

Ap. 1-2 Core Sample List (25)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
601	7A0601	MJKA-7	50.1~51.1	1.0	Granodiorite			○			
602	7A0602	MJKA-7	51.1~52.1	1.0	Granodiorite			○			
603	7A0603	MJKA-7	52.1~53.1	1.0	Granodiorite			○			
604	7A0604	MJKA-7	53.1~54.1	1.0	Granodiorite			○			
605	7A0605	MJKA-7	54.1~55.1	1.0	Granodiorite			○			
606	7A0606	MJKA-7	55.1~56.1	1.0	Granodiorite			○			
607	7A0607	MJKA-7	56.1~57.2	1.1	Granodiorite			○			
608	7A0608	MJKA-7	57.2~57.6	0.4	Lamprophyre			○			
609	7A0609	MJKA-7	57.6~58.6	1.0	Granodiorite			○			
610	7A0610	MJKA-7	58.6~59.6	1.0	Granodiorite			○			
611	7A0611	MJKA-7	59.6~60.6	1.0	Granodiorite			○			
612	7A0612	MJKA-7	60.6~61.6	1.0	Granodiorite			○			
613	7A0613	MJKA-7	61.6~62.6	1.0	Granodiorite			○	○		62.6m(X)
614	7A0614	MJKA-7	62.6~63.6	1.0	Granodiorite			○			
615	7A0615	MJKA-2	34.0~35.0	1.0	Chloritized granodiorite			○			
616	7A0616	MJKA-2	35.0~36.0	1.0	Chloritized granodiorite			○			
617	7A0617	MJKA-2	36.0~37.0	1.0	Chloritized granodiorite			○			
618	7A0618	MJKA-2	37.0~38.0	1.0	Chloritized granodiorite			○			
619	7A0619	MJKA-2	38.0~39.5	1.5	Chloritized granodiorite			○			
620	7A0620	MJKA-2	39.5~40.1	0.6	Lamprophyre			○			
621	7A0621	MJKA-2	40.1~41.1	1.0	Granodiorite porphyry			○			
622	7A0622	MJKA-2	41.1~42.1	1.0	Granodiorite porphyry			○			
623	7A0623	MJKA-2	42.1~43.1	1.0	Granodiorite porphyry			○			
624	7A0624	MJKA-2	43.1~44.0	0.9	Lamprophyre			○			
625	7A0625	MJKA-2	44.0~45.0	1.0	Granodiorite porphyry			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Ap. 1-2 Core Sample List (26)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
626	7A0626	MJKA-2	45.0~46.6	1.6	Granodiorite porphyry			○			
627	7A0627	MJKA-2	46.6~47.6	1.0	Chloritized granodiorite			○			
628	7A0628	MJKA-2	47.6~48.5	0.9	Chloritized granodiorite			○			
629	7A0629	MJKA-2	48.5~49.5	1.0	Strong chlorite altered rock			○			
630	7A0630	MJKA-2	49.5~50.5	1.0	Strong chlorite altered rock			○			
631	7A0631	MJKA-2	50.5~51.5	1.0	Strong chlorite altered rock			○			
632	7A0632	MJKA-2	51.5~52.5	1.0	Strong chlorite altered rock			○			
633	7A0633	MJKA-2	52.5~53.5	1.0	Strong chlorite altered rock			○			
634	7A0634	MJKA-2	53.5~54.5	1.0	Strong chlorite altered rock			○			
635	7A0635	MJKA-2	54.5~55.5	1.0	Strong chlorite altered rock			○			
636	7A0636	MJKA-2	55.5~57.1	1.6	Strong chlorite altered rock			○			
637	7A0637	MJKA-2	57.1~58.1	1.0	Strong chloritized granodiorite			○			
638	7A0638	MJKA-2	58.1~59.1	1.0	Strong chloritized granodiorite			○			
639	7A0639	MJKA-2	59.1~60.1	1.0	Strong chloritized granodiorite			○			
640	7A0640	MJKA-2	60.1~61.1	1.0	Strong chloritized granodiorite			○			
641	7A0641	MJKA-7	113.0	0.1	Olive sticky clay				○		113.0m(X)
642	7A0642	MJKA-7	123.0~124.0	1.0	White altered aplitic rock			○			
743	7A0643	MJKA-7	124.0~125.0	1.0	Limonitized granodiorite			○			
644	7A0644	MJKA-7	125.0~125.2	0.2	Shear with cal qtz asp-py		○	○	○		125.1m(P,X)
645	7A0645	MJKA-7	125.2~126.2	1.0	Limonitized granodiorite			○			
646	7A0646	MJKA-7	126.2~127.2	1.0	Limonitized granodiorite			○			
647	7A0647	MJKA-7	140.0~141.0	1.0	Granodiorite			○			
648	7A0648	MJKA-7	141.0~142.0	1.0	Limonitized granodiorite			○			
649	7A0649	MJKA-7	142.0~143.0	1.0	Limonitized granodiorite with py conc.			○			
650	7A0650	MJKA-7	143.0~144.0	1.0	Limonitized granodiorite			○			

T: Thin section, P: Polished section, C: Chemical assay analysis.

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Apx. 1-2 Core Sample List (27)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
651	7A0651	MJKA-7	144.0~145.0	1.0	Limonitized granodiorite			○			
652	7A0652	MJKA-7	145.0~146.0	1.0	Limonitized granodiorite			○			
653	7A0653	MJKA-7	146.0~147.0	1.0	Limonitized granodiorite			○			
654	7A0654	MJKA-7	147.0~148.0	1.0	Limonitized granodiorite			○			
655	7A0655	MJKA-7	148.0~149.0	1.0	Limonitized granodiorite			○			
656	7A0656	MJKA-7	149.0~150.0	1.0	Limonitized granodiorite			○			
657	7A0657	MJKA-7	150.0~151.0	1.0	Limonitized granodiorite			○			
658	7A0658	MJKA-7	151.0~152.0	1.0	Limonitized granodiorite			○			
759	7A0659	MJKA-7	152.0~153.0	1.0	Limonitized granodiorite			○			
660	7A0660	MJKA-7	153.0~154.0	1.0	Limonitized granodiorite			○			
661	7A0661	MJKA-7	154.0~155.0	1.0	Limonitized granodiorite			○			
662	7A0662	MJKA-7	155.0~156.0	1.0	Limonitized granodiorite			○			
663	7A0663	MJKA-7	156.0~157.0	1.0	White altered aplite			○			
664	7A0664	MJKA-7	157.0~158.0	1.0	White altered aplite			○			
665	7A0665	MJKA-7	158.0~159.0	1.0	White altered aplite			○			
666	7A0666	MJKA-7	159.0~160.0	1.0	White altered aplite			○			
667	7A0667	MJKA-7	160.0~161.0	1.0	White altered aplite			○			
668	7A0668	MJKA-7	161.0~162.0	1.0	White altered aplite			○			
669	7A0669	MJKA-7	162.0~163.0	1.0	White altered aplite			○			
670	7A0670	MJKA-7	163.0~164.0	1.0	White altered aplite			○			
671	7A0671	MJKA-7	164.0~165.0	1.0	White altered aplite			○			
672	7A0672	MJKA-7	165.0~166.0	1.0	White altered aplite			○			
673	7A0673	MJKA-7	166.0~167.0	1.0	White altered aplite			○			
674	7A0674	MJKA-7	167.0~168.0	1.0	White altered aplite			○			
675	7A0675	MJKA-7	168.0~169.0	1.0	White altered aplite			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Ap. 1-2 Core Sample List (28)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
676	7A0676	MJKA-7	169.0~170.0	1.0	White altered aplite			○			
677	7A0677	MJKA-7	170.0~171.0	1.0	White altered aplite			○			
678	7A0678	MJKA-7	171.0~172.0	1.0	White altered aplite			○			
679	7A0679	MJKA-7	172.0~173.0	1.0	White altered aplite			○			
680	7A0680	MJKA-7	173.0~174.0	1.0	White altered aplite			○			
681	7A0681	MJKA-7	174.0~175.0	1.0	White altered aplite			○			
682	7A0682	MJKA-7	175.0~176.0	1.0	White altered aplite			○			
683	7A0683	MJKA-7	176.0~177.0	1.0	White altered aplite	○	○	○			176.8m(T,P)
684	7A0684	MJKA-7	177.0~178.0	1.0	White altered aplite			○			
685	7A0685	MJKA-7	178.0~179.0	1.0	White altered aplite			○	○		179.0m(X)
686	7A0686	MJKA-7	179.0~180.0	1.0	White altered aplite			○			
687	7A0687	MJKA-7	180.0~181.0	1.0	White altered aplite			○			
688	7A0688	MJKA-7	181.0~182.0	1.0	White altered aplite			○			
689	7A0689	MJKA-7	182.0~183.0	1.0	White altered aplite			○			
690	7A0690	MJKA-7	183.0~184.0	1.0	White altered aplite			○			
691	7A0691	MJKA-2	164.0~165.0	1.0	Granodiorite with ars py veinlet			○			
692	7A0692	MJKA-2	165.0~166.0	1.0	Granodiorite			○			
693	7A0693	MJKA-2	166.0~167.2	1.2	Granodiorite			○			
694	7A0694	MJKA-2	167.2~168.2	1.0	Aplite			○			
695	7A0695	MJKA-2	168.2~169.2	1.0	Aplite			○			
696	7A0696	MJKA-2	169.2~169.8	0.6	Aplite			○			
697	7A0697	MJKA-2	169.8~170.8	1.0	Limonitized granodiorite			○			
698	7A0698	MJKA-2	170.8~171.8	1.0	Limonitized granodiorite			○			
699	7A0699	MJKA-2	188.4~189.4	1.0	Limonitized granodiorite			○			
700	7A0700	MJKA-2	189.4~190.4	1.0	Limonitized granodiorite			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Ap. 1-2 Core Sample List (29)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
701	7A0701	MJKA-2	190.4~191.4	1.0	Limonitized granodiorite			○			
702	7A0702	MJKA-2	191.4~192.4	1.0	Limonitized granodiorite			○			
703	7A0703	MJKA-2	192.4~193.4	1.0	Limonitized granodiorite			○			
704	7A0704	MJKA-2	193.4~194.4	1.0	Limonitized granodiorite			○			
705	7A0705	MJKA-2	194.4~195.3	0.9	Limonitized granodiorite			○			
706	7A0706	MJKA-2	241.0~242.0	1.0	White altered aplite			○			
707	7A0707	MJKA-2	242.0~243.0	1.0	White altered aplite			○			
708	7A0708	MJKA-2	243.0~243.3	0.3	Brecciated cal py-arsenopyrite vein		○	○	○		243.2m(P),243.3m(X)
709	7A0709	MJKA-2	243.3~244.5	1.0	White altered aplite with asp veinlet			○			
710	7A0710	MJKA-11	55.0~56.0	1.0	Granodiorite porphyry			○			
711	7A0711	MJKA-11	56.0~57.0	1.0	Granodiorite porphyry			○			
712	7A0712	MJKA-11	57.0~57.7	0.7	Granodiorite porphyry			○			
713	7A0713	MJKA-11	57.7~59.1	1.4	Silicified skarn			○			
714	7A0714	MJKA-11	59.1~60.1	1.0	Aplitic rock			○			
715	7A0715	MJKA-11	60.1~61.1	1.0	Aplitic rock			○			
716	7A0716	MJKA-11	61.1~62.1	1.0	Aplitic rock			○			
717	7A0717	MJKA-11	62.1~63.1	1.0	Aplitic rock			○			
718	7A0718	MJKA-11	63.1~64.6	1.5	Aplitic rock			○			
719	7A0719	MJKA-11	64.6~65.6	1.0	Aplitic rock			○			
720	7A0720	MJKA-11	65.6~66.6	1.0	Aplitic rock			○			
721	7A0721	MJKA-11	66.6~67.6	1.0	Aplitic rock			○	○		67.2m(X)
722	7A0722	MJKA-11	67.6~68.6	1.0	Aplitic rock			○			
723	7A0723	MJKA-11	68.6~69.6	1.0	Aplitic rock			○			
724	7A0724	MJKA-11	69.6~70.6	1.0	Aplitic rock			○			
725	7A0725	MJKA-11	70.6~71.6	1.0	Aplitic rock			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Ap. 1-2 Core Sample List (30)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
726	7A0726	MJKA-11	71.6~72.6	1.0	Aplitic rock			○			
727	7A0727	MJKA-11	72.6~73.4	0.8	Aplitic rock			○			
728	7A0728	MJKA-11	73.4~74.4	1.0	Granodiorite			○			
729	7A0729	MJKA-11	74.4~75.4	1.0	Granodiorite			○			
730	7A0730	MJKA-11	75.4~76.4	1.0	Granodiorite			○			
731	7A0731	MJKA-11	76.4~78.0	1.6	Granodiorite			○			
732	7A0732	MJKA-11	78.0~79.0	1.0	Px skarn & chlorite px sk rock			○			
733	7A0733	MJKA-11	79.0~80.0	1.0	Pyroxene skarn	○	○	○			78.5m(P),78.6m(T)
734	7A0734	MJKA-11	80.0~81.0	1.0	Chlorite px sk rock			○			
735	7A0735	MJKA-11	81.0~82.0	1.0	Chlorite px sk rock			○			
736	7A0736	MJKA-11	82.0~82.8	0.8	Chlorite px sk rock			○			
737	7A0737	MJKA-11	86.0~87.0	1.0	Granodiorite			○			
738	7A0738	MJKA-11	87.0~88.0	1.0	Granodiorite			○			
739	7A0739	MJKA-11	88.0~89.0	1.0	Granodiorite			○			
740	7A0740	MJKA-11	89.0~90.0	1.0	Granodiorite			○			
741	7A0741	MJKA-11	90.0~91.0	1.0	Granodiorite			○			
742	7A0742	MJKA-11	91.0~92.0	1.0	Granodiorite			○			
743	7A0743	MJKA-11	92.0~93.0	1.0	Granodiorite			○			
744	7A0744	MJKA-11	93.0~94.1	1.1	Granodiorite			○			
745	7A0745	MJKA-11	97.1~98.1	1.0	Limonitized aplite			○			
746	7A0746	MJKA-11	98.1~99.1	1.0	Limonitized aplite			○			
747	7A0747	MJKA-11	99.1~100.2	1.1	Limonitized aplite			○			
748	7A0748	MJKA-11	100.2~101.2	1.0	Limonitized granodiorite			○			
749	7A0749	MJKA-11	101.2~102.2	1.0	Limonitized granodiorite			○			
750	7A0750	MJKA-11	102.2~103.2	1.0	Limonitized granodiorite			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Ap. 1-2 Core Sample List (31)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
751	7A0751	MJKA-11	103.2~104.2	1.0	Limonitized granodiorite			○			
752	7A0752	MJKA-11	104.2~105.5	1.3	Limonitized granodiorite			○			
753	7A0753	MJKA-11	105.5~105.8	0.3	Aplite			○			
754	7A0754	MJKA-11	105.8~106.8	1.0	Limonitized granodiorite			○			
755	7A0755	MJKA-11	106.8~107.8	1.0	Limonitized granodiorite			○			
756	7A0756	MJKA-11	107.8~108.8	1.0	Limonitized granodiorite			○			
757	7A0757	MJKA-11	108.8~109.8	1.0	Limonitized granodiorite			○			
758	7A0758	MJKA-11	109.8~110.8	1.0	Limonitized granodiorite			○			
759	7A0759	MJKA-11	110.8~111.8	1.0	Limonitized granodiorite			○			
760	7A0760	MJKA-11	111.8~112.8	1.0	Limonitized granodiorite			○			
761	7A0761	MJKA-11	112.8~113.8	1.0	Limonitized granodiorite			○			
762	7A0762	MJKA-11	113.8~114.8	1.0	Limonitized granodiorite			○			
763	7A0763	MJKA-11	114.8~115.8	1.0	Limonitized granodiorite			○			
764	7A0764	MJKA-11	115.8~116.8	1.0	Limonitized granodiorite			○			
765	7A0765	MJKA-11	116.8~117.8	1.0	Limonitized granodiorite			○			
766	7A0766	MJKA-11	117.8~118.8	1.0	Limonitized granodiorite			○			
767	7A0767	MJKA-11	118.8~119.8	1.0	Limonitized granodiorite			○			
768	7A0768	MJKA-11	119.8~120.8	1.0	Limonitized granodiorite			○			
769	7A0769	MJKA-11	120.8~121.8	1.0	Limonitized granodiorite			○			
770	7A0770	MJKA-11	121.8~122.8	1.0	Limonitized granodiorite			○			
771	7A0771	MJKA-11	122.8~123.8	1.0	Limonitized granodiorite			○			
772	7A0772	MJKA-7	184.0~185.1	1.1	White altered aplite			○			
773	7A0773	MJKA-7	185.1~186.1	1.0	Porphyrite			○			
774	7A0774	MJKA-7	186.1~187.2	1.1	Porphyrite			○			
775	7A0775	MJKA-7	187.2~188.2	1.0	Aplite			○			

