Appendix 2-11 Homogenization Temperatures of the Fluid Inclusions(1)~(3)

Appendix 2-11 HOMOGENIZATION TEMPERATURE OF FLUID INCLUSIONS (1)

	No. #	NAME		TONGITUDE		LATITUDE			MINERAL	BER	်	SAMPEL (C)	DEVIATION	
	.100		) •	:[[	44	Τ.,	49.03	02-cal v		$\dagger$		3		No inclusions
	673		104	35.34	÷	23		Zon		-			***************************************	inc.
	62		104	6.41		22 ′	7.1 %	ch-qz v	Quartz	-	1	275	39	A 4 4 4 4 5 7 7 8 4 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
OLON OVOOT	m		104 ° 10	25. 4	. 44.0	22 ' 43	22 ' 43.87 "	cal-qz v	Quartz	23 1	173 - 307	257	37	
<u>1</u>	ო	***************************************	104	10 47.73		. 22	22 ' 4. 52 "	v 2p	Ouartz		1	284	77	
ea Ea	က		104 °			22 / 33	. 55	sil zone + qz v		-	1			No inclusions
	دی		104 °			22 ' 5	. 77	milky wht v qz			l			No inclusions
	623			ന		23 ′ 11	. 58	milky wht v qz	Quartz		١	218	21	
	62	***************************************	104 °	10 57.2		21 / 59	. 04	milky wht v qz	Quartz	10   1	178 — 347	291	51	
	67		104 °	10 5	77			milky wht v qz		<del>-</del>	1			No inclusions
	က	***************************************	104 °	:=	44	21 / 38		qz netw in sil ss	Quartz	3	172 - 245	216	31	***************************************
	85		104	1	-	22 ' 20, 65			Quartz	3 1	1	184	11	
	82		104	31.3	* 44	22 / 26	, 26.13 "	milky wht v dz	Ouartz	<del>,</del> -	238 — 284	261	22	***************************************
	673		:	35	44	22 / 2	25.8 "	nilky wht	Ouartz	∔—	13 — 266	235	10	
	673		104	9 40.91	77	22 / 20	65 "	ikv	Ouartz	<del>-</del>	148 199	172	21	***************************************
	67		104	72 73	77	, 66 0		nilky wh:	Duartz	+	00 - 325		7	***************************************
	67		: 🕶	41.82	*	22 / 20	* 149	-	Ouartz	11   2	203 - 298	256	25	***************************************
	67		104 °	9 , 42		22 /	21 %	nilky wht		₹—				No inclusions
	65		104 °	9 44.55		22 , 20	. 65	nilky wht	Quartz	<del>-</del>	; '	169	12	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
L L	6.3		104 °	9 46.36		22 / 19	. 03	ijķ	Quartz	111	174 - 271	218	24	
Geochemical	က		104	67 6		22 ' 24"	2.4 %	nilky wht		<del></del>				No inclusions
rea	က		104	,		22 ' 23	. 23	nilky wht v	Quartz	8	168 - 172	170	64	
	က		104	9 55	×	, 22 ,	23 "	ailky wht v		-	۱			No inclusions
	က		104	,	*	22 ′	23 "	nilky wht			1			
	က		104 °	9 58.18		, 22 30	-	ky wht	Quartz	-	234 - 285	253	23	_
	ന			-	*	, 22		ky wht	Quartz	2 2	П	255	un v⊣	
	က		- "		`	, 23 , 23 ,	2.1 %	milky wht v		$\vdash$	П			No inclusions
	65		104。	10 .9.08	44		. 58	milky wht v	Quartz	-	205 - 352	306	χ. Υ.	
	က	***************************************	104 0	0 10.45	7	22 / 26	22 , 26, 13 "	milky wht	Quartz	.⊽ ∞	1	316	36	
	62		104 °	0 , 10, 91	77		. 32	milky wht	Quartz		222 - 320	280	28	
	62			10 / 12, 27	77		. 65	milky wht v	Quartz		П	171	2	
	-	***************************************	104		44	, 23 ,	18	milky wht csg mono qz			ı			No inclusions
	_		104	7	4	23	14 %	milky wht esg mono qz		-				No inslusions
		***************************************	104	7 45	4	23 /	18	grn copper bearing v qz	Quartz	9	102 - 128	115	100	
DOT	_		104	7 , 43	44	, 23 ,	18	tour-qz v			l			No inclusions
Reconnaissa-			104 °	<sub>Ф</sub>	7	, 23 ,	18	milky wht v gz	Quartz	13 1	51 - 323	233	53	
nce Survey			104	39	44	, 23 ,	18	milky wht mono'v gz	Quartz		262 - 262	252	5	
		orimt Hods	10₫		, 4¢	, 50 ,	. 99	milky wht mono v gz	Quartz	12   1	89 — 232	214	12	
		orint Hoda	104	38	44	, 02	. 57	milky wht mono v qz	Quartz		1	147	. 13	
	•⊷l	Horimt Hodag	104	6 . 45	, 44	, 20 ,	. 26	milky wht mono v qz	Quartz	·	1	164	t-	***************************************
	:	Unegt Uul			44	, 92	111	milky wht mono v qz	Quartz	23   2	١	285	 	
Tsagaan Uula			104 °	35 44	77 ,		18	wht v gz /brec sch		-	1			No inclusions
Uula	10		۰	38 32.16	, 44	53 ' 3	9.91	V 92,	Quartz	-	98 - 150	118	20	
Tsagaan Inta	- 1		Ľ	50 11 05	7 7	Ų,	30	to the an area to	0,:3++	1.	50 208	366	6.	***************************************

Appendix 2-11 HOMOGENIZATION TEMPERATURE OF FLUID INCLUSIONS (2)

