

# Supplementary Materials: Isotope Geochemistry of the Shenshuitan Gold Deposit within the Wulonggou Gold Field in the Eastern Kunlun Orogen, Northwest China: Implications for Metallogeny

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**Table S1.** Sample list in the Shenshuitan gold deposit.

No.	sample name	rock type	ore subtype	mineral assembly	location
1	XI-3390NCM29-B1	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 29 at Level 3390m
2	XI-3390NCM29-B2	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 29 at Level 3390m
3	XI-3390NCM29-B3	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 29 at Level 3390m
4	XI-3390NCM29-B4	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 29 at Level 3390m
5	XI-3390NCM29-B5	quartz calcite vein phyllitic brecciated granite	3	pyrite, galena, sphalerite, chalcopyrite, quartz, calcite, plagioclase, alkali feldspar	The tunnel on Line 29 at Level 3390m
6	XI-3390NCM29-B6	pyritized slate	2	pyrite, arsenopyrite, quartz, sericite, clay	The tunnel on Line 29 at Level 3390m
7	XI-3390NCM29-B7	quartz calcite vein phyllitic brecciated granite	3	pyrite, galena, sphalerite, chalcopyrite, quartz, calcite, plagioclase, alkali feldspar	The tunnel on Line 29 at Level 3390m
8	XI-3390NCM27-B1	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 27 at Level 3390m
9	XI-3390NCM27-B2	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 27 at Level 3390m
10	XI-3390NCM27-B3	pyritized slate	2	pyrite, arsenopyrite, quartz, sericite, clay	The tunnel on Line 27 at Level 3390m
11	XI-3390NCM17-B1	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 17 at Level 3390m
12	XI-3390NCM17-B2	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 17 at Level 3390m
13	XI-3390NCM11-B1	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 11 at Level 3390m
14	XI-3390NCM11-B2	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 11 at Level 3390m
15	XI-3390NCM11-B3	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 11 at Level 3390m
16	XI-3390NCM7-B1	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 7 at Level 3390m
17	XI-3390NCM7-B2	phyllitic brecciated granite	1	pyrite, arsenopyrite, quartz, sericite, plagioclase, alkali feldspar	The tunnel on Line 7 at Level 3390m
18	XI-3390NCM7-B3	pyritized slate	2	pyrite, arsenopyrite, quartz, sericite, clay	The tunnel on Line 7 at Level 3390m

**Table S2.** H and O isotope data of quartz and sericites from the Shenshuitan and Hongqigou gold deposits.

No.	sample name	rock types	ore subtype	mineral	$\delta D_{VSMOW}$	$\delta^{18}O_{VSMOW}$	$\delta^{18}D_{H_2O}\text{‰}$	$\delta^{18}O_{H_2O}\text{‰}$	average Th (°C)	ore district	references
1	XI-3390NCM7-B1	phyllitic rock	1	quartz	−110.6	4.6	−110.6	−3.8	262	Shenshuitan	This study
2	XI-3390NCM7-B2	phyllitic rock	1	quartz	−112.4	10.7	−112.4	2.3	262	Shenshuitan	This study
3	XI-3390NCM7-B3	phyllitic rock	2	quartz	−112.3	12.0	−112.3	3.6	262	Shenshuitan	This study
4	XI-3390NCM11-B1	phyllitic rock	1	quartz	−103.6	11.2	−103.6	2.8	262	Shenshuitan	This study
5	XI-3390NCM11-B3	phyllitic rock	1	quartz	−113.9	11.3	−113.9	2.9	262	Shenshuitan	This study
6	XI-3390NCM17-B2	phyllitic rock	1	sericite	−93.1	5.5	−73.1	0.9	262	Shenshuitan	This study

7	XI-SDNCM3-B2-1	phyllitic rock	sericite	−89.7	7.6	−69.7	3.0	262	Shenshuitan	Song 2019
8	XI-SDNCM3-B7	phyllitic rock	sericite	−88.3	5.9	−68.3	1.3	262	Shenshuitan	Song 2019
9	XI-SDNCM3-B8A	phyllitic rock	sericite	−94.5	5.7	−74.5	1.1	262	Shenshuitan	Song 2019
10	WL23-5	phyllitic rock	quartz	−87.0	15.1	−87.0	6.7	262	Shenshuitan	Zhang et al., 2017
11	WL29-5	phyllitic rock	quartz	−90.0	11.6	−90.0	3.2	262	Shenshuitan	Zhang et al., 2017
12	WL26-4-1	phyllitic rock	quartz	−107.0	11.3	−107.0	2.9	262	Shenshuitan	Zhang et al., 2017
13	WL26-4-2	phyllitic rock	quartz	−82.0	11.7	−82.0	3.3	262	Shenshuitan	Zhang et al., 2017
14	WL43-1	phyllitic rock	quartz	−97.0	10.8	−97.0	2.4	262	Shenshuitan	Zhang et al., 2017
15	WL44-1	phyllitic rock	quartz	−63.0	13.2	−63.0	4.8	262	Shenshuitan	Zhang et al., 2017
16	SZDG-ZK9302-OH1	phyllitic rock	quartz	−93.6	12.0	−93.6	3.6	262	Shenshuitan	Zhang 2018
17	SZDG-3270-CO1	phyllitic rock	quartz	−97.2	11.9	−97.2	3.5	262	Shenshuitan	Zhang 2018
18	SZDG-3270-CO4	phyllitic rock	quartz	−105.7	13.1	−105.7	4.7	262	Shenshuitan	Zhang 2018
19	SZDG-3270-CO5	phyllitic rock	quartz	−84.6	10.1	−84.6	1.7	262	Shenshuitan	Zhang 2018
20	SZDG-ZK9302-CO6	phyllitic rock	quartz	−98.0	11.0	−98.0	2.6	262	Shenshuitan	Zhang 2018
21	337000PD01-B2-Q	quartz vein	quartz	−91.1	14.7	−91.1	6.2	262	Hongqigou	Cheng 2020
22	3810PD301-B4-Q	quartz vein	quartz	−80.4	13.9	−80.4	5.5	262	Hongqigou	Cheng 2020
23	3810PD301-B5-Q	quartz vein	quartz	−87.8	13.9	−87.8	5.5	262	Hongqigou	Cheng 2020
24	3810PD301-B7-Q	quartz vein	quartz	−85.5	14.4	−85.5	6.0	262	Hongqigou	Cheng 2020
25	3810PD301-B8-Q	quartz vein	quartz	−121.5	12.8	−121.5	4.4	262	Hongqigou	Cheng 2020

**Table S3.** Bulk sulfur isotope data of sulfides from the Shenshuitan and Hongqigou gold deposits.

No.	sample	rock type	ore subtype	mineral	$\delta^{34}\text{S}_{\text{CDT}}(\text{‰})$	$\delta^{34}\text{S}_{\text{H2S}}(\text{‰})$	ore district	references
1	XI-3390NCM11-B1Apy	phyllitic brecciated granite	1	arsenopyrite	1.0		Shenshuitan	this study
2	XI-3390NCM11-B1Po	phyllitic brecciated granite	1	pyrrhotite	0.7	0.4	Shenshuitan	this study
3	XI-3390NCM11-B1Py	phyllitic brecciated granite	1	pyrite	−1.6	−3.0	Shenshuitan	this study
4	XI-3390NCM11-B2Apy	phyllitic brecciated granite	1	arsenopyrite	1.3		Shenshuitan	this study
5	XI-3390NCM11-B2Po	phyllitic brecciated granite	1	pyrrhotite	−0.7	−1.0	Shenshuitan	this study
6	XI-3390NCM11-B2Py	phyllitic brecciated granite	1	pyrite	−0.2	−1.6	Shenshuitan	this study
7	XI-3390NCM11-B3Apy	phyllitic brecciated granite	1	arsenopyrite	1.7		Shenshuitan	this study
8	XI-3390NCM11-B3Py	phyllitic brecciated granite	1	pyrite	1.3	−0.1	Shenshuitan	this study
9	XI-3390NCM17-B1Py	phyllitic brecciated granite	1	pyrite	−7.3	−8.7	Shenshuitan	this study
10	XI-3390NCM17-B2Apy	phyllitic brecciated granite	1	arsenopyrite	0.2		Shenshuitan	this study
11	XI-3390NCM17-B2Po	phyllitic brecciated granite	1	pyrrhotite	−2.6	−2.9	Shenshuitan	this study
12	XI-3390NCM17-B2Py	phyllitic brecciated granite	1	pyrite	−2.1	−3.5	Shenshuitan	this study
13	XI-3390NCM27-B1Py	phyllitic brecciated granite	1	pyrite	−3.7	−5.1	Shenshuitan	this study
14	XI-3390NCM27-B2Apy	phyllitic brecciated granite	1	arsenopyrite	4.9		Shenshuitan	this study
15	XI-3390NCM27-B3Apy	pyritized slate	2	arsenopyrite	5.4		Shenshuitan	this study
16	XI-3390NCM27-B3Po	pyritized slate	2	pyrrhotite	7.1	6.8	Shenshuitan	this study
17	XI-3390NCM29-B1Po	phyllitic brecciated granite	1	pyrrhotite	6.3	6.0	Shenshuitan	this study
18	XI-3390NCM29-B1Py	phyllitic brecciated granite	1	pyrite	6.2	4.8	Shenshuitan	this study
19	XI-3390NCM29-B2Apy	phyllitic brecciated granite	1	arsenopyrite	1.8		Shenshuitan	this study
20	XI-3390NCM29-B2Py	phyllitic brecciated granite	1	pyrite	3	1.6	Shenshuitan	this study
21	XI-3390NCM29-B3Apy	phyllitic brecciated granite	1	arsenopyrite	0.7		Shenshuitan	this study