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X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Apx. 1-2 Core Sample List (32)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
776	7A0776	MJKA-7	188.2~189.2	1.0	Limonitized granodiorite			○			
777	7A0777	MJKA-7	189.2~190.2	1.0	Limonitized granodiorite			○			
778	7A0778	MJKA-7	190.2~191.2	1.0	Limonitized granodiorite			○			
779	7A0779	MJKA-7	191.2~192.7	1.5	Limonitized granodiorite			○			
780	7A0780	MJKA-7	192.7~193.7	1.0	Granodiorite			○			
781	7A0781	MJKA-7	193.7~194.7	1.0	Granodiorite			○			
782	7A0782	MJKA-7	194.7~195.7	1.0	Granodiorite			○			
783	7A0783	MJKA-7	195.7~196.7	1.0	Granodiorite			○			
784	7A0784	MJKA-7	196.7~197.7	1.0	Granodiorite			○			
785	7A0785	MJKA-7	197.7~198.7	1.0	Granodiorite			○			
786	7A0786	MJKA-7	198.7~199.9	1.2	Granodiorite			○			
787	7A0787	MJKA-7	199.9~201.4	1.5	Altered lamprophyre	○		○			200.6m(T)
788	7A0788	MJKA-7	201.4~202.4	1.0	Granodiorite			○			
789	7A0789	MJKA-7	202.4~203.4	1.0	Granodiorite			○			
790	7A0790	MJKA-7	203.4~204.4	1.0	Granodiorite			○			
791	7A0791	MJKA-7	213.5	0.1	Clay in shear				○		213.5m(X)
792	7A0792	MJKA-11	82.8~86.0	3.2	Olive sticky clay with granodio. pebble			○	○		85.5m(X)
793	7A0793	MJKA-11	94.1~97.1	3.0	Ochre yellow sticky clay with granodio. pebbles			○	○		96.2m(X)
794	7A0794	MJKA-4	12.6~13.6	1.0	Limonitized altered rock			○	○		13.5m(X)
795	7A0795	MJKA-4	13.6~15.0	1.4	Limonitized altered rock			○			
796	7A0796	MJKA-4	15.0~15.9	0.9	Quartz pyroxene skarn			○			
797	7A0797	MJKA-4	15.9~16.3	0.4	Limonitized brecciated zone			○			
798	7A0798	MJKA-4	16.3~17.5	1.2	Quartz pyroxene skarn			○			
799	7A0799	MJKA-4	17.5~17.8	0.3	Limonitized altered rock			○			
800	7A0800	MJKA-4	17.8~18.2	0.4	Pyroxene wollastonite skarn			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion



Apx. 1-2 Core Sample List (33)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
801	7A0801	MJKA-4	18.2~19.2	1.0	Quartz pyroxene skarn			○			
802	7A0802	MJKA-4	19.2~20.0	0.8	Quartz pyroxene skarn			○			
803	7A0803	MJKA-4	20.0~20.6	0.6	Limonitized aplite			○			
804	7A0804	MJKA-4	20.6~21.6	1.0	Quartz pyroxene skarn			○			
805	7A0805	MJKA-4	21.6~22.6	1.0	Quartz pyroxene skarn			○			
806	7A0806	MJKA-4	22.6~23.3	0.7	Quartz pyroxene skarn			○			
807	7A0807	MJKA-4	23.3~24.3	1.0	Limonitized aplite			○			
808	7A0808	MJKA-4	24.3~24.8	0.5	Limonitized aplite			○			
809	7A0809	MJKA-4	24.8~25.8	1.0	Quartz pyroxene skarn			○			
810	7A0810	MJKA-4	25.8~26.8	1.0	Quartz pyroxene skarn			○			
811	7A0811	MJKA-4	26.8~27.8	1.0	Quartz pyroxene skarn			○			
812	7A0812	MJKA-4	27.8~28.8	1.0	Quartz pyroxene skarn			○			
813	7A0813	MJKA-4	28.8~29.8	1.0	Quartz pyroxene skarn			○			
814	7A0814	MJKA-4	29.8~30.8	1.0	Quartz pyroxene skarn			○			
815	7A0815	MJKA-4	30.8~31.8	1.0	Quartz pyroxene skarn			○			
816	7A0816	MJKA-4	31.8~32.8	1.0	Quartz pyroxene skarn			○			
817	7A0817	MJKA-4	32.8~33.8	1.0	Quartz pyroxene skarn			○			
818	7A0818	MJKA-4	33.8~34.8	1.0	Quartz pyroxene skarn			○			
819	7A0819	MJKA-4	34.8~35.8	1.0	Quartz pyroxene skarn			○			
820	7A0820	MJKA-4	35.8~36.8	1.0	Quartz pyroxene skarn			○			
821	7A0821	MJKA-4	36.8~38.2	1.4	Quartz pyroxene skarn			○			
822	7A0822	MJKA-4	38.2~38.6	0.4	Limonite chlorite carbonate altered rock			○			
823	7A0823	MJKA-4	38.6~39.6	1.0	Quartz pyroxene skarn			○			
824	7A0824	MJKA-4	39.6~40.6	1.0	Pyroxene skarn			○			
825	7A0825	MJKA-4	40.6~41.6	1.0	Pyroxene skarn			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Ap. 1-2 Core Sample List (34)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
826	7A0826	MJKA-4	41.6~42.6	1.0	Pyroxene skarn			○			
827	7A0827	MJKA-4	42.6~43.6	1.0	Quartz pyroxene skarn			○			
828	7A0828	MJKA-4	43.6~44.6	1.0	Quartz pyroxene skarn			○			
829	7A0829	MJKA-4	44.6~45.6	1.0	Quartz pyroxene skarn			○			
830	7A0830	MJKA-4	45.6~46.6	1.0	Quartz pyroxene skarn			○			
831	7A0831	MJKA-4	46.6~47.75	1.15	Quartz pyroxene skarn			○			
832	7A0832	MJKA-4	47.75~48.0	0.25	Granodiorite porphyry			○			
833	7A0833	MJKA-4	48.0~48.6	0.6	Quartz pyroxene skarn			○			
834	7A0834	MJKA-4	48.6~49.4	0.8	Brecciated pyrite quartz zone		○	○			79.0m(P)
835	7A0835	MJKA-4	49.4~50.4	1.0	Quartz pyroxene skarn			○			
836	7A0836	MJKA-4	50.4~51.8	1.4	Quartz pyroxene skarn	○		○			50.6m(T)
837	7A0837	MJKA-4	51.8~52.8	1.0	Granodiorite			○			
838	7A0838	MJKA-4	52.8~53.8	1.0	Granodiorite			○			
839	7A0839	MJKA-4	53.8~54.8	1.0	Granodiorite			○			
840	7A0840	MJKA-13	0.25~1.0	0.75	Qtz px wo skarn and granodiorite			○			
841	7A0841	MJKA-13	1.0~2.0	1.0	Qtz px wo skarn			○			
842	7A0842	MJKA-13	2.0~3.0	1.0	Qtz px wo skarn			○			
843	7A0843	MJKA-13	3.0~4.0	1.0	Qtz px wo skarn			○			
844	7A0844	MJKA-13	4.0~5.0	1.0	Qtz px wo skarn			○			
845	7A0845	MJKA-13	5.0~6.0	1.0	Qtz px wo skarn			○			
846	7A0846	MJKA-13	6.0~7.0	1.0	Qtz px wo skarn			○			
847	7A0847	MJKA-13	7.0~8.2	1.2	Qtz px wo skarn			○			
848	7A0848	MJKA-13	8.2~9.1	0.9	Pyroxene skarn			○			
849	7A0849	MJKA-13	9.1~10.1	1.0	Px wo skarn			○			
850	7A0850	MJKA-13	10.1~11.1	1.0	Px wo skarn			○			

T: Thin section, P: Polished section, C: Chemical assay analysis.

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Apx. 1-2 Core Sample List (35)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
851	7A0851	MJKA-11	123.8~124.8	1.0	Limonitized granodiorite			○			
852	7A0852	MJKA-11	124.8~125.8	1.0	Limonitized granodiorite			○			
853	7A0853	MJKA-11	125.8~126.8	1.0	Limonitized granodiorite			○			
854	7A0854	MJKA-11	126.8~127.8	1.0	Limonitized granodiorite			○			
855	7A0855	MJKA-11	127.8~128.8	1.0	Limonitized granodiorite			○			
856	7A0856	MJKA-11	128.8~129.8	1.0	Limonitized granodiorite			○			
857	7A0857	MJKA-11	129.8~130.8	1.0	Limonitized granodiorite			○			
858	7A0858	MJKA-11	130.8~131.8	1.0	Limonitized granodiorite			○			
859	7A0859	MJKA-11	131.8~132.8	1.0	Limonitized granodiorite			○			
860	7A0860	MJKA-11	132.8~133.8	1.0	Limonitized granodiorite			○			
861	7A0861	MJKA-11	133.8~134.8	1.0	Limonitized granodiorite			○			
862	7A0862	MJKA-11	134.8~135.8	1.0	Limonitized granodiorite			○			
863	7A0863	MJKA-11	135.8~136.8	1.0	Limonitized granodiorite			○			
864	7A0864	MJKA-11	136.8~137.8	1.0	Limonitized granodiorite			○			
865	7A0865	MJKA-11	137.8~138.8	1.0	Limonitized granodiorite			○			
866	7A0866	MJKA-11	138.8~139.8	1.0	Limonitized granodiorite			○			
867	7A0867	MJKA-11	139.8~140.8	1.0	Limonitized granodiorite			○			
868	7A0868	MJKA-11	140.8~141.8	1.0	Limonitized granodiorite			○			
869	7A0869	MJKA-11	141.8~142.8	1.0	Limonitized granodiorite			○			
870	7A0870	MJKA-11	142.8~143.8	1.0	Limonitized granodiorite			○			
871	7A0871	MJKA-11	143.8~144.8	1.0	Limonitized granodiorite			○			
872	7A0872	MJKA-11	144.8~145.8	1.0	Limonitized granodiorite			○			
873	7A0873	MJKA-11	145.8~146.8	1.0	Limonitized granodiorite			○			
874	7A0874	MJKA-11	146.8~147.8	1.0	Limonitized granodiorite			○			
875	7A0875	MJKA-11	147.8~148.8	1.0	Limonitized granodiorite			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Ap. 1-2 Core Sample List (36)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
876	7A0876	MJKA-11	148.8~149.8	1.0	Limonitized granodiorite			○			
877	7A0877	MJKA-11	149.8~150.8	1.0	Limonitized granodiorite			○			
878	7A0878	MJKA-11	150.8~151.8	1.0	Limonitized granodiorite			○			
879	7A0879	MJKA-11	151.8~152.8	1.0	Limonitized granodiorite			○			
880	7A0880	MJKA-11	152.8~153.8	1.0	Limonitized granodiorite			○			
881	7A0881	MJKA-11	153.8~154.8	1.0	Limonitized granodiorite			○			
882	7A0882	MJKA-11	154.8~155.5	0.7	Limonitized granodiorite			○			
883	7A0883	MJKA-13	20.9~21.9	1.0	Limonite carbonate rock			○	○		21.8m(X)
884	7A0884	MJKA-4	54.8~55.8	1.0	Granodiorite			○			
885	7A0885	MJKA-4	55.8~56.8	1.0	Granodiorite including px skarn			○			
886	7A0886	MJKA-4	56.8~57.8	1.0	Granodiorite including px skarn			○			
887	7A0887	MJKA-4	57.8~58.8	1.0	Granodiorite			○			
888	7A0888	MJKA-4	58.8~59.8	1.0	Granodiorite			○			
889	7A0889	MJKA-4	59.8~60.8	1.0	Granodiorite			○			
89	7A0890	MJKA-4	60.8~61.8	1.0	Granodiorite			○			
891	7A0891	MJKA-4	61.8~62.8	1.0	Granodiorite			○			
892	7A0892	MJKA-4	62.8~63.8	1.0	Granodiorite			○			
893	7A0893	MJKA-4	63.8~64.8	1.0	Granodiorite			○			
894	7A0894	MJKA-4	64.8~65.8	1.0	Pyroxene skarn			○			
895	7A0895	MJKA-4	65.8~66.8	1.0	Granodiorite			○			
896	7A0896	MJKA-4	66.8~67.8	1.0	Granodiorite			○			
897	7A0897	MJKA-4	67.8~68.8	1.0	Granodiorite			○			
898	7A0898	MJKA-4	68.8~69.6	0.8	Granodiorite			○			
899	7A0899	MJKA-4	69.6~70.8	1.2	Pyroxene skarn			○			
900	7A0900	MJKA-4	70.8~71.4	0.6	Lamprophyre			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Ap. 1-2 Core Sample List (37)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
901	7A0901	MJKA-4	71.4~72.2	0.8	Pyroxene skarn			○			
902	7A0902	MJKA-4	72.2~73.2	1.0	Quartz pyroxene skarn			○			
903	7A0903	MJKA-4	73.2~74.2	1.0	Quartz pyroxene skarn			○			
904	7A0904	MJKA-4	74.2~75.2	1.0	Quartz pyroxene skarn			○			
905	7A0905	MJKA-4	75.2~76.2	1.0	Quartz pyroxene skarn			○			
906	7A0906	MJKA-4	76.2~77.2	1.0	Quartz pyroxene skarn			○			
907	7A0907	MJKA-4	77.2~78.2	1.0	Quartz pyroxene skarn			○			
908	7A0908	MJKA-4	78.2~79.2	1.0	Quartz pyroxene skarn			○			
909	7A0909	MJKA-4	79.2~79.9	0.3	Limonite quartz altered rock			○			
910	7A0910	MJKA-4	79.9~81.1	1.2	Chlorite quartz altered rock			○			
911	7A0911	MJKA-4	81.1~82.5	1.4	Pyroxene quartz wollastonite skarn			○			
912	7A0912	MJKA-4	82.5~83.5	1.0	Limonite quartz altered rock			○			
913	7A0913	MJKA-4	83.5~84.5	1.0	Limonite quartz altered rock			○			
914	7A0914	MJKA-4	84.5~85.5	1.0	Limonite quartz altered rock			○			
915	7A0915	MJKA-4	85.5~86.6	1.1	Limonite quartz altered rock			○			
916	7A0916	MJKA-4	86.6~87.8	1.2	Pyroxene skarn			○			
917	7A0917	MJKA-4	87.8~88.8	1.0	Limo. qtz px skarn			○			
918	7A0918	MJKA-4	88.8~89.8	1.0	Limo. qtz px skarn			○			
919	7A0919	MJKA-4	89.8~90.8	1.0	Limo. qtz px skarn			○			
920	7A0920	MJKA-4	90.8~91.8	1.0	Limo. qtz px skarn			○			
921	7A0921	MJKA-4	91.8~92.8	1.0	Limo. qtz px skarn			○			
922	7A0922	MJKA-4	92.8~93.8	1.0	Limo. qtz px skarn			○			
923	7A0923	MJKA-4	93.8~94.8	1.0	Limo. qtz px skarn			○			
924	7A0924	MJKA-4	94.8~95.8	1.0	Limo. qtz px skarn			○			
925	7A0925	MJKA-4	95.8~96.5	0.7	Limo. qtz px skarn			○			

T: Thin section, P: Polished section, C: Chemical assay analysis.