					•			DE80705			•													***************************************	************																-	,		
REMARKS		***************************************						88. 7m Worth from		No inclusions									No inclusions								No inclusions	No inclusions					***************************************				No inclusions				No inclusions			***************************************
STANDERD DEVIATION		56	56	54	18	44	84	<del></del> -	61	<del>-</del>	00	18	100	65	- 19	22	40	41	-	42	30	0	14	15	42				14	1.6	17	3	8	4	6	21 ]		15	727	28	_	18	14	16
MEAN OF SAMPEL	(j)	196	182	252	174	172	249	248	238		165	243	251	203	252	230	212	199		278	217	148	173	24.7	183	257			130	D 0 T	173	223	168	147	135	163		185	197	902		168	155	175
RANGE (C)		30 - 292	01 - 301	162 - 343	42 - 204	02 - 255	39 — 354	172 - 380	51 - 329	1		54 — 325	: = :	20 - 320	: ~;	$\frac{02}{2}$	33	10 - 262		21 - 340	1	48 - 148	145 - 195	1	42 - 280	1	-	١	15 — 155	247	. [1	1	İ١	1	ı	١	1	62 - 29	82. — 209	185 - 263	I	40 200	 	ا ئ
				1		-	22 1	• • • •	<del></del>		8	18	<u>-</u> -	12 1	ļ	<del>[</del>	15 1	17	-	-	-		22 1		~~*		-	- 1		0 7	16	+	13 1	~>		15 1			-	28		18	14 1	9
MESSURED MINERAL		Quartz	Quartz	Quartz	Quartz	Quartz	Quartz	Quartz	Ouartz		Ouartz	Ouartz	Ouartz	Quartz	Quartz	Quartz	Quartz	Quartz		Quartz	Quartz	Quartz	Quartz	Quartz	Quartz	Quartz			Quartz	7 Ten 0	Originate	Ouartz	Quartz	Quartz	Quartz	Quartz		Quartz	Quartz.	Quartz	·	Quartz.	Quartz	Quartz.
ROCK NAME		wht msv v qz, ser	wht v qz sulf morph	milky wht qz/limo	milky wht qz/limo	milky wht qz/limo	milky wht qz/limo	lky w	ilky wht v	lky wht v	lky wht v	lky wht v	ht v qz. c	imo ban	imo banded	ilky wht v	ht v qz, c	Ħ	imo brn sil rock	wht v qz. limo	wht v qz	: :	limo blk	little 1	v qz	wht v gz. limo blk subs	sil r./qz netw	bik porous sil r	<b>:</b> •	:	red-wht-orn fint v or	red-wht tint V qz. lino	wht v qz. limo netw		red-gry sil r./qz netw	wht sil r./qz netw	wht sil r./qz netw	wht csg v qz. part limo	/ qz. part	Wht csg v qz. drusy	wht semitrans v qz dr	wht semitrans v qz dr.	wht semitrans v qz limo	ZD
	LATITUDE	22 , 52	44 24 22.18 "	24	24	24. 2	44 ° 24 ′ 22, 99 ″	24 '	44 ° 24 ′ 12.07 ″	44 ° 22 ′ 9.19 ″	23	44 23 34.75	•	24 / 2	44 ° 24 ′ 22.76 ″	9			٥.		, 38	36 14.04	44 ° 38 ′ 44.63 ″	39 3. 37	39 2	40 45.87	38	38 45.95	•	0 44 7 25 04	5 , 67 0	٥	45 949 56.73	° 50′ 9.18	50 33.44	S	5 ° 52′	4 ° 28 ′ 5	7 82 7	4 0 42 ' 1	4	-4	₹	44 ° 25 ′ 26 23 ″
- 1	LONGITUE	14 29 51	57 54.12	58 5.1	57 13.12	۰ ج	o o	55 49.66	ى د	52 50.74	56 2 57	56, 92	, 0 ,	53 15.9	, 23 0	53 15.9	, 0 。	46	9	2 0		20 49.67	105 ° 20 ′ 8,34 ″	2	0 17 / 12 99	17 26.08	•	43 41 96	12.40	0	22 0	52 46.48	52 41.75	52 46 59	05 ° 53	53 10.87	92	ŝ	٠. د	۰,	°.	•	°	٥
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No.		5 DH80601 DU																			Н		H81008 ONH	-	- 3	7		1	H81708 CO	1		┪		H81715 SO								E83110 NO	×	ž
15	- (	呂	46 DB	47 DB	Ħ	呂	ЭН	8	E	S	S	Ħ	Ħ	H	留	82	윒	51 DH	舌	63 H8				-:		_	2 :	ž Ė		77			77 B8			80 H8		2	8	88	22	鋁	87 H8	_

Appendix 2-11 HOMOGENIZATION TEMPERATURE OF FLUID INCLUSIONS (3)

KS			***************************************																										***************************************	***************************************			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										***************************************	
REMARKS										**********	************************	No inclusions			No inclusions	No inclusions	No inclusions		No inclusions		No inclusions	***************************************	No inclusions	***************************************	No inclusions		No inclusions	484444444444444444444444444444444444444		***************************************		No inclusions		No inclusions			No inclusions		No inclusions		No inclusions	No inclusions	No inclusions	
STANDERD DEVIATION		13	12	12	49	6	14	13	10	F-	24		130	26				33		S		3		23	•	2	ē	77	0	11	7		10		15	13	-	16		9		•		
SAMPEL	ဉ		173	1	226	~	*	181	181	251	227		231	238				134		141		163		160		134	025	101	203	161	149		156		201	162		248		124				
KANGE (C)	ì	156 - 196	142 — 192	148 - 158	138 — 262	190 - 221	171 - 213	149 — 204	170 - 202	244 - 258	84			217 - 275	1	1	I	101 - 150	H	136 - 146		161 - 167	1	138 - 195		129 140			209 — 209	150 - 192	15	1	142 - 179	1	180 - 237	140 - 177	l	210 - 260	I	119 - 133	١	ļ		
SEE SEE		21	8	22	цЭ	ഗ	33	12	11	-	┄	<del>.</del> –		٥	-			۲3		7	<u>i</u> -	က		-	-	14	·	- 4	<del>-i</del>	:3	<u>.                                    </u>		Ž	_	13			13		∞	_			
MESSURED		Quartz	Quartz	Quartz	Quartz	Quartz	Quartz	Quartz	Quartz	Quartz	Quartz		Quartz	Quartz				Quartz		Quartz	***************************************	Quartz		Quartz		Quartz	- 1	0.000	Ouartz	Ouartz	Quartz		Quartz		Quartz	Fluorite		Quartz		Quartz			***************************************	
ROCK NAME		wht semitrans v qz limo	v q2	semitrans v qz	semitrans v qz l	csg clean v	Wht-gry semitrans v qz	wht semitrans csg v qz	Whit csg v qz, limo py	wht csg clean v qz	wht esg dr v qz blk sub	wht csg v qz, limo py	wht csg clean v qz	wht semitrans csg v qz	wht semitrans csg v qz	wht v gz limo band	핥	¥B.t	drk brnf sil r.part brec			drk gry-wht sil r.	숙	:	Ä.	wht clean sil r.	orn-red tin	10 10 10 10 10 10 10 10 10 10 10 10 10 1	wht v oz. limo band, by	Wht v dz limo aft sulf			red-gry semitrans v qz	wht v qz, limo grn Cu	wht clean v qz, py morp	red-brn chal gz, fluor	light gry semitrans v qz	wht v qz, limo netw		red-yel sil sint/g vlet	gry sil ls	gry por sil r/qz vlet	wht mdg clean v qz	
	LATITUDE	44 ° 25 ′ 32, 24 ″	44 ° 25 ′ 35.12 ″	44 ° 25 ′ 28.32 ″	44 27 34.32 "	44 ° 26 ′ 58.19 ″	44 ° 24 ′ 58.88 ″	44 ° 26 ′ 55.05 ″	44 ° 27 ′ 4.78 ″	44 ° 29 ′ 0.27 ″	44 ° 27 ′ 8.44 ″	44 ° 27 ′ 30.92 ″	44 27 11.65 "	44 ° 27 ′ 17.14 ″	44 27 18.77 "	44 ° 27 ′ 17.16 ″	44 27 / 10.73	44 ° 28 ′ 26.75 ″	45 31 58.79 "	45 ° 31 ′ 42.55 ″	45 31 19.93 "	45 30 28	30 8.31	45 29 46.41	45 28 39,66	45 22 32.48	45 21 55.48	75 00 1 00 15	45 21 27.44	45 21 20.13 "	45 21 15.35 "	45 ° 10 ′ 47.6 ″	45 ° 10 ′ 34.25 ″	45 ° 10 ′ 20.72 ″	45 0 10 / 24.27	45 ° 17 ′ 5.37 ″	45 ° 16 ′ 13.25 ″	45 15 14.38	45 5 50.97	45 6 13.35 "	45 6 6.72 "	45 ° 10 ′ 44.09 ″	43 ° 51 ′ 39.39 ″	
LUCALIII	LONGITUDE	, 23.99	, 2.05	42.65	36.5	, 28.77	57.56	53.84	, 19.74	45.34	42.47	, 15.27	, 20.6	13 '5	, 10.5	14 32.3	15 22.5	9 45 7.	51 59.	51	50 32.	20	06 50 26.99	20	200	28. 29. 16	06 58 43.21	ئا د ە	57 / 19.11	56 57.08	37.58	36 30.32	, 24.2	37 ' 37.23	47.48	0 44 ' 24.82	41 38.59	° 40 ′ 16.59	54 ' 20.44	6 54 24.81	54 2.74		04 ° 26 ′ 22.75 ″	
וסן מ	NAME	1.	-	Ī	Ā	Ţ	-		7	Ĩ	-	1		<del>-</del>	***	71	-	17	1	4-4;	ersen		Hudak				7					<u>-</u>	=	_	-	7	<b>T</b>		H	1(	)[	1(	1(	
	%. %.	33	119	121	104	102	125	127	132	134	133		137	138		-		101	57	-	57 D	57	2	2	2	2 5	2 6	2 6		9	9		63	-	စ္ပ	79	_	61	-	65		1	-	
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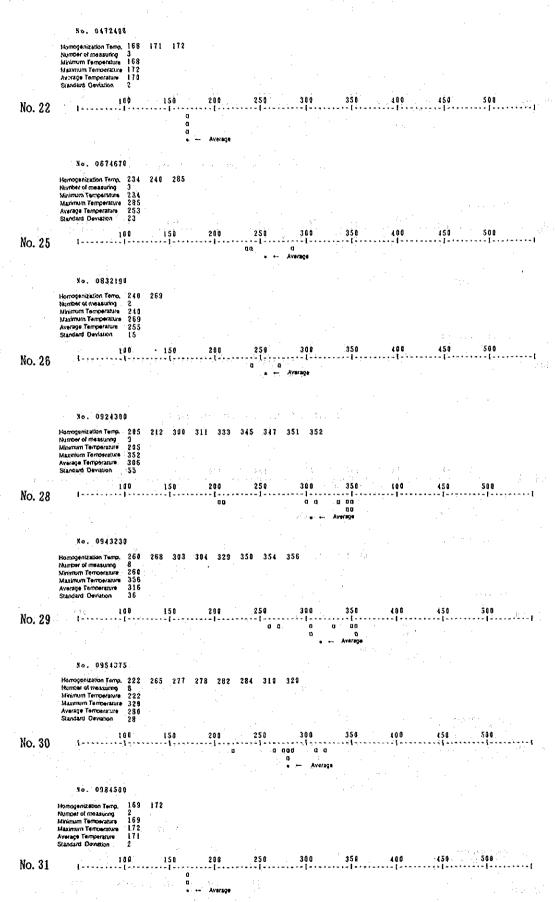
Appendix 2-12 Histograms of Homogenization Temperatures of the Fluid Inclusions (1)~(17)

