3/6/78	Mo $1\,10^{-5}$ He 160 $2\,10^{-9}$
247	9·4 + 1 → 1·13
248	Mo var 9·4 + 1·32 $5\,10^{-10}$
30/6/78	Mo $1\,10^{-9}$ 60 10 + 1·35 $4\,10^{-7}$ He
49 a, b	
/7/78	Mo $1\,10^{-9}$ 60 a He b var
280 ab	110
281	Mo a He b var on brilt area of 110
4/7/78	Mo longer detector pulse 50nS ↓
282	
6/7/78	New Mo tip 12 + 2·04 a He
283 ab	b var (+Ne)
7/7/78	Mo $2\,10^{-10}$ 60 a He b var
284 ab	
285 ab	Mo He, var
286	Ne $5\,10^{-8}$ 12·5 + 2

7/78 contd 287 | Through-focus series
Mo 305/310/315/320/325/330 //591
t-f | Tip 13.15 + 2.18
1×10^{-5} Ne

88 ab | Mo

17/78 | Mo [illegible] 7.30 + 1.13 167/591
289

290 | Mo g-b 9 + 1.35 235/545

291 | 9.4 + 1.5

10/7/78 | Mo g-b same tip 5×10^{-10}/60
292 | 9.45 + 1.58 229/575
+ IAP pics

293 | Mo New spec 5.26 + 1 121/595

[294] | Mo/Ta/V Melmeds round robin
9.4 + 1.3 216/580

294 | Ta carbide
IAP

295 | Matrix outside ppt 11.41 + 1.52 266/561

296 | " away from ppt 11.60 + 1.70 273/561

[illegible]/7/78	Same Mo / V / Ta tip
[2]97	12·31 +1·43 284/561 284/561 ~10% pulse 3 10⁻⁶ He/Ne
[2]98	" 13·67 + 80 5% pulse 317/561 "
[2]99	12·47 + 2 ~15% 300/561 "
	IFES
26/7/78	Same Mo V Ta 13·80 + 1·63 320/561
300	~10⁻⁷ He/Ne
301	" 14 + 2·00 330/561 1000 ions
302	14.16 + 1·8 330/561 ~~[illegible]~~ voc
303	14.16 + 2 voc 330/561
304 ab	off defect 348/561 extracted
	?
305	Ir 5.2 + 1 3 10⁻⁸ He/Ne 124/584 Noisy
306	same Ir 5.6 + 1 3 10⁻⁷ 128/587
307	Same Ir painted Mound 1 4·55 + 1 111/561 250 ions popped after time

08a,b | Clean Ir substrate 12+2−2.16 333/570

12 + 2.16−2.27 " "

to check energy focussing

309 ?

30 July

310 | edge of tip 162/561 → 180/561 −713 +1.2

410 cons

311 | → 9.3 210/561 210 cons

∴ ? xtalline oxide.

1/8/78 | Same Ir tip /coated

312 | off matrix 397/561 16.5 + 2.76

1860 cons 200 zone line

313 a | Ni₃ Al ex SAM / ☐☐ ppts 14.2 + 2.65 360/561

→ no ppt

b | 14.2+2.65 360/561 No ppt.

314 | Ppt ☐ 14.3 + 2.65 360/561

/8/78 Repolished Ni_3Al

315 7.41 +1.4 180/561

1AP

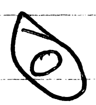
/8/78 Same tip

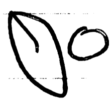
316a 10.68 + 1.9 251/290 Regular side of 200

$-Ni_3Al$

b dark region nearby 10.57+1.82 - matrix

317 Interface Ni_3Al / Matrix 1006 +2.50 250/290

318a  ppt Ni_3Al

b Matrix 

/8/78 Fe/Ni/Cr 'amorphous' from J Wood.

319 ~300 ions - flashed.