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Apx. 1-2 Core Sample List (38)

Sierial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
926	7A0926	MJKA-4	96.5~97.3	0.8	Granodiorite			○			
927	7A0927	MJKA-4	97.3~98.0	0.7	Quartz pyroxene skarn			○			
928	7A0928	MJKA-4	98.0~99.0	1.0	Granodiorite			○			
929	7A0929	MJKA-4	99.0~100.0	1.0	Granodiorite			○			
930	7A0930	MJKA-4	100.0~101.0	1.0	Granodiorite			○			
931	7A0931	MJKA-4	101.0~102.0	1.0	Granodiorite			○			
932	7A0932	MJKA-4	102.0~103.5	1.5	Granodiorite			○			
933	7A0933	MJKA-4	103.5~104.9	1.4	Pyroxene skarn			○			
934	7A0934	MJKA-4	104.9~105.9	1.0	Granodiorite			○			
935	7A0935	MJKA-4	105.9~106.9	1.0	Granodiorite			○			
936	7A0936	MJKA-4	106.9~107.9	1.0	Granodiorite			○			
937	7A0937	MJKA-4	107.9~109.0	1.1	Granodiorite			○			
938	7A0938	MJKA-4	109.0~110.0	1.0	Pyroxene skarn			○			
939	7A0939	MJKA-4	110.0~111.4	1.4	Pyroxene skarn			○			
940	7A0940	MJKA-4	111.4~112.4	1.0	Pyroxene quartz skarn			○			
941	7A0941	MJKA-4	112.4~113.4	1.0	Pyroxene quartz skarn			○			
942	7A0942	MJKA-4	113.4~114.4	1.0	Pyroxene quartz skarn			○			
943	7A0943	MJKA-4	114.4~115.4	1.0	Pyroxene quartz skarn			○			
944	7A0944	MJKA-4	115.4~116.4	1.0	Pyroxene quartz skarn			○			
945	7A0945	MJKA-4	116.4~117.4	1.0	Pyroxene quartz skarn			○			
946	7A0946	MJKA-4	117.4~118.4	1.0	Pyroxene quartz skarn			○			
947	7A0947	MJKA-4	118.4~119.4	1.0	Pyroxene quartz skarn			○			
948	7A0948	MJKA-4	119.4~120.5	1.1	Pyroxene quartz skarn			○			
949	7A0949	MJKA-4	120.5~120.9	0.4	Granodiorite			○			
950	7A0950	MJKA-4	120.9~122.0	1.1	Epidote sk with mal. asp & ep px qtz sk			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Apx. 1-2 Core Sample List (39)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
951	7A0951	MJKA-4	122.0~123.0	1.0	Epidote quartz pyroxene skarn			○			
952	7A0952	MJKA-4	123.0~124.5	1.5	Epidote quartz pyroxene skarn			○			
953	7A0953	MJKA-4	124.5~125.4	0.9	Pyroxene skarn			○			
954	7A0954	MJKA-4	125.4~126.4	1.0	Pyroxene wollastonite quartz skarn			○			
955	7A0955	MJKA-4	126.4~127.1	0.7	Pyroxene wollastonite quartz skarn			○			
956	7A0956	MJKA-4	127.1~127.6	0.5	Quartz asenopyrite ore			○			
957	7A0957	MJKA-4	127.6~128.6	1.0	Pyroxene quartz skarn			○			
958	7A0958	MJKA-4	128.6~129.6	1.0	Pyroxene quartz skarn			○			
959	7A0959	MJKA-4	129.6~130.8	1.2	Pyroxene quartz skarn			○			
960	7A0960	MJKA-4	130.8~131.8	1.0	Chlorite pyroxene skarn			○			
961	7A0961	MJKA-4	131.8~133.0	1.2	Chlorite pyroxene skarn			○			
962	7A0962	MJKA-4	133.0~134.0	1.0	Chloritized aplite			○			
963	7A0963	MJKA-4	134.0~135.3	1.3	Chloritized aplite			○			
964	7A0964	MJKA-4	135.3~136.2	0.9	Pyroxene quartz skarn			○			
965	7A0965	MJKA-4	136.2~136.7	0.5	Granodiorite			○			
966	7A0966	MJKA-4	136.7~137.5	0.8	Chloritized aplite			○			
967	7A0967	MJKA-4	137.5~138.5	1.0	Pyroxene wollastonite quartz skarn			○			
968	7A0968	MJKA-13	11.1~12.1	1.0	Pyroxene wollastonite skarn			○			
969	7A0969	MJKA-13	12.1~13.5	1.4	Pyroxene wollastonite skarn			○			
970	7A0970	MJKA-13	13.5~14.5	1.0	Granodiorite			○			
971	7A0971	MJKA-13	14.5~15.5	1.0	Granodiorite			○			
972	7A0972	MJKA-13	15.5~17.0	1.5	Granodiorite			○			
973	7A0973	MJKA-13	17.0~17.9	0.9	Px skarn & px garnet wo skarn			○			
974	7A0974	MJKA-13	17.9~18.9	1.0	Garnet pyroxene skarn			○			
975	7A0975	MJKA-13	18.9~19.9	1.0	Garnet pyroxene skarn			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Ap. 1-2 Core Sample List (40)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
976	7A0976	MJKA-13	19.9~20.9	1.0	Garnet pyroxene skarn			○			
977	7A0977	MJKA-13	21.9~22.6	0.7	Quartz cal v & skarnized rock			○			
978	7A0978	MJKA-13	22.6~23.6	1.0	Granodiorite			○			
979	7A0979	MJKA-13	23.6~24.6	1.0	Granodiorite			○			
980	7A0980	MJKA-13	24.6~25.6	1.0	Granodiorite			○			
981	7A0981	MJKA-13	25.6~26.6	1.0	Granodiorite			○			
982	7A0982	MJKA-13	26.6~27.6	1.0	Granodiorite			○			
983	7A0983	MJKA-13	27.6~28.6	1.0	Granodiorite			○			
984	7A0984	MJKA-13	28.6~29.2	0.6	Granodiorite			○			
985	7A0985	MJKA-13	29.2~30.2	1.0	Aplite			○			
986	7A0986	MJKA-13	30.2~31.2	1.0	Aplite			○			
987	7A0987	MJKA-13	31.2~32.2	1.0	Pyroxene skarn			○			
988	7A0988	MJKA-13	32.2~33.2	1.0	Pyroxene skarn			○			
989	7A0989	MJKA-13	33.2~33.8	0.6	Pyroxene skarn			○			
990	7A0990	MJKA-13	33.8~34.7	0.9	Garnet pyroxene skarn			○			
991	7A0991	MJKA-13	34.7~35.7	1.0	Pyroxene skarn			○			
992	7A0992	MJKA-13	35.7~36.7	1.0	Pyroxene skarn			○			
993	7A0993	MJKA-13	36.7~37.7	1.0	Pyroxene skarn			○			
994	7A0994	MJKA-13	37.7~38.7	1.0	Pyroxene skarn			○			
995	7A0995	MJKA-13	38.7~39.4	0.7	Pyroxene skarn			○			
996	7A0996	MJKA-13	39.4~40.4	1.0	Pyroxene skarnized granodiorite			○			
997	7A0997	MJKA-13	40.4~41.8	1.4	Granodiorite			○			
998	7A0998	MJKA-13	41.8~42.9	1.1	Pyroxene skarnized granodiorite			○			
999	7A0999	MJKA-13	42.9~43.9	1.0	Pyroxene skarn with malachite imp.			○			
1000	7A1000	MJKA-13	43.9~44.9	1.0	Pyroxene skarn			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion



Apx. 1-2 Core Sample List (41)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
1001	7A1001	MJKA-13	44.9~46.1	1.2	Pyroxene skarn			○			
1002	7A1002	MJKA-13	46.1~47.0	1.0	Granodiorite			○			
1003	7A1003	MJKA-13	47.0~48.0	1.0	Limonitized altered rock & px skarn			○			
1004	7A1004	MJKA-13	48.0~48.8	0.8	Limonitized altered rock			○			
1005	7A1005	MJKA-13	48.8~49.8	1.0	Limonitized granodiorite			○			
1006	7A1006	MJKA-13	49.8~50.8	1.0	Limonitized granodiorite			○			
1007	7A1007	MJKA-13	50.8~51.6	1.0	Limonitized granodiorite			○			
1009	7A1008	MJKA-13	51.6~52.6	1.0	Granodiorite			○			
1009	7A1009	MJKA-13	52.6~53.6	1.0	Granodiorite			○			
1010	7A1010	MJKA-13	53.6~54.6	1.0	Granodiorite			○			
1011	7A1011	MJKA-13	54.6~55.6	1.0	Granodiorite			○			
1012	7A1012	MJKA-13	55.6~56.6	1.0	Granodiorite			○			
1013	7A1013	MJKA-13	56.6~57.6	1.0	Granodiorite			○			
1014	7A1014	MJKA-13	57.6~58.6	1.0	Granodiorite			○			
1015	7A1015	MJKA-13	58.6~59.6	1.0	Granodiorite			○			
1016	7A1016	MJKA-13	59.6~60.6	1.0	Granodiorite			○			
1017	7A1017	MJKA-13	60.6~61.6	1.0	Granodiorite			○			
1018	7A1018	MJKA-13	61.6~62.6	1.0	Granodiorite			○			
1019	7A1019	MJKA-13	62.6~63.6	1.0	Granodiorite			○			
1020	7A1020	MJKA-13	63.6~64.6	1.0	Granodiorite			○			
1021	7A1021	MJKA-13	64.6~65.6	1.0	Granodiorite			○			
1022	7A1022	MJKA-13	65.6~66.6	1.0	Granodiorite			○			
1023	7A1023	MJKA-13	66.6~67.6	1.0	Granodiorite			○			
1024	7A1024	MJKA-13	67.6~68.6	1.0	Granodiorite			○			
1025	7A1025	MJKA-13	68.6~69.6	1.0	Granodiorite			○			

T: Thin section, P: Polished section, C: Chemical assay analysis.

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Apx. 1-2 Core Sample List (42)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
1026	7A1026	MJKA-13	69.6~70.4	0.8	Granodiorite			○			
1027	7A1027	MJKA-13	70.4~71.1	0.7	Lamprophyre			○			
1028	7A1028	MJKA-13	71.1~72.1	1.0	Granodiorite			○			
1029	7A1029	MJKA-13	72.1~73.1	1.0	Granodiorite			○			
1030	7A1030	MJKA-13	73.1~74.1	1.0	Granodiorite			○			
1031	7A1031	MJKA-13	74.1~75.1	1.0	Granodiorite			○			
1032	7A1032	MJKA-13	75.1~76.1	1.0	Granodiorite			○			
1033	7A1033	MJKA-13	76.1~77.1	1.0	Granodiorite			○			
1034	7A1034	MJKA-13	77.1~78.1	1.0	Granodiorite			○			
1035	7A1035	MJKA-13	78.1~79.1	1.0	Granodiorite			○			
1036	7A1036	MJKA-13	79.1~80.1	1.0	Granodiorite			○			
1037	7A1037	MJKA-13	80.1~81.1	1.0	Granodiorite			○			
1038	7A1038	MJKA-13	81.1~82.1	1.0	Granodiorite			○			
1039	7A1039	MJKA-13	82.1~83.1	1.0	Granodiorite			○			
1040	7A1040	MJKA-13	83.1~84.1	1.0	Granodiorite			○			
1041	7A1041	MJKA-13	84.1~84.5	0.4	Lamprophyre			○			
1042	7A1042	MJKA-13	84.5~85.5	1.0	Granodiorite			○			
1043	7A1043	MJKA-13	85.5~86.5	1.0	Granodiorite			○			
1044	7A1044	MJKA-13	86.5~87.5	1.0	Granodiorite			○			
1045	7A1045	MJKA-13	87.5~88.5	1.0	Granodiorite			○			
1046	7A1046	MJKA-13	88.5~89.2	0.7	Granodiorite			○			
1047	7A1047	MJKA-13	89.2~90.2	1.0	Limonitized altered rock			○			
1048	7A1048	MJKA-13	90.2~91.2	1.0	Limonitized altered rock			○			
1049	7A1049	MJKA-13	91.2~92.2	1.0	Limonitized altered rock			○			
1050	7A1050	MJKA-13	92.2~93.2	1.0	Limonitized altered rock			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Apx. 1-2 Core Sample List (43)

Sierial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
1051	7A1051	MJKA-13	93.2~94.2	1.0	Limonitized altered rock			○			
1052	7A1052	MJKA-13	94.2~95.2	1.0	Limonitized altered rock			○			
1053	7A1053	MJKA-13	95.2~96.2	1.0	Limonitized altered rock			○			
1054	7A1054	MJKA-13	96.2~97.2	1.0	Limonitized altered rock			○			
1055	7A1055	MJKA-13	97.2~98.2	1.0	Limonitized altered rock			○			
1056	7A1056	MJKA-13	98.2~98.8	0.6	Limonitized altered rock			○			
1057	7A1057	MJKA-13	98.8~99.2	0.4	Aplite			○			
1058	7A1058	MJKA-13	99.2~100.2	1.0	Limonitized granodiorite			○			
1059	7A1059	MJKA-13	100.2~101.2	1.0	Limonitized granodiorite			○			
1060	7A1060	MJKA-13	101.2~102.6	1.4	Limonitized granodiorite			○			
1061	7A1061	MJKA-13	102.6~104.0	1.4	Chloritized aplite			○			
1062	7A1062	MJKA-13	104.0~105.0	1.0	Limonitized granodiorite			○			
1063	7A1063	MJKA-13	105.0~106.0	1.0	Limonitized granodiorite			○			
1064	7A1064	MJKA-13	106.0~107.0	1.0	Limonitized granodiorite			○			
1065	7A1065	MJKA-13	107.0~108.4	0.5	Lamprophyre			○			
1066	7A1066	MJKA-13	108.4~109.4	1.0	Limonitized aplite			○			
1067	7A1067	MJKA-13	109.4~110.4	1.0	Limonitized aplite			○			
1068	7A1068	MJKA-13	110.4~112.0	1.6	Limonitized aplite			○			
1069	7A1069	MJKA-13	112.0~113.0	1.0	Limonitized granodiorite			○			
1070	7A1070	MJKA-13	113.0~114.0	1.0	Limonitized granodiorite			○			
1071	7A1071	MJKA-13	114.0~115.0	1.0	Limonitized granodiorite			○			
1072	7A1072	MJKA-13	115.0~116.0	1.0	Limonitized granodiorite			○			
1073	7A1073	MJKA-13	116.0~117.0	1.0	Limonitized granodiorite			○			
1074	7A1074	MJKA-13	117.0~117.7	0.7	Limonitized granodiorite			○			
1075	7A1075	MJKA-13	117.7~118.7	1.0	Limonitized lamprophyre			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Apx. 1-2 Core Sample List (44)

Sierial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
1076	7A1076	MJKA-13	118.7~119.7	1.0	Limonitized lamprophyre			○			
1077	7A1077	MJKA-13	119.7~120.7	1.0	Limonitized lamprophyre			○			
1078	7A1078	MJKA-13	120.7~121.7	1.0	Limonitized lamprophyre			○			
1079	7A1079	MJKA-13	121.7~122.7	1.0	Limonitized lamprophyre			○			
1080	7A1080	MJKA-13	122.7~123.9	1.2	Limonitized lamprophyre			○			
1081	7A1081	MJKA-13	123.9~124.8	0.9	Limonitized granodiorite			○			
1082	7A1082	MJKA-13	124.8~125.8	1.0	Limonitized aplite			○			
1083	7A1083	MJKA-13	125.8~126.8	1.0	Limonitized aplite			○			
1084	7A1084	MJKA-13	126.8~127.8	1.0	Limonitized aplite			○			
1085	7A1085	MJKA-13	127.8~128.8	1.0	Limonitized aplite			○			
1086	7A1086	MJKA-13	128.8~129.8	1.0	Limonitized aplite			○			
1087	7A1087	MJKA-13	129.8~130.8	1.0	Limonitized aplite			○			
1088	7A1088	MJKA-13	130.8~131.8	1.0	Limonitized aplite			○			
1089	7A1089	MJKA-13	131.8~132.8	1.0	Limonitized aplite			○			
1090	7A1090	MJKA-13	132.8~134.0	1.2	Limonitized aplite			○			
1091	7A1091	MJKA-13	134.0~134.7	0.7	Lamprophyre			○			
1092	7A1092	MJKA-13	134.7~135.7	1.0	Limonitized aplite			○			
1093	7A1093	MJKA-13	135.7~136.7	1.0	Limonitized aplite			○			
1094	7A1094	MJKA-13	136.7~137.7	1.0	Limonitized aplite			○			
1095	7A1095	MJKA-13	137.7~138.7	1.0	Limonitized aplite			○			
1096	7A1096	MJKA-13	138.7~139.7	1.0	Limonitized aplite			○			
1097	7A1097	MJKA-13	139.7~140.7	1.0	Limonitized aplite			○			
1098	7A1098	MJKA-13	140.7~141.7	1.0	Limonitized aplite			○			
1099	7A1099	MJKA-13	141.7~142.7	1.0	Limonitized aplite			○			
1100	7A1100	MJKA-13	142.7~143.7	1.0	Limonitized aplite			○			

T: Thin section, P: Polished section, C: Chemical assay analysis.

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Apx. 1-2 Core Sample List (45)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
1101	7A1101	MJKA-13	143.7~144.4	0.7	Limonitized granodiorite			○			
1102	7A1102	MJKA-4	138.5~139.5	1.0	Pyroxene wollastonite quartz skarn			○			
1103	7A1103	MJKA-4	139.5~140.5	1.0	Pyroxene wollastonite quartz skarn			○			
1104	7A1104	MJKA-4	140.5~141.5	1.0	Pyroxene wollastonite quartz skarn			○			
1105	7A1105	MJKA-4	141.5~142.5	1.0	Pyroxene wollastonite quartz skarn			○			
1106	7A1106	MJKA-4	142.5~143.7	1.2	Pyroxene wollastonite quartz skarn			○			
1107	7A1107	MJKA-4	143.7~144.7	1.0	Limonitized granodiorite			○			
1108	7A1108	MJKA-4	144.7~145.7	1.0	Chloritized granodiorite			○			
1109	7A1109	MJKA-4	145.7~146.7	1.0	Chloritized granodiorite			○			
1110	7A1110	MJKA-4	146.7~147.7	1.0	Chloritized granodiorite			○			
1111	7A1111	MJKA-4	147.7~148.7	1.0	Chloritized granodiorite			○			
1112	7A1112	MJKA-4	148.7~149.7	1.0	Chloritized granodiorite			○			
1113	7A1113	MJKA-4	149.7~150.7	1.0	Chloritized granodiorite			○			
1114	7A1114	MJKA-4	150.7~151.9	1.0	Aplite			○			
1115	7A1115	MJKA-4	151.9~152.7	0.8	Chloritized granodiorite			○			
1116	7A1116	MJKA-4	152.7~153.7	1.0	Silicified pyroxene wollastonite skarn			○			
1117	7A1117	MJKA-4	153.7~155.0	1.3	Silicified pyroxene wollastonite skarn			○			
1118	7A1118	MJKA-4	155.0~155.5	0.5	Limo. silicified px wo skarn			○			
1119	7A1119	MJKA-4	155.5~156.0	0.5	Chloritized lamprophyre			○			
1120	7A1120	MJKA-4	156.0~157.0	1.0	Silicified pyroxene wollastonite skarn			○			
1121	7A1121	MJKA-4	157.0~158.0	1.0	Silicified pyroxene wollastonite skarn			○			
1122	7A1122	MJKA-4	158.0~159.0	1.0	Silicified pyroxene wollastonite skarn			○			
1123	7A1123	MJKA-4	159.0~160.0	1.0	Silicified pyroxene wollastonite skarn			○			
1124	7A1124	MJKA-4	160.0~161.0	1.0	Silicified pyroxene wollastonite skarn			○			
1125	7A1125	MJKA-4	161.0~162.3	1.3	Silicified pyroxene wollastonite skarn			○			

T: Thin section, P: Polished section, C: Chemical assay analysis.

