

The alteration minerals assemblages of the lower Murgul Formation shows following zones. The quartz-kaolinite-sericite zone extends from the central part of the Kabaca area through the Çakmakkaya Deposit to the Ardiç area in the southwest to northeast direction. The quartz-sericite-chlorite zone appears in the western side of above mentioned alteration zone. The quartz-sericite- (sericite/smectite mixed layer mineral) zone is in the eastern side. The volcanogenic massive sulphide deposits are presumed to embedded in the quartz-kaolinite-sericite zone, because this assemblage of alteration minerals is identified from the stockwork mineralization of the Damar pit. The same zone is identified in the vicinities of granitic intrusive in the east of the Kokolet area, this zone is estimated to have formed when granitic rock intruded.

Quartz, sericite, chlorite, smectite, and sericite/smectite mixed layer mineral are detected from the upper Murgul Formation, and kaolinite is detected from the K085 specimen collected in the Çakmakkaya pit. The quartz-chlorite zone is related to the basic volcanic activities identified from the L026 specimen of the Kabaca Formation.

## (ii) Alteration Index

Alteration indexes (AI) of the lower Murgul Formation are calculated to determine the alteration intensity. Table II-1·4 and Fig. II-1·10 shows the results. The alteration intensity zone, 90 % <AI, is distributed extensively from the Lepüskür River basin in the Kabaca area to the south of the Çakmakkaya Deposit, and in the Ardiç area apart from the Murgul Deposit swarm. It is thought that these zone continuously connect. In the northern Kokolet area, the high intensity zone over, 80 to 90 % AI, extends to the western zone, where the Ardiç Formation overlies. It is said that the alteration intensity zone in the Ardiç area extends toward the Kokolet area. It is, therefore, presumed that the strong alteration intensity zone extends continuously from the Lepüskür River basin to the mountain between the Ardiç area and Kokolet area, trending northeast to southwest. The intensity abruptly changes (J019:98% → J035:61%, K058:96% → K057:70%) in short distance, it is presumed that the alteration indexes reflecting intensity of the mineralization.

## (c) Geochemical Survey

Geochemical survey has been carried out for rock chips to understand

Table II-1-4 Alteration Index of the Murgul Area

1770-156   1775-156   1775-156   1755-156		ipool	20+00	Dock	Altovation	Č	7	Mg	Ns		Coo	Coodinates	Rock	Alteration	ပီ	×	Mg	Š
72.066 4573829 Made 38 10.50 10.50 10.50 77.076 4573829 Made 38 0.02 11.50 22.06 10.50 77.078 4573486 Made 38 0.02 11.50 22.06 0.03 11.50 12.08 10.03 11.50 10.03	mple	I TM-F	IIIM-N	Type	Index(AI)	) »	<u>۶</u> که	n %	%	Sample	UTM-E	N-MTO	Туре	Index(AI)	%	%	, %	%
