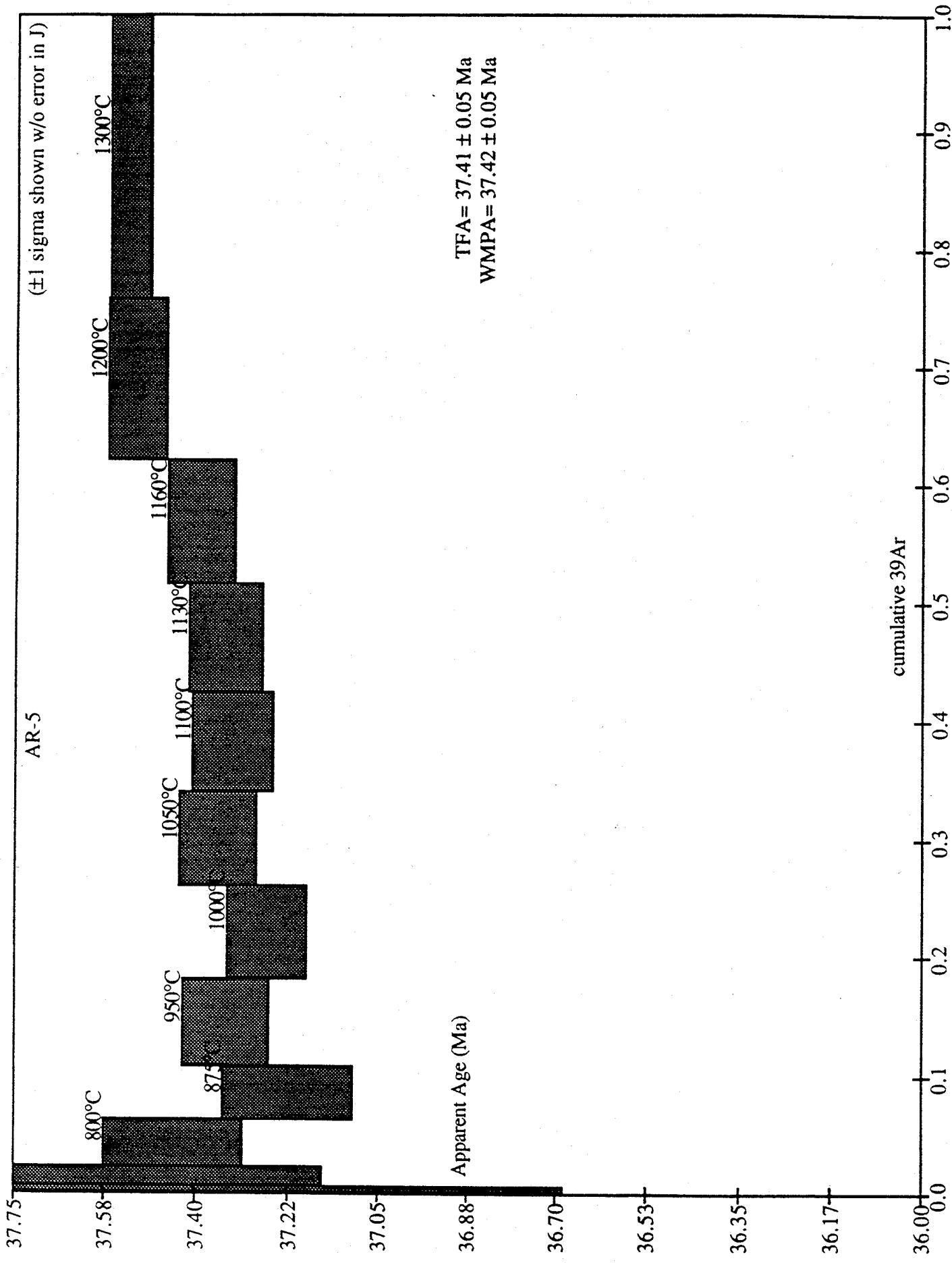


