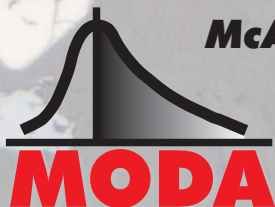


Burnie Research Laboratory

WESTGOLD RESOURCES Explorer 108 Composite Mineralogy

AUGUST 2008



McArthur Ore Deposit Assessments Pty Ltd

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Sample DDH CF94-49 116.9m (Beach L2) [Scale: 1cm=26 μ m]

BURNIE RESEARCH LABORATORY

Westgold Resources Explorer 108 Project

Composite Mineralogy (Job 396)

August 2008

Method

Four drillcore composites (*D001, D007, D020 and D022*) from the Westgold Resources Explorer 108 Project were submitted by John Glen (Burnie Research Laboratory) for mineralogical assessment. The samples consisted of 6 size fractions: +212 μ m, +150 μ m, +106 μ m, +75 μ m, +53 μ m and +20 μ m.

These were mounted as polished thin sections (3 fractions per slide) by Australian Petrographics in Queanbeyan, N.S.W.

The standard MODA technique for quantitative mineralogy was adopted, with two scans for each sample.

For the first scan, for each size fraction, 100 grains were selected at random and the area % of each mineral present was visually estimated. The minerals logged were: *pyrite* (Py), *magnetite+hematite* (MtHe), *sphalerite* (Sp), *galena* (Gn), *tetrahedrite* (Te), *chalcopyrite* (Cp), *talc* (Tc) and *gangue* (i.e. quartz, chlorite, carbonates, etc; Ga).

For the second scan, a target specific scan was undertaken to improve the liberation statistics of the important minerals. For each fraction 100 grains containing any of the economic minerals (i.e. *sphalerite, galena, chalcopyrite* or *tetrahedrite*) were selected at random and logged as for the first scan. Because the non-economic minerals have been ignored, it is invalid to compare the grades calculated from this specific target scan with the provided laboratory assays.

In addition, a schematic textural diagram or icon was chosen to represent each grain logged – these are presented as coloured grain maps. The standard mineral liberation and association parameters were calculated and presented in summary spreadsheet form. Considering the lack of available *sphalerite* microprobe analyses, assays calculated from the mineralogy assumed the *sphalerite* to contain 1%Fe.

The liberation parameters of both scans were merged to provide one summary per sample.

Photomicrographs were taken of the +53 μ m fraction of each sample for comparative purposes.

Overall Composition

The mineralogy of the Explorer 108 ores is quite simple:

- *Sphalerite* (rather pale indicating low Fe content, but often coloured a bluish purple indicating some unusual trace contaminant)
- *Galena*
- *Chalcopyrite* (often with galena)
- *Tetrahedrite* (extremely rare, always with *galena*)

- *Quartz*
- *Chlorite*
- *Carbonate* (probable dolomite)
- *Talc*
- *Magnetite* (often partially altered to hematite)
- *Hematite* (usually with magnetite)
- *Pyrite* (dominantly well crystallised, but rare examples of late-stage melnikovite were seen)
- possible rare *cassiterite*

Explorer 108 Vol% Composition (weighted sum of all fractions)

Sample	Sp	Gn	Cp	Te	Py	MtHe	Tc	Ga
D001	11.9	2.3	trace	0.0	1.7	6.8	24.6	52.9
D007	17.3	2.8	1.2	0.0	3.6	13.7	9.4	52.0
D020	10.7	1.5	trace	trace	0.2	2.8	7.5	77.4
D022	3.8	0.7	trace	0.0	0.7	0.2	4.2	90.5

Sp=sphalerite *Gn*=galena *Cp*=chalcopyrite *Te*=tetrahedrite *Py*=pyrite *MtHe*=magnetite+hematite *Tc*=talc *Ga*=other gangue

Liberation Results

Detailed tabulations and textural icon maps are provided later in the report, but a brief summary is provided below for *sphalerite* and *galena* for each composite:

Explorer 108 D001 Sphalerite liberation/association %

Fraction	Wt%	Free	Binary with						Ternary
			Gn	Cp	Py	MtHe	Tc	Ga	
+212µm	3.0	7	10	0	0	0	19	13	52
+150µm	8.1	24	11	0	3	1	16	5	40
+106µm	15.4	29	27	0	0	1	6	9	28
+75µm	16.7	53	13	0	0	0	4	11	18
+53µm	12.9	66	10	0	0	5	2	2	12
+20µm	23.2	86	11	0	0	0	2	2	0
TOTAL	79.3	55	14	0	0	1	5	6	17

Sp=sphalerite Gn=galena Cp=chalcopyrite Te=tetrahedrite Py=pyrite MtHe=magnetite+hematite Tc=talc Ga=other gangue

Explorer 108 D001 Galena liberation/association %

Fraction	Wt%	Free	Binary with						Ternary
			Sp	Cp	Py	MtHe	Tc	Ga	
+212µm	1.7	0	9	0	0	2	2	6	82
+150µm	4.8	0	17	0	0	1	1	15	65
+106µm	10.0	41	27	0	0	3	1	9	20
+75µm	12.4	32	23	0	1	9	1	0	34
+53µm	11.5	54	8	0	0	7	8	10	13
+20µm	26.3	78	12	0	0	0	0	10	0
TOTAL	66.7	52	16	0	0	3	2	8	18

Sp=sphalerite Gn=galena Cp=chalcopyrite Te=tetrahedrite Py=pyrite MtHe=magnetite+hematite Tc=talc Ga=other gangue

Explorer 108 D007 Sphalerite liberation/association %

Fraction	Wt%	Free	Binary with						Ternary
			Gn	Cp	Py	MtHe	Tc	Ga	
+212µm	1.0	17	20	0	0	3	7	7	46
+150µm	4.3	22	3	0	3	4	8	10	50
+106µm	12.9	38	17	0	0	4	10	12	20
+75µm	18.0	49	23	1	2	3	2	8	12
+53µm	14.3	68	24	0	1	1	0	3	3
+20µm	25.7	85	9	0	0	2	0	2	3
TOTAL	76.2	61	16	0	1	3	3	6	11

Sp=sphalerite Gn=galena Cp=chalcopyrite Te=tetrahedrite Py=pyrite MtHe=magnetite+hematite Tc=talc Ga=other gangue

Explorer 108 D007 Galena liberation/association %

Fraction	Wt%	Free	Binary with						Ternary
			Sp	Cp	Py	MtHe	Tc	Ga	
+212µm	0.5	0	13	0	0	0	0	16	71
+150µm	1.9	0	1	0	1	10	5	12	70
+106µm	6.0	0	25	3	1	15	3	8	46
+75µm	10.1	25	50	12	0	1	0	5	8
+53µm	10.8	48	28	0	2	4	0	14	3
+20µm	32.3	81	9	0	5	3	0	1	1
TOTAL	61.6	55	20	2	3	4	0	5	10

Sp=sphalerite Gn=galena Cp=chalcopyrite Te=tetrahedrite Py=pyrite MtHe=magnetite+hematite Tc=talc Ga=other gangue

Explorer 108 D020 Sphalerite liberation/association %

Fraction	Wt%	Free	Binary with						Ternary
			Gn	Cp	Py	MtHe	Tc	Ga	
+212µm	2.0	0	10	0	0	0	12	33	45
+150µm	6.5	18	11	3	0	2	7	23	36
+106µm	12.1	36	4	2	0	0	3	19	35
+75µm	14.3	41	19	0	2	0	5	15	18
+53µm	11.0	75	3	2	0	0	1	15	5
+20µm	28.7	85	13	0	0	0	1	0	1
TOTAL	74.6	59	11	1	0	0	3	11	15

Sp=sphalerite Gn=galena Cp=chalcopyrite Te=tetrahedrite Py=pyrite MtHe=magnetite+hematite Tc=talc Ga=other gangue

Explorer 108 D020 Galena liberation/association %

Fraction	Wt%	Free	Binary with						Ternary
			Sp	Cp	Py	MtHe	Tc	Ga	
+212µm	1.2	0	8	0	0	0	0	37	54
+150µm	3.2	0	8	0	0	2	0	11	79
+106µm	6.2	0	17	0	0	10	0	15	58
+75µm	9.0	16	36	0	0	2	0	19	27
+53µm	8.4	48	3	0	1	0	0	35	13
+20µm	34.8	65	30	0	0	0	0	3	2
TOTAL	62.8	45	24	0	0	1	0	12	18

Sp=sphalerite Gn=galena Cp=chalcopyrite Te=tetrahedrite Py=pyrite MtHe=magnetite+hematite Tc=talc Ga=other gangue

Explorer 108 D022 Sphalerite liberation/association %

Fraction	Wt%	Free	Binary with						Ternary
			Gn	Cp	Py	MtHe	Tc	Ga	
+212µm	1.7	8	0	0	0	0	11	42	39
+150µm	4.9	15	13	4	0	0	0	36	33
+106µm	12.4	21	10	0	0	0	3	44	23
+75µm	16.2	47	12	2	0	0	0	23	16
+53µm	13.3	57	13	2	0	0	0	20	8
+20µm	26.1	73	7	3	2	0	2	13	0
TOTAL	74.6	51	10	2	1	0	1	24	12

Sp=sphalerite Gn=galena Cp=chalcopyrite Te=tetrahedrite Py=pyrite MtHe=magnetite+hematite Tc=talc Ga=other gangue

Explorer 108 D022 Galena liberation/association %

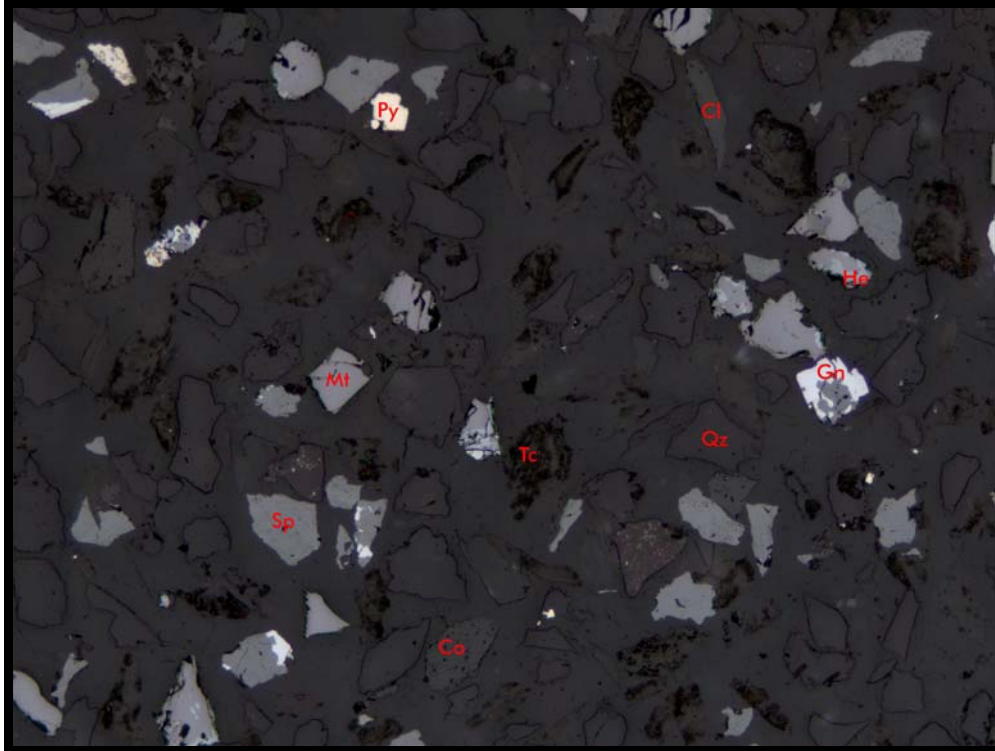
Fraction	Wt%	Free	Binary with						Ternary
			Sp	Cp	Py	MtHe	Tc	Ga	
+212µm	0.9	0	0	0	0	0	0	63	37
+150µm	2.5	0	19	0	0	1	0	24	56
+106µm	6.9	0	11	0	0	0	0	34	55
+75µm	10.4	29	43	0	0	0	0	11	17
+53µm	10.6	40	40	0	0	0	0	6	15
+20µm	31.5	78	11	0	3	0	0	3	5
TOTAL	62.8	51	21	0	2	0	0	10	17

Sp=sphalerite Gn=galena Cp=chalcopyrite Te=tetrahedrite Py=pyrite MtHe=magnetite+hematite Tc=talc Ga=other gangue

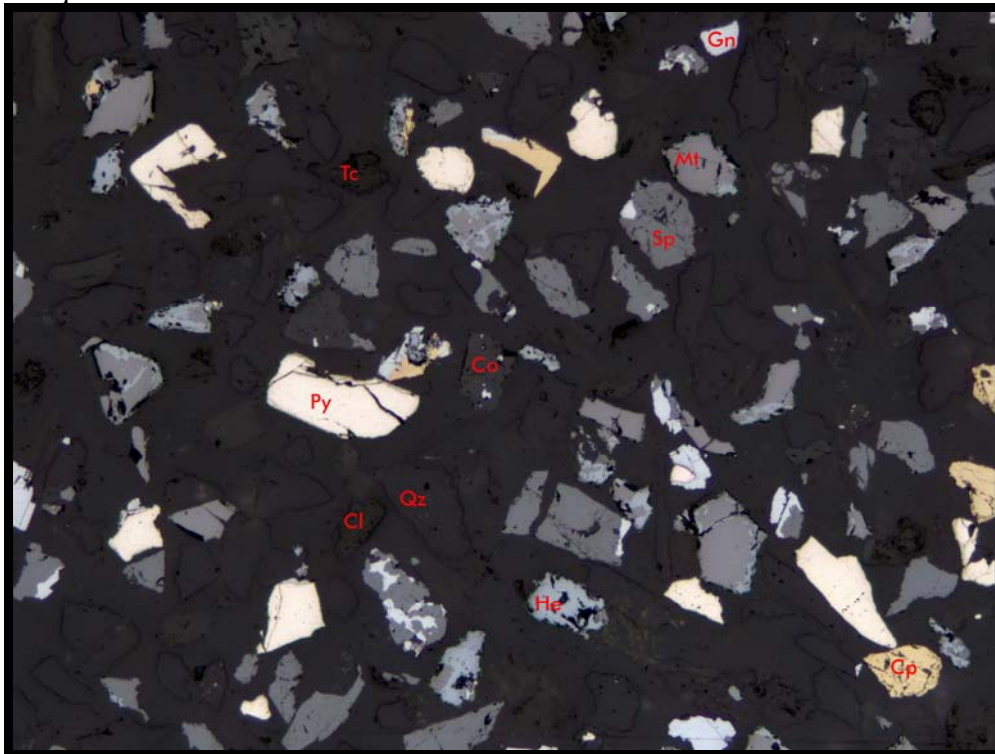
Photomicrographs

All photomicrographs are of the +53 μ m fraction, image width 1.1mm.

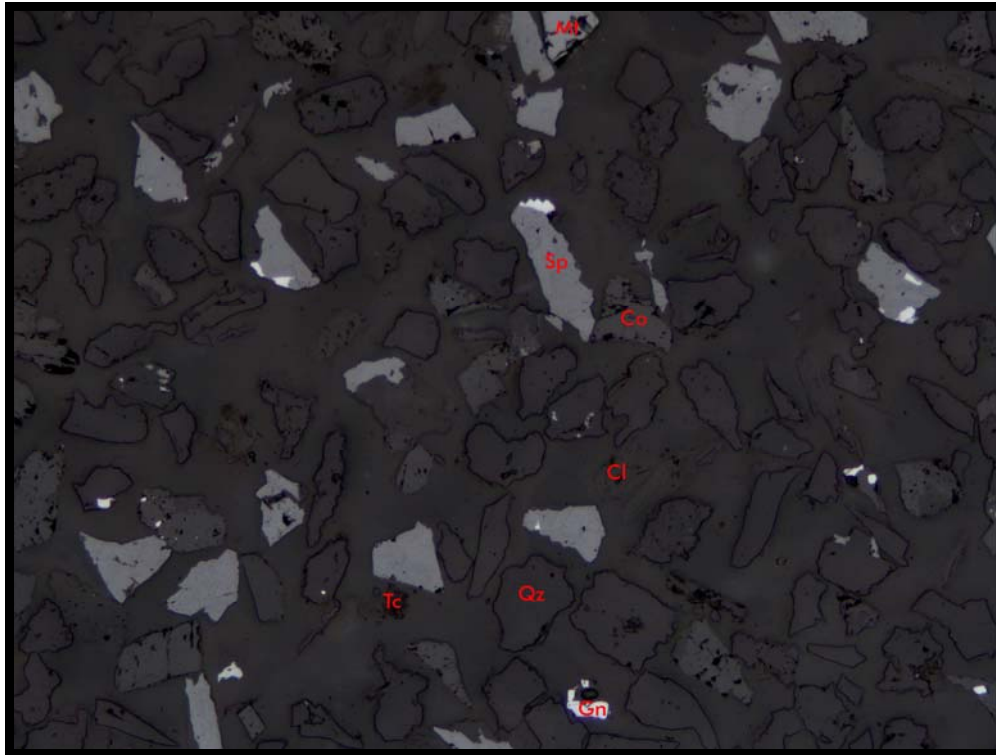
Sp=sphalerite, *Gn*=galena, *Cp*=chalcopyrite, *Py*=pyrite, *Mt*=magnetite, *He*=hematite, *Qz*=quartz, *Cl*=chlorite, *Co*=carbonate, *Tc*=talc



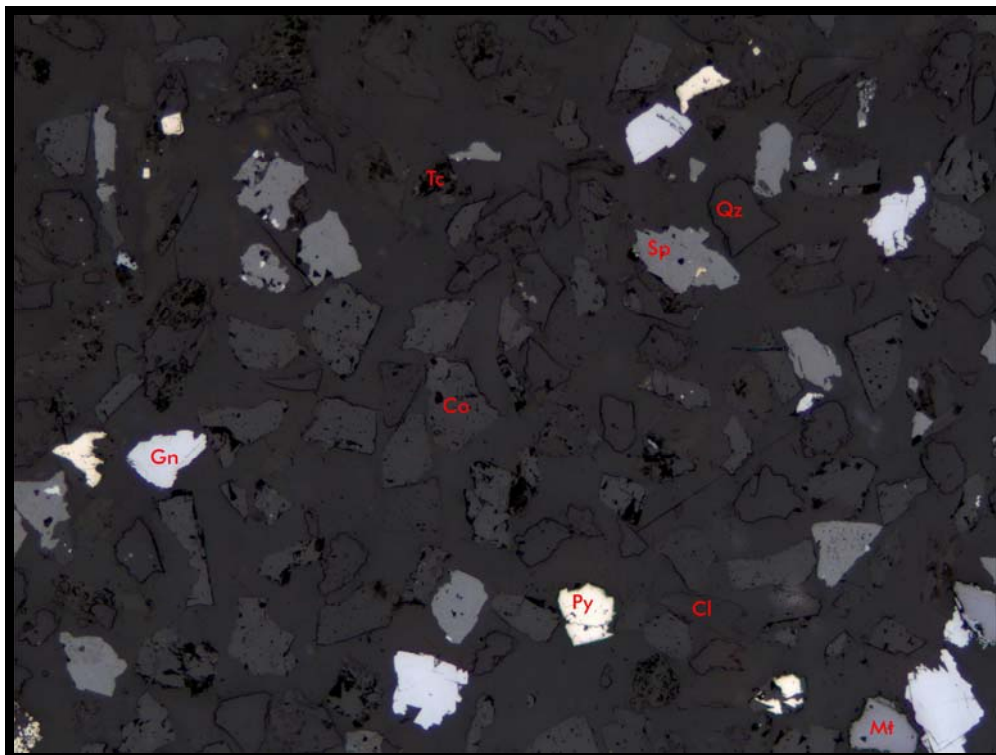
Composite D001



Composite D007



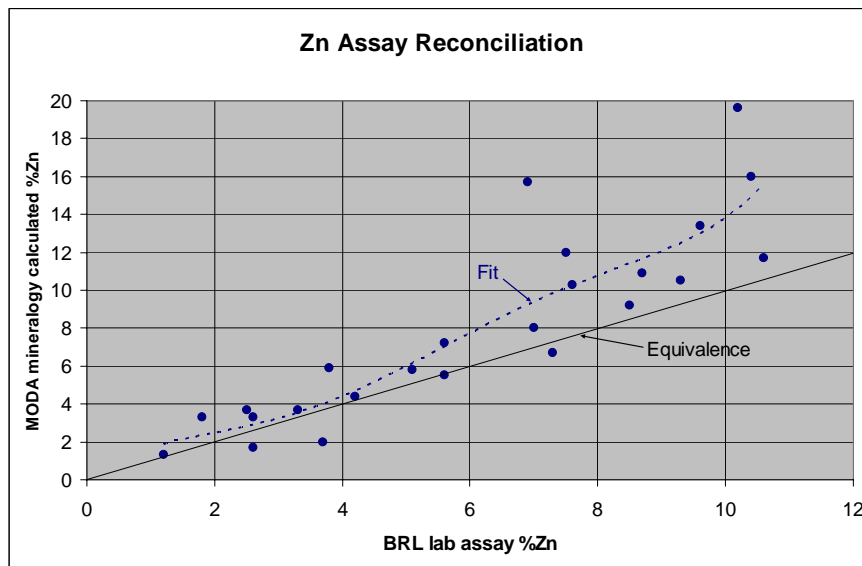
Composite D020



Composite D022

Miscellaneous comments

- Possible *cassiterite* was observed in D007 and D022
- Oxidised grinding media steel was observed in all samples
- The Zn grades as calculated from the mineralogy are in excess of the laboratory assay for most fractions, especially >5%Zn. Assuming laboratory assays are correct, this suggests the sphalerite present may contain a contaminant which lowers the Zn content. Assaying the concentrate for likely contaminants, e.g. Mn, Cd, In, Hg may assist, but microprobing would be the ideal solution



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08.08.08



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+212µm	5 % by weight
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Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
1.4	3.0	2.1	0.6	0.0	0.0	30.9	61.9	100
18	25	32	5	0	2	69	91	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	2.90	0.00	1.4	2.0	12	0.0	6.4
Actual		0.01	1.0	3.7		0.0	6.1

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	0	7	0	0	65	65
Binary	14	74	42	19	0	30	23
Ternary	8	26	42	53	20	2	11
Quat.y+	78	0	10	29	80	2	2
# Grains	8	12	13	10	0	45	68 1.56

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	50	50
MtHe	0		42	0	0	51	7
Sp	0	0		23	0	45	31
Gn	0	10	50		0	10	30
Cp	0	0	0	0		0	0
Tc	20	30	3	10	0		37
Ga	6	13	13	0	0	67	

TOTAL ASSOCIATION MATRIX

of all

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		2	78	84	0	21	79
MtHe	4		51	17	0	40	14
Sp	8	8		55	7	52	26
Gn	17	21	86		3	51	38
Cp	0	80	100	100		60	0
Tc	9	9	3	8	0		13
Ga	6	7	11	7	0	19	

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc		
Py	0	0	0	0	0	7	7	8	78
MtHe	0	0	31	0	0	38	5	26	0
Sp	7	0	0	10	0	19	13	42	10
Gn	0	0	2	9	0	2	6	53	29
Cp	0	0	0	0	0	0	0	20	80
Tc	65	6	9	1	3	0		11	2
Ga	65	1	3	3	0	0	15		11

PARTICLE MINERALOGY REPORT

GJMCA 04.08.08

-212µm+150µm	9 % by weight
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Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
1.4	3.2	8.0	0.8	0.0	0.0	29.1	57.6	100
16	32	43	10	0	7	68	87	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	2.99	0.01	1.7	7.2	17	0.0	6.4
Actual		0.01	1.6	5.6		0.0	7.8

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	71	0	24	0	0	62	70
Binary	11	56	36	35	0	26	25
Ternary	11	44	20	34	8	10	6
Quat.y+	8	0	20	31	92	2	0
# Grains	9	10	16	9	1	43	66 1.54

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	100
MtHe	0		0	0	0	75	25
Sp	7	2		31	0	45	15
Gn	0	3	50		0	3	44
Cp	0	0	0	0		0	0
Tc	0	22	22	0	0		56
Ga	20	18	0	7	0	55	

TOTAL ASSOCIATION MATRIX

of all

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		1	8	13	0	11	27
MtHe	2		41	37	0	47	17
Sp	10	17		42	8	36	27
Gn	11	24	80		13	28	44
Cp	0	75	92	98		10	21
Tc	3	8	17	5	0		21
Ga	10	6	2	3	0	16	

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc		
Py	71	0	0	0	0	0	11	11	8
MtHe	0	0	0	0	0	0	42	14	44
Sp	24	3	1	11	0	16	5	20	20
Gn	0	0	1	17	0	1	15	34	31
Cp	0	0	0	0	0	0	0	8	92
Tc	62	0	6	6	0	0		15	10
Ga	70	5	4	0	2	0	13		6

**Explorer 108 Comp D001
August 2008**

-150µm+106µm	14 % by weight
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Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
0.4	12.4	19.9	2.3	0.0	0.0	24.2	40.8	100
9	57	58	14	0	1	64	78	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	3.43	0.01	4.4	15.7	39	0.0	14.7
Actual		0.02	2.2	6.9		0.0	9.3

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	56	29	41	0	50	69
Binary	0	28	43	40	0	41	24
Ternary	8	16	23	10	100	6	7
Quat.y+	92	0	5	10	0	3	0
# Grains	4	22	28	12	2	38	52 1.58

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		27	0	0	16	57
Sp	0	2		63	0	13	21
Gn	0	7	68		0	2	24
Cp	0	0	0	0		0	0
Tc	0	24	17	9	0		49
Ga	0	31	7	0	0	62	

TOTAL ASSOCIATION MATRIX

of all

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		3	92	92	0	97	8
MtHe	1		16	0	0	18	24
Sp	2	9		46	6	18	23
Gn	1	13	46		1	9	19
Cp	0	0	100	75		0	25
Tc	3	14	12	8	0		25
Ga	5	12	4	0	0	18	

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc		
Py	0	0	0	0	0	0	0	8	92
MtHe	56	0	8	0	0	4	16	16	0
Sp	29	0	1	27	0	6	9	23	5
Gn	41	0	3	27	0	1	9	10	10
Cp	0	0	0	0	0	0	0	100	0
Tc	50	0	10	7	4	0		20	6
Ga	69	0	7	2	0	0	15		7

-106µm+75µm 14 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
2.0	8.7	12.4	1.7	0.0	0.0	17.8	57.5	100
40	79	65	16	0	4	78	86	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	3.24	0.00	3.5	10.3	31	0.0	12.6
Actual		0.02	2.7	7.6		0.0	9.6

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	58	53	32	0	84	84
Binary	52	28	29	34	0	15	9
Ternary	47	11	14	29	0	1	7
Quat.y+	0	3	4	5	100	0	0
# Grains	5	11	21	12	0	23	67 1.39

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	90	0	0	10
MtHe	0		0	0	0	0	100
Sp	0	1		44	0	16	40
Gn	2	26	69		0	2	0
Cp	0	0	0	0		0	0
Tc	0	0	53	0	0		47
Ga	37	30	19	0	0	14	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	45	50	0	45	7
MtHe	0		14	3	0	0	42
Sp	4	4		27	2	6	27
Gn	5	17	55		3	1	27
Cp	0	44	100	100		0	100
Tc	1	0	9	0	0		8
Ga	5	3	8	7	0	2	

of all

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat	
		Py	MtHe	Sp	Gn	Cp	Tc			Ga
Py	0		0	0	47	0	0	5	47	0
MtHe	58	0		0	0	0	0	28	11	3
Sp	53	0	0		13	0	4	11	14	4
Gn	32	1	9	23		0	1	0	29	5
Cp	0	0	0	0	0		0	0	0	100
Tc	84	0	0	8	0	0		7	1	0
Ga	84	3	3	2	0	0	1		7	0

PARTICLE MINERALOGY REPORT

GJMcA 05.08.08

-75µm+53µm 11 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
0.5	8.3	14.5	2.5	0.0	0.0	19.5	54.8	100
22	82	76	32	0	6	78	88	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	3.26	0.00	5.0	12.0	40	0.0	11.0
Actual		0.03	3.3	7.5		0.0	9.1

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	85	66	54	0	77	84
Binary	11	7	23	34	83	21	14
Ternary	0	8	10	9	17	2	2
Quat.y+	89	0	2	4	0	0	0
# Grains	2	10	18	11	0	25	62 1.28

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	100
MtHe	0		0	0	0	0	9 91
Sp	0	20		42	19	9	10
Gn	1	20	24		0	25	30
Cp	0	0	80	0		0	20
Tc	0	23	10	0	0		67
Ga	12	6	3	24	0	54	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	89	89	0	0	100
MtHe	0		8	0	0	1	15
Sp	6	6		20	5	4	8
Gn	7	7	20		0	12	16
Cp	0	17	83	0		0	17
Tc	0	5	4	2	0		14
Ga	2	1	2	5	0	8	

of all

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat	
		Py	MtHe	Sp	Gn	Cp	Tc			Ga
Py	0		0	0	0	0	0	11	0	89
MtHe	85	0		0	0	0	1	6	8	0
Sp	66	0	5		10	4	2	2	10	2
Gn	54	0	7	8		0	8	10	9	4
Cp	0	0	0	67	0		0	17	17	0
Tc	77	0	5	2	0	0		14	2	0
Ga	84	2	1	0	3	0	8		2	0

Explorer 108 Comp D001 August 2008

-53µm+20µm 21 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
3.0	4.0	9.6	3.9	0.0	0.0	28.0	51.7	100
98	99	90	64	0	0	87	91	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	3.22	0.00	8.0	8.0	57	0.0	7.8
Actual		0.04	3.9	7.0		0.0	7.7

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	68	76	86	78	0	86	91
Binary	32	24	14	22	0	11	7
Ternary	0	0	0	0	0	3	2
Quat.y+	0	0	0	0	0	0	0
# Grains	3	4	13	7	0	32	57 1.16

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	100	0	0	0
MtHe	0		0	0	0	0	100
Sp	1	0		76	0	13	11
Gn	1	0	53		0	0	46
Cp	0	0	0	0		0	0
Tc	0	0	0	0	0		100
Ga	0	1	22	0	0	76	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	32	0	0	0
MtHe	0		0	0	0	0	24
Sp	0	0		11	0	2	2
Gn	0	0	12		0	0	10
Cp	0	0	0	0		0	0
Tc	0	0	3	0	0		14
Ga	0	0	3	0	0	7	

of all

DISTRIBUTION MATRIX

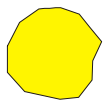
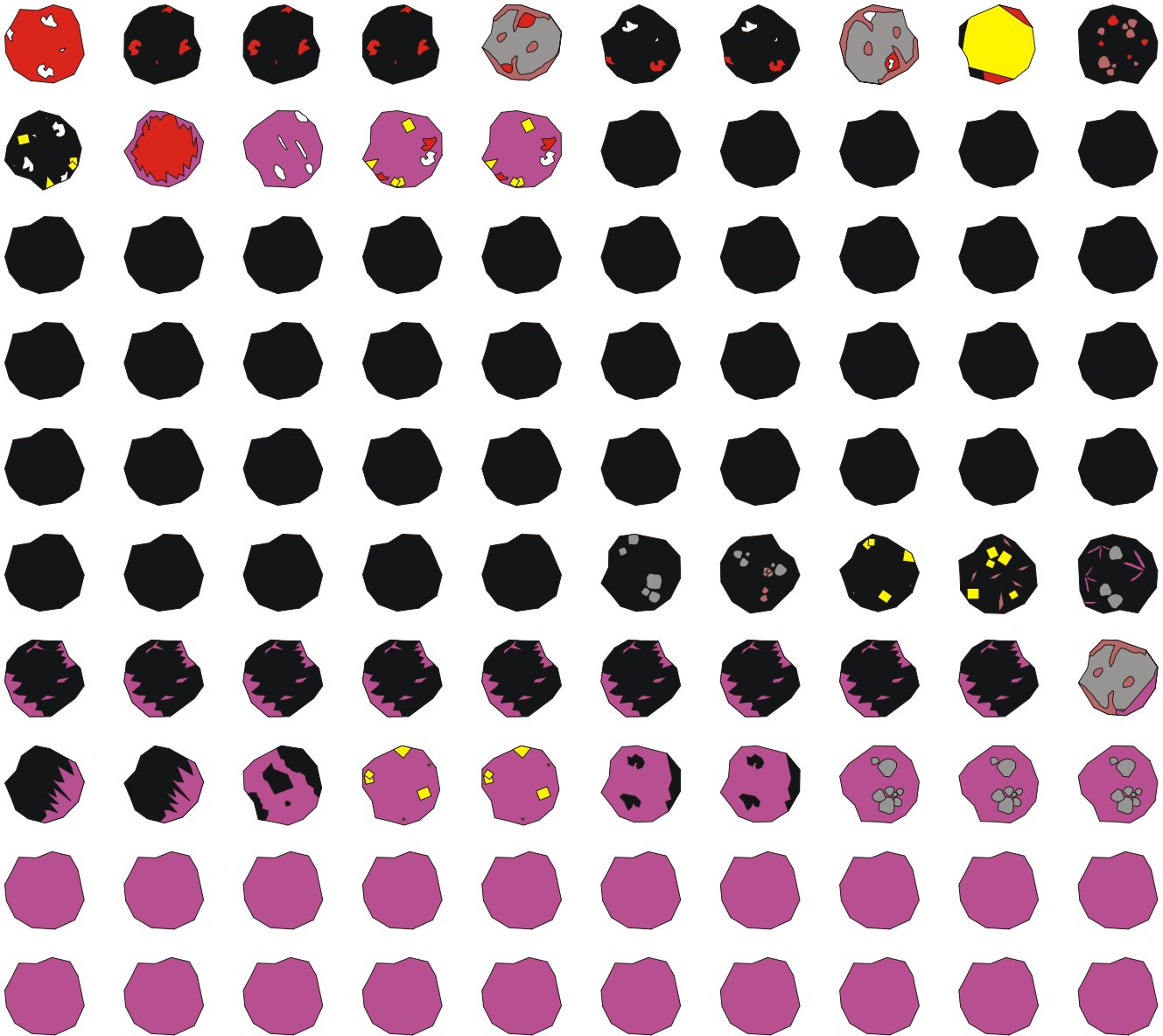
	Free	Binary						Tern	Quat	
		Py	MtHe	Sp	Gn	Cp	Tc			Ga
Py	68		0	0	32	0	0	0	0	0
MtHe	76	0		0	0	0	0	0	24	0
Sp	86	0	0		11	0	2	2	0	0
Gn	78	0	0	12		0	0	10	0	0
Cp	0	0	0	0	0		0	0	0	0
Tc	86	0	0	0	0	0		11	3	0
Ga	91	0	0	2	0	0	6		2	0

