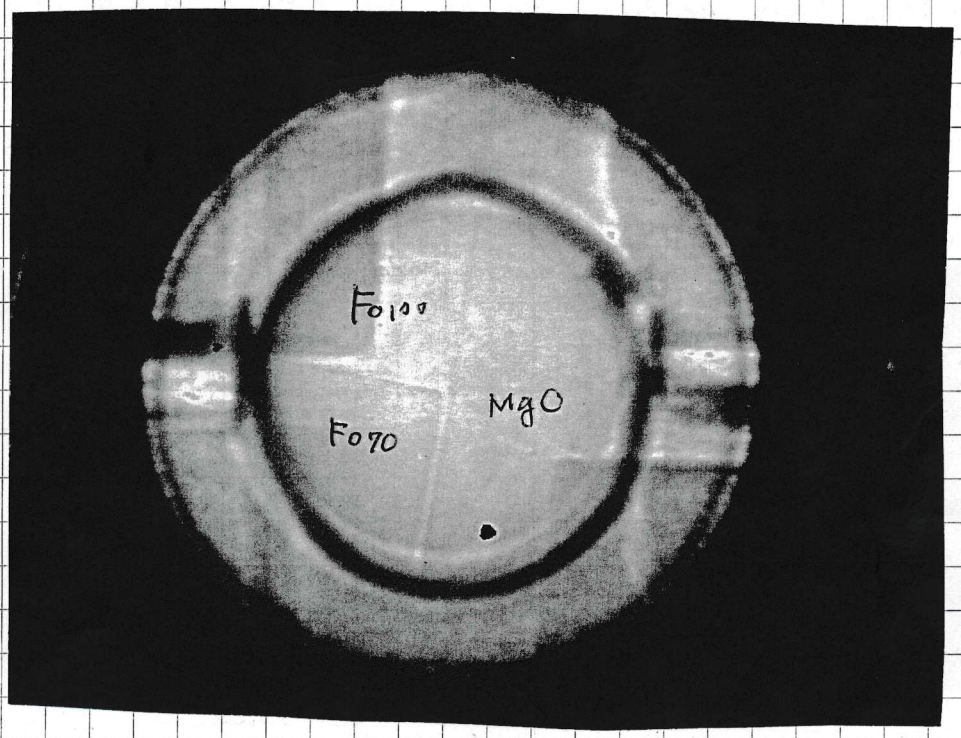
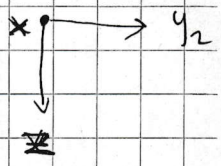
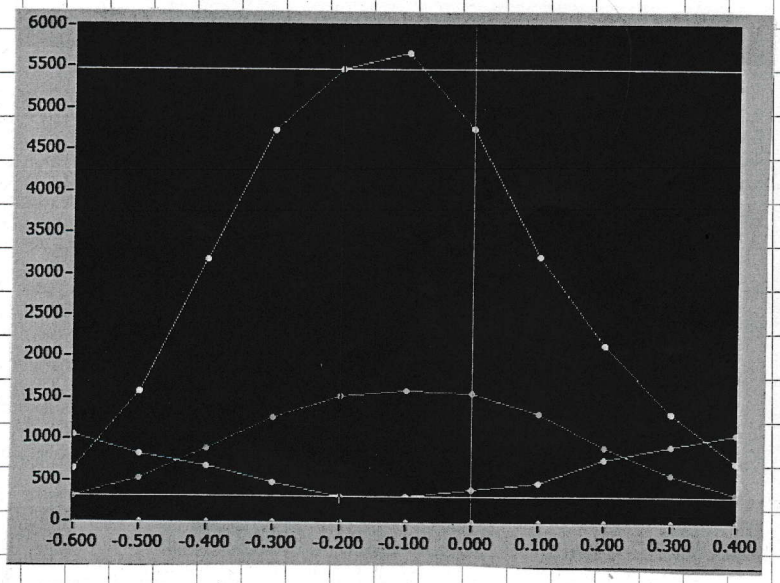
M2268

12:14 put a cell assembly, thinner B-epoxy rods in pyrophyllite gaskets





12:25 X scan x = −0.1



12:30 M2268001 MgO 0 ton, R.T. 150 sec, K = 0-7-2°

x = −0.1, y = −1.6, z = −4.6

D.T = 3.10 %

P = 0.03449 ± 0.03360 GPa ; a = 4.211200 ± 0.000029 Å

V = 74.682299 ± 0.015608 Å³ ; 2θ = 7.19848 deg.