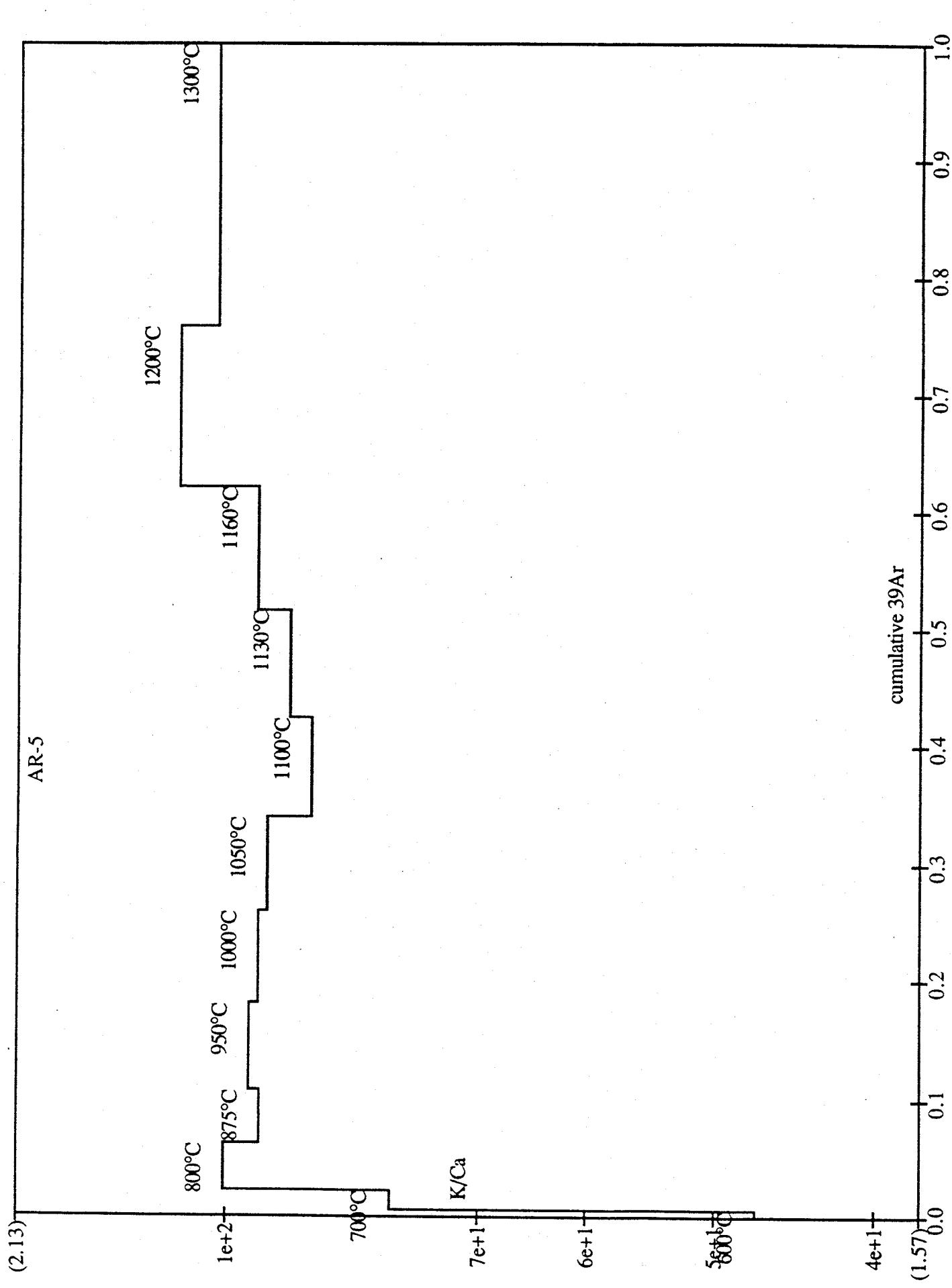


