B-3 Geochemical Analyses of the Orange Area

B-3 Geochemical Analyses of the Orange Area (1)

T-R203	Edd.	7) [750	293	214	302	3479	1109	354	295	508	343	226	384	153	173	09	217	453	1000	361	1019	484	1907	511	966	1930	29949	26599	426	367	149	314	335	182	148	446	179	595	451	324	261	444	82	428
9 i	, 4	7.01	2.33	9	2.49	5.56	8.61	1.44	4.65	3.40	0.83	5.91	1.73	3.47	1.93	2.62	69.	3.05	5.32	80.	3.00	2.00	2.35	2.62	0.80	1.83	6.36	6.27	1.19	4.11	4.56	4.14	2.57	1.09	0.75	3.72	4.05	4.32	583	4.02	4.18	3.17	2.06	5.52	2.94
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ž	200	200	101	750	6.4	1450	28800	7530	1460	1450	393	2270	413	1450	424	127	633	1150	2270	1050	4340	1450	409	246	276	312	2420	10231	1035	7819	7958	933	926	297	210	1430	7445	7830	8538	7270	7967	4150	1393	1260	938
77	pbdd oc	8	7 69	368	સ	43	42	6	252	116	37	63	ጀ	127	EE	8	102	243	857	18	80	114	- 29	27	40	158	747	~	17	3	5	292	41	44	51	419	3	က	33	က	က	89	17	1110	38
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T.	E C	216	24	14	16	20	73	*-1	80	4	50	53	- 58	17	1.1	16	တ	22	16	3	07	41		23	15	53	80	64	270	7	16	7	24	24	13	21	10	က	13	9	10	9	10	2	<u></u>
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Y	E AC	200	407	92	15	15	49	83	22	45	44	1.7	14	34	Þ	တ	Ö	82	32	65	14	68	16 K	36	80	23	2	25	74	/ /	=	80	85	32	10	6	9	9	80	12	14 ×	16 K	8	10	-
Sc	200	0 0	r c.	8.5	11.5	15.5	2.6	0.5	8.6	42.0	6.2	25.1	9.4	12.7	0.5	3.6	10.0	13.3	2.5	0.5	4.7	1.6	7.1	10.6	4.3	7.2	4.8	0.5	0.5	2.8	6.3	11.4	10.2	6.8	6.4	4.8	5.2	6.2	6.5	4.0	7.1	3.5	1.2	1.2	9.8
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139		2 0	24	2.1	1.2	1.2	4.4	3.8	1.5	1.4	2.1	0.8	8.0	1.5	0.7	0.9	0.5	F.3	1.7	2.8	1.2	4.0	1.5	1.8	9.0	2.2	1.1	3.2	4.6	1.2		0.5	1.3	9.1	9.0	0.7	0.1	0.6	1.0	1.1	1.0	1.1	6.0	0.7	0
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3	42	2 4	156	28	45	25	825	215	29	7]	100	68	33	99	41	88	12	99 98	81	202	72	181	87	637	138	200	999	긔	4	88	97	32	2	8	23	49	108	47	201	100	71	99	113	12	105
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Rock Name		75-540	Dtz-Fd	Qtz-Fd				, Hol?	Qtz-Fd	Qtz-Fd	Qtz-Fd	Qtz-Fd	Qtz-Fd		٠.	-albitite?	Qt2-Fd	Qtz-Fd	HPJ (Qtz-Fd	bl-Agt		fenitised				, Ank		Ank	te, Ank		Utz-ra	Otz-Fd	Uta-rd		, Ank		, Ank	Beforsite 1	Syenite		ď.	porphyritic	Beforsite :
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B-3 Geochemical Analyses of the Orange Area (2)

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B-3 Geochemical Analyses of the Orange Area (3)

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Fe	,	2, 7	5.43	4.35	3. 3.	0.50	2.19	4.07	4.03	9.64	5.38	5.64	4.82	6.69	4.37	4.79	4.75	3,33	3.63	2.96	3.33	3.33	8 8	2.73	4.33	3.49	4.92	2.00	1.75	3.77	0.61	1.42	6.71	6.85	2.82	5.74	3.13	2.87	2.79	2.90	5.84	2.49	4.63	2.71	3.24	4 30
۵,	E C	4800	10/1	201	8	1067	209	1404	11372	100	100	200	955	8	4840	8	7201	10445	12911	3100	100	8	190	548	001	4025	11659	28	435	5370	221	929	100	222	121	100	201	100	213	104	190	207	100	100	100	142
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Æ:		0000	4314	907	6861	183	1399	2477	2332	10921	8678	7804	8437	9690	6954	6432	8117	5482	6844	6238	6122	6143	6620	6405	77.06	8968	9151	1063	571	2880	317	783	10501	6260	6210	13799	5930	6245	5200	4970	6607	4990	7734	2300	6994	8300
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×	-1	-	2	81	8	2	56	y 9	28	15	&) X	12.	13	11	10	14	01	92	27	∞ ×	6	8	14	2 K	9	10	1.2	12	16	105	9	7	11	99	မ	15	10	y. Q	11	2	55	8	07	6	16	4
Sc	E .	 	4.0	0.9	4.2	0.5	7.3	0.5	1.3	3.9	5.9	5.2	7.2	4.7	7.4	4.5	5.9	8.5	5.6	5.6	8	4.5	7.5	4.8	4.9	5.2	6.3	0.5	9.7	19.61	3.6	1.9	7.1	5.4	5.3	5.2	9	4.7	0.9	5.5	6.1	8.4	5.0	,1	5.7	0
13	+	<u></u>	3	0.1	0.1	Y	0.5	0.1 K	0.3	0.2	0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	2.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	× 	0.2	1.1	0.1	0.1	0.2	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	1.0	0.2	c
Q.	and a	x	× 0.8	1.0 ×	0.7 X	0.3 K	1.4	0.6 K	2.2	1.5	0.7 X	0.8 X	0.9 K	0.8 K	0.7 K	1.0 X	0.7 X	1.3	8	9.0 X	0.8 X	0.7 ×	2 0 -	0.4	0.6 K	0.8 K	0.7 K	 V	1.5	11.0	0.7 K	0.7 K	1.3	3.0	0.7 ×	7 0 Y	0.7 <	0.5 K	0.8 A	0.7 k	1.6	0.7 ×	0.7 ×	0.8 K	1.3	
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EI	E.	9.	5.5	7.8	2.4	1.1	13.5	1.5	3.6	2.0		3.7	2.7	4.0	5.0	4.5	3.4	6.4	2	2.3	2.1	2.0	3.5	1.5	1.5	1.3	2.2	1.6	9.0	14.5	0.5	6.0	2.1	0.60	0.9	2.3	2.3	1:1		0.9	30.3	1.5	11.2	1.6	3.0	2
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									.fenitised						Ţ															Phl-Agt-Hbl																
Rock Name		Ph1-Agt				Ank		Ank	迃	1			Ank		Hbl-Agt-Ph			Ap .	I I		Aet-Ph				Agt-phl		Ank		Fd			bitite											Ank		Ank	
-	- 1	ا۔	Beforsite	Beforsite	8eforsi te	Beforsite, A	Seforsite	1 -	Syenite, Agt	iss. Otz-Fd.	نوا		Ι.		Beforsite,	te	Reforsite	١.	Ι.	_	1,	1	Befors te	Beforsite	Svenite, Agt		Beforsite, A	Beforsite	Gneiss, Qtz-Fd	rsite ve	Gneiss, Otz-Fd	Syenite - albitite	Beforsite	Beforsite	Beforsite	Beforsite	Beforsite	Beforsite	Beforsite	Beforsite	Beforsi te	Beforsite	Ι.		Ι,	. П
le					-	·	 	+	╄-	-	+-	+-	•	-	 -	+-	٠	1	-	+	+	+-	+)	+-	-		+	 				+		+	-	Η.	+	+	+	+	-				4
				3 Cb525	4 CP600	5 Cb605	6 Cb610	+	+	+-	+-	+-	Τ.		4 Cc405	5 Cc410	+-	+-	+-	+	+-	1 Cc510	2 Cc515	3 Cc520	4 Cc525	5 Cc600	6 00605	7 Cc610	8 0 100	9 0 200	1-	_	-	3 0 310	4 D 400	5 D 405	6 D 410	╁┈	1	+		9	9 =	+	9 00	+
Š.		9	ŏ	8	8	35	96	97	38	8	8		105	8	104	105	108	107				E	Ë		11,6			Ξ	Ë	119		121	-22	123	124	121	128	127	128	129	8	3 2	133	3 5	3 8	

B-3 Geochemical Analyses of the Orange Area (4)

No. Sample Roc	Rock Name	Sock Sock	3 5	1	S PA	3 5	T E	ę.	.3 [S 25	>- 5	 	11 11	8 g	E .	ZZ	E S	rs a	P F	Fe T-I	T-R203
136 0 605 Reforsite. Ank		ich.	122	29	. I	Т.	4-	_		4.3		7	19	2129	12	-		Τ×	-1-		468
D 610 Beforsite		Mcb1	82	ì	[_	ļ	Ŀ	0.1	5.2	ı.c	=	-	9	2 ×	3	ļ_	+~	ļ		369
138 D 615 Beforsite, Ank		Mcb1	92	i	l	<u> </u>	L.	_	< 0.1	4.8	ω	-	2	2. 7.	2 2	 	<u> </u>	_Y_	}	.	292
-		Mcb1	1.1	l i	L	Ш	_		0.2	4.4	8	1	3	32 k	2 K			×			327
140 D 700 Beforsite		Mcb1	23	il	IJ	L	Ш		< 0.1	6.2	9	I ¥	1	82 <	2 k	Ш		Y	Н		241
141 D 705 Beforsite, Ank		Mcb1	178			Ш	_		0.1	4.3	9	2	6	371. K	2 ×	_		×	-	-	614
Sovite,		Mcs	104		1				0.4	0.8	40	-	1	38 K	2	_		\vdash	-4		455
0 720		Mcs	133		1				0.5	1.0	41	42	10	522 K	2	_			_		574
0 800 Gneiss,	fenitised	Ngn	36	ΙI	1 1		Ш	Ш	0.4	15.8	20	19	22	265	Ą	 		Н	┞┤	1	157
Da220 Syenite	ite	HSu.	54		1			_	0.1	2.3	1	11	7	200	ĸ				_	-	219
146 Da300 Gneiss, Qtz-Fd,	femitised	Ygn	156						0.	0.5	- 83	31	12	982	56	_				1	053
Da305		Mfn	169					_	0.2	8.7	28	6	33	539	13	-	<u>.</u>				678
148 Da310 Syenite, bre.		NSu	223	- 1	ı				0.3	5.6	22	23	76	1440	11						282
Da320		Mcb1	217				_4	Ц	0.2	4.3	43	6	2	252	6	4		-1			202
Da400		Mc51	678	_ I					0.3	4.4	20	2	101	31 K	7 ×	-		-+		1	339
Da 405		Mcb1	196		1				0.1	4.8	æ	~>	13	192 ×	х 7			쒸			8
Da410		₹ Ç	33		- 1	_	-:-			2.4		8	9	1190	2 2	_		t			195
08415		Mcb1	62			_	_	_	0.	4.9		8	٠-	2736 ×	× ~			~			27
DR420		Mcb1	110						0.1	3.4	=	2	15	510 K	2 ×		-4		_		522
155 Da425 Beforsite		Mcb1	53						0.1	5.4	တ	9	4	1558 K	2 K			×			185
-		Mcb1	49					Ш	0.1	3.0	6	2	9	1960	3				_		248
Da 505		McDi	78	li					0.1	6.7	7	9	8	2589 k	2 2		_	×.			33
Da510 Beforsite		Hcb1	22]	_	_]	0.7	4.6		2	9	202 k	х 2			\dashv			282
Da515		Kcbi	123	- 1	- 1		_	[6.3	6	က	2	383 ×	х 73			~			3
Da520 Beforsite	- Andrews	ICD	8	- 1	- 1	_				4.3		2	∞	8	7	4	-		_1		88
Da525		3	135	-	ı		_	_		4.6	و	_	2	<u>8</u>	×	_	-4	×	4		8
Da600		10. 10.	238	- 1	- 1	_	_	_	0.1	ص د د	200		32	X 02	× ,	4	-	-+	_		9
Da610		CD!	5	. 1	- 1	_L	4		3	20 0	- ·	.2	× ,	× ,	× ,	_	-4	-	Ц.		2
parou beforeste		JCDI.	<u>s</u>		-1		┙		- ; - ; - ;	5	×	-	3 0	× :	7	_	4	-4:	4		
Da 705		HCD]	29	ŀ			_	_	0.1	4 6	3		80	(26 K	× .	-	4	×-	_		823
Da710 Beforsite		ICD]	န္တ	- 1	.]		_	_L	0.1	7.7	Y	,	5 (y .	× .	_	-		_	L	22
08715		TCD!	& 5	1			_	Ц.	7 6	4.0	2 5		ب م	3 5	y 20	4	4	-1-	_1_		300
100 Marto Syelline, ure.	for it soul	T W	300	1	1		1	┸	3 4	2 2	a a	18	o you	11011	16	1	4	+-	1		
Dag10	fenitised		32	3/2	1	Д	1	<u>.L</u>	0.2	9.9	25	2 2	3 6	29 K	2 02	2 2	4	+	٦		197
Dh.205		ls.	112	ł	ı	<u>L.</u>	<u>L</u>	<u> </u>	Ž	20	9	82	6	1274	31	↓_	1_	ĮΥ	Ļ.,	1	377
172 Db310 Syenite, Agt-Hb1		MSu	782	ı		L	L	<u> </u>	0.1	1:0	97	16	142	1631	52	┖	_	-	L	<u>. </u>	663
173 Db315 Fenite		Mfn	146	į į	1	L			0.2	1.2	27	<u>ب</u>	10	498	38	٠.					624
174 Db320 Beforsite		Mcb1	406	i	I. i				0.2	7.9	35 K	1	2	20 k	2						529
Dp325		Mcb1	34						: 0.1 j	4.8	2 k	7	5	42 k	2 x	3					131
Db400		Mcb1	265						0.1	5.7	Ξ	3	12	718 K	2	က		ч			\$
DP405		Hcb1	31	li	⊢ I	1		_1	0.1	4.5	9	2	3	1047 K	2 ×	6		4			25
DP410			49	- 1	- 1	_1		0.5	0.I	4.4		4	9	288 288 288	У 72			4	_	<u></u>	98
Reforsite		HCD.	158	- 1	- 1	_1	_	8.0	1.0	6.8	ž		77	214 K	× 2	6	-1	4	_	ᆣ	23
DP/20		Cp1	460	· 1	- 1			1.4	0.2	6.5	18	11	74	3376 K	2 2	m	_				23

B-3 Geochemical Analyses of the Orange Area (5)

