

APPENDIX 2

Summary of microthermometric data and calculated parameters for primary fluid inclusions in mineralized quartz from the Mazra'eh Shadi deposit (Radmard et al., 2017).

Sample	Phases	T _{fm} [°C]	T _{m, ice} [°C]	Th(L+V) [°C]	Salinity [wt.%]	Density [g/cm ³]	Homogenized to	Size [μm]	Shape	Au content [ppb]	Zn+Pb content [ppm]
MSF-19	L+V		-0.1	308.2	0.166	0.672	L	61.1	Elongate		
MSF-19	L+V	-21	-1.3	178.9	2.143	0.908	L	13.9	Irregular		
MSF-19	V+L		-0.8	173.4	1.322	0.908	V	7.3	Irregular		
MSF-19	V+L		-0.7	287.1	1.158	0.733	V	15.0	Spherical		
MSF-19	L+V		-0.5	221.1	0.827	0.844	L	12.0	Spherical		
MSF-19	L+V	-26	-2.8	201.9	4.546	0.902	L	5.2	Spherical		
MSF-19	L+V	-23	-2.3	209.5	3.757	0.887	L	16.0	Elongate		
MSF-19	L+V		-1.1	178.2	1.816	0.906	V	6.1	Elongate		
MSF-19	L+V		-1.9	204.5	3.117	0.887	L	7.4	Spherical		
MSF-19	L+V	-22	-1.6	251.7	2.632	0.818	L	11.4	Spherical		
MSF-19	L+V	-22	-2.1	256.6	3.438	0.819	L	16.3	Spherical	59	1156
MSF-19	L+V		-1.4	231.2	2.306	0.844	L	11.3	Spherical		
MSF-19	L+V		-2.6	267.3	4.232	0.81	L	6.9	Spherical		
MSF-19	L+V		-2	210.4	3.278	0.881	L	9.7	Elongate		
MSF-19	L+V	-23	-1.8	190.5	2.956	0.9	L	11.1	Elongate		
MSF-19	V+L	-22	-0.9	270.0	1.487	0.771	V	12.1	Spherical		
MSF-19	V+L	-22	-0.4	298.3	0.662	0.702	V	31.2	Elongate		
MSF-19	V+L		-0.1	255.9	0.166	0.782	V	10.6	Spherical		
MSF-19	V+L		-0.3	259.9	0.497	0.779	V	17.2	Spherical		
MSF-19	V+L		-0.6	324.1	0.993	0.647	V	16.3	Elongate		
MSF-19	L+V	-24	-2.1	189.2	3.438	0.905	L	30.8	Spherical		
MSF-17	L+V	-21	-0.6	216.1	0.993	0.853	L	90.1	Elongate		
MSF-17	L+V	-20	-0.3	211.8	0.497	0.855	L	92.8	Elongate		
MSF-17	L+V		-1.1	200.3	1.816	0.881	L	10.9	Irregular		
MSF-17	L+V		-1.6	202.5	2.632	0.886	L	15.2	Spherical		
MSF-17	L+V		-0.8	192.6	1.322	0.886	L	9.8	Spherical		
MSF-17	L+V	-23	-2.1	238.6	3.438	0.846	L	45.0	Oval		
MSF-17	L+V	-25	-1.8	239.7	2.956	0.840	L	15.5	Spherical		
MSF-17	L+V	-21	-1.5	208.8	2.469	0.877	L	13.5	Irregular		
MSF-17	L+V		-1.3	160.5	2.143	0.927	L	21.7	Elongate		
MSF-17	L+V		-1.9	209.8	3.117	0.881	L	11.7	Elongate		
MSF-17	L+V	-24	-2.1	214.3	3.438	0.878	L	4.3	Spherical	2420	4173
MSF-17	L+V	-22	-1.5	255.6	2.469	0.809	L	27.9	Irregular		
MSF-17	L+V		-1.2	193.9	1.979	0.89	L	8.8	Irregular		
MSF-17	L+V	-22	-1.9	206.6	3.117	0.885	L	20.2	Elongate		
MSF-17	L+V	-23	-2.3	241.4	3.757	0.845	L	20.0	Elongate		
MSF-17	L+V	-21	-2.0	252.3	3.278	0.823	L	12.1	Spherical		
MSF-17	L+V		-1.6	176.2	2.632	0.913	L	9.6	Spherical		
MSF-17	L+V		-0.9	248.1	1.487	0.809	L	13.0	Spherical		
MSF-17	L+V	-22	-0.5	232.7	0.827	0.828	L	9.2	Spherical		
MSF-17	L+V		-0.3	228.1	0.497	0.83	L	11.9	Spherical		
MSF-17	L+V	-21	-0.9	269.5	1.487	0.773	L	13.9	Irregular		

Appendix 2. (cont.)

