

Caustic Fusion Diamond Report

Hudson Resources
 Attention: James Tuer
 PO #/Project:
 Samples: 12

June 29, 2005

- 1) Original Sample Weight in kilograms (SWT)
- 2) Bottom Sieve Size in microns (Sieve)
- 3) Diamonds > 500 microns (Macro)
- 4) Diamonds < 500 microns (Micro)
- 5) Weight of Diamonds > 500 microns in milligrams (Wt+)
- 6) Weight of Diamonds >75microns < 500 microns in milligrams (Wt-)
- 7) Number of QC/QA Tracers (-212+180microns) Recovered Fusion (QC 1)
- 8) Number of QC/QA Tracers (-300+250microns) Recovered Chemical Treatment (QC 2)
- 9) Number of synthetic diamonds recovered (whole and fragments) (SYN)

Sample #	SWT	Sieve	Macro	Micro	Wt+	Wt-	QC 1	QC 2	SYN
1D1	5.90	75	0	1	0	0.006	10/10	10/10	2
1D2	8.95	75	0	0	0	0	10/10	9/10	2
2-D1 1/2	6.55	75	0	0	0	0	8/10	10/10	0
2-D1 2/2	6.55	75	0	2	0	0.012	9/10	10/10	4
2-D2	7.60	75	0	0	0	0	10/10	10/10	5
2-D3	6.10	75	0	0	0	0	8/10	10/10	0
8-D 1/2	7.20	75	0	5	0	0.238	9/10	10/10	4
8-D 2/2	7.20	75	0	1	0	0.031	10/10	10/10	0
10-D 1/2	7.10	75	0	5	0	0.094	9/10	9/10	0
10-D 2/2	7.05	75	0	1	0	0.004	10/10	10/10	3
12-D 1/2	5.50	75	0	3	0	0.019	9/10	10/10	0
12-D 2/2	5.45	75	0	12	0	0.643	10/10	10/10	0

Caustic Fusion Diamond Description Detail

Hudson Resources
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June 29, 2005

Sample Number: 1D1

Original Sample Weight in kilograms (SWT)	5.90
Bottom Sieve Size in microns (Sieve)	75
Diamonds > 500 microns (Macro)	0
Diamonds < 500 microns (Micro)	1
Weight of Diamonds > 500 microns in milligrams (Wt+)	0
Weight of Diamonds >75microns < 500 microns in milligrams (Wt-)	0.006
Number of QC/QA Tracers (-212+180microns) Recovered Fusion (QC 1)	10/10
Number of QC/QA Tracers (-300+250microns) Recovered Chemical Treatment (QC 2)	10/10
Number of synthetic diamonds recovered (whole and fragments) (SYN)	2

Fraction Size Microns	Length mm	Width mm	Height mm	Individual	Total Diamond	Diamond Description
				Diamond Weight mg	Weight in Fractions mg	
+ 75	0.18	0.10	0.10		0.006	Colorless, clear, distorted diamond, resorbed.

Caustic Fusion Diamond Description Detail

Hudson Resources
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Sample Number: 2-D1 2/2

Original Sample Weight in kilograms (SWT)	6.55
Bottom Sieve Size in microns (Sieve)	75
Diamonds > 500 microns (Macro)	0
Diamonds < 500 microns (Micro)	2
Weight of Diamonds > 500 microns in milligrams (Wt+)	0
Weight of Diamonds >75microns < 500 microns in milligrams (Wt-)	0.012
Number of QC/QA Tracers (-212+180microns) Recovered Fusion (QC 1)	9/10
Number of QC/QA Tracers (-300+250microns) Recovered Chemical Treatment (QC 2)	10/10
Number of synthetic diamonds recovered (whole and fragments) (SYN)	4

Fraction Size Microns	Length mm	Width mm	Height mm	Individual	Total Diamond	Diamond Description
				Diamond Weight mg	Weight in Fractions mg	
+ 150	0.24	0.16	0.16		0.009	White, frosted, aggregate, rough.
+ 106	0.22	0.14	0.08		0.003	Colorless, clear, octahedron, none.