203	000	202	320	36	28	547	199	215	926	283	365	∞	8	187	295	2	98	ğ	=	33.	3	14	20	312	316	96	24	쯇	127	9	1.1		80	91	1.76	65	i.c	88	36	80	23	29	48	3	3
T-R203	al L		3 1			_		~~					- -									14.					L	Ĺ		2	4	Ξ	30	2	16			4	15	28	83	-	17	2	2
9.8	٩	4:4	6.7	3.7	33	7.28	5.14	3.98	3.78	4.3	4.71	5.25	.30	4.00	3.41	4.83	5.86	4.84	3.65	4.10	2 98	6.43	4 01	3.71	4.21	5.06	3.68	3.17	4.40	2.59	2.88	6.32	3.10	2.98	2.02	0.32	4.04	8.01	3.29	2 86	7 79	4.14	5.12	3.61	2.88
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Sr	2 S	70.07	5334	96,88	5502	4676	5304	5730	2885	4716	5228	5424	9	2772	5556	4856	5304	5588	5620	5724	5330	2012	3336	4332	5956	38	6970	5386	5578	6398	5796	4176	5082	5258	10122	∞	346	2570	1097	988	2872	3080	5294 ×	4430 ×	3556 K
ē	6767	7067	9540	7588	6206	9171	7853	6956	7159	7035	7759	8172	121	2009	6269	8285	7846	2006	6102	1699	5770	8038	5359	6537	7802	73	8308	5626	8390	5898	6173	7010	5522	6179	5314	242	1570	9110	3091	1860	7464	3650	7339	6290	5631
172	2	200	s or	6	n	က	n	က	က	က	62	es	145	70	က	က	82	3	22	m	m		2	3	6	220	3	14	س	8	6	ဗ	တ	က	8	21	221	က	22	49	15	3	છે	ເນ	2
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3. E	1244		3355 K	76 K	891 ×	2976 ×	152 K	613 K	383 ×	1852 K	482 K	1036 ×	176	386	2123 K	421 k	4121 K	612 k	1756 K	299 K	1751 X	505	4609 K	1732 K	1128 K	214	502 X	31.78 K	381 X	260 K	1031 K	869 ×	1762 K	126 K	28 K	× 80	136 K	A A	2734	3310	143	1850	735 K	343 K	1289 K
T.	T I	, a	6	130	7	ıņ	9	11	∞	4	4	Ξ	53	53	13	4	902	9	<u>س</u>	19		9	12	14	7	59	44	41	13	<u>-</u>	7	1.0	20	2	~	80	-	88	28	156	310	7	4	2	4
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7 E	2	0	80	18 18 18	5	7	œ	2 K	7	S	ω	-	20	23	11	ဆ	£	9	5	2	9	45	13	12	82	31	10	7	ż	4	2 X	10	7	5 K	47	13	11	16	15	24	19	80	17	<i>-</i>	2
သွန	4	7 8	5.2	9.6	7.0	5.0	5.2	4.7	4.6	4.7	4.7	ი ი	0.5	1.3	6.4	5.5	3.6	4.2	4.3	4.9	5.1	6.5	9.7	6.4	2.1	0.5	6.1	4.2	5.2	4.1	4.7	4.4	5.3	9.1	5.8	3.2	11.9	6.4	2.1	0.9	2.4	5.2	4.5	5.8	4.3
3 5	 	-	0	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5 K	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0 K	0.1	0.1	0.1	0.1	0.1	0	0.1	0.1	0.4	0.2	0.3	0.2	0	0.2	0.4	0.1	0.2	0.1	0.1
Q.	1 2 C		0.0 X	1.3	0.4	0.7 k	0.6 K	1.0 K	0.5 K	0.5 K	$0.6 \mathrm{K}$	0.7 K	3.1	2.1	0.9 k	0.7 k	1.0 X	0 0 V	0.5 X	0.7 K	0.6 K	=	1.0 X	1.0 K	0.7 K	7.0	0.8 K	0.6 k	$0.7 \mathrm{k}$	0.8 K	0.9 K	0.8 X	0.6 K	0.5 K	3.9	2.0	2.0	-:	0.9 ×	1.8	3.4	1.3 ×	1.3	0.9 K	0.6 ×
T. T.	2 0	0	0	8.2	0.5	9.0	1.1	0.9	0.8	8.0	0.7	0.4	1.2	2.8	1.0	9.0	9.0	1.0	1.0	0.5	9.0	8.1	0.9	1.6	8.0	1.5	1.0	0.6	0.4	0.5	0.5	1:1	0	0.5	3.8	0.5	8.0	4.0	3.3	7.5	11.5	1.2	.5	8.0	0.6
Eu	- C		00	4.9	8.0	1.2	1.8	0.5	2.4	1.1	1.3	0.5	0.5	6.0	2.3	1.0	0.5	1.1	10	0.5	8.0	31.4	2.2	5.6	1.6	9.0	2.4	1.9	1.3	1.2	1.7	3.2	1.9	0.9	7.5	0.5	6.0	8.8	11.9	21.8	57.5	1.4	3.4	0.9	0.9
22 80	. C.	8.9	7.5	23.4	3.1	5.5	0.6	3.6 K	12.4	5.9	5.5	1.6 K	4.3	18.1	11.9	5.0	2.2	9.9	4.9	1.6 ×	3.9	82.4	0.8	13.2	6.3	5.4	11.5	8.3	8.6	5.9	8.3	16.0	8.1	4.5	32.9	2.2	4.3	50.4	59.9	80.8	87.3	9.0	16.4	4.3	3.5
PN .	200	35	31	103	13	26	Z	14	23	42	21	12	15	88	8	80	24	42	32				3				109	62	91	ည္က	33	106	69	29	191	6	-		306	ļ	_		121		72
၁ ရှိ	88	34	153	553	65	237	275	72	342	111	109	31	77	133	199	99	67	106	œ	80	78	5959	122	303	105	148	190	506	211	108	169	455	332	Z.	999	13	48	1982	754	1112	3263	133	285	112	88
<u> </u>	43	77	97	403	41	138	189	23	253	7.1	7.1	20	ጄ	101	149	89	55	1.1	44	12	65	4065	100	213	35	93	150	<u>9</u>	100	52	88	365	239	20	414	14	33	1225	440	648	1891	99	427	60	5
Rock	Nebi	Acb.	Acb1	Mcbi	Mcbi	Mcb1	Hcb1	S E	Kcb.	Mcbi	Hcb1	Hcb1	Mfn	Mfn	TCD1	Acb1	Hcb1	Mcb1	Mcbi	Hcb1	Wcb1	Ycbl	Mcb1	Mcb1	Mcb1	Mgr	¥cb1	3cD1	Kcb1	Hcb1	HCD1	Mcb1	Col	Mcb1	SS.	Ngn	Msu	Mcb1	Hsu	MS!	Mfn	Hcbi	Ncb1	K.b.i	ŞCP.
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Rock Name	Site	Site	site	site	site, Ap	site	site	site	- 1	site, Ank		site, Ank		e, Agt-Phl	site	site	site	site	site	ite	ite	ite	site, Ank	ite	site, Ank		site, Ank	- 1	ite, Ank		ite Ank		ite, Ank	ıte	Sovite, Px-Phl	Gneiss, Otz-Fd	Syenite, banded	Beforsite, Ank	Ü	Syenite, banded		Beforsite, Phl-Hbl	ite	ite	ite
	Beforsite	-	+		Beforsite,	Beforsite	Beforsite	Befor:	Beforsite	Beforsite,	Beforsite	Beforsite,	Fenite	_			Beforsite	Beforsite	Beforsite	Beforsite	Beforsite				Beforsite,	Granophyre	Beforsite,	Reforsite	Beforsite,	Beforsi te	Beforsite	Beforsite	Beforsite,	Beforsite	Sovite	Gnerss	Syenit	Befors	Syenite	Syenit	Fenite	Befors	Beforsite	Beforsite	Beforsite
Sample No.	DM25	00505	Db510	Db515	DP220	999	DD610	DP620	DP700	Db705	DP710	Db715	Db720	02320	Dc ±05	Dc410	Dc415	Dc420	Dc425	Dc:500	Dc505	Dc510	Dc515	0c520	Dc525	0090	Dc605	Dc610	Dc615	Dc620	Dc625			Dc710	Dc715	£ 100	E 220	E 300		-	-	320			£ 405
ò	181	182	183	184	185	186	187	88	<u>88</u>	36	191	192	193	138		~~		861	_	7	-		_			-	_					_			215				\neg		221		-+	⇁	225

B-3 Geochemical Analyses of the Orange Area (6)

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440 Particular	No.	Code	and d	+		5	립.	\		~	6	100	1600 x	\ \ \ \	رب ا	ı		26	980
Colorestic Property Propert	-	Mcb1	273	4	3	2	1		2 6 6	3 2	1 4	2	7	S Y	٣.	•		6 09	121
State Marche March Mar	Beforsite.	Mcb1	2315	{	6001	8.12	اد.	7 0 0	7:0	7, 6	2 6	5 *	2000	1	0	1		93	215
Fig. Beforeste Fig. Fi	+	Hcb[23	25	24	=	٥	× 0		2	5 0	- 4	1000	, ,	0			47	6.13
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E&GIO Beforsite with Dol mega-crystal Mobi 140 293 84 13.5 3.6 1.1 0.1 2.8 6 1 9 185 2 2 3.57 116 3.58 Ea620 Beforsite Mobi 70 141 41 6.2 1.9 0.9 6 0.1 2.4 7 1 8 35 2 4 6130 4800 184 3.45 Ra700 Beforsite Mobi 70 141 41 6.2 1.9 0.6 6 7 1 8 35 2 4 6130 4800 184 3.45	Ea605		218	<u></u>	43	7.0	7:1	0.0	1 -	0 0	9 4	100		2	-	+-	+	82	689
Eacon Beforsite Hobi 90 156 42 3.1 1.0 0.3 0.4 7 1 8 35 k 2 4 6130 4800 184 3.45 RATIO Beforsite	Ea610	_	140	~	\$	٠,٠	- "	1.1	7.0	0 0	2 4	1	12	٦	~	- -	+	83	377
Ration Sefersite Mebi 70 141 41 6.2 1.9 0.9 0.0 K 0.1 2.4 1	Fa620		8	156	4.5	٥.	 	2 0	1 .	0.0	2 6		3 15	1	-	ا	+	45	334
	69700	Mcbi	20	141	4,	5	2	2	7.5	,	-	1	3				4		

B-3 Geochemical Analyses of the Orange Area (7)

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271 F	F2705 B	Reforsite, Ank	-	544	~	í		_]	0	o 0	-		1	30	1011	4	,	1	. [╁-	3	2
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+		Į	Hcbi	87	192		_	0) (> c	200	- 2	-	3 4	107 X	, y			570 2380	30 0.56	99	27
-	•	Sovite	S	687		- 1		5 0	; c	ο c	3 C	3 7	1	22	359	80		1	i i		3	97
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	_	Beforsite	JCD!	3	- 1			- 4	0	Z V	1	×		3	× 98	2	E		v	~	¥	4
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·		Beforsite	2	9				0.0	ļ.	0.0	10	-	~		2493 K	2	8	<u>L</u>		36 4	38	89
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	50505	Beforsite	Mcbl	09]			7,1		4	4	7		-	4 0	1691 K	\ \ \	~	⊥	v	100 6.	19 4	=
	⊹ -	Beforsite	McDI	35	- 1		- 1	4.	1	4	0 4	- 1	1	140	У 1001-1	2	3	١	V	100 6.	57 89	44
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	┺-	· -	<u>1</u> 0	95	- 1		.	1	_	2 2 2 2 2 2	- a	7	-	25	× 588	2	3	-	430 K	3.		11
	Eb525	Beforsite	100 100 100 100 100 100 100 100 100 100	223	٠,		ł	1 -	2 2	2 2	7 7	1.0	, ~	6	£3.	2	9	١_	338 K	00 4.		46
+	-	Beforsite	3	818	- 1		ĺ	6 7) - -	200	9 6	3 5	4 4	21	1916 K	2	60		356 K 1	00 3.	3.87 10	1005
+	ED605	Beforsite	100 E	83	- 1		-	7.6		2 2	2 5	0	4		1749 K	× 2	3	-	824 K 1	00 3.		4
	-~	Beforsite	MCD:	8 8				1.1	2 6	× ×	4	9		2	48 X	2	3	L	604 K	3.	4	22
298		Beforsite	CO.	8	- 1			16	5 0	, x	4.5		2	7	313 K	2	4	_	V	00 5.69	-	3
${}^{-}$	-	- 1	MCD1	202	L-		1	2 2 2	1 -	, 9	2 4.3	12	2	31	121 K	2 K	3		v	_	75 22	23
	-	Beforsite, Ank	TCD.	050			ı	- R		C V	1	9	ī	~	415 K	У 2	3		v.	00 4.	15 5	3
	-	- 1	TO CO	8 8	221	18	1 L.	6	0	0 × 6	1 4.2	g	1	10	303 K	2 K	က	8964	v.	100	10	7 6
		Beforstre, Ank	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	407			1	5.5	0.	0	1 7.9	21	2	4	305 ×	× ·		\rightarrow	_1	200	101	2 2
305	20170	Detores to	- L	3953	⊥		l	4.7 5	4 0.	$.9 \times 0$	1 3.0	27		137	=	7 2	2000	+-	4	900	27 77	<u> </u>
-1-	+-	Syanita Cut by Ank vein	NS:II	713	_				5	.7 K	1 × 0.5		3	200	oner	9 8	000	+	┸	67 2 R	: S	2
+-	-	Syenite	Msu	186	_				1.8	0		- 6	2	3	S	3 2	100	+-	1_	1	8	5
+-	┿	Fenite, carbonatised	¥fn	341	497			10.2	9	0 0	0.3 × 0.5	25	J (1	2	704	2	100	-{-	1	3.3	98	65%
╁	+	Reforsite Agt-Phi	Hcb1	53			Į	_	9	>) Y	- i	- (7	216	200	1	6	╁	۷,	2	63	3
	+	Reforeste	Mcbl	29	1—		5.1	1.4	0.8	6 7	2	ام	- -	- -	7 500	43	2 6	+-	2036	28	23	233
	-+	Reforsite	Mcb1	139	⊢		12.2	2.6 1	0	o y	2	×	7		270	3	20		7 706	3 5	Se Se	2
_	-	Reforsite	HCD.	83			6.2	1.4	0 8	0 Y	4	- 8	77 9	20 0	2000	30	2 0	+		141	03	100
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~i ~	+	Referente Apt	Keb.	130	⊢	33	8.1	2.0 0	8	6.	2.9	3 12	φ.	4. 5	X CIE2	20	3 6	2010	4278 ×	200	36	2
			Kep!	262	=	94	19.0	3.6	.2	0 X	.1	11	4	77	X 5021	200	3	0130	2000		3 2	1
214	2012	Reforeite	KO.	479	8	133	16.6	3.4	0	7 × 0	1.	7 12	7	=	4118	4 7	2	2020	2020	3	7	3
		DETUTATive																				

B-3 Geochemical Analyses of the Orange Area (8)

	3	200	and d		_			_	-			1000		EDCIC	Edd				_	ac
Beforsite	Mcbl	65	120		L.		0.3	0.7 K		6.3	9 6	9	-	ا ب	×	-	ļ		١	783
Beforsite	*CD1	123	152	Į I	Ļ	_		ابا		1.8	9	2	5 29	3 K	2 K	3 5928	-		1	391
Beforsite	Hcb1	106	190		10.6	\dashv	Ц	0.7 K	0.1	6.2		3	4 57	A A	х 2	3 6858		لعا	5.95	455
Beforsite	Ncb1	114	202		8.5	1.8	0.7	إير		0.9	7		4 614	×	2 X	3 6788	ļ	т 199	က 88	477
Beforsite	Hcb1	153	235	- 1	7.0	1.4	0.7	20	0		9			Υ	X 2	3 5518	_	8 2	2.74	573
Beforsite	Acbi	282	126	1.	م ب ب		٥-	لع	0.0	0.0	- 61	2 9	4	<u>بر</u> بر	y y	3 7599	5000 5006	3 5	3.43	C25
_	Mch3	127	961	- 1	2 2	2.0	8.0	D. 7 K	7 ~	2	1 00	2 -		y y	Y	3 7550	4.	90	5.22	483
Reforsite	Mcb1	629	932	1	16.1	9.5	2.1	0.9 ×	0.1	5.2	12 ×	103	33	×	V	3 6856	4		3.54	2100
Beforsite	Mcb1	229	405	1	22.5	L	2.2	0.8 K	0.1	1.7	12 K	1 4	Ļ	x w	, , ,	3 8144	ļ.,	1001	3.91	984
Beforsite	Kcbi	127	156		L	L	9.0	0.5 ×	0.1	9.1	e V	1	┡	3 X	, x	3 6950	<u> </u> _	ľ	4.35	411
Beforsite	Mcb1	212	311	1 .			6.0	v		4.8	80 X	1		× 8	, x	3 6564	ļ.,	100	3.83	773
Beforsite	Hcb!	154	241		1	2.2	8.0	یعا	0.1	0.	e Se	1		N N	Y	-		IJ	3.83	280
Beforsite, Ank	Hcb1	339	455	126	17.1	3.2	7:2	0.8 K		3.5	7	II.	7 183	Y Y	39	9 9074	5986	00 t	7.11	1171
Belorsite Gnoves Oty-Ed famitised	Nega Nega	3 8	27		1	0 6.	0 0	4	0.0		15.	20	8 14	2 1	215		4.		2.00	36
	Men w	8	163	Ł	1.	, L.	; œ	\perp		1		L	+	07	757	Ŧ.	2570	5960	4.27	493
Reforatio.	¥CP.	294	209		17.0	4.2	Ļ.		_			_	<u> </u> _	¥	×	 	4	77	4.07	1320
Beforsile with Mag layers	r C	186	316		5.4	3.6	S	v	+	1.2	×	7	!	×		8580	. .	179	5,71	28
Beforsite	Mcb1	169	88		9.8	2.4	L	l _x	0.1	2.6	9		14 25	1 x	, X	3 5670	4960	131	4.03	825
Beforsite	Kcb1	7.5	122	ĺ	5.3	2.0	0.9	يعا	_	8:	ص حد		L.,	2	~	3 5720	_	166	3.00	314
Beforsite	#cbi	2.2	119	ı	6.3	1.3		v	L.	1.2	6	4		5	Y	3 8000	6044	100	5.37	305
Beforsite	Mcb1	97	137	i	5.0	1-6	0.8	v		8.	7	2	8 46	×	X	3 6010	5540	130	2.02	321
Beforsite	¥cbi	93	155		5.1	1.5	0.7	V.	0.1 5	5.4	ę.	2	\Box	Υ 6	<u>.</u>	3 6430	6040	255	3.86	371
Beforsite	ig.	9	88	- 1	4.3	1:3	9.0	y.	_	80	ω,		4	-	Y	6140	5520	139	3.92	22
Beforsite	QC.	109	169	ι	8. α	2.3		,	_	4	16	4	4	y ,	x :	5584	22.00	4420	3.97	430
deforsite	ucpi	313	180		18.0	4.0	٥٠	يا	_	9.4			-4	١	<u>, </u>	2000	4850	1/1	3.33	1364
Beforsite	Col.	62	791		4.5	4.0	7.	0.6 0.6	0.1	5.7	- 9	2	1100	×	<u> </u>	2965	7696	100	4.01	244
Berorsite	ACEL	3	200	•	5.5	6.5	7 0	ىك	+	2	2 5	7	4	- 1	1	0000	0717	267	0.10	100
Beiorsite		20 5	707	- 1	2.7	2.0	ρ (r	حلع	7	0 0	20	1	207		×Į,	6180	3480	91 -	3.87	200
Referente	Tep.	137	214	- [7 0	200	200	J	100		, 00	1	100		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	6360	2310	100	4 92	132
Beforeite	KCP.	25	302	ì	2 0	2.4	8	. ,		~		, -	8 123	×	×	5780	4050	19	3.17	382
Befors: te	Acbi	107	165	1	7.9	8.	0.9	9 0	0.1	7	7 ×	1	0 2	~	×	3 6470	9009	100	3.11	405
Beforsite	Mcbi	79	140	1	5.1	1.4	1:1	1.7	3.2	4.	7	2	7 157)	×.	7860	4910	114	3.95	344
Beforsite	Hcb1	184	291		14.5	5.9	1.0	0.9 × (0.1 4	1.5	7	7]	L,	7 K	×.	1 7610	2088	< 100	3.43	111
Beforsite	Mcb1	276	505		15.8	3.5	1.8	0.7 k	0.1 2	9.	10	4 20		7	4	009/	4200	180	4.82	1158
Beforsite	Mcb1	283	448	- 4	21.1	o.	1.2	9.0		9.	6	27		,	14	9218	9466	168	7.23	1087
	igo Repi	23	348	ı	12.0	2.6	2:	0.5 X	7.1	0	9	~	_			6190	4200	133	 	822
Beforsite, Ap	ico:	294	406	- 1	11.6	2.5	0.0	× 0	7.1	0			4		_	6058	6948	001	3.15	8
Beforsite, Phi	HCD1	434	299	- 1	25.3	000	2.5	X X X	7	×ομ	13	C7 2	4	61 6	5000	0230	4820	9070	3.03	1592
We with Cal	To La	2 5	200			0 0	7 6		44		1 46		4		1	0777	2070	0000	70.7	050
Symile, he will bal marrix	TISE!	101	200		0.2	2.0	2.0	1.7	4,6	20	2.3		1		1	403	007	282	200	977
Refors to	Mch.	77	152		5.5	1.3	0.8	0.9 ×	1.1	.2	200	, ,	1_	2 2	ļ.,	1 6190	4440	174	4.04	349
22.1	2000		3				2						4	ĺ	1.	┨.				
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B-3 Geochemical Analyses of the Orange Area (9)