V/V0 = 1.000000 ± 0.000209

R.S. 0.2 → 0.02

TC 0.4 0 0.3 -0.25

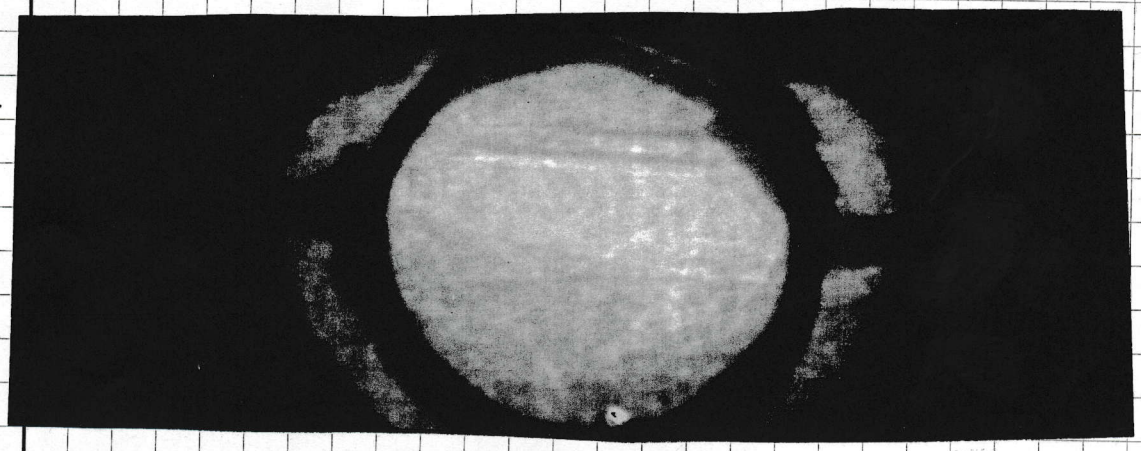
i.s 0

12:34 M2268002 lower Fo 70 0 ton, R.T. 100 sec. κ = 0-7.2°
x = -0.1, y = -1.1, z = -4.5

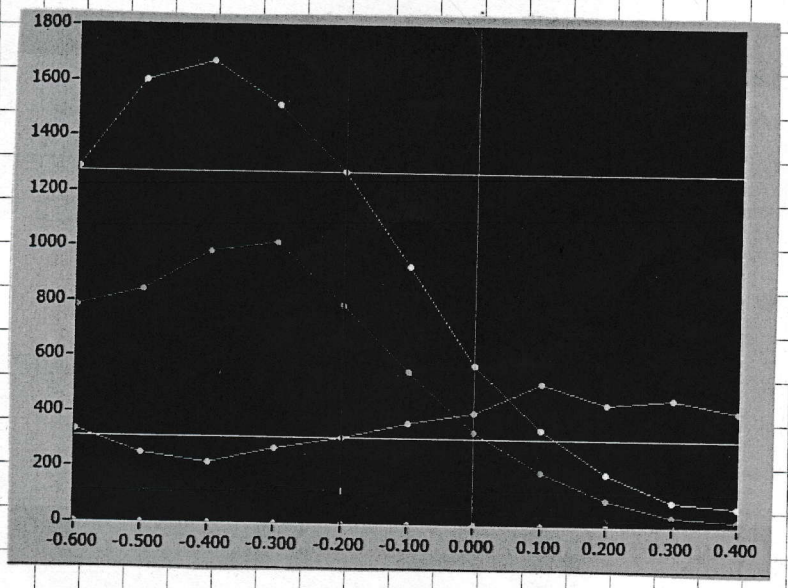
12:39 M2268003 upper Fo 100 0 ton, R.T. 100 sec κ = 0-7.2°
x = -0.1, y = -1.1, z = -4.85
D.T = 3.76 %