Sample	Phases	T _{fm} [°C]	T _{m, ice} [°C]	Th(L+V) [°C]	Salinity [wt %]	Density [g/cm ³]	Homogenized to	Size [μm]	Shape	Au content [ppb]	Zn+Pb content [ppm]
Hen-07-D66	L+V	-22	-1.8	209.1	2.956	0.88	L	16.5	Irregular		
Hen-07-D66	L+V	-21	-1.3	210.6	2.143	0.871	L	20.0	Elongate		
Hen-07-D66	L+V		-0.4	225.4	0.662	0.837	L	13.1	Spherical		
Hen-07-D66	L+V		-0.1	221.2	0.166	0.838	L	10.6	Oval		
Hen-07-D66	L+V	-22	-1	302.3	1.651	0.709	L	10.3	Oval		
Hen-07-D66	L+V		-0.9	236.8	1.487	0.829	L	7.5	Elongate		
Hen-07-D66	L+V	-19	-0.5	229.7	0.827	0.832	L	18.5	Irregular		
Hen-07-D66	L+V	-21	-0.7	226.6	1.158	0.84	L	12.2	Spherical		
Hen-07-D66	L+V	-24	-2.1	189.9	3.438	0.905	L	10	Elongate		
Hen-07-D66	L+V		-1.1	220.1	1.816	0.855	L	8.8	Elongate	813	389
Hen-07-D66	L+V		-1.7	231.6	2.794	0.849	L	10.6	Oval		
Hen-07-D66	L+V	-26	-3.1	243.3	5.012	0.855	L	21.8	Elongate		
Hen-07-D66	L+V	-21	-1.6	212.5	2.632	0.873	L	10.7	Oval		
Hen-07-D66	L+V	-29	-3.2	222.6	5.166	0.883	L	12	Spherical		
Hen-07-D66	L+V		-2.9	215.1	4.702	0.888	L	13.5	Elongate		
Hen-07-D66	L+V		-1.8	220.6	2.956	0.866	L	8.2	Spherical		
Hen-07-D66	L+V	-27	-2.5	265	4.074	0.812	L	15.8	Spherical		
Hen-07-D66	L+V		-1.1	233.1	1.816	0.837	L	7.1	Spherical		
Hen-07-D66	L+V	-24	-1.2	201.9	1.979	0.881	L	10.6	Elongate		
Hen-07-D61	L+V		-1.4	233.9	2.306	0.842	L	8.5	Spherical		
Hen-07-D61	L+V		-0.5	252.7	0.827	0.795	L	7.1	Spherical		
Hen-07-D61	L+V		-1.9	224.5	3.117	0.862	L	9.7	Oval		
Hen-07-D61	L+V	-21	-0.2	244.8	0.331	0.803	L	13.3	Elongate		
Hen-07-D61	L+V		-0.7	210.4	1.158	0.863	L	6.2	Rectangular		
Hen-07-D61	L+V		-1	218.1	1.651	0.856	L	5.8	Spherical		
Hen-07-D61	L+V	-20	-0.2	234.2	0.331	0.819	L	8.6	Elongate		
Hen-07-D61	L+V	-21	-0.4	196.1	0.662	0.877	L	12.7	Elongate		
Hen-07-D61	L+V		-0.4	213.3	0.662	0.854	L	6.4	Irregular		
Hen-07-D61	L+V		-1.7	176.7	2.794	0.915	L	11.2	Irregular	314	589
Hen-07-D61	L+V	-24	-2.2	216	3.598	0.877	L	14.5	Spherical		
Hen-07-D61	L+V		-1.4	221.3	2.306	0.858	L	6.6	Elongate		
Hen-07-D61	L+V	-19	-1.3	206.2	2.143	0.857	L	6.1	Oval		
Hen-07-D61	L+V		-0.4	219.3	0.662	0.845	L	6.6	Irregular		
Hen-07-D61	L+V		-0.9	202.7	1.487	0.876	L	9.7	Spherical		
Hen-07-D61	L+V		-1.5	250.9	2.469	0.817	L	6.1	Spherical		
Hen-07-D61	L+V	-20	-0.9	219.1	1.487	0.853	L	12.1	Irregular		
Hen-07-D61	L+V		-2.2	230.4	3.598	0.859	L	6.6	Irregular		
Hen-07-D61	L+V		-1.3	218.5	2.143	0.861	L	6.4	Irregular		
Hen-07-D155	L+V	-25	-1.7	233.7	2.794	0.847	L	10.8	Irregular		
Hen-07-D155	L+V	-19	-0.5	219.3	0.827	0.847	L	8	Oval		
Hen-07-D155	L+V		-1.5	225.5	2.469	0.855	L	7.8	Oval		
Hen-07-D155	L+V		-0.6	259.5	0.993	0.785	L	8.5	Spherical	52	1474
Hen-07-D155	L+V		-0.5	240.2	0.827	0.815	L	7.4	Spherical		
Hen-07-D155	L+V	-21	-0.3	257.5	0.497	0.782	L	5.5	Spherical		
Hen-07-D155	L+V		-0.4	280.7	0.662	0.74	L	7.9	Oval		