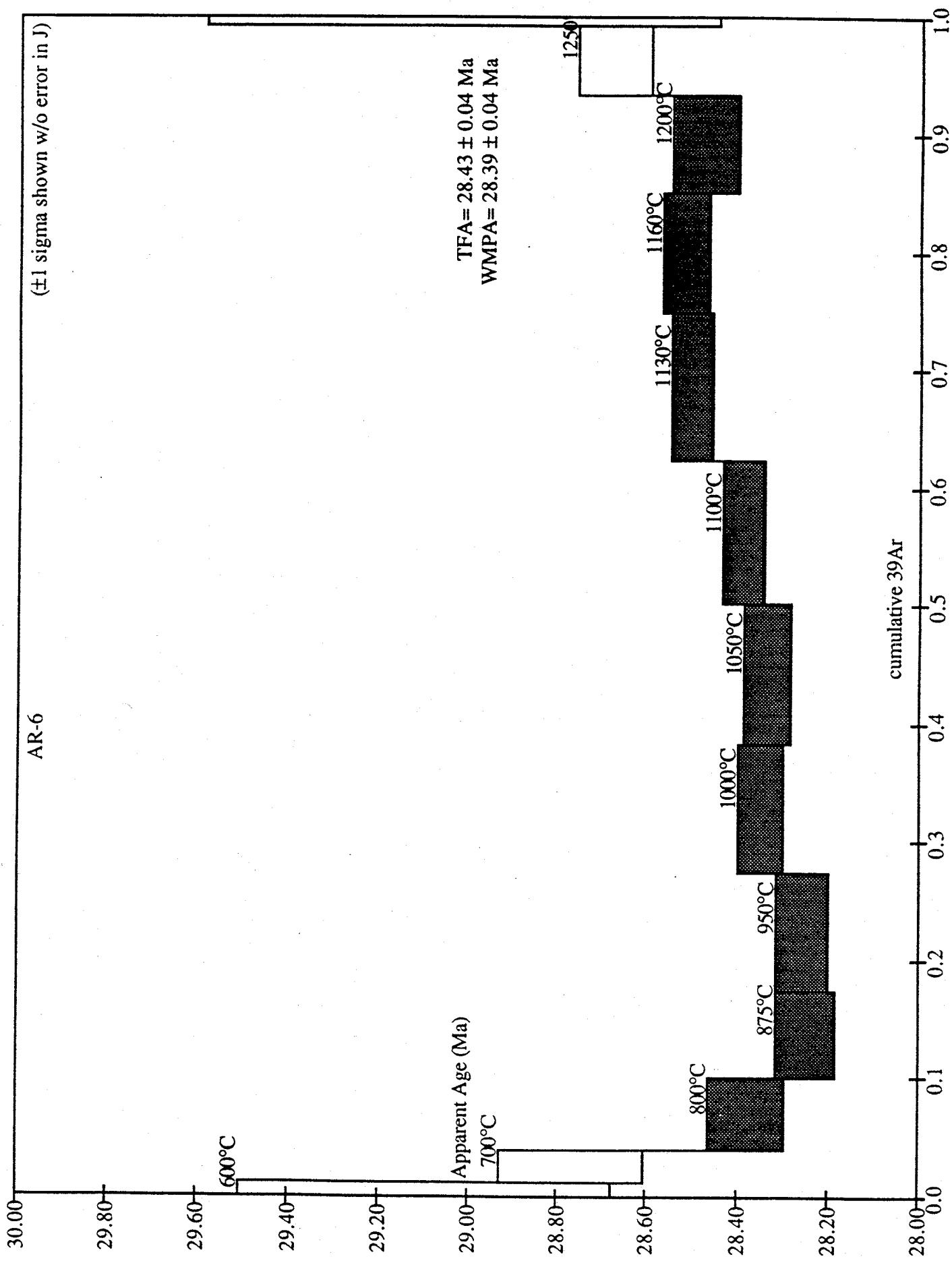


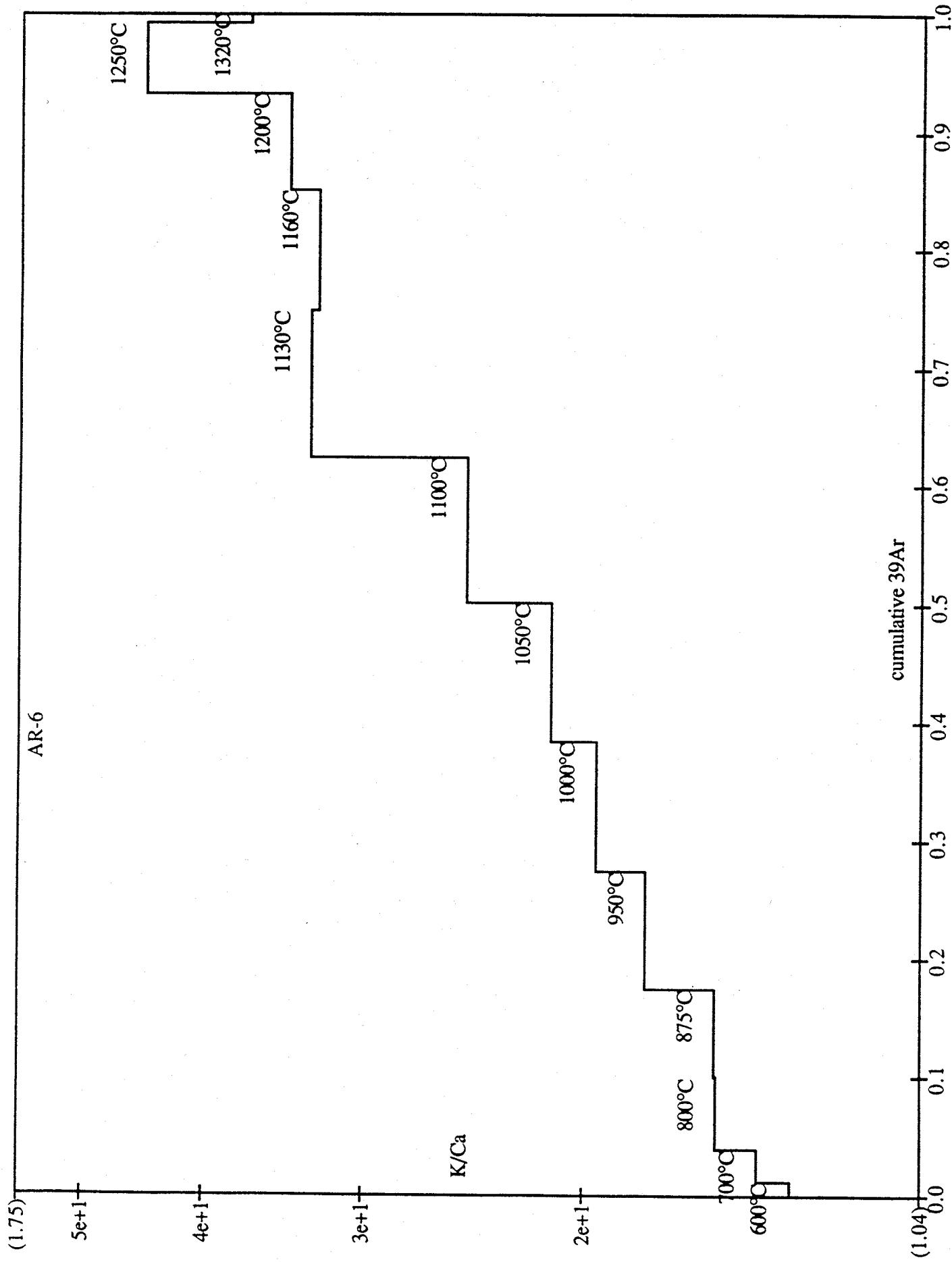