12:54 Compress to 50 ton

13:10 50 ton



13:13 X scan x = -0.4

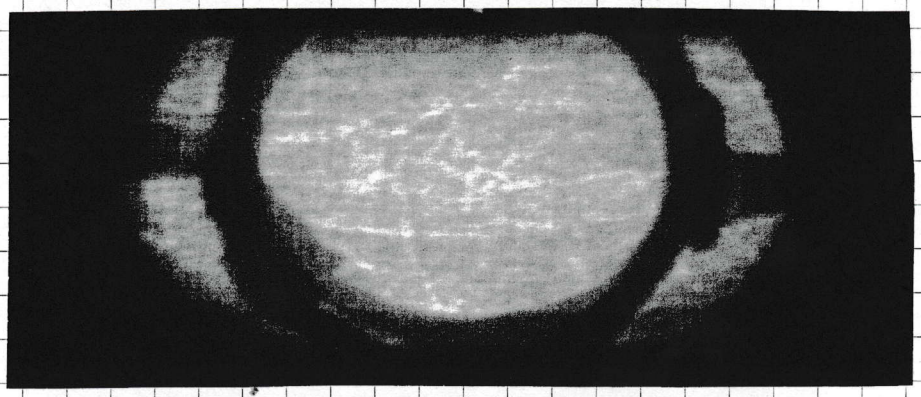


13:18 M2268004 MgO, 50 ton, R.T. 150 sec, κ = 0-7.2°
x = -0.4, y = -1.45, z = -2.97
D.T. = 5.58 %

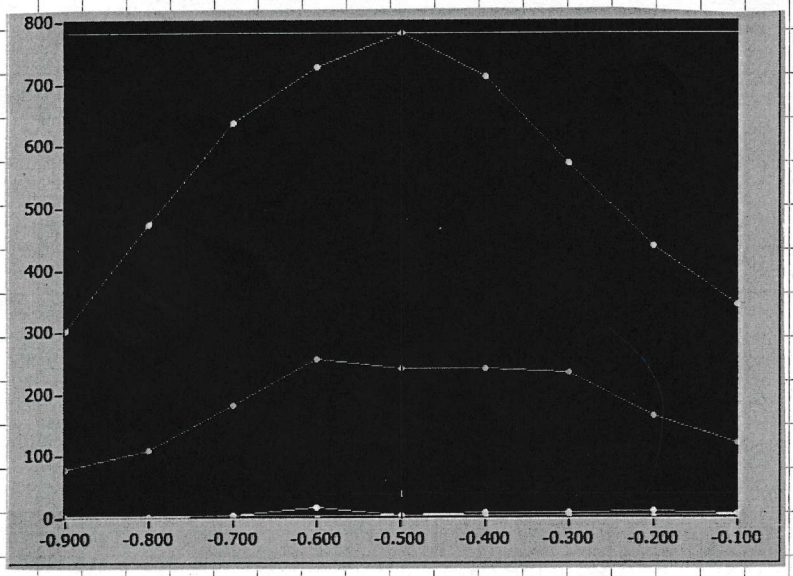
P = 5.87751 ± 0.03634 GPa | V/V0 = 0.960731 ± 0.000190
V = 72.197677 ± 0.014179 Å³ | a = 4.163971 ± 0.00027 Å