7121238 4572468 Made 81 0.30 1.40 2.54 0.03 1.20 721239 4572468 Made 16 0.48 0.21 1.20	500	721060		Mdcl	35	10.50	0.31	4.58	0.30	K165	720510	4570170	Mdu	36	0.07	1.52	0.23	2.84
T19201 45680948 Madel 98 0.02 1.52 0.04 LDI 1.05 1.05 4.66448 Madel 64 0.08 1.02 1.12 0.03 1.02 1.12 0.03 1.02 1.12 0.03 1.02 1.12 0.03 1.03 1.03 0.03 1.03 1.03 0.03 1.03 1.03 0.03 1.04 1.03 1.03 0.03 1.03 0.03 0.03 1.03 0.03<	900	721238	$\overline{}$	Mdcl	81	0.30	1.40	2.54	0.73	L005	721968	4572367	Mdcl	16	0.49	0.34	0.51	4.26
TYTISTORY AGRESSION Made Wade 96 0.05 0.07 LOTA 771909 4571219 Made 96 0.05 0.07 LOTA 771909 4571319 Made 96 0.08 1.14 1.12 0.07   715719 45687368 Made 42 0.00 0.18 0.28 1.54 1.178 1.09 0.08 1.28 0.00 1.14 7.1989 4667328 Made 97 0.00 1.51 0.09 0.09 0.00 0.00 1.01 7.1989 4667328 Made 97 0.01 1.61 0.00	017	715201		Mdcl	86	0.02	1.57	0.94	0.04	L010	713559	4568493	Mdcl	54	0.08	1.02	1.29	2.02
115156   4657868   Maci   55   0.03   1.05   0.05   1.05   1.015   1.71598   Maci   55   0.015   1.02   0.17   1.015   1.71598   Maci   55   0.016   0.02   0.02   1.12   0.10   1.014   1.015   1.71598   Maci   51   0.02   0.03   0.03   1.12   0.10   1.015   1.71598   Maci   51   0.03   0.03   1.12   0.10   1.014   1.015   1.71598   Maci   51   0.03   0.03   1.12   0.03   1.12   0.03   1.12   0.03   1.12   0.03   1.12   0.03   1.12   0.03   1.12   0.03   1.12   0.03   1.12   0.03   1.12   0.03   0.04   0.04   0.05   0.04   0.05   0.04   0.05   0.04   0.05   0.04   0.05   0.04   0.05   0.04   0.05	1019	715002		Mdc	86	0.05	0.37	2.76	0.02	L011	713609	4568721	Mdcl	65	0.03	1.49	1.12	144
714788 4586020 Mach 61 0.18 1.01 1.17480 4566819 Mach 95 0.02 1.17 0.01   714788 4586020 Mach 61 0.08 1.18 1.18 1.10 7.17480 4566819 Mach 97 0.00 1.61 2.09   714013 4586020 Mach 55 0.08 0.24 1.52 2.01 1.020 7.17480 4566802 Mach 97 0.00 2.61 0.02 1.61 0.00 2.51 1.44 0.02 1.61 0.00 2.51 1.44 0.02 0.04 1.75 0.02 0.03 0.02 1.61 0.00 2.51 1.44 0.02 0.04 1.75 0.04 1.75 0.04 1.75 0.04 1.75 0.04 1.75 0.04 1.75 0.04 1.75 0.04 1.75 0.04 1.75 0.04 1.75 0.04 1.75 0.04 1.75 0.04 1.75<	1030	715126		Mdc	95	0.03	1.96	0.23	0.07	L014	721978	4571396	Mdci	88	0.08	2.53	0.73	0.29
714568 4586290 Mede 61 0.08 0.28 1.78 LO19 714586 4586290 Med 97 0.00 1.61 2.09   7140303 4586259 Med 55 0.98 0.28 1.23 2.15 1.09 0.09 1.32 0.09 1.02 717271 4567518 Med 98 0.04 1.74 0.03 1.72 0.09 1.00 0.09 1.29 0.00	1034	714785		Mdcl	42	0.10	0.18	0.88	1.64	L015	716346	4567335	Mdcl	95	0.02	1.72	0.17	0.07