Burnie Research Lab - Westgold Testwork

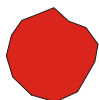
Explorer 108 Comp
D001

+212µm

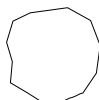
August 2008



Pyrite



Sphalerite



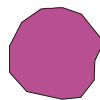
Galena



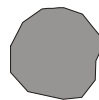
Chalcopyrite



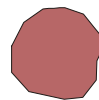
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



McArthur Ore Deposit Assessments Pty Ltd

ABN 66 642 590 245

Gary J McArthur PhD FAusIMM MMICA MSEG

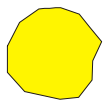
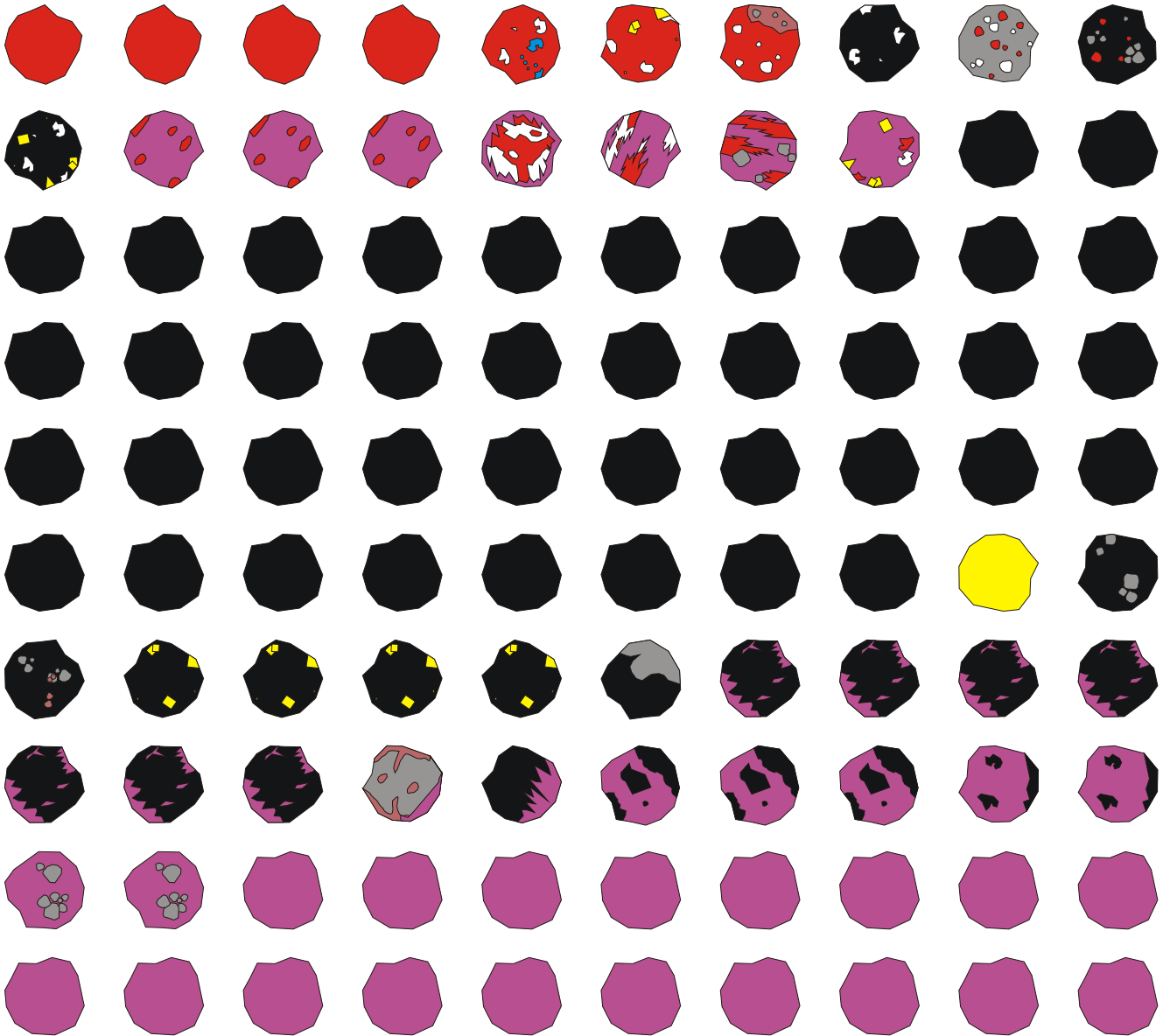
Suite 6, 1st Floor, Brownell Place, 11 Wilson St, (PO Box 1303) Burnie TAS 7320 AUSTRALIA
Tel (03) 6431 1701 Fax (03) 6431 1278 Mobile 0419 367240 email gary@modapl.com.au

Burnie Research Lab - Westgold Testwork

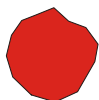
Explorer 108 Comp
D001

-212µm+150µm

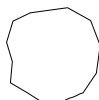
August 2008



Pyrite



Sphalerite



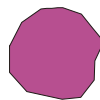
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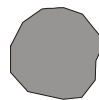
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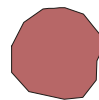
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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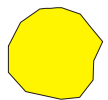
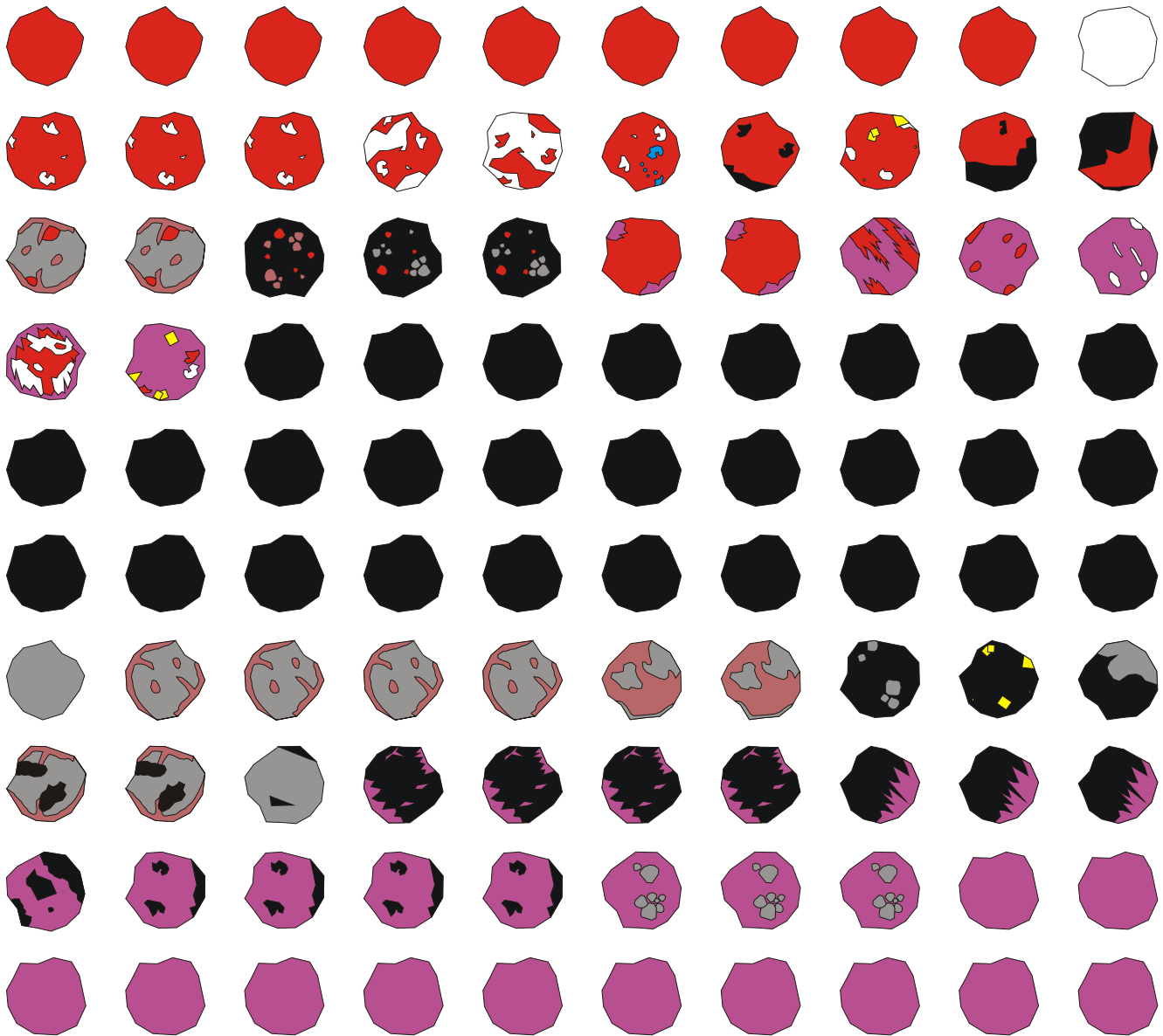
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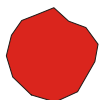
**Explorer 108 Comp
D001**

-150µm+106µm

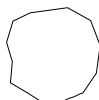
August 2008



Pyrite



Sphalerite



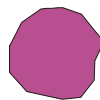
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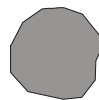
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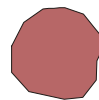
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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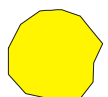
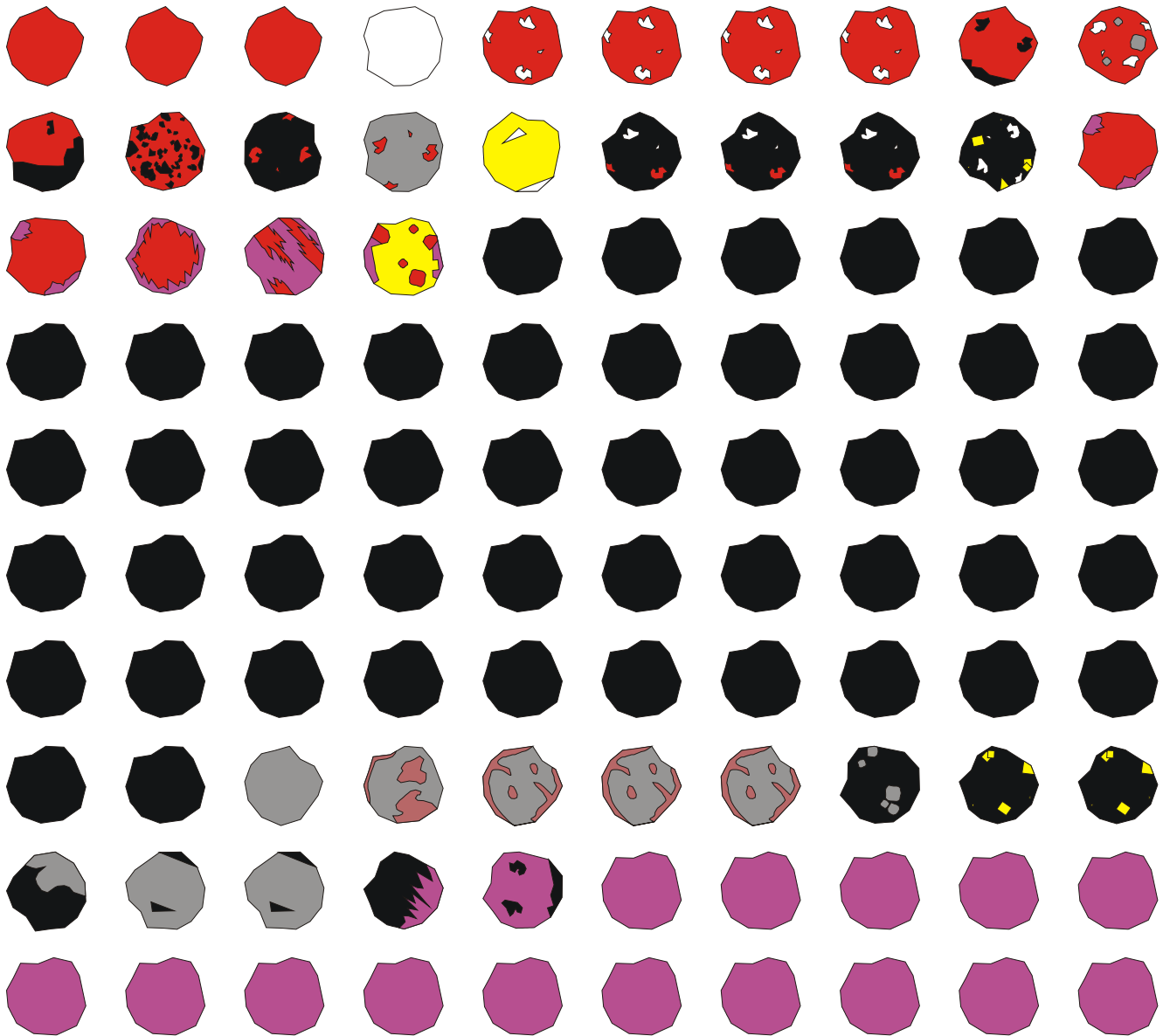
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**Explorer 108 Comp
D001**

-106µm+75µm

August 2008



Pyrite



Sphalerite



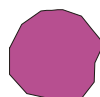
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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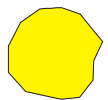
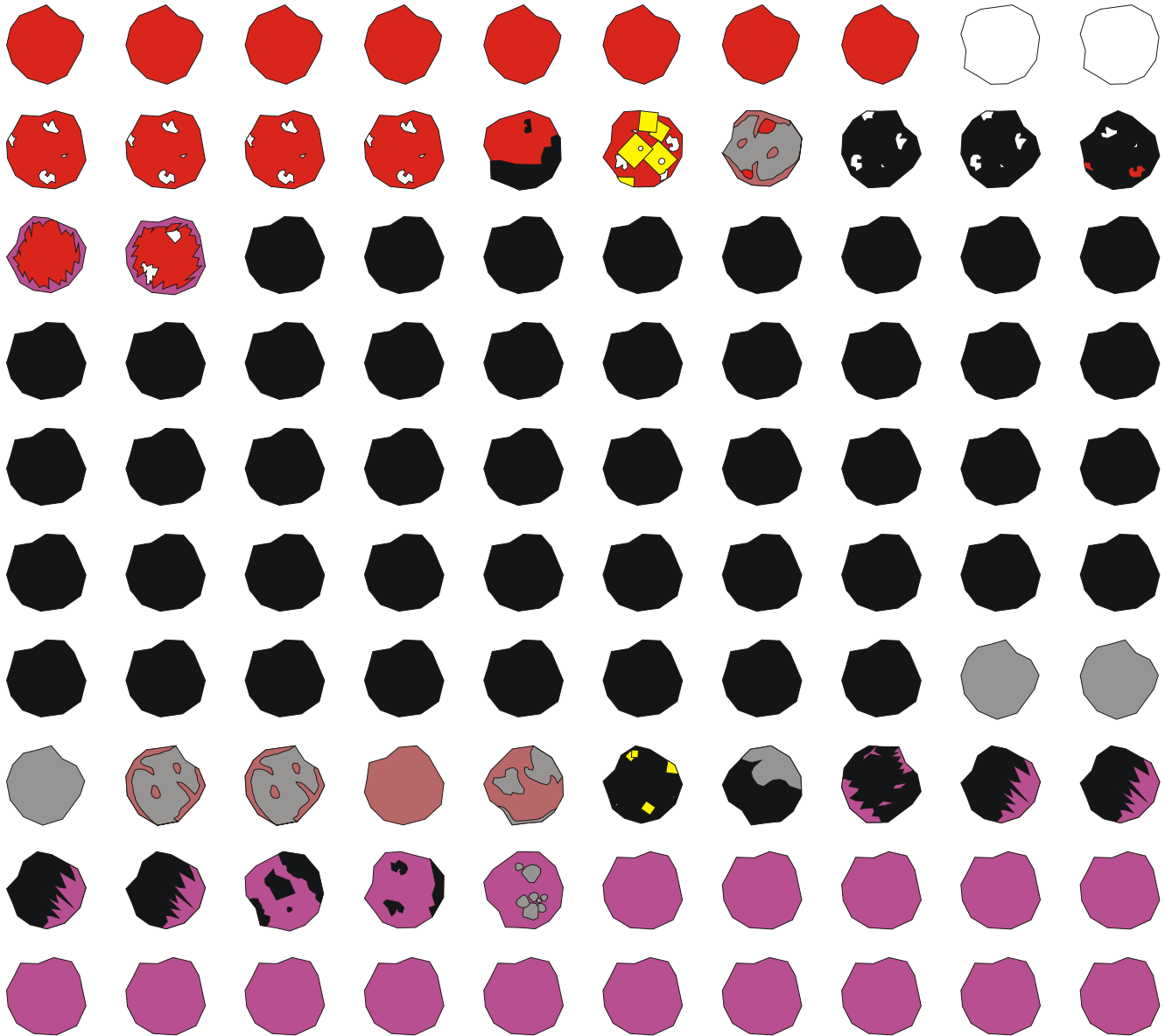
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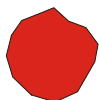
Explorer 108 Comp
D001

-75µm+53µm

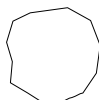
August 2008



Pyrite



Sphalerite



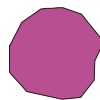
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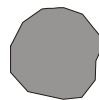
Chalcopyrite



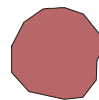
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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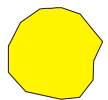
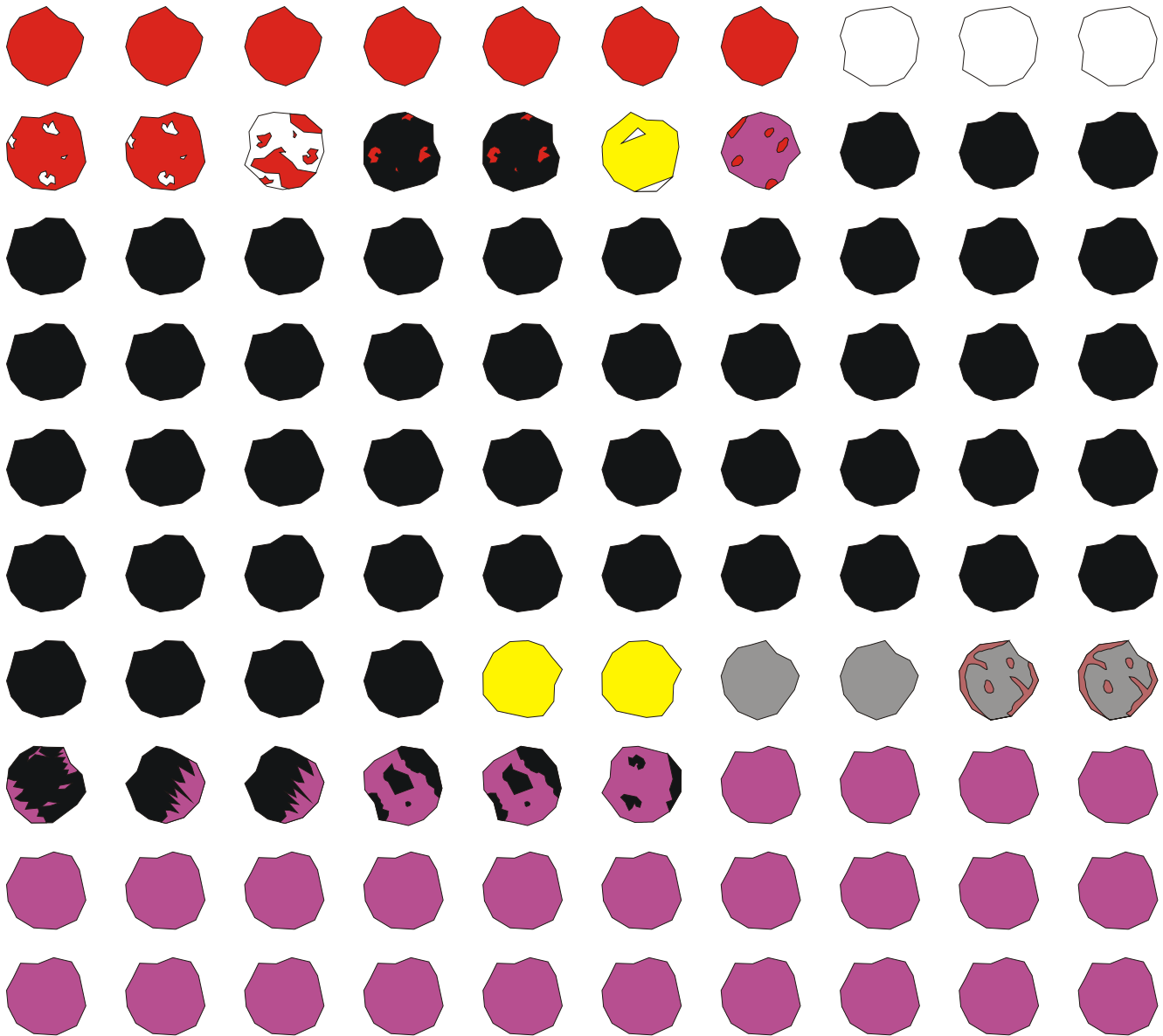
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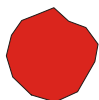
**Explorer 108 Comp
D001**

-53µm+20µm

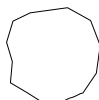
August 2008



Pyrite



Sphalerite



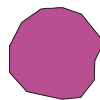
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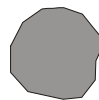
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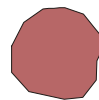
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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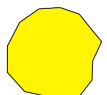
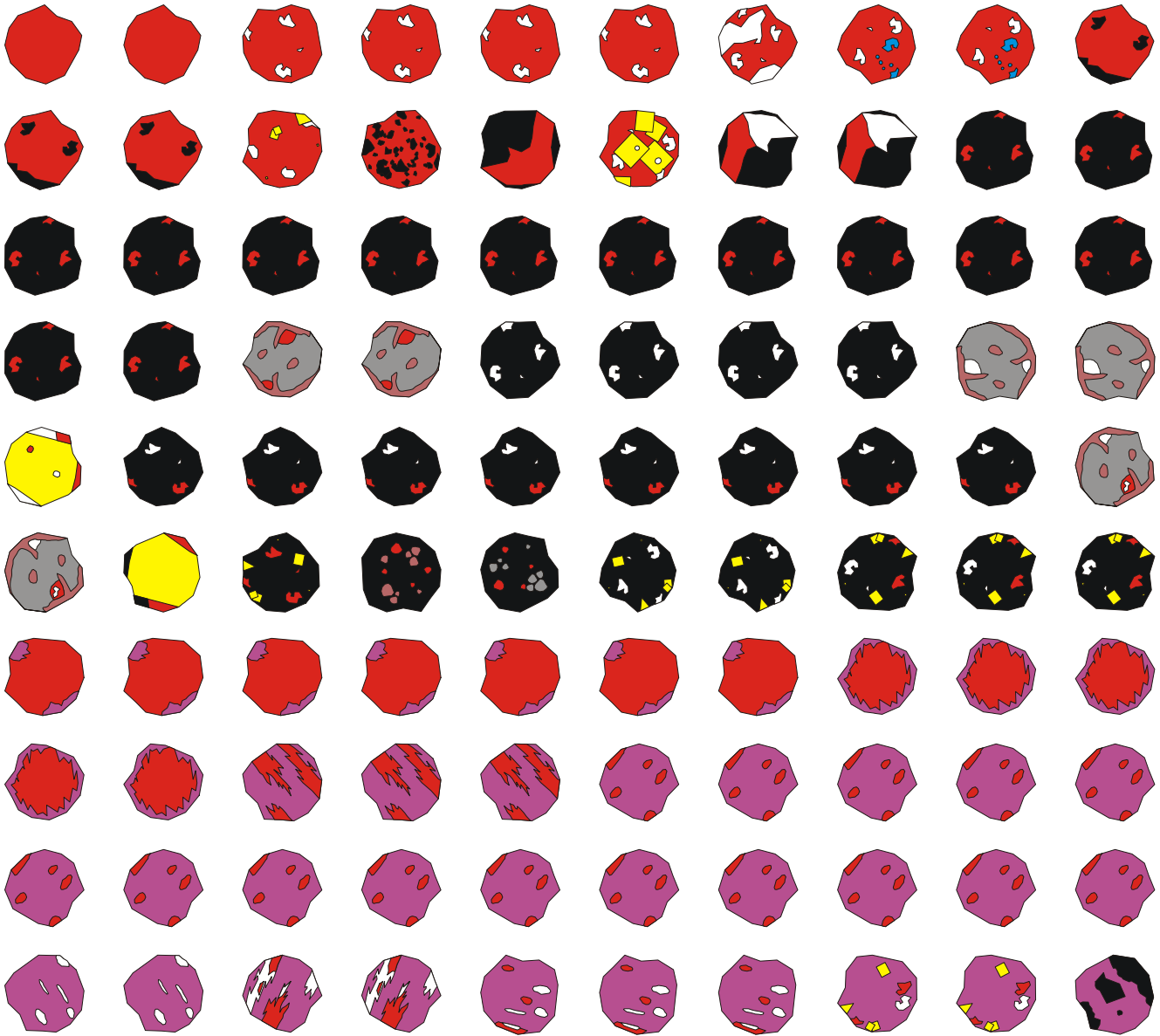
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Explorer 108 Comp
D001 SpGnCpTe SCAN

+212µm

August 2008



Pyrite



Sphalerite



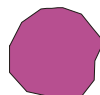
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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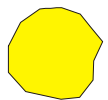
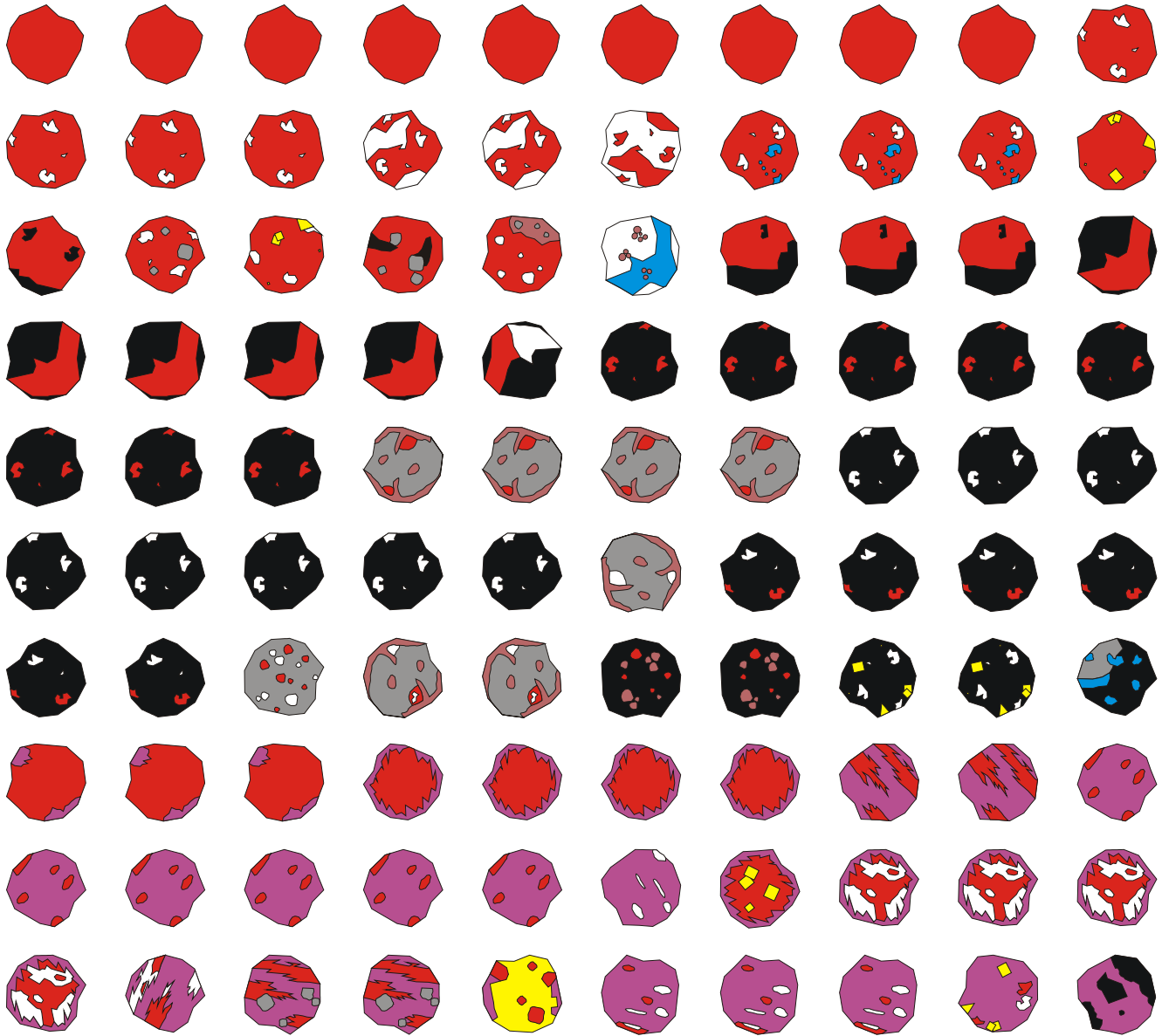
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Burnie Research Lab - Westgold Testwork

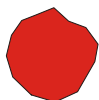
Explorer 108 Comp
D001 SpGnCpTe SCAN

-212µm+150µm

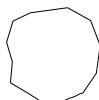
August 2008



Pyrite



Sphalerite



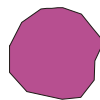
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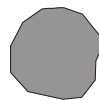
Chalcopyrite