/8/78 1/Mond 1/methanol / 5 mins 450 8.1 + 1.3 200/561

320a,b a ~100 ions

b 210/561 ~3 ions, up volts 280/561 11 + 1.3

321 Off peripheral 111, layer, three layer after 50 ions

16 + 3 - 17.15+3 370/561 390/561

322 Peripheral 111, converter on, ~3 planes evaporated

17.15 + 3 400/561 2000 ions

10/8/78	
323	In Mond I / 450 / 15 min — not much of a pitch. 8 – 12 KV
324ab	PFMs Fe/Sn gb a on boundary 11–11.15+2 270/561 b 1.70 matrix
11/8/78 325ab	Same gb a gb 2000 cons 12.3 +2 300/561 b matrix

Au sommet 567 568 569 570 576 577 578 579

580 581 582 583 584 585 586 630 631 632

633 635 636 637 638

Ga sommet . . .

607 608 609 [illegible] [illegible] [illegible] 639 640 641 642 643 644

645 646 650 657

Sandwich 528 529 530 531

2nd batch 563 564 565 566 571 572

Gillians Ti .2 Mn .4 C .09 Fe/800g/1000s 600 601 602 603 604 605 606

Rh 512 513

NiAlCr AsQ 521 522 523 524

5min 610C 532 533 534 535 536

2hrs 620C 556 557

PE16 AsQ 525 526

Carbide 900C 1hr 537 538

γ' 4hr 750°C ? 539 540 541 542 543 544 545 546 547 548

γ' 20min 75 549 550 551 552 553

γ' 8hr 554 555

FeSi 396 398 399 ~~400~~ 401 402 403

FeSb 404 405 406 407 408 409 410 411 412, 413, 4

APKI treated/(long) 474, 475, 476 (ppt), 477, 478, ~~4~~

20 min @ 750° C 481

5 min @ 750 (3)89 490

As rec'd 482, 483

Calibration (Harry's) 573 574 575

Martensite (Harry's) 494 574 575 576 577 578 519 520

623 624 625 626 627 628 629 633 634 655(b) 656 657 658 659 660 661

Fe/12 Cr/.8 C spun (478=479), 480

Round Robin SS 391, 392,

Slipform SS 75 at 485° 393, 394, 395, 414, 415, 416, 417, 418, 419, 420; 505, 506, 507, 508, 509, 510, 511
610 611 612 613 614 615 616 617 618 619 620 621 622

SS as recd 421, 430, 431, 432,

750 at 485 422, 423, 424, 425, 426, 427, 428, 429, 433, 434, 435; 495, 497, 498, 499, 500, 501, 502, 503, 504

Ni Al 313, 314, 315, 316, 317, 318,
spun 468, 469

Ni Al Ti as qr 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465
New batch as r 470, 471, 472, 473 / 562
5 hr 484+485, 486+487
1 hr 625°C 558 559 560 561

Ni3 Al 435, (436), 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447,
448, 449, 450, 451, 452, [redacted]

PSW 30 mins 340, 341, 342, 343, 344, 345, 346, 347, 348
349, 350, 351, 352, 353, 357, 361
[oxidised 362, 363, 364, 365, 366, 367, 368, 369, 370
~~647 648~~ 649

300 mins 389, 390,

As rec 647 648 649 652 653 654 655(a)

Ir 305, 306, 307, 308, 310, 311, 312, 320, 321
322, 323, ~~[illegible]~~, 329 (M1) 330

Ir + Mod 1 329, 330 358, 359, 360

Fe, Sn 324, 325, 326, 327, 331, 332, 333, 334, 335, 336
337 338 339

W + Mod 1 357

Ti 355 356 3

Mo 247, 248, 249, 280, 281, 282, 283, 284, 285, 286
287, 288, 289, 291, 292, 293, [illegible]295

[Mo V Ta 247, 294, 295, 296, 297, 298, 299, 301, 302, 303, 304,
371, 372, 373, 374, 375, 376, 377, 378, 379,
380, 381, 382, 383, 384, 385, 386, 387, 388
587 588 589 590 591 592 593 594 595 596 597 598 599