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2	aldings.	KOCK NAME	500	3 5				0.00		E GO	200	uca.	1 1000	n maa		n maa		n didd	Edd Hdd	2 2-4	Rid	3
3.5	F9.120	Reforsite	Nch!	439	661	4_		ì	1	0.2	L	_		ļ.,	L	×	_	- -	Ŀ	ļ	L	27
	Fa400	+-	Mch	₽	1_		1_	1	1.2	0.1	4.5	10	8	ļ	700	13	4	Ľ	Ŀ	⊢	-	47
-+	Fad 10	Reforsite	Nebi	64	6		1_		0.5	0.2	3.0	5			341	4	6	Ļ.	Ŀ	3.56	6 269	8
+-	34 5	Refors te	Mcbl	╁	_	i	1_	ŀ	0.7	k 0.1	5.3	9		∞	402	× 2	£	ļ	Y.	L	_	11
+	Fa420	Reforsite	Mcbl	62		ļ_,	1	ı	0.5	0.1	2.8	9	~	! —	762	2	3	L	_			42
	Fad25	+	<u> </u>	╄	<u>L</u>	ļ.,		1	0.7	5 0.1	5.5	10	က	16	697 K	2 K	3 6	Ц			Н	2
τ-	Fa500	+	Mcb1	-	<u> </u>	ļ	<u> </u>	ı	0.5	- 0 Y	2.4	9	3		320	4	4 6	L	250 108		_	79
+-	1.	+	Yeb1	╁	Ŀ	<u></u>	Ŀ	ı	1:0	У 1.0	9.6	12	-	-	291 <	2 2	3 6	3442 6	210 433			35
-1-	•	•	Mcb1	╁	<u></u>		Ц.			× 0.1	2.9	7			967 K	2 K	3	5510 5	720 1(.
-	-f	-f	Acb1		_		L	1	0.8	k 0.1	5.8	6	3		> 920	× 2	3 6	9 019	434 × 10	-		23
	+-	+	Mcb1	├	<u>L</u>		1_	ł		0.2	2.5	9	Ц	Ц	658	3 K	3 8	860 4	900 122		Ц	5
7			Ncb1		L.	ļ	L	l	0.1	х 1.0	5.3	∞	ന	_	033	> 2	3 6	5058 5	286 × 10		Ц	£
	Fa600	+:	Neb	2350	上	1	L_	1		0.2	3.5	28	31	L	030	10 10 10	3 6	3940 5	120 12	L.,		01
1-	F2605	+	Mcbl	├-	L	Į,	L_	i	8.0	0.1	4.8	5	L	<u> </u>	952 ×	_v_	ļ	3756 5	344 K 3(L.,	8
_	100	- }-	Ncb.	╀	L	<u> </u>	1_	ŀ	9.0	0 1	3.2	7	2	L	450	v	Ļ.,	460 4	740 13	ļ	_	2
-	Kaf 15	╨	Ę	182	L	ļ	1	L	0.1	0	4.2	7	L	! _	234	Į.	ļ	3660	912×16		L	22
	Fa620	+	بري. الج	╁	1	Ļ.,		ı	0.7	0.1	2.6	7	-	 _	38	v		3250 4	110		Ŀ	88
	13675	-	, Co	-	!_	<u> </u>	<u>. </u>		8.0	А	0.5	9 X	-	L	S.	v	<u> </u>	7138 6	758×16	100 4.2		37
- -	Fa700	+	Mch.	+-	L	I	<u> </u>		L	L.	2.5	11		L_	140	v	_	3410 5	1 066			47
+	Fa705	+	Mcbl	┾	1_	٠.		6 1.0	6.0	× 0.1	2.9	9	L.	L	163 K	v	L		Y		_	6
-	Fa710	+-	Mcbl	⊢	<u> </u>	ļ		ł	L		2.6	× -	L	_	4 ×	v		Н	Н		_	9
1	Fa715	!	Ncb1	157	_	I				х 9.1	5.5	9	3		99	Ų			ᆚ			စ္ကု
 	Fa720	┰	Hcb1	⊢	L	ļ.,		4 1.1	0.9	K 0.1	3.9	10		_	2	\mathbf{v}					_	စ္တု
+-	Fa800	Syenite, Ne with Cal matrix	MSn		L_				. :	0.3	0.5	23	_		277		4			-1	_	<u>@</u>
 	Fa810	-	Msu	Н	Ш				Ц		0.5	SS	7	ιĊ	265	20	575 1	-+	2340 5250	3.48	_	8
*-	Fb320	-	Mcb1	⊢	L			4 6.2		0.2	0.5	32	_		021	V	-					8
+-	FM00	!	Acb1	١	L.		I		0.5	1 0 x	4.8	9	_	ı.	483			-	×	_	_	73
_	FØ10	+	Mcbl		_			5 0.8	1.0	0.2	4.3	S			417	24 K	3 - 6			_	_	2
+	Fb415	+-	Hcb1	202	<u>L</u>		L	5 0.7	0.8	K 0.1	4.7	6		_	850	v	_		×	_	_	2
-	Fb420	-	Mcbl	} —	L	ш	L. :	5 1.1	0.6	K 0.1	4.9	7			999	ی	_		ᅬ		_	္ဆု
+	F0425	+	Mcbi	_	L		<u>i_</u> 1	9 0.7	0.8	- - -	4.6	5	4		358	ايد		[164 × 130	-+		য়
1	Fb500	Beforsite	Hcb1	ļ	L.,			5 7.0	2.0	0.2	0.5	62	12	Ц	937	لح			_		_	္ထု
393	Fb505	⊹	Hcb1	<u> </u>	L!	ш		5 0.8	1.0	K 0.1	4.6	9		_	38 38	ایر	က		28 24	3.8	_	
i –	†	Beforsite	Hcb1	L	L.				1.0	k 0.1	6.7	21	2	_	6				312 × 10	0 12.4		5
395	∤	∤	Içb.	ļ			<u> L</u>	8.0.8	1.0	k 0.1	5.1	9	ស		989 ¥	اح		-1	396 × 10	00 4 E		25
و	Fb520	Beforsite	Mcb1	21			.6	5 0.8	0.5	 	4.3	9	4		891	×.	3		188 × 10	10 4.E	_	S
12.	Fb525	-	HCD1			_	.9 1.	0 0.7	9.0	- 0.T	4.5	2	က		510 K	7 7	3		152 × 10	ω ω	_	
398		۰.	Ycb.		_	L	.2 1.	2 0.5	0.7	. O. I	5.4	9	1		459	3 Y	3		33. ×	0.0	_	g
-1	+	+	Hcb1	22	L.	<u>l </u>	.7 1.	0 0.8	0.8	د 0.1	4.3	4	2		82	3 X	3 7	7836 5.	268 × 10	5.5		္ဘု
-	Fb610	┾	Hcbi	ļ	L_		.3	5 0.9	8.0	K 0.1	4.5	4	4		233	œ œ	3	134	50 200 200 200 200 200 200 200 200 200 2	5.0	_	္ဆြ
\vdash	Fb615	Beforsite	Hcbi	Į.	l	ᆫ	1.	2 0.5	0.8	< 0.1	3.8	4	Ţ		685 ×	×	3	3096	36 × 55	3	2/	2
\vdash	Fb620	Beforsite	Hcb1	547	L	_	.7 8	6 2.3	0.8	(0 I	5.3	13 K			27 K	2	3	2905	152 × 10	0 6.2	7 215	ട്ടി
403	Fb625	Beforsite	Hcb1	Ŀ			ري و	4 1.5	0.9	0.1	∞	12	4	_	812	۲ ۲	က I	832 4	310 ×	00	155	3
404	Fb700	_	Hcb1	633	770	!	9	4 1.0	9.0	0	3.7	6			47. 4	7		250	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0.0	202	3
35	-	Beforsite	Mcbi	78	127		.1	5 0.7	0.7	6.1.	3.7	6 K	1		890 K	7. Y	υ 	9079	11 × 21	3.5	37	3
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B-3 Geochemical Analyses of the Orange Area (10)

B-3 Geochemical Analyses of the Orange Area (11)

T-R203	Edd.	1404	413	750	1023	250	135	1300	141	350	88	179	12232	326	684	689	1160	9463	1590	463	859	3018	25.55	138	850	2670	612	1993	424	909	957	906	26883	5790	11964	5916	850	945	5859	1642	183	6675	3255	280	484
9 :	34	50.0	5 00 c	3.63	4.2	3.39	282	2.23	2.87	1.15	1.94	2.98	7.13	2.99	4.74	6.43	5.43	7.97	06 6	4.28	5 93	9	8 29	5.44	4.54	5.37	4.00	4.91	4.76	5.09	2.99	1.15	7.29	99.9	6.75	9.07	5.85	6.20	5.33	8.26	6.41	4.96	8.40	5.99	2.97
ď	aldd.	200	141	315	100	135	8	15700	725	293	496	2100	1240	3100	2064	344	1852	2150	3374	150	100	4	295	155	100	153	100	116	3418	7120	0710	2140	100	9996	1242	007	100	100	001	180	100	100	100	001	126
Sr	Edd S	7010	4020	4210	6632 K	5240	339	3330	3450	97	309	647	6210	166	1172	2580	5612	2900	2986	4970	4×90 K	4910	3570	4860	5134 ×	4020	6512 K	4650	1906	696	2580	4340	1694 ×	7230	2768	2412 K	5796 ×	4932 ×	4620 ×	1418	1855 K	5306 K	8100 K	5930 K	7082
Ų.	PDd 2.476	01410	7896	5840	7648	6790	1219	1230	1050	460	554	988	7890	1120	1225	5200	8062	7400	11088	7100	7434	8420	12412	7970	6782	8140	7050	7380	1688	1830	1430	1380	7928	8560	6444	0286	8632	7858	8116	1102	9656	8246	0800	8034	7100
Zr	Edd.	2 0	3 63	4	(1)	-	164	28	797	87	405	493	က	143	66	က	er	m	c	3	(7)	65	m	8	9	ιç	က	3	556	949	132	14	1.5	<u>س</u>	m	9	ຕາ	3	က	27	m	က	3 1	m	3
Ta	₩dd	46	76	3 [2	3	23	2	15	2	11	57	5	2	41	2	ς, X	4 ×	4	2 k	47 K	33	2	82	2 X	2	2 K	8	58	61	2	2	2	2 K	× ∞	4	2 7	2 2	?	ເດ	~	2 ×	2 ×	2 2	2 7
SP.	- 12 Edd	005	248 X	2300	Y	246	183	23 ×	555	27 K	202	1670	88	313	2903	47	476	38	7.1	87 K	3649	2020	99	1850	57 K	210	38 K	1980	354	214	20 K	88 88	52	37	689	180	ω X	7.1.K	ω ×	329	125	17 K	398 K	45 K	204 ×
£	uda .	5 0	30	28	╌	1-	١	⊢	4		⊢	├	<u> </u>	ـــــ	ـــــ	L	ļ	<u>ļ </u>	<u> </u>	ــ	.	1	↓_	<u> </u>	Ш							_				L		L_	L	Ļ.	4	228	127	53	20
	ed.	3 -			-	3	31	6	ro	2	12	34	4	16	4	2	2	4	3	·	32	53	6	2.2	1	7	1	9	1	2	2	55	0]	S	9	9	1	3	3	15	53	2		_	_
h	Edd.	2	- 40	80	10 X	00	=	52	Ġ,	13	က	91	25	18	11	8	6	92	50	9	∞	=	34	=	6	14	8 X	17	20	105	55	10	\$	42	41	35	12 k	10	54	48	5.7	37	14 K	10 K	7 k
SS	Ppdd 1	9.3	4.4	2.6	6.4	3.7	1.1	0.5	2.6	3.9	0.5	0.5	3.3	0.5	2.3	1.7	5.0	3.0	5.1	2.8	5.5	3.5	4.3	3.4	4.2	2.4	5.5	3.1	0.5	0.5	0.5	0.2	0.5	3.8	3.1	4.0	5.4	8.9	4.9	15.5	11.3	5.6	3.1	5.4	3.8
3	E C			0.1	0	0.1	0.1	0.2 K	0.2	0.5	0.1 k	0.1 k	0.3	0.2 K	٠.٠	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.5	0.2 K	× 0.1	0.4 X	9.0	0.2 K	0.3	0.1	0.2	0.1	0.1	0.1	0.4	0.2	0.1	0.1	0.1	0.1
ę l	200	0.7	0.6	0.7	0.7	1.0	0.8 K	2.4	1.3	1.4	0.5 k	0.9 K	2.3	1.6	0.7 K	0.8 K	1.0 K	1.9	1.7	0.7 K	0.7 X	0.7 K	1.2	0.8 X	0.7 K	0.9 K	0.6 ×	1.4	1.8	8.6	3.6	4.0	1.2	2.8	1.0 ×	1.5	0.8 ×	0.9 K	1.1	3.7	1.8	0.0 X	0.8 k	$0.7 \mathrm{k}$	0.5 K
T.	PPI R	2 0	9.0	1.4	1.7	0.8	1.0	4.1	0.7	2.1	9.0	0.5	13.1	2.6	5.9	1.3	2.1	11.8	1.6	1.2	1.7	2.0	7.8	3.6	0.9	4.1	9.0	3.0	2.0	4.3	3.5	5.5	16.1	5.6	16.3	8.3	1.4	0.7	4.7	4.0	1.1	5.7	5.9	1.2	0.8
E	7 7 7	×	2.2	2.4	3.2	1.1	9.1	9.9	6.0	1.0	0.0	1.0	80.9	4.7	5.0	3.3	5.9	41.6	9.3	2.2	4.6	5.8	23.9	6.9	2.7	0.6	2.6	4.6	4.0	8.4		.5	1.1	19.8	73.3	44.5	5.7	3.0	12.5	8.5	1.1	32.9	21.1	4.0	1.9
8	25.55	2	8.0	10.7	14.9	6.4	4.8	36.6	3.9	11.8	3.4	5.9	279.5	13.6	22.0	12.6	27.5	156.6	41.5	8.5	22.1	22.5	186.8	28.9	11.8	43.8	11.0	22.3	13	22.6	26.0	31.2	551.4	95.5	383.0	221.3	23.1	12.7	72.4	33.8	1.0	73.3	90.5	16.2	6.5
Nd	156	34	28	22	106	28	16	153	61	43	10	22	1778	22	98	\$	152	952	208	55	112	114	1282	149	35	262	70	162	15	8	122	129	3192	650	1860	1066	Z	100	989	138	18	1132	517	73	21
e i	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	176	386	332	400	97	48	507	42	114	31	29	5047	110	892	284	446	4033	288	1 81	328	397	3322	546	342	1132	241	906	155	186	369	343	8580	2032	4050	2034	327	373	7066	280	60	2064	1150	214	176
r Pa	385	107	143	186	292	60	27	538	38	35	19	49	2560	25	130	159	284	2414	420	112	210	268	1936	359	233	691	165	203	83	112	5 <u>0</u>	179	9385	1862	3160	1307	213	272	1955	463	47	1941	805	142	120
Rock	FC.	¥C.D.	HCD1	HCD.	Mcb1	Mcb1	MSt	Mcs	MSIL	Ngn	iksn	Msu	D K	NS.	MSn	Mcb1	Mcb1	Mcb1	Mcb1	Mcbi	Hcb!	Kebi	Mcb1	Mcb1	Mcb1	Mcb1	Mcb1	CS	NSt	ns	S	S	JCD!	E F	Mcbl	Mcb1	Hcb1	Mcb1	Hcb1	Mcb1	Hcb1	<u> </u>	Hcb1	Mcb1	Mcb1
Rock Name			The state of the s			, Phl	Agt	forsite, Phl	- 1	tz-fd, fenitised	Ne	Ne	Beforsite dyke with Phl		fenitised	, Phi												11-Px		We with Cal matrix	Agt-Phl rich					. Gn bearing									
<u>a</u>	Beforsite	-	+	f			Syenite, Agt			Gnerss,	Syenite,			Syenite	Syenite,			_	Beforsite			-	Reforsite	Beforsite			-+		_	Syenite	Sovite,	_		~+	$\overline{}$		-+		_						Befors te
Sample	_	+	+	├ ──	9	ی	-			-+		-	-†				$\overline{}$	-		-						\rightarrow	+	$\overline{}$	Ga525	6a 700	Ga 710	69720	0099	60505	GP210	Gb515	CD520	G9255	9995 1990	GP605	019Q5	00400	66410	00415	6c420
δ.	451	452	453	45	455	456	457	458	429	460	461	462	463	\$	465	466	467	468	469	470	47.	472	473	474	475	476	Į,	\$	43	2	æ		8	2	485	486	487	188	489	490	<u></u>	495	93	494	495

B-3 Geochemical Analyses of the Orange Area (12)