22	XI-3390NCM29-B3Py	phyllitic brecciated granite	1	pyrite	0.5	−0.9	Shenshuitan	this study
23	XI-3390NCM29-B4Apy	phyllitic brecciated granite	1	arsenopyrite	1.6		Shenshuitan	this study
24	XI-3390NCM29-B4Po	phyllitic brecciated granite	1	pyrrhotite	0.9	0.6	Shenshuitan	this study
25	XI-3390NCM29-B4Py	phyllitic brecciated granite	1	pyrite	0.3	−1.1	Shenshuitan	this study
26	XI-3390NCM29-B5Gn	quartz calcite vein in phyllitic brecciated granite	3	galena	3.3	5.5	Shenshuitan	this study
27	XI-3390NCM29-B5Py	quartz calcite vein in phyllitic brecciated granite	3	pyrite	4	2.6	Shenshuitan	this study
28	XI-3390NCM29-B5Sp	quartz calcite vein in phyllitic brecciated granite	3	sphalerite	4.4	4.1	Shenshuitan	this study
29	XI-3390NCM29-B6Po	pyritized slate	2	pyrrhotite	8.3	8.0	Shenshuitan	this study
30	XI-3390NCM29-B6Py	pyritized slate	2	pyrite	9.6	8.2	Shenshuitan	this study
31	XI-3390NCM29-B7Gn	quartz calcite vein in phyllitic brecciated granite	3	galena	3	5.2	Shenshuitan	this study
32	XI-3390NCM29-B7Py	quartz calcite vein in phyllitic brecciated granite	3	pyrite	4.4	3.0	Shenshuitan	this study
33	XI-3390NCM29-B7Sp	quartz calcite vein in phyllitic brecciated granite	3	sphalerite	5.7	5.4	Shenshuitan	this study
34	XI-3390NCM7-B1Apy	phyllitic brecciated granite	1	arsenopyrite	2.8		Shenshuitan	this study
35	XI-3390NCM7-B1Po	phyllitic brecciated granite	1	pyrrhotite	3.5	3.2	Shenshuitan	this study
36	XI-3390NCM7-B1Py	phyllitic brecciated granite	1	pyrite	1.9	0.5	Shenshuitan	this study
37	XI-3390NCM7-B2Py	phyllitic brecciated granite	1	pyrite	3.1	1.7	Shenshuitan	this study
38	XI-3390NCM7-B3Gn	pyritized slate	2	galena	2.8	5.0	Shenshuitan	this study
39	XI-3390NCM7-B3Po	pyritized slate	2	pyrrhotite	5.8	5.5	Shenshuitan	this study
40	XI-3390NCM7-B3Py	pyritized slate	2	pyrite	5.4	4.0	Shenshuitan	this study
41	XI-3390NCM7-B3Sp	pyritized slate	2	sphalerite	6.6	6.3	Shenshuitan	this study
42	XI-SDNCM3-B1	phyllitic rock		pyrite	4.4	3.0	Shenshuitan	Liu 2017
43	XI-SDNCM3-B2-1	phyllitic rock		pyrite	3.7	2.3	Shenshuitan	Liu 2017
44	XI-SDNCM3-B5	phyllitic rock		pyrite	5.4	4.0	Shenshuitan	Liu 2017
45	XI-SDNCM3-B7	phyllitic rock		pyrite	5.9	4.5	Shenshuitan	Liu 2017
46	XI-SDNCM3-B8	phyllitic rock		pyrite	4.2	2.8	Shenshuitan	Liu 2017
47	HLG-PD3450-19-S3	phyllitic rock		pyrite	0.4	−1.0	Shenshuitan	Liu 2017
48	HLG-PD3450-25-S1	phyllitic rock		pyrite	1	−0.4	Shenshuitan	Liu 2017
49	HLG-PD3450-3-S6	phyllitic rock		pyrite	8.5	7.1	Shenshuitan	Liu 2017
67	SZDG-ZK9104-S1	phyllitic rock		pyrite	4	2.6	Shenshuitan	Liu 2017
68	SZDG-ZK9104-S2	phyllitic rock		pyrite	4.4	3.0	Shenshuitan	Liu 2017
69	SZDG-ZK9302-S2	phyllitic rock		pyrite	5.2	3.8	Shenshuitan	Liu 2017
70	SZDG-ZK9302-S3	phyllitic rock		pyrite	3.8	2.4	Shenshuitan	Liu 2017
71	SZDG-ZK9302-S4	phyllitic rock		pyrite	3.4	2.0	Shenshuitan	Liu 2017
50	WL23-1	phyllitic rock		Pyrite	3.6	2.2	Shenshuitan	Zhang et al. 2017
51	WL23-1a	phyllitic rock		Pyrite	3.4	2.0	Shenshuitan	Zhang et al. 2017
52	WL24-3	phyllitic rock		Pyrite	4.1	2.7	Shenshuitan	Zhang et al. 2017
53	WL25-1	phyllitic rock		arsenopyrite	2.7		Shenshuitan	Zhang et al. 2017
54	WL25-1a	phyllitic rock		arsenopyrite	2.7		Shenshuitan	Zhang et al. 2017
55	WL27-1	phyllitic rock		Pyrite	2.3	0.9	Shenshuitan	Zhang et al. 2017
56	WL28-1	phyllitic rock		Pyrite	1	−0.4	Shenshuitan	Zhang et al. 2017
57	WL28-2-1	phyllitic rock		arsenopyrite	3.1		Shenshuitan	Zhang et al. 2017
58	WL28-2-2	phyllitic rock		arsenopyrite	2.7		Shenshuitan	Zhang et al. 2017
59	WL29-1	phyllitic rock		Pyrite	5	3.6	Shenshuitan	Zhang et al. 2017
60	WL30-3	quartz vein		Galena	3	5.2	Shenshuitan	Zhang et al. 2017

61	WL30-5	phyllic rock	Pyrite	6.9	5.5	Shenshuitan	Zhang et al. 2017
62	WL31-1	phyllic rock	Pyrite	7.9	6.5	Shenshuitan	Zhang et al. 2017
63	WL45-1	phyllic rock	Pyrite	5.4	4.0	Shenshuitan	Zhang et al. 2017
64	WL43-1	phyllic rock	Pyrite	4.8	3.4	Shenshuitan	Zhang et al. 2017
65	WL43-1a	phyllic rock	Pyrite	5	3.6	Shenshuitan	Zhang et al. 2017
66	WL40-1	quartz vein	Galena	3.9	6.1	Shenshuitan	Zhang et al. 2017
72	337000PD01-B2-Py	quartz vein	pyrite	11.94	10.5	Hongqigou	Cheng 2020
73	337000PD01-B3-Py	quartz vein	pyrite	10.53	9.1	Hongqigou	Cheng 2020
74	3810PD301-B1-Py	quartz vein	pyrite	4.50	3.1	Hongqigou	Cheng 2020
75	3810PD301-B3-Py	quartz vein	pyrite	11.76	10.4	Hongqigou	Cheng 2020
76	3810PD301-B4-Py	quartz vein	pyrite	11.62	10.2	Hongqigou	Cheng 2020
77	3810PD301-B5-Py	quartz vein	pyrite	12.87	11.5	Hongqigou	Cheng 2020
78	3810PD301-B6-Py	quartz vein	pyrite	9.31	7.9	Hongqigou	Cheng 2020
79	3810PD301-B7-Py	quartz vein	pyrite	12.17	10.8	Hongqigou	Cheng 2020