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Ap. 1-2 Core Sample List (46)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
1126	7A1126	MJKA-13	144.8~145.8	1.0	Limonitized granodiorite			○			
1127	7A1127	MJKA-13	145.8~146.8	1.0	Limonitized granodiorite			○			
1128	7A1128	MJKA-13	146.8~147.8	1.0	Limonitized granodiorite			○			
1129	7A1129	MJKA-13	147.8~148.8	1.0	Limonitized granodiorite			○			
1130	7A1130	MJKA-13	148.8~149.8	1.0	Limonitized granodiorite			○			
1131	7A1131	MJKA-13	149.8~150.8	1.0	Limonitized granodiorite			○			
1132	7A1132	MJKA-13	150.8~151.8	1.0	Limonitized granodiorite			○			
1133	7A1133	MJKA-13	151.8~152.8	1.0	Limonitized granodiorite			○			
1134	7A1134	MJKA-13	152.8~153.8	1.0	Limonitized granodiorite			○			
1135	7A1135	MJKA-13	153.8~154.8	1.0	Limonitized granodiorite			○			
1136	7A1136	MJKA-13	154.8~155.8	1.0	Limonitized granodiorite			○			
1137	7A1137	MJKA-13	155.8~156.8	1.0	Limonitized granodiorite			○			
1138	7A1138	MJKA-13	156.8~157.8	1.0	Limonitized granodiorite			○			
1139	7A1139	MJKA-13	157.8~158.8	1.0	Limonitized granodiorite			○			
1140	7A1140	MJKA-13	158.8~159.8	1.0	Limonitized granodiorite			○			
1141	7A1141	MJKA-13	159.8~160.8	1.0	Limonitized granodiorite			○			
1142	7A1142	MJKA-13	160.8~161.8	1.0	Limonitized granodiorite			○			
1143	7A1143	MJKA-13	161.8~162.8	1.0	Limonitized granodiorite			○			
1144	7A1144	MJKA-13	162.8~163.8	1.0	Limonitized granodiorite			○			
1145	7A1145	MJKA-13	163.8~164.8	1.0	Limonitized granodiorite			○			
1146	7A1146	MJKA-13	164.8~165.8	1.0	Limonitized granodiorite			○			
1147	7A1147	MJKA-13	165.8~166.8	1.0	Limonitized granodiorite			○			
1148	7A1148	MJKA-13	166.8~168.3	1.5	Limonitized granodiorite			○			
1149	7A1149	MJKA-13	168.3~169.2	0.9	Lamprophyre			○			
1150	7A1150	MJKA-13	169.2~170.0	0.8	Limonitized aplite			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Apx. 1-2 Core Sample List (47)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
1151	7A1151	MJKA-13	170.0~170.6	0.6	Biotitized rock with px network			○			
1152	7A1152	MJKA-13	170.6~171.4	0.8	Limonitized aplite			○			
1153	7A1153	MJKA-13	171.4~172.1	0.7	Chloritized granodiorite			○			
1154	7A1154	MJKA-13	172.1~173.1	1.0	Biotitized rock with px network			○			
1155	7A1155	MJKA-13	173.1~174.1	1.0	Biotitized rock with px network			○			
1156	7A1156	MJKA-13	174.1~175.1	1.0	Biotitized rock with px network			○			
1157	7A1157	MJKA-11	167.5~168.5	1.0	Granodiorite			○			
1158	7A1158	MJKA-11	168.5~169.5	1.0	Granodiorite			○			
1159	7A1159	MJKA-11	169.5~170.5	1.0	Granodiorite			○			
1160	7A1160	MJKA-11	170.5~171.5	1.0	Granodiorite			○			
1161	7A1161	MJKA-11	171.5~172.5	1.0	Granodiorite			○			
1162	7A1162	MJKA-11	172.5~173.5	1.0	Aplite			○			
1163	7A1163	MJKA-11	173.5~174.5	1.0	Aplite			○			
1164	7A1164	MJKA-11	174.5~175.5	1.0	Aplite			○			
1165	7A1165	MJKA-11	175.5~176.5	1.0	Aplite			○			
1166	7A1166	MJKA-11	176.5~177.5	1.0	Aplite			○			
1167	7A1167	MJKA-11	177.5~178.5	1.0	Aplite			○			
1168	7A1168	MJKA-11	178.5~179.5	1.0	Aplite			○			
1169	7A1169	MJKA-11	179.5~180.5	1.0	Aplite			○			
1170	7A1170	MJKA-11	180.5~181.5	1.0	Aplite			○			
1171	7A1171	MJKA-11	181.5~182.5	1.0	Granodiorite			○			
1172	7A1172	MJKA-11	182.5~183.5	1.0	Granodiorite			○			
1173	7A1173	MJKA-11	183.5~184.5	1.0	Granodiorite			○			
1174	7A1174	MJKA-11	184.5~185.5	1.0	Granodiorite			○			
1175	7A1175	MJKA-11	185.5~186.6	1.1	Granodiorite			○			

T: Thin section, P: Polished section, C: Chemical assay analysis,

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion

Apx. 1-2 Core Sample List (48)

Serial No.	Sample No.	Locality			Rock name	Laboratory work					Remarks
		Drill hole No.	Depth (m)	Length (m)		T	P	C	X	F	
1176	7A1176	MJKA-11	186.6~187.4	0.8	Aplite			○			
1177	7A1177	MJKA-11	187.4~188.4	1.0	Granodiorite			○			
1178	7A1178	MJKA-11	188.4~189.4	1.0	Granodiorite			○			
1179	7A1179	MJKA-11	189.4~190.4	1.0	Granodiorite			○			
1180	7A1180	MJKA-11	190.4~191.4	1.0	Granodiorite			○			
1181	7A1181	MJKA-11	191.4~192.4	1.0	Granodiorite			○			

T: Thin section, P: Polished section, C: Chemical assay analysis.

X: X-ray diffraction analysis, F: Homogenization temperature of fluid inclusion







## Appendix 1-3

Result of Microscopic Observations of Thin Sections



Apx. 1-3 Result of Microscopic Observation of Thin Sections (1)

No.	Sample No.	Locality		Minerals Field name	Primary minerals								Secondary minerals																						
		District	Place		Quartz	K-feldspar	Plagioclase	Biotite	Hornblende	Clinopyroxene	Olivine	Opaque mineral	Sphene	Zircon	Apatite	Quartz	K-feldspar	Plagioclase	Sericite	Chlorite	Epidote	Calcite	Biotite	Tremolite-actinolite	Hornblende	Clinopyroxene	Wollastonite		Garnet	Prehnite	Sphene	Apatite	Serpentine	Talc	Opaque mineral
1	7M0002	Altyn-Jylga	Trench K-3A	Clinopyroxene skarn																		○	•	Δ	•	⊗									With quartz-calcite vein
2	7M0005	Altyn-Jylga	Trench K-3	Lamprophyre			△	○	○																										With calcite vein, slightly skarnized
3	7M0006	Altyn-Jylga	Trench K-3	Silicified Cpx skarn																		○													Granoblastic, heterogeneous
4	7M0008	Altyn-Jylga	Trench K-1A	Clinopyroxene-garnet skarn																					△		○	△	⊗						
5	7M0009	Altyn-Jylga	Trench K-1A	Crinopyroxene-garnet skarn																															With quartz-calcite vein
6	7M0011	Altyn-Jylga	Trench K-1A	Clinopyroxene-garnet skarn																						△	○	⊗							In contact with Cox-Ho gabbro
7	7M0012	Altyn-Jylga	Near Trench K-1A	Wollastonite skarn																					△	⊗								With calcite and zircon(?) veins	
8	7M0013	Altyn-Jylga	Near Trench K-1A	Skarnized gabbro			○		○																	○								With prehnite vein	
9	7M0014	Altyn-Jylga	Western part	Serpentinized Cpx skarn															△						△					⊗					
10	7N0001	Altyn-Jylga	Trench K-5A	Clinopyroxene skarn																		△													
11	7N0005	Altyn-Jylga	Trench K-5A	Lamprophyre			○	○	△	○																									
12	7N0014	Altyn-Jylga	Trench K-18A	Skarnized gabbro			⊗																												Including clinopyroxene skarn
13	7N0040	Altyn-Jylga	Adit	Lamprophyre			○	△	○																										
14	7N0072	Altyn-Jylga	Transporting road	Lamprophyre			○	○	○	△																									Gt xenocrysts and Pl phenocrysts
15	7N0073	Altyn-Jylga	Transporting road	Olivine hornblende				△	△	△	△	○																							
16	7N0076	Altyn-Jylga	Adit	Clinopyroxene-garnet skarn																															
17	7T0002	Altyn-Jylga	Trench K-25A	Lamprophyre			△	○	△	○																									With prehnite vein, Pl phenocrysts
18	7T0005	Altyn-Jylga	Trench K-29A	Lamprophyre			○	○																											Pl phenocrysts rich, Weakly skarnized
19	7T0008	Altyn-Jylga	Entrance of adit	Granodiorite			△	△	○	△	△																								
20	7T0009	Altyn-Jylga	Trench K-91	Skarnized gabbro				△		○																									

⊗ : Abundant ○ : Common △ : Poor • : Rare

Аpx. 1-3 Result of Microscopic Observation of Thin Sections (2)

No.	Sample No.	Locality		Minerals	Primary minerals											Secondary minerals																					
					Quartz	K-feldspar	Plagioclase	Biotite	Hornblende	Clinopyroxene	Olivine	Opaque mineral	Sphene	Zircon	Apatite	Quartz	K-feldspar	Plagioclase	Sericite	Chlorite	Epidote	Calcite	Biotite	Tremolite-actinolite	Hornblende	Clinopyroxene	Wollastonite	Garnet		Prehnite	Sphene	Apatite	Serpentine	Talc	Opaque mineral	Malachite	Goethite
21	7T0010	Altyn-Jylga	Trench K-91	Clinopyroxene skarn																			•											•			
22	7T0011	Altyn-Jylga	Upper part of adit	Silicified Cpx skarn																			•														Heterogenous
23	7T0017	Altyn-Jylga	Trench on south ridge	Olivine pyroxenite			Δ	•	Δ	○	○																										Spinel bearing
24	7M0028	Karakazyk	Karakazyk No.2	Clinopyroxene skarn															○				○													With marble	
25	7M0029	Karakazyk	Karakazyk No.1	Clinopyroxene-garnet skarn															Δ				○		○											Garnet: gnostropio	
26	7M0030	Karakazyk	Karakazyk No.1	Granodiorite	○	Δ	○	○	○	Δ																										Δ	•
27	7N0077	Karakazyk	Mouth of adit	Clinopyroxene skarn																																	
28	7N0078	Karakazyk	Mouth of adit	Granite	○	○	○																														Hematite rich
29	7N0079	Karakazyk	Mouth of adit	Meta-andesite			○																Δ		○												Preserving flow structure
30	7T0036	Karakazyk	Levoberedzhny	Granodiorite	○	Δ	○	○	○																												
31	7T0037	Karakazyk	Left bank of Karakazyk	Schistose meta-andesite			○																Δ		Δ												
32	7T0039	Karakazyk	Left bank of Karakazyk	Meta-andesite			Δ			Δ													•	Δ													
33	7T0041	Karakazyk	Left bank of Karakazyk	Schistose meta-andesite			Δ			Δ													•	•													

○ : Abundant   ○ : Common   Δ : Poor   • : Rare

A-58

Ap. 1-3 Result of Microscopic Observation of Thin Sections (3)

No.	Sample No	Locality		Minerals Field name	Primary minerals										Secondary minerals										Remarks								
		Drill Hole No.	Depth		Quartz	K-feldspar	Plagioclase	Biotite	Hornblende	Clinopyroxene	Olivine	Opaque mineral	Sphene	Garnet	Zircon	Apatite	Quartz	K-feldspar	Plagioclase	Sericite	Chlorite	Epidote	Calcite	Biotite		Actinolite	Hornblende	Clinopyroxene	Wollastonite	Garnet	Prehnite	Sphene	Opaque mineral
1	7A0387	MJKA-1	43.6	Brecciated granodiorite	⊙	•	⊙	(-)													Δ												With calcite and calcite veins
2	7A0586	MJKA-2	129.1	Granodiorite porphyry	○	Δ	○	•	Δ		•	•	•					•	•	•	•											Recrystallized Qz vein	
3	7A0836	MJKA-4	50.6	Clinopyroxene skarn																												Homogeneous	
4	7A0368	MJKA-6	37.8	Silicified Woll-Cpx skarn																													
5	7A0493	MJKA-6	95.6	Wollastonite-cpx skarn																													
6	7A0562	MJKA-7	18.6	Altered granodiorite porphyry	○	•	⊙	⊙	Δ	Δ	Δ	Δ							Δ	•	Δ												With calcite vein, Hydrothermally altered
7	7A0683	MJKA-7	176.8	Altered granodiorite porphyry	○	Δ	⊙	⊙	Δ	Δ	Δ								Δ	•	Δ												With calcite-quartz vein, Hydrothermally altered
8	7A0787	MJKA-7	200.6	Altered lamprophyre				○	○	Δ	○								○	Δ	○												With cal v. Qz-xenocryst-bz, Hydrothermally altered
9	7A0055	MJKA-8	19.8	Skarnized lamprophyre					○																								With prehnite vein
10	7A0057	MJKA-8	21.8	Clinopyroxene skarn																													With tourmaline vein
11	7A0061	MJKA-8	25.0	Wollastonite skarn																													With calcite-prehnite vein
12	7A0066	MJKA-8	29.8	Granodiorite porphyry	○	Δ	○	Δ	Δ	•																							With sericite-calcite vein
13	7A0081	MJKA-8	44.4	Altered skarnized andesite	Δ		○																										Calcite, Ouzenocryst(?), Hydrothermally altered
14	7A0228	MJKA-9	21.0	Silicified Cpx skarn																													With banded structure
15	7A0279	MJKA-9	84.6	Monzodiorite		Δ	⊙	Δ	•	Δ																							Qz vein
16	7A0385	MJKA-9	173.8	Granodiorite porphyry	○	Δ	⊙	Δ	Δ	•																							
17	7A0020	MJKA-10	23.3	Clinopyroxene skarn																													
18	7A0142	MJKA-10	41.7	Cpx-wollastonite skarn																													
19	7A0332	MJKA-11	55.0	Lamprophyre			○	Δ	Δ	Δ																							Qz and Pl xenocryst bearing
20	7A0733	MJKA-11	78.6	Clinopyroxene skarn																													With calcite vein