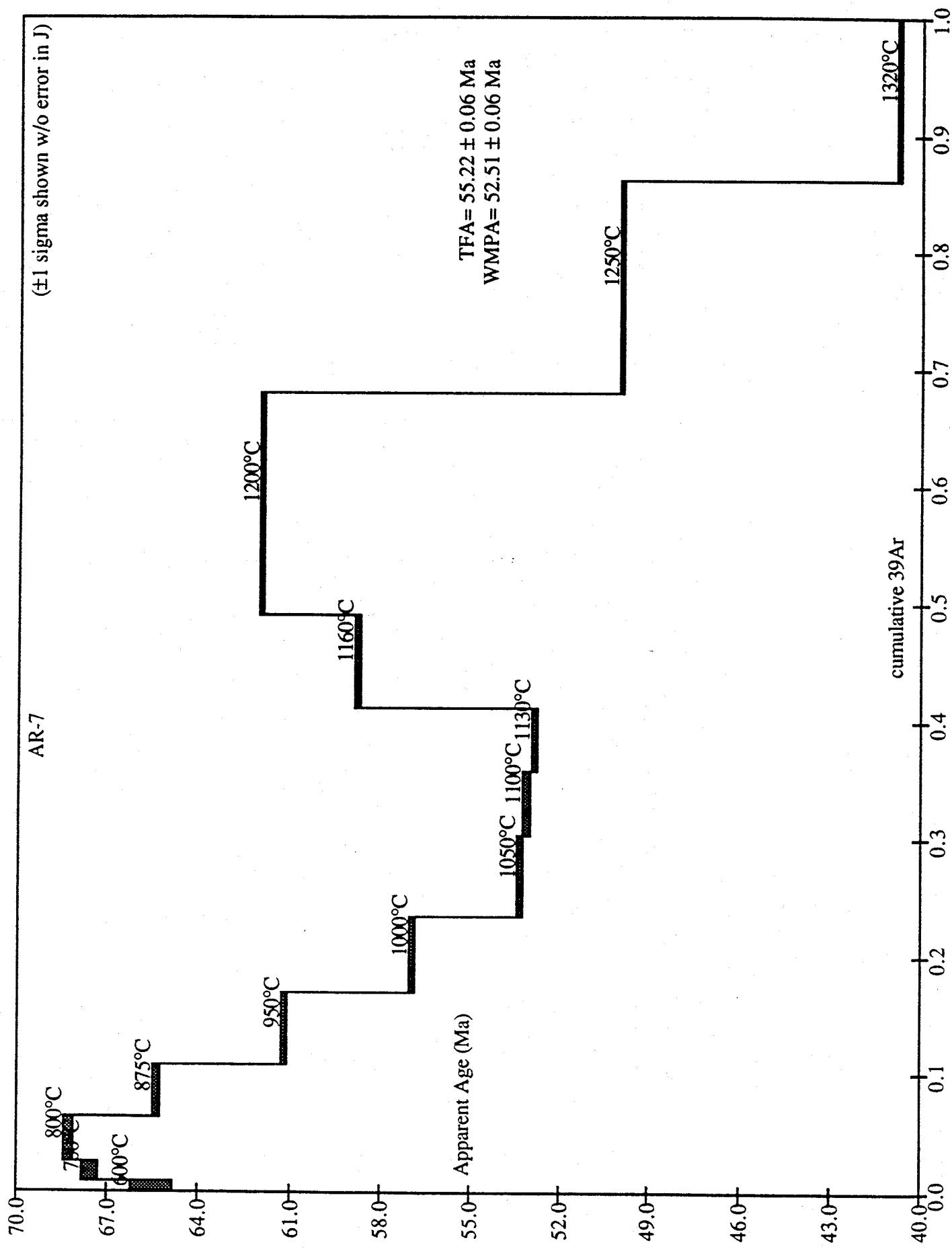