18:25 compress to 600 ton

16:24 At 6.0 MN



16:38 x-scan

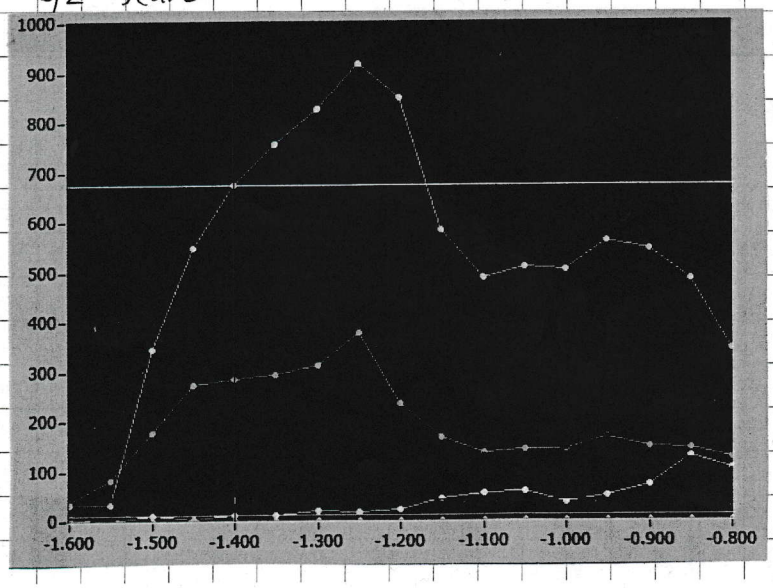


$x = 0.5$

MgO

y2 scan

16:50



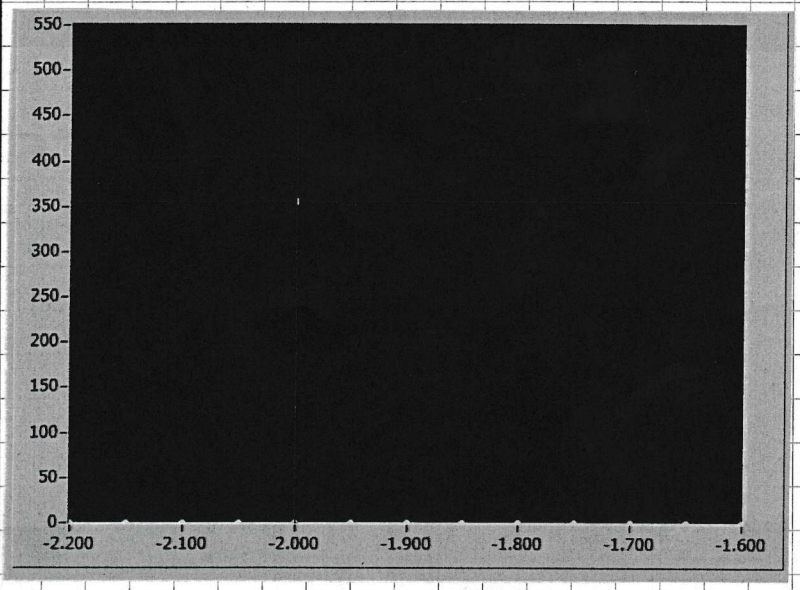
MgO $y_2 = -1.3$

Fo_{70} $y_2 =$ ~~-0.95~~ ~~-1.1~~ -1.0

Fo_{100}

17:00 Communication error with Stage Scan.vi – Solved

17:30 Z scan on olivine samples



$f_{o_{70}}$ $z = -1.80$

$f_{o_{100}}$ $z = -2.05$

MgO $z = -1.9$

17:31 (M2268005) MgO, 600 ton, RT, 100 sec $\chi = 0-7.2°$

$x = +0.5$ $y_2 = +1.3$ $z = -1.9$

D.T. = 3.6%

$P = 28.3342 \pm 0.08435$ $V/V_0 = 0.875585 \pm 0.00027$

$V = 65.390683 \pm 0.020198$

17:42 Heating to 1100 K

Time	Temp.	V_1	I_1	R_1	P_1	V_2	I_2	R_2	P_2	Strobe
17:43	26.59	0.13	0.00	68754	0.00	0.001	1.26	0.0012	0.00	8.869
17:59	8101.05	23.43	1.48	15.84	34.68	12.04	2.17	5.9	24.30	8.872
18:01	200.00	23.59	2.34	10.19	56.91	12.19	3.70	3.31	44.91	8.872
18:02	301.09	24.31	3.19	7.64	77.64	12.36	5.28	2.35	65.11	8.872
18:04	399.17	25.44	3.85	6.60	98.34	12.84	6.51	1.91	83.65	8.872
18:05	501.00	26.35	4.54	5.79	119.34	13.19	7.78	1.69	102.67	8.872
18:07	600.74	27.36	5.09	5.39	138.98	13.75	8.75	1.57	120.85	8.875
18:09	702.16	28.69	5.51	5.22	157.62	14.41	9.50	1.52	136.68	8.882
18:11	828.6	29.70	6.24	4.76	185.62	14.81	10.82	1.36	160.44	8.896