⊙ : Abundant ○ : Common Δ : Poor • : Rare ( ) : Pseudomorph





# Appendix 1-4

## Microscopic Photographs of Thin Sections

### Abbreviations

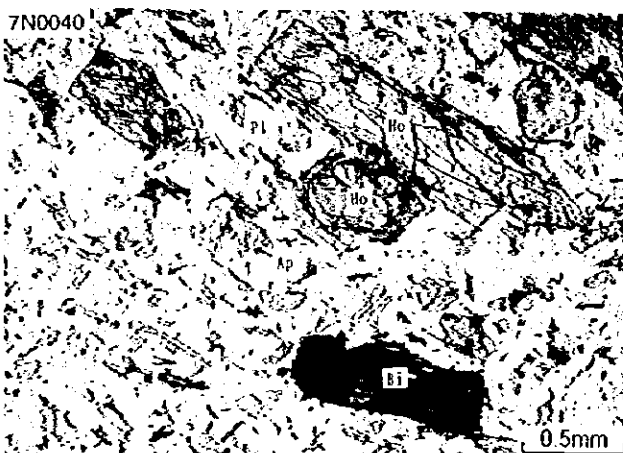
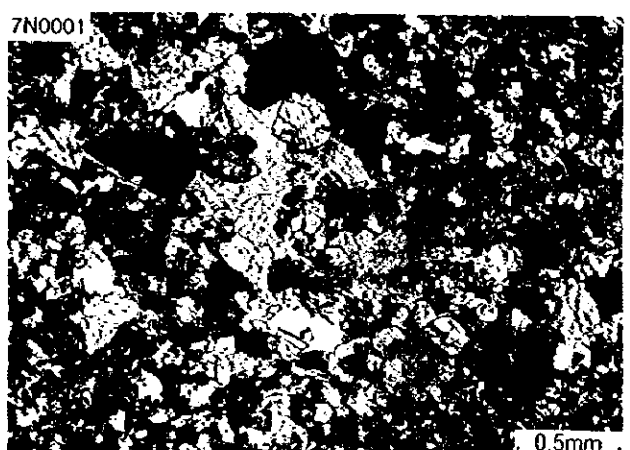
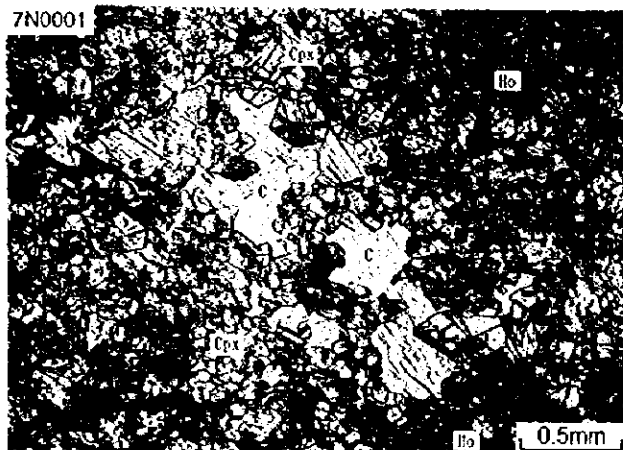
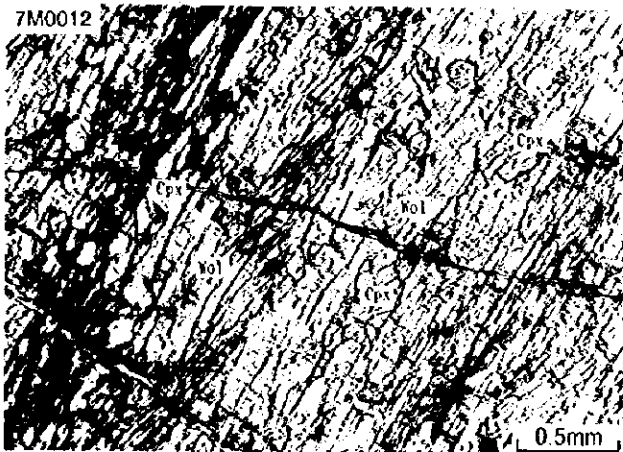
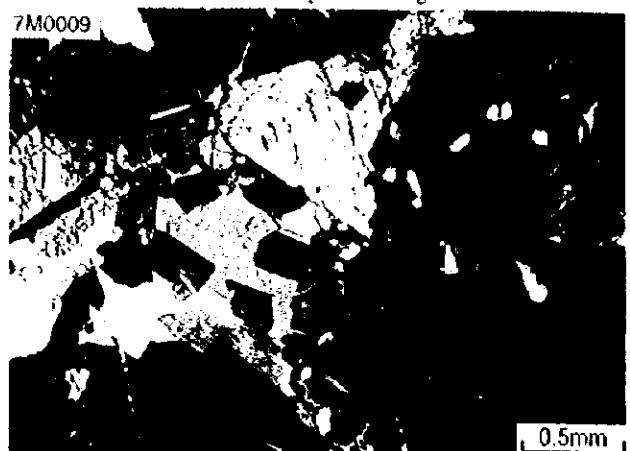
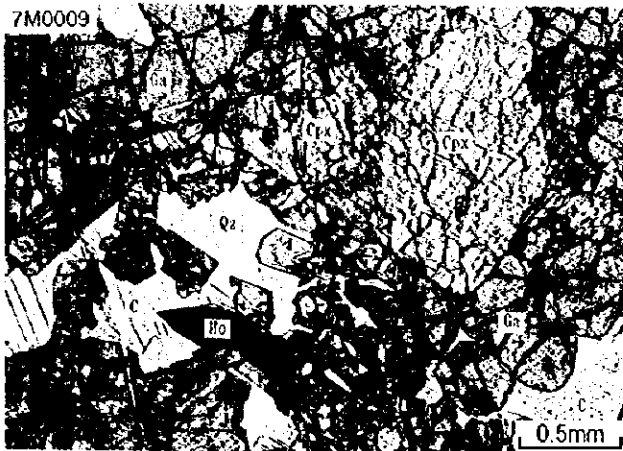
Bi	: Biotite
C	: Calcite
Cal	: Cataclasite
Cpx	: Clinopyroxene
Ga	: Garnet
Ho	: Hornblende
Kf	: K-feldspar
Pl	: Plagioclase
Prh	: Prehnite
Qz	: Quartz
Se	: Sericite
Sph	: Sphene
Tr	: Tremolite
Wol	: Wollastonite



Apx. 1-4 Photomicrographs of Thin Sections (I)

Plane polarized light

Crossed polarized light

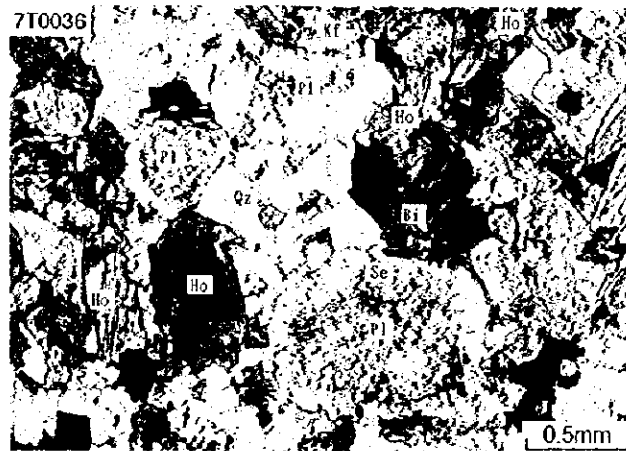
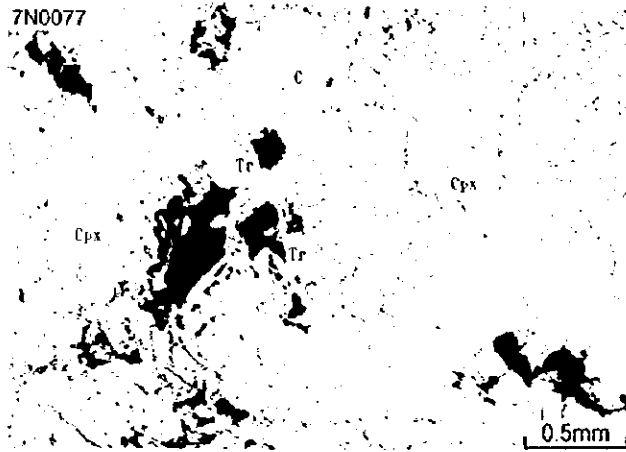
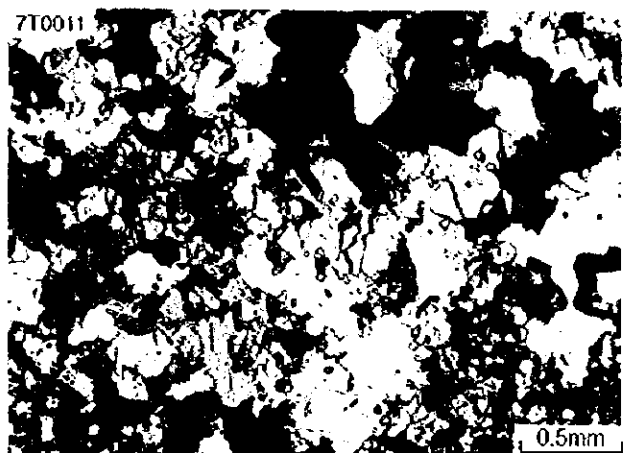
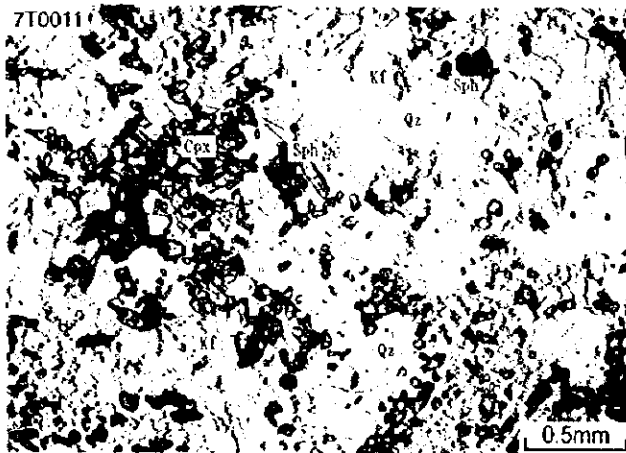
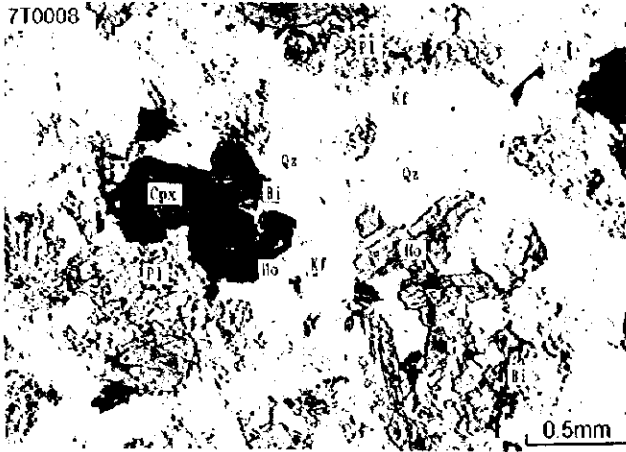




Ap. 1-4 Photomicrographs of Thin Sections (2)

Plane polarized light

Crossed polarized light

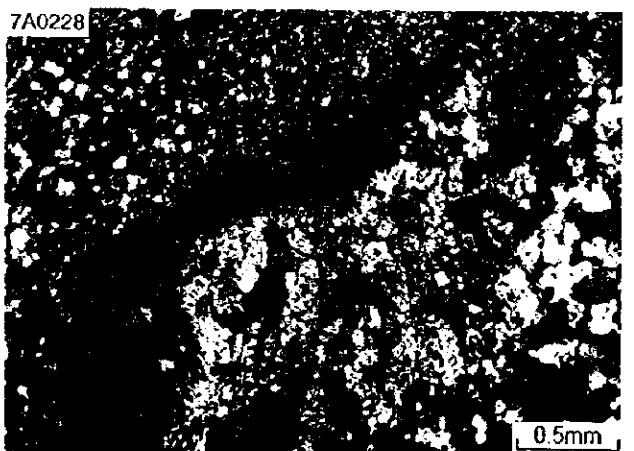
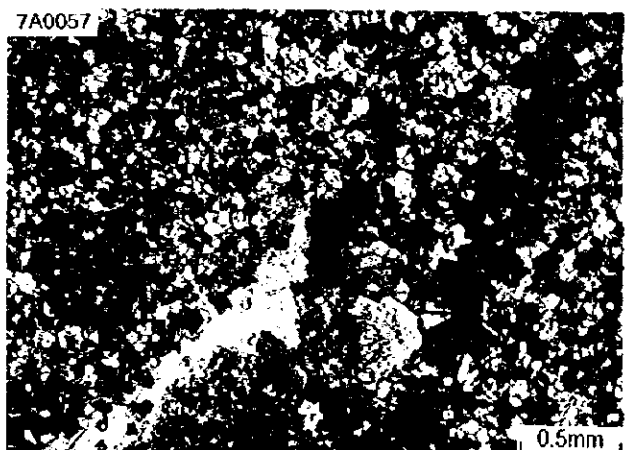
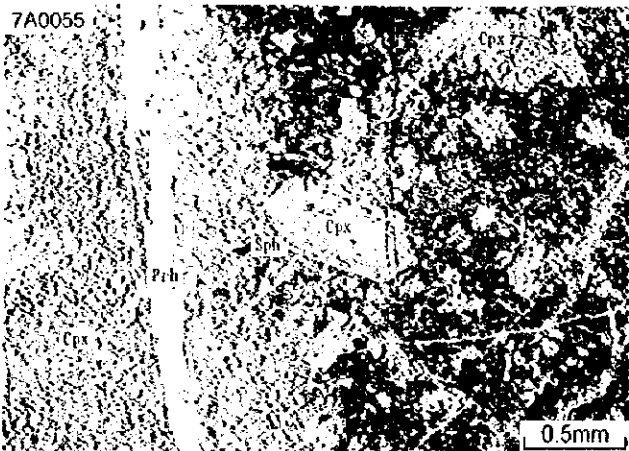
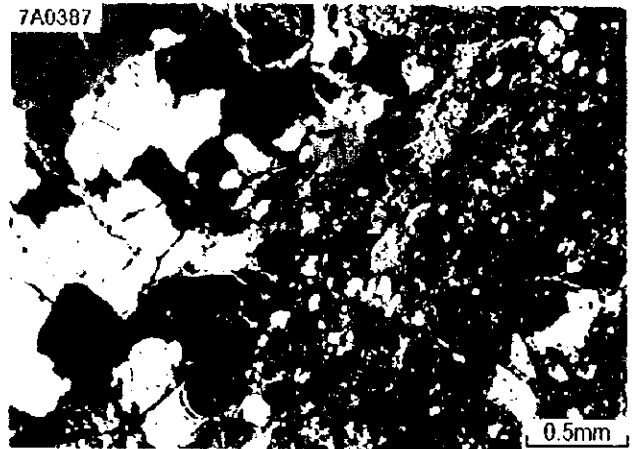
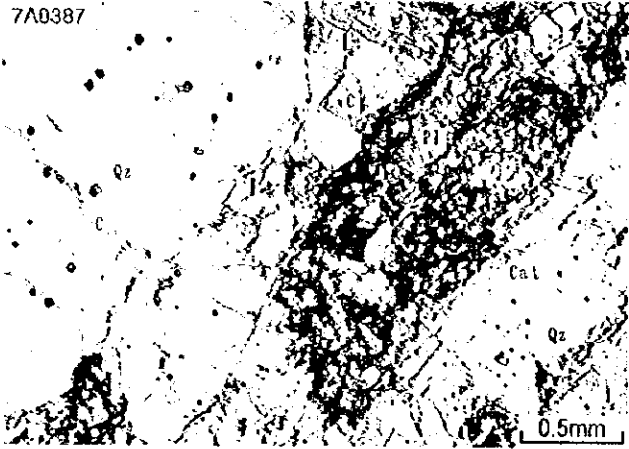




Apx. 1-4 Photomicrographs of Thin Sections (3)

Plane polarized light

Crossed polarized light







## Appendix 1-5

Result of Microscopic Observations of Polished Sections



Apx. 1-5 Result of Microscopic Observation of Polished Sections (1)

No.	Sample No.	Locality		Ore Minerals	Magnetite	Pyrrhotite	Pyrite	Marcasite	Arsenopyrite	Chalcopyrite	Bornite	Tetrahedrite	Sphalerite	Galena	Bismuthinite	Wittichenite	Electrum	Graphite	Chalcocite	Covellite	Goethite	Lepidochrochite	Malachite	Rutile
		District	Place																					
1	7M0002	Altyn-Jylga	Trench K-3A	Pyroxene skarn			△			○										.	.	.		
2	7M0008	Altyn-Jylga	Trench K-1A	Pyroxene skarn						◎	○		△	.			.			.	.			
3	7M0020	Altyn-Jylga	Mouth of MUKA-8	Malachite-limonite vein		.	○			○										.	.	○	○	
4	7N0010	Altyn-Jylga	Trench K-17A	Silicified skarn			.			.										.	.	.		
5	7N0074	Altyn-Jylga	Adit	Pyroxene skarn with py and cp	.	.	△			○		.			.	.								
6	7T0003	Altyn-Jylga	Trench K-25A	Silicified marble			.														.	○	○	
7	7T0007	Altyn-Jylga	Trench K-38A	Pyroxene skarn			.											△						
8	7T0019	Altyn-Jylga	West. Trench K-23	Pyroxene skarn with green copper		.				◎	○	.								.	.		○	
9	7T0021	Altyn-Jylga	West. Trench K-23	Pyroxene skarn with green copper		.	.			○												△	△	· · ?
10	7T0029	Altyn-Jylga	South. Trench K-11	Skarnized lamprophyre						◎	○						.			.	.	○	○	
11	7M0028	Karakazyk	Karakazyk No.2	Pyroxene-garnet skarn						◎			.								.			
12	7M0029	Karakazyk	Karakazyk No.1	Garnet pyroxene skarn			○	.	.	◎												○	○	
13	7M0033	Karakazyk	Karakazyk No.3	Pyroxene skarn						◎						.	.							△
14	7M0039	Karakazyk	Western area	Garnet-pyroxene skarn						◎		.									.			
15	7N0077	Karakazyk	Mouth of adit	Skarnized rock		.				◎	○									.	.	○	○	
16	7N0078	Karakazyk	Mouth of adit	Aplite						.	◎									○	.			.
17	7N0082	Karakazyk	Mouth of adit	Skarnized rock			△			◎	○	.	.							.	.			
18	7N0084	Karakazyk	Mouth of adit	Skarnized rock			.			◎	△									△	△	.	.	
19	7T0044	Karakazyk	Left bank of karakazyk	Pyroxene skarn with green copper, limonite			.														.	.	.	
20	7T0045	Karakazyk	Left bank of karakazyk	Pyroxene skarn with py and cp						◎											.	.	.	