B-3 Geochemical Analyses of the Orange Area (13)

T-R203	E dd	157	38	597	1280	2162	1125	747	418	1285	2.03	1255	658	1040	1376	960	513	1043	1233	843	1906	219	1364	1521	675	217	239	665	37	800	940	340	261	663	1580	707	007	286	1001	523	1320	114	005	ç
<u>, </u>	**	1.15	1.70	2.47	1.95	2.13	2.24	0.44	2.10	2.23	2.96	3.51	2 90	3.82	1.58	3,55	3.81	2.24	2.58	3.17	3.29	0.56	3.66	2.46	.88	1.78	3.87	1.37	2.85	0.36	1.04	2.32	2.44	3.81	3.14	6.7	27.79	000	25.00	260	2	2.49	\$ R.F.	
d		+	}	1	┰	-	1	i -	\vdash	+	···		+-	₽	•	-		-	+-	+	+	∤-	ł	+	-	╄	Ŀ	_	L	٠	L	ш	1			L	_L	1940			_1	┺.	1	
5	Edd																																					2660						
Mn.	Mad	28	+	┿-	├	Į	١	╁	! —	+-	 -	4-	₽	₩	├ ~	ļ	ļ	٠		↓ .:	٠	∟.	Ļ.	١	↓_	١	L.,		L.,	L.,_		LJ		Ш.	L	_1.	.:	. [1	1	1	1	L	
-	E E	-	100	120	╆	6	 	 	-	-	ļ	ļ	+-	1_	1			<u>. </u>			i	I	1			1				\$ I		4	223	- 1	- 1	ن د د	3 0	2 6	26	3 6	22	83	0,1	200
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P	udd	×	7	99 Y	520	210 K	170 K	130 K	40 K	583 K	661 K	430 K	900 V	147 K	834	14! X	23 ×	2 000	635 K	733 ×	553 K	55 X	448 ×	× 089	358	64 X	164 K	330 K	249	378	40 K	27 ×	89	8 5 5	200	2020	3 5	را 1	7 2	98		83	9	3
Lh I N	d undd	-	Ļ	42	ļ	ıc	┡	ļ	<u> </u>	L.	ļ	 	L	ļ	17	2	L.	L.,	L	L	L.	_	L	1_						Li				- 1	1			30-	Т	1	ı	ı	l	
ŀ		~		2	27	4		2	2	1	-		-	 -	5	-		1	_	L		<u> </u>	L	-								3	4	7) (7)	.7.	-	4		, ,		L	∞	Ļ	_
	E E	_	2	2.1	05	16	42	192	23	53	21 K	98 98	28 28	X 82	83	34 ×	17 K	29 K	44 K	ļ	ļ			Ļ								0		201		y \	15	~	200			ĺ		
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L	mdd.	ļ	<u> </u>	<u> </u>				Ŀ	Ŀ	_	_	L	乚	<u> </u>										L	L							- [. [.				1	1	ı	0.7	-	-
\vdash	ppd	ļ	L	ļ.,	ш	Щ			L	ļ	<u> </u>	L	L.	L.	L	٠			_		L										ĹĴ							2 -	:	1		0.7	-	?
L	ppm	_	_	<u></u>		Ĺ		Щ	Ĺ	L	L.,	L_							ļ	l!		il						- 1			1	- 1	vΙ	- 1	-)	1	ŧ	1	ŀ	1	!	ì	ì	
易	mdd .	3.6	2.6	19.6	42.5	19.4	32.5	32.4	6.8	27.9	30.5	41.2	18.3	29.4	42.8	34.1	14.6	23.4	38.9	28.9	73.3	5.8	82.9	62.8	16.4	4.5	5.6	18.1	2.4	25.0	25.2	יט נים	9.6	- C	20.00	4.62	7	5 5	24 0	21.7	23.2	2.6	0	
PR	шdd	17	9	3 4	165	260	149	111	48	139	130	218	8	158	200	151	74	112	166	139	281	46	272	250	83	28	35	8	ა	103	125	23	37	20 50	8	111	5 5	200	3 2	22	147	16	7.1	-
3	ndd	59	8	226	495	1062	451	223	168	571	972	509	264	378	526	377	207	440	491	321	730	77	770	574	257	92	116	240	6	298	365	138	99	797	010	- YO	212	8	35	244	585	쫎	130	8
<u> </u>	u dd	37	9	116	250	392	226	122	83	259	486	130	123	245	262	156	97	231	538	145	378	85	355	259	147	49	69	138	4	175	192	77	52	139	125	52	3 6	3 6.	27.5	4	289	30	117	77
Rock	Code	Mgr	Ngn	Mgr	Mcs	rg.	Mcb2	Msn	Ngn	Mcb2	Mcb2	Hcb2	Mcb2	Mcb2	Mcs	Mcb2	Mcb2	Mch2	Mcb2	Mcb2	Mcb2	Nsh	Mcb2	Mcb2	S)	Nen	Mgn Tay	Mcs	Nsu	HCS	Xcs	ES.	ES.	Ngj Koko	200m	MCh2	200	Mrh2	, F	14CB2	ASA:	NS.	Non	2
Rock Name		ock	z-Fd		1-Hp]				Qtz-Fd, fenitised	Ąρ	Agt-Dol	dy	Ank	Ap	-Agt	Ap	Agt	Ap	ďγ					Ap			Qtz-Fd, fenitised		ct-Phl-he	2				. rentrised				[6]		Beforsite cut by Carbonate vein		ore.		
		Granitic rock	Gneiss, Qtz-Fd	Granophyre	Sovite, Phl-Hb	Granophyre	~ 1	-	Gneiss, Ota	Beforsite,	Beforsite, Agt-Do	Beforsite, Ap	Beforsite,	Beforsite,	Sovite, Ap-Agt	Beforsite, Ap				Beforsite	Beforsite	Quartzite	Beforsite	မှ	Sovite, Bt	Gneiss, Qtz	Gneiss, Otz	Sovite, Phl	Syenite, Agt-Phl-Ne	Sovite, Agt?	Sovite-beforsite	Gneiss, Otz-Fd	Gneiss, Otz	unelss, Vtz-ra,	Beforeste, Ap	Sefores to		1.		forsite, c	Syenite-albitite,	Syenite-albitite,	or of inov	CITTOR'
Sample		•		-	-				-	_	-	-	Ja900 B	_			-				_	-			K 400A S		-1	£				-+		07/	-1-	-+-	-f	-	┿	+	Kallo S	Ka120 Sy	12 000 CV	-
No.			542		_			-	_		_	551	-	$\overline{}$		_		_	_			199	_			*	×	~	∸	~	≝	<u> </u>	572 K	3 C A	< >	2 =	4 >	-	=	-	581 Ka	582 Ka	583 189	-

B-3 Geochemical Analyses of the Orange Area (14)

T-R203	2	1102	1361	368	920	298	ਡ	768	641	1505	1170	245	989	737	354	532	459	375	088 88	741	929	185	1102	1140	1009	717	380	1045	732	299	149	632	491	1672	892	541	203	601	115	216	283	854	132	1608	1160
0.34	2 33	2.64	1.35	5.89	5.63	3.03	2.43	3.57	3.22	2.13	8. 22.	2.36	2.85	3.03	3.62	3.40	7.35	8.42	3.29	<u>4</u>	3.37	5.91	2.52	3.18	3.01	2.95	1.98	3.01	2.67	2.45	2.34	2.59	3.18	2.66	2.60	5.80	1.74	3.30	1.74	3.88	2.82	0.75	4.61	1.82	3.36
d a	241	11500	8140	4390	916	1880	14578	7400	4662	21400	16055	191	9646	8950	2877	8297	4396	1565	16084	10220	13709	145	16899	16302	19090	3820	3130	9311	11130	5574	100	7690	5628	30060	9783	1550	509	341	237	169	388	4160	1180	22120	18400
Sr	333	1640	4250	569	517	1840	4530	1570	4082	2320	4610	6340	4046	4040	873	3538	498	069	4484	3930	3766	1682	4460	4444	37706	4202	5642	4036	4066	4800	3888 k	5374	4700	8869	3640	130	139	224	889	819	1270	4100	332	6428	4100
Wu waa	874	1310	5240	1450	1244	7850	6346	5540	6770	2900	6910	6230	7018	6150	763	9160	1233	1308	1176	7354	7514	10698	5934	6852	5812	7192	6134	7346	6450	5628	8224	6288	. 6867	6602	2982	1820	585	698	430	1580	1280	1060	1160	1194	6150
2r DDM	280	14	3	29	260	6	3	3	8	8	8	~	ر ب	33	136	3	33	22	3	60	60		60	က	3	3	3	3	3	2	3	3	3.	3	3	135	122	153	53	512	700	22	270	18	e
Ta	63	3 143	~3 ~	2	2 . >	2 >	2 >	2 2	2	2 2	2	2	2	2	38	2	2	2	2	2	2	2	2	2	2	2	2 2	2	2	2	2 2	2 2	2 .	2	2	7	2	ب	2	15	2		2		
d% mag	1810	105	145	æ	74	2770	1536	2350	164	14	2533	2	2562	102	2742	1156	36	536	999	1236	1327	4277	808	4789	1610	1014	10 k	1367 k	221	656 k	. 708 k	572	951	339 k	1310	46	33	88	127	955	259	733	68 K	218 ×	2280
ųL Rod	0	6	-	2	6	5	6	33	13	2	∞	2	ın	2	31	3	8	9	-	ď	41	=	6	S	5	4	1	9	2	4	ស	2	4	4	8	21	16	x	တ	6	99	35		60	14
n n	210	13	F	-	2	۲ ۱	1	2	1 >		-	(-	7	က	1	1	3	1		4	14	1	_	(1	: 1	1 ×	1	. 1	1 1	4	: 1	. 1	. 1	: 1	2	٠,	ထ	10	c.	79	6	7	4	7
Y	2	29	95	35	14	10	32	46	41	55	43	တ	23	82	13	707	43	13	31	24	82	14	35	40	35	25	14	33	56	18	16	24	21 }	54 4	33 k	45	50	8	4	15	30	63	9	64	48
သည်	20.5	2 2	3.1	10.6	2.6	0.6	0.6	4.3	< 0.5	< 0.5	1.1	< 0.5	× 0.5	9.0	S 0 S	< 0.5	19.7	12.3	0.7	2.0	6.7	2.3	1.0	9.0	< 0.5	1.3	0.5	< 0.5	0.7	1.3	3.1	1.3	3.0	1.1	1.8	15.2	3.5	10.0	0.5	1.4	0.5	c 0.2	11.4	0.5	0.5
ry Edd		0.5	0.7	0.3	0.3	k 0.1	0.2	0.2	0.3	0.2	0.3	< 0.1	0.1	0.2	0.2	0.2	9.0	0.2	0.2	0.2	0.5	0.3	0.2	0.5	0.2	0.2	< 0.1	0.2	0.2	0.1	0.5	0.1	0.2	0.2	0.2	0.5	0.4	0.4	0.1	0.4	0.3	0.5	4 0.1	0.5	0.3
QJ.	9.0	(C)	9.9	8.2	1.4	8.0	1.5	2.2	2.2	2.7	2.2	0.7	1.2	1.1	1.1	1.1	3.9	0.9	ે. ક	1.3	3.3	1.6	1.6	1.8	1.6	1.3	0.8	1.8	1.3	1.1	1.8		1.4	2.4	1.9	3.9	2.3	2.5	0.5	2.0	2.4	3.7	8.0	4:0	2.6
Tb	.l		3.8					L								1.2	3.5	0.1	2.7	2.3	4.2				2.6		1.0							5.9		1.9	1.7	1.7	0.7	1.0	1.2	2.5	9.0	3.3	4.4
ng Boo	L	1	<u> </u>	L_					_				_							L	L	L	L.,	L.,								I	ļ				i I		ŀ	ı	l	7.3	-	11.9	11.2
3 6	2.6	30.9	38.6	9.6	6.6	5.7	32.4	20.2	20.7	36.6	41.3	4.5	21.4	22.7	5.2	18.3	15.2	9.	33.1	24.2	28.1	4.2	35.9	37.7	35.1	23.1	2.6	30.2	23.5	15.7	4.1	23.2	20.1	63.3	33.5	10.8	10.5	23.2	2.6	4.7	6.5	24.0	3.4	52.3	35.0
PN	<u>}</u> _	j	174	Ι.						l							- 1							•							.	Ì					ļ.		l	l	١.		1	230	179
	1		Z	120	267	108	360	282	761	290	464	98	275	797	160	206	171	156	34	791	138	9,2	424	424	382	267	146	394	288	245	ය	222	159	551	307	218	99	251	36	78	108	319	52	647	430
La Dog	22	248	276	8	156	76	174	170	109	277	203	69	126	172	68	92	75	8	2	117	126	æ	165	176	162	118	28	200	124	162	27	105	90	309	168	97	S	102	99	47	59	204	28	309	229
Rock	i S	S	NCS.	Mcb2	Mfn	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Ncb2	Mcb2	Mcb2	Mcb2	NS:	Mcb2	Ash	Mf.	McD2	Mcb2	Mcb2	Hcb2	Mcb2	Ncb2	Mcb2	Ncb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	4cb2	Mcb2	Mcb2	Ngn	HS.N	NSI.	HSp.	dsk	dS.	Mcs	HSI	McS	Mcb2
Rock Name	-	Sovite.	+-	├	Fenite, gneiss origin?	_	-	Beforsite, Ap-Dol	Beforsite	!	Beforsite,		Beforsite, Ap		Syenite, Agt	Beforsite, Cal bearing	-	Fenite, gneiss origin?		Beforsite	Beforsite	Beforsite	ļ—	-	Beforsite	Beforsite	-	-			-		-	Beforsite	-	Gneiss, Otz-Fd, fenitised	Syenite, porphyritic	┝	+	├ -	Syenite - albitite	Sovite, Px	Syenite	-	Beforsite-sovite
Sample	-1	Ka620		1 Ka710	Ka715		Ka725	Ka800	Ka805	Ka810	Ka815	Ka820	Ka825	Ka900	Kp610	KP620		1	-	Kb720	Kb725	Kb800	K P805	Kb810		Kb820		Kc725		Kc805				Kc825	Kc900	L 100	L 110	1, 120	L 200	L 210	L 220	1 600	F	Н	T 620
No.	98	283	288	589	290	591	592	593	594	595	286	282	298	280	909	109	805	603	9 0	992	909	607	809	609	610	611	612	613	614	615	615	617	618	619	620	621	622	623	624	625	929	627	628	629	630

B-3 Geochemical Analyses of the Orange Area (15)

Š	Sample	e Rock Name	Rock	E.	ප	N.	S	Bu	Tb	Yo	13.	SS	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	Th	Nb Ta	-	JL JZ	An S	Sr P	Fe	T-R203	-
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631	L 625	_	Хd	21		\dashv	I	_	2,4	3.0		21.9	× 63	Ţ	4	38 ×		_	-				
632	L 700	Gneiss, Qtz-Fd	Ngn	93		-	- 1	_	_	ш			15				3	45 14		-	_		_
633	1, 705		Mcb2	483		-							71	2:					H				
634	L 710	Beforsite	Mcb2	234		-		Ŀ.		L									\vdash	_	٠.		y
635	T 712		Mcb2	28	1	\vdash	i		-	Υ.					_	•		1 :	-	1	-		t
636	1.720	Beforsite	Mcb2	10	ı	-	\sim		-4										-	1			
637	1 725	Beforsite	1 Mcb2	184											_			. 1	-	-			_
638	008 7	Beforsite	Mcb2	215				_				ļ	١					ŀ	-				···
633	1, 805	Beforsite	Mcb2	71		\vdash		Ŀ	Ь.	lv.		_	ŀ		1	ı		ı	├	ì	+-		_
640	1, 810	Beforsite	Mcb2	159		•	1	_		Щ		L	١٠.		<u>. </u>	ı	ŀ	1	┼	1	+		т—
541	L 820	Beforsite, Dol	Mcb2	169	i	-	1			L.,			١. ا					Į.			-		·
642	006 T	Shale, black hard	NSh	66				Ш		L						ı		ı	┝	┪			·
643	La120	Syenite, porphyritic	Msp	30		-				l !					١				-	-	-		
544	La200	-	Msp	31						_									-	-	⊢		_
5 42	La210	Syenite, porphyritic	dsW	112					·-	l		L_								-	⊢		~—
8	La220	-	McS	212	l.	├ ~~	ı	L.,	<u> </u>	l		L_		U		1		1	┝	├ ┺	┼~		<u>-</u>
<u>£</u>	La610	Sovite-beforsite, Px-Phl	Scs	253	1	ļ	1	L	L	ı			l			ı		ľ	⊢	1-			
6 <u>78</u>	La615	Beforsite	Mcb2	144	ı	⊢		L_	_	ŀ		İ.	1		1	ı		ı	 –	┼~	⊢		
<u>S</u>	1,a620	Sovite-heforsite, Px-Phl	NCS.	347	ı	┞	ı	<u>L</u>	L	١.		l	l			ŀ	١.	1	├-		-		-
650	La625	Beforsite	Ncb2	12	Į	₧	lv.	ᆫ	L	Ľ		l	ı			!		_	 –	1.	1		÷
651	La700	Beforsite, Ap	Mcb2	154	ļ	⊢-	ı	L.	<u>_</u>	l		l	l		}	ł		ı	├-	-			
652	La710	Beforsite	Mcb2	338		_		L	<u> </u>	1		1	ł		ı	l		ı	H	-	f —∙		_
653	La715	Beforsite	Mcb2	157			ı								1	í		ı	Ŀ	-			-
654	La720	Beforsite	Mcb2	ċ			\sim									•	2	~		-			-
655	La725	-	Mcb2	128		_									1	ı			ļ	_			-
929	La800	Beforsite, Ap	Mcb2	181		-		_						٠	1	ı			<u> </u>				
657	La805	Beforsite	Mcb2	170				L.I	_							i I			ļ	-			
658	La810	-	Nsh	80		\vdash						1	l		1 :				ļ	-	<u>. </u>		
623	La900	\dashv	NSh	61	- 1	\dashv	. [1	- 1		ı	- 1	4									
999	Lb605	-	Mcb2	238								.	i						-4				
661	1,5610		₩cb2	138											- 1								
662	Lb615	_	Mcb2	114			- 1	.		1.6		0.7	22 K	7	7 10	1045 ×	2 2	22 62	_		_		
93	10620	Beforsite	Hcb2	88	- 1		- 1		[ł		Į			- 1	- 1	- 1	- 1	-4	- 1			
664	Lb625	-4	Mcb2	124		_	- 1	1	1	- 1					- 1	ı		- [_		!		
9	Lb700		Mcb2	2	- 1		- 1	- 1		- 1		- 1	- 1		- 1	- 1	- 1	- 1			_4		
999	Lb705		Mcb2	93			- 1			H		- 1	Į						-				
299	Lb710	-	Hcb2	115	- 1	_	- 1	1	1	- 1									_		_		
899	Lb715	-	Mcb2	38	ļ	_	- 3	- 1					Ė							-			
699	Lb720		Mcb2	\$			' · i		∟	v.													
670	Lb725	_	Mcb2	104			1		L. J										ļ.,				
129	008qT	Beforsite	Mcb2	61	1								10 K		15				L				
672			Mcb2	69		1	- 1		Į	v			13	က	8					_			
673			Mcs	183	l								23	94	9 14		7	6 17	Н		_		
674	lc615	Sovite	Mcs	207						1			83	4	11 12	212	5	4 61			L_:		
675	Lc620	Beforsite	Hcb2	88	!	Ш	1	}	į l	1.5	0.2		21	<u>.</u>	6 14	111 K	2 K	3 60]	1	1		
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B-3 Geochemical Analyses of the Orange Area (16)