(M2268006) MgO 600 ton, 1100K 150 sec $\chi = 0-7.2$

$x = -0.5$ $y = +1.3$ $z = -1.9$ D.T. = 3.1%

shift (V/V0.4) $P = 23.2583 \pm 0.048$ $V/V_0 = 0.90904$

$V = 67.931 \pm 0.004$

M22680007 F0100 — 600 ton, 1100K, 300sec

x = −0.5 Y = +1.0 Z = −2.0

Pc + Rw + Ak.

M22680008 F0?0 600 ton 1100K 300 sec

x = −0.5 Y = −1.0 Z = −1.8

Rw + Pc + Ak

M22680009 MgO, 600 ton 1100K, 300 sec

x = −0.5 Y = +1.3 Z = −1.85 D.T = 3.4%

ρ = 22.758 ± 0.005 V/V0 = 0.911543

V = 68.0761 ± 0.015

M22680010 F0100, 600 ton, 1100K 300 sec.

x = −0.5 Y = −1.0 Z = −2.0

Pc + Rw + Ak (no Mg)

M22680011 F070 6MN 1100K 300 sec

x = −0.5 Y = −1.0 Z = −1.75 D.T. = 1.7%

19:00 M22680012 MgO 6MN 100K 150 sec.

x = −0.5 Y = −1.3 Z = −1.85 (6.4 slot)

ρ = 22.335 ± 0.031 V/V0 = 0.9139 ± 0.0001

V = 68.1998

19:07 [M2268013] MgO , 1100K, 150sec, 6.1GMN

x = −0.5 y = −1.3 z = −1.85

P = 22.59218 ± 0.0458

V = 68.124 ± 0.00133

V/V₀ = 0.9121 ± 0.001

19:15 [M2268014] MgO 1100K 150sec 6.16 MN

x = 0.5 y = −1.3 z = −1.85

6 → 6.16 MN

P = 22.528 ± 0.059

V = 68.1434 ± 0.09

V/V0 = 0.90244 ± 0.002

24分 19:30 [M2268015] MgO 1100 150sec 6.5MN

x = −0.5 y = −1.3 z = −1.8

.16 MN → 6.5MN

P = 22.56228 ± 0.04

V = 68.016 9 V/V0 = 0.90175 ± 0.

19:45 [M2268016] MgO 1100 150sec 6.7MN

x = −0.5 y = −1.3 z = −1.75

.6 → 6.7MN

P = 23.158 ± 0.031

V = 67.960 ± 0.00902

V/V₀ = 0.90990

9:50 M22680 17 MgO 1100 K 150 sec 6.8 MN.

→6.8MN x = -0.5 Y = 1.3 Z = -1.75

P = 23.3299 ± 0.0814

Φ = 67.9106 ± 0.023

V/V0 = 0.909328 ± 0.000314

6.8 MN for 5 min / 6.8 MN (3000 min)
6.9 MN for 5 min
7.0 MN for 10 min
7.1 MN for 15 min
7.2 MN for 20 min
7.3 MN for 25 min
7.4 MN for 30 min
7.5 MN for 40 min
7.5 MN (1000 min)

Heating to 1700 K

Time	Temp.	V1	I1	R1	P1	V2	I2	R2	P2	Stroke
0:06	827.4	30.95	6.44	4.80	199.88	15.39	11.17	1.38	172.6	9.130
0:09	928.6	31.26	7.00	4.47	218.64	15.52	12.24	1.26	190.2	9.131
0:10	1030.6	31.56	7.57	4.18	239.88	15.61	13.30	1.17	207.5	9.131
0:12	1134.7	33.47	7.52	4.51	253.98	16.89	12.97	1.30	219.6	9.131
0:14	1226.7	35.32	7.69	4.61	272.34	17.64	13.29	1.33	234.5	9.131
0:16	1328.6	36.56	8.11	4.53	297.48	18.22	14.10	1.29	257.9	9.131
0:17	1425.6	36.90	8.70	4.24	320.07	18.23	15.23	1.19	278.3	9.132

M22680 18 MgO 1700 K 150 sec 6.8 MN. D.T = 2.5

x = -0.5 Y = 1.3 Z = 1.7 P = 23.7468

27 M22680 19 MgO 1700 K 300 sec 6.93 MN.

x = -0.5 Y = -1.25 Z = 1.7 D.T = 3.