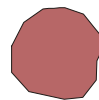
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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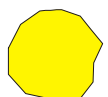
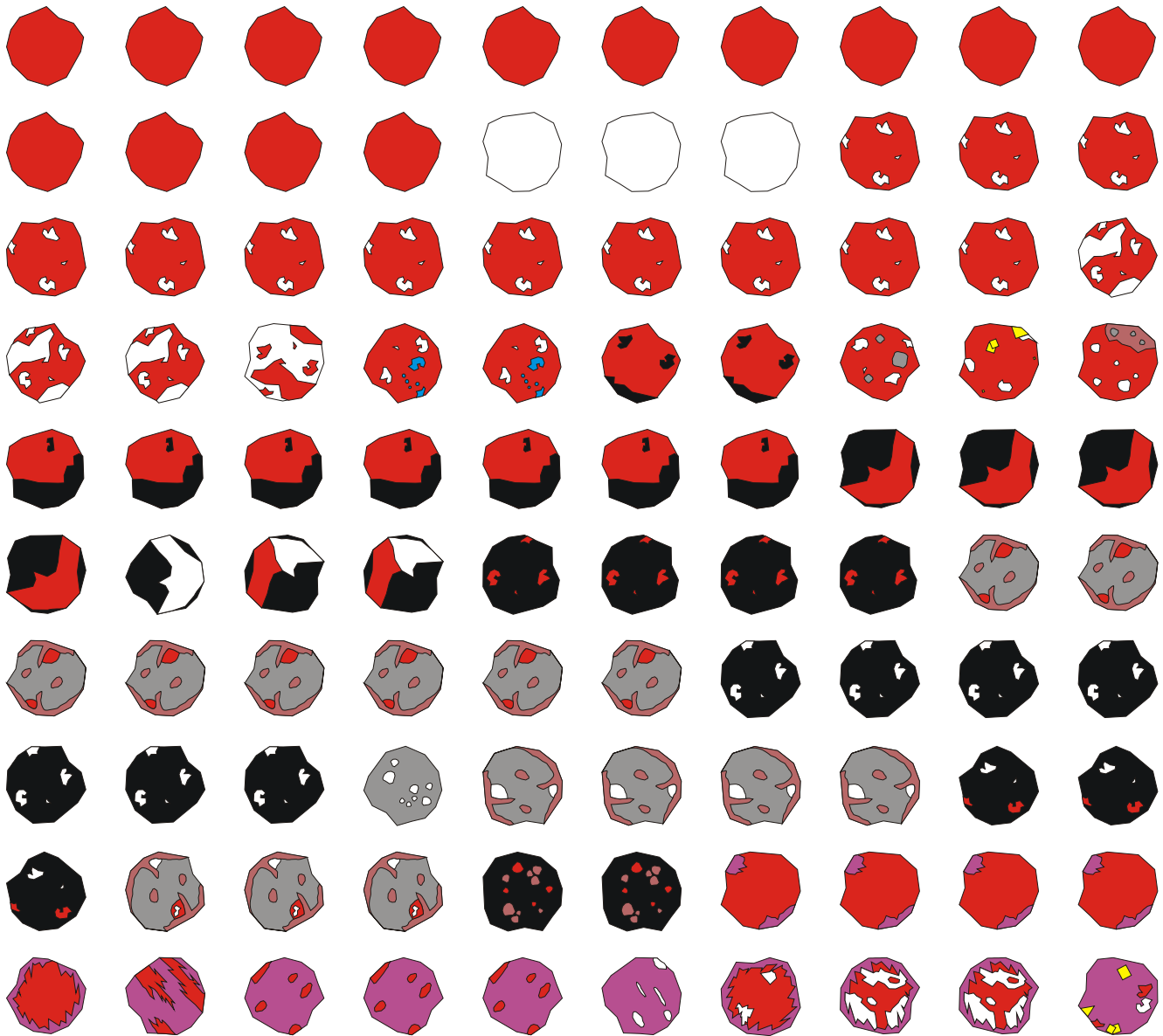
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Burnie Research Lab - Westgold Testwork

**Explorer 108 Comp
D001 SpGnCpTe SCAN**

-150µm+106µm

August 2008



Pyrite



Sphalerite



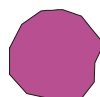
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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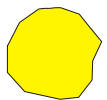
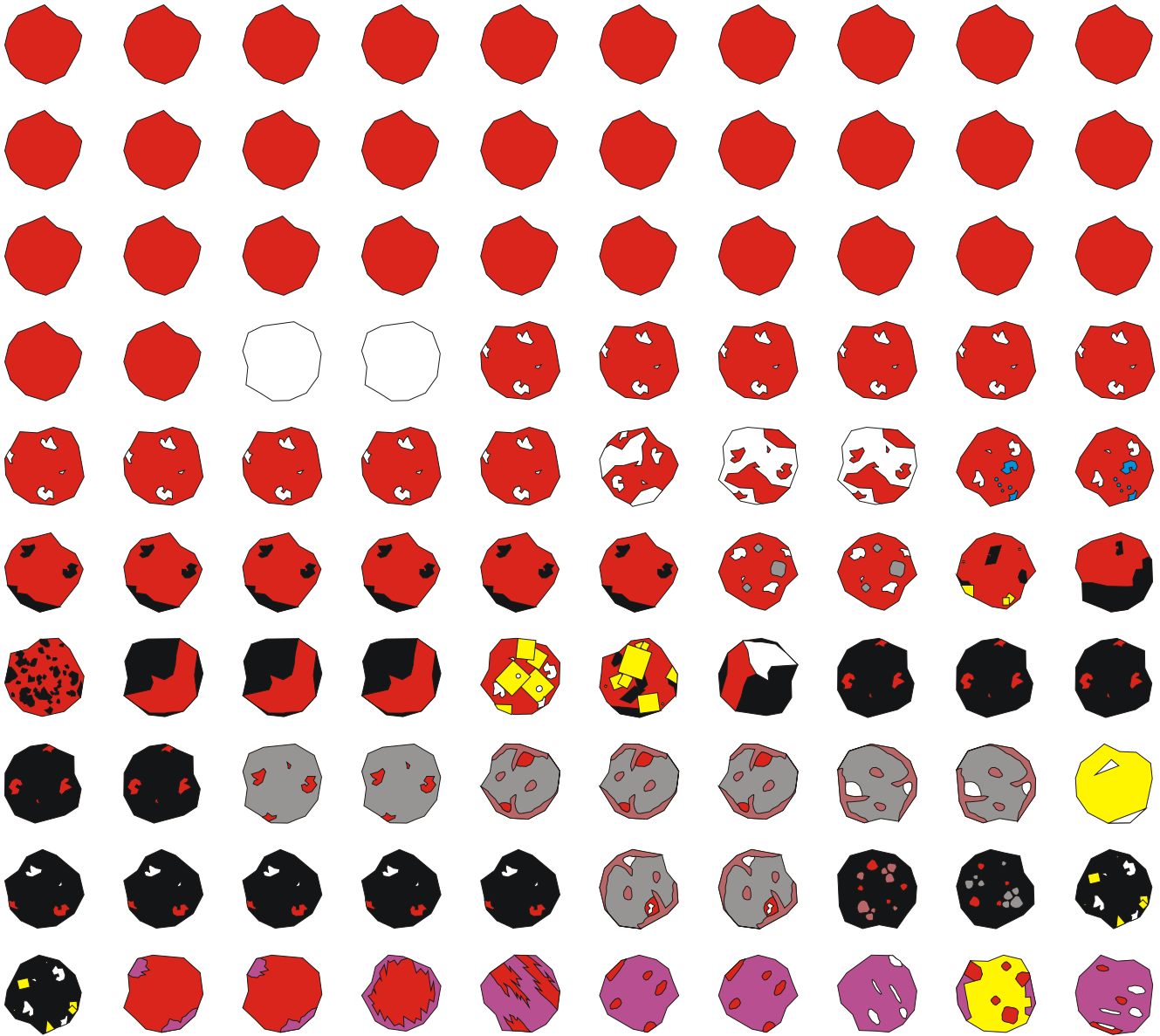
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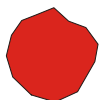
**Explorer 108 Comp
D001 SpGnCpTe SCAN**

-106µm+75µm

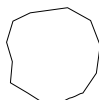
August 2008



Pyrite



Sphalerite



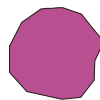
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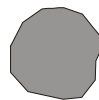
Chalcopyrite



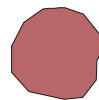
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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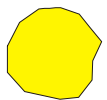
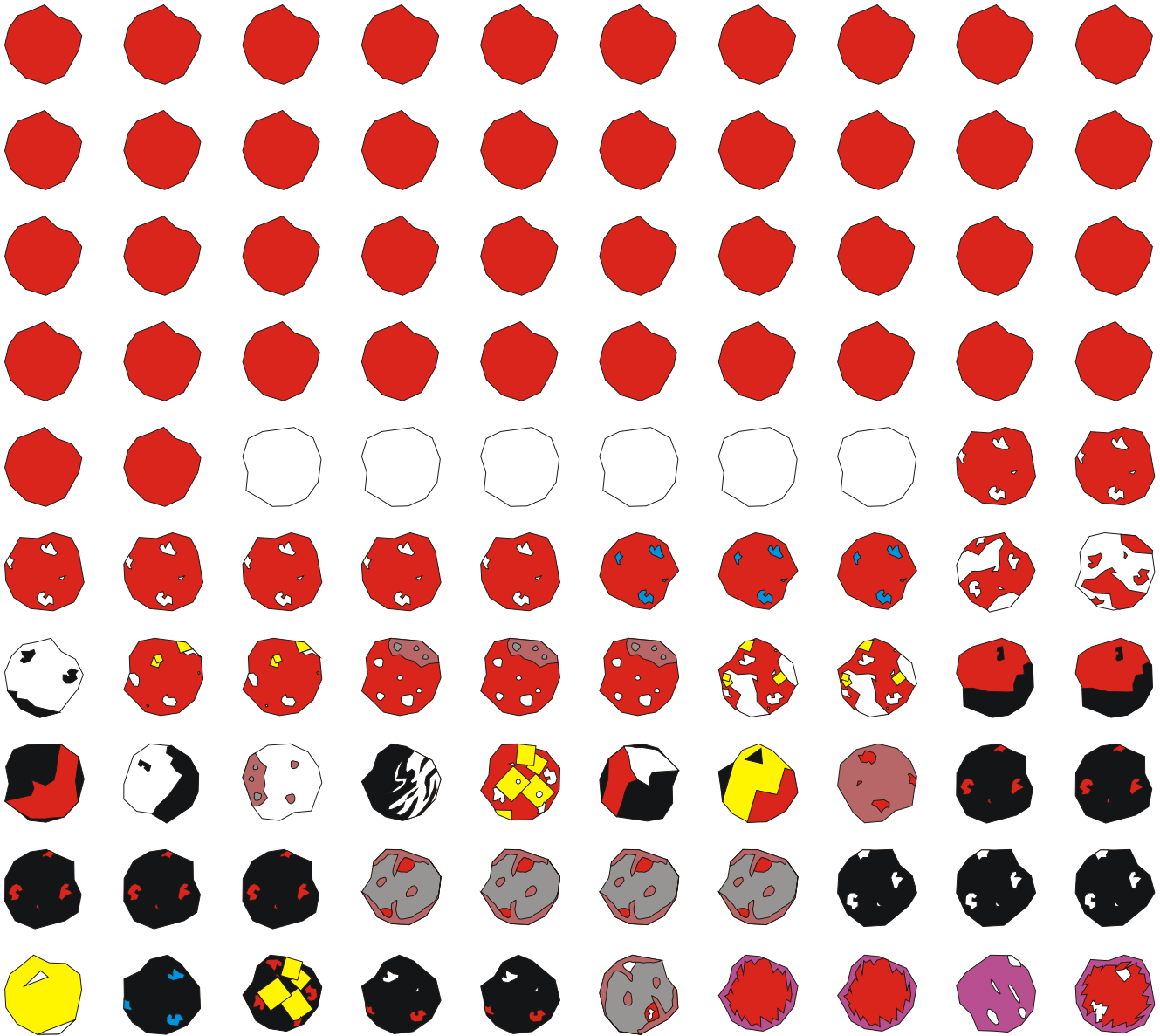
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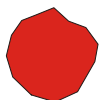
**Explorer 108 Comp
D001 SpGnCpTe SCAN**

-75µm+53µm

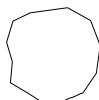
August 2008



Pyrite



Sphalerite



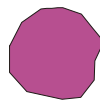
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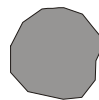
Chalcopyrite



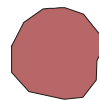
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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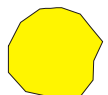
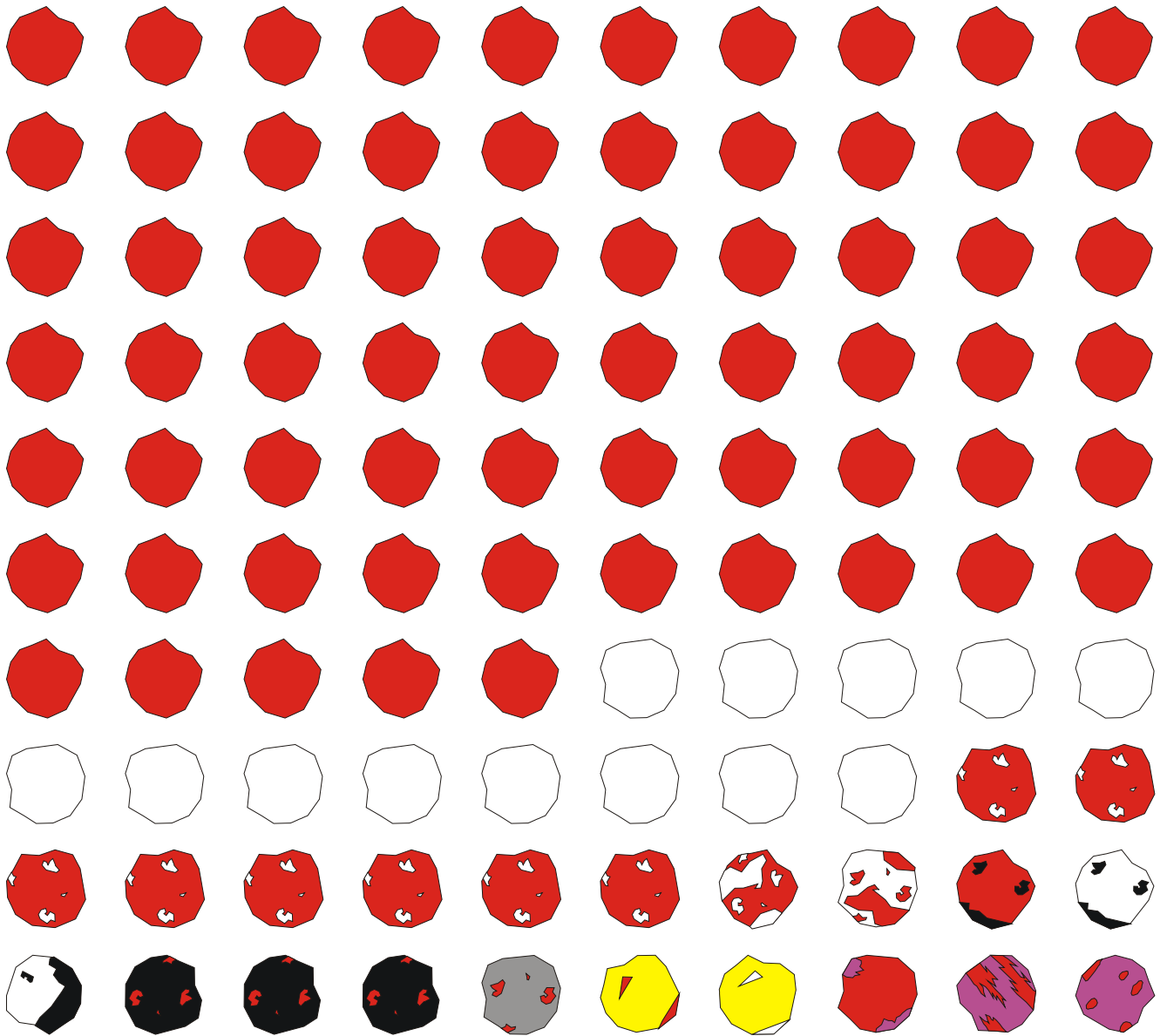
Suite 6, 1st Floor, Brownell Place, 11 Wilson St, (PO Box 1303) Burnie TAS 7320 AUSTRALIA
Tel (03) 6431 1701 Fax (03) 6431 1278 Mobile 0419 367240 email gary@modapl.com.au

Burnie Research Lab - Westgold Testwork

Explorer 108 Comp
D001 SpGnCpTe SCAN

-53µm+20µm

August 2008



Pyrite



Sphalerite



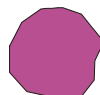
Galena



Chalcopyrite



Tetrahedrite



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+212µm	3 % by weight
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Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
1.2	2.7	3.5	0.5	0.0	0.2	13.1	78.8	100
7	34	31	6	0	3	69	91	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	2.90	0.12	1.1	3.3	11	0.0	6.3
Actual		0.07	0.8	2.6		0.0	6.8

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	0	17	0	0	46	65
Binary	55	70	37	30	36	40	25
Ternary	33	0	38	44	40	7	9
Quat.y+	13	30	8	27	24	8	2
# Grains	16	8	13	11	7	19	87 1.61

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	100
MtHe	0		84	0	0	11	5
Sp	0	7		53	0	20	20
Gn	0	0	44		0	0	56
Cp	0	0	0	0		0	100
Tc	0	35	0	0	0		65
Ga	48	5	9	15	10	13	

TOTAL ASSOCIATION MATRIX

of all

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		13	0	33	25	0	100
MtHe	2		87	29	2	36	7
Sp	4	15		54	6	26	36
Gn	8	4	81		1	26	79
Cp	50	26	7	33		0	98
Tc	0	18	14	7	0		37
Ga	19	3	6	9	8	5	

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc		
Py	0	0	0	0	0	0	55	33	13
MtHe	0	0	59	0	0	7	4	0	30
Sp	17	0	3	20	0	7	7	38	8
Gn	0	0	0	13	0	0	16	44	27
Cp	0	0	0	0	0	0	36	40	24
Tc	46	0	14	0	0	0	26	7	8
Ga	65	12	1	2	4	2	3	9	2

PARTICLE MINERALOGY REPORT

GJMCA 05.08.08

-212µm+150µm	7 % by weight
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Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
6.2	11.3	6.7	1.0	0.0	0.6	14.1	60.2	100
41	63	37	7	0	14	61	85	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	3.30	0.26	2.0	5.5	23	0.0	18.6
Actual		0.19	1.5	5.6		0.0	9.1

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	64	53	22	0	0	50	62
Binary	14	25	29	30	9	25	23
Ternary	21	19	45	51	73	25	12
Quat.y+	0	4	5	19	18	0	3
# Grains	15	18	20	17	4	23	71 1.68

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	100
MtHe	0		0	30	0	25	45
Sp	12	12		12	0	29	35
Gn	4	35	4		0	17	39
Cp	50	0	0	0		0	50
Tc	0	37	31	23	0		9
Ga	15	12	13	27	7	26	

TOTAL ASSOCIATION MATRIX

of all

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	9	9	0	6	32
MtHe	0		22	11	0	12	28
Sp	6	12		42	3	22	49
Gn	19	16	47		20	11	76
Cp	18	0	64	32		0	95
Tc	16	12	13	18	0		17
Ga	10	8	13	15	4	7	

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc		
Py	64	0	0	0	0	0	14	21	0
MtHe	53	0	0	8	0	6	11	19	4
Sp	22	3	4	3	0	8	10	45	5
Gn	0	1	10	1	0	5	12	51	19
Cp	0	5	0	0	0	0	5	73	18
Tc	50	0	9	8	6	0	2	25	0
Ga	62	3	3	3	6	2	6	12	3

**Explorer 108 Comp D007
August 2008**

-150µm+106µm	14 % by weight
--------------	----------------

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
3.6	15.4	11.7	1.5	0.0	0.9	7.9	59.0	100
40	73	52	9	0	20	79	92	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	3.44	0.39	2.9	9.2	28	0.0	20.7
Actual		0.22	2.4	8.5		0.0	13.8

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	55	52	38	0	0	89	80
Binary	29	33	42	54	51	10	13
Ternary	6	13	15	43	36	1	7
Quat.y+	10	2	5	3	13	0	0
# Grains	9	21	20	16	3	10	64 1.43

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	90	0	0	10
MtHe	0		34	29	0	18	20
Sp	0	9		40	0	23	28
Gn	2	28	47		5	5	14
Cp	0	20	0	72		0	8
Tc	0	12	0	0	0		87
Ga	24	26	22	24	0	4	

TOTAL ASSOCIATION MATRIX

of all

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		14	10	37	5	0	5
MtHe	8		21	13	6	6	13
Sp	4	8		35	5	15	20
Gn	6	19	67		18	19	20
Cp	7	35	33	78		0	9
Tc	0	1	1	1	0		9
Ga	6	3	7	9	2	1	

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc		
Py	55	0	0	26	0	0	3	6	10
MtHe	52	0	11	9	0	6	7	13	2
Sp	38	0	4	17	0	10	12	15	5
Gn	0	1	15	25	3	3	8	43	3
Cp	0	0	10	0	37	0	4	36	13
Tc	89	0	1	0	0	0	9	1	0
Ga	80	3	3	3	3	0	1	7	0



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-106µm+75µm 16 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
2.9	20.8	27.9	3.1	0.0	0.9	7.6	36.9	100
41	87	64	22	0	20	75	74	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	3.85	0.33	5.2	19.6	49	0.0	23.0
Actual		0.32	3.5	10.2		0.0	17.0

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	67	49	25	0	79	79
Binary	64	24	38	67	62	17	15
Ternary	33	5	10	7	38	3	4
Quat.y+	3	4	2	1	0	0	2
# Grains	7	24	41	16	5	10	50

1.53

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	51	0	0	0	49
MtHe	0		10	0	54	0	36
Sp	6	9		59	2	4	20
Gn	0	1	74		17	0	7
Cp	0	44	37	4		0	15
Tc	0	0	12	0	0		88
Ga	20	4	61	0	0	0	16

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		1	69	36	0	0	33
MtHe	3		11	4	13	0	14
Sp	4	9		31	1	3	17
Gn	2	3	56		13	0	11
Cp	32	30	26	37		0	12
Tc	0	0	5	3	0		15
Ga	5	2	16	4	2	2	

of all

DISTRIBUTION MATRIX

	Free	Binary							Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc	Ga		
Py	0		0	33	0	0	0	31	33	3
MtHe	67	0		2	0	13	0	9	5	4
Sp	49	2	3		23	1	2	8	10	2
Gn	25	0	1	50		12	0	5	7	1
Cp	0	0	28	23	2		0	9	38	0
Tc	79	0	0	2	0	0		15	3	0
Ga	79	3	1	9	0	0	2		4	2

PARTICLE MINERALOGY REPORT

GJMcA 06.08.08

-75µm+53µm 12 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
7.5	17.7	16.8	6.3	0.0	0.8	2.1	48.9	100
83	88	77	35	0	38	68	92	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	3.88	0.28	10.7	11.7	81	0.0	22.6
Actual		0.33	4.9	10.6		0.0	16.7

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	80	74	68	48	0	98	82
Binary	12	25	29	49	100	2	18
Ternary	8	1	3	3	0	0	0
Quat.y+	0	0	0	0	0	0	0
# Grains	9	20	22	19	4	3	53

1.30

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	78	0	0	22
MtHe	0		21	31	21	0	26
Sp	2	2		84	0	0	12
Gn	5	9	56		1	0	29
Cp	24	2	0	42		0	31
Tc	0	0	0	0	0		100
Ga	9	10	24	32	15	11	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		8	0	17	0	0	3
MtHe	1		5	9	5	0	7
Sp	1	1		27	2	0	5
Gn	4	6	29		1	0	15
Cp	24	2	0	42		0	31
Tc	0	0	0	0	0		2
Ga	2	2	4	6	3	2	

of all

DISTRIBUTION MATRIX

	Free	Binary							Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc	Ga		
Py	80		0	0	9	0	0	3	8	0
MtHe	74	0		5	8	5	0	7	1	0
Sp	68	1	1		24	0	0	3	3	0
Gn	48	2	4	28		0	0	14	3	0
Cp	0	24	2	0	42		0	31	0	0
Tc	98	0	0	0	0	0		2	0	0
Ga	82	2	2	4	6	3	2		0	0

**Explorer 108 Comp D007
August 2008**

-53µm+20µm 22 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
1.9	9.0	20.3	2.7	0.0	2.0	12.8	51.4	100
95	99	84	58	0	68	80	93	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	3.43	0.85	5.2	16.0	47	0.0	12.9
Actual		0.44	8.0	10.4		0.0	12.9

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	89	85	81	98	86	88
Binary	100	11	12	18	1	14	12
Ternary	0	0	3	1	1	0	0
Quat.y+	0	0	0	0	0	0	0
# Grains	2	9	26	5	2	16	55

1.15

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	50	50	0	0	0
MtHe	0		100	0	0	0	0
Sp	1	13		72	0	1	13
Gn	27	14	51		0	0	8
Cp	100	0	0	0		0	0
Tc	0	0	0	0	0		100
Ga	0	0	48	0	0	52	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	50	50	0	0	0
MtHe	0		11	0	0	0	0
Sp	0	2		11	2	0	3
Gn	5	3	10		0	0	2
Cp	1	0	1	1		0	0
Tc	0	0	0	0	0		14
Ga	0	0	6	0	0	6	

of all

DISTRIBUTION MATRIX

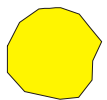
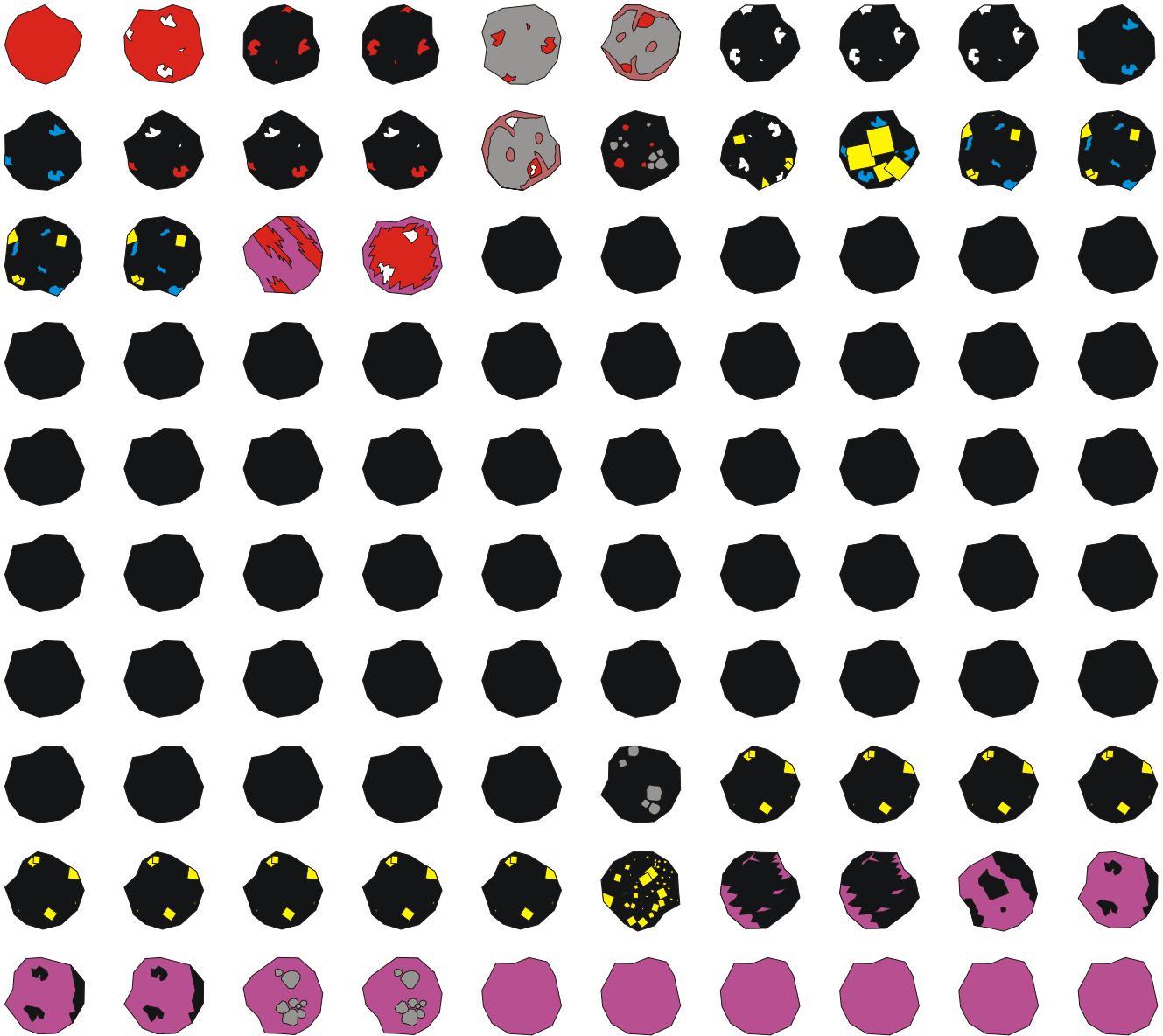
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		Py	MtHe	Sp	Gn	Cp	Tc	Ga		
Py	0		0	50	50	0	0	0	0	0
MtHe	89	0		11	0	0	0	0	0	0
Sp	85	0	2		9	0	0	2	3	0
Gn	81	5	3	9		0	0	1	1	0
Cp	98	1	0	0	0		0	0	1	0
Tc	86	0	0	0	0	0		14	0	0
Ga	88	0	0	6	0	0	6		0	0

Burnie Research Lab - Westgold Testwork

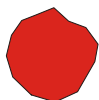
Explorer 108 Comp
D007

+212 μ m

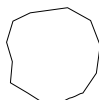
August 2008



Pyrite



Sphalerite



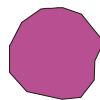
Galena



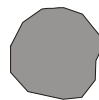
Chalcopyrite



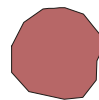
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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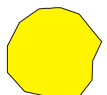
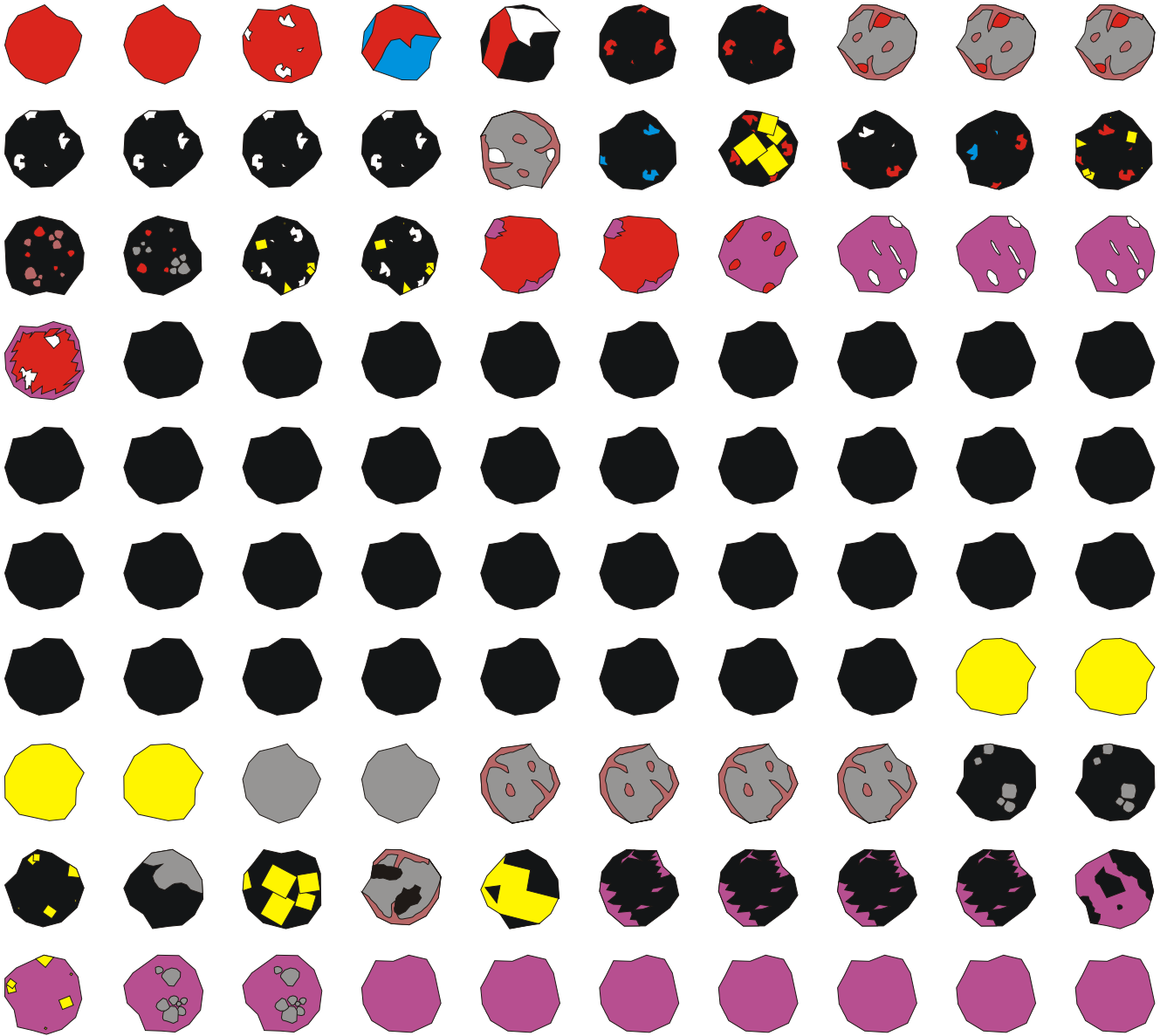
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Burnie Research Lab - Westgold Testwork