### Appendix 2-12 Histogram of Homogenization Temperature of Fluid Inclusions (1)

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No. 0263002
                                Homogenization Temp. 152 251 26t 267 268 270 280 231 287 288 302 308 310 318 Number of measuring 14 Minimum Temperature 152 Maximum Temperature 318 Average Temperature 375 Stangard Deviation 39
  No. 3
                                           No. 0470101
                                No. 4
                                           No. 0470204
                                 Homogenezation Temps. 202 217 208 232 240 240 252 255 260 260 273 271 239 300 205 318 221 322 325
   No. 5
                                            No. 0562603
                                  Homogenization Temps. 195 197 199 201 202 204 210 211 218 226 232 245 252 262
Number of measuring 14
Misignum Temperature 195
Maximum Temperature 252
Average Temperature 218
Standard Devision 21
                                           No. 8
                                       proceduration Temp. 178 218 279 298 302 304 310 328 343 347 processor measuring 10 processor temperature 178 processor 178 processor 178 processor 179 proce
                                            160 150 200 250 300 350 108 438 598
  No. 9
                                           No. 0579491
                                Homogenization Temp. 172 230 245
Number of measuring 3
Minimum Temporature 172
Maximum Temporature 155
Average Temporature 115
Standard Deviation 11
  No. 11
                                Homogenization Temo. 172 181 199
Number of measuring 170
Mismum Temperature 170
Average Temperature 184
Standard Deviation 11
                                            So. 0031227
                                          No. 12
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No. 0084038
           Hamogenization Temp. 238 241 281 284
Number of measuring 4
Minimum Temperature 238
Mazemum Temperature 284
Average Temperature 261
Standard Deviation 22
No. 13
                30. 0143759
            Homogenization Temp. 218 222 223 248 266
           Homogenization Temp.
Number of measuring.
Strimmum Temperature.
Average Temperature.
Standard Deviation.
218
2218
2218
2218
2218
2235
235
235
No. 14
                No. 0292068
           Homogenization Temp. 148 169 139
Number of measuring 3
Minimum Temperature 149
Maximum Temperature 199
Avaring Temperature 172
Standard Centation 21
No. 15
                No. 0300775
           Homogenization Temp. 200 201 205 210 242 245 286 296 301 302 305 306 307 312 326 Number of measuring Maximum Temperature 200 Maximum Temperature 328 Average Temperature 277 Standard Deviation 15
                No. 16
          Homogenization Temp. 283 238 238 258 259 260 261 262 265 236 238 Number of measuring II Ministrum Temperature 283 Maximum Temperature 256 Standard Deviation 25 Standard Deviation 25
               tro 150 200 250 300 350
No. 17
                Vo. 0341380
           No. 19
                No. 0381175
           tes 150 200 250 368 350 400 450 500
 No. 20
                                                                      A 2-92
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#### Appendix 2-12 Histogram of Homogenization Temperature of Fluid Inclusions (3)

