

Table 1. Chemistry and descriptions of rock, pulp, and tailings samples from the Pea Ridge mine.

[gm/cm<sup>3</sup>, gram per cubic centimeter; ppm, parts per million; %, percent; ICPAES-MS-55, SGS Laboratories inductively coupled plasma atomic-emission mass spectrometry; ICP16, SGS Laboratories inductively coupled plasma mass spectrometry; ICP-MS, USGS inductively coupled plasma mass spectrometry; INAA, USGS instrumental neutron activation analysis (long count); INAA-SH, USGS instrumental neutron activation utilizing a short irradiation; WDXRF, USGS wavelength dispersive X-ray fluorescence; nd, not determined; LOI, loss on ignition at 925 °C]  
 [Green shading and gray shading (in print version) indicates preferred method for this element; except when WDXRF is done, it is the preferred method]

Analyte		Density (dry)	Ag	Al	Al	Al	Al	As	As	Au	Ba	Ba	Be	Bi	Ca	Ca	Ca	Cd	Ce	Ce	Co	Co	Cr	Cr	Cr	Cs	Cs	Cu	Dy	Er	Eu	Eu	Fe	Fe	Fe	Fe	Ga	Gd	Ge	Hf	Hf	Ho	Ho	In	K	K	K			
Unit		g/cm <sup>3</sup>	ppm	%	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm					
Analytical method			ICPAES-MS-55	ICP16	ICPAES-MS-55	INAA-SH	WDXRF	ICPAES-MS-55	INAA	ICP16	ICPAES-MS-55	INAA	ICP16	ICPAES-MS-55	INAA	ICP16	ICPAES-MS-55	INAA	ICP16	ICPAES-MS-55	INAA	ICP16	ICPAES-MS-55	INAA	ICP16	ICPAES-MS-55	INAA	ICP16	ICPAES-MS-55	INAA	ICP16	ICPAES-MS-55	INAA	ICP16	ICPAES-MS-55	INAA	ICP16	ICPAES-MS-55	INAA-SH	WDXRF										
Sample number	Mine level and drill hole number	Distance from drill collar (feet)	Sample length (inches)	Sample description																																														
08-MO-PR-1	Level 2275, DDH 14	11	6.0	full core, fine-grained foliated breccia, foliation defined by ribbons of quartz and translucent red crystals layered with bands of diffuse light tan colored layers, all are cut by veins of light green material	2.57	<1	7.3	6.72	7.27	<30	2.83	0.84	1390	1,330	1,400	<5	<0.1	0.29	0.33	0.32	<0.2	150	162	6.6	6.26	<10	10	5.26	1.5	1.45	<5	13.2	8.51	2.43	2.54	3.34	3.14	18	15.8	14.1	1	9	8.52	2.75	3.12	<0.2	5.2	4.43	4.880	
08-MO-PR-2	Level 2275, DDH 14	20	4.0	half core, massive medium-grained specular hematite with disseminated fine grained quartz	4.70	<1	0.35	0.25	0.36	<30	4.21	2.34	30	28.6	33.5	<5	<0.1	1.17	1.15	1.11	<0.2	364	409	2.9	2.68	<10	<10	13.50	<0.1	0.09	<5	19.4	12.6	2.11	2.25	57.4	>30	59.40	9	23.3	21.5	1	<1	0.33	4.08	4.67	<0.2	0.03	0.03	0.054
08-MO-PR-3	Level 2275, DDH 14	20.5	4.5	half core, brecciated medium-grained specular hematite clasts supported by deformed masses of quartz, green crystals and translucent red crystals, cut by a laminated layer of quartz layers, quartz plus green layers, and green layers (total thickness of about 0.1 in)	3.95	<1	1.2	1.03	1.23	<30	2.47	2.10	340	311	324	<5	<0.1	0.88	0.96	0.89	<0.2	183	205	2.2	1.89	<10	10	13.70	<0.1	0.13	<5	8.24	6.16	1.09	1.07	50.8	>30	53.00	8	10.4	9.1	2	1	1.17	1.86	2.12	<0.2	0.6	0.57	0.670