**Explorer 108 Comp
D007**

-212µm+150µm

August 2008



Pyrite



Sphalerite



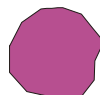
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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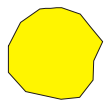
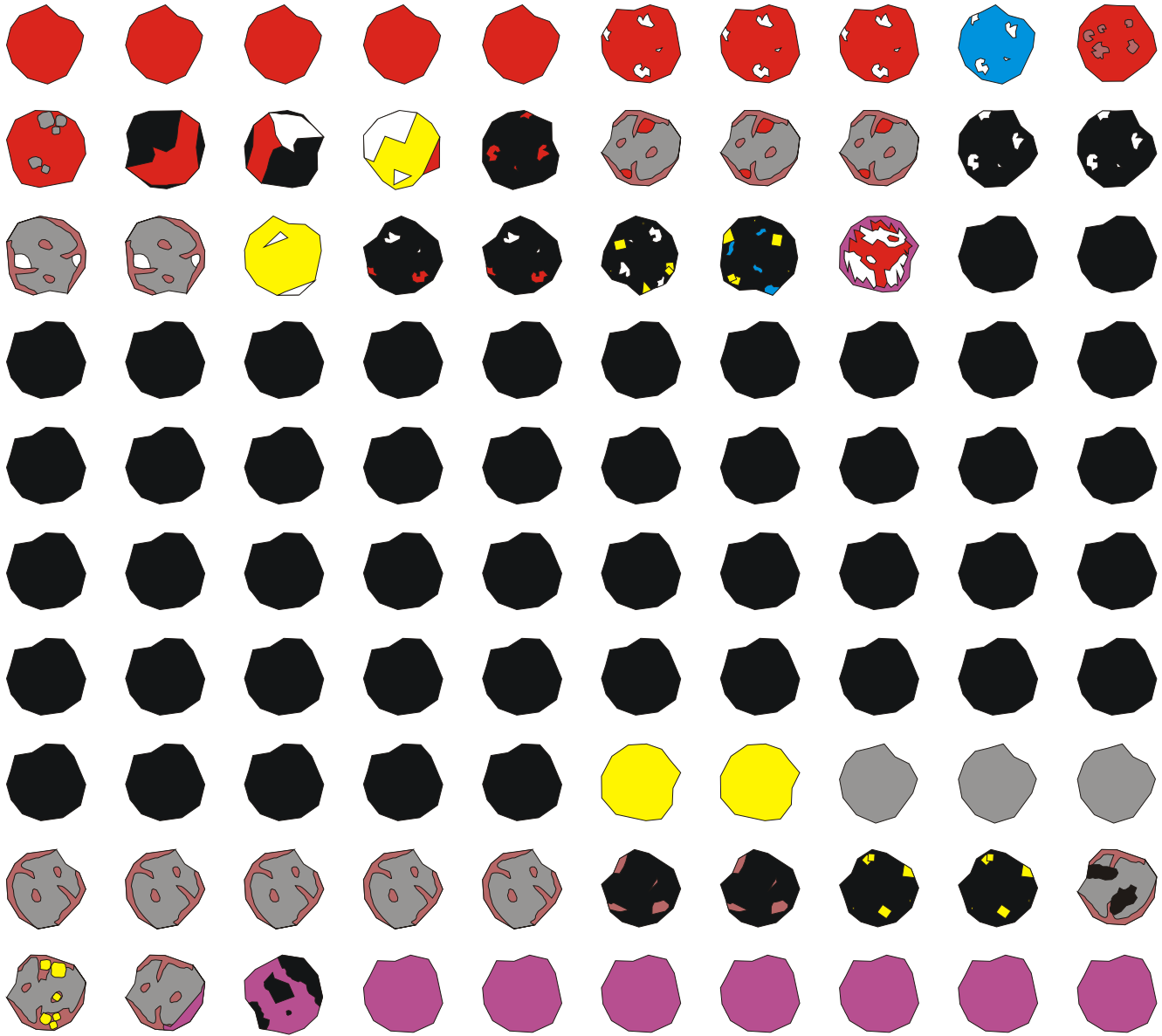
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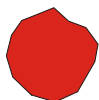
**Explorer 108 Comp
D007**

-150µm+106µm

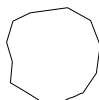
August 2008



Pyrite



Sphalerite



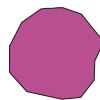
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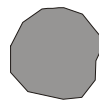
Chalcopyrite



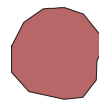
Tetrahedrite



Talc



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Hematite



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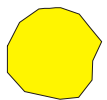
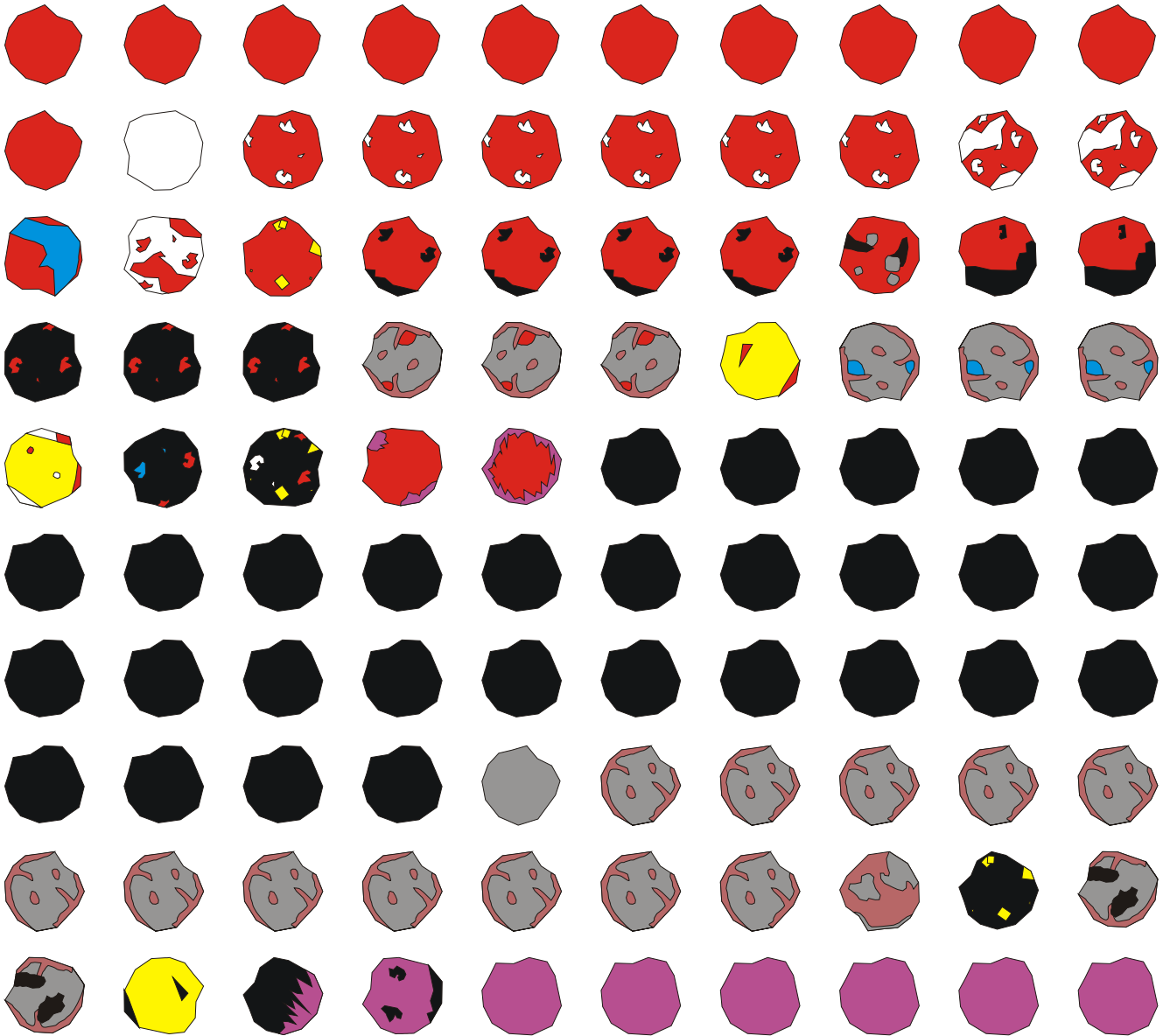
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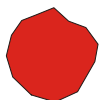
**Explorer 108 Comp
D007**

-106µm+75µm

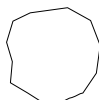
August 2008



Pyrite



Sphalerite



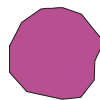
Galena



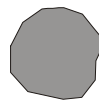
Chalcopyrite



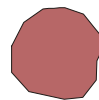
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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Gary J McArthur PhD FAusIMM MMICA MSEG

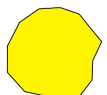
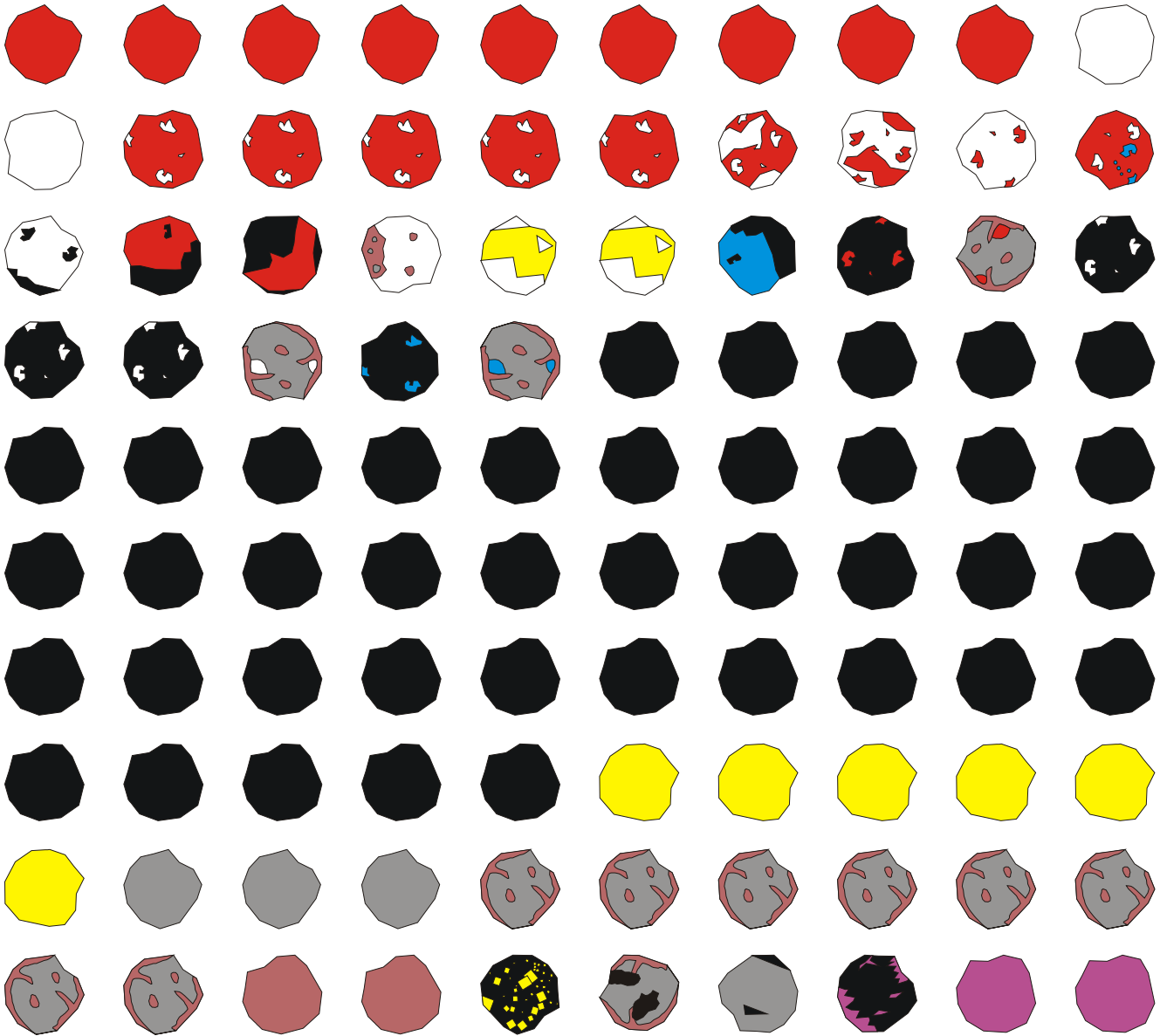
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Tel (03) 6431 1701 Fax (03) 6431 1278 Mobile 0419 367240 email gary@modapl.com.au

Burnie Research Lab - Westgold Testwork

**Explorer 108 Comp
D007**

-75µm+53µm

August 2008



Pyrite



Sphalerite



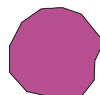
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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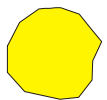
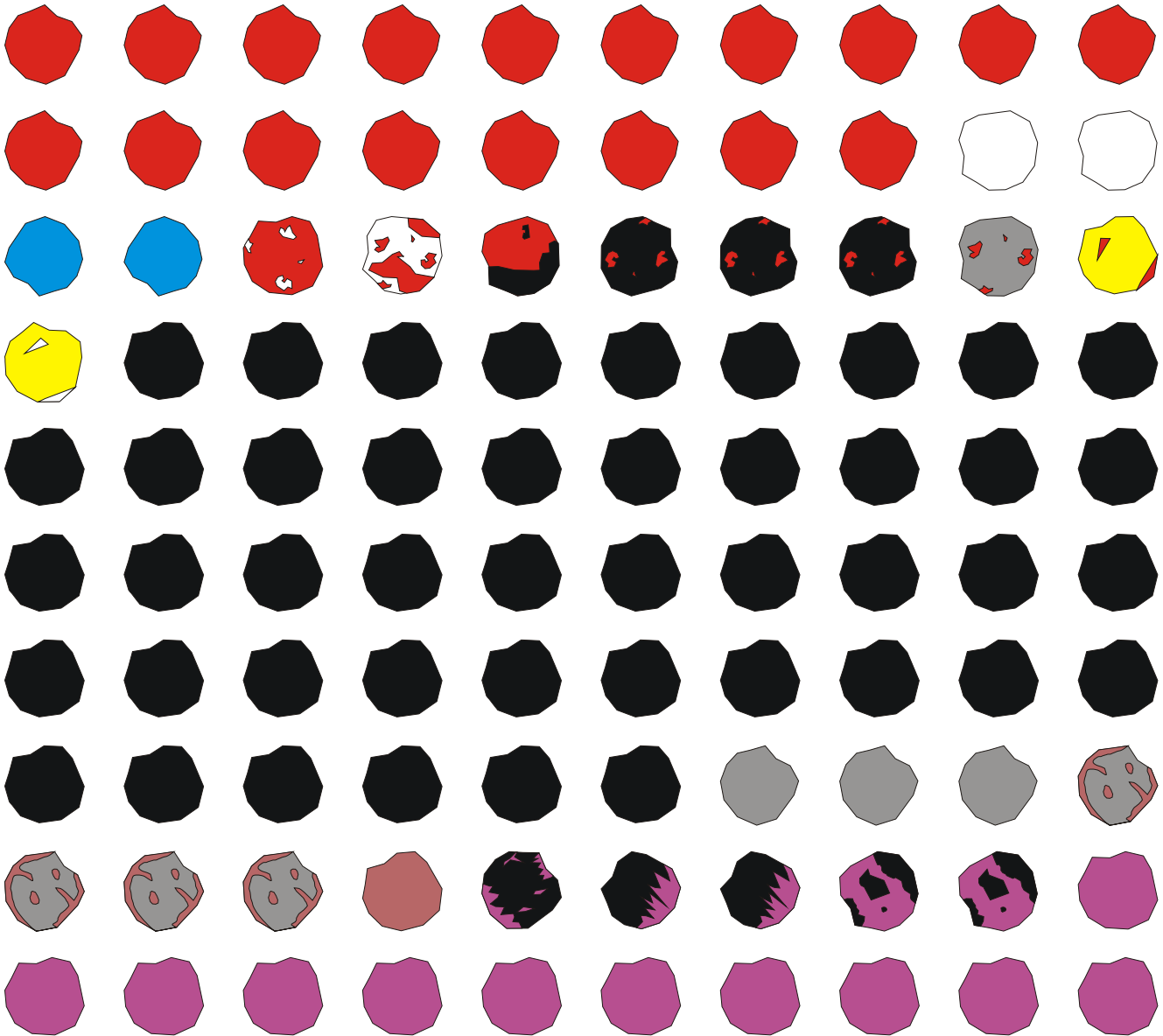
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Burnie Research Lab - Westgold Testwork

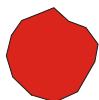
**Explorer 108 Comp
D007**

-53µm+20µm

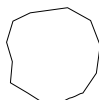
August 2008



Pyrite



Sphalerite



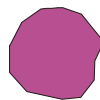
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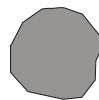
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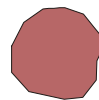
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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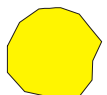
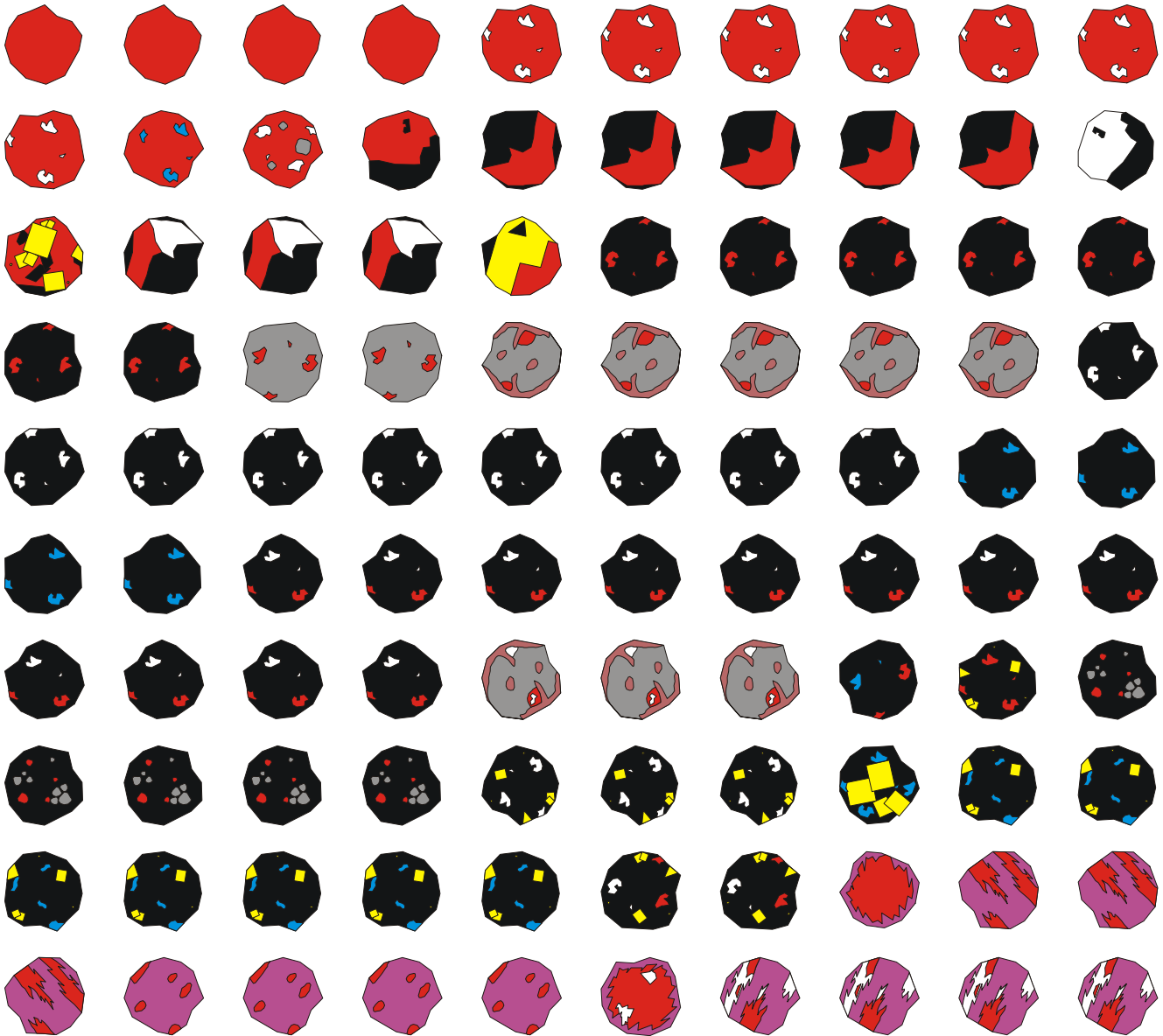
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Burnie Research Lab - Westgold Testwork

Explorer 108 Comp
D007 SpGnCpTe SCAN

+212 μ m

August 2008



Pyrite



Sphalerite



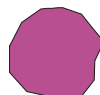
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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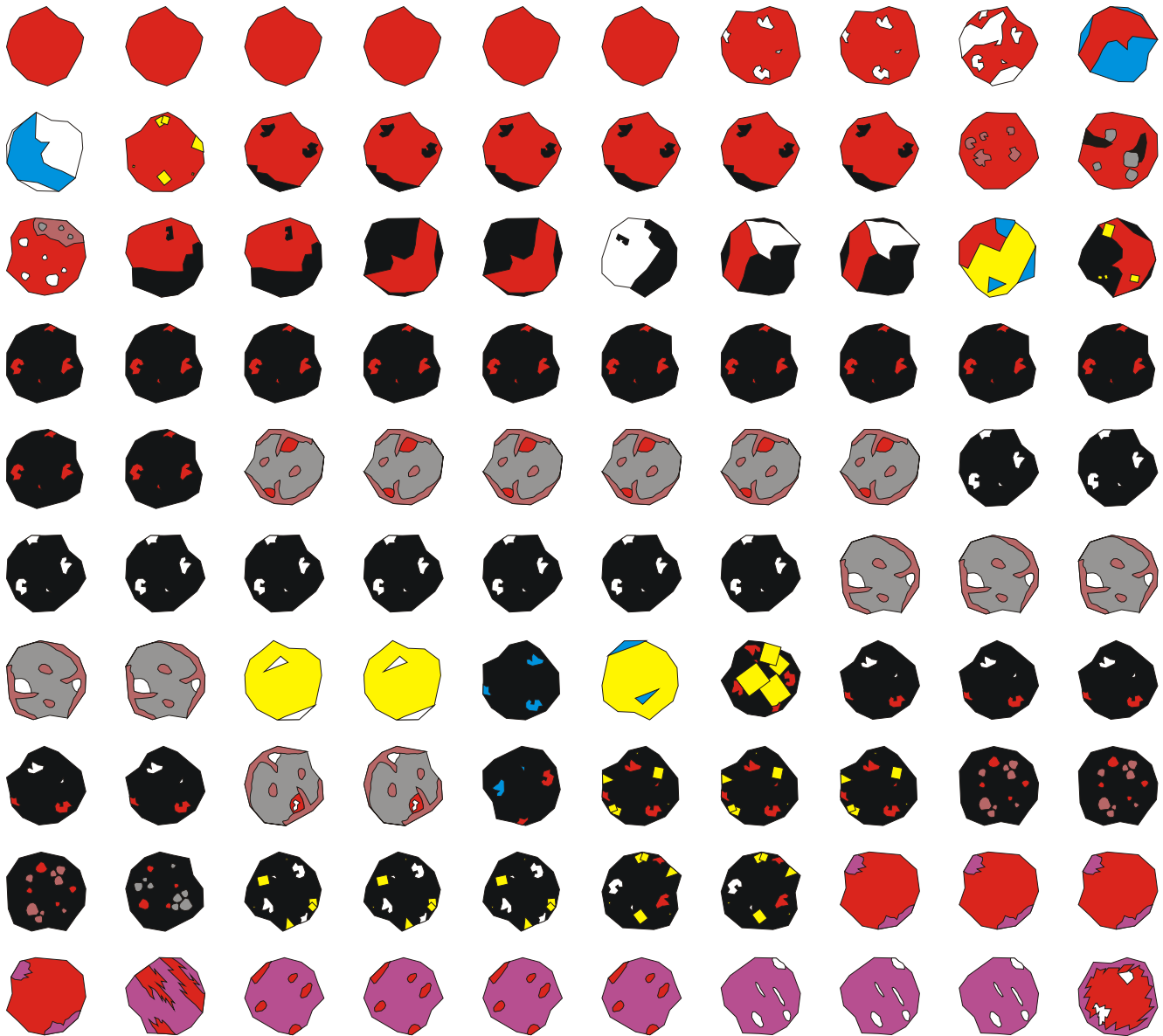
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Burnie Research Lab - Westgold Testwork

Explorer 108 Comp
D007 SpGnCpTe SCAN

-212µm+150µm

August 2008



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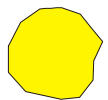
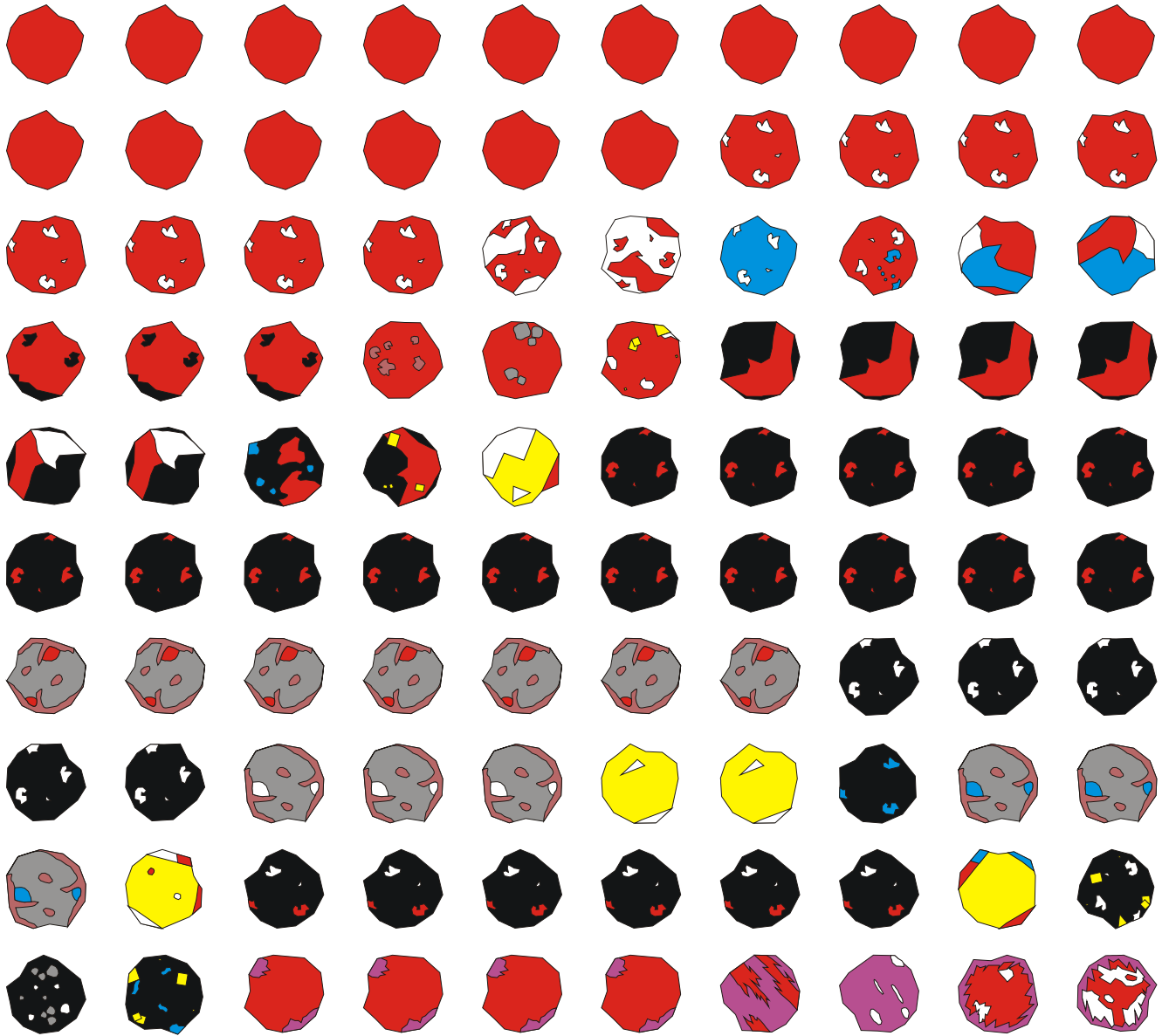
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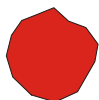
**Explorer 108 Comp
D007 SpGnCpTe SCAN**

-150µm+106µm

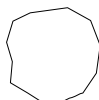
August 2008



Pyrite



Sphalerite



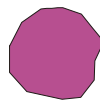
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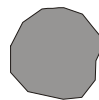
Chalcopyrite



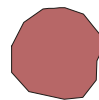
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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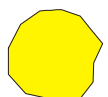
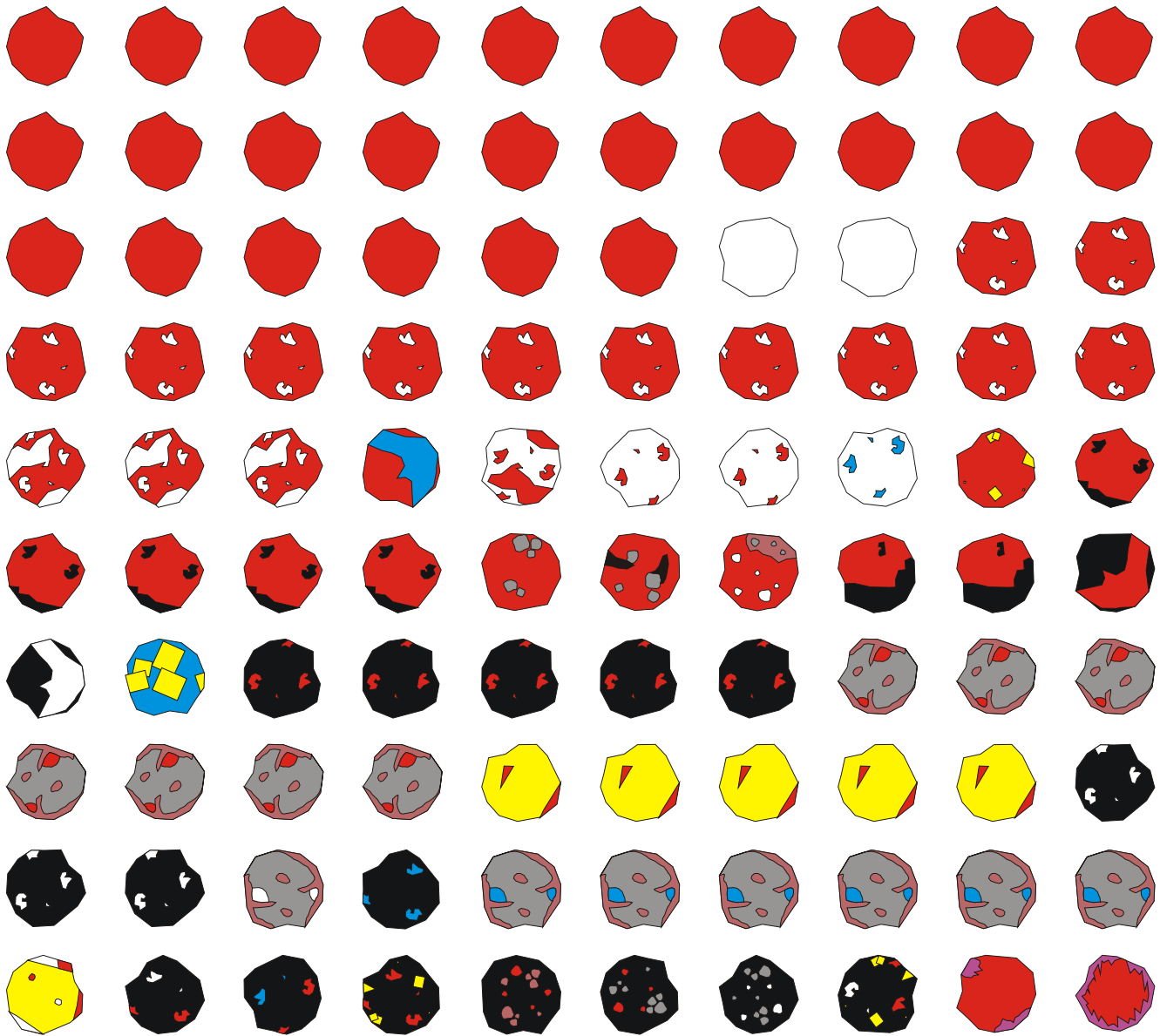
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Burnie Research Lab - Westgold Testwork