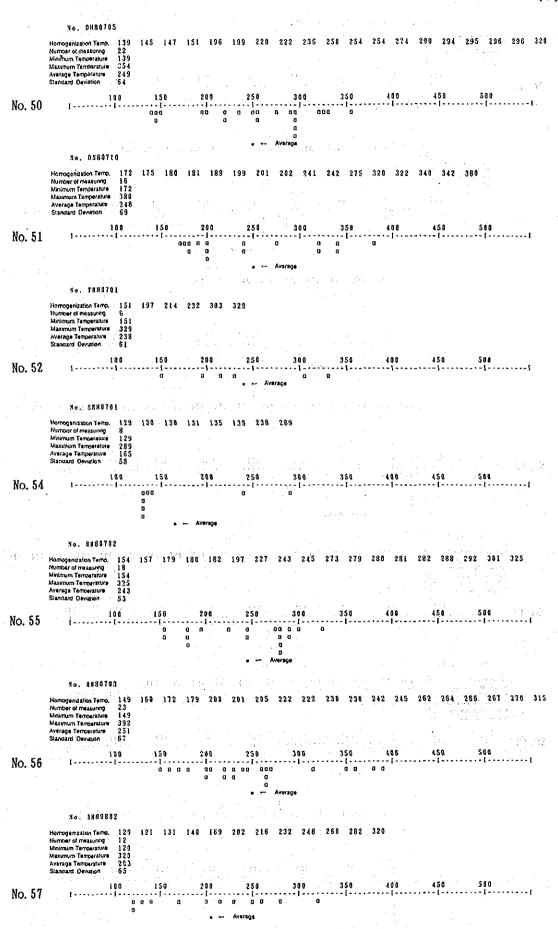


#### Appendix 2-12 Histogram of Homogenization Temperature of Fluid Inclusions (4)

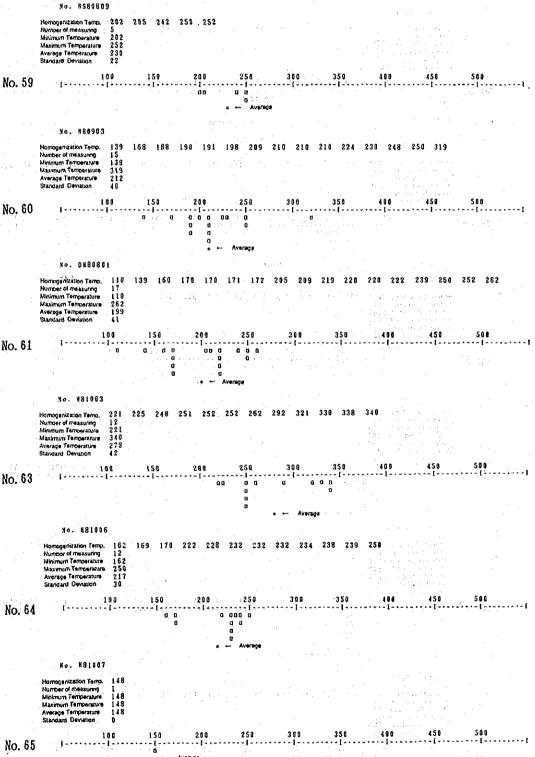
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No. 0570510
                                                             Hamogenization Temp. 192 111 112 117 121 128 Number of measuring 6 Minimum Temperature 192 Maximum Temperature 128 Average Temperature 115 Standard Deviation 8
No. 34
                                                                                         No. 0580501
                                                             | Homogenization Temp. | 151 | 172 | 179 | 199 | 201 | 218 | 219 | 221 | 258 | 280 | 298 | 305 | 323 | Number of rine saturing | 13 | 151 | 151 | 151 | Maximum Temperature | 323 | Avarage Temperature | 323 | 323 | 323 | 324 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 325 | 32
No. 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              No. 0580504
                                                             Homogenitation Temp. 25 2 Number of measuring 1 Minimum Temperature Average Temperature 26 2 Standard Denation 0
No. 37
                                                                                            Xo. XS80501
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# Appendix 2-12 Histogram of Homogenization Temperature of Fluid Inclusions (5) No. 981502 Homogenization Temps, 98 99 106 110 129 131 150 Number of measuring 7 Minimum Temporature 98 Average Temperature 150 Average Temperature 118 Standard Deviation 18 No. 43 Homogasization Terrio. 259 262 264 265 267 268 274 277 283 284 285 287 295 298 Number of measuring 14 Minimum Terriosrature 259 Maximum Terriosrature 298 Average Terriposrature 276 Standard Devistion 12 No. 44 No. D880581 Homogenization Temp. 130 141 159 160 170 179 182 183 267 290 292 Number of Measuring 11 Minimum Temperature 292 Average Temperature 395 Standard Deviation 56 No. 45 No. 0888693 omogenization Temps. [8] 128 139 131 131 132 133 142 151 154 158 216 229 220 222 222 228 241 282 introduced measuring 28 Murrour of messuring 28 Misumum Temperature 101 Maximum Temperature 301 Average Temperature 182 Standard Omistion 56 No. 46 No. 9880604 Homogenization Temp. 162 172 179 181 189 190 242 251 255 256 257 260 261 276 283 283 287 384 321 Number of missionity 21 Ethinimum Temperature 162 Maximum Temperature 343 Average Temperature 252 Standard Devision 54 Homogenization Temp. 142 151 168 162 169 172 172 174 179 180 199 282 284 Number of measuring 13 Minimum Temperature 142 Maximum Temperature 204 Avarage Temperature 174 Standard Oeviation 18 No. 48 No. 9980703 Hamogenization Temo, 102 148 149 149 151 152 152 167 172 220 248 255 Number of measuring 12 National Temberature 102 255 Averago Temberature 255 Averago Temberature 172 Standard Deviation 44 No. 49

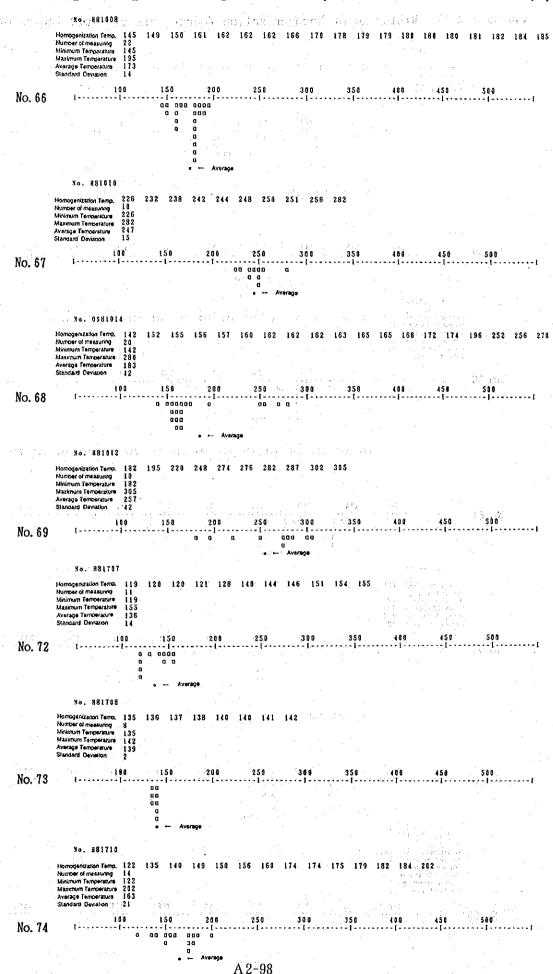
#### Appendix 2-12 Histogram of Homogenization Temperature of Fluid Inclusions (6)



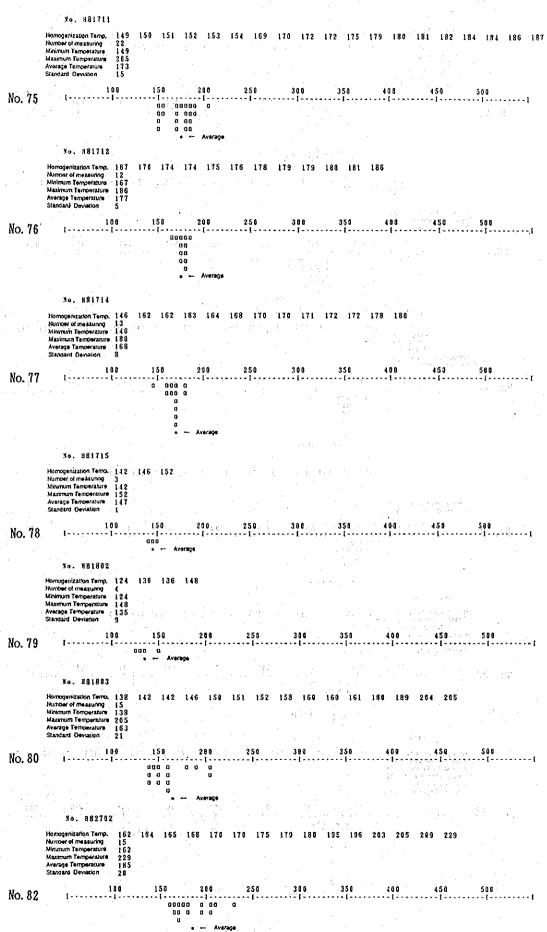
# Appendix 2-12 Histogram of Homogenization Temperature of Fluid Inclusions (7) Homogenization Temps. 139 150 182 189 190 210 223 244 284 297 299 301 310 319 325 362 Number of measuring 16 Minimum Temperature 362 Maximum Temperature 362 Standard Deviation 57 No. 58 No. 8580809 Homogenization Temp. 282 285 242 258 252 No. 59 No. 480903 Homogenization Temp. 139 168 188 190 191 198 209 210 210 210 224 230 248 250 319 Number of measuring 15 Missimum Temperature 139 Maximum Temperature 319 Average Temperature 212 Standard Denation 46 No. 60 No. 0886861 Homografization Temp. | 11 | 139 | 160 | 170 | 171 | 172 | 205 | 209 | 219 | 220 | 222 | 239 | 250 | 252 | 262 | Number of measuring | 17 | Minimum Temperature | 110 | Maximum Temperature | 262 | Average Famperature | 189 | Standard Ownston | 41 No. 61 No. 481003 Homogenization Termo. 221 225 248 251 252 252 262 292 321 330 338 340 Homogerization Temp. 221 Number of measuring 221 Maximum Temperature 340 Average Temperature 273 Standard Deviation 42 a 6 0 u No. 63 No. E81006 Homogenization Femp. 162 169 178 222 228 232 232 232 234 238 239 258 Number of measuring 12 Ninimum Temperature 162 Maximum Temperature 250 Maximum Temperature 217 Standard Oevision 30 No. 64