NO. Sapire No. 676 Lc625 Beforsite 677 Lc700 Beforsite 678 Lc705 Beforsite 679 Lc710 Beforsite 679 Lc710 Beforsite	3 6						add .	and o	-	. !				-				-	-	2
Lc625 Lc700 Lc705 Lc710 Lc715	8	1	-				1111			Edi	E dd	bbm	bbm	ppm i	ppd	-	ᅥ	٩	Edd.	
Lc700 Lc705 Lc710	Mcb2		ı		l		2 7.1	1.1	0.5	92 K	-	_	707		-	_				15
Lc705 Lc715	Mcb2	153	1			1	_	l	1.0	8 8	1		935 K	2 K	_					*
Lc710 Lc715	Mcb2		1			1 -		v.	0.7	21 K	1		454	15 K			-	-		Ĕ
Lc715	Mcb2	 -	Į.		l	1	_	l_	2.0	19 K			252 K	У 2	_	-		_	-	<u>,</u>
	Hcb2	┼~			ţ	l			6.4	38			1755 K	2		-4				<u>,</u>
1,c720	Hcb2	383	1		ı	l	l	l	3.0	21			2194 K	2	_	-	Y	_		اي
1 Lc725	Hcb2	╂	1		ı	ļ	L	l	22.1	16		Ĺl	4493 K	-2	_		-			0
٠.	Hcb2	╁	ı		į	ı	<u> </u>	1.	3.7	145			974 K	2 ×		Ш				ري ا
1,0805	Mcb2	├ -	ţ		Ι΄.			v	3.7	14 K			185	20 K		\vdash	-			2
9	MSW	ļ	J		l				0.9	13			823	9						
M 110 Svenite-a bitite.	NS.	├ ~~	1		ł	ļ	- 1	Ú	0.5	10			892	2	<u>.</u>		-	[اي
W 120 Syenite, porphyri	MSM	ļ			l			v	0.5	17	1 1		006	9			-			ջ
N 206 Syenite	Asp	 	Į.		1	·		v	1.2	:13	34	18	496	2.	320		\dashv			اع
N 210	ASP.	 	1		l		<u> </u>	l	0.5	24			3170	15			-			<u>.</u>
¥ 220	ğ	 	ı		ŀ	l		I	5.1	79			13 K	2 2					1	_
300	XCS	73	i		ı	i			0.5	56			134	2	_					_
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× 500	¥CS	├	l						0.5	11			æ	2					-	9
909	Mcs	ļ	ŀ						₹ 0.5	99	-1		856 X	7	_	-	-			9
¥ 605	Mcb2	 	l		1			v	1:5	16			1001 K	× 7			-		-	چا
N 610	Mcb2	├	1		I.	l		v	1.3	12 K			126 K	7 7			_	1		2
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N 620	Hcb2	┾	ł		ł	l	_	L.	0.5	16 K			768 K	2			_		-1	اي
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902 ¥	MCb2	 	1 -		·				2.8	37 K	li		1980 X	× 2	_		┱╂		1	
N 705	Hcb2	٠							3.2	49 40 40	Į		3661	24				-		စ္က
¥ 710	Mcb2		l						8.0	40			4030	5		{	{			
M 715 Beforsite	*cb2	181			l	l			0.7	39 K	1		837	21 K		-		-1		*
₩ 720	Mcb2	١÷	l		1				1.2	38 K			1480 K	У 7	-4	-				إي
M 725 Beforsite	Hcb2	333	1 8		1	- 1			0.7	х Ю		.]	578	×		4		-4	-	3
₩ 800	Hcb2		1						9.0	91	1		3520			4	_	-4		<u> </u>
┰	Hcb2	434							8.8	22	23		2357	22		-	- 1	-1	-	2
H 810 Shale, bla	NSh.	89			1				8.6	32		1	21	~						وا
006	ASh	├ -	ł						0.5	29 K			2 ×	2	_					اي
Ha 120	MSM	121							0.5	I3	109		1170	S	_1		<u></u>		}	2
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Ma210	Nsp	81	ŀ		l		Ĺ		8.0	52			519	2			_			2
Na220	Nsp	28	í				. :	×	0.5	14			124 K	7			_	{		٦
Ka510	NCS.	 			Ł	l	<u> </u>	_	3.0	65	1 K		3 K	У. 7	_		_			إو
Ma520	SS	195	l		Į.	l			0.5	.63	4		90 K	23			_		{	ائت
Refors te.	Mcb2	┿	ŀ		1	l	Ŀ	v.	5.1	10	7	13	612	¥. 9!		-	¥			ای
Ma600 Beforsite. Cal	Ncb2	-	Į.		1	l		يحا	1.5	16	10	41	2200 K	2		4	⊣	-1		اي
Ma605 Beforsite	Mcb2	+	306	191	36.9	8.7 6.2	2 1.5	LJ	0.7	35 K	7	ည	941 K	х 2	3	7166	7252 14282	38.	951	긏.
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Ma615 Beforsite	Mcb2	102					0 1.2	0.1	0.71	25 K		c	989	712 712	2	-	_		4	ام

B-3 Geochemical Analyses of the Orange Area (17)

T-1203		557	1029	603	27224	16476	596	335	217	331	426	242	1346	383	321	1659	905	9226	1163	457	966	1526	454	550	465	867	321	922	366	2571	2409	2221	5500	8	3	227	1159	3829	1094	467	574	1134	654	2622	2400
		.37	121.	.31	88.	69	.99	86.	.14	92.	- 88.	.37	86	.35	- 64	47	.42	23	-24	.52	18	.45	00.	39	. 50	. 19	. 6	.43	36	.77	.48	88	45	15	35	.61	.83	.13	88	95	20	40	43	02	- 50
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B-3 Geochemical Analyses of the Orange Area (18)

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B-3 Geochemical Analyses of the Orange Area (20)

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3		B	132	88	65	8	28	8	22	98	6	72	02	8	93	24	48	139	21	92	48	135	74	69	35	32		52	142	45	89	8	88	20	94	51	29	109	29	7	46	31	37	49	33	20
3	3 6	262	567	270	179	293	358	311	414	237	25.5	219	332	349	223	35	190	517	189	283	210	494	302	466	113	83		142	410	115	166	200	223	134	207	147	191	343	162	154	142	97	122	181	105	162
-	1 E	131	263	172	133	184	285	225	172	174	128	168	215	275	168	23	103	539	108	225	107	360	506	185	92	58		33	233	71	100	128	157	74	120	100	101	873	88	91	88	51	57	78	48	69
1 4000		 	├-	Ncb!	Mcb1	Hcb1	Mcb1	Cb1	Hcb1	Light.	15	YCh.	Ich:	Ncb!	Mcb1	cb]	Ncb1	Hcb1	Nebi	F.C.	NCD1	Ncb.	Ncb1	Mcb1	McD1	Mcb1		igopi Kepi	Hcb1	Mcb1	Sebi-	Mcbi.	¥cb1	Mcb1	Mcb1	Ncb.	Mcb1	Hcb1	Kcbi	Ncb1	Mcb1	Mcb1	Mcb1	Mcb1	Mcbl	Mcb1
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B-3 Geochemical Analyses of the Orange Area (21)

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898	3- 95	Beforsite, weathered	ered	Ncbi		741	307	41.5	7.2 3.0	0.7	k 0.1	1		9	216	089	9	7	8564	12522 K	100	 	1904
668	3-100	1	Fe oxide rich	Mcb1	117			_	L	I	l	L	8	2	r.	28	2	14	<u> </u>	×	L.		494
906	3-105		Fe oxide rich	Hcbi	274]	i		ļ		3	94	1266 K	2	8	ш	Y.			1789
106	3-110	-		Mcb1			IJ	Ц			l l			3	က	1416 K	2	9	_	ᆈ		4	8
305	3-115	Beforsite,	ered	Mcbi				_	- 1		I	_			8	22	× ~		-4	_		4	1916
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904	3-125	Beforsite,	sulfide rich	Hcb1			- 1	_	- 1	i	}			9	2	370	¥ 0		_	25 25 25 25 25 25 25 25 25 25 25 25 25 2		4	72.61
906	3-130	Beforsite,	sulfide rich	¥cb]			- 1	_ [ŀ		[S	20 X	× 7	e (4	6578 ×	00	4	443
906	3-135	Beforsite,	sulfide rich	Mcb1					.			_		1	Ċ	162 K	×	ر	_1	6870 ×	-		33
907	3-140		sulfide rich	Mcb1			1							2	21	780 ×	× 2	3		6706 K	-	٠	809
808	3-145	, ,	sulfide rich	Ncb.			i I		.			4 l	9	n	ານ	369	× 7	က	- ↓	6154 ×	+	4.93	272
606	3-150	Beforsite, sulfi	sulfide rich	HCb!	119		- 1	ᆜ	1	ŀ	. C	.; .;			121	× 26.7	× 7		_	(415 ×	100	_	ŝ
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910	4-0	Beforsite, weathered	ered	Mcbi	46	107	_		0.8 0.7			4.4	S)		2	X X	× 72	က	_	5812 K	8	7.	243
911	4-5	Beforsite, weathered	ered	Hcb1	38	74	_				0.1	4.5	S	~	15	1574	13	4	_	ᆈ			8
912	4- 10	Beforsite,	ered	HCb]	46	22	Ш		0.8 0.	Ц	یا	4.4	9	-	2	835 K	× 2	က		v.		3.01	23
913	4- 15	Beforsite,	sulfide rich	Hcb1	86	201	_				v	5.7	14	2	49	2831	11	14	_	5318 (. 07	507
0.0	4- 20	Beforsite,	sulfide rich	KCD.	30	29	<u>L</u> .				v	9.3	5	11	140	7391	113	23				5.42	164
915	4- 25	Ł	Fe oxide rich	Mcbi	53	64	L				v	14.8	5	2	14	4598	94	80	_			8.82	160
916	4- 30		Fe oxide rich	McbI	22	72	_		.0 0.7		v.	2.2	5	14	114	8609	103	44	_	ν		. 18	158
917	4- 35		sulfide rich	Hcb1	66	178	Ŀ		L		v	2.9	7	13	12	5678 ×	2	4		5194 K		91.	411
918	4- 40		Fe oxide rich	#cb1	931	1384	.277	53.3 10	10.0 1.2	2 0.7	, k 0.1	6:3	15	Ţ	7.1	116 K	×.	က	6107	5212 K	100	3.34	3262
919	4-45	Beforsite, weathered	ered	Hcb1	373	544	_				یا	6.8	읔	2	21	1879 <	× 2	<u></u>		5314 ×		22	1302
920	4-50	Beforsite, weathered	ered	Mcb1	112	199	Ц		4.			8.7	=	2	7	1037	× 7	ر	_	2834 ×	-4	55	512
921	4- 55	Beforsite, weathered	ered	Ncb1	129	230					v	8.3	13	4	=	216	ري ح	 	_	3860 ×	-+	56	228
922	4- 60	Beforsite, weathered	ered	Mcb1	116	201				_	v	5.8	6	12	14	6177 K	× 7	ر	_	5392 K		70.	473
923	4- 65	Beforsite	-	Mcb1	132	230				_	v	9.8	11		15	98 98	Y 7	3		4160 K		. 45	545
924	4- 70	Beforsite		Mcb1	105	202			٠	7 0.7	1.0 ×	7.5	10	-2	11	300 ×	× 2	e E	↵	6232 K		.98	461
925	4- 75	Beforsite, weathered	ered	Hcb1	146	897	_	l	L	_	v.	0.3	es.	-1	11	S.	2 ×	3		7220 K		.00	608
926	4-80			Hcb1	88	160			L		×	2.7	10	12	12	1570 ×	> 2	3		5630 K		.73	369
927	4-85	Beforsite		Hcb1	295	764		1		8 1.1	0.2	6.4	16	4	43	568 ×	2 ×	3		5112 K	Н	82	1858
926	4- 90	Beforsite		Mcb1	130	324		i			v	6.5	13	Ξ	23	3298 ×	× 2	3		5644 ×	100	8	743
929	4- 95	Beforsite, weathered	ered	Mcb1	387	280	_					6.6	16	9	25	1965 ×	× 2	_ص	_	4484 ×	-	.27	1373
930	4-100	Beforsite, weathered	ered	Hcb1	493	752	L					6.5	15	2	25	434 ×	2	3	_	5638 K	-	. 13	1870
931	4-105	Beforsite		Mcb1	88	165	L			8 0.8	v	5.3	11	28.	13	7358 K	2	3	_	6010 K		. 65	409
932	4-110	Beforsite, weathered	ered	Mcb1	152	256	_					7.3	13	2	14	777 ×	× ~	3		5978 K		. 15	652
933	4-115	Beforsite, weathered	ered	Mcb!	214	351	_			_	¥	7.5	13	1	31	17 ×	× 7	33	\dashv	7432 K		.87	998
934	4-120	Beforsite, weathered	ered	Mcbl	276	385					v	6.5	11	7	14	414 ×	7 7	2	_	4996 K		.72	939
935	4-125			Mcb1	49	87					\mathbf{L}	5.9	6	S	4	1121 ×	× ~	3		5634 ×		. 14	232
936	4-130	Beforsite, weathered	ered	Kcb1	95	83	Щ				یا	4.0	7	2	43	6324 ×	2	2	_1	4930 ×		33	2112
937	4-135	Beforsite		¥cb1	81	145	Щ	6.6	1.1 1.	0.0	v	5.6	¢-		9	126 ×	2 ×	3		6234 K		8	360
938	4-140	Beforsite, weathered	ered	Hcb1	52	45			.7 0.7		- -	4.9	ς. Q			225 ×	× 2	~	_	4934 K		68	127
939	4-145	Seforsite,	sulfide rich	Hcb1	35	146		9.4	.2 1.	2 0.7	, к	7.3	80	1	4	× ∞	× 7	3		5556 K		- 35	383
<u> </u>	4-150	Beforsite,	sulfide rich	Mcb1	62	142	Ц	4.9	.3 0.	7 0.5	× 0.1	5.3	7	3	11	2577 ×	2	3	6242	5890 K	100	.49	322
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B-3 Geochemical Analyses of the Orange Area (22)