**Table S4.** In situ multiple sulfur isotope data using SIMS of sulfides from the Shenshuitan gold deposit.

analysis spot	sample name	ore subtype	sulfide phase	$\delta^{33}\text{S}$	2s	$\delta^{34}\text{S}$	2s	$\delta^{36}\text{S}$	2s	$\Delta^{33}\text{S}$	2s	$\Delta^{36}\text{S}$	2s
Mount1_1@01	XI-3390NCM7-B1	1	pyrite	1.38	0.16	2.90	0.19	5.29	0.99	-0.11	0.14	-0.25	0.89
Mount1_1@02	XI-3390NCM7-B1	1	pyrite	2.22	0.19	4.46	0.19	8.60	0.98	-0.08	0.18	0.07	0.87
Mount1_1@03	XI-3390NCM7-B1	1	pyrite	1.63	0.15	3.37	0.19	6.55	0.97	-0.10	0.14	0.10	0.86
Mount1_1@04	XI-3390NCM7-B1	1	pyrite	1.64	0.17	3.40	0.19	6.00	0.97	-0.11	0.15	-0.50	0.86
Mount1_1@05	XI-3390NCM7-B1	1	pyrite	2.25	0.16	4.25	0.19	8.35	0.97	0.06	0.15	0.22	0.87
Mount1_1@06	XI-3390NCM7-B1	1	pyrite	1.45	0.17	2.93	0.19	5.59	1.06	-0.06	0.15	-0.01	0.96
Mount1_1@07	XI-3390NCM7-B1	1	pyrite	1.85	0.16	3.62	0.19	6.65	0.98	-0.01	0.15	-0.27	0.87
Mount1_1@08	XI-3390NCM7-B1	1	pyrite	1.29	0.16	2.72	0.19	5.29	0.97	-0.11	0.14	0.09	0.86
Mount1_1@09	XI-3390NCM7-B1	1	pyrite	2.00	0.16	3.86	0.19	7.21	1.02	0.01	0.15	-0.18	0.92
Mount1_1@10	XI-3390NCM7-B1	1	pyrite	2.15	0.16	4.19	0.19	7.92	0.97	-0.01	0.14	-0.09	0.86
Mount1_2@01	XI-3390NCM7-B1	1	pyrite	1.27	0.17	2.70	0.19	4.56	0.96	-0.12	0.15	-0.59	0.86
Mount1_2@02	XI-3390NCM7-B1	1	pyrite	1.32	0.15	2.59	0.19	4.43	0.96	-0.02	0.14	-0.52	0.85
Mount1_2@03	XI-3390NCM7-B1	1	pyrite	2.03	0.16	4.14	0.18	7.53	0.96	-0.10	0.14	-0.39	0.85
Mount1_2@04	XI-3390NCM7-B1	1	pyrite	2.12	0.17	4.13	0.19	7.34	0.97	0.00	0.16	-0.56	0.86
Mount1_2@05	XI-3390NCM7-B1	1	pyrite	1.85	0.17	3.74	0.19	7.00	0.96	-0.08	0.15	-0.15	0.85
Mount1_2@06	XI-3390NCM7-B1	1	pyrite	1.95	0.15	3.87	0.18	6.84	0.96	-0.04	0.14	-0.57	0.85
Mount1_2@07	XI-3390NCM7-B1	1	pyrite	1.96	0.16	3.79	0.19	6.73	0.96	0.01	0.14	-0.53	0.85
Mount1_2@08	XI-3390NCM7-B1	1	pyrite	2.14	0.15	4.19	0.18	8.29	0.96	-0.02	0.14	0.27	0.85
Mount1_2@09	XI-3390NCM7-B1	1	pyrite	2.13	0.17	4.29	0.19	7.95	0.96	-0.08	0.16	-0.26	0.85
Mount1_2@10	XI-3390NCM7-B1	1	pyrite	2.21	0.16	4.28	0.18	7.86	0.96	0.01	0.15	-0.33	0.85
Mount1_2@11	XI-3390NCM7-B1	1	pyrite	1.35	0.15	2.58	0.18	4.46	0.99	0.03	0.14	-0.48	0.88
Mount1_2@12	XI-3390NCM7-B1	1	pyrite	1.37	0.16	2.63	0.18	4.59	0.95	0.01	0.14	-0.44	0.84
Mount1_2@13	XI-3390NCM7-B1	1	pyrite	2.05	0.15	4.01	0.18	8.17	1.03	-0.01	0.14	0.49	0.93
Mount1_2@14	XI-3390NCM7-B1	1	pyrite	1.30	0.15	2.61	0.19	4.83	0.95	-0.05	0.14	-0.17	0.84
Mount1_2@15	XI-3390NCM7-B1	1	pyrite	1.63	0.17	3.15	0.18	5.39	0.95	0.01	0.16	-0.64	0.84
Mount1_3@01	XI-3390NCM7-B1	1	pyrite	1.87	0.16	3.80	0.18	7.01	0.95	-0.09	0.14	-0.25	0.84
Mount1_3@02	XI-3390NCM7-B1	1	pyrite	1.96	0.16	4.05	0.18	7.83	0.95	-0.12	0.14	0.07	0.84
Mount1_3@04	XI-3390NCM7-B1	1	pyrite	1.54	0.15	3.04	0.19	5.34	0.97	-0.03	0.14	-0.47	0.87
Mount1_3@05	XI-3390NCM7-B1	1	pyrite	2.21	0.15	4.31	0.18	7.78	0.95	-0.01	0.14	-0.47	0.84
Mount1_3@06	XI-3390NCM7-B1	1	pyrite	1.84	0.17	3.74	0.18	6.78	0.95	-0.09	0.15	-0.37	0.84
Mount1_3@07	XI-3390NCM7-B1	1	pyrite	1.73	0.15	3.28	0.18	5.70	0.95	0.04	0.14	-0.57	0.84
Mount1_3@08	XI-3390NCM7-B1	1	pyrite	1.74	0.15	3.40	0.18	5.86	0.95	-0.01	0.14	-0.64	0.84
Mount1_3@09	XI-3390NCM7-B1	1	pyrite	1.64	0.15	3.30	0.18	6.54	0.96	-0.06	0.13	0.22	0.85
Mount1_3@10	XI-3390NCM7-B1	1	pyrite	1.55	0.16	3.12	0.18	6.34	0.98	-0.05	0.14	0.38	0.88
Mount1_3@11	XI-3390NCM7-B1	1	pyrite	1.41	0.17	2.84	0.18	5.40	0.95	-0.06	0.16	-0.04	0.83
Mount1_3@12	XI-3390NCM7-B1	1	pyrite	1.18	0.16	2.53	0.18	5.06	1.05	-0.12	0.14	0.23	0.95
Mount1_3@13	XI-3390NCM7-B1	1	pyrite	1.35	0.16	2.82	0.18	5.20	0.98	-0.09	0.14	-0.19	0.87
Mount1_3@14	XI-3390NCM7-B1	1	pyrite	1.28	0.17	2.83	0.18	5.21	0.95	-0.18	0.16	-0.19	0.83
Mount1_3@15	XI-3390NCM7-B1	1	pyrite	1.48	0.15	3.02	0.18	5.61	0.95	-0.07	0.14	-0.16	0.83
Mount1_3_po@16	XI-3390NCM7-B1	1	pyrrhotite	1.75	0.20	3.28	0.25	6.61	0.98	0.06	0.19	0.33	0.99
Mount1_3_po@17	XI-3390NCM7-B1	1	pyrrhotite	1.54	0.19	3.08	0.24	6.13	0.99	-0.05	0.18	0.25	1.00
Mount1_3_po@18	XI-3390NCM7-B1	1	pyrrhotite	1.55	0.20	2.96	0.24	5.42	0.97	0.02	0.20	-0.25	0.99
Mount1_3_po@19	XI-3390NCM7-B1	1	pyrrhotite	1.44	0.19	3.02	0.24	6.47	0.98	-0.12	0.19	0.69	1.00
Mount1_3_po@20	XI-3390NCM7-B1	1	pyrrhotite	1.56	0.22	3.01	0.25	5.84	1.08	0.01	0.22	0.09	1.09