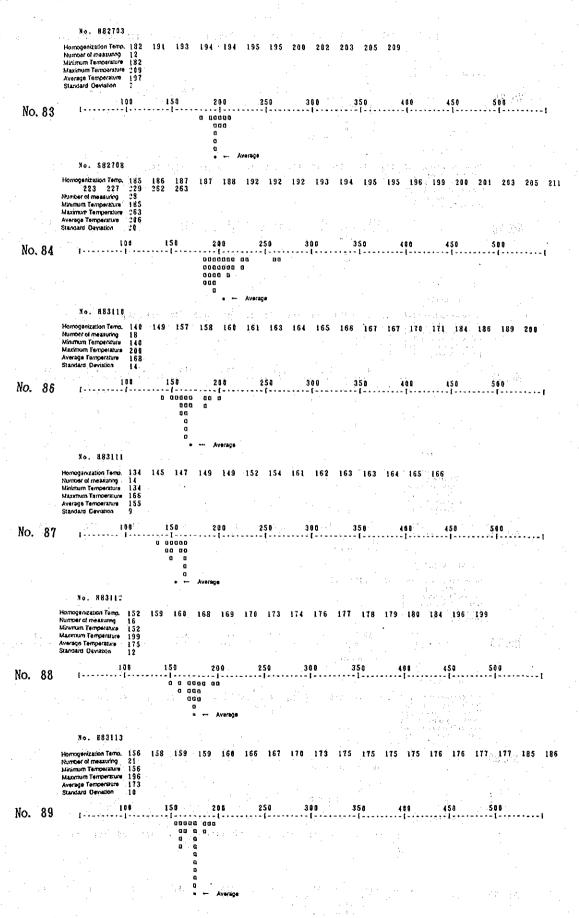
#### Appendix 2-12 Histogram of Homogenization Temperature of Fluid Inclusions (8)



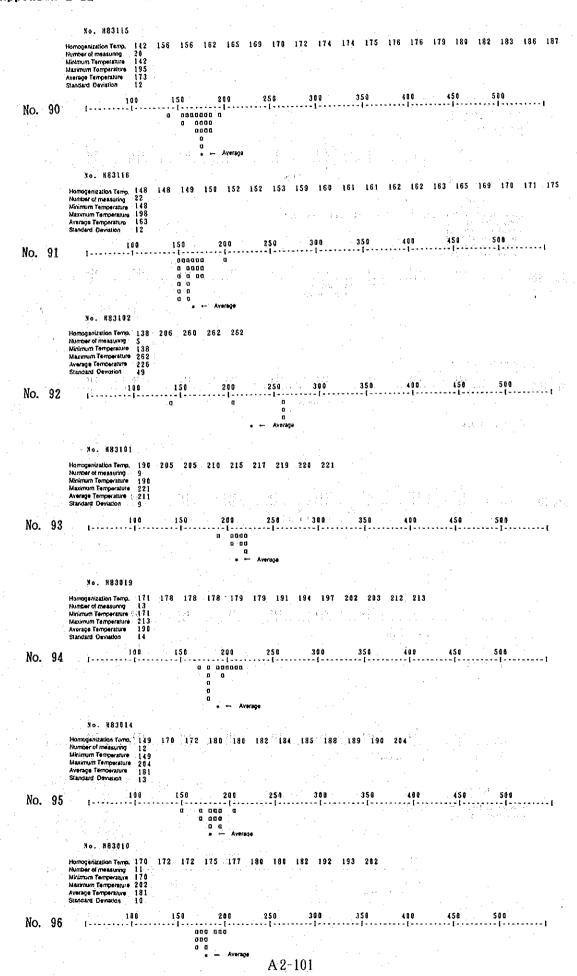
#### Appendix 2-12 Histogram of Homogenization Temperature of Fluid Inclusions (9)



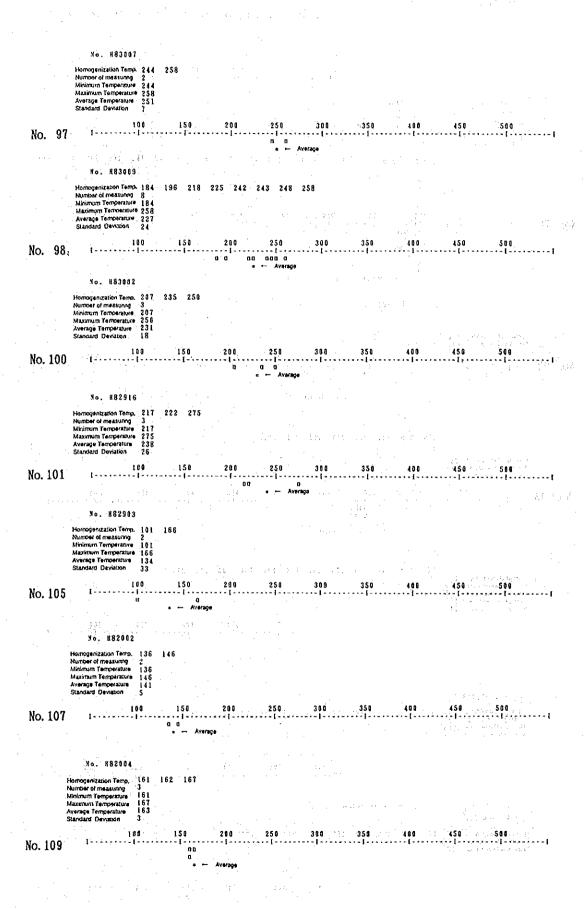
#### Appendix 2-12 Histogram of Homogenization Temperature of Fluid Inclusions (10)