**Explorer 108 Comp
D007 SpGnCpTe SCAN**

-106µm+75µm

August 2008



Pyrite



Sphalerite



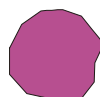
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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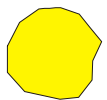
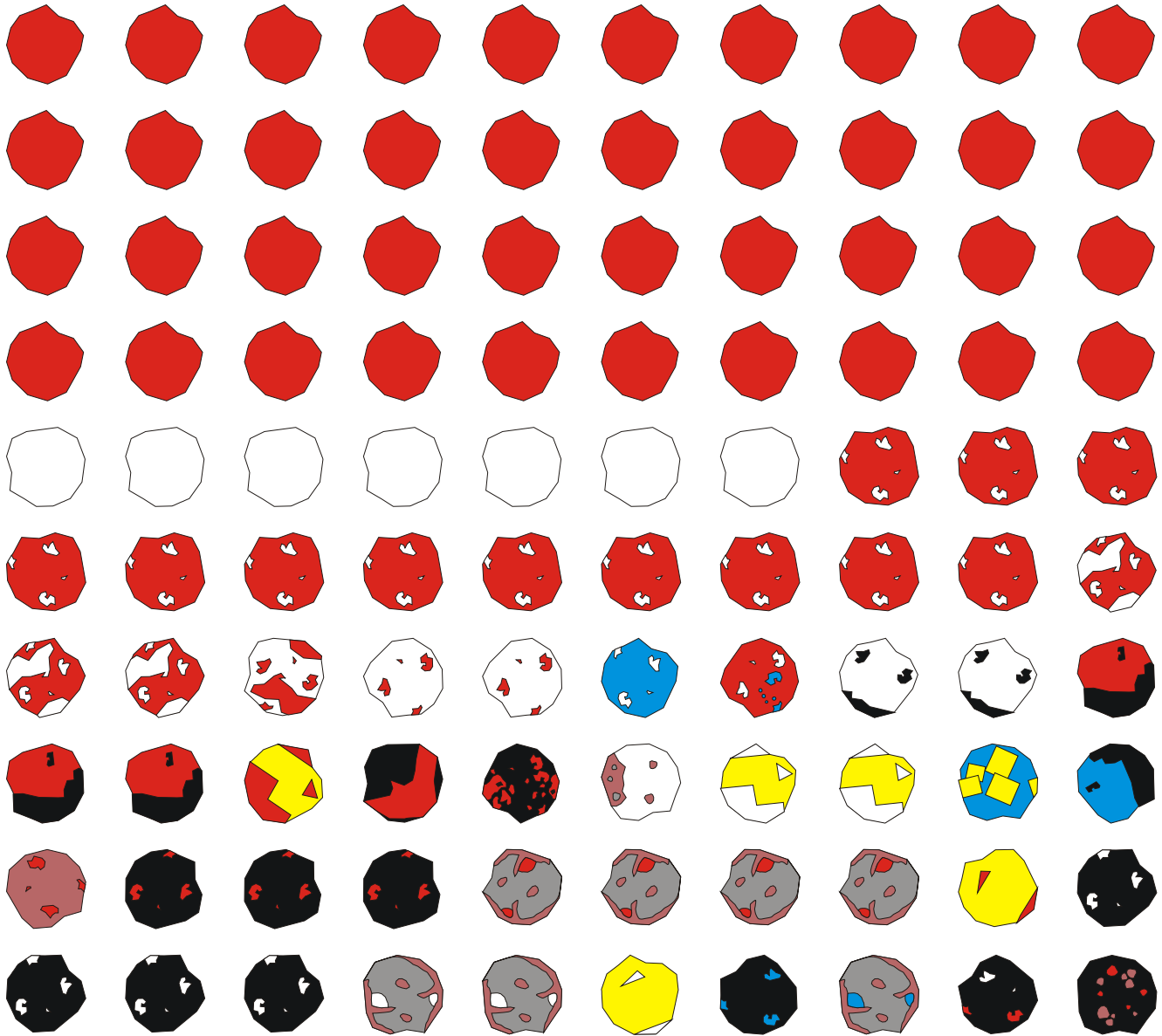
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Burnie Research Lab - Westgold Testwork

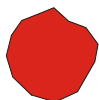
Explorer 108 Comp
D007 SpGnCpTe SCAN

-75 μ m+53 μ m

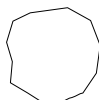
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Pyrite



Sphalerite



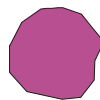
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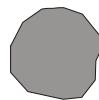
Chalcopyrite



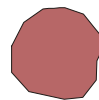
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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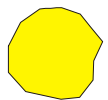
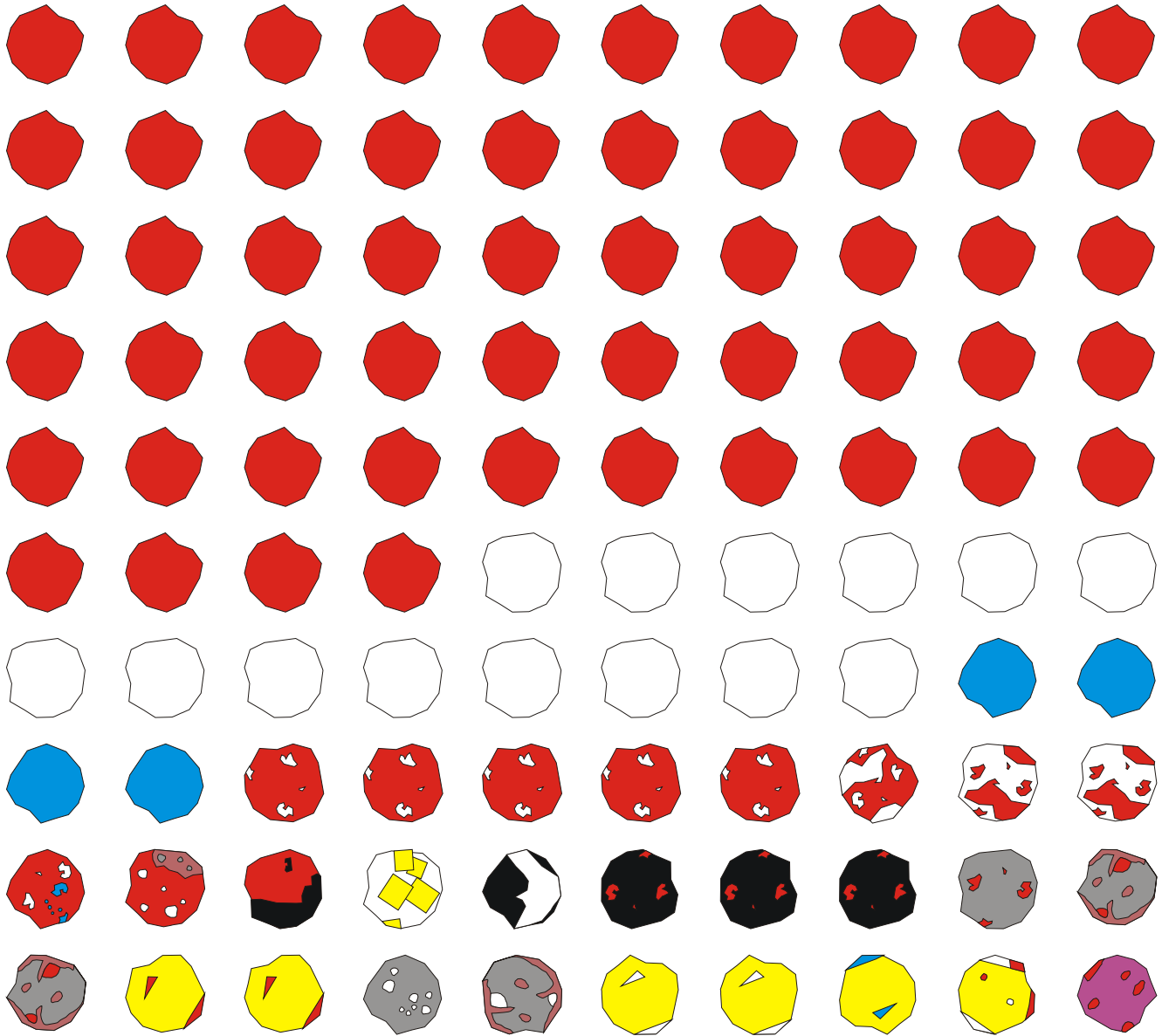
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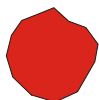
**Explorer 108 Comp
D007 SpGnCpTe SCAN**

-53µm+20µm

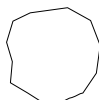
August 2008



Pyrite



Sphalerite



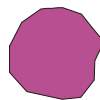
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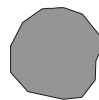
Chalcopyrite



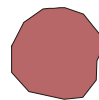
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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+212µm	6 % by weight
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Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
0.0	0.3	3.8	0.6	0.0	0.0	1.5	93.9	100
0	6	21	5	0	5	37	95	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	2.81	0.00	1.4	3.7	11	0.0	2.5
Actual		0.01	0.8	2.5		0.0	3.1

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	0	0	0	0	0	84
Binary	0	100	55	45	100	93	13
Ternary	0	0	37	42	0	0	2
Quat.y+	0	0	8	12	0	7	0
# Grains	0	4	12	7	0	4	99 1.26

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		0	0	0	0	100
Sp	1	1		19	0	21	59
Gn	0	0	18		0	0	82
Cp	0	0	0	0		0	100
Tc	0	0	0	0	0		100
Ga	0	30	42	15	0	13	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		0	0	0	0	100
Sp	1	3		49	0	28	71
Gn	0	3	60		0	18	86
Cp	0	0	0	0		0	100
Tc	0	0	7	7	0		100
Ga	0	4	8	5	0	2	

of all

DISTRIBUTION MATRIX

	Free	Binary							Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc	Ga		
Py	0	0	0	0	0	0	0	0	0	0
MtHe	0	0	0	0	0	0	0	100	0	0
Sp	0	0	0	10	0	12	33	37	8	0
Gn	0	0	0	8	0	0	37	42	12	0
Cp	0	0	0	0	0	0	100	0	0	0
Tc	0	0	0	0	0	0	93	0	7	0
Ga	84	0	4	5	2	0	2	2	0	0

PARTICLE MINERALOGY REPORT

GJMCA 06.08.08

-212µm+150µm	10 % by weight
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Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
0.0	4.1	6.3	0.6	0.0	0.0	7.4	81.5	100
1	52	37	6	6	5	68	93	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	2.95	0.00	1.4	5.8	13	0.0	7.1
Actual		0.04	1.2	5.1		0.0	4.0

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	48	18	0	0	54	82
Binary	0	25	46	21	100	38	11
Ternary	100	19	25	58	0	8	6
Quat.y+	0	7	11	21	0	0	0
# Grains	2	8	16	11	0	11	88 1.36

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		0	0	0	0	100
Sp	0	5		24	6	15	50
Gn	0	8	38		0	0	54
Cp	0	0	100	0		0	0
Tc	0	0	48	0	0		52
Ga	0	21	32	30	0	17	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		33	0	0	0	67	100
MtHe	2		24	7	0	0	52
Sp	4	8		42	3	17	55
Gn	5	16	84		0	19	76
Cp	0	0	100	0		0	0
Tc	2	0	24	6	0		22
Ga	2	4	8	8	0	3	

of all

DISTRIBUTION MATRIX

	Free	Binary							Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc	Ga		
Py	0	0	0	0	0	0	0	0	100	0
MtHe	48	0	0	0	0	0	0	25	19	7
Sp	18	0	2	11	3	7	23	25	11	0
Gn	0	0	2	8	0	0	11	58	21	0
Cp	0	0	0	100	0	0	0	0	0	0
Tc	54	0	0	18	0	0	20	8	0	0
Ga	82	0	2	4	3	0	2	6	0	0

Explorer 108 Comp D020
August 2008

-150µm+106µm	13 % by weight
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Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
0.8	4.1	7.4	0.8	0.0	0.0	8.3	78.6	100
39	58	45	8	3	3	83	92	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	2.99	0.00	1.8	6.7	17	0.0	7.4
Actual		0.04	1.8	7.3		0.0	5.2

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	49	36	0	0	72	84
Binary	0	43	29	42	83	23	9
Ternary	100	5	32	56	17	1	7
Quat.y+	0	2	3	2	0	4	0
# Grains	2	7	21	12	0	10	85 1.37

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		49	51	0	0	0
Sp	0	1		12	8	11	67
Gn	0	23	40		0	0	37
Cp	0	0	100	0		0	0
Tc	0	0	100	0	0		0
Ga	0	0	72	28	0	0	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	95	100	0	0	5
MtHe	0		28	25	0	2	8
Sp	2	8		31	5	12	45
Gn	6	14	74		1	1	65
Cp	0	0	100	17		0	0
Tc	0	4	28	4	0		5
Ga	1	2	11	9	0	1	

of all

DISTRIBUTION MATRIX

	Free	Binary							Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc	Ga		
Py	0	0	0	0	0	0	0	0	100	0
MtHe	49	0	0	21	22	0	0	0	0	5
Sp	36	0	0	4	2	3	19	32	3	0
Gn	0	0	10	17	0	0	15	56	2	0
Cp	0	0	0	83	0	0	0	0	17	0
Tc	72	0	0	23	0	0	0	0	1	4
Ga	84	0	0	6	2	0	0	0	7	0



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-106µm+75µm 13 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
0.1	5.4	12.3	0.7	0.0	0.0	6.8	74.7	100
5	76	61	16	0	2	68	91	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	3.06	0.00	1.5	10.9	17	0.0	8.2
Actual		0.06	2.7	8.7	0.0	0.0	5.5

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	75	41	16	0	44	88
Binary	0	25	41	56	0	48	9
Ternary	100	0	16	23	100	8	2
Quat.y+	0	0	2	4	0	0	0
# Grains	1	7	18	10	0	10	82 1.28

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		0	70	0	0	30
Sp	5	0		46	0	12	37
Gn	0	3	64		0	0	33
Cp	0	0	0	0		0	0
Tc	0	0	28	0	0		72
Ga	0	23	30	38	0	9	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	100	100	0	0	0
MtHe	0		0	18	0	0	7
Sp	5	5		33	0	9	28
Gn	5	4	62		0	0	44
Cp	0	100	0	0		0	100
Tc	0	0	22	0	0		43
Ga	0	2	5	5	0	2	

of all

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc		
Py	0	0	0	0	0	0	0	100	0
MtHe	75	0	0	18	0	0	7	0	0
Sp	41	2	0	19	0	5	15	16	2
Gn	16	0	2	36	0	0	19	23	4
Cp	0	0	0	0	0	0	100	0	0
Tc	44	0	0	13	0	0	34	8	0
Ga	88	0	2	3	3	0	1	2	0

PARTICLE MINERALOGY REPORT

GJMCA 06.08.08

-75µm+53µm 9 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
0.0	2.1	12.0	2.9	0.0	0.0	6.1	77.0	100
0	70	73	38	1	68	67	94	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	3.08	0.00	6.1	10.5	45	0.0	4.3
Actual		0.09	3.5	9.3		0.0	5.0

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	48	75	48	98	33	92
Binary	0	45	21	39	2	67	7
Ternary	0	7	4	13	0	0	1
Quat.y+	0	0	1	0	0	0	0
# Grains	0	3	19	5	0	9	82 1.18

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		100	0	0	0	0
Sp	0	1		14	8	6	71
Gn	2	0	8		0	0	91
Cp	0	0	100	0		0	0
Tc	0	0	31	0	0		69
Ga	0	0	57	0	0	43	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		52	7	0	0	0
Sp	0	2		7	2	1	18
Gn	1	10	15		0	1	38
Cp	0	0	2	0		0	0
Tc	0	0	21	0	0		46
Ga	0	0	5	1	0	3	

of all

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc		
Py	0	0	0	0	0	0	0	0	0
MtHe	48	0	0	45	0	0	0	7	0
Sp	75	0	0	3	2	1	15	4	1
Gn	48	1	0	3	0	0	35	13	0
Cp	98	0	0	2	0	0	0	0	0
Tc	33	0	0	21	0	0	46	0	0
Ga	92	0	0	4	0	0	3	1	0

**Explorer 108 Comp D020
August 2008**

-53µm+20µm 24 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
0.0	0.9	15.2	2.4	0.0	0.0	9.8	71.7	100
0	45	87	51	52	100	75	97	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	3.07	0.00	5.1	13.4	40	0.0	2.8
Actual		0.07	5.7	9.6		0.0	3.9

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	0	85	65	100	92	92
Binary	0	100	14	33	0	8	6
Ternary	0	0	1	2	0	0	2
Quat.y+	0	0	0	0	0	0	0
# Grains	0	2	19	5	0	13	74 1.13

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		0	0	0	0	100
Sp	1	0		90	0	6	2
Gn	0	0	92		0	0	8
Cp	0	0	0	0		0	0
Tc	0	0	50	0	0		50
Ga	0	24	20	0	0	57	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		0	0	0	0	100
Sp	0	0		14	0	1	1
Gn	0	0	33		0	0	5
Cp	0	0	0	0		0	0
Tc	0	0	4	0	0		4
Ga	0	2	3	2	0	4	

of all

DISTRIBUTION MATRIX

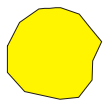
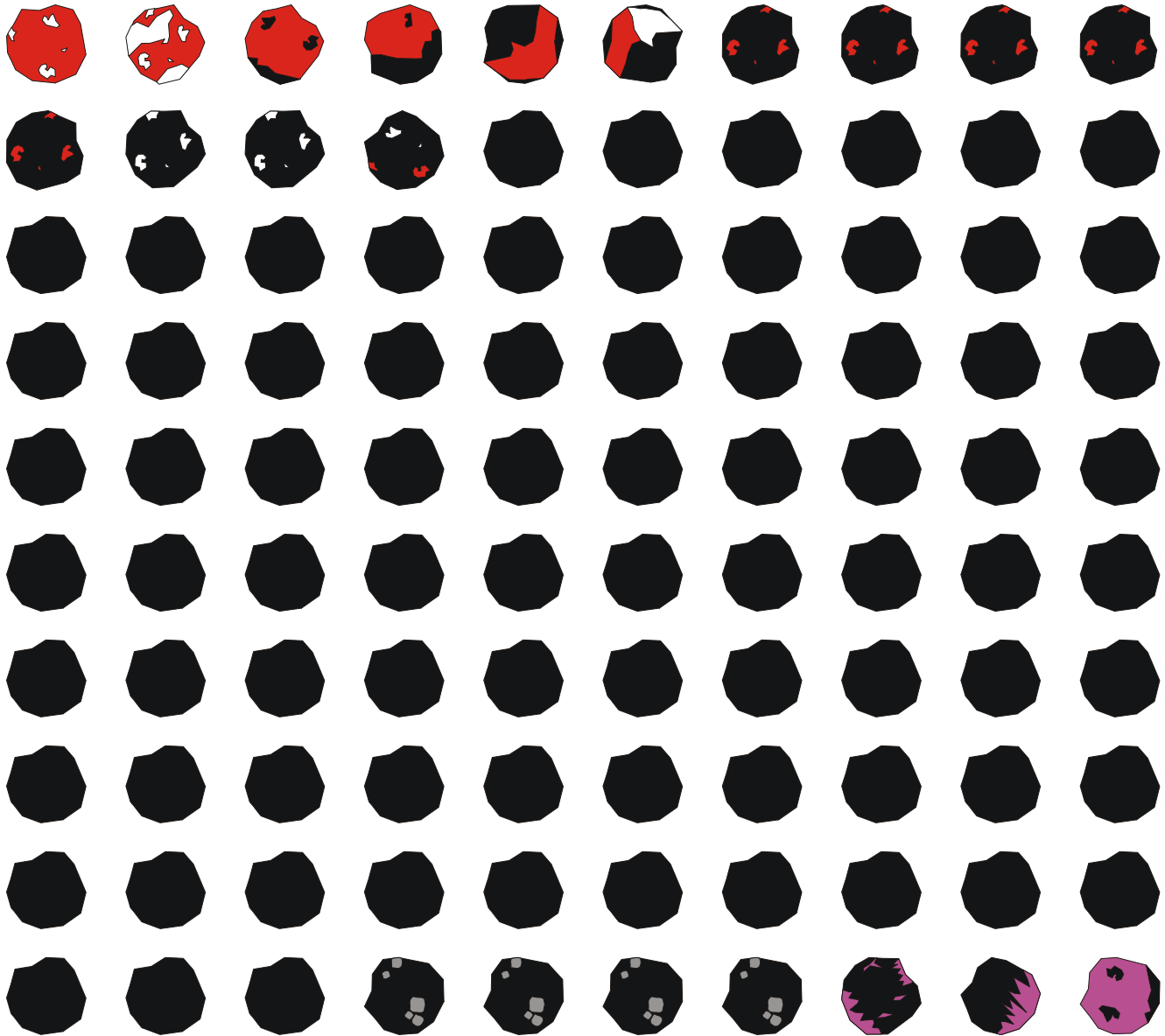
	Free	Binary						Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc		
Py	0	0	0	0	0	0	0	0	0
MtHe	0	0	0	0	0	0	0	100	0
Sp	85	0	0	13	0	1	0	1	0
Gn	65	0	0	30	0	0	3	2	0
Cp	100	0	0	0	0	0	0	0	0
Tc	92	0	0	4	0	0	4	0	0
Ga	92	0	2	1	0	0	4	2	0

Burnie Research Lab - Westgold Testwork

Explorer 108 Comp
D020

+212 μ m

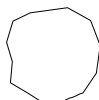
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Pyrite



Sphalerite



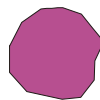
Galena



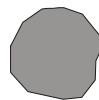
Chalcopyrite



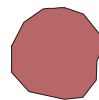
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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ABN 66 642 590 245

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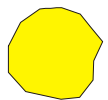
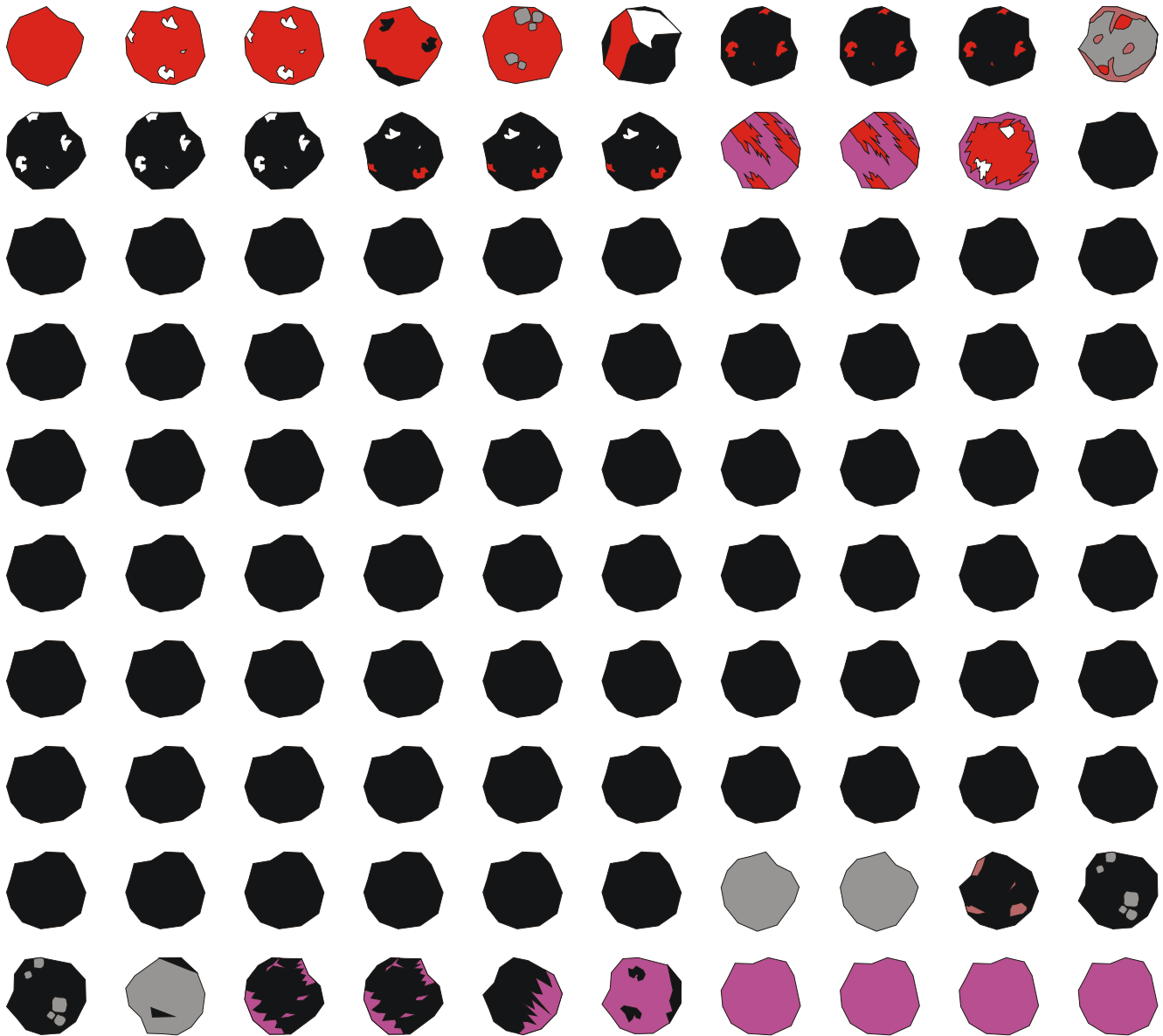
Suite 6, 1st Floor, Brownell Place, 11 Wilson St, (PO Box 1303) Burnie TAS 7320 AUSTRALIA
Tel (03) 6431 1701 Fax (03) 6431 1278 Mobile 0419 367240 email gary@modapl.com.au

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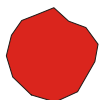
Explorer 108 Comp
D020

-212 μ m+150 μ m

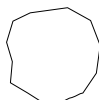
August 2008



Pyrite



Sphalerite



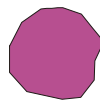
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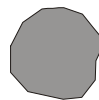
Chalcopyrite



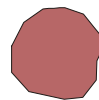
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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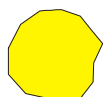
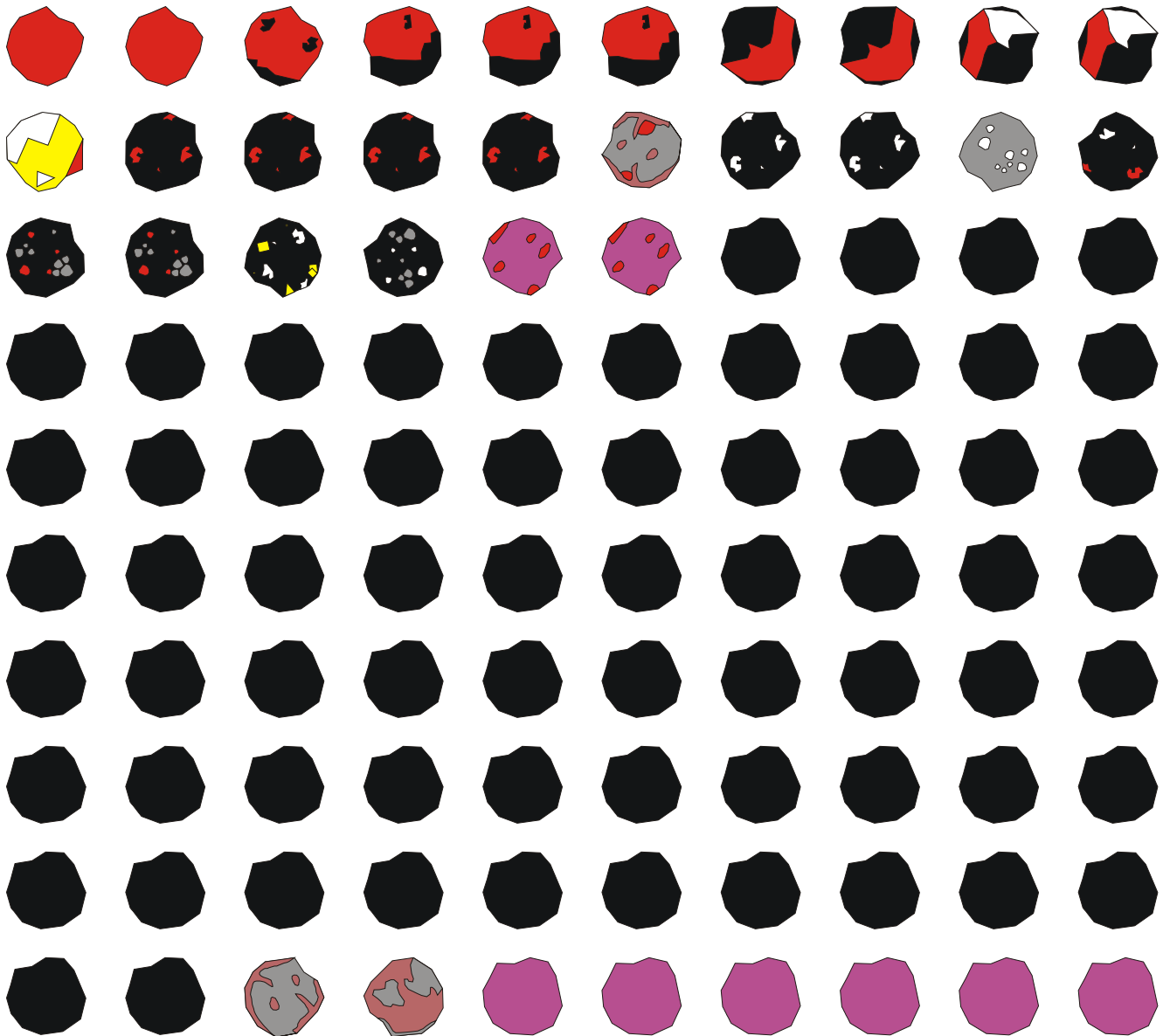
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Burnie Research Lab - Westgold Testwork

