

Sample Origin	Age (million year)	Sample Identification	Sample Number	Mineral Phase	Spot Size (μM)	Mo (μg/g)
Cariaco Basin	modern sediment	1002B sec 3 65-80	1	Pyrite	10	891
Cariaco Basin	modern sediment	1002B sec 3 65-80	2	Pyrite	15	1163
Cariaco Basin	modern sediment	1002B sec 3 65-80	3	Pyrite	15	1239
Cariaco Basin	modern sediment	1002B sec 3 65-80	4	Matrix	25	163
Cariaco Basin	modern sediment	1002B sec 3 65-80	5	Matrix	50	160
Cariaco Basin	modern sediment	1002B sec 3 65-80	6	Matrix	50	90
Cariaco Basin	modern sediment	1002B sec 3 65-80	7	Matrix	100	112
Cariaco Basin	modern sediment	1002B sec 3 65-80	8	Matrix	15	193
Cariaco Basin	modern sediment	1002B sec 3 65-80	9	Matrix	100	131
Cariaco Basin	modern sediment	1002B sec 3 65-80	10	Matrix	100	107
Cariaco Basin	modern sediment	1002B sec 3 65-80	11	Matrix	25	92
Cariaco Basin	modern sediment	1002B sec 3 65-80	12	Matrix	50	179
Cariaco Basin	modern sediment	1002B sec 3 65-80	13	Matrix	50	83
Cariaco Basin	modern sediment	1002B sec 3 65-80	14	Matrix	100	141
Cariaco Basin	modern sediment	1002B sec 3 65-80	15	Matrix	15	137
Cariaco Basin	modern sediment	1002B sec 3 65-80	16	Matrix	100	106
Posidonia	~180	DO-PS-25	17	Pyrite	25	79
Posidonia	~180	DO-PS-25	18	Pyrite	20	91
Posidonia	~180	DO-PS-25	19	Pyrite	20	24
Posidonia	~180	DO-PS-25	20	Pyrite	20	72
Posidonia	~180	DO-PS-25	21	Pyrite	20	66
Posidonia	~180	DO-PS-25	22	Pyrite	20	69
Posidonia	~180	DO-PS-25	23	Pyrite	20	31
Posidonia	~180	DO-PS-25	24	Pyrite	20	61
Posidonia	~180	DO-PS-25	25	Pyrite	20	59
Posidonia	~180	DO-PS-25	26	Pyrite	20	72
Posidonia	~180	DO-PS-25	27	Pyrite	20	53
Posidonia	~180	DO-PS-25	28	Pyrite	20	73
Posidonia	~180	DO-PS-25	29	Pyrite	20	55
Posidonia	~180	DO-PS-25	30	Pyrite	20	84
Posidonia	~180	DO-PS-25	31	Pyrite	20	91
Posidonia	~180	DO-PS-25	32	Pyrite	10	92
Posidonia	~180	DO-PS-25	33	Pyrite	10	84
Posidonia	~180	DO-PS-25	34	Matrix	50	14
Posidonia	~180	DO-PS-25	35	Matrix	50	11
Posidonia	~180	DO-PS-25	36	Matrix	50	10
Posidonia	~180	DO-PS-25	37	Matrix	50	30
Posidonia	~180	DO-PS-25	38	Matrix	50	53
Posidonia	~180	DO-PS-25	39	Matrix	50	11