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T-8203	ndd.	-		≅∫	5	7.	ę,	4	80	æ	9	జ	ض	175	5	4.	7	7	3		3 1	í	75 	7 6	اِدَ ا	ä	100	202	200		2	2	2	•4	4	ιñ.	7		7	_	16	5	4	ć
Fe	+	_		6.40	3.28	4.39	3.01	4.45	2.94	3.56	5.12	4.65	4.77	5.85	5.06 5.06	4.28	2.34	4.03	5.34	4.31	S);	25.	1	Ø;	4.11	7.37		9,44	900	3 2	4.88	3,39	4.87	3.32	2.95	82-9	2.91	2.83	3.14	4.36	4.64	3.12	3.63	
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QΝ	E.	3	1347	2	21 X	1180	903	182	158	632	813	1009	3023	714	594	3590	482 ×	1579	× 45	459	603	5	X [8]	25 X	191	222	000	× 8/21	200		4532 K	× 62	$1094 \times$	2503 ×	1563 ×	502	> 285	1055 K	929 K	1819 X	1508 K	484	2645 K	
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Sc	bba	5.3	3.8	5.1	3.7	3.7	3.7	3.9	3.6	3.9	4.5	3.5	4.2	4.8	3.7	4.7	4.9	5.3	4.0	3.8	4.6	4.3	4.	4.4	6.8	5.1		0.5	٩	3 6	7.4	3.9	9.2	4.5	4.5	< 0.5	1.9	3.0	2.2	3.3	5.0	2.9	4.1	
3	add.	0.	0.1	0.1	0.1	0.1	-:	0:1	0.1	0.1	0	0.1	1.0	0.1	0.1	0.1	0	0.1	0	0.1		-		0	-1	9.1		0.5	- 6	3 -		3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
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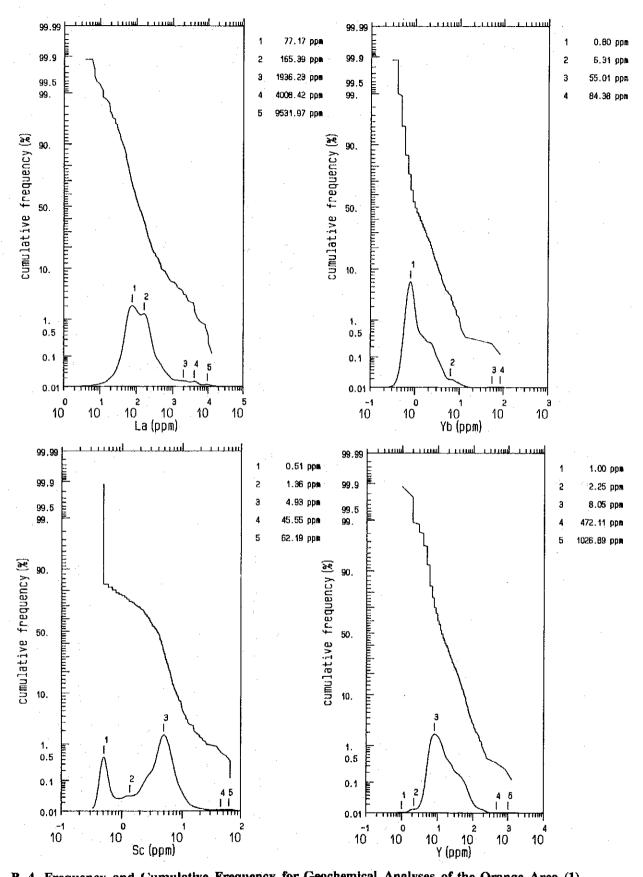
B-3 Geochemical Analyses of the Orange Area (23)

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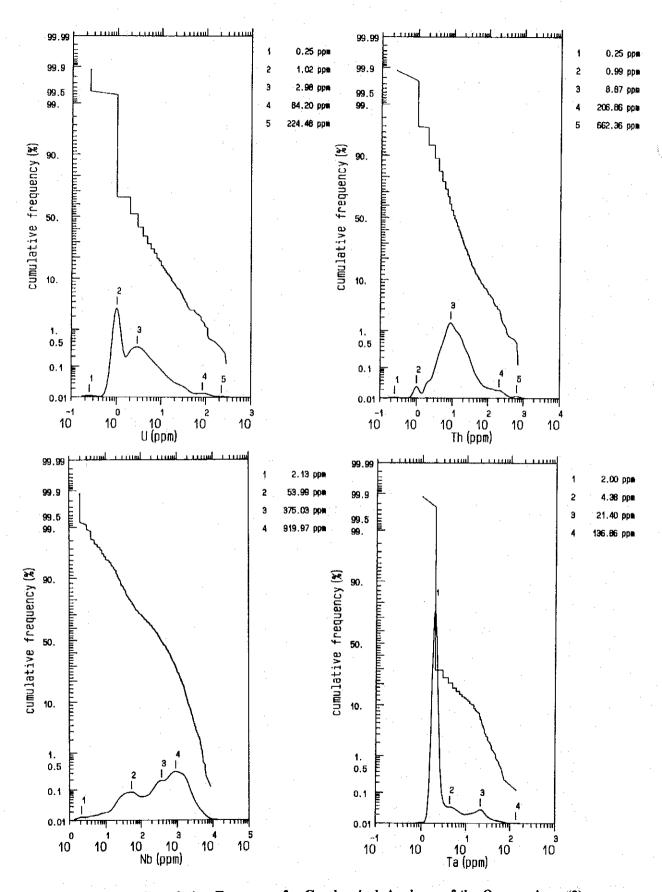
B-3 Geochemical Analyses of the Orange Area (24)

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32	4			145	 	09	73		Ļ.	<u> </u>	.4	.2	-		k 1	1	110 K	2	4	7374	$\overline{}$	4408	2.94	252
059	¥			150	-	186	١		Ш	ļ	.6	.8 0.	.2 2.0		, 1	3	1470 ×	2	3	6720		15536	3.04	879
;			- Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Cons	1																				

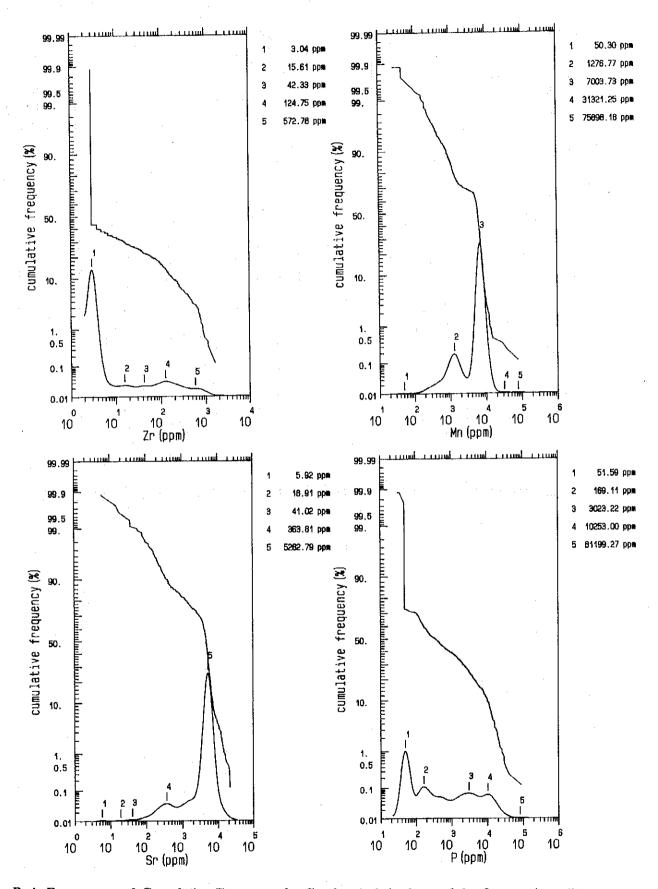
B-4 Scatter Diagrams for Geochemical Analyses of the Orange Area



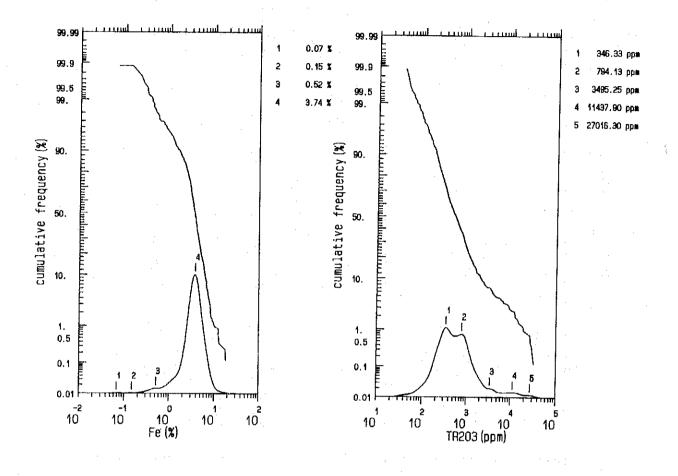
B-4 Frequency and Cumulative Frequency for Geochemical Analyses of the Orange Area (1)



B-4 Frequency and Cumulative Frequency for Geochemical Analyses of the Orange Area (2)

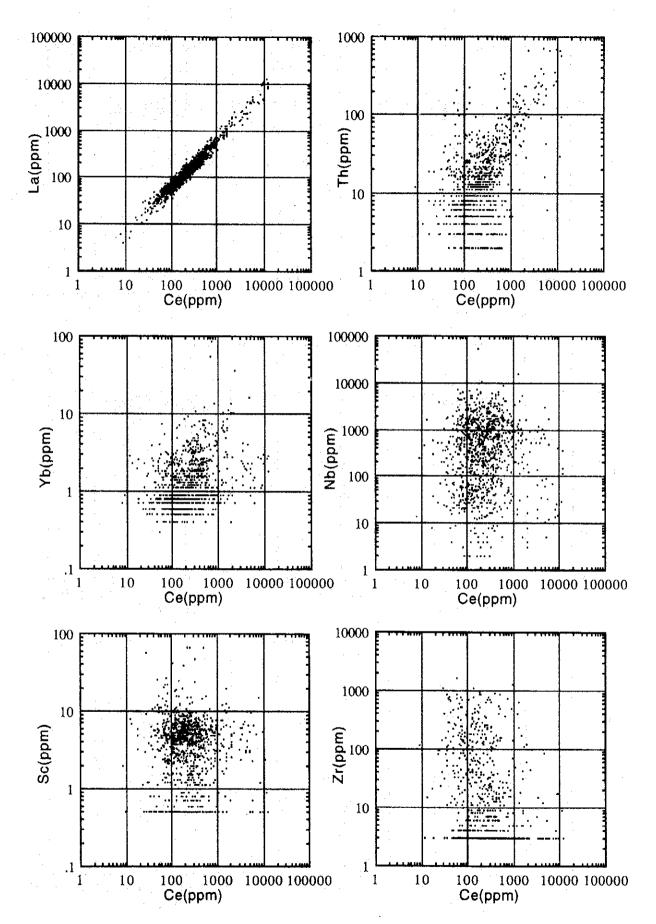


B-4 Frequency and Cumulative Frequency for Geochemical Analyses of the Orange Area (3)

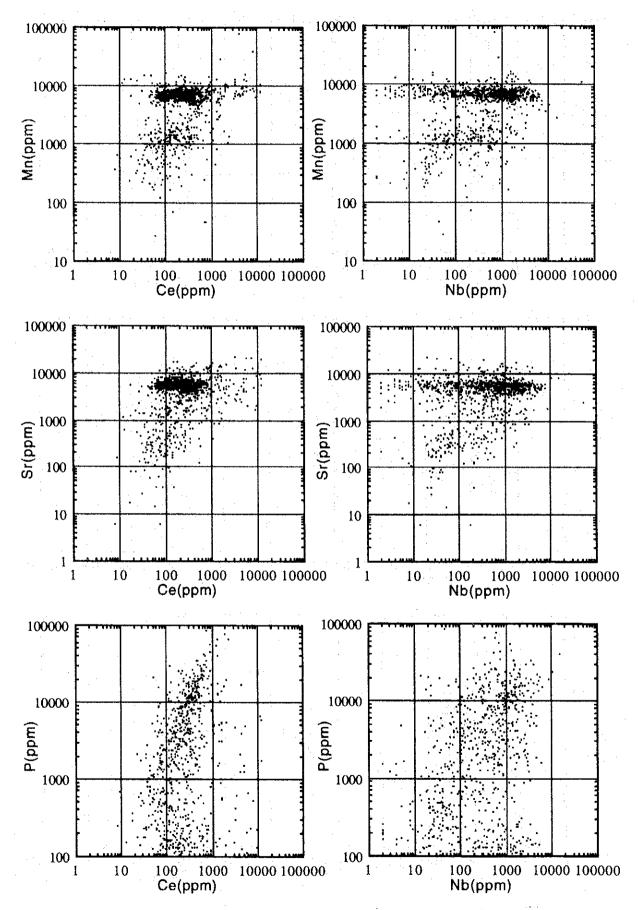


B-4 Frequency and Cumulative Frequency for Geochemical Analyses of the Orange Area (4)

B-5 Frequency and Cumulative Frequency for Geochemical Analyses of the Orange Area



B-5 Scatter Diagrams for Geochemical Analyses of the Orange Area (1)



B-5 Scatter Diagrams for Geochemical Analyses of the Orange Area (2)

B-6 Drilling Logs of the Orange Area

M J N (Depth	Geologic	Rock Name	Description	Teath-	Sampling Number		0 ∼ 1 Samplin Interva	g l
	Colum	& (Rock Code)		ering	t (Type of Test)	From	to (m)	Width (m)
(m)	# - # - # - # - #	(Kock Code)	0, 0m-6, 5m		KINI a OI Test	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\/	\ <u>#</u> Z
. 5		weathered beforsite (Mcbl)	light brown (5YR 5/6)to light brownish gray (5YR 6/1) beforsite(\$\phi=2\$ to 3mm) with brownish Fe hydroxides	2	1-5(G)	5.0	5. 5	0.5
	* * * * *		6.5-35.0■		1.			
	# # # # #		12-14 (NO)		1-10(0)	10.0	10.5	0.5
10	# # # # # # # # # # #		very light gray (N8) beforsite(φ=2 to 3mm) with dark green, dusky brown, and black minrals which are impregnated(φ=2 to 3 mm) and scattered(d=3 to 5cm)		1-15(6)	15. 0	15.5	0.5
10	# # # # # # # # # #		clear flow banding(< 60 to 70°)					
20					1-20(G, W)	20.0	20.5	0.5
		beforsite		0		1		
	* * * * *				1T-1(T)	25.0	25.1	0.1
25		*	24.5-28.0m rich in scattered dusky brown (5YR 2/2) minerals(φ=2 to 5cm)		1-25(G) 1X-1(X)	25. 0 26. 0	25.5 26.1	0.5 0.1
30			30.4-31.4	•	1-30(G, W)	30.0	30.5	0.5
30	, , , , , , , , , , , , , , , , , , ,		rich in impregnated pyrite(ϕ =1 to 2mm)	:	1 00(01 4)	00.0	00.0	""
35	* * * * *				1-35(G)	35.0	35.5	0.5
33	A-4-4-4-4		35.0-40.5■		1 00(0)	55.5	55.5	""
. 40	#•#•#•#•# #•#•#•#•# #•#•#•#	weathered beforsite (Mcbl)	light brownish gray (5YR 6/1) to brownish gray (5YR 4/1) beforsite(\$\phi\$ = 2 to 3mm) with brownish Fe hydroxides	1	1-40(6)	40.0	40.5	0.5
			40.5-52.0m very light gray (N8) beforsite (ϕ =2 to					
45			3mm) with black, dusky brown, and dark green minerals which are dotted(d=2 to 3mm and spotted(d=5 to 30 cm), and with a few pyrites(φ=1 to 2mm) ∠60°	0	1-45(G, W) 1R-1(I)	45. 0 45. 0	45. 5 45. 1	0.5 0.1
50	# # # # #	4.	40.5-42.0m & 48.0-50.6m rich in dark green, dusky brown, and black minerals(ϕ =1 to 3mm)		1-50(G)	50.0	50.5	0.5
	• • • • • • • • • • • • • • • • • • • •		clear boundary (∠45°)					
55			52.6-66.0m very light gray(N8) brecciated arkose (φ=1 to 2mm) with beforsite networks		1-\$5(G)	55.0	55.5	0.5
60			which matrix is rich in black and dusky minerals		1-60(G, W) 1X-2(X)	60.0	60.5 60.1	0.5 0.1
	· · · · · · · · ·		1		1 2 /			•••
65					1-65(G)	65.0	65.5	0.5
1 00		brecciated		1		"""	"""	"."
		arkose	66.0-81.5m					
70		(Nsh)	light gray(N7) brecciated arkose (φ=1 to 2mm) with a few light gray		1-70(6)	70.0	70.5	0.5
'			beforsite veinlets (10 to 30 cm wide)					
-			which contain a few black and dusky brown minerals		ļ			
75		ļ			1-75(G)	75.0	75.5	0.5
			67.0-70.6m & 76.5-80.5m		1	1		
			brown to light brown fractured arkose]		
80				+	1-80(G)	80.0	80.5	0.5
85			81.5-91.5m light gray(N7) massive arkose $(\phi = 1 \text{ to } 2mm)$ with pyrite dissemination		1T-3(T)	85.0	85.1	0.1
		1	84.0m & 87.5m calcite veinlets(5mm wide)					
90		arkose (Nsh)		1		1	1	
1.		`	91.5-95.5m	1		1		
95		.]	pale red(10R 6/2) massive arkose with pale red Fe oxides dissemination					
"	• • • • • • • • • • • • • • • • • • • •	.[95.5-109.6m		1			
1]	light gray(N7) arkose (\$\phi = 1\$ to 2mm max. 5mm) with pyrite dissemination	1				
100	ļ		Ammy after blyric grasomingcion				1	

Remarks: (C):Geochemical Analysis, (T):Thole Rock Analysis, (T):Polished Thin Section, (E):EPMA Analysis (X):X-ray Diffraction Analysis, (1):Oxygen and Carbon Isotope Analysis

Weathering: O:fresh, 1:weakly altered, 2:moderately altered 3:strongly altered

B-6 Drilling Logs of the Orange Area (1)