Mount1_4@01	XI-3390NCM7-B1	1	pyrite	1.85	0.16	3.69	0.18	6.86	0.95	−0.05	0.14	−0.20	0.84
Mount1_4@02	XI-3390NCM7-B1	1	pyrite	2.21	0.17	4.39	0.18	8.57	1.00	−0.05	0.16	0.17	0.90
Mount1_4@03	XI-3390NCM7-B1	1	pyrite	1.93	0.15	3.83	0.18	7.36	0.96	−0.04	0.14	0.04	0.85
Mount1_4@04	XI-3390NCM7-B1	1	pyrite	2.04	0.16	3.90	0.18	7.37	0.95	0.03	0.14	−0.09	0.84
Mount1_4@05	XI-3390NCM7-B1	1	pyrite	1.89	0.15	3.84	0.18	6.75	0.95	−0.09	0.14	−0.61	0.83
Mount1_4@06	XI-3390NCM7-B1	1	pyrite	1.91	0.17	3.71	0.18	7.51	0.95	0.01	0.16	0.42	0.84
Mount1_4@07	XI-3390NCM7-B1	1	pyrite	1.91	0.15	3.62	0.18	7.05	0.95	0.05	0.14	0.12	0.84
Mount1_4@08	XI-3390NCM7-B1	1	pyrite	1.52	0.15	3.00	0.18	5.31	0.95	−0.03	0.13	−0.44	0.83
Mount1_4@09	XI-3390NCM7-B1	1	pyrite	1.58	0.16	3.37	0.18	5.78	0.95	−0.15	0.15	−0.66	0.84
Mount1_4@10	XI-3390NCM7-B1	1	pyrite	1.34	0.15	2.67	0.19	5.14	0.95	−0.03	0.14	0.03	0.84
Mount1_4_po@11	XI-3390NCM7-B1	1	pyrrhotite	1.55	0.19	2.72	0.25	5.26	0.98	0.15	0.19	0.05	1.01
Mount1_4_po@12	XI-3390NCM7-B1	1	pyrrhotite	1.42	0.20	2.98	0.24	5.71	0.98	−0.11	0.19	0.01	1.00
Mount1_4_po@13	XI-3390NCM7-B1	1	pyrrhotite	1.52	0.20	3.01	0.24	5.41	1.03	−0.03	0.19	−0.34	1.04
Mount1_4_po@14	XI-3390NCM7-B1	1	pyrrhotite	1.11	0.19	2.35	0.24	4.51	1.07	−0.10	0.19	0.02	1.08
Mount1_4_po@15	XI-3390NCM7-B1	1	pyrrhotite	1.29	0.19	2.52	0.24	4.99	1.00	−0.01	0.19	0.16	1.02
Mount1_5@01	XI-3390NCM7-B3	2	pyrite	2.73	0.17	5.26	0.18	9.81	0.95	0.03	0.15	−0.25	0.84
Mount1_5@02	XI-3390NCM7-B3	2	pyrite	2.81	0.15	5.73	0.19	11.11	0.95	−0.13	0.14	0.13	0.84
Mount1_5@03	XI-3390NCM7-B3	2	pyrite	2.36	0.15	4.66	0.18	9.34	0.95	−0.04	0.14	0.42	0.84
Mount1_5@04	XI-3390NCM7-B3	2	pyrite	2.07	0.15	4.23	0.19	7.11	0.95	−0.11	0.14	−0.99	0.84
Mount1_5@05	XI-3390NCM7-B3	2	pyrite	2.70	0.16	5.22	0.18	9.35	0.95	0.01	0.14	−0.65	0.84
Mount1_5@06	XI-3390NCM7-B3	2	pyrite	2.56	0.16	5.02	0.18	9.49	0.96	−0.02	0.14	−0.11	0.85
Mount1_5@07	XI-3390NCM7-B3	2	pyrite	2.40	0.17	4.83	0.18	9.26	0.95	−0.09	0.15	0.01	0.84
Mount1_5@08	XI-3390NCM7-B3	2	pyrite	2.33	0.16	4.60	0.18	9.12	0.96	−0.04	0.15	0.31	0.85
Mount1_5@09	XI-3390NCM7-B3	2	pyrite	2.26	0.15	4.43	0.19	8.54	0.95	−0.02	0.14	0.06	0.84
Mount1_5@10	XI-3390NCM7-B3	2	pyrite	2.41	0.15	4.77	0.19	8.51	0.95	−0.04	0.14	−0.61	0.84
Mount1_5_po@11	XI-3390NCM7-B3	2	pyrrhotite	1.70	0.21	3.50	0.24	6.40	0.98	−0.11	0.20	−0.30	0.99
Mount1_5_po@12	XI-3390NCM7-B3	2	pyrrhotite	1.58	0.19	2.99	0.27	5.94	0.98	0.04	0.20	0.21	1.02
Mount1_5_po@13	XI-3390NCM7-B3	2	pyrrhotite	1.89	0.19	3.75	0.24	6.72	1.00	−0.04	0.19	−0.45	1.01
Mount1_5_po@14	XI-3390NCM7-B3	2	pyrrhotite	2.09	0.20	3.97	0.25	7.76	0.99	0.05	0.20	0.17	1.01
Mount1_5_po@15	XI-3390NCM7-B3	2	pyrrhotite	2.21	0.19	4.18	0.25	8.19	0.98	0.06	0.18	0.18	1.00
Mount1_5_po@16	XI-3390NCM7-B3	2	pyrrhotite	1.88	0.19	3.68	0.25	6.77	0.99	−0.02	0.19	−0.26	1.01
Mount1_5_po@17	XI-3390NCM7-B3	2	pyrrhotite	2.01	0.19	3.95	0.24	7.33	1.06	−0.02	0.18	−0.22	1.07
Mount1_5_po@18	XI-3390NCM7-B3	2	pyrrhotite	2.23	0.20	4.20	0.24	8.06	0.98	0.06	0.19	0.02	0.99
Mount1_5_po@19	XI-3390NCM7-B3	2	pyrrhotite	2.27	0.20	4.24	0.24	7.77	0.98	0.09	0.20	−0.34	1.00
Mount1_5_po@20	XI-3390NCM7-B3	2	pyrrhotite	1.87	0.20	3.56	0.25	6.57	0.98	0.04	0.19	−0.25	0.99
Mount1_5_po@21	XI-3390NCM7-B3	2	pyrrhotite	2.18	0.21	4.33	0.25	8.31	1.08	−0.04	0.21	0.03	1.10
Mount1_5_po@22	XI-3390NCM7-B3	2	pyrrhotite	2.01	0.21	3.88	0.26	7.17	0.99	0.01	0.21	−0.24	1.02
Mount1_5_po@23	XI-3390NCM7-B3	2	pyrrhotite	2.20	0.19	4.08	0.24	7.31	0.99	0.10	0.18	−0.50	1.00
Mount1_5_po@24	XI-3390NCM7-B3	2	pyrrhotite	1.90	0.19	3.95	0.24	6.81	1.02	−0.13	0.19	−0.75	1.03
Mount1_5_po@25	XI-3390NCM7-B3	2	pyrrhotite	2.00	0.21	3.64	0.26	6.96	0.99	0.13	0.21	−0.01	1.02
Mount1_5_po@26	XI-3390NCM7-B3	2	pyrrhotite	2.16	0.19	3.99	0.25	6.64	0.99	0.11	0.19	−0.99	1.01
Mount1_5_po@27	XI-3390NCM7-B3	2	pyrrhotite	2.15	0.19	3.97	0.24	7.14	1.09	0.11	0.19	−0.45	1.10
Mount1_5_po@28	XI-3390NCM7-B3	2	pyrrhotite	2.09	0.20	4.24	0.24	7.83	0.99	−0.09	0.19	−0.28	1.00
Mount1_5_po@29	XI-3390NCM7-B3	2	pyrrhotite	2.06	0.22	3.79	0.24	6.57	0.99	0.11	0.21	−0.69	1.00
Mount1_5_po@30	XI-3390NCM7-B3	2	pyrrhotite	1.91	0.20	3.95	0.25	7.40	0.99	−0.12	0.19	−0.16	1.01
Mount1_6@01	XI-3390NCM7-B3	2	pyrite	2.43	0.16	4.85	0.18	9.11	0.96	−0.06	0.15	−0.18	0.85
Mount1_6@02	XI-3390NCM7-B3	2	pyrite	2.88	0.15	5.48	0.18	10.45	0.96	0.06	0.14	−0.05	0.85
Mount1_6@03	XI-3390NCM7-B3	2	pyrite	2.51	0.17	4.80	0.21	8.56	0.96	0.04	0.17	−0.63	0.87
Mount1_6@04	XI-3390NCM7-B3	2	pyrite	2.82	0.16	5.43	0.19	10.14	0.96	0.03	0.14	−0.25	0.85
Mount1_6@05	XI-3390NCM7-B3	2	pyrite	2.28	0.15	4.68	0.18	8.62	0.99	−0.13	0.14	−0.35	0.88
Mount1_6@06	XI-3390NCM7-B3	2	pyrite	2.70	0.15	5.30	0.19	9.83	0.96	−0.03	0.14	−0.32	0.85
Mount1_6@07	XI-3390NCM7-B3	2	pyrite	2.40	0.15	4.79	0.18	8.48	0.97	−0.06	0.14	−0.70	0.86
Mount1_6@08	XI-3390NCM7-B3	2	pyrite	2.67	0.15	5.23	0.19	9.60	0.96	−0.02	0.14	−0.41	0.86
Mount1_6@09	XI-3390NCM7-B3	2	pyrite	2.23	0.16	4.51	0.19	8.80	0.96	−0.09	0.14	0.17	0.86
Mount1_6@10	XI-3390NCM7-B3	2	pyrite	2.29	0.17	4.49	0.20	8.24	0.96	−0.02	0.16	−0.36	0.87
Mount1_6@11	XI-3390NCM7-B3	2	pyrite	2.83	0.16	5.56	0.18	10.49	1.04	−0.03	0.15	−0.16	0.94
Mount1_6@12	XI-3390NCM7-B3	2	pyrite	2.33	0.16	4.57	0.19	8.66	0.96	−0.02	0.14	−0.09	0.86
Mount1_6@13	XI-3390NCM7-B3	2	pyrite	2.42	0.15	4.53	0.19	8.45	0.97	0.09	0.14	−0.23	0.86
Mount1_6@14	XI-3390NCM7-B3	2	pyrite	2.73	0.16	5.39	0.19	9.77	0.97	−0.04	0.15	−0.54	0.87
Mount1_6@15	XI-3390NCM7-B3	2	pyrite	2.20	0.17	4.12	0.20	7.22	1.04	0.09	0.16	−0.66	0.95
Mount1_6@16	XI-3390NCM7-B3	2	pyrite	2.49	0.15	4.69	0.20	8.91	0.97	0.08	0.14	−0.07	0.87
Mount1_6@17	XI-3390NCM7-B3	2	pyrite	2.29	0.17	4.51	0.19	8.58	0.97	−0.03	0.16	−0.05	0.86
Mount1_6@18	XI-3390NCM7-B3	2	pyrite	2.86	0.16	5.70	0.19	9.70	0.97	−0.07	0.15	−1.21	0.86
Mount1_6@19	XI-3390NCM7-B3	2	pyrite	2.70	0.15	5.18	0.19	10.14	0.97	0.03	0.14	0.21	0.87