◎ : Abundant ○ : Common △ : Poor · : Rare

Ap. 1-5 Result of Microscopic Observation of Polished Sections (2)

No.	Sample No.	Locality		Ore Minerals	Magnetite	Pyrrhotite	Pyrite	Marcasite	Arsenopyrite	Chalcopyrite	Bornite	Tetrahedrite	Sphalerite	Galena	Bismuthinite	Wittichenite	Electrum	Graphite	Chalcocite	Covellite	Goethite	Lepidochroite	Malachite	Rutile
		Drill Hole No.	Depth																					
1	7A0403	MJKA-1	73.40	Arsenopyrite concentrates part in skarn	.	.	.	.	⊙				.	.	.	.								
2	7A0708	MJKA-2	243.20	Arsenopyrite vein					⊙															
3	7A0834	MJKA-4	49.00	Brecciated pyrite-quartz ore			⊙	○																
4	7A0491	MJKA-6	94.30	Pyrite impregnation in skarnized rock	.	⊙	○		○										.	.	.	.		
5	7A0501	MJKA-6	103.60	Cp py asp imp. In px skarn			.	.	⊙				.	.					.	.	.	.		
6	7A0508	MJKA-6	111.20	Pyrite arsenopyrite cal. Vein			⊙	○	○	.									.	.	.	.		
7	7A0509	MJKA-6	112.70	Cp py asp imp. In garnet skarn					⊙		⊙													
8	7A0558	MJKA-7	15.90	Pyrite concentrates in brecciated skarn			⊙														.	.		
9	7A0565	MJKA-7	23.70	Malachite-crysocolla-quartz vein																	.	.	○	
10	7A0644	MJKA-7	125.10	Shear with pyrite-arsenopyrite			⊙		○				.						.		.	.		
11	7A0683	MJKA-7	176.80	Arsenopyrite veinlet in aplite			.	○	⊙	.	.										.	.		
12	7A0039	MJKA-8	4.50	Arsenopyrite vein in epidote skarn			.		⊙															
13	7A0041	MJKA-8	5.80	Pyrite veinlets in silicified skarn			.		⊙			⊙	○		.	.		.	.					
14	7A0088	MJKA-8	52.05	Malachite vein					○													○	○	
15	7A0259	MJKA-9	60.00	Pyrite-quartz calcite vein	.	⊙	.	.	.	.	.													
16	7A0280	MJKA-9	85.30	Pyrite imp. In pyroxene skarn	.	⊙	.	.	○	.	.													
17	7A0384	MJKA-9	140.70	Arsenopyrite-quartz vein					⊙												.	.	○	
18	7A0017	MJKA-10	20.80	Pyrite-calcite vein			⊙		○										.	.	○			
19	7A0022	MJKA-10	25.60	Pyrite impregnation in pyroxene skarn			⊙		○	.	.								△	△	.	.		
20	7A0733	MJKA-11	78.50	Pyrite in pyroxene skarn			⊙	○	△	○		.							.	.	.	.		

⊙ : Abundant ○ : Common △ : Poor . : Rare





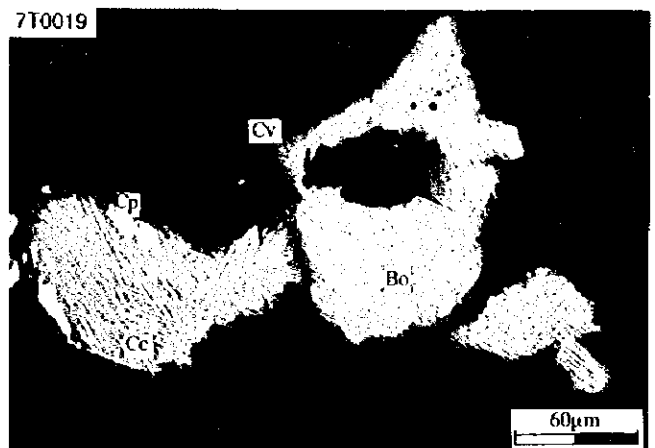
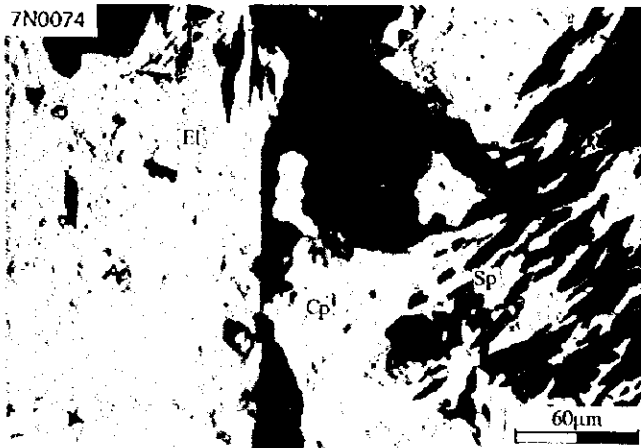
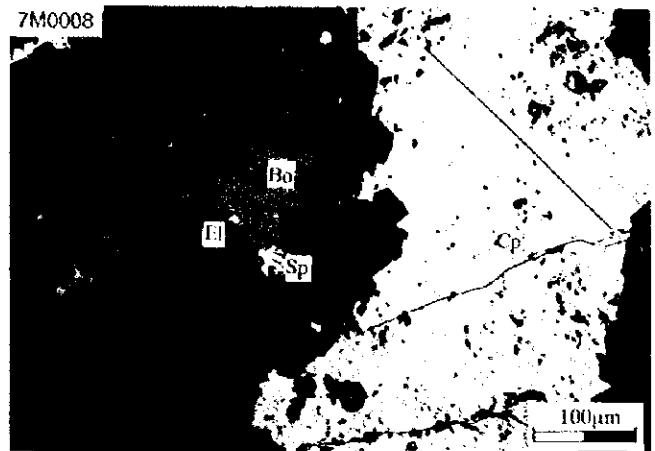
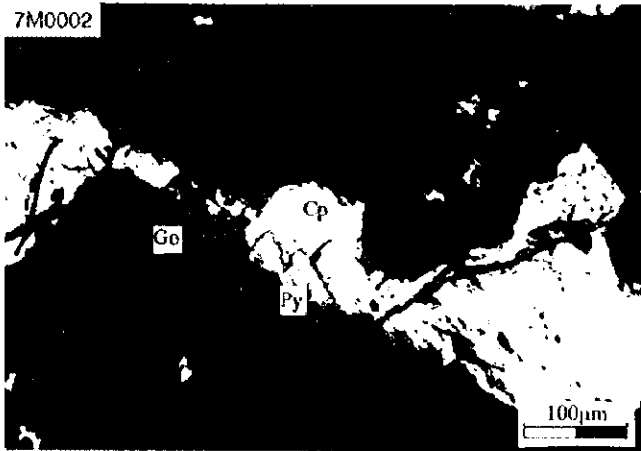
## Appendix 1-6

Microscopic Photographs of Polished Sections





Apx. 1-6 Photomicrographs of Polished Sections



Abbreviations

- As : Arsenopyrite
- Bo : Bornite
- Bs : Bismuthinite
- Cc : Chalcocite
- Cp : Chalcopyrite
- Cv : Covellin
- El : Electrum
- Go : Goethite
- Py : Pyrite
- Sp : Sphalerite
- Tl : Tetrahedrite
- Wt : Wittichenite



## Appendix 1-7

Assay Results of Geological Survey



Apx. 1-7 Assay Result of Geological Survey (1)

Serial No.	Sample No.	Locality			Rock name	Au (g/t)	Ag (g/t)	Cu (%)	Pb (10 <sup>-3</sup> %)	Zn (10 <sup>-2</sup> %)	As (10 <sup>-2</sup> %)	Sb (10 <sup>-2</sup> %)	Mo (10 <sup>-4</sup> %)
		District	Place	Width (m)									
1	7M0001	Altyn-Jylga	Trench K-3A	1.5	Pyroxene skarn	2.6	2	0.2	0.3	3	70	<0.3	7
2	7M0002	Altyn-Jylga	Trench K-3A	1.0	Pyroxene skarn	9.0	<0.1	0.7	<0.1	3	7	<0.3	5
3	7M0004	Altyn-Jylga	Transporting road	1.0	Amphibolite	0.15	<0.1	0.007	0.2	1.2	<1.2	<0.3	3
4	7M0005	Altyn-Jylga	Trench K-3	1.0	Lamprophyre	0.04	0.12	0.005	1.5	1.5	<1.2	<0.3	3
5	7M0006	Altyn-Jylga	Trench K-3	1.0	Silicified skarn	1.3	0.2	0.015	0.3	1.5	<1.2	<0.3	12
6	7M0008	Altyn-Jylga	Trench K-1A	1.0	Pyroxene garnet skarn	19.2	16.0	0.22	0.3	7	1.5	<0.3	<1.2
7	7M0009	Altyn-Jylga	Trench K-1A	1.0	Pyroxene garnet skarn	1.2	2	0.07	0.5	3	<1.2	<0.3	20
8	7M0011	Altyn-Jylga	Trench K-1A	1.0	Pyroxene garnet skarn	0.03	0.5	0.007	0.7	4	<1.2	<0.3	5
9	7M0016	Altyn-Jylga	West. Trench K-42	0.1	Serpentinite with malachite	3.8	70	0.38	0.9	3	1.2	0.3	5
10	7M0018	Altyn-Jylga	West. Trench K-42	0.1	Pyroxene skarn with malachite	0.8	4	0.20	12	30	1.5	0.4	1.5
11	7M0019	Altyn-Jylga	West. Trench K-42	0.1	Serpentinized pyroxene skarn	0.03	0.5	0.007	1.2	2	1.2	1.2	1.2
12	7M0020	Altyn-Jylga	Near MJKA-8	0.3	Malachite-limonite vein	1.3	15	0.48	0.4	4	5	<0.3	50
13	7M0021	Altyn-Jylga	Trench K-35	1.0	Pyroxene skarn	0.02	1.5	0.009	<0.1	3	<1.2	<0.3	<1.2
14	7M0022	Altyn-Jylga	Trench K-37	1.0	Pyroxene skarn	0.04	0.2	0.03	0.3	5	1.2	0.9	1.2
15	7M0023	Altyn-Jylga	Trench K-33	1.0	Serpentinized pyroxene skarn	0.15	0.3	0.07	0.5	5	2	1.5	<1.2
16	7M0025	Altyn-Jylga	West. Trench K-64	1.0	Altered granodiorite	0.05	0.15	0.012	1.5	2	7	0.7	3
17	7N0001	Altyn-Jylga	Trench K-5A	0.3	Proxene skarn	0.05	0.3	0.07	0.15	12	<1.2	<0.3	<1.2
18	7N0002	Altyn-Jylga	Trench K-5A	0.3	Yellowish brown clay	1.0	1.5	0.015	1.5	2	20	2	7
19	7N0003	Altyn-Jylga	Trench K-5A	0.5	Proxene skarn	0.2	0.12	0.02	0.5	12	<1.2	<0.3	1.2
20	7N0006	Altyn-Jylga	Trench K-19A	1.0	Proxene skarn	0.4	1.5	0.04	0.5	1.5	<1.2	<0.3	9
21	7N0007	Altyn-Jylga	Trench K-19A	1.0	Pyroxene skarn	1.3	1.2	0.015	1.2	1.5	1.5	<0.3	4
22	7N0008	Altyn-Jylga	Trench K-18A	1.0	Yellowish brown clay	0.12	<0.1	0.007	0.5	5	3	<0.3	9
23	7N0009	Altyn-Jylga	Trench K-17A	0.5	Yellowish brown clay	0.5	2	0.03	1.5	5	9	5	15
24	7N0010	Altyn-Jylga	Trench K-17A	1.0	Silicified skarn	0.05	2	0.03	1.5	4	2	1.5	4
25	7N0011	Altyn-Jylga	Trench K-17A	1.0	Silicified skarn	0.2	0.9	0.02	1.5	0.7	<1.2	<0.3	70

**Apx. 1-7 Assay Result of Geological Survey (2)**

Sierial No.	Sample No.	Locality			Rock name	Au	Ag	Cu	Pb	Zn	As	Sb	Mo
		District	Place	Width (m)		(g/t)	(g/t)	(%)	(10 <sup>-3</sup> %)	(10 <sup>-2</sup> %)	(10 <sup>-2</sup> %)	(10 <sup>-2</sup> %)	(10 <sup>-4</sup> %)
26	7N0012	Altyn-Jylga	Trench K-18A	1.0	Silicified skarn	0.07	0.5	0.009	1.5	3	1.5	<0.3	9
27	7N0013	Altyn-Jylga	Trench K-18A	1.0	Silicified skarn	1.6	1.2	0.012	0.7	5	5	0.3	9
28	7N0015	Altyn-Jylga	Trench K-26A	0.15	Yellowish brown zone	4.0	40	1.36	0.4	9	100	3	30
29	7N0016	Altyn-Jylga	Trench K-26A	0.3	Yellowish brown zone	3.15	30	0.70	0.15	9	48	2	3
30	7N0017	Altyn-Jylga	Trench K-3A	0.4	Silicified skarn	0.3	0.9	0.09	<0.1	3	12	0.7	9
31	7N0019	Altyn-Jylga	Trench K-8	0.1	Yellowish brown zone	0.4	0.9	0.03	5	<0.3	7	0.5	9
32	7N0020	Altyn-Jylga	Trench K-8	0.5	Silicified skarn	2.5	20.5	1.42	1.2	5	30	2	30
33	7N0021	Altyn-Jylga	Trench K-23A	1.0	Yellowish brown zone	34.3	48.5	0.9	9	20	160	70	3
34	7N0022	Altyn-Jylga	Trench K-23A	1.0	Yellowish brown zone	33.7	49.4	0.28	1.5	20	489	90	2
35	7N0023	Altyn-Jylga	Trench K-23A	1.0	Yellowish brown zone	9.65	38.0	0.40	<0.1	15	165	30	2
36	7N0024	Altyn-Jylga	Trench K-23A	1.0	Proxene skarn	1.1	0.5	0.015	1.2	3	2	<0.3	7
37	7N0025	Altyn-Jylga	Trench K-5A	1.0	Proxene skarn	0.07	0.1	0.009	1.5	4	<1.2	<0.3	5
38	7N0026	Altyn-Jylga	Trench K-5A	1.0	Proxene skarn	0.12	0.12	0.012	<0.1	9	<1.2	<0.3	3
39	7N0027	Altyn-Jylga	1930mL Adit	0.3	Limonite gossan	5.3	1.5	0.02	3	15	70	12	15
40	7N0028	Altyn-Jylga	1930mL Adit	1.1	Pyroxene skarn	32.4	1.5	0.03	0.5	2	12	0.4	1.5
41	7N0029	Altyn-Jylga	1930mL Adit	0.5	Pyroxene skarn	35.8	3	0.03	3	2	70	7	20
42	7N0031	Altyn-Jylga	1930mL Adit	1.0	Pyroxene skarn	22.1	1.2	0.07	1.2	5	50	2	1.2
43	7N0032	Altyn-Jylga	1930mL Adit	0.4	Sheared zone	1.9	0.12	0.009	2	4	7	1.5	9
44	7N0033	Altyn-Jylga	1930mL Adit	1.0	Pyroxene skarn	1.1	0.1	0.01	1.5	3	3	0.4	5
45	7N0034	Altyn-Jylga	1930mL Adit	0.4	Sheared zone	12.0	1.2	0.03	0.2	7	1.2	<0.3	<1.2
46	7N0035	Altyn-Jylga	1930mL Adit	0.5	Silicified skarn	0.3	2	0.09	1.2	4	3	5	2
47	7N0036	Altyn-Jylga	1930mL Adit	0.2	Fissure with quartz vein	0.7	0.1	0.05	0.12	7	15	40	15
48	7N0037	Altyn-Jylga	1930mL Adit	0.5	Silicified skarn	0.8	139.3	0.3	5	50	<1.2	<0.3	4
49	7N0038	Altyn-Jylga	1930mL Adit	0.25	Sheared zone	0.12	30	0.07	90	70	20	7	7
50	7N0039	Altyn-Jylga	1930mL Adit	0.3	Lamprophyre	0.4	0.4	0.007	1.5	0.5	<1.2	<0.3	2