-1			<u> </u>	Sampling		0 0 ~ 1 Samplin	g
Geologic Colum	Rock Name	Description	Weath- ering	Number &	From	interva to	Tidth
	(Rock Code)	95.5-109.6		(Type of Test)	. (■)	(1)	(#)
		light gray(N7) arkose ($\phi = 1$ to 2mm max.		in the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of			
	arkose (Nsh)	5mm) with pyrite dissemination	1				
		clear boundary (∠60°)		1 110703	1100	110 5	0. !
> > > > > >		109.6-114.7m very light gray(N8) carbonated syenite (φ = 2 to 3mm) with calcite(sovite).		1-110(G)	110.0	110.5	0. :
>>>> >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		pyrite, black, and dusky brown minerals 109.6-118.7m very light gray(N8) carbonated syenite		1-115(G)	115.0	115.5	0.
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>		$(\phi = 2 \text{ to } 3\text{mm})$ with black minerals		1-117(G)	117.3		0.
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	1 ,	118.7-122.5m very light gray carbonated syenite with calcite(sovite)		1-120(G, T) 1-122(G)	120.0	120.5	0.
> > > > > > > > > > > > > > > > > > >		122.5-123.5m very light gray(N8) carbonated syenite with black minerals		1-125(G)	125.0		0.
> > > > > > > > > > > > > > > > > > >		123.5-125.5m very light gray carbonated syenite with calcite(sovite)	0	1X-3(X) 1-127(G)	126.0 127.3	126. I 127. 8	0
	carbonated	125.5-129.5m very light gray carbonated syenite with abundant black and sufides		1-130(G, W) 1T-4(T)	130.0 131.5		0. 0.
· > > > >		minerals 130.0-131.0m clear flow banding(∠45°) very light gray carbonated syenite		1-132(G) 1-135(G)	132.3	132. 8	0.
· > > > > > > > > > > > > > > > > > > >		with calcite(sovite) 131.0-138.0m		1-137(G)	137.3		0.
> > > > > > > > > > > > > > > > > > >		very light gray(N8) carbonated syenite $(\phi = 2 \text{ to } 3 \text{mm})$ with abundant black and sulfides minerals		1-140(G, V)	140.0	140.5	0.
> > > > > > > > > > > > > > > > > > >		138.0-150.4m very light gray(N8) carbonated syenite (φ=2 to 3mm) with abundant dark green,		1-145(G) 1-147(G)	145.0 147.3		0. 0.
> > > > > >		pale green, brown, and sulfides minerals		1T-5(T) 1X-4(X) 1-150(G, W)	148.4 148.4 150.0	148.5	0. 0. 0.
) 		150. 4a	<u> </u>	1.100(0, 4)	1.00.0	1.00.0	
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B-6 Drilling Logs of the Orange Area (2)

MJN	0 ~ 2			<u> </u>	Sampling		0 ~ 1 (Samplin	
Depth			Description	Teath-	Number		Interva	1
(m)	Colum	& (Rock Code)		ering	& (Type of Test)	From (m)	to (m)	Width (m)
5	# + # + # + # + # # + # + # + # + # # + # +		0.0-9.0m dusky brown(5YR 2/2) to grayish brown (5YR 3/2) ankeritic beforsite(ϕ =2 to 3 mm) with dark green blocks (d=2 to 3mm,		2-0(G) 2-5(G)	0. 0 5. 0	0. 3 5. 5	0.3 0.5
-10	#		max. $10cm$) which contain pale green clayey mineral, black Fe oxide, and brown hydroxide(ϕ =1 to 2mm)		2-10(G)	10.0	10. 5	0.5
15	#	beforsite	9.0-31.0m dusky brown(5YR 2/2) to grayish brown. (5YR 3/2) partly dusky red(5R 3/4)	1	2T-1(T) 2-15(G)	15. 0 15. 0	15. 1 15. 5	0. 1 0. 5
20	#+#+#+#+# #+#+#+# #+#+#+#	(Nobl)	ankeritic beforsite(ϕ =2 to 3mm max.5mm) with dusky red to black Fe oxides and brown minerals(ϕ =1 to 2mm)		2-17(G) 2-20(G, W)	17. 3 20. 0	17. 8 20. 5	0.5 0.5
	# + # + # + # + # # + # + # + # + # # + # +	. *			2-22(G)	22. 3	22. 8	0.5
25	# + # + # + # + # + # # + # + # + # + # # + # +	4			2-25(G) 2-27(G)	25.0 27.3	25. 5 27. 8	0. 5 0. 5
30	#				2-30(G, W)	30.0	30. 5	0. 5
35	# • # • # • # • # • # • # • # • # • # •		31.0-49.0m light brownish gray(5YR 6/1) beforsite (φ=2 to 3mm) with black, dusky brown minerals rich part(d=3 to 5cm max. 20cm)		2-32(G) 2X-1(X) 2-35(G)	32. 3 32. 2 35. 0	32. 8 32. 3 35. 5	0.5 0.1 0.5
	# • # • # • # • # # • # • # • # • #	+ .	partly contain dark to pale green rich parts		2-37(G)	37. 3	37. 8	0.5
40	# • # • # • # • # # • # • # • # • # # • # •				2-40(G, T) 2-42(G)	40.0 42.3	40.5	0.5 0.5
45	# - # - # - # - # # - # - # - # - #		46.5-49.0m		2-45(G)	45.0	45.5	0.5
50	# - # - # - # - # # - # - # - # - # # - # -		fractured zone		2-47(G) 2-50(G, W)	47.3 50.0	47. 8 50. 5	0.5 0.5
	# - # - # - # - # - # - # - # - # - # -	weathered beforsite (Mcbl)	49.0-68.5m grayish brown(5YR 3/2) to dusky brown (5YR 2/2) beforsite(ϕ =1 to 2mm), fractured with brown Fe hydroxides(ϕ =1 2mm) and partly black Fe oxides	1	2-55(G)	55.0	55.5	0.5
60	# - # - # - # - # # - # - # - # - #		Zamu) and partry brack re oxides		2-60(G, W)	60.0	60.5	0.5
65	# · # · # · # · # # · # · # · # · # # · # ·		68.5-71.5m light brownish gray beforsite		2-65(G, W)	65.0	65. 5	0.5
70	# • # • # • # • # # • # • # • # • # # • # •		with black and dusky brown minerals		2-70(G, W)	70.0	70.5	0.5
75	#+#+#+#+# #+#+#+#+# #+#+#+#	ankeritic beforsite (Ncbl)	71.5-77.5m grayish brown to dusky brown ankeritic beforsite(φ=1 to 2mm)	1	2-72(G) 2-75(G, T)	72.3 75.0	72. 8 75. 5	0.5 0.5
.,	# # # # # # # # # # # #				2T-2(T) 2-77(G)	75.0 77.3	15. 0 77. 8	0. 1 0. 5
80			77.5-120.0m		2-80(G)	80.0	80.5	0.5
85	* # # # # * # # # # # # # # #	beforsite	light gray(N7) to brownish gray(SYR 4/1) to dark gray(N4) beforsite(ϕ = 1 to 2mm) with black Fe oxide, brown phlogopite and white mica fractured(clayey, sandy to powdery)	1				
90						e cermina		
95					2-95(G)	95.0	95.5	0.5
100	9 # # # # # # # # #					<u> </u>	<u></u>	<u> </u>

B-6 Drilling Logs of the Orange Area (3)

JNC) - 2				Sampling	1 0	$0 \sim 1.5$ Samplin	0 m
epth	Geologic	Rock Name	Description	Weath- ering	Number	From	Interva to	l Tidth
(m)	Colum	(Rock Code)	77 - 100 0	ciing	(Type of Test)	(a)	(m).	(R)
		-	77. 5-120. 0 m		•			
105	# # # # #				•	;		
	* * * * *		light gray(N7) to brownish gray(5YR 4/1) to dark gray(N4) beforsite(\$\phi\$=1 to 2mm)					
110	# # # # # # # # # #		with black Fe oxide, brown phlogopite and white mica		2-109(G)	109.0	109.5	0.5
			fractured(clayey, sandy to powdery)				·	
115								
•••		fractured			2X-2(X)	118.0	118.1	0.1
100	#####	beforsite (Mcbl)		ì	Lit D(N)	110.0	110.1	".
120	* * * * *	(MCDI)	120.0-136.0m		0 100/6)	100 0	100 5	0.5
			very light gray (N8) to light brownish gray(5YR 5/6) beforsite($\phi = 1$ to 2mm)		2-122(G)	122.0	122.5	0.5
125	, , , , , , , , , , , , , , , , , , ,		fractured(clayey, powdery and sandy)		a.i. a.c.u.s			
					2X-3(X)	127.0	127. 1	0.1
130								
	# # # # # # # # # #							
135	# # # # # # # # # #				2-135(G) 2X-4(X)	135.0 135.0	135.5 135.1	0.5 0.1
٠.	Y							
140	r , , , ,	*.	136.0-150.4m					
	Y Y Y Y Y	trachyte dyke	very light gray quartz(φ=1 to 2mm) trachyte dyke, altered siliciously	1				
145			traceyed dyke, artered strictousty		•			1 : 5
	V. V, V V							}
150	Y	<u> </u>	150.4					
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		1						
				1.12		. , .		
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				1				
					<u> </u>]	<u> </u>

B-6 Drilling Logs of the Orange Area (4)

MJNO	O - 3 Geologic	Pock Nome	Dogoviation	No - 2 5			0 ~ 1 (Samplin	g
veptn (ma)	Colum	Rock Name & (Rock Code)	Description	Weath- ering	Sampling Number	From	lnterva to	Width
	#•#•#•#•#	weathered beforsite	0.0-4.5m l gray(N7) to light brwonish gray beforsite(φ=2mm max.5mm) with Fe	i	3-0(G)	(m) 0.0	(n) 0.3	(m) 0.3
5	#•#•#•#•# #•#•#•# #•#•#	ankeritic beforsite	oxides spots(d=2 to 3cm) to networks 4.5-9.4m grayish brown(5YR 3/2) ankeritic beforsite(\$\phi\$=2 to 3mm max.5mm)	1	3-5(G) 3X-1(X)	5. 0 5. 7	5. 5 5. 8	0. 5 0. 1
	# 1 # 1 # 1 # 1 # 1 # # 1 # 1 # 1 # 1 # # 1 # 1		9.4-12.5m very light gray beforsite with sulfides, black and dusky red Fe oxides 12.5-13.3m light brwnish gray beforsite		3-10(G)	10.0	10.5	- 0.5
	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich	13. 3-16. On very light gray beforsite with sulfides dissemination 16. 0-17. 4m light brwonish gray beforsite 17. 4-20. 4m very light gray(N8) beforsite	0 to 1	3-15(G)	15.0	15.5	0.5
20	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	(Nebl)	$(\phi$ = 5 to 15mm) with sulfides and grayish brown Fe hydroxides(d=5 to 15mm) 20.4-25.4m very light gray(N8) beforsite $(\phi$ = 5 to 15mm) with sulfides, black Fe		3-20(G, Y) 3R-1(1) 3X-2(X)	20. 0 23. 2 23. 2	20.5	0.5 0.1
25	#1#1#1#1# #1#1#1#1# #•#•#•#		oxides, brownish gray Fe hydroxides(d= 5 to 15mm) 25.4-27.3m light brownish gray beforsite (φ= 5 to 15mm)	1	3T-1(T) 3-25(G)	23. 4 25. 0	23. 3 23. 5 25. 5	0. I 0. I 0. 5
30	#1#1#1#1#	sulfides-rich beforsite(Mcbl)	27.3-30.3m very light gray beforsite (ϕ = 5 to 15mm) with sulfides and Fe oxide. 30.3-46.0m	0	3-30(G)	30.0	30.5	0.5
35			light brownish gray(5YR 6/1) beforsite (ϕ =1 to 2mm max.10mm) with gray brown Fe hydroxides(d= 3 to 5cm)		3-35(6)	35.0	35. 5	0.5
40	# • # • # • # • # # • # • # • # • # # • # •			1	3-40(G, W)	40.0	40.5	0.5
	# • # • # • # • # # • # • # • # • # # • # •		46.0-52.0m		3-45(G)	45.0	45.5	0.5
50		sulfides-rich beforsite (Ncbl)	very light gray(N8) beforsite(\$\phi=2\$ to 3 mm max. 20mm) with sulfides and black Fe oxides. 52.0-53.3m light brownish gray beforsite	0	3-50(G)	50.0	50.5	0.5
55	#•#•#•#•# #1#1#1#1#	beforsite(Mcb1) sulfides-rich beforsite(Mcb1) weathered	$(\phi = 3 \text{ to 50mm max. 30mm})$ $53.3-56$. Im very light gray beforsite $(\phi = 3 \text{ to 50mm})$ with sulfides and Fe oxide $56.1-60$. Im	0	3-55(G)	55.0	55. 5	0.5
60	# - # - # - # - # # - # - # - # - #	beforsite (Mcbl) sulfides-rich	light brownish gray(5YR 6/1) beforsite $(\phi = 2 \text{ to } 3\text{mm})$ with brown Fe hydoxides 60.1-63.0m very light gray(N8) beforsite $(\phi = 2 \text{ to } 3\text{mm})$ with sulfides, Fe oxide,	1	3-60(G, W)	60.0	60.5	0.5
65	#1#1#1#1# #•#•#•#•# #•#•#•#•#	(Ncbl) weathered beforsite	light brown and pale green minerals 63.0-69.0m clear flow banding (\angle 70°) light brownish gray(5YR 6/1) beforsite (ϕ = 2 to 3mm max. 20mm) with grayish	1	3-65(G)	65.0	65.5	0.5
70	#•#•#•#•# #1#1#1#1# #1#1#1#1# #1#1#1#1#	(Mcbl)	brown Fe hydoxides 69.0-82.3m clear flow banding (∠70°) very light gray(N8) beforsite(\$\phi = 3\$ to		3-70(G) 3T-3(T)	70.0 70.0	70.5 70.1	0.5 0.1
75	#1#1#1#1#	sulfides-rich beforsite (Mcbl)	5mm max. 20mm) with dotted sulfides, black Fe oxides, light brown and pale green minerals	0	3-75(G) 3T-4(T, E)	75. 0 77. 0	75. 5 7. 1	0.5 0.1
80	#1#1#1#1# #1#1#1#1# #1#1#1#1#		clear flow baniding(∠80-90°)		3-80(G, W)	80.0	80.5	0.5
85	#•#•#•#•# #•#•#•#•# #•#•#•#•# #1#1#1#1#	weathered beforsite (Ncbl)	82.3-85.5m light brownish gray(5YR 6/1) beforsite (φ=1 to 2mm) with brwon Fe oxides 85.5-90.0m very light gray(N8) beforsite	1	3-85(G)	85.0	85.5	0.5
90	#1#1#1#1# #1#1#1#1# #•#•#•#•#	sulfides-rich beforsite (Ncbl)	$(\phi=1$ to 2mm) with dotted sulfides, black Fe oxides, light brown and pale green minerals 90.0-98.2m	0	3R-3(1) 3-90(G)	89. I 90. 0	89. 2 90. 5	0. 1 0. 5
95	# • # • # • # • # # • # • # • # • # # • # •	weathered beforsite (Ncbl)	light brownish gray(5YR 6/1) beforsite (ϕ =1 to 2mm) with grayish brown Fe oxides	1	3-95(G)	95.0	95.5	0.5
	#2#2#2#2#	e oxides-rich peforsite(Mcbl)	98.2–106.9m light bwnish gray beforsite with Fe oxide and Fe hydroxides	1	3-100(G, W)	100.0	105.5	0.5

B-6 Drilling Logs of the Orange Area (5)

JNC) - 3			T	<u>. </u>		00~1 Samplin	g
epth ()	Geologic Colum	Ł	Description	Weath- ering	Sampling Number	From (m)	Interva to (m)	l Width (m)
	#2#2#2#2# #2#2#2#2#	(Rock Code) Fe oxides-rich	98.2-106.9m light brownish gray(5YR 5/6) beforsite	1		\ <u>\\\</u>	<u> </u>	- \- 2
105	#2#2#2#2# #2#2#2#2#	beforsite (Ncbl)	$(\phi = 1 \text{ to } 2mm)$ with dotted black Fe oxides, grayish brown Fe hydroxides		3-105(G)	105.0	105.5	0.5
	#+#+#+#+# #+#+#+# #+#+#+#	ankeritic	106.9-112.0m graysih brownish(5YR 3/2) to yellowish brown(10YR 4/2) ankeriteic beforsite(ϕ =	1				
110	#+#+#+#+# #+#+#+#+#	(Mcbl)	1 to 2mm max. 5mm) with graysih brown Fe oxides		3-110(C)	110.0	110.5	0.5
	#•#•#•#•# #1#1#1#1#		112.0-120.6m light brwonish gray(5YR 6/1) to brownish		3-115(G)	115 0	115.5	0.5
	# • # • # • # • # # 1 # 1 # 1 # 1 # # • # • # • # • #	beforiste	gray(5YR 4/1) beforesite(ϕ =1 to 2mm) with graysih brown Fe hydroxides, black	1	3-113(0)	110.0	110.0	0.0
120	#1#1#1#1# #:#:#:#:#		Fe oxides, and sulfides 120.6-121.8m very light gray beforsite	ļ ₀	3-120(G. W)	120.0	120.5	0.5
		beforsite(Ncbl)	$(\phi = 1 \text{ to } 2mm)$ with sulfides and Fe oxide	<u> </u>			٠.	
125	#1#1#1#1# #•#•#•#	•			3-125(G)	125.0	125.5	0.5
	#1#1#1#1# #•#•#•#•# #1#1#1#1#				3-130(G)	130.0	130.5	0.5
	#•#•#•#•# #•#•#•#•#		112.0-120.6m					
135		weathered and sulfides-rich beforsite	1 brwonish gray(5ΥR 6/1) to brownish gray(5ΥR 4/1) beforsite(φ=1 to 2mm) with graysih brown Fe hydroxies, black	1	3-135(G) 3x-3(X)	135.0 135.0	135. 5 135. 1	0.5 0.1
	#1#1#1#1# #•#•#•#	(Ncbl)	Fe oxides, and sulfides					
	#1#1#1#1# #•#•#•#•# #1#1#1#1#				3-140(G, T) :	140.0	140.5	0.5
	#•#•#•#•# #•#•#•#•#				3-145(G)		145.5	0.5
	#1#1#1#1# #•#•#•#•# #•#•#•#				3T-5(T) 3R-5(I)	146.7 146.7		0.1
150	#1#1#1#1#		150.3m		3-150(G)	150.0	150.5	0.5
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						,		
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B-6 Drilling Logs of the Orange Area (6)

