017029

SUMMARY

PROJECT: DY - Pb Isotope Results

DDH: 77-X-11 and 78-X-11

Mean for 22 effective analyses

		σ	$\overline{\sigma}$ %
Pb^{206}/Pb^{204}	18.423 18.411 *	.0266	.031
Pb^{207}/Pb^{204}	15.667 15.649 *	.024	.033
Pb^{208}/Pb^{204}	38.381 38.359 *	.094	.052

* Normalized to a Broken Hill standard of
6/4 16.003, 7/4 15.389, 8/4 36.657

$\overline{\sigma}$ % for 11 runs on the Broken Hill standard

Pb^{206}/Pb^{204}	0.021%
Pb^{207}/Pb^{204}	0.016%
Pb^{208}/Pb^{204}	0.054%

These values compare favourably to values for DY mean.

Anvil Range Yukon

Values all normalized to bare values for Broken Hill (16.003 15.389 35.657)

①	Faro Main	18.364 (.0053)	15.667 (.0022)	38.359 (.012)
②	Faro No 2	18.374 (.028)	15.677 (.0066)	38.365 (.044)
⑤	Vangorda	18.354 (.0032)	15.667 (.0026)	38.301 (.012)
⑥	Swim	18.340 (.0022)	15.665 (.002)	38.293 (.0075)
⑫	Sea	18.355 (.13)	15.652 (.017)	38.300 (.16)
⑦	Grum	18.404 (.013)	15.654 (.011)	38.378 (.046)
⑰	Dye	18.444 (.0052)	15.649 (.00057)	38.402 (.020)

Faro M	2.088
Faro No 2	2.088
Vangorda	2.087
Swim	2.088
Sea	2.087
Grum	2.085
Dye	2.086

μ ratios

Sample numbers analysed at UBC microprobe No. system

Hole ①

2579	10109-001	77-X-11
2574	002	
2569	003	
2558 ⊗	004	
2551	005	
2547	006	
2540	007	
2527	10109-008	

Hole ②

		78-X-11
2856	10109-009	
2848	010	
2844	011	
2846	012	
2840	013	
2839	014	
2835	015	
2833	016	
2832	017	
2829	018	
2828	019	
2826	020	
2825 ⊗	021	
2819	10109-022	

⊗ average of 2 analyses

No 25

15%

10109-001

2579	001	18.431 (.1)	15.628 (.08)	38.343 (.11)
2574	2	18.443 (.04)	15.662 (.05)	38.406 (.03)
2569	3	18.443 (.1)	15.694 (.09)	38.399 (.18)
		(18.439 .02%)	15.661 (.12)	38.383 (.05)
2558*	4	18.395 (.09)	15678 (.20)	38.359 (.07)
2551	5	18.423 (.06)	15.703 (.06)	38.406 .1)
		(18.409 (.08)	(15.691 .08)	(38.383 .06)
2547	6	18.403 (.1)	15.676 (.06)	38.537 (.07)
2540	7	18.423 (.07)	15.668 (.07)	38.353 (.07)
2527	8	18.391 (.1)	15.609 (.11)	38.216 (.07)
		(18.407 .05)	15.651 (.14)	38.369 (.25)

Hole 28

14109 009

2856	09	18·485 (-08)	15·680 (-05)	38·505 (-17)
2848	10	18·436 (-07)	15·673 (-06)	38·398 (-1)
2844	11	18·401 (-06)	15·651 (-05)	38·326 (-05)
2846	12	18·429 (-11)	15·666 (-11)	38·359 (-19)
2840	13	18·401 (-09)	15·668 (-08)	38·426 (-08)
		(18·430 -08)	(15·668 -03)	(38·393 -09)
2839	14	18·415 (-09)	15·666 (-09)	38·437 (-07)
2835	15	18·416 (-11)	15·617 (-1)	38·289 (-03)
2833	16	18·419 (-1)	15·679 (-09)	38·214 (-1)
		18·417 (-01)	15·654 (-12)	38·313 (-17)
2832	17	18·423 (-09)	15·690 (-07)	38·486 (-13)
~~2830~~				
2829	18	18·402 (-02)	15·646 (-06)	38·328 (-08)
2823	19	18·463 (-07)	15·673 (-10)	38·561 (-1)
2826	20	18·477 (-05)	15·697 (-8)	38·460 (-1)
		18·441 (-09)	15·677 (-07)	38·459 (-13)
2825	21	18·388 (-25)	15·661 (-18)	38·357 (-02)
2819	22	18·398 (-1)	15·683 (-09)	38·262 (-08)
		18·393 (-03)	15·672 -07	38·340 (-12)