Mount1_6@20	XI-3390NCM7-B3	2	pyrite	2.57	0.15	4.98	0.19	9.41	0.97	0.00	0.14	-0.13	0.86
Mount2_1@01	XI-3390NCM11-B2	1	pyrite	0.25	0.14	0.47	0.19	-0.12	1.00	0.00	0.14	-1.03	0.95
Mount2_1@02	XI-3390NCM11-B2	1	pyrite	-0.06	0.14	0.11	0.19	-0.74	0.98	-0.12	0.13	-0.95	0.93
Mount2_1@03	XI-3390NCM11-B2	1	pyrite	0.41	0.15	0.86	0.19	0.34	1.01	-0.03	0.14	-1.30	0.96
Mount2_1@04	XI-3390NCM11-B2	1	pyrite	0.00	0.14	0.13	0.19	0.28	0.98	-0.06	0.13	0.04	0.92
Mount2_1@05	XI-3390NCM11-B2	1	pyrite	0.09	0.14	0.22	0.19	-0.55	0.98	-0.02	0.14	-0.97	0.92
Mount2_1_po@07	XI-3390NCM11-B2	1	pyrrhotite	0.30	0.22	0.58	0.23	0.93	1.04	0.00	0.18	-0.18	0.99
Mount2_1_po@08	XI-3390NCM11-B2	1	pyrrhotite	0.25	0.23	0.65	0.23	1.09	1.00	-0.08	0.20	-0.15	0.95
Mount2_1_po@09	XI-3390NCM11-B2	1	pyrrhotite	0.36	0.23	0.52	0.23	0.60	1.00	0.09	0.20	-0.40	0.95
Mount2_1_po@10	XI-3390NCM11-B2	1	pyrrhotite	0.39	0.22	0.65	0.24	1.20	1.00	0.05	0.18	-0.04	0.95
Mount2_2@01	XI-3390NCM11-B2	1	pyrite	0.10	0.14	0.36	0.18	-0.11	0.98	-0.08	0.13	-0.80	0.92
Mount2_2@02	XI-3390NCM11-B2	1	pyrite	0.00	0.15	-0.06	0.18	-0.77	0.96	0.03	0.14	-0.66	0.89
Mount2_2@03	XI-3390NCM11-B2	1	pyrite	0.22	0.14	0.33	0.18	-0.39	0.95	0.05	0.13	-1.02	0.89
Mount2_2@04	XI-3390NCM11-B2	1	pyrite	0.09	0.15	0.14	0.18	-1.01	0.95	0.02	0.15	-1.27	0.89
Mount2_2@05	XI-3390NCM11-B2	1	pyrite	0.44	0.13	0.88	0.19	0.62	0.96	-0.01	0.13	-1.06	0.90
Mount2_2_po@06	XI-3390NCM11-B2	1	pyrrhotite	0.28	0.22	0.56	0.23	0.92	0.98	-0.01	0.19	-0.15	0.93
Mount2_2_po@07	XI-3390NCM11-B2	1	pyrrhotite	0.50	0.23	0.91	0.23	1.77	0.98	0.04	0.19	0.03	0.92
Mount2_2_po@08	XI-3390NCM11-B2	1	pyrrhotite	0.55	0.22	0.82	0.23	2.34	0.98	0.13	0.19	0.77	0.93
Mount2_2_po@09	XI-3390NCM11-B2	1	pyrrhotite	0.51	0.22	0.98	0.23	0.88	0.98	0.00	0.19	-0.99	0.92
Mount2_2_po@10	XI-3390NCM11-B2	1	pyrrhotite	0.54	0.24	0.84	0.23	1.23	1.00	0.11	0.21	-0.36	0.95
Mount2_3@02	XI-3390NCM27-B1	1	pyrite	-1.67	0.14	-3.32	0.18	-6.97	0.94	0.04	0.13	-0.65	0.88
Mount2_3@03	XI-3390NCM27-B1	1	pyrite	-1.79	0.14	-3.44	0.18	-7.52	0.94	-0.02	0.13	-0.96	0.88
Mount2_3@04	XI-3390NCM27-B1	1	pyrite	-1.59	0.13	-2.98	0.18	-6.51	0.94	-0.05	0.12	-0.82	0.88
Mount2_3@05	XI-3390NCM27-B1	1	pyrite	-1.62	0.14	-3.13	0.18	-6.12	0.94	-0.01	0.14	-0.15	0.88
Mount2_4@01	XI-3390NCM27-B1	1	pyrite	-1.70	0.14	-3.14	0.18	-6.47	0.97	-0.08	0.14	-0.47	0.91
Mount2_4@02	XI-3390NCM27-B1	1	pyrite	-1.70	0.15	-3.22	0.18	-6.96	0.95	-0.04	0.14	-0.82	0.88
Mount2_4@03	XI-3390NCM27-B1	1	pyrite	-1.99	0.15	-3.92	0.18	-8.16	0.95	0.03	0.14	-0.68	0.88
Mount2_4@04	XI-3390NCM27-B1	1	pyrite	-1.64	0.14	-3.26	0.18	-5.50	0.95	0.04	0.13	0.72	0.89
Mount2_4@05	XI-3390NCM27-B1	1	pyrite	-1.87	0.13	-3.60	0.18	-7.77	0.95	-0.01	0.13	-0.90	0.89
Mount2_4@06	XI-3390NCM27-B1	1	pyrite	-1.98	0.14	-3.84	0.18	-7.39	0.95	-0.01	0.14	-0.07	0.89
Mount2_4@07	XI-3390NCM27-B1	1	pyrite	-1.68	0.13	-3.19	0.18	-7.21	0.95	-0.04	0.13	-1.12	0.89
Mount2_4@08	XI-3390NCM27-B1	1	pyrite	-1.17	0.14	-2.25	0.18	-4.96	0.95	-0.01	0.13	-0.67	0.89
Mount2_4@09	XI-3390NCM27-B1	1	pyrite	-1.30	0.13	-2.44	0.18	-4.98	1.02	-0.04	0.13	-0.32	0.96
Mount2_4@10	XI-3390NCM27-B1	1	pyrite	-1.39	0.14	-2.32	0.18	-5.46	1.00	-0.19	0.13	-1.03	0.94
Mount2_5@01	XI-3390NCM29-B3	1	pyrite	-0.29	0.15	-0.34	0.19	-0.29	0.96	-0.12	0.15	0.35	0.90
Mount2_5@02	XI-3390NCM29-B3	1	pyrite	-0.31	0.14	-0.50	0.18	-1.46	0.96	-0.05	0.13	-0.51	0.90
Mount2_5@03	XI-3390NCM29-B3	1	pyrite	-0.11	0.15	-0.23	0.18	-0.66	0.96	0.01	0.14	-0.23	0.90
Mount2_5@04	XI-3390NCM29-B3	1	pyrite	-0.16	0.14	-0.24	0.18	-0.15	1.00	-0.04	0.14	0.30	0.94
Mount2_5@05	XI-3390NCM29-B3	1	pyrite	-0.20	0.14	-0.23	0.19	-0.71	0.96	-0.08	0.14	-0.27	0.91
Mount2_5@06	XI-3390NCM29-B3	1	pyrite	-0.16	0.15	-0.12	0.19	-0.51	0.97	-0.10	0.14	-0.28	0.91
Mount2_5@07	XI-3390NCM29-B3	1	pyrite	-0.11	0.14	-0.01	0.18	-0.87	0.99	-0.11	0.13	-0.85	0.93
Mount2_5@08	XI-3390NCM29-B3	1	pyrite	-0.07	0.14	-0.24	0.18	-1.94	0.97	0.06	0.14	-1.47	0.91
Mount2_5@09	XI-3390NCM29-B3	1	pyrite	-0.16	0.14	-0.25	0.18	-1.50	1.02	-0.03	0.13	-1.03	0.97
Mount2_5@10	XI-3390NCM29-B3	1	pyrite	-0.06	0.14	0.00	0.19	-0.35	0.97	-0.06	0.13	-0.34	0.92
Mount2_6@01	XI-3390NCM29-B4	1	pyrite	0.28	0.14	0.73	0.19	1.24	0.98	-0.10	0.13	-0.17	0.92
Mount2_6@02	XI-3390NCM29-B4	1	pyrite	0.15	0.14	0.66	0.19	0.88	0.99	-0.19	0.13	-0.38	0.94
Mount2_6@03	XI-3390NCM29-B4	1	pyrite	0.28	0.15	0.57	0.19	1.17	0.98	-0.02	0.14	0.08	0.93
Mount2_6@04	XI-3390NCM29-B4	1	pyrite	-0.09	0.16	-0.07	0.19	-0.63	0.98	-0.05	0.16	-0.50	0.93
Mount2_6@05	XI-3390NCM29-B4	1	pyrite	-0.22	0.15	-0.20	0.19	-0.94	0.99	-0.12	0.14	-0.56	0.93
Mount2_6@06	XI-3390NCM29-B4	1	pyrite	0.29	0.14	0.64	0.19	1.16	1.00	-0.04	0.13	-0.06	0.95
Mount2_6@07	XI-3390NCM29-B4	1	pyrite	0.34	0.14	0.64	0.19	0.68	1.03	0.01	0.13	-0.54	0.98
Mount2_6@08	XI-3390NCM29-B4	1	pyrite	0.14	0.14	0.43	0.19	1.00	1.00	-0.08	0.13	0.18	0.94
Mount2_6@09	XI-3390NCM29-B4	1	pyrite	0.22	0.14	0.45	0.19	0.60	1.00	-0.01	0.14	-0.25	0.95
Mount2_6@10	XI-3390NCM29-B4	1	pyrite	0.02	0.16	0.20	0.19	0.42	1.00	-0.09	0.15	0.03	0.95
Mount3_1@01	XI-3390NCM29-B4	1	pyrite	0.73	0.17	1.43	0.24	2.28	0.99	-0.01	0.16	-0.46	0.89
Mount3_1@02	XI-3390NCM29-B4	1	pyrite	0.74	0.16	1.54	0.24	3.30	0.99	-0.05	0.16	0.36	0.89
Mount3_1@03	XI-3390NCM29-B4	1	pyrite	0.44	0.16	1.05	0.23	1.50	0.99	-0.10	0.16	-0.51	0.89
Mount3_1@04	XI-3390NCM29-B4	1	pyrite	-0.45	0.16	-0.78	0.23	-1.43	0.98	-0.05	0.15	0.06	0.88
Mount3_1@05	XI-3390NCM29-B4	1	pyrite	0.70	0.16	1.46	0.23	2.38	0.99	-0.06	0.16	-0.42	0.90
Mount3_1@06	XI-3390NCM29-B4	1	pyrite	0.91	0.16	1.84	0.23	3.07	0.98	-0.04	0.16	-0.45	0.88
Mount3_1@07	XI-3390NCM29-B4	1	pyrite	0.38	0.16	0.79	0.23	0.76	0.98	-0.03	0.15	-0.74	0.88
Mount3_1@08	XI-3390NCM29-B4	1	pyrite	0.31	0.16	0.59	0.23	0.44	0.98	0.01	0.16	-0.68	0.88
Mount3_1@09	XI-3390NCM29-B4	1	pyrite	0.46	0.17	0.84	0.23	1.55	1.05	0.03	0.17	-0.05	0.96
Mount3_1@10	XI-3390NCM29-B4	1	pyrite	0.40	0.16	1.00	0.23	2.00	0.98	-0.12	0.15	0.08	0.88