Caustic Fusion Diamond Description Detail

Hudson Resources
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Sample Number: 8-D 1/2

Original Sample Weight in kilograms (SWT)	7.20
Bottom Sieve Size in microns (Sieve)	75
Diamonds > 500 microns (Macro)	0
Diamonds < 500 microns (Micro)	5
Weight of Diamonds > 500 microns in milligrams (Wt+)	0
Weight of Diamonds >75microns < 500 microns in milligrams (Wt-)	0.238
Number of QC/QA Tracers (-212+180microns) Recovered Fusion (QC 1)	9/10
Number of QC/QA Tracers (-300+250microns) Recovered Chemical Treatment (QC 2)	10/10
Number of synthetic diamonds recovered (whole and fragments) (SYN)	4

Fraction Size Microns	Length mm	Width mm	Height mm	Individual	Total Diamond	Diamond Description
				Diamond Weight mg	Weight in Fractions mg	
+ 425	0.56	0.52	0.46		0.201	Colorless, included, dodecahedroid, broken, resorbed, hillocks.
+ 212	0.30	0.28	0.20		0.025	Colorless, frosted, dodecahedroid, resorbed, ribbed, serrate laminae.
+ 150	0.22	0.16	0.16		0.008	Colorless, clear, octahedron, twinned, serrate laminae, etched trigons.
+ 75	0.22	0.12	0.06		0.004	Colorless, frosted, fragment.
+ 75	0.18	0.14	0.08			Colorless, frosted, fragment.

Caustic Fusion Diamond Description Detail

Hudson Resources
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June 29, 2005

Sample Number: 8-D 2/2

Original Sample Weight in kilograms (SWT)	7.20
Bottom Sieve Size in microns (Sieve)	75
Diamonds > 500 microns (Macro)	0
Diamonds < 500 microns (Micro)	1
Weight of Diamonds > 500 microns in milligrams (Wt+)	0
Weight of Diamonds >75microns < 500 microns in milligrams (Wt-)	0.031
Number of QC/QA Tracers (-212+180microns) Recovered Fusion (QC 1)	10/10
Number of QC/QA Tracers (-300+250microns) Recovered Chemical Treatment (QC 2)	10/10
Number of synthetic diamonds recovered (whole and fragments) (SYN)	0

Fraction Size Microns	Length mm	Width mm	Height mm	Individual	Total Diamond	Diamond Description
				Diamond Weight mg	Weight in Fractions mg	
+ 150	0.44	0.42	0.14		0.031	Colorless, frosted, fragment, resorbed, hillocks, etched trigons.

Caustic Fusion Diamond Description Detail

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Sample Number: 10-D 1/2

Original Sample Weight in kilograms (SWT)	7.10
Bottom Sieve Size in microns (Sieve)	75
Diamonds > 500 microns (Macro)	0
Diamonds < 500 microns (Micro)	5
Weight of Diamonds > 500 microns in milligrams (Wt+)	0
Weight of Diamonds >75microns < 500 microns in milligrams (Wt-)	0.094
Number of QC/QA Tracers (-212+180microns) Recovered Fusion (QC 1)	9/10
Number of QC/QA Tracers (-300+250microns) Recovered Chemical Treatment (QC 2)	9/10
Number of synthetic diamonds recovered (whole and fragments) (SYN)	0

Fraction Size Microns	Length mm	Width mm	Height mm	Individual	Total Diamond	Diamond Description
				Diamond Weight mg	Weight in Fractions mg	
+ 212	0.62	0.28	0.14		0.086	Colorless, frosted, fragment, lamination.
+ 212	0.40	0.28	0.18			Colorless, clear, distorted diamond, ribbed, none.
+ 212	0.36	0.32	0.26			Colorless, frosted, dodecahedroid, broken, ribbed, serrate laminae, hillocks.
+ 106	0.28	0.16	0.12		0.008	Colorless, frosted, fragment, rough.
+ 106	0.20	0.12	0.06			Colorless, frosted, fragment, rough.