	28 (B)	$\bar{\sigma}$ %	25 (A)	$\bar{\sigma}$ %
2 Lower	18·430	·08	18·439	·02
	15·662	·03	15·661	·12
	33·393	·09	33·383	·05
2 Upper	18·417	·01		
	15·654	·12		
	33·313	·17		
3	18·441	·09	18·409	·03
	15·677	·07	15·691	·03
	33·459	·13	33·383	·06
4	18·393	·03	18·407	·05
	15·672	·07	15·651	·14
	33·310	·12	33·369	·25

Grand average 22 effective analyses

	σ	∓ %
	15.667	.029 .033
	18.423	.0266 .031
	38.381	.094 .052

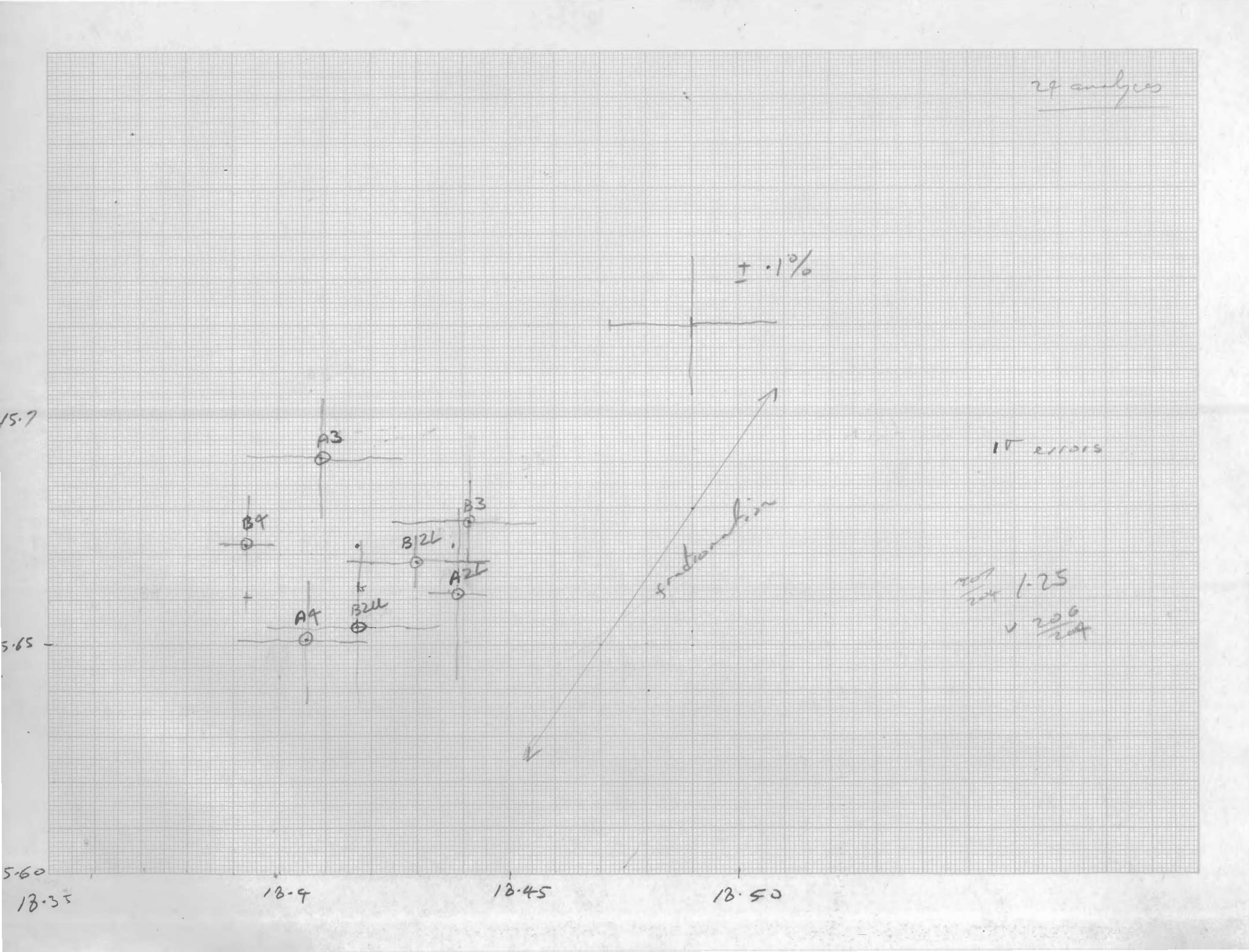
means for 11 runs Broken Hill standard

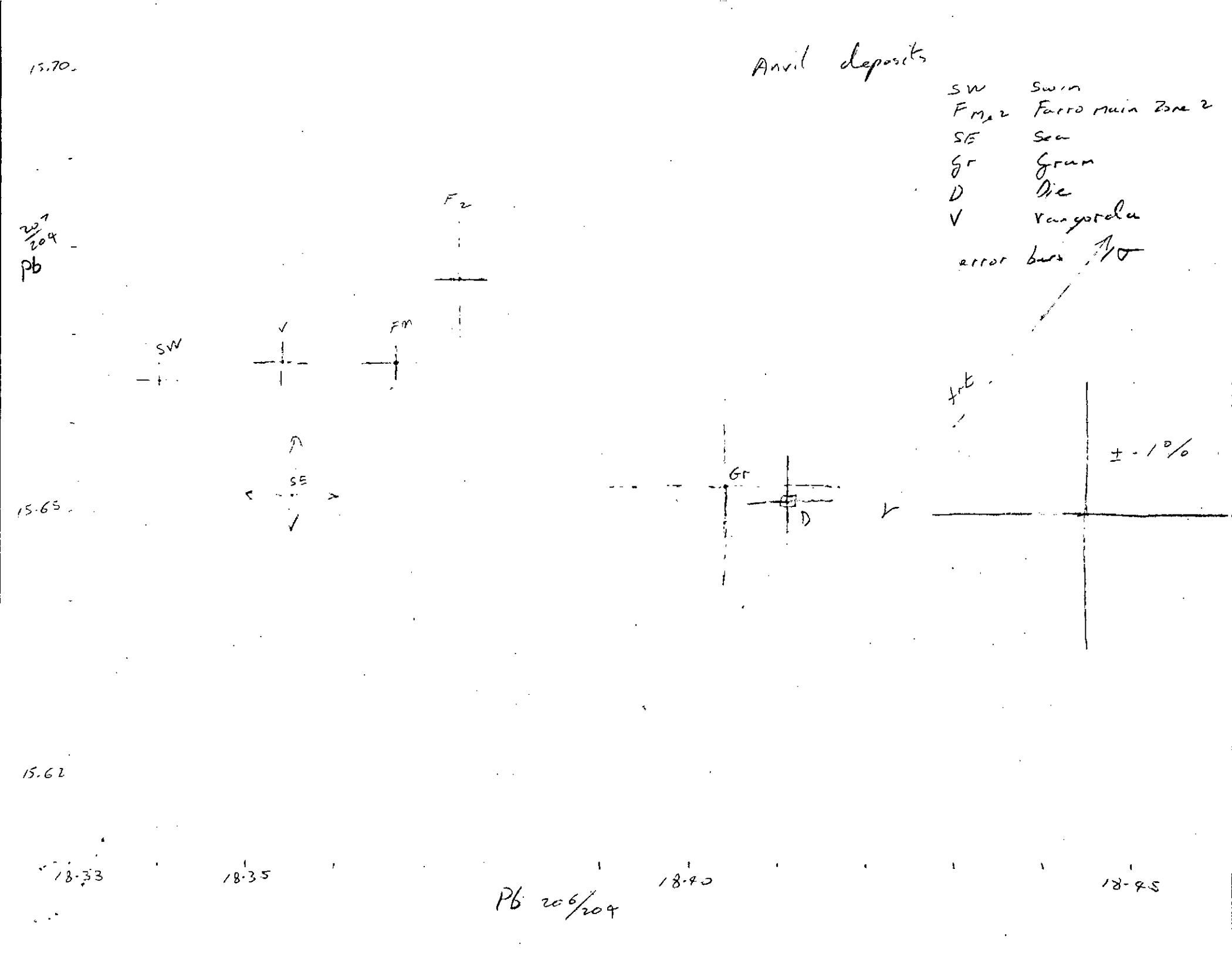
6/4	.024	%
7/4	.016	%
8/4	.054	%

normalized values for Average Dip

	18.411
	15.649
	38.359

All data normalized to a Broken Hill value of 6/4 16.003 7/4 15.389 8/4 36.657


29 analyses
± .1%
A3
B4
B3
B2L
A2L