# Appendix 2-12 Histogram of Homogenization Temperature of Fluid Inclusions (11)

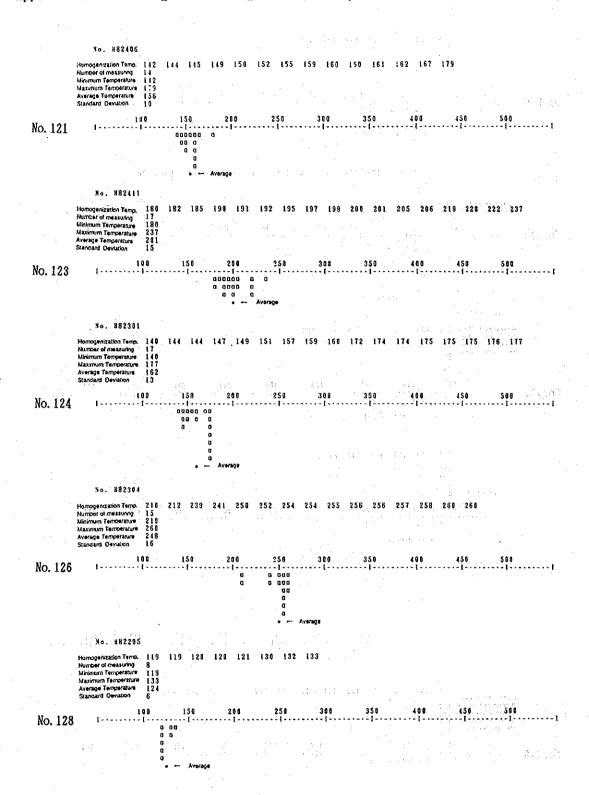


#### Appendix 2-12 Histogram of Homogenization Temperature of Fluid Inclusions (12)

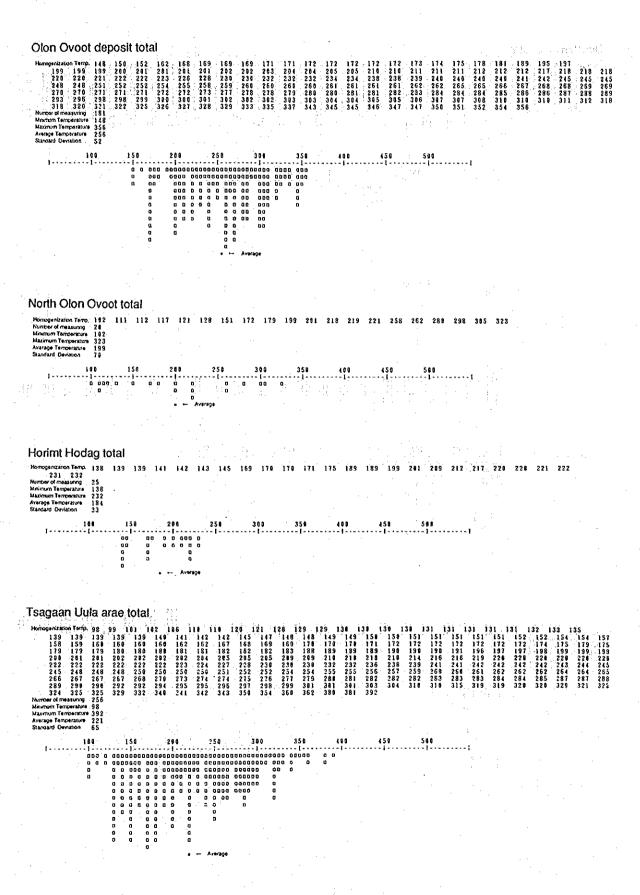


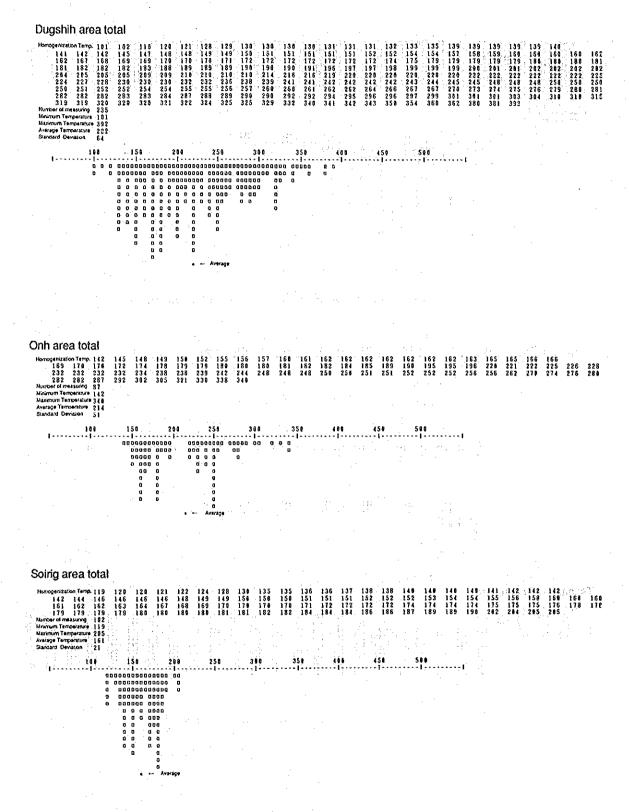
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No. #82007
         Homogenization Temo. 138 139 141 148 167 191 195
Number of measuring 7
Minimum Temperature 138
Maximum Temperature 195
Avarage Temperature 168
Standard Denizion 23
No. 111
            No. #82101
         Homogenization Temo. 129 129 130 132 132 133 134 135 135 135 135 136 138 140
         100 150 200 250 300 350 400 450 500
No. 113
            No. 582104
         Homogeoization Temp. 132 136 139 149 143 187 192 Number of measuring 7 187 192 Maximum Temperature 132 Maximum Temperature 192 Newayo Temperature 193 Standard Covasion 24
        No. 115
            No. #82107
         No. 116
          No. #82108
         Homogenization Temp. 289
         Number of measuring 1893
Minimum Temperature 209
Maximum Temperature 209
Average Temperature 209
Standard Denation 9
No. 117
            No. 182119
         Hampyenization Temps, 158 152 152 154 156 157 157 168 160 162 165 170 192
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Nightymn Tempserature 150
Nightymn Tempserature 150
Nightymn Tempserature 161
Standard Denation 111
                          No. 118
            No. 882111
         No. 119
                                                 A 2-103
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#### Appendix 2-12 Histogram of Homogenization Temperature of Fluid Inclusions (14)



# Appendix 2-12 Histogram of Homogenization Temperature or Fluid Inclusions (15)





## Appendix 2-12 Histogram of Homogenization Temperature or Fluid Inclusions (17)

# North Harmagtai area total 152 152 152 153 154 156 162 162 162 163 163 163 170 170 170 170 170 170 175 175 776 176 176 176 180 180 182 182 182 182 190 191 191 192 192 192 199 199 200 200 200 201 212 213 215 215 216 217 262 262 263 275 149 150 161 162 169 169 175 175 180 189 189 189 196 197 211 211 258 260 162 169 175 189 190 198 212 262 161 168 175 180 188 196 210 258 Sologoi area total

3.	Microscopic Obser	vations and Photon	nicrographs (Thi	n Section)	

#### ABBREVIATION

Act: Actinolite (Hb): Pseudomorph after hornblende

Apt : Apatite Kae : Kaersutite

Au : Augite Kf : K-feldspar

Bt : Biotite Mf : Mafic mineral

(Bt): Pseudomorph after biotite Ms: Muscovite
Cal: Calcite Ne: Nepheline

Cb : Carbonate (01) : Pseudomorph after olivine

Chl: Chlorite Opq: Opaque mineral.

Cly: Clay mineral Ph: Phlogopite

Cv : Cavity Pl : Plagioclase

Ep : Epidote Qz : Quartz
Frg : Fragment Sph : Sphene

Gls: Glass .... Tor: Tourmaline

Go: Goethite Zeo: Zeolite

Hb : Hornblende

A 3-1

(1)

Sample No. : A80901 Locality : Dugshih

Rock name : Rhvolite welded (?) tuff

Observation note:

This specimen is pinkish gray, altered rhyolite welded (?) tuff, with phenocrysts of plagioclase (andesine), quartz and biotite and with altered rock fragments (mainly mudstone). Matrix shows an indistinct micro-eutaxitic foliation, and is made up of flattened glass shards which are perfectly devitrified into minute crystals of quartz and plagioclase. Plagioclase phenocryst is mostly altered to sericite.

(2)

Sample No. : DH80704 : Dugshih Locality Rock name: Meta-gabbro

observation note:

This specimen is dark greenish grey, medium-grained meta-gabbro, showing an ophitic texture. It consists principally of plagioclase (labradorite-andesine), hornblende and opaque mineral. Plagioclase occurs as euhedral prismatic crystals 0.5-1mm in length. Hornblende occurs as anhedral intersertal crystals, about 0.5mm in length, and is partly changed into fibrous actinolite and scaly biotite. Epidote, carbonate minerals and sphene are observed as secondary minerals.

Commence of the second

Sample No.: TH80703 Locality : Dugshih . Dugsmin : Rhyolite Rock name

Observation note:

This specimen is light grey, aphyric rhyolite with sandstone fragments (0.5-0.8mm diameter) and a small amount of phenocryst. Phenocryst minerals mostly smaller than 0.3mm, are mainly of biotite and altered other mafic minerals. Biotite is commonly altered to sericite or is replaced by carbonate minerals. Groundmass consists of fine-grained quartz, and of sericite as secondary minerals.

(4)

Sample No. : A82801

Locality: North Harmagtai Rock name : Meta-gabbro

Observation note:

This specimen is greenish grey, fine-grained meta-gabbro. It consists principally of plagioclase, hornblende (pseodomorph) and epidote and subordinately of actinolite, sphene and quartz. Plagioclase occurs as subhedral to anhedral crystals, up to 0.1mm across. Hornblende occurs as euhedral to subhedral crystals, about 0.1mm across, and is wholly changed to actinolite. Large amount of epidote, 0.1-0.2mm across, and sphene occur as secondary minerals. Quartz and carbonate mineral veinlet are recognized.