P = 23.40 (6)

20:32

M2261020 Fo100 1700K 6.98MN, 300sec

z=-1.85 y=-1.0 x=-0.5

Brg + Pc

20:40

M2268021 MgO 1700K 7.02 MN 300sec

x=-0.5 y=-1.3 z=-1.7, D.T-7.6 %

ρ = 23.4889 ± 0.07 V=68.98 ± 0.01 V/V0 = 0.92358

20:46

M2268022 Fo70 1700K ~~7.00~~ 7.05 MN 300sec

x=-0.5 y=-1.0 z=-1.55, D.T-1.8 %

Rw + St + fPc

M2268023 MgO, 1700K, 300sec, 7.12 MN

x=-0.5 y=-1.30 z=-1.7 D.T=2.3

ρ = 23.33219 ± 0.05 V=63.037111 V/V0 = 0.92411 ± ~~=~~ ± 0.0175

M2268024 Fo100, 1700K 300sec D.T -1.3

x=-0.5 y=-1.0 ~~z=-1.85~~

Brg + Pc

M2268025 ~~Fo~~ MgO, 1700K, ~~300~~ 200 sec, 7.18 MN

x=-0.5 y=-1.3 z=-1.7 D.T 8.2 %

P = 23.20775 ±007 v = 69.07 ±0.22 v/v0 = 0.92493

12 M2268026 F0 70 , 1700K 7.20MN 300 sec

x = -0.5 y = -1.6 z = -1.55

Rwt St + fPc

⇒ 7.2MN → 7.50 in 20 min [Pressure - Profile change

M2268027 MgO , 1700K 7.26MN 300 sec.

x = -0.5 y = -1.9 z = -1.70

P = 23.219 ± 0.061

v = 69.0925 ± 0.019

v/v0 = 0.924886 ± 0.0002

Time	Temp.	V1	I1	R1	P1	V2	I2	R2	P2	Stroke
21:23	1427.6	34.28	9.47	3.62	323.87	16.76	16.88	0.99	2837	9.270

24 F0 1000 M2268028 , 1700K 7.36MN 300 sec.

x = 0.5 y = -1.0 z = -1.85 D.T — 1.5%

Brg + Pc

F0 700 M2268029 1700K 7.50MN 150 sec

D.T 2.46

x = -0.8 y = -1.3 z = -1.7.

P = 23.1483 ± 0.0708

v = 69.0625 ± 0.022

v/v0 = 0.925203 ± 0.0003

21:45 M2268030 Fo 70 , 1700K , 7.49 MN . 300s

x = -0.5 y = -1.0 z = -1.50 . (sample position corrected)

~~Brg+Pt~~ Rw+St+Fpc

21:52 M2268031 Fo 100 , 1700K 7.58MN 300s

x = -0.5 y = -1.0 z = ~~-1.785~~ -1.75 D.T

Brg+Pt

22:00 M2268032 MgO , 1700K , 7.75 MN 300s

x = -0.5 y = -1.8 z = -1.6 D.T 1.6.

(V slit = 0.4) (corrected)

$P = 23.82032 \pm 0.17688$ 23.51(7)
$V = 68.805 \pm 0.0545$
$V/V_0 = 0.9228 \pm 0.0007$ - (420), (422)

Time	Temp.	V_1	I_1	R_1	P_1	V_2	I_2	R_2	P_2	stroke
22:04	1425.9	34.05	9.56	3.56	326.19	16.64	17.07	0.97	283.8	9.35

Quench

22:05 M2268033 MgO - Repeat (32) 150 sec. 7.8 MN

$P = 23.693 \pm 0.066$
$V = 68.93 \pm 0.020$
$V/V_1 = 0.9229 \pm 0.0002$