Explorer 108 Comp
D020

-150µm+106µm

August 2008



Pyrite



Sphalerite



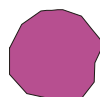
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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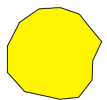
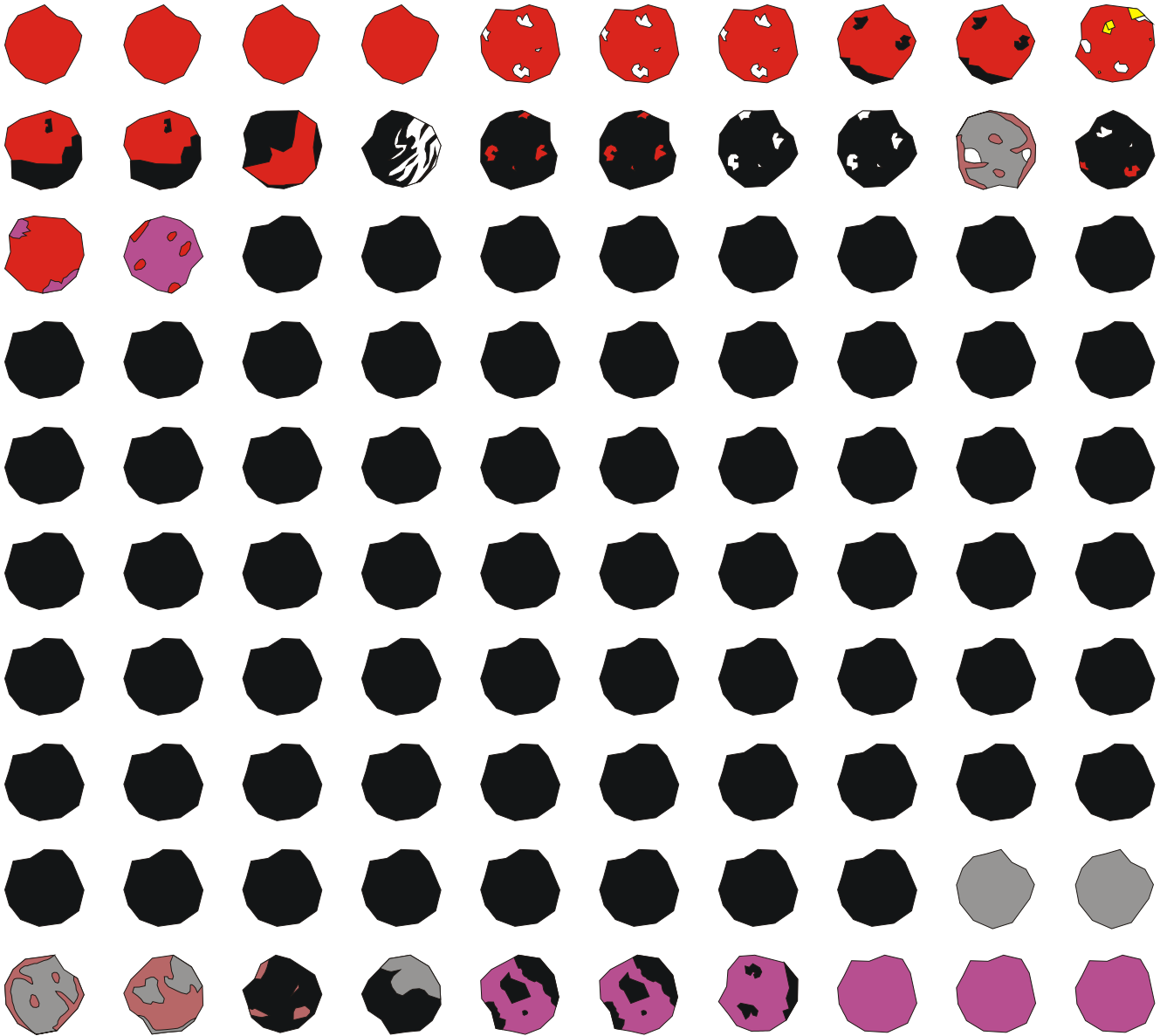
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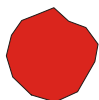
Explorer 108 Comp
D020

-106µm+75µm

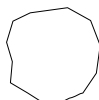
August 2008



Pyrite



Sphalerite



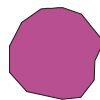
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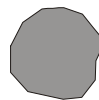
Chalcopyrite



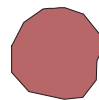
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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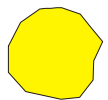
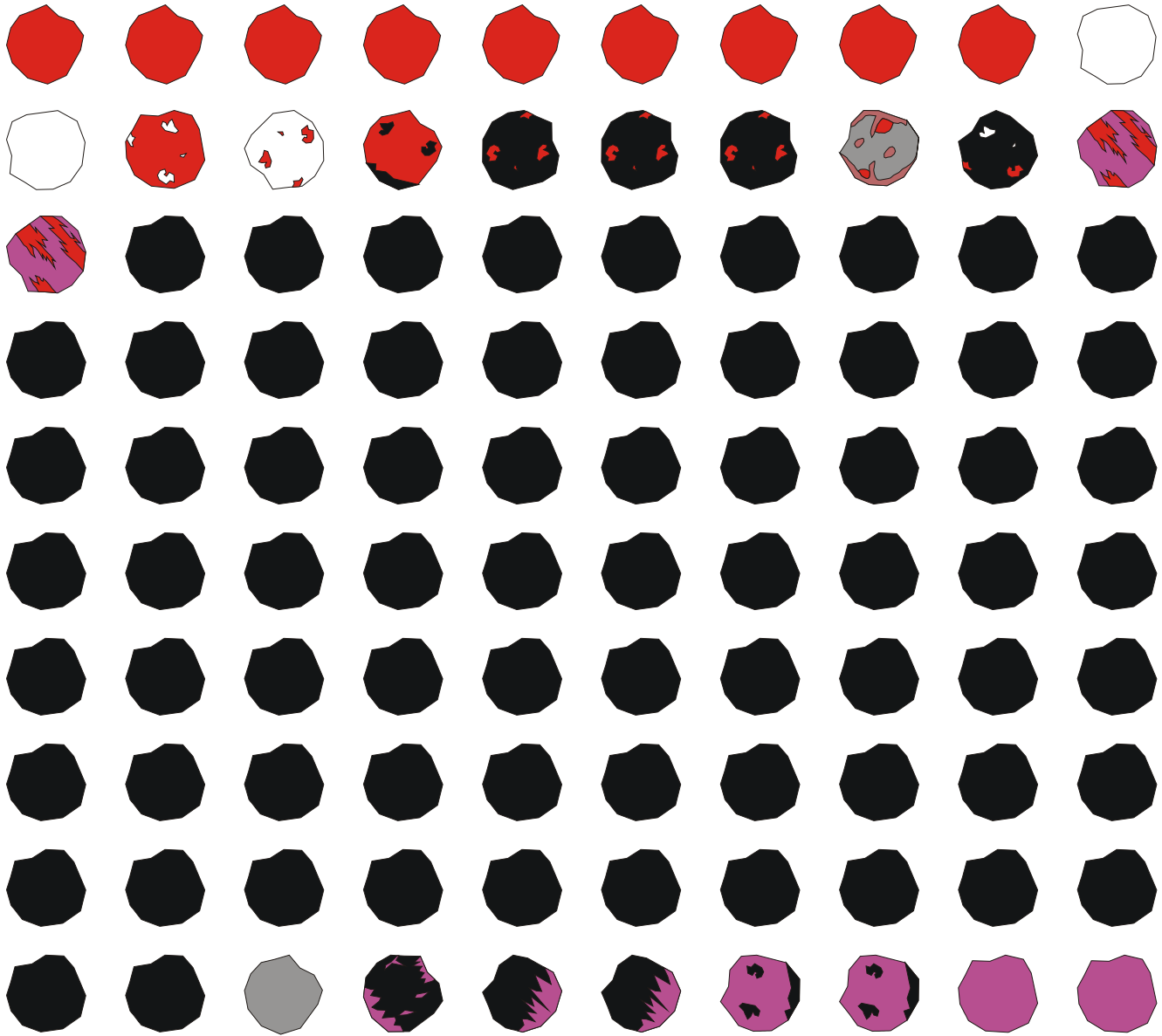
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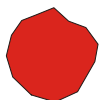
Explorer 108 Comp
D020

-75 μ m+53 μ m

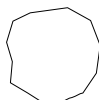
August 2008



Pyrite



Sphalerite



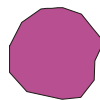
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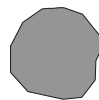
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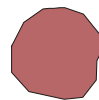
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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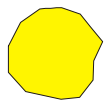
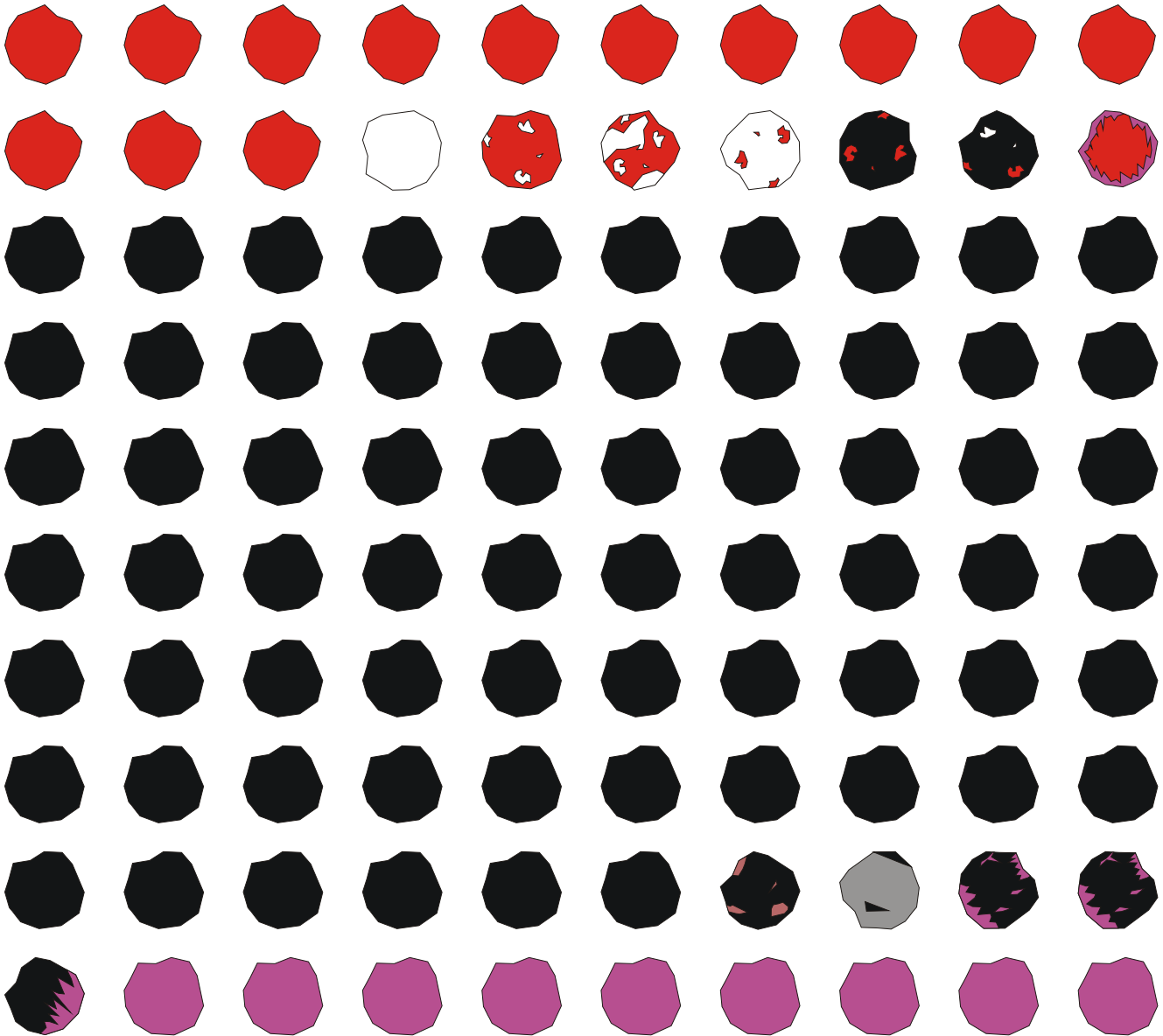
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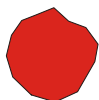
**Explorer 108 Comp
D020**

-53µm+20µm

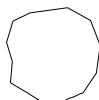
August 2008



Pyrite



Sphalerite



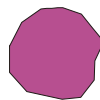
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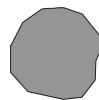
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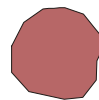
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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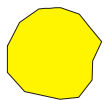
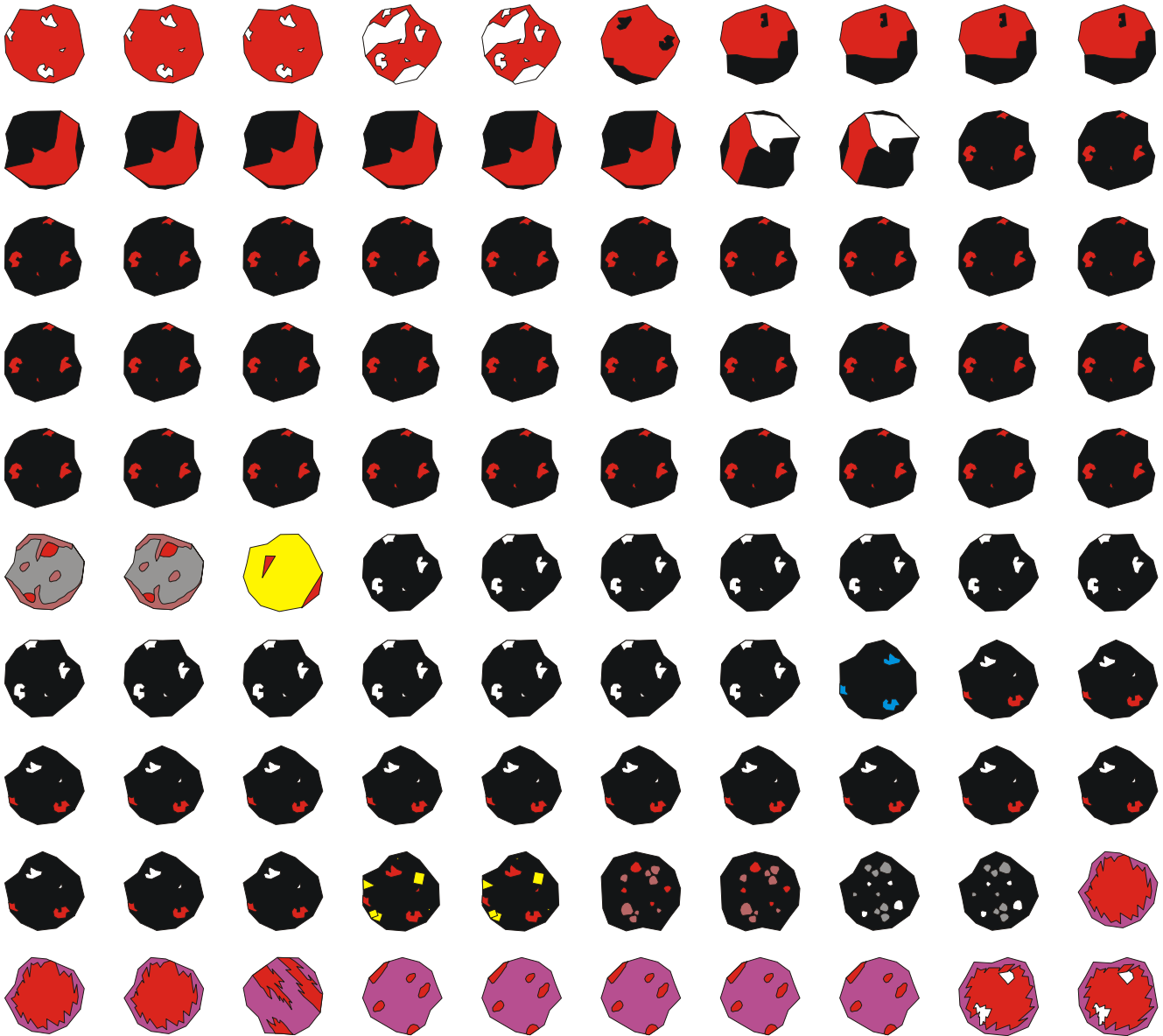
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Explorer 108 Comp
D020 SpGnCpTe SCAN

+212µm

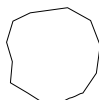
August 2008



Pyrite



Sphalerite



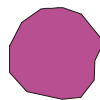
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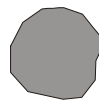
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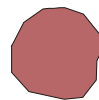
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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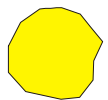
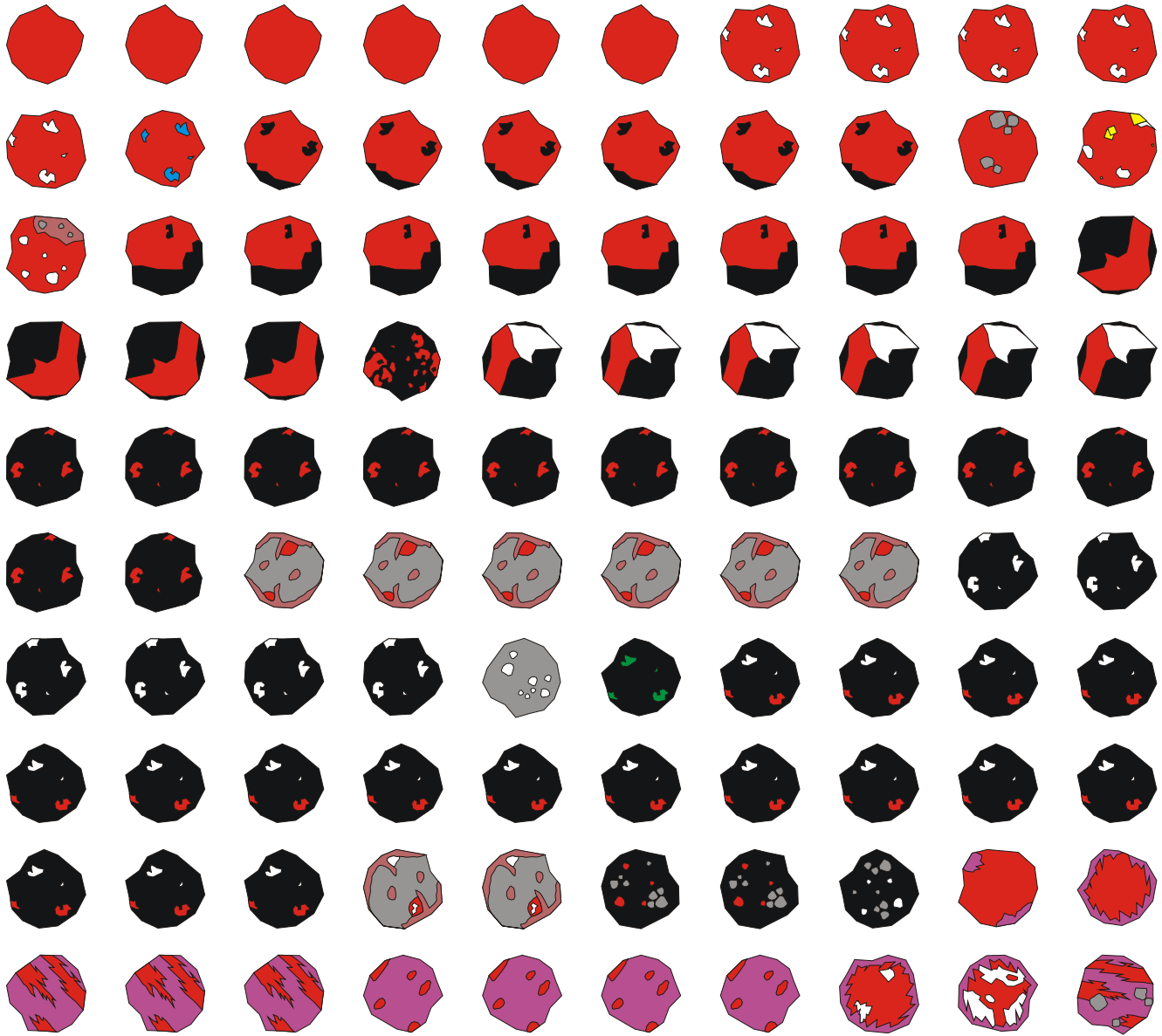
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Burnie Research Lab - Westgold Testwork

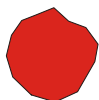
Explorer 108 Comp
D020 SpGnCpTe SCAN

-212µm+150µm

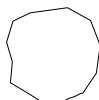
August 2008



Pyrite



Sphalerite



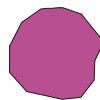
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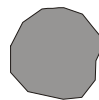
Chalcopyrite



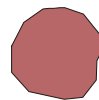
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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Gary J McArthur PhD FAusIMM MMICA MSEG

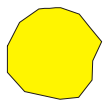
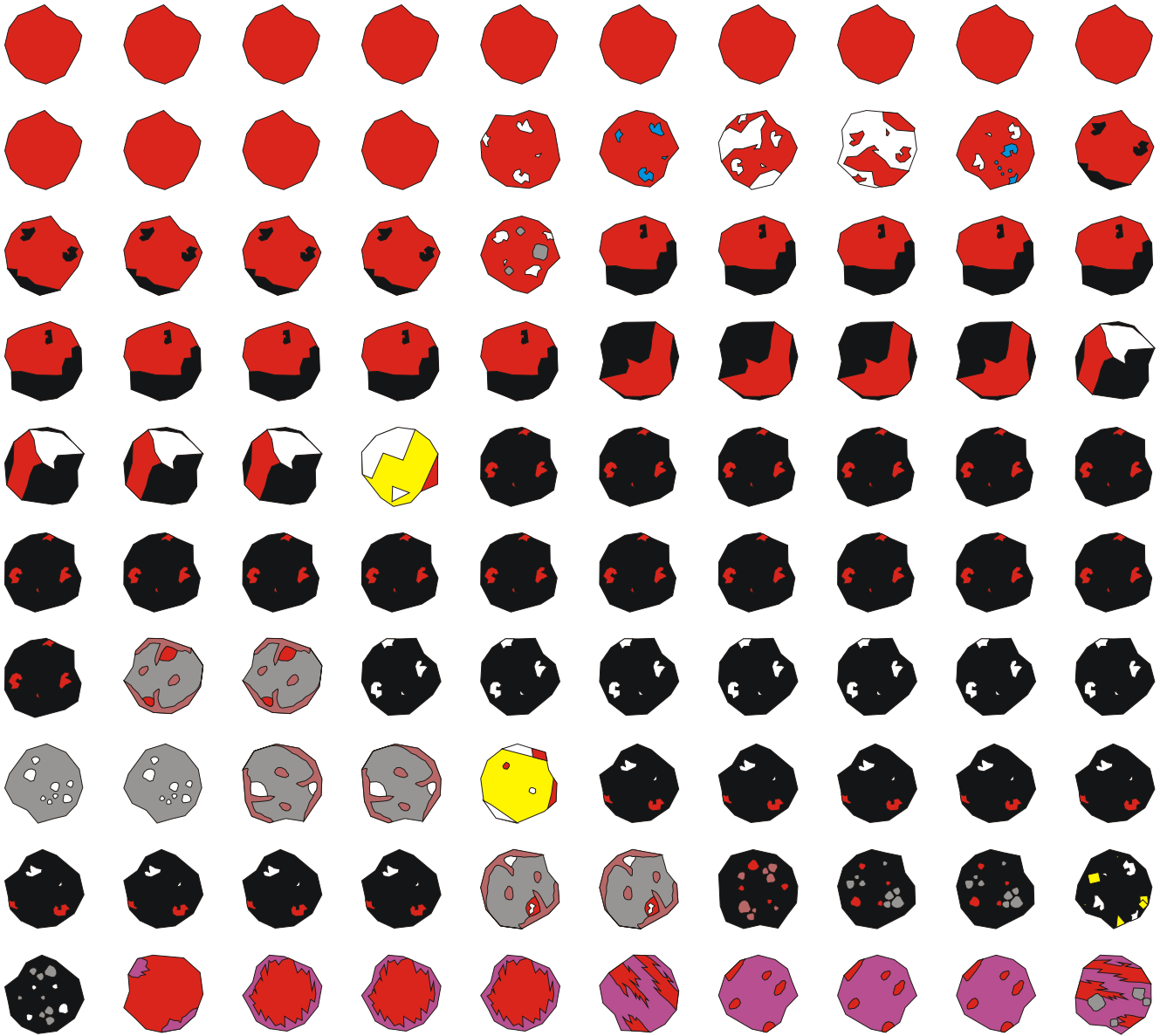
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Burnie Research Lab - Westgold Testwork

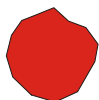
**Explorer 108 Comp
D020 SpGnCpTe SCAN**

-150µm+106µm

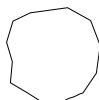
August 2008



Pyrite



Sphalerite



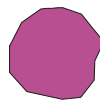
Galena



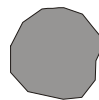
Chalcopyrite



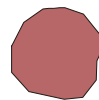
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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Gary J McArthur PhD FAusIMM MMICA MSEG

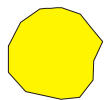
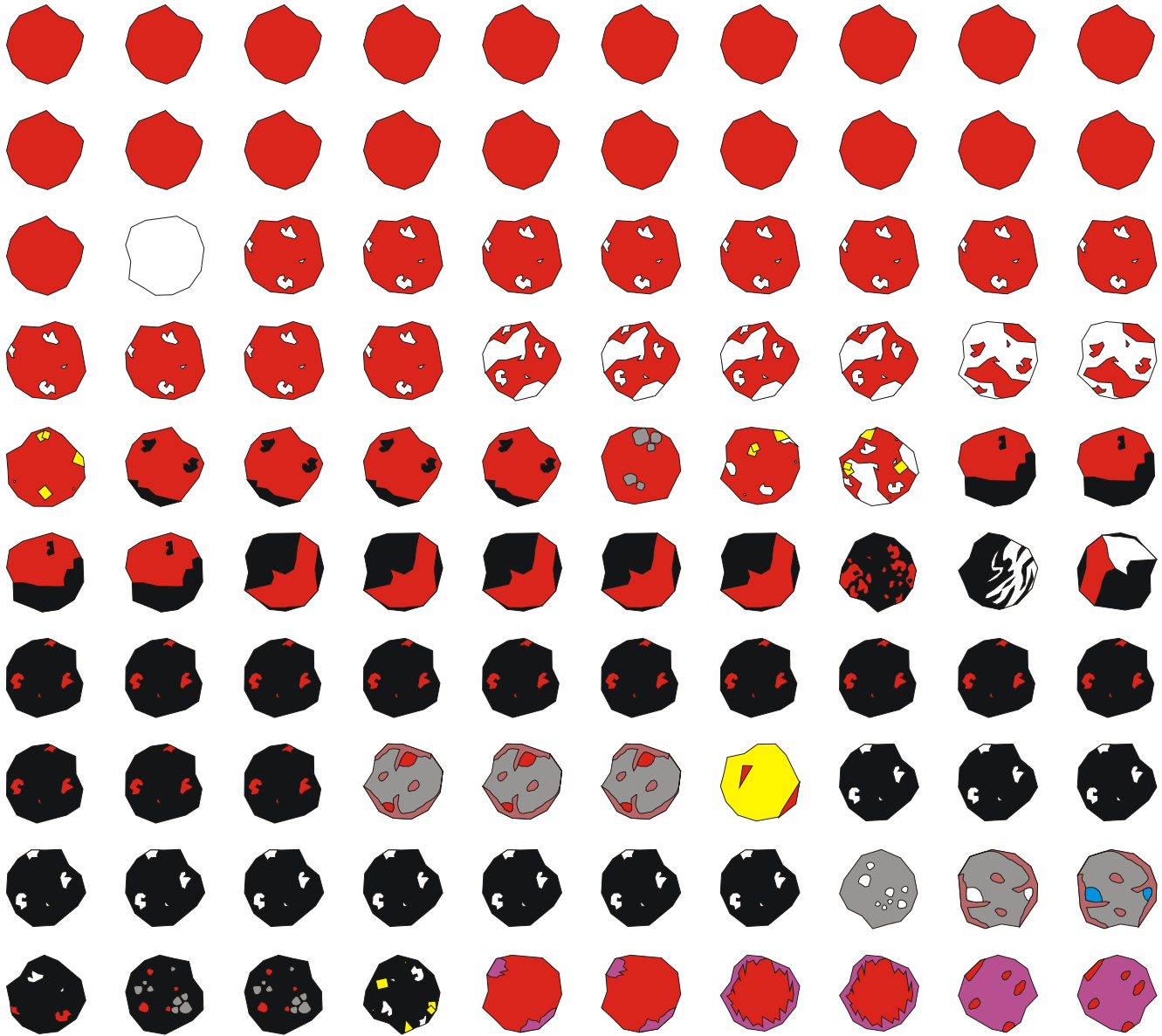
Suite 6, 1st Floor, Brownell Place, 11 Wilson St, (PO Box 1303) Burnie TAS 7320 AUSTRALIA
Tel (03) 6431 1701 Fax (03) 6431 1278 Mobile 0419 367240 email gary@modapl.com.au

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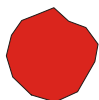
**Explorer 108 Comp
D020 SpGnCpTe SCAN**

-106µm+75µm

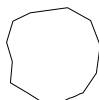
August 2008



Pyrite



Sphalerite



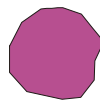
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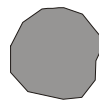
Chalcopyrite



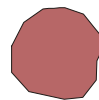
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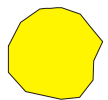
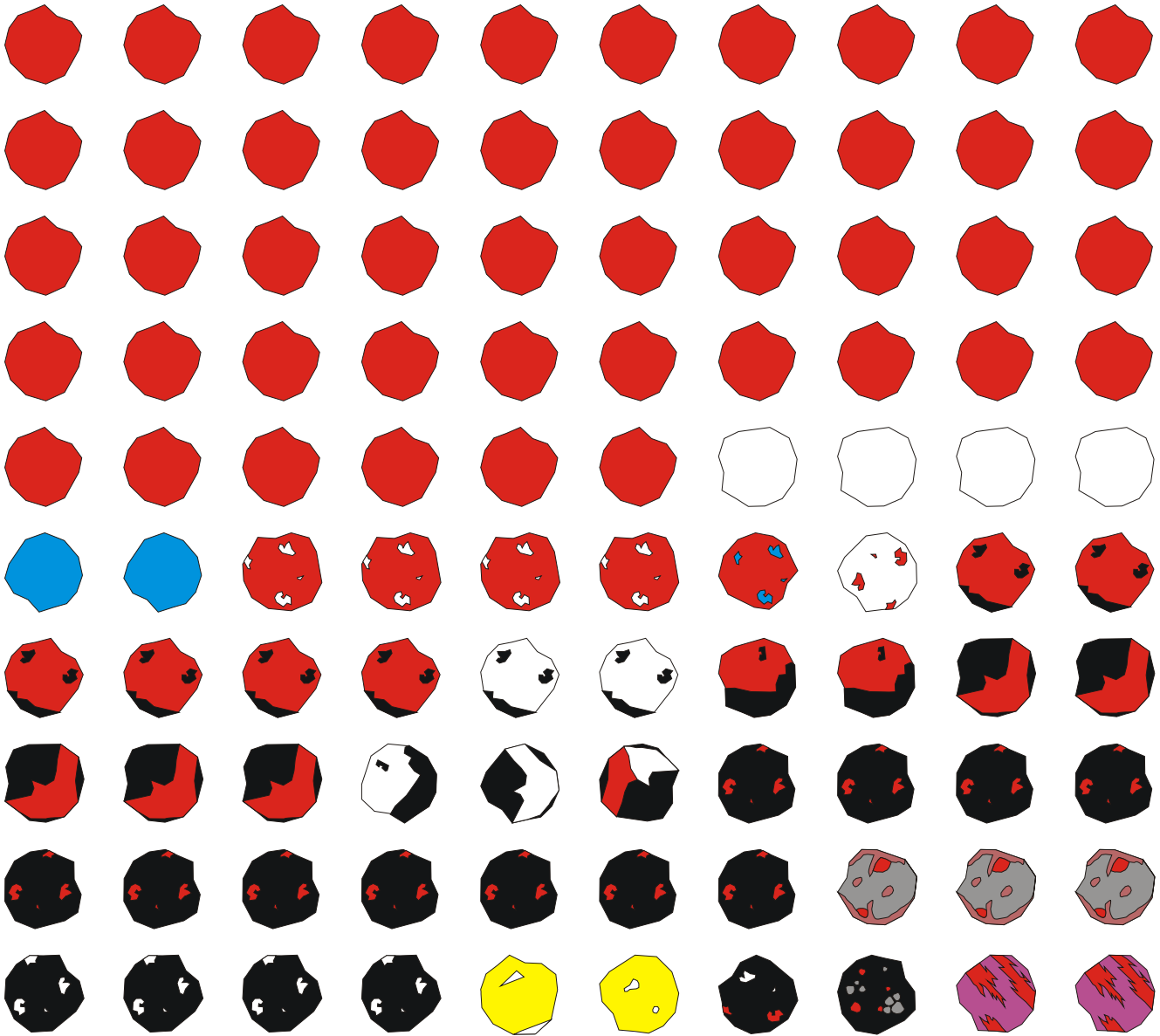
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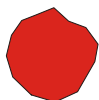
**Explorer 108 Comp
D020 SpGnCpTe SCAN**