(5)

Sample No.: A82901

: North Harmagtai Locality Rock name : Mafic schist Observation notes:

This specimen is greenish grey, mafic schist which has probably been derived from basic tuff. It consists principally of, actinolite plagioclase (oligoclase-albite) and quartz. Actinolite is subhedral,

probably changed from hornmblende (?). Plagioclase is subhedral to anhedral, interstitial between actinolite crystals. Quartz is anhedral interstitial between actinolite and plagioclase crystals, and often broken into subgrains. A small amount of opaque mineral (ilmenite?) occurs, and is partly altered to leucoxene. Quartz and goethite veinlet are recognized.

(6)
Sample No. : A81101
Locality : Olon Ovoot Rock name : Altered basalt

Observation note:

This specimen is dark grey altered basalt with phenocrysts of plagioclase (andesine), olivine (pseudomorph) and apatite, showing an intersertal texture. Plagioclase phenocryst is prismatic, up to 0,2mm in length, and has glass inclusions. Olivine phenocryst is euhedral, up to O. 1mm in length, and is wholly altered to iddingsite and clay minerals. Apatite phenocryst is euhedral, up to 0.1mm in length. Groundmass consists principally of lath-sharped plagioclase, glass and crystallite, and subordinately of opaque minerals.

(7) com a case with (7)
Sample No. : H81011 Locality : Onh Rock name : Granite Observation note:

This specimen is pale yellowish grey, medium-grained granite. It consists of quartz, K-feldspar (perthite), plagioclase (oligoclase), biotite and a small amount of opaque minerals, zircon and apatite. Quartz occurs as anhedral crystals, 0.1-1mm across. K-feldspar occurs as anhedral crystals, 0.1-2mm across, partly with indistinct microcline texture. Quartz and Kfeldspar partly show micrographic texture. Plagioclase occurs as subhedral to anhedral crystals, up to 0.1mm across, associated with quartz and Kfeldspar. Both K-feldspar and plagioclase are partly replaced by sericite crystals.

(8)

Sample No. : A81802 Locality : Soirig

Rock name : Granite porphyry

Observation note:

This specimen is greyish white, medium-grained, granite porphyry with phenocrysts of quartz, plagioclase, K-feldspar, biotite and hornblende. Quartz phenocryst is up to 2mm across, and is often embayed by groundmass. Plagioclase phenocryst is up to 2mm across. K-feldspar phenocryst is anhedral, up to 2mm across, often showing a microcline texture. Both plagioclase and K-feldspar are partly altered to sericite. Hornblende phenocryst is up to 0.5mm in length, showing a distinct cleavage, and partly replaced by sericite. Biotite phenocryst is up to 0.3mm across, commonly destroyed, and partly changed into chlorite. Groundmass consists principally of quartz and K-feldspar and subordinately of plagioclase and biotite.

Sample No. : A81701 Locality : Soirig Rock name : Granite Observation note:

This specimen is brownish grey, medium-grained granite. It consists of

quartz; plagioclase (oligoclase), K-feldspar (orthoclase-perthite), biotite, hornblende and a small amount of opaque minerals, sphene, zircon, apatite and epidote. Quartz occurs as anhedral, up to 2mm across, and is changed into subgrains which show sutured texture. Plagioclase occurs as euhedral to subhedral short prismatic crystals, up to 1.5mm in length. K-feldspar occurs as anhedral interstitial crystals with up to 2mm across between plagioclase and quartz crystals. Both plagioclase and K-feldspar are commonly replaced by anhedral sericite crystals. Biotite occurs as subhedral, up to 0.5mm in length, and is commonly altered to chlorite. Hornblende occurs as euhedral, up to 0.3mm in length.

(10)

Sample No. : A81804
Locality : Soirig
Rock name : Rhyolite
Observation note :

This specimen is purplish dark grey rhyolite with phenocrysts of plagioclase (oligoclase) and quartz. Plagioclase phenocryst is clouded by dusty materials, up to 1mm in length. Quartz phenocryst is up to 0.5mm in length and embayed by groundmass. Groundmass, showing microcrystalline to cryptocrystalline texture, consists of plagioclase, quartz, biotite and a small amount of opaque mineral, sphene, zircon and apatite. Biotite mostly is replaced by sericite.

(11)

Sample No. : A81901
Locality : Sologoi
Rock name : Granophyre
Observation note :

This specimen is light grey granophyre with a small amount of K-feldspar (orthoclase-perthite) and plagioclase phenocrysts. K-feldspar phenocryst is euhedral to subhedral short prismatic crystals, up to 0.8mm in length, sometimes showing a Carlsbad twinning. Groundmass, mostly smaller than 0.1mm, consists principally of K-feldspar and quartz, conspicuously a micrographic intergrowth, and subordinately of biotite and plagioclase. Biotite is partly altered to chlorite.

(12)

Sample No. : A82301 Locality : Sologoi

Rock name : Nepheline dolerite:

Observation note:

This specimen is dark grey nepheline dolerite, with plagioclase phenocrysts. Plagioclase (labradorite) phenocryst is euhedral prismatic crystal, 0.5-1mm in length. Groundmass shows an intersertal texture and consists principally of nepheline, glass and opaque minerals and subordinately of biotite and amphibole. Nepheline is anhedral crystal up to 0.5mm across, and commonly replaced by carbonate minerals. Biotite is subhedral crystal up to 0.3mm across, and considerably is altered to chlorite. Amphibole is euhedral to subhedral crystal up to 0.3mm across, and wholly changed into opacite.

(13)

Sample No. : A82302 Locality : Sologoi Rock name : Granite Observation note :

This specimen is greyish white, medium-grained granite with a

cataclastic deformation. It consists of K-feldspar (orthoclasemicroperthite), quartz, plagioclase (oligoclase), muscovite, tourmaline and a small amount of opaque mineral and apatite. Quartz occurs as anhedral crystals, up to 0.5mm across, and is changed into subgrains which show sutured texture. K-feldspar occurs as anhedral crystals, up to 0.5mm across. Plagiociase occurs as subhedral to anhedral crystals, up to 0.3mm across, and is commonly altered to sericite. Muscovite occurs as euhedral. to subhedral crystals, up to 0.5mm in length. Tourmaline occurs as short prismatic euhedral crystals, :0.3-0.8mm in length.

(14)

Sample No. : A90101

Locality : Tahilga Uula

Rock name : Dacite Observation note:

This specimen is grey dacite with phenocrysts of corroded quartz, plagioclase, biotite and apatite. Quartz phenocryst is up to 5mm in length. Plagioclase phenocryst is up to 0.8mm in length. Biotite phenocryst is up to 0.3mm in length. Apatite phenocryst is up to 0.5mm in length. Groundmass, showing cryptocrystalline texture, consists of quartz, plagioclase, apatite and a small amount of opaque mineral and zircon. Sericite is observed as secondary minerals.

(15)

Sample No. : A90103

: Tahilga Uula Locality

Rock name : Diorite Observation note:

This specimen is grey, medium-grained diorite, showing a. holocrystalline texture. It consists principally of plagioclase and hornblende (or kaersutite) and subordinately quartz, biotite (pseudomorph), sphene, epidote, chlorite and actinolite. Plagioclase occurs as euhedral prismatic clouded crystals, o. 2-0. 5mm in length. Hornblende occurs as anhedral crystals, interstitial between plagioclase crystals, 0.3-0.5mm across and partly changed into actinolite or epidote. Biotite occurs as subhedral crystals, up to 0.2mm, and is wholly replaced by chlorite.