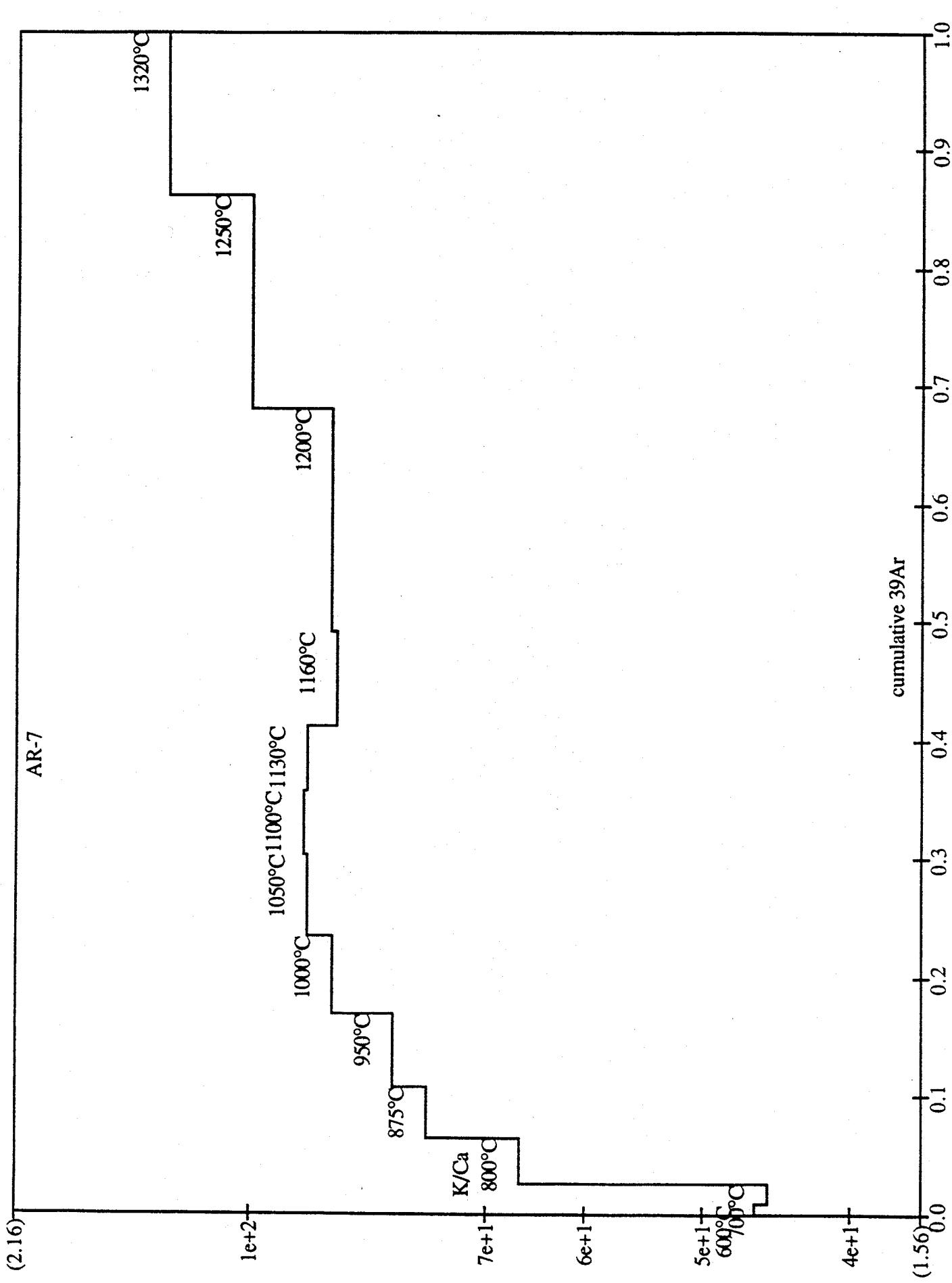