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Posidonia	~180	DO-PS-25	40	Matrix	50	14
Posidonia	~180	DO-PS-25	41	Matrix	50	11
Posidonia	~180	DO-PS-25	42	Matrix	50	13
Posidonia	~180	DO-PS-25	43	Matrix	50	12
Posidonia	~180	DO-PS-25	44	Matrix	50	38
Posidonia	~180	DO-PS-125	45	Pyrite	10	250
Posidonia	~180	DO-PS-125	46	Pyrite	10	176
Posidonia	~180	DO-PS-125	47	Pyrite	10	126
Posidonia	~180	DO-PS-125	48	Pyrite	10	105
Posidonia	~180	DO-PS-125	49	Pyrite	10	186
Posidonia	~180	DO-PS-125	50	Matrix	50	51
Posidonia	~180	DO-PS-125	51	Matrix	50	69
Posidonia	~180	DO-PS-125	52	Matrix	50	96
Posidonia	~180	DO-PS-125	53	Matrix	50	48
Doushantuo Formation	~580 to ~551	HN-15	54	Pyrite	10	165
Doushantuo Formation	~580 to ~551	HN-15	55	Pyrite	10	298
Doushantuo Formation	~580 to ~551	HN-15	56	Pyrite	10	473
Doushantuo Formation	~580 to ~551	HN-15	57	Pyrite	20	199
Doushantuo Formation	~580 to ~551	HN-15	58	Pyrite	10	177
Doushantuo Formation	~580 to ~551	HN-15	59	Pyrite	50	101
Doushantuo Formation	~580 to ~551	HN-15	60	Pyrite	10	135
Doushantuo Formation	~580 to ~551	HN-15	61	Pyrite	10	162
Doushantuo Formation	~580 to ~551	HN-15	62	Pyrite	10	206
Doushantuo Formation	~580 to ~551	HN-15	63	Pyrite	20	379
Doushantuo Formation	~580 to ~551	HN-15	64	Pyrite	10	331
Doushantuo Formation	~580 to ~551	HN-15	65	Pyrite	25	355
Doushantuo Formation	~580 to ~551	HN-15	66	Pyrite	20	268
Doushantuo Formation	~580 to ~551	HN-15	67	Pyrite	20	255
Doushantuo Formation	~580 to ~551	HN-15	68	Pyrite	10	240
Doushantuo Formation	~580 to ~551	HN-15	69	Pyrite	15	233
Doushantuo Formation	~580 to ~551	HN-15	70	Pyrite	15	409
Doushantuo Formation	~580 to ~551	HN-15	71	Pyrite	15	446
Doushantuo Formation	~580 to ~551	HN-15	72	Matrix	10	139
Doushantuo Formation	~580 to ~551	HN-15	73	Matrix	100	151
Doushantuo Formation	~580 to ~551	HN-15	74	Matrix	50	195
Doushantuo Formation	~580 to ~551	HN-15	75	Matrix	50	59
Doushantuo Formation	~580 to ~551	HN-15	76	Matrix	20	39
Doushantuo Formation	~580 to ~551	HN-15	77	Matrix	10	40

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Doushantuo Formation	~580 to ~551	HN-15	78	Matrix	10	51
Doushantuo Formation	~580 to ~551	HN-15	79	Matrix	20	76
Doushantuo Formation	~580 to ~551	HN-15	80	Matrix	10	42
Doushantuo Formation	~580 to ~551	HN-15	81	Matrix	20	85
Doushantuo Formation	~580 to ~551	HN-15	82	Matrix	20	54
Doushantuo Formation	~580 to ~551	HN-15	83	Matrix	10	38
Doushantuo Formation	~580 to ~551	HN-15	84	Matrix	10	339
Doushantuo Formation	~580 to ~551	HN-15	85	Matrix	50	174
Doushantuo Formation	~580 to ~551	HN-15	86	Matrix	50	152
Doushantuo Formation	~580 to ~551	HN-15	87	Matrix	10	268
Doushantuo Formation	~580 to ~551	HN-15	88	Matrix	100	209
Doushantuo Formation	~580 to ~551	HN-15	89	Matrix	100	204
Mount McRae Shale	~2500	ABDP-9 132.78	90	Pyrite	15	1
Mount McRae Shale	~2500	ABDP-9 132.78	91	Pyrite	35	1
Mount McRae Shale	~2500	ABDP-9 132.78	92	Pyrite	20	3
Mount McRae Shale	~2500	ABDP-9 132.78	93	Pyrite	20	4
Mount McRae Shale	~2500	ABDP-9 132.78	94	Pyrite	20	8
Mount McRae Shale	~2500	ABDP-9 132.78	95	Pyrite	20	6
Mount McRae Shale	~2500	ABDP-9 132.78	96	Pyrite	20	16
Mount McRae Shale	~2500	ABDP-9 132.78	97	Pyrite	20	7
Mount McRae Shale	~2500	ABDP-9 132.78	98	Pyrite	20	9
Mount McRae Shale	~2500	ABDP-9 132.78	99	Pyrite	20	15
Mount McRae Shale	~2500	ABDP-9 132.78	100	Pyrite	20	2
Mount McRae Shale	~2500	ABDP-9 132.78	101	Pyrite	20	1
Mount McRae Shale	~2500	ABDP-9 132.78	102	Pyrite	20	1
Mount McRae Shale	~2500	ABDP-9 132.78	103	Pyrite	20	1
Mount McRae Shale	~2500	ABDP-9 132.78	104	Pyrite	20	1
Mount McRae Shale	~2500	ABDP-9 132.78	105	Matrix	20	35
Mount McRae Shale	~2500	ABDP-9 132.78	106	Matrix	20	13
Mount McRae Shale	~2500	ABDP-9 132.78	107	Matrix	20	16
Mount McRae Shale	~2500	ABDP-9 132.78	108	Matrix	20	13
Mount McRae Shale	~2500	ABDP-9 144.36	109	Pyrite	20	2
Mount McRae Shale	~2500	ABDP-9 144.36	110	Pyrite	20	72
Mount McRae Shale	~2500	ABDP-9 144.36	111	Pyrite	10	1
Mount McRae Shale	~2500	ABDP-9 144.36	112	Pyrite	10	23
Mount McRae Shale	~2500	ABDP-9 144.36	113	Pyrite	10	67
Mount McRae Shale	~2500	ABDP-9 144.36	114	Pyrite	10	13
Mount McRae Shale	~2500	ABDP-9 144.36	115	Pyrite	20	50