Mount3_1@11	XI-3390NCM29-B4	1	pyrite	0.56	0.16	0.90	0.23	1.08	0.97	0.10	0.16	−0.64	0.87
Mount3_1@12	XI-3390NCM29-B4	1	pyrite	0.93	0.17	1.75	0.23	3.80	0.98	0.02	0.16	0.46	0.88
Mount3_1@13	XI-3390NCM29-B4	1	pyrite	0.71	0.16	1.38	0.23	1.87	1.09	0.00	0.16	−0.78	1.00
Mount3_1@14	XI-3390NCM29-B4	1	pyrite	0.97	0.17	1.95	0.23	3.20	0.97	−0.03	0.16	−0.52	0.87
Mount3_1@15	XI-3390NCM29-B4	1	pyrite	1.19	0.16	2.26	0.23	4.19	0.97	0.02	0.16	−0.14	0.87
Mount3_1@16	XI-3390NCM29-B4	1	pyrite	0.65	0.16	1.20	0.23	1.97	1.00	0.03	0.15	−0.32	0.90
Mount3_1@17	XI-3390NCM29-B4	1	pyrite	0.70	0.16	1.47	0.23	1.74	0.97	−0.06	0.16	−1.06	0.87
Mount3_1@18	XI-3390NCM29-B4	1	pyrite	1.05	0.17	2.07	0.23	3.60	0.97	−0.02	0.17	−0.35	0.87
Mount3_1@19	XI-3390NCM29-B4	1	pyrite	0.66	0.16	1.25	0.23	1.73	0.97	0.02	0.16	−0.65	0.87
Mount3_1@20	XI-3390NCM29-B4	1	pyrite	0.29	0.16	0.54	0.23	0.18	0.97	0.01	0.16	−0.86	0.86
Mount3_3@01	XI-3390NCM29-B5	3	pyrite	2.37	0.15	4.58	0.23	7.83	1.00	0.02	0.15	−0.93	0.90
Mount3_3@02	XI-3390NCM29-B5	3	pyrite	2.44	0.16	4.46	0.23	8.87	0.97	0.15	0.16	0.33	0.87
Mount3_3@03	XI-3390NCM29-B5	3	pyrite	2.29	0.16	4.58	0.23	8.26	0.97	−0.07	0.15	−0.52	0.87
Mount3_3@04	XI-3390NCM29-B5	3	pyrite	2.18	0.16	4.27	0.23	7.51	0.98	−0.02	0.15	−0.66	0.87
Mount3_3@05	XI-3390NCM29-B5	3	pyrite	2.11	0.17	4.20	0.23	7.76	0.97	−0.05	0.16	−0.27	0.87
Mount3_3@06	XI-3390NCM29-B5	3	pyrite	2.08	0.15	3.90	0.24	6.26	1.04	0.07	0.15	−1.21	0.95
Mount3_3@07	XI-3390NCM29-B5	3	pyrite	2.27	0.15	4.34	0.23	7.49	0.97	0.04	0.15	−0.81	0.86
Mount3_3@09	XI-3390NCM29-B5	3	pyrite	2.99	0.16	5.83	0.23	10.49	0.97	−0.01	0.16	−0.67	0.87
Mount3_3@10	XI-3390NCM29-B5	3	pyrite	3.05	0.15	5.85	0.23	10.87	0.97	0.04	0.15	−0.32	0.87
Mount3_3@11	XI-3390NCM29-B5	3	pyrite	2.93	0.16	5.82	0.23	10.69	0.97	−0.06	0.16	−0.45	0.87
Mount3_3@12	XI-3390NCM29-B5	3	pyrite	3.13	0.15	6.03	0.23	11.07	0.97	0.03	0.15	−0.47	0.87
Mount3_3@13	XI-3390NCM29-B5	3	pyrite	3.11	0.16	5.90	0.23	11.45	1.04	0.08	0.16	0.15	0.94
Mount3_3@14	XI-3390NCM29-B5	3	pyrite	2.14	0.15	4.06	0.23	7.25	0.96	0.05	0.15	−0.52	0.86
Mount3_3@15	XI-3390NCM29-B5	3	pyrite	2.13	0.18	4.24	0.23	6.84	0.96	−0.05	0.18	−1.26	0.86
Mount3_3@16	XI-3390NCM29-B5	3	pyrite	2.13	0.16	4.22	0.23	7.72	0.96	−0.04	0.15	−0.34	0.86
Mount3_3@17	XI-3390NCM29-B5	3	pyrite	2.18	0.16	4.31	0.23	7.87	0.96	−0.03	0.16	−0.38	0.86
Mount3_3@18	XI-3390NCM29-B5	3	pyrite	1.87	0.16	3.84	0.23	6.07	1.03	−0.10	0.15	−1.27	0.93
Mount3_3@19	XI-3390NCM29-B5	3	pyrite	2.18	0.15	4.43	0.23	8.09	0.96	−0.10	0.15	−0.40	0.86
Mount3_3@20	XI-3390NCM29-B5	3	pyrite	2.22	0.15	4.33	0.23	7.16	0.96	−0.01	0.15	−1.12	0.86
Mount3_4@01	XI-3390NCM29-B5	3	pyrite	2.23	0.15	4.36	0.23	8.75	1.05	−0.01	0.15	0.40	0.96
Mount3_4@02	XI-3390NCM29-B5	3	pyrite	2.20	0.15	4.46	0.23	8.50	0.99	−0.09	0.15	−0.04	0.89
Mount3_4@03	XI-3390NCM29-B5	3	pyrite	2.18	0.16	4.33	0.23	8.23	0.97	−0.05	0.15	−0.06	0.86
Mount3_4@04	XI-3390NCM29-B5	3	pyrite	2.05	0.16	4.27	0.23	7.32	0.97	−0.15	0.15	−0.85	0.86
Mount3_4@05	XI-3390NCM29-B5	3	pyrite	1.80	0.15	3.50	0.23	6.65	0.97	0.00	0.15	−0.04	0.86
Mount3_4@06	XI-3390NCM29-B5	3	pyrite	1.60	0.15	3.26	0.23	6.14	1.00	−0.08	0.15	−0.11	0.89
Mount3_4@07	XI-3390NCM29-B5	3	pyrite	2.85	0.15	5.66	0.23	10.67	0.97	−0.06	0.15	−0.16	0.87
Mount3_4@08	XI-3390NCM29-B5	3	pyrite	2.17	0.16	4.21	0.23	7.96	0.99	0.01	0.16	−0.09	0.89
Mount3_4@09	XI-3390NCM29-B5	3	pyrite	2.17	0.16	4.35	0.23	7.09	0.97	−0.07	0.15	−1.24	0.86
Mount3_4@10	XI-3390NCM29-B5	3	pyrite	2.12	0.16	4.26	0.23	6.79	1.00	−0.07	0.15	−1.37	0.90
Mount3_4@11	XI-3390NCM29-B5	3	pyrite	2.04	0.15	4.19	0.23	7.64	0.99	−0.11	0.15	−0.37	0.89
Mount3_4@12	XI-3390NCM29-B5	3	pyrite	1.91	0.16	3.78	0.23	6.81	0.97	−0.03	0.16	−0.41	0.87
Mount3_4@13	XI-3390NCM29-B5	3	pyrite	2.13	0.16	4.04	0.23	6.54	1.02	0.05	0.16	−1.19	0.92
Mount3_4@14	XI-3390NCM29-B5	3	pyrite	1.43	0.15	2.88	0.24	4.83	1.04	−0.05	0.15	−0.68	0.95
Mount3_4@15	XI-3390NCM29-B5	3	pyrite	1.19	0.16	2.32	0.23	3.53	0.97	−0.01	0.15	−0.90	0.87
Mount3_4@16	XI-3390NCM29-B5	3	pyrite	1.56	0.15	3.09	0.23	5.25	0.97	−0.03	0.15	−0.67	0.87
Mount3_4@17	XI-3390NCM29-B5	3	pyrite	2.26	0.15	4.56	0.23	8.68	0.97	−0.09	0.15	−0.05	0.87
Mount3_4@18	XI-3390NCM29-B5	3	pyrite	2.15	0.15	4.35	0.23	8.66	0.99	−0.09	0.15	0.34	0.89
Mount3_4@19	XI-3390NCM29-B5	3	pyrite	2.38	0.15	4.66	0.23	8.39	0.97	−0.02	0.15	−0.52	0.87
Mount3_4@20	XI-3390NCM29-B5	3	pyrite	1.83	0.17	3.58	0.24	6.28	0.97	−0.01	0.16	−0.56	0.88
Mount3_6@01	XI-3390NCM29-B6	2	pyrite	5.05	0.16	9.81	0.23	18.04	0.98	0.01	0.16	−0.78	0.88
Mount3_6@02	XI-3390NCM29-B6	2	pyrite	4.89	0.16	9.53	0.23	18.07	0.99	0.00	0.15	−0.20	0.90
Mount3_6@03	XI-3390NCM29-B6	2	pyrite	4.86	0.16	9.45	0.23	17.39	0.99	0.00	0.16	−0.74	0.89
Mount3_6@04	XI-3390NCM29-B6	2	pyrite	4.92	0.16	9.69	0.23	17.28	0.99	−0.06	0.15	−1.31	0.89
Mount3_6@05	XI-3390NCM29-B6	2	pyrite	5.01	0.16	9.91	0.23	17.57	0.98	−0.08	0.16	−1.45	0.88
Mount3_6@06	XI-3390NCM29-B6	2	pyrite	4.84	0.16	9.63	0.23	17.23	0.99	−0.11	0.16	−1.25	0.89
Mount3_6@07	XI-3390NCM29-B6	2	pyrite	4.87	0.17	9.57	0.23	17.54	1.01	−0.05	0.17	−0.82	0.91
Mount3_6@08	XI-3390NCM29-B6	2	pyrite	4.73	0.16	9.47	0.23	17.58	0.99	−0.14	0.15	−0.59	0.89
Mount3_6@09	XI-3390NCM29-B6	2	pyrite	4.93	0.16	9.61	0.23	17.04	0.99	0.00	0.15	−1.40	0.89
Mount3_6@10	XI-3390NCM29-B6	2	pyrite	4.84	0.16	9.42	0.23	17.19	1.07	−0.01	0.15	−0.89	0.98
Mount3_6_po@01	XI-3390NCM29-B6	2	pyrrhotite	5.50	0.22	10.78	0.23	19.93	1.06	−0.04	0.19	−0.76	1.00
Mount3_6_po@02	XI-3390NCM29-B6	2	pyrrhotite	5.40	0.22	10.47	0.24	19.52	1.08	0.02	0.19	−0.58	1.03
Mount3_6_po@03	XI-3390NCM29-B6	2	pyrrhotite	5.56	0.22	10.83	0.23	20.93	1.07	0.00	0.19	0.14	1.02
Mount3_6_po@04	XI-3390NCM29-B6	2	pyrrhotite	5.68	0.23	10.93	0.23	20.77	1.03	0.07	0.20	−0.21	0.97
Mount3_6_po@05	XI-3390NCM29-B6	2	pyrrhotite	5.68	0.21	11.04	0.23	21.12	1.03	0.01	0.18	−0.08	0.97

