Anton Probe Observations

Petrography

Type 4 Shock facies: ol. undulatory feld too fine (b or c)

large metal-troilite glob in middle of section

lots of twinned pyrox

chondrule glass - fine devitrified, needles radiating

met | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 (15) 9%

troil | 1 1 1 1 1 1 1 1 1 (10) 6%

mon | 6 6 2 6 4 16 6 8 3, 4 5 5 5 3 7 7 7 5 2 6 7 9 8

(138)

163 | 15.00

Random Olivines — Anton

7/2/84

	#	Fo	Fa	Total	Z	X
1	11	80.7	19.3	99.49	1.003	1.993
2	12	81.5	18.5	99.31	1.000	2.000
3	13	81.0	19.0	100.12	1.000	2.000
4	18	81.3	18.7	99.69	1.002	1.997
5	19	81.4	18.6	99.82	0.995	2.010
6	20	81.5	18.5	98.88	0.997	2.007
7	21	81.6	18.4	100.77	1.003	1.994
8	22	81.3	18.7	99.04	1.005	1.991
9	23	81.9	18.1	100.45	1.000	1.999
10	26	81.4	18.6	99.83	0.993	2.015
11	29	80.8	19.2	100.20	0.985	2.031
12	30	81.6	18.4	99.85	0.997	2.005
13	31	80.8	19.2	99.44	0.999	2.001
14	34	81.3	18.7	101.69	0.999	2.002
15	38	81.5	18.5	99.57	1.005	1.990
16	41	81.6	18.4	99.79	0.992	2.016
17	42	81.2	18.8	101.52	0.994	2.012
18	44	81.8	18.2	102.30	0.994	2.012
19	45	81.0	19.0	100.74	0.993	2.014
20	47	81.4	18.6	101.86	1.004	1.992
21	49	81.5	18.5	99.03	1.004	1.991
22	53	81.2	18.8	101.28	1.001	1.998

N = 22 M = 18.7

σ = 0.32 PMD = 1.22

Random Pyroxenes — Anton — 7/2/84

	#	En	Fs	Wo	Total	Z	X	
1	10	83.0	16.2	0.8	99.21	2.015	1.971	
2	14	82.5	16.5	1.0	98.80	2.005	1.989	
3	15	82.4	16.9	0.7	99.94	1.995	2.009	
4	16	82.5	16.5	1.0	99.61	2.006	1.988	
5	17	83.0	16.2	0.8	99.78	1.998	2.004	
6	24	81.4	17.6	1.0	97.72	2.004	1.992	
7	25	82.9	16.2	0.9	98.96	2.006	1.987	
8	27	81.9	17.0	1.1	99.14	1.993	2.013	
9	28	82.3	16.6	1.1	99.15	2.007	1.985	
10	32	81.1	17.0	2.0	97.55	2.011	1.979	
11	33	82.5	16.6	1.0	99.15	2.005	1.991	
12	36	81.9	17.1	1.1	101.37	1.999	2.001	
13	37	82.9	16.1	1.0	99.32	2.006	1.989	
14	39	82.3	17.0	0.6	101.45	2.001	1.999	
15	40	82.4	16.6	1.0	102.11	1.997	2.006	
16	43	81.6	17.2	1.2	100.13	1.992	2.016	
17	46	81.1	16.7	2.3	98.90	1.997	2.005	
18	48	82.4	16.6	1.0	99.67	2.006	1.988	
19	50	83.0	16.1	0.9	98.35	2.008	1.983	
—	51	75.8	14.6	9.5	98.05	2.011	1.979	Augitic
20	52	82.4	16.8	0.8	101.06	2.007	1.987	

N = 20 M = 16.7

σ = 0.41 PMD = 2.05