Sample Origin	Age (million year)	Sample Identification	Sample Number	Mineral Phase	Spot Size (μM)	Mo (μg/g)
Mount McRae Shale	~2500	ABDP-9 144.36	116	Pyrite	20	20
Mount McRae Shale	~2500	ABDP-9 144.36	117	Pyrite	10	23
Mount McRae Shale	~2500	ABDP-9 144.36	118	Pyrite	10	61
Mount McRae Shale	~2500	ABDP-9 144.36	119	Pyrite	10	8
Mount McRae Shale	~2500	ABDP-9 144.36	120	Matrix	50	52
Mount McRae Shale	~2500	ABDP-9 144.36	121	Matrix	20	22
Mount McRae Shale	~2500	ABDP-9 144.36	122	Matrix	10	9
Mount McRae Shale	~2500	ABDP-9 144.36	123	Matrix	20	10
Mount McRae Shale	~2500	ABDP-9 144.36	124	Matrix	50	47
Mount McRae Shale	~2500	ABDP-9 144.36	125	Matrix	20	72
Mount McRae Shale	~2500	ABDP-9 144.36	126	Matrix	50	9
Mount McRae Shale	~2500	ABDP-9 144.36	127	Matrix	100	24
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	128	Pyrite	25	3.5
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	129	Pyrite	20	1.6
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	130	Pyrite	20	1.0
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	131	Pyrite	20	1.7
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	132	Pyrite	20	2.3
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	133	Pyrite	25	1.8
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	134	Pyrite	20	2.4
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	135	Pyrite	20	1.4
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	136	Matrix	100	0.8
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	137	Matrix	50	1.6
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	138	Matrix	50	0.5
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	139	Matrix	50	1.5
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	140	Matrix	50	0.4
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	141	Matrix	50	0.4
Transvaal Supergroup	~2650 to ~2500	GKF01 442.49	142	Matrix	50	1.9
Transvaal Supergroup	~2650 to ~2500	GKF01 620.88	143	Pyrite	20	0.1
Transvaal Supergroup	~2650 to ~2500	GKF01 620.88	144	Pyrite	20	1.1
Transvaal Supergroup	~2650 to ~2500	GKF01 620.88	145	Pyrite	15	1.5
Transvaal Supergroup	~2650 to ~2500	GKF01 620.88	146	Pyrite	25	1.0
Transvaal Supergroup	~2650 to ~2500	GKF01 620.88	147	Pyrite	50	1.0
Transvaal Supergroup	~2650 to ~2500	GKF01 620.88	148	Matrix	100	0.5
Transvaal Supergroup	~2650 to ~2500	GKF01 620.88	149	Matrix	20	0.9
Transvaal Supergroup	~2650 to ~2500	GKF01 620.88	150	Matrix	100	0.5
Transvaal Supergroup	~2650 to ~2500	GKF01 620.88	151	Matrix	20	0.6
Transvaal Supergroup	~2650 to ~2500	GKF01 620.88	152	Matrix	100	0.5
Transvaal Supergroup	~2650 to ~2500	GKF01 620.88	153	Matrix	100	0.5

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Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	154	Pyrite	15	2.1
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	155	Pyrite	15	3.5
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	156	Pyrite	20	1.9
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	157	Pyrite	10	2.4
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	158	Pyrite	10	0.9
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	159	Pyrite	10	4.9
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	160	Pyrite	10	0.8
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	161	Pyrite	22	4.6
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	162	Pyrite	15	1.0
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	163	Pyrite	15	0.7
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	164	Pyrite	22	1.4
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	165	Matrix	15	1.2
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	166	Matrix	50	0.5
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	167	Matrix	50	0.3
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	168	Matrix	100	0.3
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	169	Matrix	100	0.3
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	170	Matrix	100	0.3
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	171	Matrix	100	0.3
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	172	Matrix	100	0.5
Transvaal Supergroup	~2650 to ~2500	GKP01 637.72	173	Matrix	100	0.5