714013 45868555 Mdcl 55 0.08 0.94 1.22 2.15 1.020 716491 4567810 Mdcl 97 0.01 2.61 0.28   713038 46615635 Mdcl 51 0.95 0.51 1.02 1.1737 4567810 Mdcl 97 0.04 0.88 1.09 0.04 0.89 1.09 0.04 0.89 0.09 0.04 0.89 0.09 0.04 0.89 0.09 0.04 0.89 0.09 0.04 0.89 0.09 0.04 0.89 0.09 0.04 0.89 0.09 0.04 0.09 <td< td=""><td>1035</td><td>714568</td><td></td><td>Mdcl</td><td>61</td><td>0.08</td><td>0.83</td><td>1.76</td><td>1.78</td><td>L019</td><td>717485</td><td>4566819</td><td>Mdcl</td><td>97</td><td>0.00</td><td>1.61</td><td>2.09</td><td>0.07</td></td<>	1035	714568		Mdcl	61	0.08	0.83	1.76	1.78	L019	717485	4566819	Mdcl	97	0.00	1.61	2.09	0.07
179038 4660058 61 0.96 0.53 1.23 179138 4660058 MAC 71 0.01 0.02 17131 4660928 MAC 71 0.01 0.03 1.13 4660928 MAC 98 0.04 0.08 2.94   173203 4667589 MAC 69 0.08 1.24 1.02 1.03 1.1412 4569857 MAC 1.04 0.08 1.51   173208 4667936 MAC 480 0.02 1.24 1.05 1.1412 4569857 MAC 9.9 0.07 1.51   1721510 AG 460 0.02 1.23 2.04 1.02 1.1412 4569857 MAC 1.04 0.05 1.01 0.02 1.141 1.03 1.141 0.03 1.141 0.03 1.141 0.03 1.141 0.03 1.141 0.03 0.03 1.141 0.03 0.03 1.141 0.03 0.04 0.08 0.07 1.141 <td< td=""><td>1037</td><td>714013</td><td>_</td><td>Mdcl</td><td>55</td><td>0.08</td><td>0.94</td><td>1.52</td><td>2.15</td><td>L020</td><td>716949</td><td>4567035</td><td>Mdcl</td><td>97</td><td>0.01</td><td>2.61</td><td>0.28</td><td>0.00</td></td<>	1037	714013	_	Mdcl	55	0.08	0.94	1.52	2.15	L020	716949	4567035	Mdcl	97	0.01	2.61	0.28	0.00
173263 4567594 Mach 71 0.11 0.90 2.51 1.44 LO31 713262 A66822 Mach 92 0.04 1.74 0.21   73337 4567595 Mach 89 0.04 1.54 1.29 71474 456802 Mach 60 1.74 0.05   72085 487046 Mach 88 0.04 1.24 0.05 0.05 0.05 0.07 1.16 0.06 0.07 1.16 0.06 0.07 1.16 0.06 0.07 1.16 0.06 0.07 1.16 0.06 0.07 0.06 0.05 0.06 0.07 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.06 0.07 0.06 0.06 0.07 0.07 0.06 0.09 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07 0.07	1042	719038	$\overline{}$	Mdcl	51	0.96	0.53	1.32	0.98	L023	717371	4567815	Mdcl	86	0.04	0.88	2.94	0.07
713373 4567956 Mach 55 0.08 1.54 1.22 2.00 1.039 714412 4568657 Math 40 1.44 0.06 1.51   725160 4568956 Mach 88 0.04 1.22 4.85 0.04 1.050 71378 45788007 Math 50 0.05 0.02 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03	3053	713263		Mdcl	7.1	0.11	0.00	2.51	1.44	L031	713787	4566923	Mdcl	92	0.04	1.74	0.21	0.12
720286 450466 Mdd 88 0.46 1.29 4.85 0.47 1.050 713779 4570827 Mdd 25 0.05	1062	713373		Mdcl	59	0.08	1.54	1.32	2.00	L039	714412	4569857	Mdlt	40	1.44	0.69	1.51	2.18
721510 456990 Med 49 0.22 0.55 3.57 L.074 713768 456900 Med 59 0.07 1.16 0.76   720390 4571010 Med 89 0.02 1.84 1.02 L.092 721897 4571849 Med 26 0.02 1.17 0.24   720380 4571014 Med 89 0.02 1.32 0.15 1.69 1.097 721897 Med 26 0.00 0.49 0.90   720380 4571040 Med 82 0.10 1.32 0.15 1.69 1.42 1.69 1.42 1.69 1.42 1.69 1.42 1.69 1.42 1.69 1.42 1.69 1.42 1.69 1.42 1.69 1.42 1.69 1.43 1.61 1.44 1.69 1.43 1.61 1.44 1.69 1.43 1.14 1.44 1.69 1.44 1.69 1.43 1.14 1.44 1.44	6901	720885	_	Mdu	88	0.46	1.29	4.85	0.47	L050	713757	4570827		25	0.62	0.95	0.56	4.03