A4
B2U
15.7
5.65
5.60
18.35
18.4
18.45
18.50
1σ errors
1.25


Anvil deposits
SW Swim
$F_{m,2}$ Faro main Zone 2
SE Sea
Gr Gram
D Die
V Vangorda
error bars 1σ
15.70
15.65
15.62
$^{207}/_{204}$ Pb
SW
V
FM
F_2
SE
Gr
D
V
$\pm$ 1%
18.33
18.35
18.40
18.45
Pb $^{206}/_{204}$

ISOTOPE SAMPLES

PROJECT: DY

DDH: 77-X-11

Geochemical Sample No.	Unit	Depth Interval	Mindep Number
2579	4A0	789.6 - 791.7	10109-001
2574	4A0	779.6 - 781.6	10109-002
2569	4G0/4A0	769.6 - 771.6	10109-003
2558*	4G0	670.6 - 672.5	10109-004
2551	4C7	660.5 - 661.5	10109-005
2547	4L0	582.3 - 584.3	10109-006
2540	5B6	571.6 - 572.9	10109-007
2527	4H1	549.7 - 551.3	10109-008

* Average of 2 samples

ISOTOPE SAMPLES

PROJECT: DY - Pb Isotope Results

DDH: 77-X-11

Mindep No.	Geochem Split	Unit	Pb^{206}/Pb^{204}	Pb^{207}/Pb^{204}	Pb^{208}/Pb^{204}
10109-001	2579	4A0	18.431 (.1)[+] 18.419 *	15.628 (.08) 15.610 *	38.343 (.11) 38.321 *
10109-002	2574	4A0	18.443 (.04) 18.431 *	15.662 (.05) 15.644 *	38.406 (.03) 38.384 *
10109-003	2569	4G0/4A0	18.443 (.1) 18.431 *	15.694 (.09) 15.676 *	38.399 (.18) 38.377 *
10109-004	2558	4G0	18.395 (.03) 18.383 *	15.678 (.2) 15.660 *	38.359 (.01) 38.337 *
10109-005	2551	4C7	18.423 (.06) 18.411 *	15.703 (.06) 15.685 *	38.406 (.1) 38.384 *
10109-006	2547	4L0	18.408 (.1) 18.396 *	15.676 (.06) 15.658 *	38.537 (.07) 38.515 *
10109-007	2540	5B6	18.423 (.07) 18.411 *	15.668 (.07) 15.650 *	38.353 (.07) 38.331 *
10109-008	2527	4H1	18.391 (.1) 18.379 *	15.609 (.11) 15.591 *	38.216 (.07) 38.195 *