**Apx. 1-7 Assay Result of Geological Survey (3)**

Sierial No.	Sample No.	Locality			Rock name	Au (g/t)	Ag (g/t)	Cu (%)	Pb (10 <sup>-2</sup> %)	Zn (10 <sup>-2</sup> %)	As (10 <sup>-2</sup> %)	Sb (10 <sup>-2</sup> %)	Mo (10 <sup>-4</sup> %)
		District	Place	Width (m)									
51	7N0040	Altyn-Jylga	1930mL Adit	0.7	Lamprophyre	0.7	0.2	0.009	1.5	1.5	<1.2	<0.3	3
52	7N0041	Altyn-Jylga	1930mL Adit	0.3	Lamprophyre	1.0	0.3	0.005	0.9	0.4	195	0.5	5
53	7N0042	Altyn-Jylga	1930mL Adit	0.2	Sheared zone	1.8	2	0.012	20	7	12	5	30
54	7N0043	Altyn-Jylga	1930mL Adit	0.5	Silicified skarn	1.1	0.5	0.02	0.9	3	5	3	70
55	7N0044	Altyn-Jylga	1930mL Adit	0.3	Sheared zone	1.5	1.2	0.04	1.5	3	7	0.9	20
56	7N0045	Altyn-Jylga	1930mL Adit	0.6	Silicified shear	1.0	<0.1	0.005	0.9	2	4	2	9
57	7N0046	Altyn-Jylga	1930mL Adit	0.3	Sheared zone	3.0	0.15	0.007	2	3	20	9	90
58	7N0047	Altyn-Jylga	1930mL Adit	0.5	Silicified skarn	22.2	0.9	0.007	0.7	3	15	2	9
59	7N0048	Altyn-Jylga	1930mL Adit	0.3	Sheared zone	1.7	<0.1	0.009	0.15	5	30	15	20
60	7N0049	Altyn-Jylga	1930mL Adit	0.5	Silicified skarn	3.3	0.12	0.007	0.12	9	<1.2	0.3	3
61	7N0050	Altyn-Jylga	1930mL Adit	0.2	Sheared zone	0.4	1.2	0.03	2	1.5	2	0.5	70
62	7N0051	Altyn-Jylga	1930mL Adit	0.5	Sheared zone	0.7	1.2	0.04	3	1.5	7	2	70
63	7N0052	Altyn-Jylga	1930mL Adit	0.6	Sheared zone	0.3	0.2	0.012	0.9	0.3	1.2	<0.3	12
64	7N0054	Altyn-Jylga	1930mL Adit	0.2	Sheared zone	0.4	0.2	0.012	0.7	0.9	90	9	30
65	7N0056	Altyn-Jylga	1930mL Adit	0.5	Pyroxene skarn	24.3	7	0.12	1.2	20	2	0.5	2
66	7N0057	Altyn-Jylga	1930mL Adit	0.3	Sheared zone with clay	1.0	0.12	0.02	0.9	30	5	0.7	2
67	7N0058	Altyn-Jylga	1930mL Adit	0.5	Pyroxene skarn	4.0	1.5	0.04	0.5	15	2	0.3	1.5
68	7N0060	Altyn-Jylga	1930mL Adit	0.3	Sheared zone	1.9	0.7	0.07	0.5	7	15	2	1.5
69	7N0061	Altyn-Jylga	1930mL Adit	0.5	Pyroxene skarn	8.1	1.2	0.09	0.7	4	1.2	<0.3	5
70	7N0062	Altyn-Jylga	1930mL Adit	1.0	Pyroxene skarn	0.3	3	0.12	1.5	3	1.2	<0.3	15
71	7N0063	Altyn-Jylga	1930mL Adit	0.5	Pyroxene skarn	2.0	1.2	0.09	0.12	2	3	<0.3	2
72	7N0064	Altyn-Jylga	1930mL Adit	0.5	Limonite druse	1.8	3	0.07	2	4	27	7	2
73	7N0065	Altyn-Jylga	1930mL Adit	0.5	Pyroxene skarn	0.9	1.5	0.07	1.2	4	27	4	4
74	7N0066	Altyn-Jylga	Transporting road	0.1	Fissure with clay	0.09	<0.1	0.009	0.2	4	1.5	0.7	3
75	7N0067	Altyn-Jylga	Transporting road	0.3	Fissure with clay	0.09	0.9	0.007	1.5	1.5	7	0.3	20

Apx. 1-7 Assay Result of Geological Survey (4)

Serial No.	Sample No.	Locality			Rock name	Au (g/t)	Ag (g/t)	Cu (%)	Pb (10 <sup>-3</sup> %)	Zn (10 <sup>-2</sup> %)	As (10 <sup>-2</sup> %)	Sb (10 <sup>-2</sup> %)	Mo (10 <sup>-4</sup> %)
		District	Place	Width (m)									
76	7N0068	Altyn-Jylga	Transporting road	0.8	Pyroxene skarn	2.15	4	0.15	0.4	12	20	<0.3	2
77	7N0069	Altyn-Jylga	Transporting road	1.0	Silicified skarn	1.7	3	0.05	1.5	0.4	90	<0.3	20
78	7N0070	Altyn-Jylga	Transporting road	0.3	Sheared zone with green copper	101.0	90	0.3	2	4	142	1.2	50
79	7N0071	Altyn-Jylga	Transporting road	0.1	Limonite along fissure	2.3	1.2	0.015	3	0.7	150	3	90
80	7T0003	Altyn-Jylga	Trench K-25A	0.5	Silicified marble	0.7	7	2.90	0.12	7	1.2	0.5	400
81	7T0007	Altyn-Jylga	Trench K-38A	0.7	Pyroxene skarn	0.5	2	0.15	3	7	3	<0.3	2
82	7T0008	Altyn-Jylga	Entrance of adit	1.0	Granodiorite	0.15	0.2	0.09	2	0.7	1.2	<0.3	4
83	7T0009	Altyn-Jylga	Trench K-91	1.0	Skarnized gabbro	0.6	1.5	0.03	0.7	3	<1.2	<0.3	7
84	7T0010	Altyn-Jylga	Trench K-91	1.0	Pyroxene skarn	1.4	0.7	0.07	0.2	20	3	0.4	1.2
85	7T0011	Altyn-Jylga	Upper part of adit	1.0	Silicified skarn	0.12	0.15	0.012	1.5	1.5	1.2	<0.3	7
86	7T0013	Altyn-Jylga	South ridge of camp	0.5	Calcite vein in px-skarn	0.15	0.15	0.009	1.2	2	1.5	<0.3	2
87	7T0015	Altyn-Jylga	Trench on south ridge	1.0	Pyroxene skarn	3.2	24.4	1.00	0.3	15	1.5	<0.3	<1.2
88	7T0019	Altyn-Jylga	West Trench K-23	1.0	Pyroxene skarn with green copper	5.7	19.5	1.00	1.2	5	1.5	<0.3	2
89	7T0020	Altyn-Jylga	West Trench K-23	1.0	Sheared zone	10.0	56	0.48	0.9	7	3	0.5	1.5
90	7T0021	Altyn-Jylga	West Trench K-23	1.0	Pyroxene skarn with green copper	5.3	30	2.60	0.5	30	4	0.3	2
91	7T0022	Altyn-Jylga	W. Trench K-23 upper	0.5	Sheared zone with limonite, clay	1.4	0.2	0.007	<0.1	<0.3	<1.2	<0.3	2
92	7T0023	Altyn-Jylga	Western trench of K-23	1.0	Pyroxene skarn with green copper	1.6	13.7	1.10	1.2	7	4	<0.3	1.5
93	7T0026	Altyn-Jylga	West Trench K-65	2.0	Limonitized sheared zone	0.3	5	0.012	30	50	15	9	3
94	7T0027	Altyn-Jylga	West Trench K-62	1.0	Limonitized sheared zone	0.12	30	0.02	50	9	2	9	<1.2
95	7T0028	Altyn-Jylga	South Trench K-11	2.0	Lamprophyre	0.5	1.2	0.02	3	2	3	0.3	5
96	7T0029	Altyn-Jylga	South Trench K-11	2.0	Skarnized lamprophyre	3.0	100	1.00	2	4	1.5	0.3	5
97	7T0030	Altyn-Jylga	South Trench K-11	2.0	Skarnized lamprophyre	5.0	42	2.90	2	7	50	30	40
98	7T0031	Altyn-Jylga	South Trench K-6	0.5	Lamprophyre	0.3	0.7	0.03	3	3	1.5	0.4	40
99	7T0032	Altyn-Jylga	Southern part	0.8	Lamprophyre	1.3	70	1.90	2	3	90	70	20
100	7T0033	Altyn-Jylga	Southern part	2.0	Pyroxene skarn	2.8	3	0.3	0.9	12	1.5	0.3	1.5



**Apx. 1-7 Assay Result of Geological Survey (5)**

Serial No.	Sample No.	Locality			Rock name	Au (g/t)	Ag (g/t)	Cu (%)	Pb (10 <sup>-3</sup> %)	Zn (10 <sup>-2</sup> %)	As (10 <sup>-2</sup> %)	Sb (10 <sup>-2</sup> %)	Mo (10 <sup>-4</sup> %)
		District	Place	Width (m)									
101	7T0034	Altyn-Jylga	South. Trench K-36	2.0	Pyroxene skarn	1.4	12	0.15	0.2	5	12	1.2	1.5
102	7T0035	Altyn-Jylga	West. Trench K-63	0.4	Limonite gossan	8.9	70	0.009	90	100	7	12	<1.2
103	7M0029	Karakazyk	Karakazyk No.1 ore zone	3.1	Pyroxene garnet skarn	1.95	20	0.9	1.5	15	1.2	<0.3	4
104	7M0032	Karakazyk	Karakazyk No.2 ore zone	0.2	Pyroxene skarn with sulfide	10	100	6.90	3	7	2	3	<1.2
105	7M0033	Karakazyk	Karakazyk No.3 ore zone	0.2	Pyroxene skarn with sulfide	43.5	100	3.52	2	15	<1.2	<0.3	2
106	7M0035	Karakazyk	Karakazyk No.4 ore zone	2.0	Skarnized ore	7.0	30	1.44	0.7	12	1.5	0.4	<1.2
107	7M0038	Karakazyk	West to Left bank	2.0	Pyroxene skarn	11.75	2	0.015	0.9	3	<1.2	0.3	5
108	7M0039	Karakazyk	West to Left bank	2.0	Garnet pyroxene skarn	2.0	20	0.7	0.9	30	1.2	<0.3	1.2
109	7M0040	Karakazyk	West to Left bank	2.0	Pyroxene skarn	0.2	0.7	0.015	1.5	4	1.5	0.7	12
110	7M0044	Karakazyk	West to Karakazyk	2.0	Garnet pyroxene skarn	0.09	<0.1	0.007	1.2	4	<1.2	<0.3	1.2
111	7M0046	Karakazyk	West to Karakazyk	1.0	Pyroxene skarn	0.07	0.15	0.012	1.2	2	<1.2	<0.3	15
112	7M0047	Karakazyk	Karakazyk No.1 ore zone	4.0	Garnet pyroxene skarn	0.7	7	0.7	1.2	9	1.2	<0.3	1.5
113	7M0048	Karakazyk	Karakazyk No.1 ore zone	3.0	Wollastonite skarn	12.4	100	7.60	70	70	<1.2	<0.3	<1.2
114	7N0077	Karakazyk	Left bank deposit	0.8	Skarnized rock	16.4	100	1.48	3	9	1.2	<0.3	1.5
115	7N0078	Karakazyk	Left bank deposit	1.0	Granite	105.1	90	1.98	70	2	1.2	0.9	3
116	7N0080	Karakazyk	Left bank deposit	0.2	Garnet skarn	1.35	1.2	0.02	5	7	1.2	1.5	2
117	7N0081	Karakazyk	Left bank deposit	0.1	Fissure zone	1.35	100	0.52	2	15	20	<0.3	1.2
118	7N0082	Karakazyk	Left bank deposit	1.2	Skarnized rock	23.7	70	2.70	4	30	<1.2	2	5
119	7N0084	Karakazyk	Left bank deposit	1.0	Skarnized rock	7.5	70	0.9	4	15	<1.2	<0.3	2
120	7N0085	Karakazyk	Left bank deposit	1.0	Skarnized rock	21.5	100	1.26	7	7	<1.2	<0.3	7
121	7N0088	Karakazyk	Left bank deposit	1.0	Skarnized rock	8.1	100	4.40	30	70	70	50	<1.2
122	7T0043	Karakazyk	East to Karakazyk	1.0	Pyroxene skarn	0.5	5	0.15	0.12	7	<1.2	2	<1.2
123	7T0044	Karakazyk	East to Karakazyk	1.0	Proxene skarn	3.35	50	1.00	5	20	1.5	<0.3	1.2



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## Appendix 1-8

Assay Results of Core Samples



Apx. 1-8 Assay Result of Core Samples (1)

Serial No.	Sample No.	Locality			Rock name	Au (g/t)	Ag (g/t)	Cu (%)	Pb (10 <sup>-3</sup> %)	Zn (10 <sup>-2</sup> %)	As (10 <sup>-2</sup> %)	Sb (10 <sup>-2</sup> %)	Mo (10 <sup>-4</sup> %)
		Drill hole No.	Depth (m)	Length (m)									
1	7A0001	MJKA-10	0~1.0	1.0	Silicified skarn	0.15	3	0.03	1.5	3	1.2	<0.3	9
2	7A0002	MJKA-10	1.0~2.0	1.0	Silicified skarn	<0.012	0.7	0.015	0.9	2	1.2	<0.3	15
3	7A0003	MJKA-10	2.0~3.0	1.0	Silicified skarn	0.03	1.2	0.02	0.9	2	1.5	<0.3	7
4	7A0004	MJKA-10	3.0~4.0	1.0	Silicified skarn	0.09	0.5	0.012	1.5	1.5	1.2	<0.3	9
5	7A0005	MJKA-10	4.0~5.0	1.0	Silicified skarn	0.05	0.9	0.012	1.5	1.2	1.5	0.3	12
6	7A0006	MJKA-10	5.0~6.0	1.0	Silicified skarn	0.05	0.9	0.02	1.5	1.5	1.2	<0.3	9
7	7A0007	MJKA-10	6.0~7.0	1.0	Silicified skarn	0.15	0.9	0.02	1.5	1.5	3	0.3	20
8	7A0008	MJKA-10	7.0~8.0	1.0	Silicified skarn	0.12	0.5	0.015	1.2	0.9	2	<0.3	20
9	7A0009	MJKA-10	8.0~9.0	1.0	Granodiorite	0.2	1.5	0.03	2	0.9	<1.2	<0.3	30
10	7A0010	MJKA-10	13.5~14.4	0.9	Granodiorite	0.12	0.9	0.02	3	1.2	<1.2	<0.3	9
11	7A0011	MJKA-10	14.4~15.5	1.1	Pyroxene skarn	0.04	1.2	0.02	0.5	3	2	0.4	15
12	7A0012	MJKA-10	15.5~16.5	1.0	Silicified skarn	0.05	0.5	0.012	0.7	1.5	2	<0.3	20
13	7A0013	MJKA-10	16.5~17.5	1.0	Silicified skarn	0.4	0.9	0.02	0.9	2	<1.2	0.3	7
14	7A0014	MJKA-10	17.5~18.3	0.8	Silicified skarn	0.15	1.5	0.03	3	1.5	1.2	<0.3	9
15	7A0015	MJKA-10	18.3~19.0	0.7	Pyroxene skarn	0.7	0.7	0.007	0.12	2	<1.2	0.3	7
16	7A0016	MJKA-10	19.0~20.0	1.0	Silicified skarn	0.05	0.7	0.009	0.4	2	1.2	0.3	7
17	7A0017	MJKA-10	20.0~21.0	1.0	Pyroxene skarn with cal-py vein	0.3	0.9	0.03	0.3	4	1.2	0.3	7
18	7A0018	MJKA-10	21.0~22.0	1.0	Pyroxene skarn with calcite vein	0.4	0.7	0.02	0.3	4	<1.2	<0.3	9
19	7A0019	MJKA-10	22.0~23.0	1.0	Pyroxene skarn	0.15	0.2	0.01	0.4	4	<1.2	0.3	9
20	7A0020	MJKA-10	23.0~24.0	1.0	Pyroxene skarn	0.4	0.5	0.03	0.12	5	<1.2	0.3	1.2
21	7A0021	MJKA-10	24.0~25.0	1.0	Pyroxene skarn	0.6	1.5	0.09	0.12	5	<1.2	0.4	3
22	7A0022	MJKA-10	25.0~26.0	1.0	Pyroxene skarn with py imp.	1.1	12	0.09	0.2	5	<1.2	0.3	1.5
23	7A0023	MJKA-10	26.0~27.0	1.0	Pyroxene skarn	0.8	<0.1	0.007	0.15	9	1.5	<0.3	4
24	7A0024	MJKA-10	27.0~28.0	1.0	Pyroxene skarn	1.0	2	0.15	0.15	9	4	0.3	3
25	7A0025	MJKA-10	28.0~29.0	1.0	Pyroxene skarn	0.6	0.9	0.07	0.12	7	1.2	0.3	2

Apx. 1-8 Assay Result of Core Samples (2)

