

THE RARE EARTH ELEMENT

QUESTION 1 WORK

REE	AverageDDM(ppm)	D in			C ^I /C _o MELT I 5%	C ^I /C _o MELT II 25%
		D in Olivine60% for	Orthopyroxene40%	Bulk D		
La	0.192	0.0000008	0.0056	0.0022	19.1834	3.9733
Ce	0.55	0.000019	0.0058	0.0023	19.1516	3.9722
Pr	0.107	0.000049	0.006	0.0024	19.1176	3.9711
Nd	0.581	0.00001	0.007	0.0028	18.9877	3.9666
Sm	0.239	0.000445	0.0085	0.0037	18.6973	3.9565
Eu	0.096	0.00001	0.0078	0.0031	18.8787	3.9628
Gd	0.358	0.00001	0.00001	0.0000	19.9962	3.9999
Tb	0.07	0.00342	0.011	0.0065	17.8160	3.9240
Dy	0.505	0.00001	0.015	0.0060	17.9515	3.9292
Ho	0.115	0.00927	0.019	0.0132	15.9990	3.8481
Er	0.348	0.00001	0.021	0.0084	17.2456	3.9016
Tm	0	0.00001	0.00001	0.0000	19.9962	3.9999
Yb	0.365	0.0366	0.032	0.0348	12.0450	3.6223
Lu	0.058	0.00001	0.042	0.0168	15.1594	3.8080

Orgueil Chondritic	Melt I=5% Cl	Melt II=25%Cl	C ^I /Orgueil Chondritic ratio	
0.2360	3.6832	0.7629	15.6068	3.2325
0.6190	10.5334	2.1847	17.0168	3.5294
0.0900	2.0456	0.4249	22.7287	4.7211
0.4630	11.0318	2.3046	23.8269	4.9775
0.1440	4.4687	0.9456	31.0323	6.5666
0.0547	1.8124	0.3804	33.1327	6.9549
0.1990	7.1586	1.4320	35.9731	7.1958
0.0353	1.2471	0.2747	35.3291	7.7814
0.2460	9.0655	1.9842	36.8516	8.0660
0.0552	1.8399	0.4425	33.3313	8.0168
0.1620	6.0015	1.3578	37.0462	8.3812
0.0220	0.0000	0.0000	0.0000	0.0000
0.1660	4.3964	1.3221	26.4845	7.9646
0.0245	0.8792	0.2209	35.8875	9.0149

CONC LIQ/OCR Vs REE