7202050 4571010 Mdcl 69 0.02 1.84 0.26 L092 72183 4571843 Mdcl 65 0.02 1.71 0.24   7202050 4571370 Mdcl 69 0.78 1.18 1.12 0.46 L097 721843 4571897 Mdcl 65 0.05 1.71 0.04   720750 457130 Mdcl 62 0.10 1.32 1.06 1.42 0.03 0.03 0.03 0.04 0.03 0.03 0.03 0.04 0.03 0.03 0.04 0.03 0.03 0.04 0.03	K001	721510		Mdcl	49	0.22	0.55	2.53	3.57	L074	713768	4569007		59	0.07	1.16	0.76	1.31
720250 4571370 Mdel 66 0.78 1.68 1.12 0.46 L.097 721843 Mdel 26 0.57 0.49 0.90   720356 4571345 Mdel 62 0.10 1.32 0.16 1.69 721843 Mel 60 0.78 0.19 0.14 0.34 0.78	900X	720990	7	Mdci	89	0.02	1.84	0.26	0.22	L092	721297	4571843	Mdcl	65	0.02	1.71	0.24	0.95
720360 4571945 Mdcl 44 0.06 1.32 0.15   720755 4571730 Mdcl 62 0.10 1.36 1.06   720730 4572860 Mdcl 83 0.10 2.09 0.19   721340 4572855 Mdcl 32 0.08 1.40 0.59   721340 4572855 Mdcl 53 0.08 1.40 0.59   721340 4572855 Mdcl 42 0.28 1.18 0.92   71365 4573975 Mdcl 51 0.15 0.20 1.18   71365 4570300 Mdtl 51 0.15 0.20 1.18   71365 4560915 Mdcl 55 1.45 2.53 0.69   718280 4561800 Mdcl 96 0.01 1.23 0.15   718280 456700 Mdcl 96 0.02 1.43 0.15   718380 4568680 Mdcl 93	K010	720250	_	Mdcl	69	0.78	1.68	1.12	0.46	L097	721843	4571987	Mdci	26	0.57	0.49	0.90	3.86
720755 4571730 Mdcl 62 0.10 1.36 1.06   720730 4572560 Mdcl 83 0.10 2.09 0.19   721340 4572835 Mdcl 32 0.09 1.43 0.11   7213420 4572835 Mdcl 53 0.08 1.40 0.59   721300 4573975 Mdcl 51 0.15 0.20 1.18   713635 4570300 Mdtl 51 0.15 0.20 1.18   713635 4569915 Mdcl 51 0.15 0.20 1.18   713636 4569915 Mdcl 55 1.45 2.53 0.69   718280 4567980 Mdcl 96 0.01 1.23 0.11   718280 456700 Mdcl 96 0.02 1.43 0.15   718380 456700 Mdcl 98 0.02 1.43 0.15   716030 4568680 Mdcl 93 <	K014	720360		Mdcl	44	0.06	1.32	0.15	1.69									
720730 4572560 Mdcl 83 0.10 2.09 0.19   721340 4572835 Mdcl 32 0.09 1.43 0.11   721420 4572870 Mdcl 53 0.08 1.40 0.59   721300 4573375 Mdcl 42 0.28 1.18 0.92   713635 4570300 Mdt 51 0.05 0.20 1.18 0.92   713635 4569915 Mdcl 31 0.07 0.77 0.58   713636 A569916 Mdcl 55 1.45 2.53 0.69   718280 A56800 Mdcl 56 0.01 0.89 0.12   718280 456700 Mdcl 96 0.01 1.23 0.11   718380 456700 Mdcl 95 0.02 1.43 0.15   717500 4571040 Mdcl 93 0.02 1.75 0.14   71740 457186 Mdcl	K021	720755		Mdcl	62	0.10	1.36	1.06	1.42									