Sierial No.	Sample No.	Locality			Rock name	Au (g/t)	Ag (g/t)	Cu (%)	Pb (10 <sup>-3</sup> %)	Zn (10 <sup>-2</sup> %)	As (10 <sup>-2</sup> %)	Sb (10 <sup>-2</sup> %)	Mo (10 <sup>-4</sup> %)
		Drill hole No.	Depth (m)	Length (m)									
26	7A0026	MJKA-10	29.0~30.0	1.0	Pyroxene skarn	1.2	15	0.4	0.12	12	3	0.4	7
27	7A0027	MJKA-10	30.0~31.0	1.0	Pyroxene skarn	0.8	2	0.07	0.12	12	3	0.3	4
28	7A0028	MJKA-10	31.0~32.0	1.0	Pyroxene skarn	1.2	2	0.2	1.5	15	3	0.7	7
29	7A0029	MJKA-10	32.0~33.0	1.0	Pyroxene skarn	0.8	0.5	0.05	0.3	12	1.2	0.3	2
30	7A0030	MJKA-10	33.0~34.0	1.0	Pyroxene skarn	0.15	<0.1	0.012	0.12	5	1.2	0.3	<1.2
31	7A0031	MJKA-10	34.0~35.0	1.0	Pyroxene skarn	1.0	0.4	0.015	0.2	12	3	0.3	4
32	7A0032	MJKA-10	35.0~36.0	1.0	Pyroxene skarn	1.0	0.5	0.02	0.3	12	15	0.3	20
33	7A0033	MJKA-10	36.0~36.5	0.5	Pyroxene skarn	2.3	0.9	0.12	0.15	12	5	0.3	3
34	7A0034	MJKA-10	36.5~37.5	1.0	Wollastonite skarn	0.04	0.3	0.01	0.2	4	1.2	<0.3	2
35	7A0035	MJKA-8	0~1.0	1.0	Silicified skarn	0.015	0.7	0.03	0.2	5	3	0.3	3
36	7A0036	MJKA-8	1.0~2.0	1.0	Silicified skarn	0.012	0.7	0.03	0.2	5	3	0.3	3
37	7A0037	MJKA-8	2.0~3.0	1.0	Silicified skarn	0.09	0.15	0.005	0.7	9	5	<0.3	5
38	7A0038	MJKA-8	3.0~4.0	1.0	Silicified skarn	0.15	0.3	0.012	0.12	9	5	0.3	3
39	7A0039	MJKA-8	4.0~4.5	0.5	Epidote skarn with arsenopyrite vein	12.0	5	0.015	0.4	3	100	7	9
40	7A0040	MJKA-8	4.5~5.1	0.6	Marble	3.0	20	0.09	1.2	3	1.5	1.5	1.2
41	7A0041	MJKA-8	5.1~6.3	1.2	Silicified skarn with pyrite veinlets	2.2	7	0.2	0.12	7	15	1.2	1.5
42	7A0042	MJKA-8	6.3~7.3	1.0	Marble	0.2	<0.1	0.005	0.12	<0.3	3	<0.3	<1.2
43	7A0043	MJKA-8	7.3~8.3	1.0	Marble	0.4	0.4	0.012	0.2	<0.3	5	<0.3	<1.2
44	7A0044	MJKA-8	8.3~9.2	0.9	Marble	0.8	0.5	0.02	<0.1	0.3	20	<0.3	<1.2
45	7A0045	MJKA-8	9.2~10.2	1.0	Silicified skarn	0.15	0.5	0.015	0.9	2	2	<0.3	4
46	7A0046	MJKA-8	10.2~11.2	1.0	Silicified skarn	0.12	0.5	0.03	0.5	3	2	<0.3	12
47	7A0047	MJKA-8	11.2~12.2	1.0	Silicified skarn	0.05	0.4	0.02	0.5	0.9	3	<0.3	5
48	7A0048	MJKA-8	12.2~12.8	0.6	Silicified skarn	0.4	0.9	0.012	0.9	-	1.2	<0.3	4
49	7A0049	MJKA-8	12.8~13.6	0.8	Diorite porphyry	0.05	0.2	0.007	0.7	0.7	1.2	<0.3	7
50	7A0050	MJKA-8	13.6~14.6	1.0	Silicified skarn	0.5	<0.1	0.002	<0.1	3	<1.2	<0.3	1.2

Apx. 1-8 Assay Result of Core Samples (3)

Sierial No.	Sample No.	Locality			Rock name	Au	Ag	Cu	Pb	Zn	As	Sb	Mo
		Drill hole No.	Depth (m)	Length (m)		(g/t)	(g/t)	(%)	(10 <sup>-3</sup> %)	(10 <sup>-2</sup> %)	(10 <sup>-2</sup> %)	(10 <sup>-2</sup> %)	(10 <sup>-4</sup> %)
51	7A0051	MJKA-8	14.6~15.2	0.6	Epidote pyroxene skarn	0.6	0.5	0.012	0.2	5	3	0.3	7
52	7A0052	MJKA-8	15.2~16.2	1.0	Silicified skarn	1.2	1.5	0.03	0.15	0.3	1.2	0.3	<1.2
53	7A0053	MJKA-8	16.2~17.2	1.0	Silicified skarn	0.12	0.5	0.012	0.2	-	1.2	<0.3	3
54	7A0054	MJKA-8	17.2~18.9	1.7	Silicified skarn	0.07	0.5	0.012	0.9	3	<1.2	<0.3	5
55	7A0055	MJKA-8	18.9~20.0	1.1	Skarnized amprophyre	0.2	1.5	0.04	1.2	5	<1.2	0.4	7
56	7A0056	MJKA-8	20.0~21.2	1.2	Silicified skarn	0.09	0.5	0.015	1.5	4	<1.2	<0.3	7
57	7A0057	MJKA-8	21.2~22.2	1.0	Pyroxene skarn with calcite vein	2.4	3	0.03	0.12	7	9	0.3	30
58	7A0058	MJKA-8	22.2~22.9	0.7	Pyroxene skarn	0.5	0.3	0.03	0.2	5	3	0.3	15
59	7A0059	MJKA-8	22.9~23.9	1.0	Silicified skarn	0.09	<0.1	0.01	0.5	7	1.2	<0.3	3
60	7A0060	MJKA-8	23.9~24.9	1.0	Silicified skarn	0.12	0.3	0.02	0.7	3	15	0.3	3
61	7A0061	MJKA-8	24.9~25.9	1.0	Silicified skarn	0.07	1.5	0.02	0.15	3	1.2	<0.3	2
62	7A0062	MJKA-8	25.9~26.9	1.0	Silicified skarn	0.03	0.2	0.005	0.12	4	4	0.3	3
63	7A0063	MJKA-8	26.9~27.9	1.0	Silicified skarn	0.15	0.12	0.005	0.12	5	<1.2	<0.3	2
64	7A0064	MJKA-8	27.9~28.9	1.0	Silicified skarn	0.02	0.5	0.015	2	1.5	<1.2	<0.3	7
65	7A0065	MJKA-8	28.9~29.5	0.6	Silicified skarn	0.03	0.2	0.009	1.2	1.5	<1.2	<0.3	9
66	7A0066	MJKA-8	29.5~30.2	0.7	Grandiorite porphyry	0.015	<0.1	0.005	1.5	0.4	<1.2	<0.3	12
67	7A0067	MJKA-8	30.2~31.2	1.0	Silicified skarn	0.012	0.12	0.007	1.2	2	<1.2	<0.3	9
68	7A0068	MJKA-8	31.2~32.2	1.0	Silicified skarn	<0.012	0.7	0.012	4	1.2	<1.2	<0.3	4
69	7A0069	MJKA-8	32.2~33.2	1.0	Silicified skarn	0.12	0.9	0.015	3	1	<1.2	<0.3	5
70	7A0070	MJKA-8	33.2~34.2	1.0	Silicified skarn	0.012	0.9	0.012	0.4	2	<1.2	<0.3	5
71	7A0071	MJKA-8	34.2~35.2	1.0	Silicified skarn	0.03	0.4	0.012	0.5	4	<1.2	<0.3	5
72	7A0072	MJKA-8	35.2~36.2	1.0	Silicified skarn	0.07	0.5	0.012	4	5	1.2	0.3	12
73	7A0073	MJKA-8	36.2~37.2	1.0	Silicified skarn	0.2	0.3	0.009	0.12	0.5	<1.2	<0.3	4
74	7A0074	MJKA-8	37.2~38.2	1.0	Silicified skarn	0.12	0.7	0.015	2	2	<1.2	0.3	7
75	7A0075	MJKA-8	38.2~39.2	1.0	Silicified skarn	0.5	0.3	0.012	0.7	2	<1.2	0.3	5

Apx. 1-8 Assay Result of Core Samples (4)

Sierial No.	Sample No.	Locality			Rock name	Au (g/t)	Ag (g/t)	Cu (%)	Pb (10 <sup>-3</sup> %)	Zn (10 <sup>-2</sup> %)	As (10 <sup>-2</sup> %)	Sb (10 <sup>-2</sup> %)	Mo (10 <sup>-4</sup> %)
		Drill hole No.	Depth (m)	Length (m)									
76	7A0076	MJKA-8	39.2~40.2	1.0	Silicified skarn	1.0	0.4	0.012	0.7	4	2	<0.3	9
77	7A0077	MJKA-8	40.2~41.2	1.0	Silicified skarn	0.9	0.4	0.004	0.2	1	15	<0.3	3
78	7A0078	MJKA-8	41.2~42.3	1.1	Silicified skarn	0.12	0.3	0.009	0.3	3	<1.2	<0.3	3
79	7A0079	MJKA-8	42.3~43.3	1.0	Alterde skarnized andesite	0.15	<0.1	0.009	0.5	15	2	0.3	4
80	7A0080	MJKA-8	43.3~44.3	1.0	Alterde skarnized andesite	0.5	<0.1	0.002	1.2	3	<1.2	<0.3	7
81	7A0081	MJKA-8	44.3~45.3	1.0	Alterde skarnized andesite	0.15	<0.1	0.002	0.3	5	<1.2	<0.3	5
82	7A0082	MJKA-8	45.3~46.3	1.0	Silicified skarn	0.12	0.12	0.003	1.2	0.3	<1.2	<0.3	7
83	7A0083	MJKA-8	46.3~47.3	1.0	Silicified skarn	0.03	<0.1	0.009	0.3	9	1.2	<0.3	4
84	7A0084	MJKA-8	47.3~48.3	1.0	Silicified skarn	0.2	0.5	0.012	0.2	0.5	<1.2	<0.3	7
85	7A0085	MJKA-8	48.3~49.3	1.0	Silicified skarn	0.03	<0.1	0.001	0.2	7	<1.2	<0.3	4
86	7A0086	MJKA-8	49.3~49.9	0.6	Silicified skarn	0.6	<0.1	0.002	0.3	4	<1.2	<0.3	5
87	7A0087	MJKA-8	49.9~51.2	1.3	Silicified skarn	0.5	0.5	0.03	0.3	4	<1.2	<0.3	15
88	7A0088	MJKA-8	51.2~52.2	1.0	Pyroxene skarn with malachite vein	1.2	0.4	0.15	0.2	7	2	<0.3	120
89	7A0089	MJKA-8	52.2~53.4	1.2	Pyroxene skarn	1.0	0.7	0.03	<0.1	7	<1.2	<0.3	1.2
90	7A0090	MJKA-8	53.4~54.4	1.0	Silicified skarn	0.6	0.5	0.009	0.15	1.5	<1.2	<0.3	4
91	7A0091	MJKA-8	54.4~55.4	1.0	Silicified skarn	0.3	0.7	0.02	0.3	1.2	<1.2	<0.3	7
92	7A0092	MJKA-8	55.4~56.4	1.0	Silicified skarn	0.09	0.3	0.02	0.12	1.2	<1.2	<0.3	7
93	7A0093	MJKA-8	56.4~57.4	1.0	Silicified skarn	0.15	0.7	0.02	0.15	1.2	<1.2	<0.3	9
94	7A0094	MJKA-8	57.4~58.4	1.0	Silicified skarn	1.1	0.7	0.02	0.15	2	7	<0.3	20
95	7A0095	MJKA-8	58.4~59.4	1.0	Silicified skarn	1.2	0.5	0.009	0.4	5	<1.2	<0.3	50
96	7A0096	MJKA-8	59.4~60.4	1.0	Silicified skarn	0.05	0.9	0.07	0.3	2	<1.2	<0.3	15
97	7A0097	MJKA-8	60.4~61.4	1.0	Silicified skarn with quartz vein	0.07	0.1	0.007	0.12	4	<1.2	<0.3	5
98	7A0098	MJKA-8	61.4~62.4	1.0	Silicified skarn	0.12	0.3	0.009	0.3	2	<1.2	<0.3	9
99	7A0099	MJKA-8	62.4~63.4	1.0	Silicified skarn	0.3	0.3	0.007	<0.1	5	<1.2	<0.3	4
100	7A0100	MJKA-8	63.4~64.4	1.0	Silicified skarn	0.03	0.7	0.02	0.3	3	<1.2	<0.3	5



Apx. 1-8 Assay Result of Core Samples (5)

Serial No.	Sample No.	Locality			Rock name	Au (g/t)	Ag (g/t)	Cu (%)	Pb (10 <sup>-3</sup> %)	Zn (10 <sup>-2</sup> %)	As (10 <sup>-2</sup> %)	Sb (10 <sup>-2</sup> %)	Mo (10 <sup>-4</sup> %)
		Drill hole No.	Depth (m)	Length (m)									
101	7A0101	MJKA-8	64.4~65.4	1.0	Silicified skarn	0.03	0.7	0.015	0.4	2	1.2	<0.3	4
102	7A0102	MJKA-8	65.4~66.7	1.3	Silicified skarn	0.04	1.2	0.03	1.2	2	<1.2	<0.3	9
103	7A0103	MJKA-8	66.7~67.8	1.0	Silicified marble	0.02	0.5	0.02	<0.1	2	2	0.3	70
104	7A0104	MJKA-8	67.8~68.8	1.0	Silicified skarn	0.04	0.9	0.02	0.15	1.2	<1.2	<0.3	12
105	7A0105	MJKA-8	68.8~69.8	1.0	Silicified skarn	0.03	0.5	0.02	0.12	0.9	<1.2	<0.3	15
106	7A0106	MJKA-8	69.8~70.8	1.0	Silicified skarn	0.05	0.9	0.009	0.12	2	<1.2	<0.3	40
107	7A0107	MJKA-8	70.8~71.8	1.0	Silicified skarn	0.012	0.3	0.005	0.3	2	<1.2	<0.3	7
108	7A0108	MJKA-8	71.8~72.8	1.0	Silicified skarn	0.6	4	0.05	0.3	3	<1.2	0.3	3
109	7A0109	MJKA-8	72.8~73.8	1.0	Silicified skarn	0.04	0.3	0.01	0.3	3	<1.2	<0.3	7
110	7A0110	MJKA-8	73.8~74.8	1.0	Silicified skarn	0.3	0.2	0.01	0.12	2	<1.2	<0.3	12
111	7A0111	MJKA-8	74.8~75.8	1.0	Silicified skarn	0.3	0.7	0.015	0.4	1.2	<1.2	<0.3	7
112	7A0112	MJKA-8	75.8~76.8	1.0	Weak silicified marble	0.015	0.9	0.02	2	4	2	<0.3	30
113	7A0113	MJKA-8	76.8~77.8	1.0	Weak silicified marble	0.03	0.9	0.02	1.5	2	1.5	<0.3	12
114	7A0114	MJKA-8	77.8~78.8	1.0	Weak silicified marble	0.3	1.2	0.015	1	<0.3	5	<0.3	30
115	7A0115	MJKA-8	78.8~79.8	1.0	Weak silicified marble	0.04	0.7	0.012	0.7	3	7	<0.3	70
116	7A0116	MJKA-8	79.8~80.8	1.0	Weak silicified marble	0.015	0.7	0.012	0.9	3	1.5	<0.3	40
117	7A0117	MJKA-8	80.8~81.8	1.0	Weak silicified marble	0.15	0.3	0.012	1.2	2	4	<0.3	50
118	7A0118	MJKA-8	81.8~82.8	1.0	Weak silicified marble	0.12	0.9	0.012	1.5	2	2	<0.3	120
119	7A0119	MJKA-8	82.8~83.6	0.8	Weak silicified marble	0.05	0.2	0.007	3	1	1.2	<0.3	300
120	7A0120	MJKA-8	83.6~84.3	0.7	Shear with clay	0.04	0.15	0.015	0.7	2	3	<0.3	150
121	7A0121	MJKA-8	84.3~85.3	1.0	Weak silicified marble	0.015	0.7	0.009	0.2	0.4	4	<0.3	20
122	7A0122	MJKA-8	85.3~86.3	1.0	Weak silicified marble	0.07	1.2	0.012	0.2	1.5	5	<0.3	30
123	7A0123	MJKA-8	86.3~87.3	1.0	Weak silicified marble	0.09	2.0	0.12	0.7	2	1.2	<0.3	50
124	7A0124	MJKA-8	87.3~88.3	1.0	Weak silicified marble	0.04	1.5	0.015	0.7	0.9	2	<0.3	15
125	7A0125	MJKA-8	88.3~89.3	1.0	Weak silicified marble	0.12	1.2	0.04	1.2	1.5	4	<0.3	30