Mount3_6_po@06	XI-3390NCM29-B6	2	pyrrhotite	5.61	0.21	10.75	0.23	19.27	1.03	0.09	0.18	-1.36	0.97
Mount3_6_po@07	XI-3390NCM29-B6	2	pyrrhotite	5.61	0.22	10.82	0.23	20.53	1.03	0.06	0.18	-0.24	0.97
Mount3_6_po@08	XI-3390NCM29-B6	2	pyrrhotite	5.65	0.21	10.86	0.23	20.46	1.04	0.07	0.18	-0.38	0.98
Mount3_6_po@09	XI-3390NCM29-B6	2	pyrrhotite	5.60	0.23	10.80	0.23	19.99	1.04	0.05	0.20	-0.73	0.98
Mount3_6_po@10	XI-3390NCM29-B6	2	pyrrhotite	5.30	0.22	10.42	0.24	20.01	1.04	-0.05	0.18	0.01	0.98
Mount4_3@01	XI-3390NCM29-B7	3	pyrite	2.76	0.20	5.51	0.25	10.87	0.95	-0.08	0.17	0.33	1.00
Mount4_3@02	XI-3390NCM29-B7	3	pyrite	1.56	0.19	3.19	0.25	6.25	0.81	-0.09	0.17	0.15	0.87
Mount4_3@03	XI-3390NCM29-B7	3	pyrite	1.94	0.21	3.88	0.25	7.37	0.82	-0.05	0.19	-0.05	0.88
Mount4_3@04	XI-3390NCM29-B7	3	pyrite	2.20	0.20	4.39	0.25	7.72	0.82	-0.06	0.17	-0.69	0.88
Mount4_3@05	XI-3390NCM29-B7	3	pyrite	2.20	0.21	4.35	0.25	7.81	0.82	-0.03	0.19	-0.51	0.88
Mount4_3@06	XI-3390NCM29-B7	3	pyrite	1.86	0.19	3.71	0.24	6.64	0.87	-0.05	0.17	-0.46	0.92
Mount4_3@07	XI-3390NCM29-B7	3	pyrite	1.93	0.19	3.90	0.25	7.28	0.83	-0.07	0.16	-0.18	0.89
Mount4_3@08	XI-3390NCM29-B7	3	pyrite	2.00	0.20	3.76	0.26	6.79	0.83	0.06	0.18	-0.41	0.90
Mount4_3@09	XI-3390NCM29-B7	3	pyrite	2.10	0.20	4.26	0.28	7.19	0.90	-0.10	0.18	-0.97	0.98
Mount4_3@10	XI-3390NCM29-B7	3	pyrite	2.18	0.20	4.32	0.25	7.35	0.83	-0.04	0.18	-0.93	0.90
Mount4_4@01	XI-3390NCM29-B7	3	pyrite	3.81	0.19	7.29	0.24	13.99	0.81	0.06	0.16	0.03	0.86
Mount4_4@02	XI-3390NCM29-B7	3	pyrite	2.13	0.19	4.08	0.28	7.13	0.84	0.03	0.17	-0.68	0.93
Mount4_4@03	XI-3390NCM29-B7	3	pyrite	2.05	0.20	4.14	0.25	8.21	0.80	-0.08	0.17	0.28	0.87
Mount4_4@04	XI-3390NCM29-B7	3	pyrite	2.44	0.20	4.75	0.24	9.03	0.80	0.00	0.17	-0.05	0.85
Mount4_4@05	XI-3390NCM29-B7	3	pyrite	2.16	0.19	4.54	0.26	8.27	0.81	-0.17	0.17	-0.42	0.88
Mount4_4@06	XI-3390NCM29-B7	3	pyrite	2.78	0.22	5.44	0.24	9.96	0.80	-0.02	0.19	-0.45	0.86
Mount4_4@07	XI-3390NCM29-B7	3	pyrite	2.74	0.20	5.42	0.25	10.55	0.80	-0.05	0.18	0.17	0.86
Mount4_4@08	XI-3390NCM29-B7	3	pyrite	3.01	0.21	6.11	0.25	11.41	0.81	-0.13	0.18	-0.29	0.87
Mount4_4@09	XI-3390NCM29-B7	3	pyrite	2.29	0.19	4.60	0.25	9.09	0.80	-0.08	0.16	0.28	0.86
Mount4_4@10	XI-3390NCM29-B7	3	pyrite	2.31	0.19	4.59	0.25	8.52	0.80	-0.06	0.16	-0.27	0.86
Mount4_4@11	XI-3390NCM29-B7	3	pyrite	2.35	0.20	4.67	0.25	9.07	0.81	-0.06	0.17	0.13	0.86
Mount4_5@01	XI-3390NCM29-B7	3	pyrite	2.66	0.20	5.35	0.26	10.44	0.83	-0.09	0.18	0.20	0.90
Mount4_5@02	XI-3390NCM29-B7	3	pyrite	2.75	0.20	5.55	0.25	11.06	0.83	-0.10	0.17	0.43	0.89
Mount4_5@03	XI-3390NCM29-B7	3	pyrite	2.73	0.20	5.48	0.25	10.51	0.82	-0.09	0.18	0.02	0.89
Mount4_5@04	XI-3390NCM29-B7	3	pyrite	2.87	0.19	5.58	0.25	11.44	0.82	0.00	0.17	0.76	0.89
Mount4_5@05	XI-3390NCM29-B7	3	pyrite	3.08	0.19	6.04	0.25	11.10	0.94	-0.02	0.17	-0.47	1.00
Mount4_5@06	XI-3390NCM29-B7	3	pyrite	3.13	0.20	6.06	0.26	11.30	0.81	0.02	0.17	-0.30	0.88
Mount4_5@07	XI-3390NCM29-B7	3	pyrite	1.74	0.19	3.29	0.24	6.48	0.95	0.05	0.16	0.19	1.00
Mount4_5@08	XI-3390NCM29-B7	3	pyrite	1.23	0.23	2.51	0.34	4.83	0.96	-0.06	0.24	0.03	1.10
Mount4_5@09	XI-3390NCM29-B7	3	pyrite	1.41	0.19	2.92	0.25	5.52	0.81	-0.10	0.16	-0.07	0.87
Mount4_5@10	XI-3390NCM29-B7	3	pyrite	2.72	0.19	5.36	0.26	9.93	0.83	-0.04	0.17	-0.34	0.90
Mount4_5@11	XI-3390NCM29-B7	3	pyrite	2.82	0.19	5.57	0.26	10.14	0.95	-0.04	0.17	-0.53	1.01

Table S5. Pb isotope compositions of sulfides from the Shenshuitan and Hongqigou gold deposits.

No.	sample	rock type	ore sub-type	mineral	$^{206}\text{Pb}/^{204}\text{Pb}$	$^{207}\text{Pb}/^{204}\text{Pb}$	$^{208}\text{Pb}/^{204}\text{Pb}$	ore district/ comments	references
1	XI-3390NCM11-B1Apy	phyllic brecciated granite	1	arsenopyrite	18.436	15.638	38.462	Shenshuitan	this study
2	XI-3390NCM11-B1Po	phyllic brecciated granite	1	pyrrhotite	18.402	15.605	38.374	Shenshuitan	this study
3	XI-3390NCM11-B1Py	phyllic brecciated granite	1	pyrite	18.358	15.582	38.399	Shenshuitan	this study
4	XI-3390NCM11-B2Apy	phyllic brecciated granite	1	arsenopyrite	18.254	15.600	38.201	Shenshuitan	this study
5	XI-3390NCM11-B2Po	phyllic brecciated granite	1	pyrrhotite	18.400	15.616	38.416	Shenshuitan	this study
6	XI-3390NCM11-B2Py	phyllic brecciated granite	1	pyrite	19.341	15.606	38.307	Shenshuitan	this study
7	XI-3390NCM11-B3Apy	phyllic brecciated granite	1	arsenopyrite	18.071	15.530	37.908	Shenshuitan	this study
8	XI-3390NCM11-B3Py	phyllic brecciated granite	1	pyrite	18.463	15.600	38.669	Shenshuitan	this study
9	XI-3390NCM17-B1Py	phyllic brecciated granite	1	pyrite	18.584	15.624	38.521	Shenshuitan	this study
10	XI-3390NCM17-B2Apy	phyllic brecciated granite	1	arsenopyrite	18.561	15.658	38.628	Shenshuitan	this study