-75µm+53µm

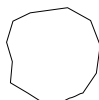
August 2008



Pyrite



Sphalerite



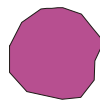
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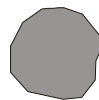
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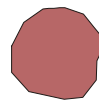
Tetrahedrite



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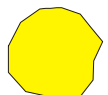
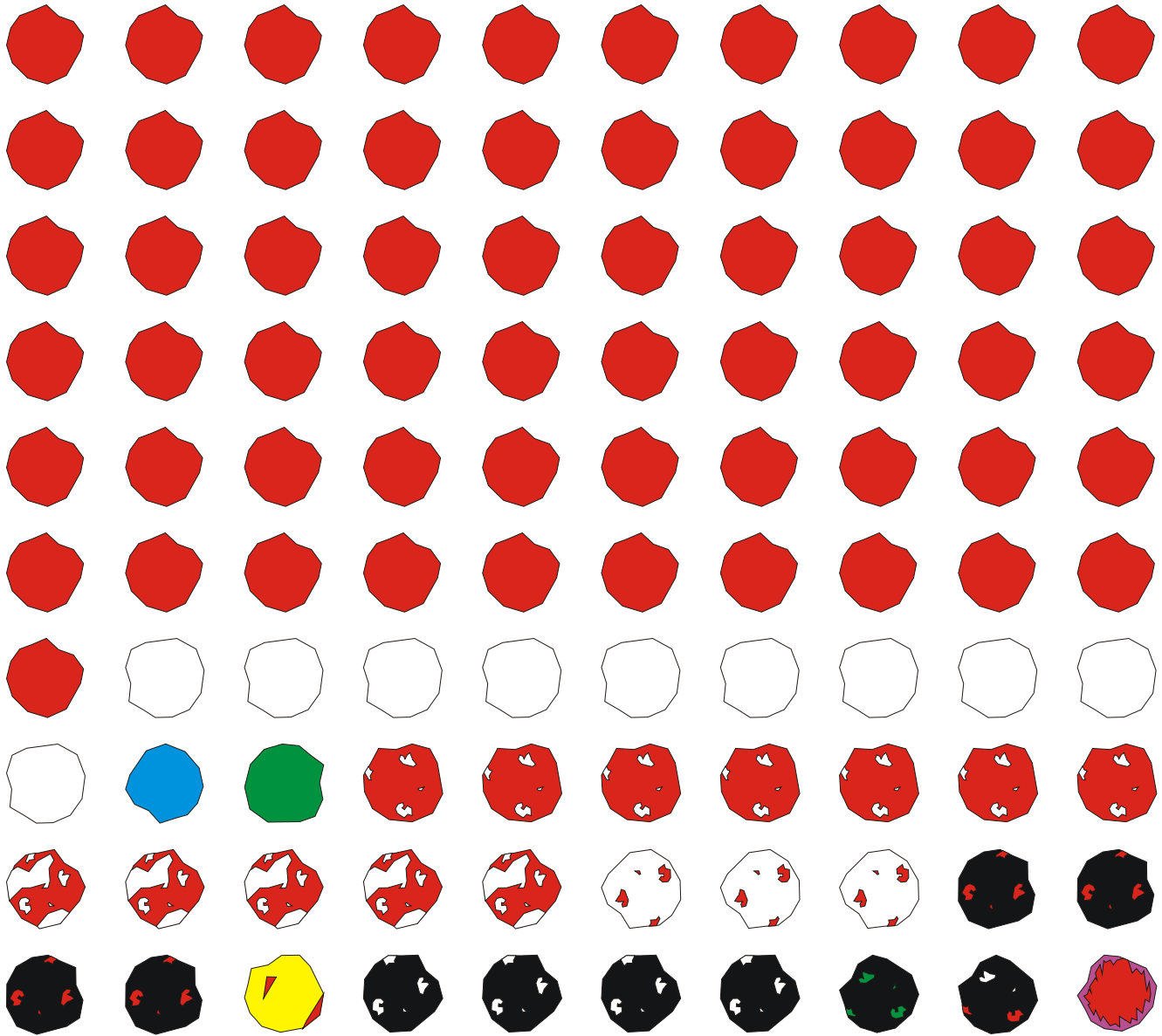
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Burnie Research Lab - Westgold Testwork

Explorer 108 Comp
D020 SpGnCpTe SCAN

-53 μ m+20 μ m

August 2008



Pyrite



Sphalerite



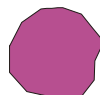
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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+212µm 4 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
0.7	0.0	1.3	0.2	0.0	0.0	3.9	93.9	100
12	0	15	3	0	4	77	97	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	2.77	0.00	0.5	1.3	5	0.0	2.8
Actual		0.01	0.3	1.2		0.0	5.7

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga	
Mono	0	0	8	0	0	52	87	
Binary	97	0	53	63	0	39	10	
Ternary	1	0	32	32	37	9	2	
Quat.y+	1	0	7	5	63	0	1	
# Grains	6	0	6	5	0	5	97	1.19

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	100
MtHe	0		0	0	0	0	0
Sp	0	0		0	0	21	79
Gn	0	0	0		0	0	100
Cp	0	0	0	0		0	0
Tc	0	0	0	0	0		100
Ga	35	0	20	40	0	5	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	3	1	0	0	100
MtHe	0		0	0	0	0	0
Sp	15	2		32	8	14	67
Gn	7	3	32		8	4	89
Cp	4	59	85	30		0	89
Tc	0	0	9	0	0		48
Ga	5	0	5	5	0	1	

of all

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat	
		Py	MtHe	Sp	Gn	Cp	Tc			Ga
Py	0	0	0	0	0	0	0	97	1	1
MtHe	0	0	0	0	0	0	0	0	0	0
Sp	8	0	0	0	0	11	42	32	7	
Gn	0	0	0	0	0	0	63	32	5	
Cp	0	0	0	0	0	0	0	37	63	
Tc	52	0	0	0	0	0	39	9	0	
Ga	87	4	0	2	4	0	1		2	1

PARTICLE MINERALOGY REPORT

GJMCA 06.08.08

-212µm+150µm 8 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
0.7	0.1	3.5	0.4	0.0	0.1	2.8	92.6	100
14	5	30	8	0	3	92	95	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	2.81	0.03	0.9	3.3	9	0.0	2.9
Actual		0.01	0.4	1.8		0.0	5.5

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga	
Mono	0	0	15	0	0	36	88	
Binary	80	50	52	44	83	64	9	
Ternary	6	0	26	39	17	0	3	
Quat.y+	14	50	7	17	0	0	1	
# Grains	5	2	10	6	1	3	97	1.24

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	100
MtHe	0		0	0	0	0	100
Sp	0	0		24	7	0	69
Gn	0	3	42		0	0	55
Cp	0	0	50	0		0	50
Tc	0	0	0	0	0		100
Ga	31	12	30	12	12	3	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		14	20	14	0	0	100
MtHe	50		50	50	0	0	100
Sp	7	1		45	7	1	65
Gn	18	3	72		2	1	78
Cp	0	0	50	17		0	50
Tc	0	0	0	0	0		64
Ga	5	2	6	4	1	0	

of all

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat	
		Py	MtHe	Sp	Gn	Cp	Tc			Ga
Py	0	0	0	0	0	0	0	80	6	14
MtHe	0	0	0	0	0	0	0	50	0	50
Sp	15	0	0	13	4	0	36	26	7	
Gn	0	0	1	19	0	0	24	39	17	
Cp	0	0	0	42	0	0	42	17	0	
Tc	36	0	0	0	0	0	64	0	0	
Ga	88	3	1	3	1	1	0		3	1

Explorer 108 Comp D022 August 2008

-150µm+106µm 15 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
0.1	0.0	1.7	0.1	0.0	0.0	6.3	91.9	100
5	0	31	5	0	2	69	96	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calcd	2.75	0.00	0.2	1.7	3	0.0	2.2
Actual		0.02	0.7	2.6		0.0	5.4

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga	
Mono	0	0	21	0	0	48	87	
Binary	100	0	56	45	0	52	11	
Ternary	0	0	20	48	100	0	2	
Quat.y+	0	0	3	7	0	0	0	
# Grains	1	0	10	3	0	9	96	1.19

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	100
MtHe	0		0	0	0	0	0
Sp	0	0		18	0	5	77
Gn	0	0	25		0	0	75
Cp	0	0	0	0		0	0
Tc	0	0	9	0	0		91
Ga	9	0	61	9	0	20	

TOTAL ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	100
MtHe	0		0	0	0	0	0
Sp	5	3		25	3	6	61
Gn	21	3	48		6	2	81
Cp	0	0	100	100		0	0
Tc	0	0	5	0	0		47
Ga	1	0	9	3	0	2	

of all

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat	
		Py	MtHe	Sp	Gn	Cp	Tc			Ga
Py	0	0	0	0	0	0	0	100	0	0
MtHe	0	0	0	0	0	0	0	0	0	0
Sp	21	0	0	10	0	3	44	20	3	
Gn	0	0	0	11	0	0	34	48	7	
Cp	0	0	0	0	0	0	0	0	100	0
Tc	48	0	0	5	0	0	47	0	0	
Ga	87	1	0	7	1	0	2		2	0



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-106µm+75µm 15 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
1.0	0.1	3.9	0.4	0.0	0.1	2.2	92.5	100
100	5	49	19	0	4	54	97	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calc'd	2.82	0.03	0.9	3.7	9	0.0	3.0
Actual		0.02	1.0	3.3		0.0	5.4

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	100	0	47	29	0	93	93
Binary	0	100	37	54	62	7	6
Ternary	0	0	13	14	0	0	1
Quat.y+	0	0	3	37	0	0	0
# Grains	1	1	7	2	1	4	95 1.11

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		0	0	0	0	100
Sp	0	0		32	6	0	61
Gn	0	0	80		0	0	20
Cp	0	0	50	0		0	50
Tc	0	0	0	0	0		100
Ga	0	17	32	0	17	33	

TOTAL ASSOCIATION MATRIX

of all

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		0	0	0	0	100
Sp	3	2		25	2	2	39
Gn	0	1	58		1	2	27
Cp	31	6	62	37		0	69
Tc	0	0	0	0	0		7
Ga	0	1	3	1	1	2	

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc		
Py	100	0	0	0	0	0	0	0	
MtHe	0	0	0	0	0	0	100	0	
Sp	47	0	0	12	2	0	23	13	
Gn	29	0	0	43	0	0	11	14	
Cp	0	0	0	31	0	0	31	0	
Tc	93	0	0	0	0	0	7	0	
Ga	93	0	1	2	0	1	2	0	

PARTICLE MINERALOGY REPORT

GJMCA 07.08.08

-75µm+53µm 11 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
0.5	0.0	6.1	0.0	0.0	0.0	4.3	89.2	100
45	0	72	22	0	5	85	98	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calc'd	2.82	0.00	0.1	5.9	5	0.0	2.5
Actual		0.03	1.4	3.8		0.0	5.4

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	0	0	57	40	0	94	98
Binary	100	0	35	46	33	6	2
Ternary	0	0	8	15	67	0	0
Quat.y+	0	0	0	0	0	0	0
# Grains	1	0	7	1	0	5	91 1.05

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	100
MtHe	0		0	0	0	0	0
Sp	0	0		37	4	0	59
Gn	0	0	87		0	0	13
Cp	0	0	100	0		0	0
Tc	0	0	0	0	0		100
Ga	31	0	28	0	0	42	

TOTAL ASSOCIATION MATRIX

of all

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	100
MtHe	0		0	0	0	0	0
Sp	0	0		19	4	0	27
Gn	0	0	49		3	5	18
Cp	0	0	100	33		0	33
Tc	0	0	0	0	0		6
Ga	1	0	1	0	0	1	

DISTRIBUTION MATRIX

	Free	Binary						Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc		
Py	0	0	0	0	0	0	100	0	
MtHe	0	0	0	0	0	0	0	0	
Sp	57	0	0	13	2	0	20	8	
Gn	40	0	0	40	0	0	6	15	
Cp	0	0	0	33	0	0	0	67	
Tc	94	0	0	0	0	0	6	0	
Ga	98	1	0	1	0	0	1	0	

**Explorer 108 Comp D022
August 2008**

-53µm+20µm 19 % by weight

Average composition - all grains

Py	MtHe	Sp	Gn	Te	Cp	Tc	Ga	n
1.1	0.8	4.8	2.0	0.0	0.0	4.6	86.8	100
55	37	79	56	0	6	57	95	

ASSAYS

	SG	Cu	Pb	Zn	Ag	As	Fe
Calc'd	2.93	0.00	4.5	4.4	32	0.0	3.8
Actual		0.04	2.3	4.2		0.0	5.5

COMPOSITE PROPORTIONS

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Mono	91	0	73	78	0	65	92
Binary	0	7	27	17	38	35	8
Ternary	9	93	0	5	27	0	0
Quat.y+	0	0	0	0	35	0	0
# Grains	2	2	7	2	0	8	91 1.12

BINARY ASSOCIATION MATRIX

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		0	0	0	0	0	0
MtHe	0		0	0	0	0	100
Sp	6	2		25	12	6	49
Gn	18	0	62		0	0	20
Cp	0	0	100	0		0	0
Tc	0	0	0	0	0		100
Ga	0	15	34	0	0	52	

TOTAL ASSOCIATION MATRIX

of all

	Py	MtHe	Sp	Gn	Cp	Tc	Ga
Py		9	0	0	0	0	9
MtHe	93		0	0	0	0	100
Sp	2	0		7	3	2	13
Gn	4	0	16		4	0	3
Cp	0	35	65	62		0	35
Tc	0	0	0	0	0		35
Ga	0	1	3	0	0	4	

DISTRIBUTION MATRIX

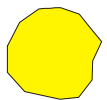
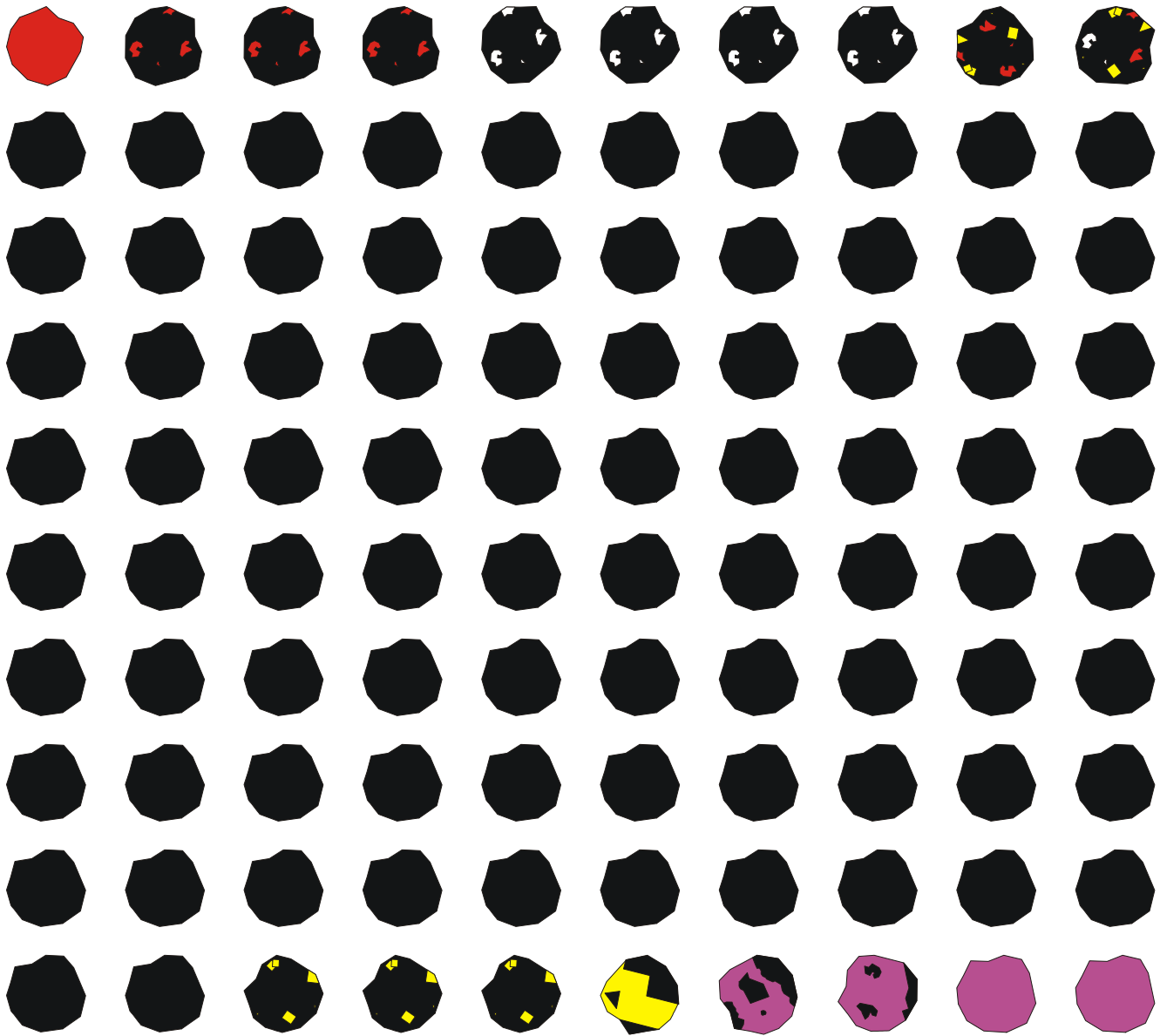
	Free	Binary						Tern	Quat
		Py	MtHe	Sp	Gn	Cp	Tc		
Py	91	0	0	0	0	0	0	9	
MtHe	0	0	0	0	0	0	0	7	
Sp	73	2	0	7	3	2	13	0	
Gn	78	3	0	11	0	0	3	5	
Cp	0	0	0	38	0	0	0	27	
Tc	65	0	0	0	0	0	35	0	
Ga	92	0	1	3	0	0	4	0	

Burnie Research Lab - Westgold Testwork

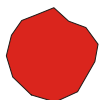
Explorer 108 Comp
D022

+212µm

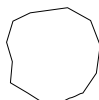
August 2008



Pyrite



Sphalerite



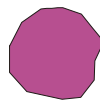
Galena



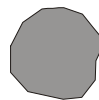
Chalcopyrite



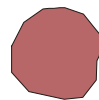
Tetrahedrite



Talc



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Hematite



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ABN 66 642 590 245

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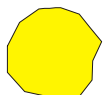
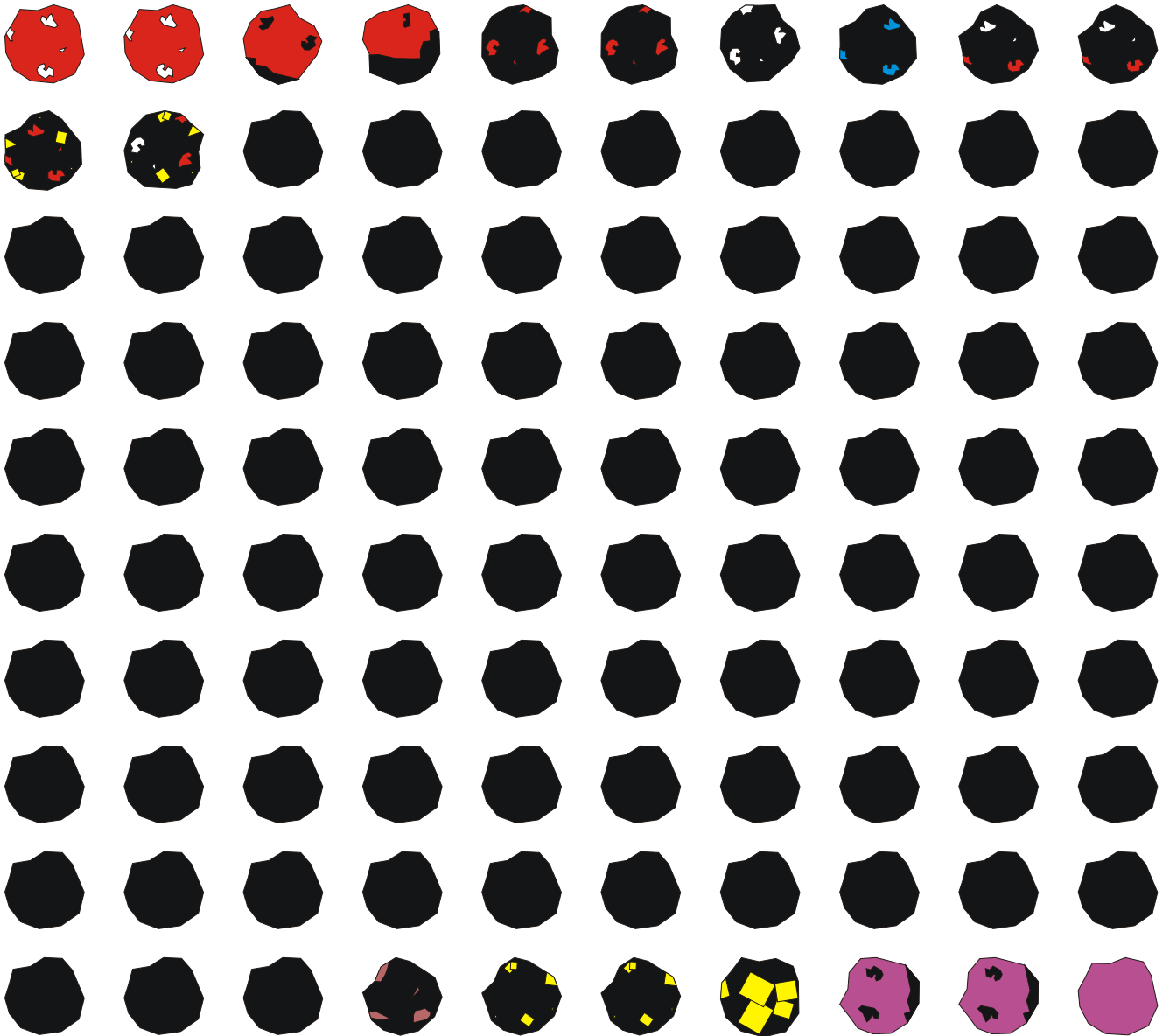
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Tel (03) 6431 1701 Fax (03) 6431 1278 Mobile 0419 367240 email gary@modapl.com.au

Burnie Research Lab - Westgold Testwork

Explorer 108 Comp
D022

-212µm+150µm

August 2008



Pyrite



Sphalerite



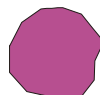
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



McArthur Ore Deposit Assessments Pty Ltd

ABN 66 642 590 245

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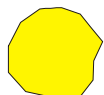
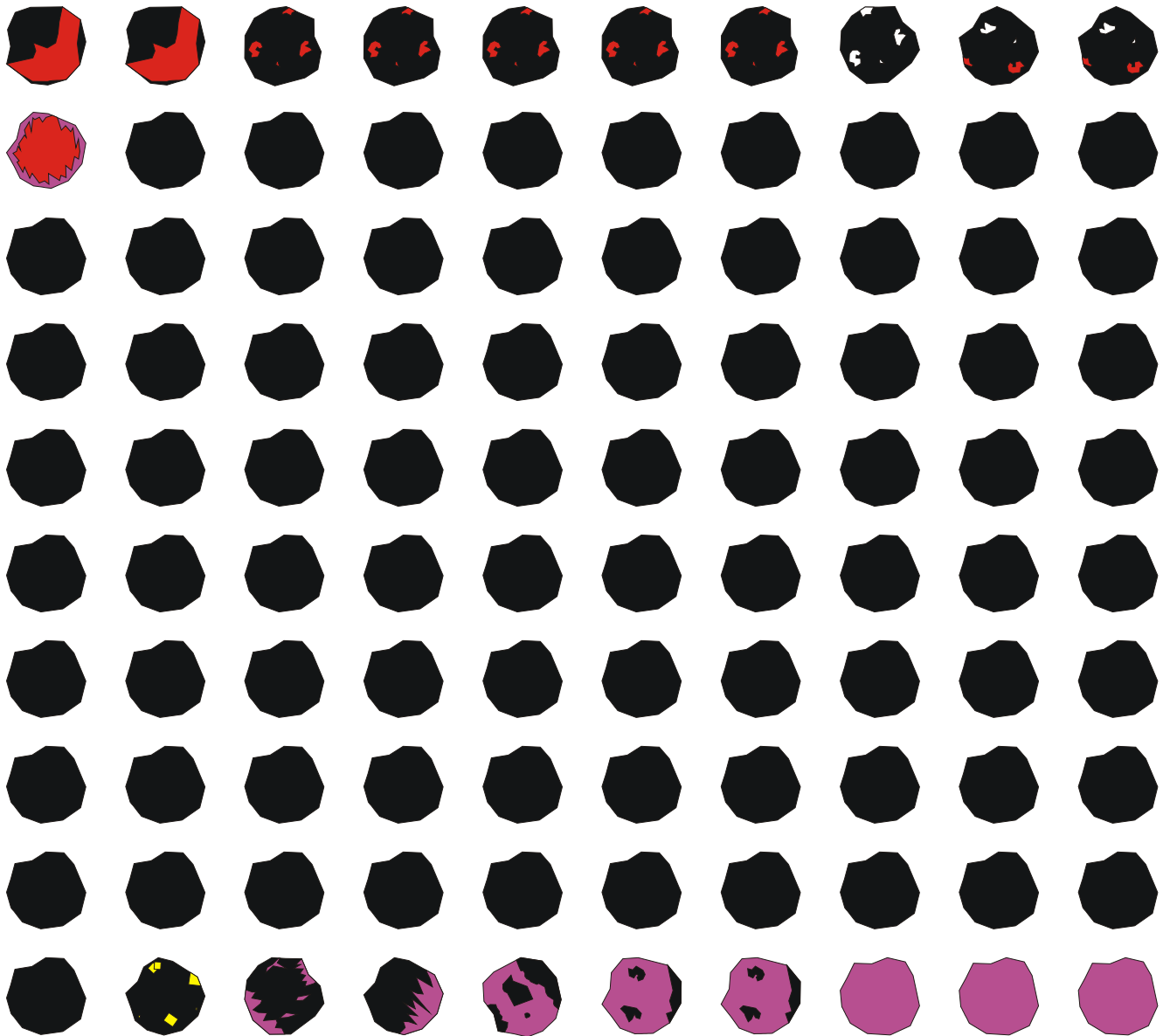
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Burnie Research Lab - Westgold Testwork

Explorer 108 Comp
D022

-150µm+106µm

August 2008



Pyrite



Sphalerite



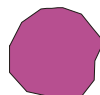
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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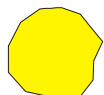
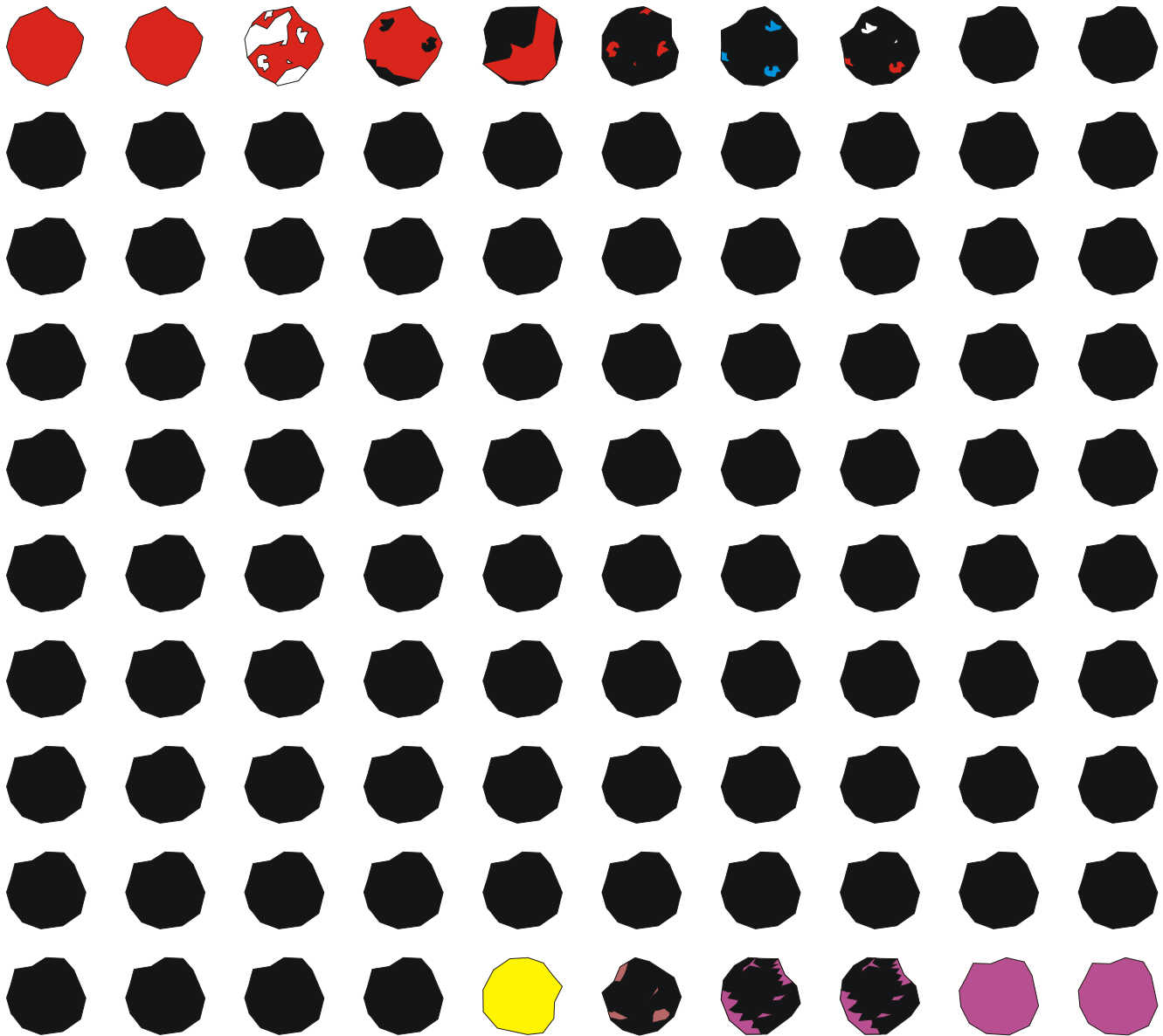
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Burnie Research Lab - Westgold Testwork