08-MO-PR-4	Level 2275, DDH 14	60	4.8	half core, breccia, mottled red (dominant) with patches of disseminated dark green fine-grained crystals and rare light colored (quartz-rich zones), red areas seem to be a mixture of quartz and translucent red crystals	4.53	<1	0.37	0.28	0.41	<30	4.78	4.95	20	23.1	35.4	<5	<0.1	2.69	2.71	2.83	<0.2	614	687	2.4	2.38	<10	<10	8.80	<0.1	0.03	<5	32.5	23.2	3.64	3.73	54.8	>30	58.20	11	38	33.2	2	<1	0.10	7.15	7.77	<0.2	<0.01	0.01	0.014
08-MO-PR-5	Level 2275, DDH 14	73	5.0	half core, massive fine-grained dark silver magnetite ore with several fragments of half core, massive fine-grained dark silver magnetite ore with disseminated coating (up to 0.25 mm thick) with translucent crystals, also has disseminated fine-grained silver sulfide with actinolite interstitial	3.83	<1	1.1	1.01	1.09	150	498	480	<10	14.2	1,660	21	2.4	2.01	2	<0.2	>10,000	140,165	17	16.40	<10	<10	1.00	0.1	0.13	42	>1,000	>1,000	633	611	3.31	3.33	2.66	601	>1,000	4,090	78	23	2.52	826	1070	<0.2	0.03	0.03	0.265	
08-MO-PR-6	Level 2275, DDH 14	85	4.0	half core, massive fine-grained dark silver magnetite ore with irregular zones of quartz, green crystals, and very fine reddish crystals	4.39	2	0.77	0.71	0.59	<30	8.56	10.40	30	30	74.2	<5	0.3	1.66	1.69	1.15	<0.2	1350	1,350	25.9	28.50	<10	10	9.59	<0.1	0.07	<5	42.8	26.3	7.02	7.23	58	>30	60.50	56	64.6	55.3	2	<1	0.11	8.43	9.49	<0.2	<0.01	0.017	
08-MO-PR-7	Level 2275, DDH 14	123	4.0	half core, massive fine-grained dark silver magnetite ore, a few shear surfaces in the magnetite, cut by white veinlets (that have branches), a veinlet of fine grained green (chlorite or actinolite) crystals, veinlet also has an irregular mass of reddish crystals	4.42	<1	1.03	0.94	0.73	<30	2.55	2.53	30	30	44.4	<5	<0.1	1.73	1.73	1.21	<0.2	617	692	58.6	60.60	<10	10	8.57	<0.1	0.02	<5	31.4	20.9	4.54	55.2	>30	55.80	63	41.6	35.5	2	<1	0.14	6.49	7.30	<0.2	<0.01	0.01	0.006	
08-MO-PR-8	Level 2275, DDH 14	163	3.5	core, fine-grained foliated breccia, foliation defined by white veinlets (that have branches), a veinlet of fine grained green (chlorite or actinolite) crystals, veinlet also has an irregular mass of reddish crystals	4.91	<1	0.23	0.22	0.19	<30	1.57	3.58	20	26.5	14.0	<5	<0.1	0.41	0.46	0.28	<0.2	252	260	62.6	86.30	<10	<10	11.30	<0.1	0.13	<5	7.52	4.7	1.06	1.03	61	>30	67.60	28	11.6	8.67	1	<1	0.20	1.64	1.70	<0.2	<0.01	0.016	
08-MO-PR-9	Level 2475, DDH 6	231	8.5	core, massive medium-grained specular hematite with irregular zones that are dark green to black	3.40	<1	1.55	1.4	1.34	<30	80	352	204.00	<10	12	1,180	11	0.4	2.84	2.77	2.50	<0.2	>10,000	91,800	15.9	13.20	<10	<10	1.99	<0.2	0.17	<5	30	>1,000	359	3.85	3.61	330	>1,000	2,780	44	13	3.61	384	597	<0.2	0.58	0.5	0.411	
08-MO-PR-10	Block 962, DDH 26	311	2.2	cubes, elongately, pale to dark green with black magnetite interstitial	3.25	<1	0.15	0.14	0.16	<30	1.70	6.93	<10	13.8	25.60	31	<0.1	4.43	4.35	4.35	<0.2	457	482	32.5	36.90	<10	10	4.08	<0.1	0.24	9	35.9	29.6	3.4	3.67	25.2	20.2	24.30	6	33.9	34.4	4	3	2.87	8.27	9.52	0.9	0.04	0.05	0.051
08-MO-PR-11	Block 962, DDH 26	311	2.2	cubes, elongately, pale to dark green with black magnetite interstitial	nd	6	2.66	2.36	2.49	<30	110	118	1550	1230	1,110	1,190	1,970	31	0.7	0.77	0.76	0.85	<0.2	>10,000	10,800	87.8	84.80	<10	30	19.30	0.4	0.61	152	340	242	71	2.00	87	441											