Appendix 2. (cont.)

Sample	Phases	T _{fm} [°C]	T _{m, ice} [°C]	Th(L+V) [°C]	Salinity [wt.%]	Density [g/cm ³]	Homogenized to	Size [μm]	Shape	Au content [ppb]	Zn+Pb content [ppm]
Hen-07-D155	L+V	-22	-0.5	241.6	0.827	0.813	L	4.9	Elongate		
Hen-07-D155	L+V		-0.9	260.3	1.487	0.789	L	8.7	Spherical	52	1474
Hen-07-D155	L+V	-22	-1.2	218.8	1.979	0.859	L	8.8	Elongate		
Hen-08-D65	L+V		-0.6	229.3	0.993	0.834	L	14.2	Spherical		
Hen-08-D65	L+V		-0.8	261.6	1.322	0.785	L	6.6	Irregular		
Hen-08-D65	L+V		-1.1	249.1	1.816	0.812	L	5.3	Spherical		
Hen-08-D65	L+V		-0.5	195.5	0.827	0.879	L	29.1	Spherical		
Hen-08-D65	L+V		-0.4	267.9	0.662	0.766	L	37	Oval		
Hen-08-D65	L+V		-0.1	208.1	0.166	0.856	L	12.8	Elongate		
Hen-08-D65	L+V		-0.4	251.6	0.662	0.795	L	13.8	Spherical		
Hen-08-D65	L+V		-0.3	232.4	0.497	0.824	L	7.9	Oval		
Hen-08-D65	L+V		-0.5	205.4	0.827	0.866	L	10.8	Elongate	70	368
Hen-08-D65	L+V		-0.9	220.5	1.487	0.852	L	16.4	Elongate		
Hen-08-D65	L+V		-1.4	252.1	2.306	0.812	L	6.9	Irregular		
Hen-08-D65	L+V		-1.7	217.7	2.794	0.868	L	8.2	Elongate		
Hen-08-D65	L+V		-0.7	193.8	1.158	0.884	L	8.7	Elongate		
Hen-08-D65	L+V		-0.2	199.6	0.331	0.87	L	11.2	Elongate		
Hen-08-D65	L+V		-1.5	239.4	2.469	0.834	L	24.8	Spherical		
Hen-08-D65	L+V		-1.2	227.1	1.979	0.847	L	21.3	Spherical		
AVRAGE		-22.	-1.2	227.9	1.94	0.84		14.4			
MAX		-19	-0.1	324.1	5.17	0.93		92.8			
MIN		-29	-3.2	160.5	0.17	0.65		4.3			