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721420 4572700 Mdcl 53 0.08 1.40 0.59   721300 4573975 Mdcl 42 0.28 1.18 0.92   713635 4570300 Mdt 51 0.15 0.20 1.18   713745 4569915 Mdcl 31 0.07 0.77 0.58   718170 4568600 Mdcl 55 1.45 2.53 0.69   718280 456790 Mdcl 96 0.01 1.23 0.11   718380 456720 Mdcl 95 0.02 1.43 0.15   718380 456700 Mdcl 95 0.02 1.43 0.15   717590 457198 Mdcl 98 0.02 1.43 0.15   717500 4571040 Mdcl 93 0.02 1.75 0.26   717440 457130 Mdcl 97 0.01 1.18 0.12   717794 457185 Mdcl 97 0.0	K030	721340	4572835	Mdcl	32	0.09	1.43	0.11	2.91									
721300 4573975 Mdcl 42 0.28 1.18 0.92   713635 4570300 Mdlt 51 0.15 0.20 1.18   713745 4569915 Mdcl 31 0.07 0.77 0.58   71820 4567980 Mdcl 70 0.10 0.89 0.12   71822 4567705 Mdcl 96 0.01 1.23 0.11   718380 4567200 Mdcl 95 0.02 1.43 0.15   717590 4571980 Mdcl 98 0.02 1.43 0.15   717500 4571040 Mdcl 93 0.02 1.75 0.25   717500 457130 Mdcl 97 0.01 1.22 0.14   717940 457188 Mdcl 97 0.01 1.18 0.12   717940 4570815 Mdcl 97 0.01 1.18 0.12   717790 457186 Mdcl 97 0	(031	721420	4572700	Mdcl	53	0.08	1.40	0.59	1.68									
713635 4570300 Mdlt 51 0.15 0.20 1.18   713745 4569915 Mdcl 31 0.07 0.77 0.58   718170 4568900 Mdcl 55 1.45 2.53 0.69   718280 4567980 Mdcl 70 0.10 0.89 0.12   718225 4567705 Mdcl 94 0.02 1.30 1.18   718380 4567200 Mdcl 95 0.02 1.43 0.15   717590 456700 Mdcl 98 0.02 1.43 0.15   71750 4571980 Mdcl 98 0.02 1.75 0.25   71750 4571040 Mdcl 93 0.03 0.10 3.60   71740 457186 Mdcl 97 0.01 1.22 0.14   717940 4570815 Mdcl 97 0.01 1.18 0.12   717790 4571465 Mdcl 97 0	K038	721300	4573975	Mdcl	42	0.28	1.18	0.92	2.77									
713745 4569915 Mdcl 31 0.07 0.77 0.58   718170 4568600 Mdcl 55 1.45 2.53 0.69   718280 4567880 Mdcl 70 0.10 0.89 0.12   718225 4567705 Mdcl 94 0.02 1.30 0.11   718380 4567200 Mdcl 95 0.02 1.43 0.15   717590 456700 Mdcl 98 0.02 1.43 0.15   717500 456860 Mdcl 98 0.02 1.75 0.25   717500 457130 Mdcl 93 0.30 0.10 3.60   71740 457130 Mdcl 97 0.01 1.22 0.14   717940 4570815 Mdcl 97 0.01 1.18 0.12   717790 4571465 Mdcl 97 0.01 0.90 0.14	K046	713635	4570300	Mdlt	51	0.15	0.20	1.18	1.44									
718170 4568600 Mdcl 55 1.45 2.53 0.69   718280 4567980 Mdcl 70 0.10 0.89 0.12   718255 4567705 Mdcl 96 0.01 1.23 0.11   718380 4567200 Mdcl 95 0.02 1.43 0.15   717590 4571980 Mdcl 98 0.02 1.75 0.25   717500 4571040 Mdcl 93 0.30 0.10 3.60   717500 4571300 Mdcl 97 0.01 1.22 0.14   717500 457188 Mdcl 97 0.01 1.12 0.13   717940 4570815 Mdcl 97 0.01 1.18 0.12   717790 4571465 Mdcl 97 0.01 0.90 0.14	K050	713745	4569915	Mdcl	31	0.07	0.77	0.58	3.02									
718280 4567980 Mdcl 70 0.10 0.89 0.12   718225 4567705 Mdcl 96 0.01 1.23 0.11   718380 4567260 Mdcl 94 0.02 1.30 1.18   718380 4567000 Mdcl 95 0.02 1.43 0.15   717590 4571980 Mdcl 98 0.02 1.75 0.25   717500 4571040 Mdcl 93 0.30 0.10 3.60   717400 4571300 Mdcl 97 0.01 1.22 0.14   717940 457186 Mdcl 97 0.01 1.18 0.12   717940 4570815 Mdcl 97 0.01 1.18 0.12   717790 4571465 Mdcl 97 0.01 0.90 0.14	K054	718170	4568600	Mdcl	55	1.45	2.53	0.69	1.02									