11	XI-3390NCM17-B2Po	phyllic brecciated granite	1	pyrrhotite	18.555	15.651	38.702	Shenshuitan	this study
12	XI-3390NCM17-B2Py	phyllic brecciated granite	1	pyrite	18.470	15.656	38.605	Shenshuitan	this study
13	XI-3390NCM27-B1Py	phyllic brecciated granite	1	pyrite	18.530	15.650	38.581	Shenshuitan	this study
14	XI-3390NCM27-B2Apy	phyllic brecciated granite	1	arsenopyrite	18.441	15.639	38.505	Shenshuitan	this study
15	XI-3390NCM27-B3Apy	pyritized slate	2	arsenopyrite	18.459	15.629	38.459	Shenshuitan	this study
16	XI-3390NCM27-B3Po	pyritized slate	2	pyrrhotite	18.409	15.595	38.295	Shenshuitan	this study
17	XI-3390NCM29-B1Po	phyllic brecciated granite	1	pyrrhotite	18.400	15.605	38.341	Shenshuitan	this study
18	XI-3390NCM29-B1Py	phyllic brecciated granite	1	pyrite	18.398	15.620	38.401	Shenshuitan	this study
19	XI-3390NCM29-B2Apy	phyllic brecciated granite	1	arsenopyrite	18.427	15.628	38.467	Shenshuitan	this study
20	XI-3390NCM29-B2Py	phyllic brecciated granite	1	pyrite	18.440	15.644	38.517	Shenshuitan	this study
21	XI-3390NCM29-B3Apy	phyllic brecciated granite	1	arsenopyrite	18.418	15.626	38.458	Shenshuitan	this study
22	XI-3390NCM29-B3Py	phyllic brecciated granite	1	pyrite	18.444	15.655	38.554	Shenshuitan	this study
23	XI-3390NCM29-B4Apy	phyllic brecciated granite	1	arsenopyrite	18.439	15.613	38.401	Shenshuitan	this study
24	XI-3390NCM29-B4Po	phyllic brecciated granite	1	pyrrhotite	18.570	15.604	38.347	Shenshuitan	this study
25	XI-3390NCM29-B4Py	phyllic brecciated granite	1	pyrite	18.438	15.632	38.472	Shenshuitan	this study
26	XI-3390NCM29-B5Gn	quartz calcite vein in phyllic brecciated granite	3	galena	18.435	15.646	38.511	Shenshuitan	this study
27	XI-3390NCM29-B5Py	quartz calcite vein in phyllic brecciated granite	3	pyrite	18.431	15.641	38.498	Shenshuitan	this study
28	XI-3390NCM29-B5Sp	quartz calcite vein in phyllic brecciated granite	3	sphalerite	18.425	15.631	38.461	Shenshuitan	this study
29	XI-3390NCM29-B6Po	pyritized slate	2	pyrrhotite	18.483	15.669	38.667	Shenshuitan	this study
30	XI-3390NCM29-B6Py	pyritized slate	2	pyrite	18.521	15.610	38.558	Shenshuitan	this study
31	XI-3390NCM29-B7Gn	quartz calcite vein in phyllic brecciated granite	3	galena	18.418	15.627	38.449	Shenshuitan	this study
32	XI-3390NCM29-B7Py	quartz calcite vein in phyllic brecciated granite	3	pyrite	18.454	15.666	38.576	Shenshuitan	this study
33	XI-3390NCM29-B7Sp	quartz calcite vein in phyllic brecciated granite	3	sphalerite	18.425	15.632	38.467	Shenshuitan	this study
34	XI-3390NCM7-B1Apy	phyllic brecciated granite	1	arsenopyrite	18.327	15.605	38.329	Shenshuitan	this study
35	XI-3390NCM7-B1Po	phyllic brecciated granite	1	pyrrhotite	18.369	15.610	38.381	Shenshuitan	this study
36	XI-3390NCM7-B1Py	phyllic brecciated granite	1	pyrite	18.364	15.623	38.407	Shenshuitan	this study
37	XI-3390NCM7-B2Py	phyllic brecciated granite	1	pyrite	18.346	15.628	38.403	Shenshuitan	this study
38	XI-3390NCM7-B3Gn	pyritized slate	2	galena	18.373	15.673	38.541	Shenshuitan	this study
39	XI-3390NCM7-B3Po	pyritized slate	2	pyrrhotite	18.388	15.649	38.474	Shenshuitan	this study
40	XI-3390NCM7-B3Py	pyritized slate	2	pyrite	18.366	15.655	38.483	Shenshuitan	this study

41	XI-3390NCM7-B3Sp	pyritized slate	2	sphalerite	18.345	15.631	38.410	Shenshuitan	this study
42	HLG-PD3450-3-S6	phyllitic rock		pyrite	18.352	15.648	38.470	Shenshuitan	Liu 2017
43	HLG-PD3450-25-S1	phyllitic rock		pyrite	18.396	15.640	38.572	Shenshuitan	Liu 2017
44	HLG-PD3450-19-S3	phyllitic rock		pyrite	18.346	15.636	38.398	Shenshuitan	Liu 2017
45	XI-SDNCM3-B2-1	phyllitic rock		pyrite	18.449	15.639	38.523	Shenshuitan	Liu 2017
46	XI-SDNCM3-B5	phyllitic rock		pyrite	18.449	15.642	38.502	Shenshuitan	Liu 2017
47	XI-SDNCM3-B8	phyllitic rock		pyrite	18.395	15.632	38.435	Shenshuitan	Liu 2017
48	SST-1	phyllitic rock		pyrite	18.460	15.650	38.580	shenshuitan	Zhang 2018
49	SST-2	phyllitic rock		Galena	18.500	15.660	38.610	shenshuitan	Zhang 2018
50	SST-3	phyllitic rock		pyrite	18.250	15.600	38.180	shenshuitan	Zhang 2018
51	SST-4	phyllitic rock		pyrite	18.380	15.640	38.470	shenshuitan	Zhang 2018
52	SST-5	phyllitic rock		Galena	18.620	15.950	39.580	shenshuitan	Zhang 2018
53	SST-6	phyllitic rock		pyrite	18.360	15.610	38.300	shenshuitan	Zhang 2018
54	SST-7	phyllitic rock		Galena	18.380	15.590	38.540	shenshuitan	Zhang 2018
55	337000PD01-B2-Py	quartz vein		pyrite	18.453	15.635	38.450	Hongqigou	Cheng 2020
56	337000PD01-B3-Py	quartz vein		pyrite	18.424	15.678	38.538	Hongqigou	Cheng 2020
57	3810PD301-B1-Py	quartz vein		pyrite	18.275	15.656	38.555	Hongqigou	Cheng 2020
58	3810PD301-B1-Py	quartz vein		pyrite	18.265	15.655	38.535	Hongqigou	Cheng 2020
59	3810PD301-B3-Py	quartz vein		pyrite	18.479	15.639	38.448	Hongqigou	Cheng 2020
60	3810PD301-B4-Py	quartz vein		pyrite	18.422	15.632	38.388	Hongqigou	Cheng 2020
61	3810PD301-B5-Py	quartz vein		pyrite	18.421	15.639	38.450	Hongqigou	Cheng 2020
62	3810PD301-B6-Py	quartz vein		pyrite	18.297	15.624	38.469	Hongqigou	Cheng 2020
63	3810PD301-B7-Py	quartz vein		pyrite	18.444	15.636	38.442	Hongqigou	Cheng 2020
64	BLGTC104-B1	granite		K-feldspar	18.413	15.638	38.484	granite	Liu 2017
65	BLG-XJ-B8	granite		K-feldspar	18.411	15.634	38.496	granite	Liu 2017
66	BLG-XJ-B9	granite		K-feldspar	18.429	15.633	38.473	granite	Liu 2017
67	WLG-02-B01	granite		K-feldspar	18.593	15.632	38.436	granite	Liu 2017
68	WLG-03-B01	granite		K-feldspar	18.561	15.630	38.423	granite	Liu 2017
69	WLG-09-B01	granite		K-feldspar	18.488	15.628	38.443	granite	Liu 2017
70	WLG-19-B1	granite		K-feldspar	18.429	15.615	38.519	granite	Liu 2017
71	HLG-03-B1	granite		K-feldspar	18.789	15.643	38.957	granite	Liu 2017
72	HTG-03-B1	granodiorite		K-feldspar	18.249	15.608	38.211	granodiorite	Liu 2017
73	WLG-14-B01	Jinshuikou group gneiss		bulk rock	18.758	15.652	38.459	215Ma-corrected	Liu 2017
74	WLG-15-B01	Jinshuikou group gneiss		bulk rock	18.149	15.609	38.279	215Ma-corrected	Liu 2017
75	WLG-16-B01	Jinshuikou group gneiss		bulk rock	18.413	15.636	38.298	215Ma-corrected	Liu 2017
76	WLG-17-B01	Jinshuikou group gneiss		bulk rock	18.533	16.629	38.407	215Ma-corrected	Liu 2017
77	WLG-18-B01	Jinshuikou group gneiss		bulk rock	18.540	15.623	38.441	215Ma-corrected	Liu 2017
78	DHG-01-B3	Xiaomiao formation gneiss		bulk rock	19.378	15.689	37.995	215Ma-corrected	Liu 2017
79	DHG-02-B1	Xiaomiao formation gneiss		bulk rock	18.540	15.643	38.248	215Ma-corrected	Liu 2017
80	DHG-03-B1	Xiaomiao formation gneiss		bulk rock	19.113	15.683	38.381	215Ma-corrected	Liu 2017
81	DHG-04-B1	Xiaomiao formation gneiss		bulk rock	18.632	15.653	38.302	215Ma-corrected	Liu 2017
82	DHG-05-B1	Xiaomiao formation gneiss		bulk rock	18.713	15.647	38.208	215Ma-corrected	Liu 2017
83	BLG-03-B01	Jinshuikou group gneiss		bulk rock	18.443	15.614	38.376	215Ma-corrected	Liu 2017
84	BLG-02-B01	Jinshuikou group marble		bulk rock	18.017	15.586	38.145	215Ma-corrected	Liu 2017
85	HLG-07-B01	slate		bulk rock	17.973	15.610	37.722	215Ma-corrected	Liu 2017
86	HLG-08-B02	slate		bulk rock	18.571	15.649	38.452	215Ma-corrected	Liu 2017
87	HSGCM56-1-B01	carbonaceous slate		bulk rock	18.652	15.700	39.045	215Ma-corrected	Liu 2017
88	HSGCM56-1-B02	carbonaceous slate		bulk rock	18.470	15.700	38.777	215Ma-corrected	Liu 2017
89	HSGCM56-1-B03	marble		bulk rock	18.164	15.616	38.309	215Ma-corrected	Liu 2017
90	HSGCM64-2-B01	carbonaceous slate		bulk rock	19.107	15.789	39.432	215Ma-corrected	Liu 2017
91	HSGCM64-2-B02	carbonaceous slate		bulk rock	18.563	15.704	38.085	215Ma-corrected	Liu 2017
92	HSGCM64-2-B03	marble		bulk rock	18.244	15.605	38.344	215Ma-corrected	Liu 2017

93	HSGCM64-2-B04	marble	bulk rock	18.008	15.604	38.125	215Ma-corrected	Liu 2017
94	XI-42-B02	slate	bulk rock	18.542	15.631	38.384	215Ma-corrected	Liu 2017

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