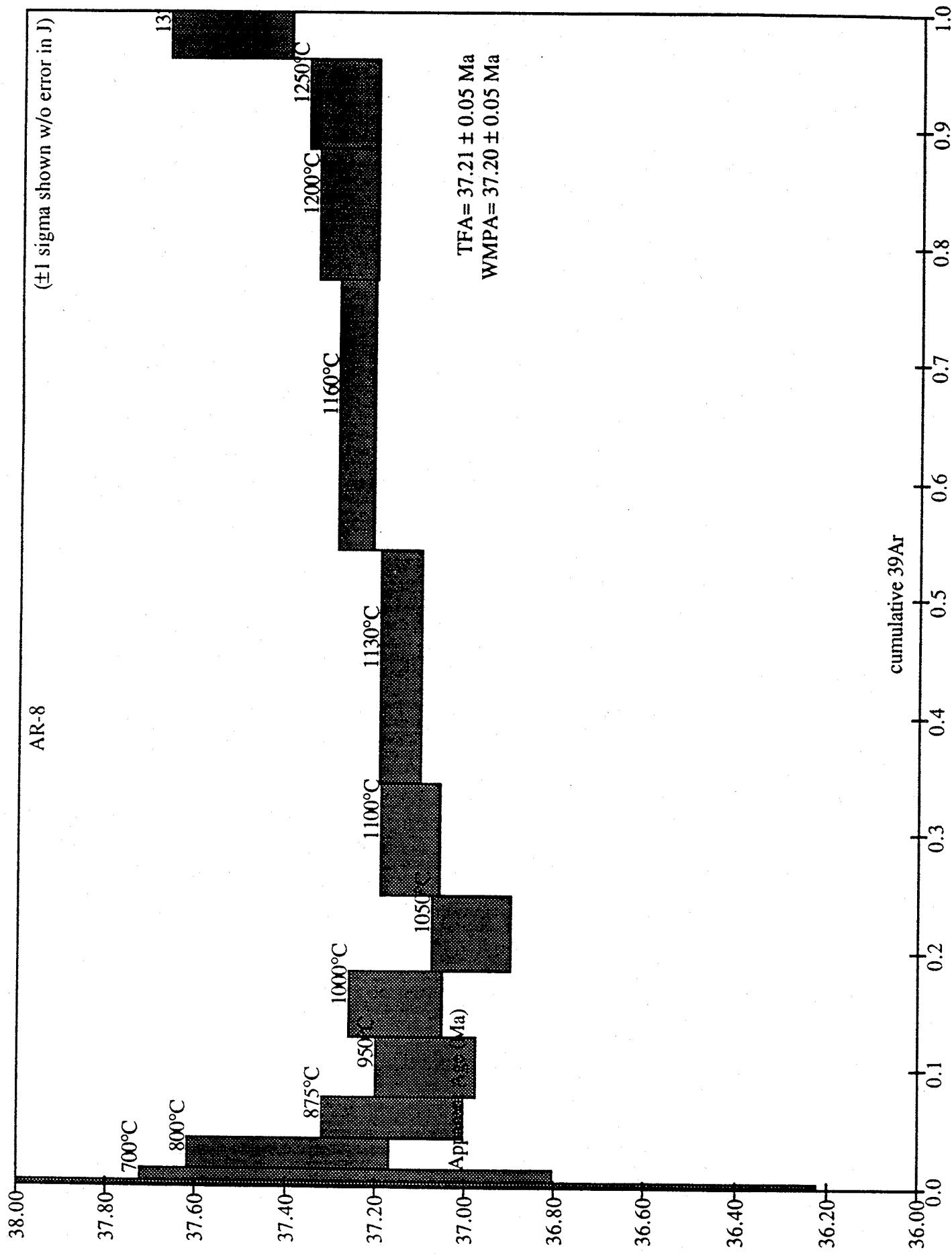