(16)

Sample No. : A90104

: Tahilga Uula Locality

Rock name : Granite Observation note:

This specimen is pinkish white, coarse-grained granite with a cataclastic deformation. It consists of quartz, plagioclase (oligoclase), Kfeldspar (orthoclase-perthite), biotite and a small amount of muscovite (?), opaque mineral, zircon and apatite. Quartz occurs as anhedral, up to 8mm across, and is changed into subgrains which show sutured texture. Plagioclase occurs as euhedral to subhedral short prismatic crystals, up to 2mm in length. K-feldspar occurs as anhedral interstitial crystals with up to 5mm across between quartz and plagioclase crystals. Both plagioclase and K-feldspar are commonly replaced by sericite crystals. Biotite occurs as subhedral, up to 0.5mm in length, and is partly altered to chlorite.

(17)

Sample No. : A81501 Locality: Tsagaan Uula Rock name : Andesite Observation note:

This specimen is brownish grey andesite with phenocrysts of plagioclase, augite, olivine (pseudomorph) and apatite. Plagioclase phenocryst is prismatic, up to 3mm in length. Augite phenocryst is short prismatic, up to 1mm in length, and embayed by groundmass. Olivine phenocryst is euhedral, up to 0.5mm in length, and is wholly altered to iddingsite. Apatite phenocryst is euhedral up to 0.5mm in length. Groundmass, showing a hyalopilitic texture, consists principally of lath-shaped plagioclase, glass and crystallite and subordinately of apatite, augite and opaque mineral. Carbonate mineral, goethite and quartz veinlets are recognized.

(18)

Sample No. : A81502

Locality: Tsagaan Uula Rock name: Meta-gabbro Observation note:

This specimen is dark greenish grey, medium-grained meta-gabbro, showing an ophitic texture. It consists principally of plagioclase (labradorite) and hornblende and subordinately augite. Plagioclase occurs as euhedral prismatic crystals, 0.5-1mm in length. Hornblende occurs as anhedral crystals, up to 0.5mm across, and is partly changed into actinolite and scaly biotite. Sphene is observed as secondary mineral.

(19)

Sample No. : A82503
Locality : Undur Uda
Rock name : Tonalite
Observation note:

This specimen is greenish white, medium-grained gneissose tonalite. It consists of quartz, plagioclase and muscovite with accessory biotite, zircon, apatite and opaque mineral. Quartz is anhedral crystal, up to 1.5mm across. Plagioclase is primary subhedral crystal, up to 2.5mm in length, but it is considerably distorted and deformed. Muscovite is euhedral to subhedral crystal, up to 0.8mm in length. Biotite is subhedral crystal, up to 0.5mm in length and commonly altered to chlorite.

(20)

Sample No. : A82504 Locality : Undur Uda Rock name : Porphyrite

Observation note:

This specimen is light grey porphyrited It consists principally of plagioclase and subordinately of quartz and apatite. Plagioclase occurs as euhedral to subhedral, up to 1mm in length, and partly shows porphyritic and spheluritic texture. Quartz occurs as subhedral to anhedral, 0.1-0.2mm across. Apatite occurs as euhedral to subhedral, up to 0.1mm in length.

(21) Sample No. : 0H70503

Sample No. : OH70503
Locality : Olon Ovoot
Rock name : Nepheline basalter

Observation of the passing passing

Observation note:

This specimen is greenish grey nepheline basalt with olivine (pseudomorph), augite (Ti-augite) and nephline phenocrysts. Olivine phenocryst is up to 0.5mm in length, and is wholly changed into iddingsite and clay mineral. Augite phenocryst is up to 0.2mm in length. Nepheline phenocryst is up to 0.2mm in length. Groundmass consists principally of

augite and subordinately of phlogopite. Large amount of zeolite are recognized as secondary mineral (?).

(22) Sample No. : OS62403 Locality : Olon Ovoot Rock name : Meta-gabbro Observation note:

This specimen is dark greenish grey, medium-grained meta-gabbro, showing hollocrystalline texture. It consists principally of plagioclase (labradorite-andesine), hornblende and opaque mineral. Plagioclase occurs as subhedral to anhedral crystals, up to 1mm across. Hornblende occurs as anhedral crystals, up to 1mm across, and is partly replaced by actinolite. A small amount of opaque mineral (ilmenite?) occurs, and is partly altered to leucoxene. Large amount of epidote, 0.1-0.3mm across, occurs as secondary minerals.

Miller Berner Sample No. : OA62904 Locality : Olon Ovoot Rock name: : Fine-sandstone

Observation note:

10 to 10 to

This specimen is greenish grey fine-sandstone. It consists principally of quartz and a small amount of muscovite and opaque mineral. These grains are poorly sorted and subrounded. Fine-sandstone is undergone chlorite and sericite alteration.

(24)

Sample No. : 0124750 Locality : Olon Ovoot Rock name: : Quartz gabbro

Observation note:
This specimen is greenish grey quartz gabbro, showing a hollocrystalline texture. It consists principally of plagioclase and hornblende and subordinately of quartz and opaque mineral. Plagioclase occurs as subhedral crystals, up to 0.8mm in length. Hornblende occurs as anhedral crystals, up to 1mm across, and is partly changed into fibrous actinolite. Quartz occurs anhedral crystals, up to 0.5mm across. Opaque mineral occurs as euhedral to subhedral, up to 0.3mm in length. Large amount of epidote, up to 0.3mm across, occurs as secondary mineral.

(25)

Sample No. : 0H70504 Locality : Olon Ovoot

Rock name : Nepheline basalt

Observation note:

This specimen is grey nepheline basalt with augite, apatite, opaque mineral, biotite and phlogopite phenocrysts. Augite phenocryst is up to 2mm in length, and is embayed by groundmass. Apatite phenocryst is up to 0.8mm in length. Biotite phenocryst is up to 0.2mm in length, and is commonly surrounded by phlogopite. Phlogopite phenocryst is up to 0.2mm across. Groundmass consists of nepheline, K-feldspar and augite, mostly smaller than 0.05mm. Large amount of epidote, up to 0.06mm across, occurs as secondary mineral.

(26)

Sample No. : OS70403 Locality : Olon Ovoot Rock name : Meta-quartz diolite
Observation note :

This specimen is greenish grey, fine-grained meta-quartz diolite. It consists of quartz, plagioclase, opaque mineral and K-feldspar. Quartz occurs as anhedral, up to 0.3mm across. Plagioclase occurs as subhedral, up to 0.5mm in length. K-feldspar occurs as anhedral, up to 0.3mm across. Quartz occurs as anhedral, up to 0.3mm across. Large amount of chlorite and epidote occurs as secondary mineral interstitially among plagioclase, K-feldspar and quartz crystals.

(27)

Sample No.: 0044300 Locality: Olon Ovoot

Rock name : Tourmaline rock

Magania adampe

Observation note:

This specimen is greenish brown tourmaline rock. It consists principally of tourmaline and subordinately of quartz, plagioclase and K-feldspar. Tourmaline occurs as euhedral acicular crystal aggregate. Plagioclase occurs as subhedral to anhedral crystals, up to 0.4mm across. K-feldspar occurs as anhedral crystals, up to 0.5 across. Quartz occurs as anhedral crystals, up to 0.3mm across. This rock is injected by goethite, quartz and carbonate veinlets.

(28)

Sample No.: 0290675
Locality: Olon Ovoot
Rock name: Meta-tonalite

Algorithms of the forms

Observation note:

This specimen is greyish brown, medium-grained meta-tonalite. It consists principally of plagioclase, quartz and opaque mineral. Plagioclase occurs as euhedral to subhedral crystals, up to 0.8mm in length. Quartz occurs as anhedral crystals, up to 0.5mm across, interstitially between plagioclase crystals or embays plagioclase crystals. This rock is injected many goethite veinlets.