718225 4567705 Mdcl 96 0.01 1.23 0.11   718380 4567260 Mdcl 94 0.02 1.30 1.18   718380 4567000 Mdcl 95 0.02 1.43 0.15   717590 4571980 Mdcl 98 0.02 1.75 0.25   717500 4571040 Mdcl 97 0.08 1.66 1.68   71740 4571300 Mdcl 97 0.01 1.22 0.14   717940 457186 Mdcl 97 0.01 1.18 0.12   717740 4570815 Mdcl 97 0.01 1.18 0.12   717740 457186 Mdcl 97 0.01 0.10 0.12	K057	718280	4567980	Mdcl	70	0.10	0.89	0.12	0.30									
718380 4567260 Mdcl 94 0.02 1.30 1.18   718380 4567000 Mdcl 95 0.02 143 0.15   717590 4571980 Mdcl 98 0.02 1.75 0.25   716030 4568680 Mdtl 93 0.30 0.10 3.60   717500 4571040 Mdcl 97 0.01 1.22 0.14   717200 4571585 Mdcl 97 0.01 1.12 0.13   717940 4570815 Mdcl 97 0.01 1.18 0.12   717790 4571465 Mdcl 97 0.01 1.18 0.12	K058	718225	4567705	Mdcl	96	0.01	1.23	0.11	0.04									
718380 4567000 Mdcl 95 0.02 143 0.15   717590 4571880 Mdcl 98 0.02 1.75 0.25   716030 4568680 Mdcl 93 0.30 0.10 3.60   717500 4571040 Mdcl 97 0.01 1.22 0.14   717440 4571585 Mdcl 97 0.01 1.22 0.13   717940 4570815 Mdcl 97 0.01 1.18 0.12   717790 4571465 Mdcl 97 0.01 1.18 0.12	K060	718380	4567260	Mdcl	94	0.05	1.30	1.18	0.15									
717590 4571980 Mdcl 98 0.02 1.75 0.25   716030 4568680 Mdt 93 0.30 0.10 3.60   717500 4571040 Mdcl 97 0.01 1.22 0.14   717200 4571585 Mdcl 97 0.01 1.22 0.13   717940 4570815 Mdcl 97 0.01 1.18 0.12   717790 4571465 Mdcl 97 0.01 1.18 0.12	K061	718380	4567000	Mdcl	95	0.02	1.43	0.15	0.05									
716030 4568680 Mdlt 93 0.30 0.10 3.60   717500 4571040 Mdcl 97 0.08 1.66 1.68   71740 4571300 Mdcl 97 0.01 1.22 0.14   717200 4571585 Mdcl 97 0.01 1.18 0.13   717940 4570815 Mdcl 97 0.01 1.18 0.12   717790 4571465 Mdcl 97 0.01 0.90 0.14	K071	717590	4571980	Mdcl	98	0.02	1.75	0.25	0.05									
717500 4571040 Mdcl 97 0.08 1.66 1.68   717440 4571300 Mdcl 97 0.01 1.22 0.14   717200 4571585 Mdcl 97 0.01 1.18 0.13   717940 4570815 Mdcl 97 0.01 1.18 0.12   717790 4571465 Mdcl 97 0.01 0.90 0.14	K085	716030		Mdlt	93	0.30	0.10	3.60	0.03									
717440 4571300 Mdcl 97 0.01 1.22 0.14   717200 4571585 Mdcl 44 0.34 0.16 0.13   717940 4570815 Mdcl 97 0.01 1.18 0.12   717790 4571465 Mdcl 97 0.01 0.90 0.14	K109	717500		Mdcl	97	0.08	1.66	1.68	0.04									
717200 4571585 Mdcl 44 0.34 0.16 0.13   717940 4570815 Mdcl 97 0.01 1.18 0.12   717790 4571465 Mdcl 97 0.01 0.90 0.14	K110	717440	$\overline{}$	Mdcl	97	0.01	1.22	0.14	0.03									
717940 4570815 Mdcl 97 0.01 1.18 0.12 717790 4571465 Mdcl 97 0.01 0.09 0.14	K111	717200		Mdcl	44	0.34	0.16	0.13	0.03									
717790 4571465 Mdcl 97 0.01 0.90 0.14	K150	717940		Mdcl	97	0.01	1.18	0.12	0.03									The second secon
	K153	717790		Mdcl	97	0.01	06.0	0.14	0.05									