[+] (1 sigma in percent)

* Normalized to Broken Hill standard value of 6/4 16.003, 7/4 15.389, 8/4 36.657

ISOTOPE SAMPLES

PROJECT: DY

DDH: 78-X-11

Geochemical Sample No.	Unit	Depth Interval	Mindep Number
2856	4AO	636.0 - 638.0	10109-009
2848	4D4	621.6 - 623.6	10109-010
2844	4AO	615.3 - 617.2	10109-011
2846	4G4	618.3 - 619.6	10109-012
2840	4AO	607.3 - 609.3	10109-013
2839	4AO	592.5 - 594.2	10109-014
2835	4AO	586.1 - 587.5	10109-015
2833	4AO	583.1 - 584.1	10109-016
2832	4AO	561.2 - 562.3	10109-017
2829	4AO	556.2 - 558.3	10109-018
2828	4AO	554.1 - 556.2	10109-019
2826	4AO	550.2 - 552.2	10109-020
2825*	4EC	477.8 - 479.4	10109-021
2819	4EO	464.9 - 467.2	10109-022

* Average of 2 analyses

ISOTOPE SAMPLES

PROJECT: DY - Pb Isotope Results

DDH: 78-X-11

Mindep No.	Geochem Split	Unit	Pb^{206}/Pb^{204}	Pb^{207}/Pb^{204}	Pb^{208}/Pb^{204}
10109-009	2856	4A0	18.485 (.08) + 18.473 *	15.680 (.05) 15.662 *	38.505 (.17) 38.483 *
10109-010	2848	4D4	18.436 (.07) 18.424 *	15.673 (.06) 15.655 *	38.348 (.1) 38.326 *
10109-011	2844	4A0	18.401 (.06) 18.389 *	15.651 (.05) 15.633 *	38.326 (.05) 38.304 *
10109-012	2846	4G4	18.429 (.11) 18.417 *	15.666 (.11) 15.648 *	38.359 (.19) 38.337 *
10109-013	2840	4A0	18.401 (.09) 18.389 *	15.668 (.08) 15.650 *	38.426 (.08) 38.404 *
10109-014	2839	4A0	18.415 (.09) 18.403 *	15.666 (.09) 15.648 *	38.437 (.07) 38.415 *
10109-015	2835	4A0	18.416 (.11) 18.404 *	15.617 (.1) 15.599 *	38.289 (.03) 38.268 *
10109-016	2833	4A0	18.419 (.1) 18.407 *	15.679 (.04) 15.661 *	38.214 (.1) 38.193 *
10109-017	2832	4A0	18.423 (.09) 18.411 *	15.690 (.07) 15.672 *	38.486 (.13) 38.464 *

\+ (1 sigma in percent)

* Normalized to Broken Hill standard value of 6/4 16.003, 7/4 15.389, 8/4 36.657

ISOTOPE SAMPLES

PROJECT: DY - Pb Isotope Results

DDH: 78-X-11

Mindep No.	Geochem Split	Unit	Pb^{206}/Pb^{204}	Pb^{207}/Pb^{204}	Pb^{208}/Pb^{204}
10109-018	2829	4AO	18.402 (.02) 18.390 *	15.646 (.06) 15.628 *	38.328 (.08) 38.306 *
10109-019	2828	4AO	18.463 (.07) 18.451 *	15.673 (.10) 15.655 *	38.561 (.1) 38.539 *
10109-020	2826	4AO	18.477 (.05) 18.465 *	15.697 (.1) 15.679 *	38.460 (.1) 38.438 *
10109-021	2825	4EC	18.388 (.25) 18.376 *	15.661 (.18) 15.643 *	38.357 (.02) 38.335 *
10109-022	2819	4EO	18.398 (.1) 18.386 *	15.683 (.09) 15.665 *	38.262 (.08) 38.241 *