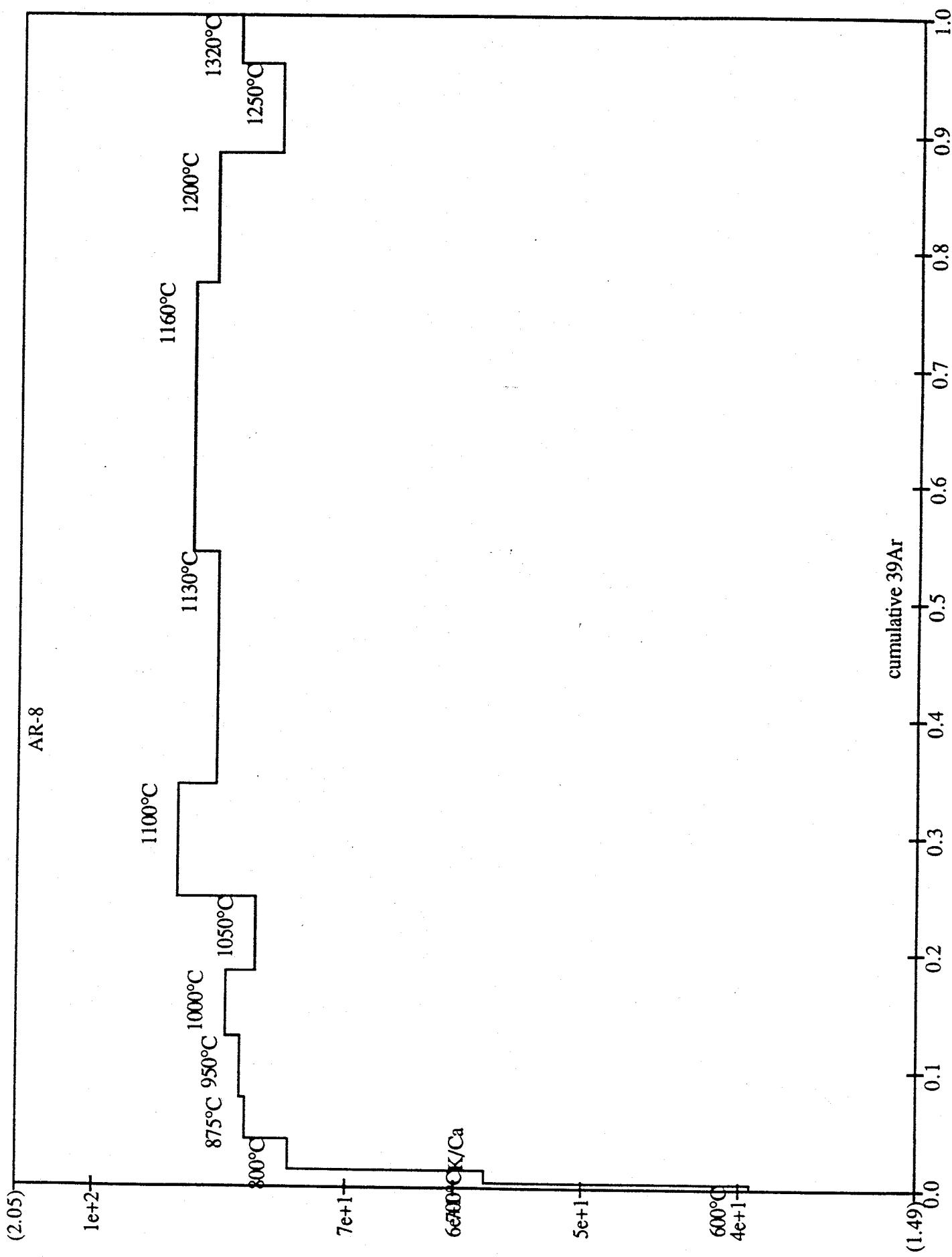