Caustic Fusion Diamond Description Detail

Hudson Resources
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June 29, 2005

Sample Number: 10-D 2/2

Original Sample Weight in kilograms (SWT)	7.05
Bottom Sieve Size in microns (Sieve)	75
Diamonds > 500 microns (Macro)	0
Diamonds < 500 microns (Micro)	1
Weight of Diamonds > 500 microns in milligrams (Wt+)	0
Weight of Diamonds >75microns < 500 microns in milligrams (Wt-)	0.004
Number of QC/QA Tracers (-212+180microns) Recovered Fusion (QC 1)	10/10
Number of QC/QA Tracers (-300+250microns) Recovered Chemical Treatment (QC 2)	10/10
Number of synthetic diamonds recovered (whole and fragments) (SYN)	3

Fraction Size Microns	Length mm	Width mm	Height mm	Individual	Total Diamond	Diamond Description
				Diamond Weight mg	Weight in Fractions mg	
+ 106	0.16	0.14	0.14		0.004	White, frosted, octahedroid, ribbed, serrate laminae.

Caustic Fusion Diamond Description Detail

Hudson Resources
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June 29, 2005

Sample Number: 12-D 1/2

Original Sample Weight in kilograms (SWT)	5.50
Bottom Sieve Size in microns (Sieve)	75
Diamonds > 500 microns (Macro)	0
Diamonds < 500 microns (Micro)	3
Weight of Diamonds > 500 microns in milligrams (Wt+)	0
Weight of Diamonds >75microns < 500 microns in milligrams (Wt-)	0.019
Number of QC/QA Tracers (-212+180microns) Recovered Fusion (QC 1)	9/10
Number of QC/QA Tracers (-300+250microns) Recovered Chemical Treatment (QC 2)	10/10
Number of synthetic diamonds recovered (whole and fragments) (SYN)	0

Fraction Size Microns	Length mm	Width mm	Height mm	Individual	Total Diamond	Diamond Description
				Diamond Weight mg	Weight in Fractions mg	
+ 212	0.28	0.24	0.20		0.017	Colorless, frosted, distorted diamond, ribbed, resorbed.
+ 75	0.12	0.12	0.06		0.002	Colorless, frosted, fragment, resorbed, none.
+ 75	0.12	0.08	0.06			Colorless, clear, octahedron, broken, ribbed.

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Sample Number: 12-D 2/2

Original Sample Weight in kilograms (SWT)	5.45
Bottom Sieve Size in microns (Sieve)	75
Diamonds > 500 microns (Macro)	0
Diamonds < 500 microns (Micro)	12
Weight of Diamonds > 500 microns in milligrams (Wt+)	0
Weight of Diamonds >75microns < 500 microns in milligrams (Wt-)	0.643
Number of QC/QA Tracers (-212+180microns) Recovered Fusion (QC 1)	10/10
Number of QC/QA Tracers (-300+250microns) Recovered Chemical Treatment (QC 2)	10/10
Number of synthetic diamonds recovered (whole and fragments) (SYN)	0

Fraction Size Microns	Length mm	Width mm	Height mm	Individual	Total Diamond	Diamond Description
				Diamond Weight mg	Weight in Fractions mg	
+ 300	0.76	0.58	0.40		0.602	Colorless, frosted, distorted diamond, resorbed, scratches.
+ 300	0.68	0.52	0.16			Colorless, frosted, macle, hillocks, pits.
+ 300	0.56	0.44	0.20			Colorless, clear, fragment, lamination.
+ 300	0.54	0.42	0.40			Colorless, frosted, octahedron, ribbed, serrate laminae, hillocks, pits.
+ 300	0.52	0.40	0.40			Colorless, frosted, aggregate, ribbed, serrate laminae, etched trigons.
+ 212	0.56	0.20	0.20		0.009	Colorless, clear, fragment, scratches.
+ 106	0.22	0.18	0.10		0.032	Colorless, frosted, octahedroid, twinned, resorbed.
+ 106	0.20	0.14	0.10			Colorless, clear, fragment, lamination.
+ 106	0.20	0.14	0.06			Colorless, clear, fragment, none.
+ 106	0.18	0.16	0.14			Colorless, frosted, octahedron, ribbed, twinned, serrate laminae, etched trigons.
+ 106	0.18	0.16	0.08			Colorless, frosted, fragment, none.
+ 106	0.16	0.16	0.08			Colorless, frosted, fragment, resorbed, none.