**Explorer 108 Comp
D022**

-106µm+75µm

August 2008



Pyrite



Sphalerite



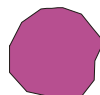
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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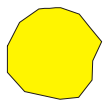
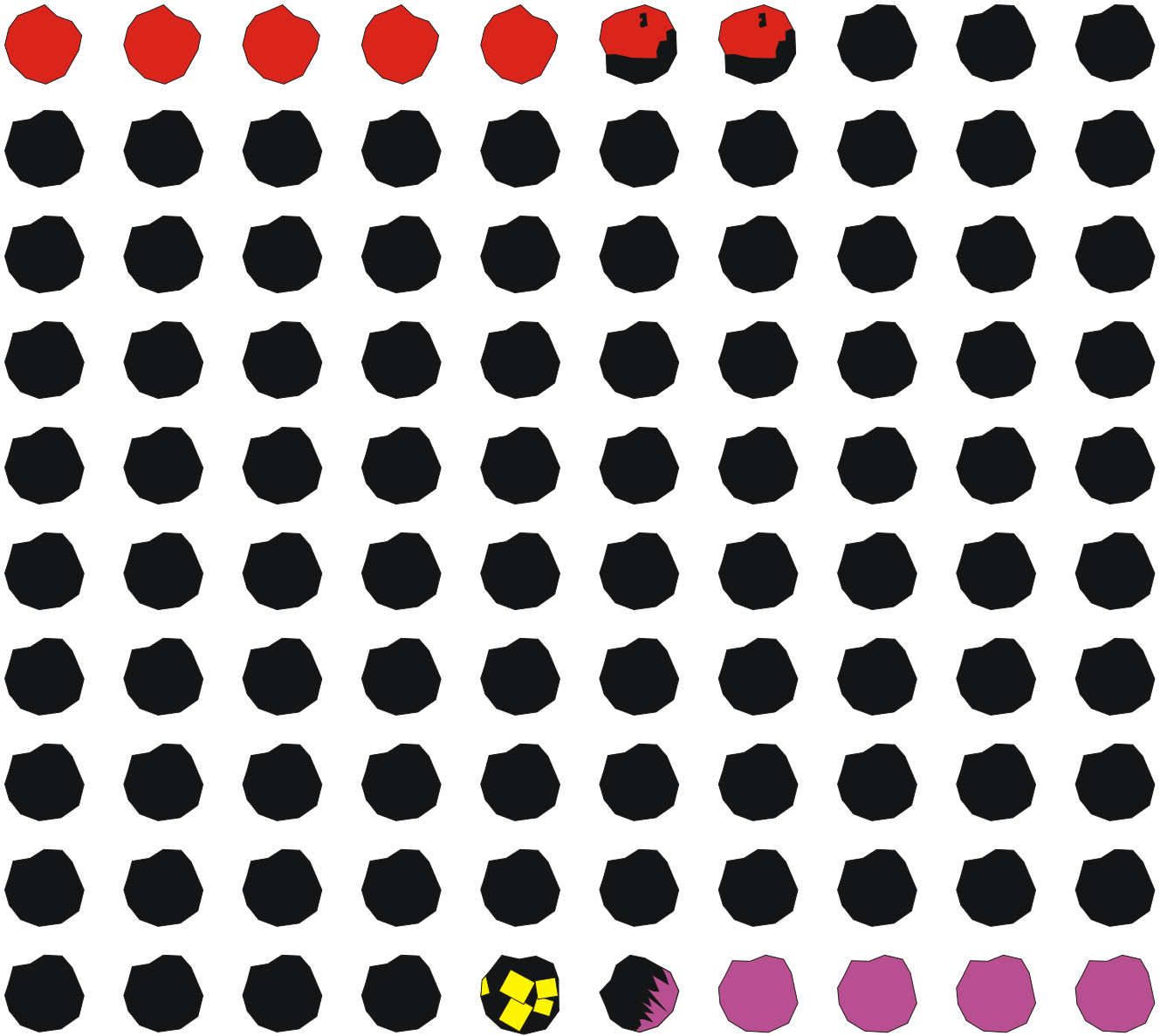
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Burnie Research Lab - Westgold Testwork

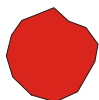
Explorer 108 Comp
D022

-75 μ m+53 μ m

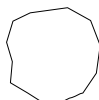
August 2008



Pyrite



Sphalerite



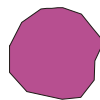
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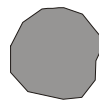
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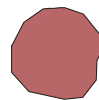
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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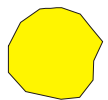
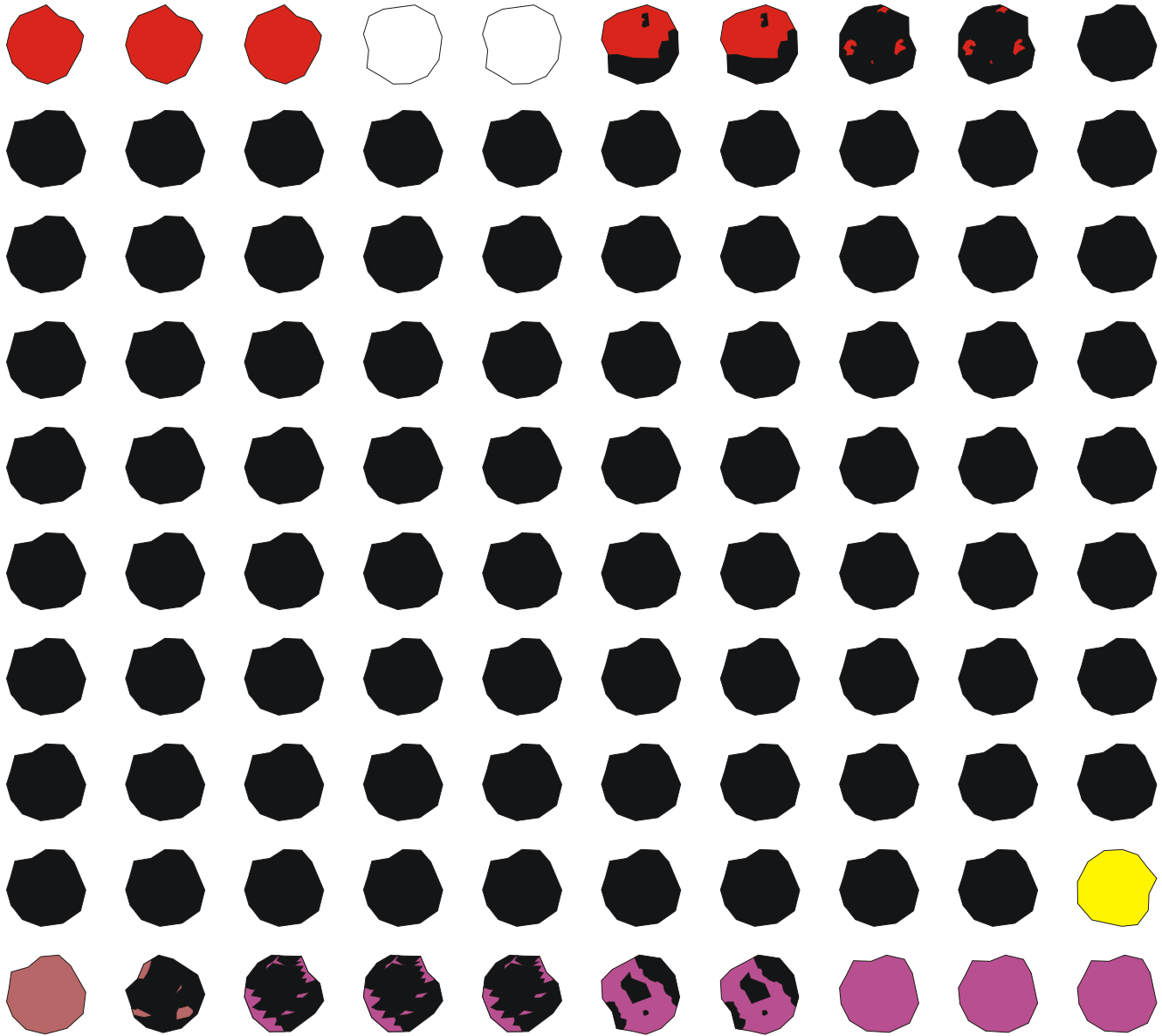
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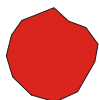
Explorer 108 Comp
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-53µm+20µm

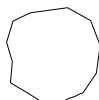
August 2008



Pyrite



Sphalerite



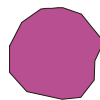
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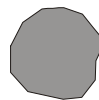
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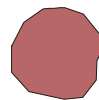
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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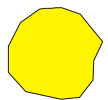
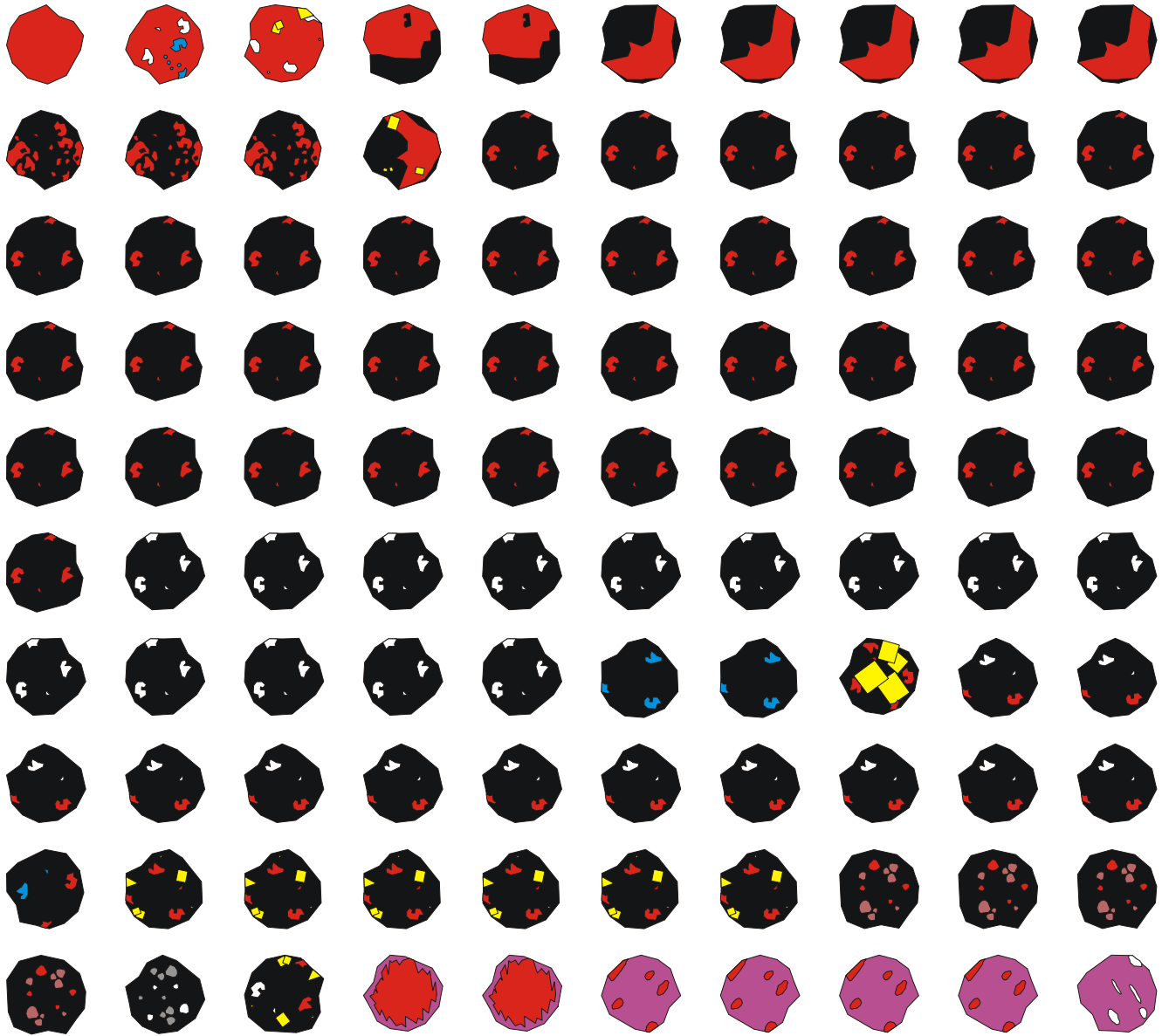
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Burnie Research Lab - Westgold Testwork

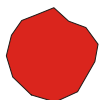
Explorer 108 Comp
D022 SpGnCpTe SCAN

+212µm

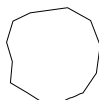
August 2008



Pyrite



Sphalerite



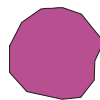
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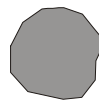
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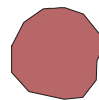
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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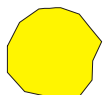
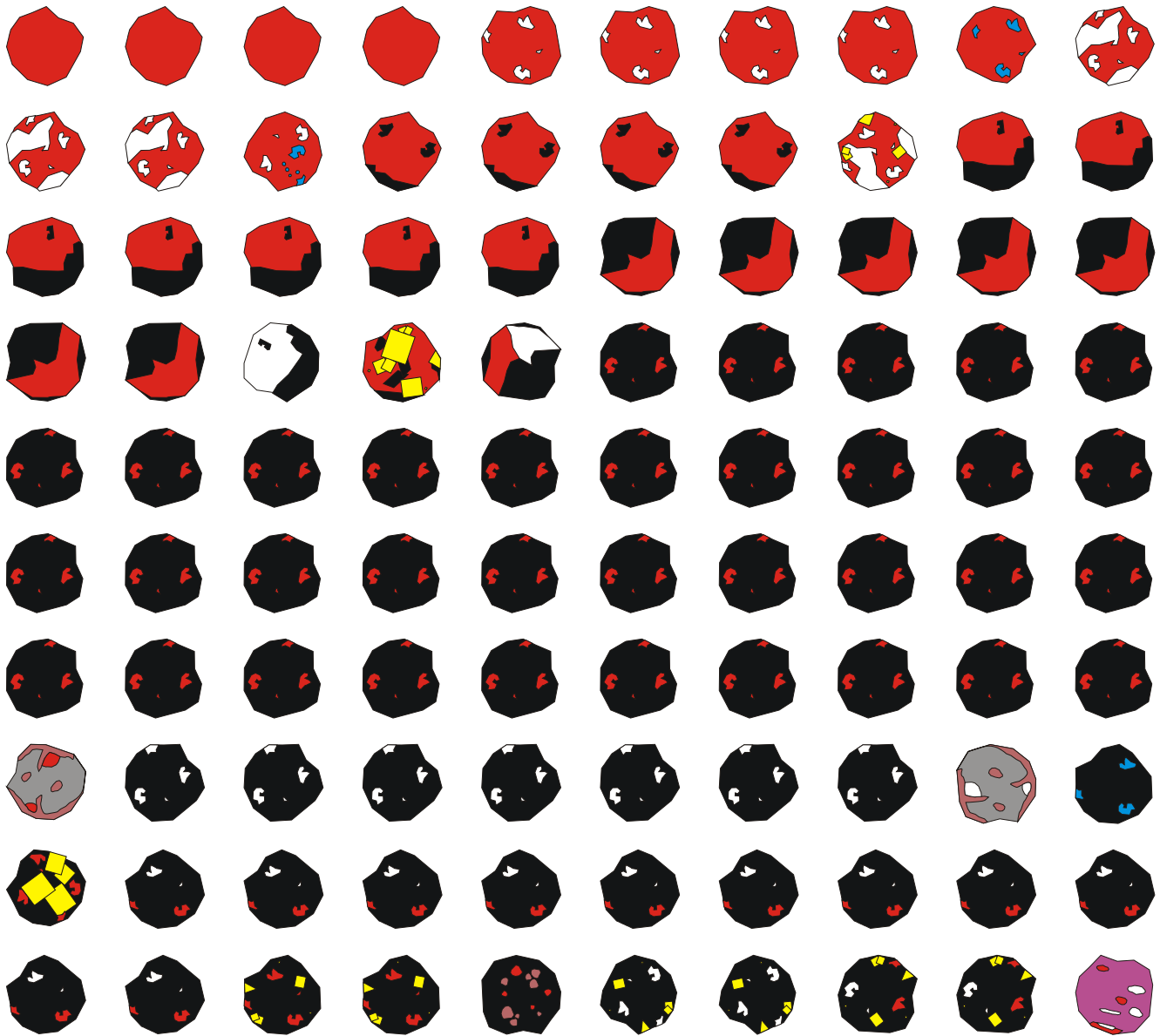
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Burnie Research Lab - Westgold Testwork

Explorer 108 Comp
D022 SpGnCpTe SCAN

-212µm+150µm

August 2008



Pyrite



Sphalerite



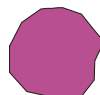
Galena



Chalcopyrite



Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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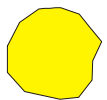
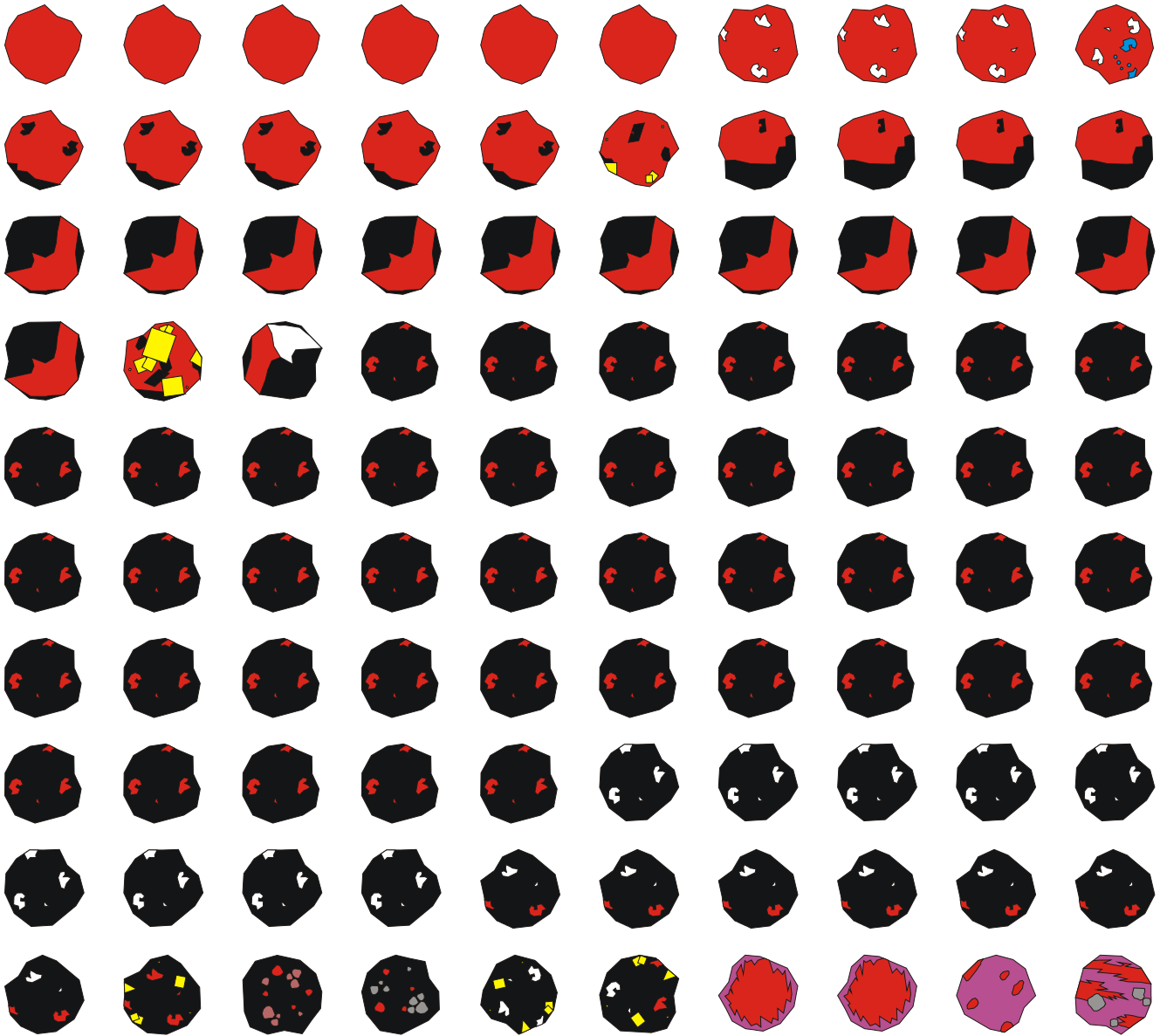
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Burnie Research Lab - Westgold Testwork

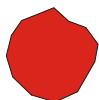
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D022 SpGnCpTe SCAN

-150 μ m+106 μ m

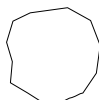
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Pyrite



Sphalerite



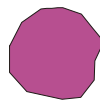
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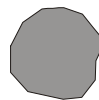
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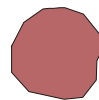
Tetrahedrite



Talc



Magnetite



Hematite



Gangue



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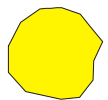
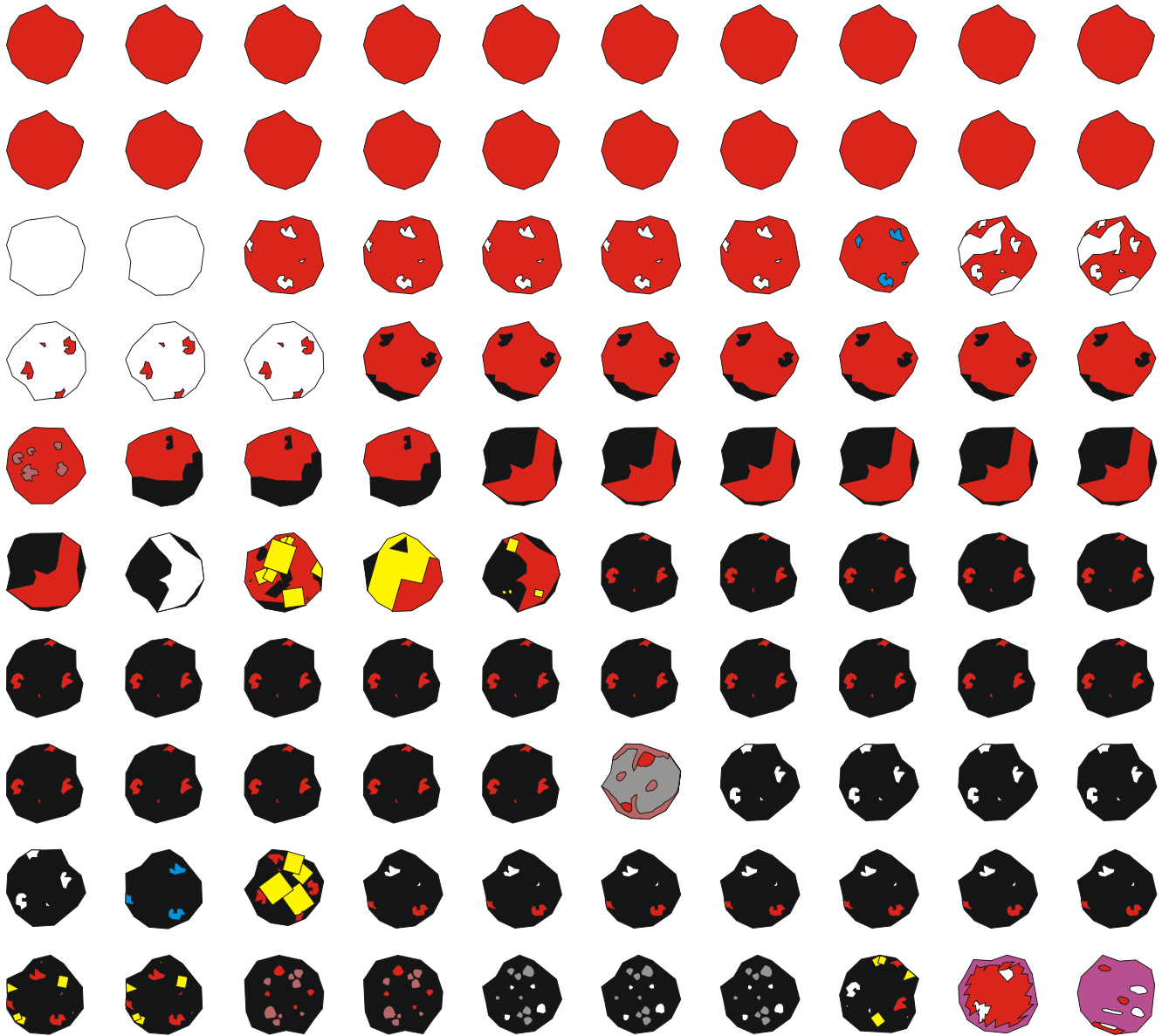
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Burnie Research Lab - Westgold Testwork

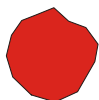
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D022 SpGnCpTe SCAN**

-106µm+75µm

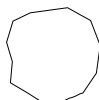
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Pyrite



Sphalerite



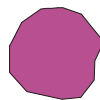
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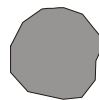
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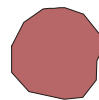
Tetrahedrite



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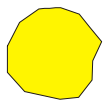
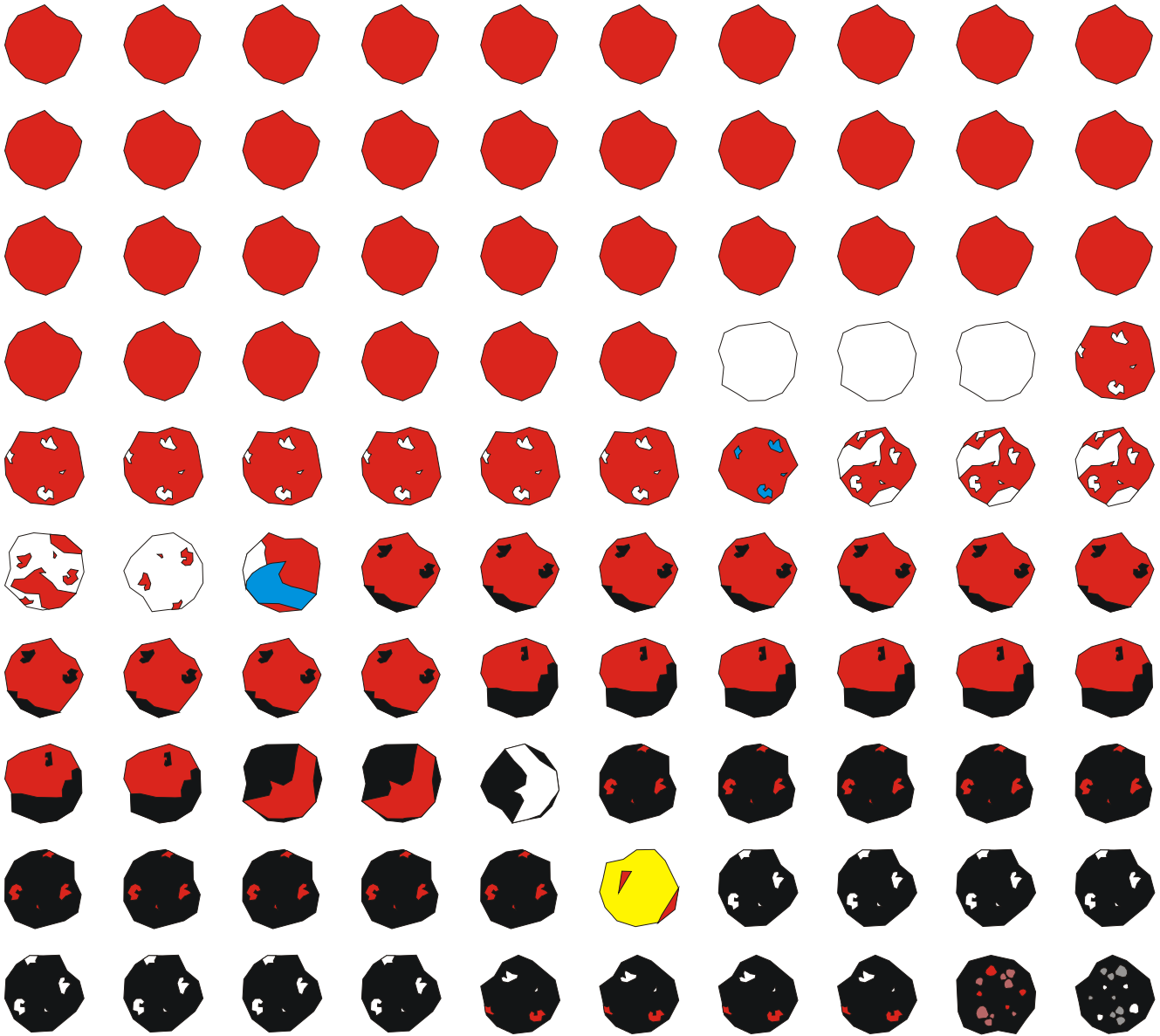
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Burnie Research Lab - Westgold Testwork

Explorer 108 Comp
D022 SpGnCpTe SCAN

-75 μ m+53 μ m

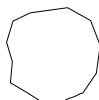
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Pyrite



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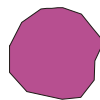
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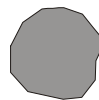
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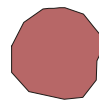
Tetrahedrite



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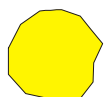
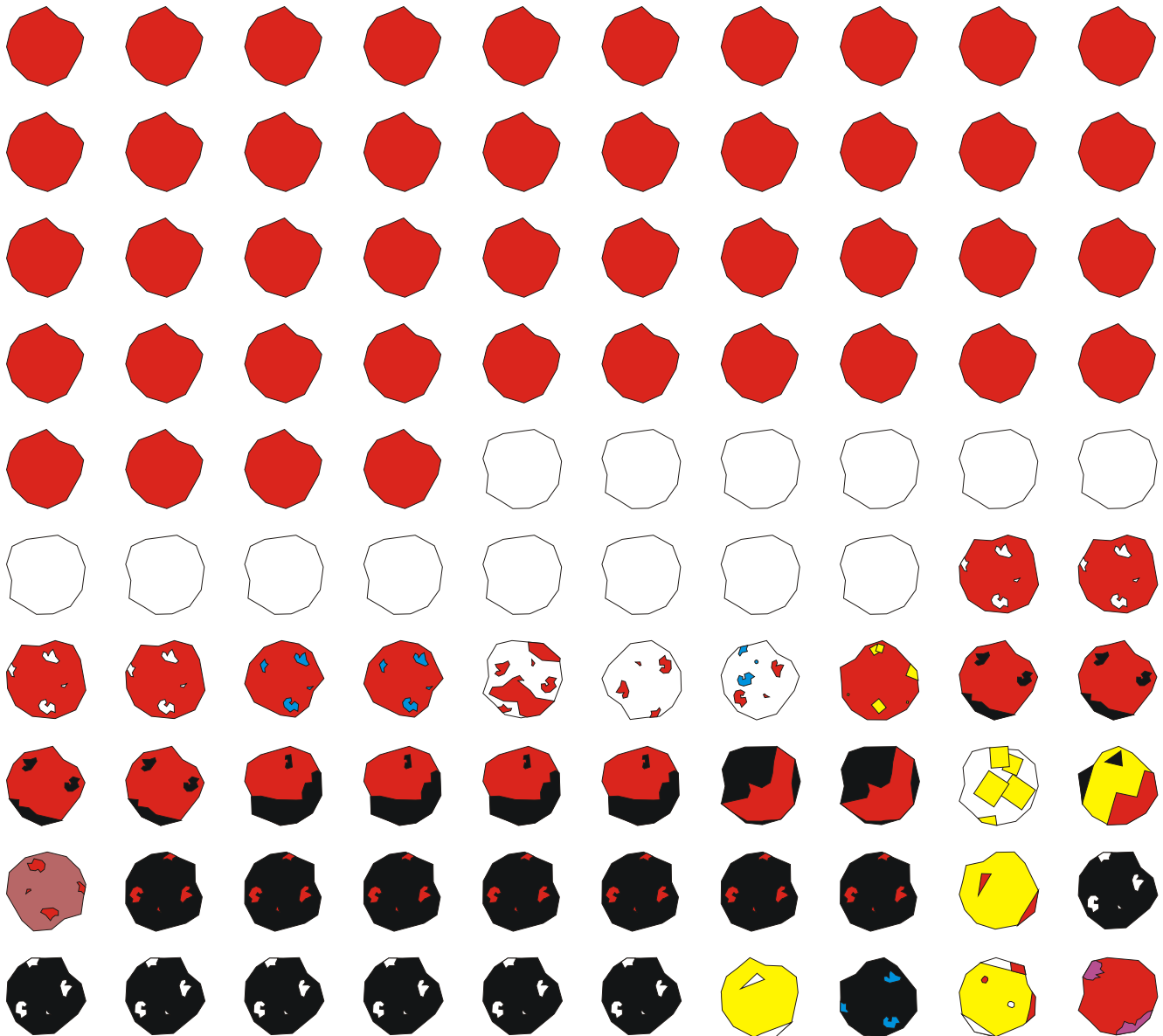
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Burnie Research Lab - Westgold Testwork

**Explorer 108 Comp
D022 SpGnCpTe SCAN**

-53µm+20µm

August 2008



Pyrite



Sphalerite



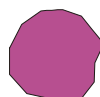
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Chalcopyrite



Tetrahedrite



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Gangue



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