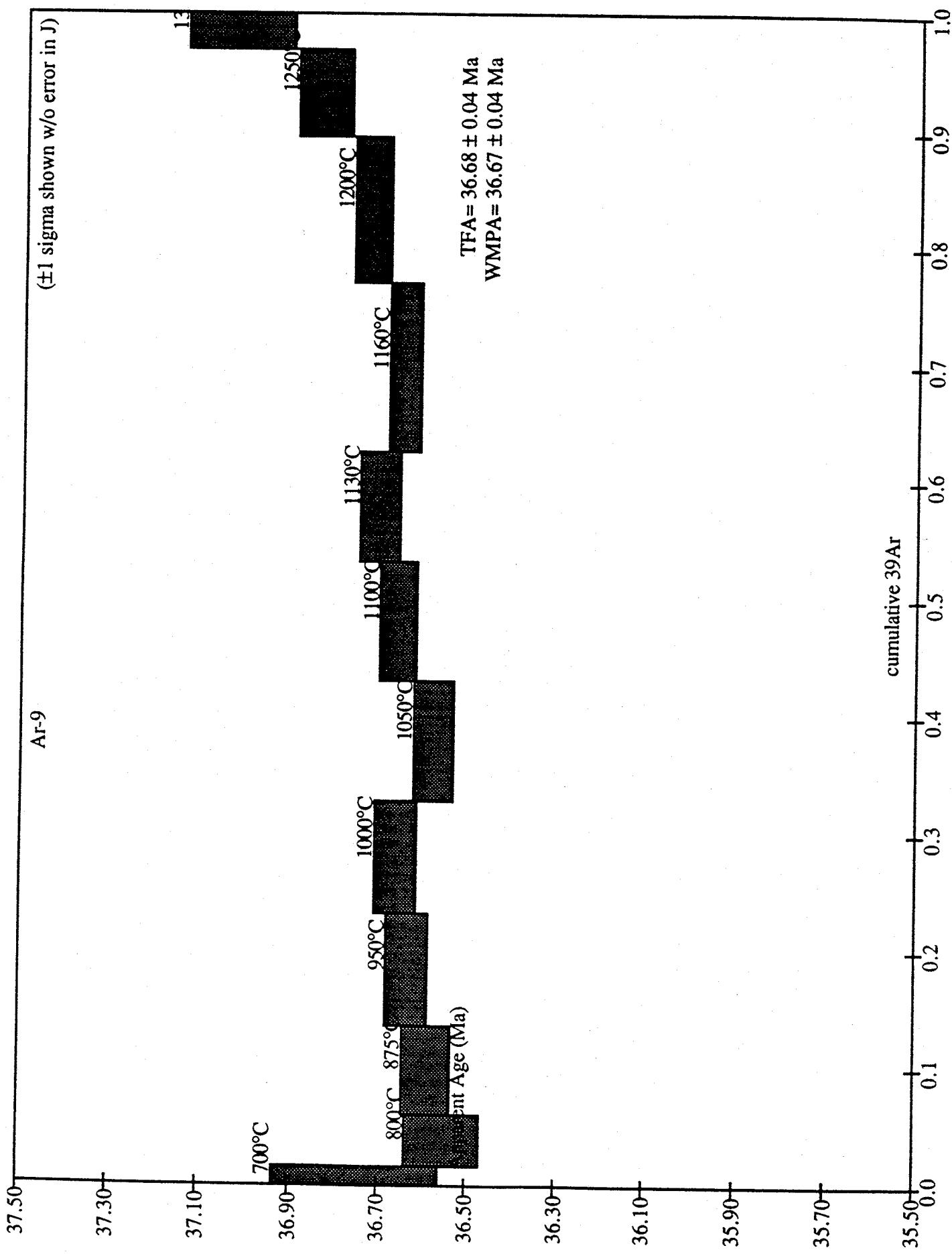












(2.17) Ar-9