MJNO) - 4	<u> </u>		l	Sampling		$0 \sim 10$ Samplin	g
Depth	Geologic Colum	Rock Name &	Description	Weath- ering	Number &	From	Interva to	l Ridth
(m)		(Rock Code)	·		(Type of Test)		(m) 0.3	(m)
			0.0-14.3m light brownish gray(5YR 5/6) to very light gray(N8) beforsite(ϕ =1 to 2mm) with spots(5×20cm) by graysih brown Fe	1	4-0(6) 4-5(6)	5.0	5.5	0.3
	# - # - # - # - # # - # - # - # - # # - # -		hydroxides		4-10(G)	10.0	10.5	0. 5
	#1#1#1#1# #1#1#1#1# #1#1#1#1# #1#1#1#1#	sulfides-rich beforsite	14.3-20.3m clear flow banding (∠70°) very light gray(N8) beforsite (φ=1 to 2 mm) with dotted to spotted (d=2 to 3cm) sulfides, brownish black Fe oxides,	0	4-15(G) 4T-4(T)	15.0 15.0	15. 5 15. 1	0.5 0.1
	#1#1#1#1# #2#2#2#2# #2#2#2#2# #2#2#2#2#	·	and a few yellowish brown minerals 20.3-30.5m clear flow banding(∠70°) very light gray(N8) beforsite(ø=1 to 2		4-20(G, W) 4X-1(X) 4T-1(T)	20.0 20.6 20.6	20. 5 20. 7 20. 7	0.5 0.1 0.1
	#2#2#2#2# #2#2#2#2# #2#2#2#2#	(Mcbl)	mm) with dotted to spotted(d=2 to 3cm) black Fe oxides, yellowish brown minerals and a few sulfides	0	4-25(G)	25.0	25.5	0.5
	#2#2#2#2# #1#1#1#1# #1#1#1#1# #1#1#1#1#		30.5-37.5m very light gray(N8) beforsite(φ=1 to 2	0	4-30(G, W) 4T-2(T)	30. 0 30. 0	30. 5 30. 1	0. 5 0. 1
	#1#1#1#1# #1#1#1#1# #1#1#1#1# #2#2#2#2#	(Ncbi)	mm) with dotted sulfides and black Fe oxides(φ=1 to 2mm) 37.5-45.0m		4-35(G) 4R-1(1)	35. 0 35. 0	35. 5 35. 1	0.5 0.1
40	#2#2#2#2#	Fe oxides-rich beforiste	very light gray(N8) beforsite(ϕ =2 to 3 mm max.10mm) with dotted black Fe oxides (1 to 2mm)and a few sulfides(d=1 to 2mm) partly light grayish brown weathered	0 to 1	4-40(G. W)	40.0	40.5	0.5
	#2#2#2#2# #•#•#•#•# #•#•#•#•#		beforsite with Fe hydoroxides spots		4-45(6)	45.0	45.5	0.5
	# # # # # # # # # # # # # # # # # # #	weathered beforsite	45.0-66.0m. light brownish gray(5YR 6/1) to light gray(N7) beforsite(ϕ =1 to 2mm, max10mm) with grayish brown Fe hydroxides spots	1	4-50(6)	50.0	50.5	0.5
	# - # • # • # - # # # # # # # # - # - # - # - #	,,	(d=5 to 10cm)		4-55(G)	55.0	55. 5	0.5
60	# - # - # - # - # # # # # # #		66. 0-72. 0m		4-60(G, W)	60.0	60.5	0.5
65 70		beforsite (Ncbl)	very light gray(N8) beforsite(ϕ =2 to 3 mm max.10mm) with a few dotted sulfides and black Fe oxides(ϕ =1 to 2mm)	0	4-65(G) 4-70(G)	65.0	65. 5 70. 5	0.5
75	# # # # # #•#•#•#•# # # # #	weathered beforsite (Ncb1)	72.0-78.5m light brownish gray(5YR 6/1) to light gray(N7) beforsite(\$\phi\$=1 to 2mm, max.50mm) with grayish brown Fe hydroxides spots (d=5 to 10cm)	1	4-75(G)	75.0	75. 5	0.5
80			78.5-84.0m very light gray(N8) beforsite(φ=2 to 3 mm max.20mm) with a few dotted sulfides	1	4-80(G. W)	80.0	80.5	0.5
85	# # # # # # # # # # # # # # # # # #	beforsite (Mcbl)	and black Fe oxides(ϕ =1 to 2mm) 84.0-86.0m light brownish gray beforsite (ϕ =2 to 3mm max.20mm) with Fe hydroxide 86.0-93.0m	0	4-85(G)	85.0	85. 5	0.5
90	# # # # # # # # # # # # # # #		very light gray(N8) beforsite(ϕ =2 to 3 mm max.10mm) with a few dotted sulfides and black Fe oxides(ϕ =1 to 2mm)		4-90(G)	90.0	90.5	0.5
95	#•#•#•#•# # # # # # # #•#•#•#•# # # # #	beforsite (Mcbl)	93. 0-101.5m light brownish gray(5YR 6/1) to light gray(N7) beforsite(ϕ =2 to 3mm, max. 10mm) with grayish brown Fe hydroxides spots (d=5 to 10cm)	1	4-95(G)	95.0	95.5	0.5
100					4-100(G, N)	100.0	105.5	0.5

B-6 Drilling Logs of the Orange Area (7)

Column	0.5 0.5 0.5
Colum (Rock Code) Colum (Rock Code)	0.5 0.5 0.5
101.5-106.0m	0. 5 0. 5 0. 5
101.5-106.0m very light gray(N8) beforsite (\$\phi = 1\$ to 2 0	0. 5 0. 5 0. 5
106.0-122.0m	0.5
T - T - T - T - T - T Weathered before ite Bray(N7) before ite(φ = 2 to 3mm, max. 50mm) 1	0.5
120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.5 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0 120	0.5
# # # # # beforsite very light gray(N8) beforsite(φ=1 to 2 nm max. 5ma) with a few dotted sulfides and black Fe oxides(φ=1 to 2mm) # # # # # weathered light brownish gray(5YR 6/1) to light # # # # # # weathered light brownish gray(5YR 6/1) to light # # # # # # # (Ncbl) with grayish brown Fe hydroxides spots # # # # # # beforsite (φ=1 to 2mm, max. 5mm) # # # # # # light gray beforsite (φ=1 to 2mm, max. 5mm) # # # # # # light gray beforsite (φ=1 to 2mm, max. 5mm) # # # # # # light gray beforsite (φ=1 to 2mm, max. 5mm) # # # # # light gray light gray beforsite (φ=1 to 2mm, max. 5mm) # # # # # beforsite (φ=1 to 2mm, max. 5mm) # # # # # beforsite (φ=1 to 2mm, max. 5mm) # # # # # beforsite (φ=1 to 2mm, max. 5mm) # # # # # beforsite (φ=1 to 2mm, max. 5mm) # # # # # beforsite (φ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # beforsite (σ=1 to 2mm, max. 5mm) # # # # # # beforsite (σ=1 to 2mm, max. 5mm)	
# # # # # weathered light brownish gray(5YR 6/1) to light beforsite gray(N7) beforsite(\$\phi = 1\$ to 2mm, max. 5mm\$) 1 4-130(G) 130.0 130.5 # # # # # # beforsite (\$\phi = 1\$ to 10cm) 132.5-136.5m very light gray beforsite (\$\phi = 1\$ to 2mm max. 5mm) with a few dotted 0 4-135(G) 135.0 135.5	0.5
# # # # # beforsite $(\phi = 1 \text{ to } 2 \text{mm max. 5 mm})$ with a few dotted 0 4-135(G) 135.0 135.5	
# * # * # * # 136.5 - 143.0m	0.5
# # # # # # # # # # # # # # # # # # #	0.5
# # # # # clear flow banding (<60 to 70°) 45 # # # # #	0.1
#1#1#1#1# (Mcbl) clayey, greenish gray minerals(ϕ =1 to 50 #1#1#1#1#1 3 mm) 4-150(G) 150.0 150.5	0.5
	1
	1
	1

B-6 Drilling Logs of the Orange Area (8)

) - 5		B	2 b	Sampling Number		Samplin Interva	
epth	Geologic Colum	Rock Name &	Description	Teath- ering	å	From	to	Yidth
(<u>*</u>)	K · # · # · # · #	(Rock Code)		···	(Type of Test) 5-0(G)	(a) 0.0	(n) 0.3	(m) 0.3
ļ	# * # * # * #				0 0(0)	0.0		4,0
	# • # • # • # • # # • # • # • # • #				5-5(0)	5.0	5.5	0.5
J	**#*#*#*#			· .	0 000	0.0	0.0	
	#•#•#•#•#		0.0-24.0m					
10	F . # . # . # . #	•	grayish brown(5YR 3/2) to brownish gray		5-10(G)	10.0	10.5	-0.5
		weathered beforiste	(5YR 4/1) beforsite(≠ =1 to 2mm, max.3 cm) with dark green rock breccia(d=3 to	1				
	H • H • H • H	(Mcb1)	Sem max. 10cm)			1		٨
	#•#•#•#•# #•#•#•#•#		white calcite veinlets(W=1 to 2mm)		5-15(G)	15.0	15.5	0.
	# • # • # • # • #		:					
20	F · R · R · R · R				5-20(G)	20.0	20.5	0.
_	# • # • # • # • #					-		
İ	# • # • # • # • # # • # • # • # • #	•			·			
-	#3#3#3#3#	***************************************	24.0-34.0m		5-25(C)	25.0	25.5	0.
	#3#3#3#3# #3#3#3#3#		light gray(N7) beforsite(φ=1 to 3mm)		,			
	#3#3#3#3# #3#3#3#3#	phlogopite-rich beforiste	with irregular spots(d= 2 to 3cm max.10 cm) by dark green minerals, and with	0	5-30(G, N)	30.0	30.5	0.
	#3#3#3#3#	(Mcbl)	dots(d=1 to 2 mm) by yellowish brown,		0 00(0, 1)	00.0	00.0	•
	#3#3#3#3# #3#3#3#3#		and pale green minerals			!		
	LLLLL				5-34(G)	34.0	34.5	0.
		dolerite dyke	34.0-39.0m dark green dolerite dyke	1	5X-1(X)	35.0	35-1	0.
	LLLLL	(Kdd)			r 40(0 T)	40.0	40 5	,
	#3#3#3#3# #3#3#3#3#		39.0-41.5m light greenish gray beforsite		5-40(G, T)	40.0	40.5	0.
	#3#3#3#3#		with pale to dark green . and brownish				-	
	#3#3#3#3# #3#3#3#3#		black Fe oxide minerals 41.5-55.0m		5-45(G)	45.0	45.5	0.
	#3#3#3#3#	nhlaganita righ	light greenish gray(5GY 8/1) beforsite (φ=1 to 2mm, max.10mm) with spots(d=3		5-47(G)	47.3	47.8	0.
	#3#3#3#3#		to 5cm, max 40cm) of dark green, black,	0				
	#3#3#3#3# #3#3#3#3#	(Mcbl)	pale to dark green, and dark yellowish minerals		5-50(G, T)	50.0	50.5	0.
	#3#3#3#3#							
	#3#3#3#3# #3#3#3#3#	٠.	clear flow banding(∠70°)		5-55(G)	55.0	55.5	0.
	#3#3#3#3#		55.0-59.7m		5X-2(X)	55.0	55. 1	ŏ.
	#3#3#3#3# #3#3#3#3#		light greenish gray beforsite(ϕ =1 to 2mm max.10mm) with spots(d=3 to 30cm max.1m)					
	#3#3#3#3#		of dark green and black minerals		5-60(G, T)	60.0	60.5	0.
	#2#2#2#2# #2#2#2#2#							
	#2#2#2#2#				5-65(G)	65.0	65.5	,
	#2#2#2#2# #2#2#2#2#							0.
	#2#2#2#2# #2#2#2#2#		59.7-83.8m clear flow banding(∠70°) very light gray(N8) beforsite(φ=1 to		5-67(G)	67.3	67.8	0.
70		Fe oxide-rich	2mm) with black Fe oxides and sulfides,	0	5-70(G, X)	70.0	70.5	0.
	#2#2#2#2# #2#2#2#2#	beforiste (Mcbl)	bearing spots(d=1 to 5cm) of dark green minerlas					
	#2#2#2#2#							١.
	#2#2#2#2# #2#2#2#2#		clear flow banding(∠70°)		5-75(G)	75.0	75.5	Q.
	#2#2#2#2#							
80	#2#2#2#2# #2#2#2#2#		·		5-80(G, W)	80.0	80.5	0.
	#2#2#2#2#	,	weak flow banding(∠60°)					
	#2#2#2#2# #1#1#1#1#		83.8-86.2m very light gray beforeste(ϕ =		5E-1(T)	84.7	84.8	0.
85	#1#1#1#1# #1#1#1#1#	beforsite (Mcbl)	1 to 2mm) with dotted sulfides and dark green brecciated syenite(d=5 30cm)	0	5-85(G)	85.0	85.5	0.
	#2#2#2#2#	Fe oxide-rich	86.2-88.7m very light gray beforsite(φ=	0	ST-1(T)	88.5	88.6	0.
90	#2#2#2#2# #1#1#1#1#		1 to 2mm) with bk Fe ox and sulfides	 	5-90(G, T)	90.0	90.5	0.
	#1#1#1#1#		88.7-105.1m		5E-2(T)	92. 2	92.3	0.
	#1#1#1#1# #1#1#1#1#		clear flow banding(∠0°) very light gray(N8) to light gray(N7)	0	5-92(G)	92.3	92.8	0.
			beforsite(ϕ =1 to 2mm) with dotted	i .	5-95(G)	95.0	95.5	0.
95	#1#1#1#1#		aulfidan/numite	l .		ne i	000	
95	#1#1#1#1# #1#1#1#1#	· (Mcbl)	sulfides(pyrite, pyrhotite)		5T-2(T)	96.1	96.2	0.

B-6 Drilling Logs of the Orange Area (9)

10-5				Sampling		0 ~ 1 Samplin	g
h Geologic Colum	Rock Name	Description	Weath- ering	Number &	From	Interva to	Yidth
0 #1#1#1#1#	(Rock Code)	88.7-105.1m		(Type of Test)	(m)	(m)	(m)
#1#1#1#1# #1#1#1#1# 5 #1#1#1#1#		very light gray(N8) to light gray(N7) beforsite(φ=1 to 2mm) with dotted sulfides(pyrite, pyrhotite)	0	5-105(G)	105.0	105. 5	0.5
>>>>>	syenite	105.1-108.4m dark green metamorhosed syenite with	0				
0 + + + + +	(Nsu)	sulfides(pyrite, pyrhotite)					
+ + + + + + + + + +							1
5 + + + + +		٠.					:
+++++							
0							
1 1 1 1 1	micro-granite	108.4-150.3m very light gray quartz(ϕ = 1 to 2mm) because micro-granite with dotted	1				
+ + + + +	(Mgr)	beraing micro-granite with dotted sulfides(pyrhotite) and black Fe oxide					
++++0;						1.	
13							
+ + + + + + + + + + + + +					· ·		
5 + + + + +							
1111				1			
0 + + + +		150. 3m			<u> </u>		
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B-6 Drilling Logs of the Orange Area (10)

MJNO	O - 6				Sampling		0 ~ 1 (Samplin	
Depth	Geologic	Rock Name	Description	Weath-	Number		Interva	Ī.
(a)	Colum	& (Rock Code)		ering	& (Type of Test)	From (a)	to (m)	Yidth (m)
(8)	A · # · # · #	weathered	0.0-3.8		6-0(G)	0.0	0.3	0.3
	# - # - # - # - #	beforsite (Ncb2)	grayish brown(5YR 3/2) beforiste (φ=1 to 2mm)	2				
	#1#1#1#1#				6-5(G)	5.0	5.5	0.5
	#1#1#1#1# #1#1#1#1#1#		3.8-20.0m very light gray(N8) beforsite(φ=1 to 2					
10	#1#1#1#1#		mm max.5mm) with dotted sulfide(pyrite)		0 10(0 %)	10.0	10.5	ا م د
10	#1#1#1#1# #1#1#1#1#		and black Fe oxide minerals (ϕ =1 to 2mm) partly light brwonish gray weathered		6-10(G, T)	10.0	10.5	0.5
İ	#1#1#1#1# #1#1#1#1#			. :				
15	#1#1#1#1#				6-15(G)	15.0	15.5	0.5
	#1#1#1#1# #1#1#1#1#	sulfides rich	clear flow banding(∠60°)	0 to 1	6T-1(T)	17.5	17.6	0.1
	#1#1#1#1#	beforsite		0 .0 .				
20	#1#1#1#1# #1#1#1#1#	(Mcb2)			6-20(G)	20.0	20.5	0.5
	#1#1#1#1#		00.0.41.0-					
25	#1#1#1#1# #1#1#1#1#1#	·.	20.0-41.0m clear flow banding(∠70°)		6-25(G)	25.0	25: 5	0.5
	#1#1#1#1# #1#1#1#1#		very light gray(N8) beforsite(ϕ =1 to 2 mm max.5mm) with dotted sulfide(pyrite)					
	#1#1#1#1#		and black Fe oxide minerals ($\phi = 1$ to 2mm)	4				
30	#1#1#1#1# #1#1#1#1#			٠	6-30(G. ¥)	30.0	30.5	0.5
	#1#1#1#1# #1#1#1#1#							
35	#1#1#1#1#	and the second			6-35(C)	35.0	35.5	0.5
	#1#1#1#1# #1#1#1#1#							
	#1#1#1#1#							
40	#1#1#1#1# #3#3#3#3#				6-40(G)	40.0	40.5	0.5
	#3#3#3#3#		41.0-53.0m		6X-1A(X)	42.2	42.3	0.1
45	#3#3#3#3# #3#3#3#3#	j.	very light gray(N8) beforsite(\$\phi = 5 to 10mm) with dotted pale green minerals		6X-1B(X) 6-45(G)	42.3 45.0	43.4 45.5	0.1
1	#3#3#3#3# #3#3#3#3#	phlogopite-rich beforiste	$(\phi = 5 \text{ to } 7\text{mm})$, dark brown minerals $(\phi = 5 \text{ to } 10\text{mm})$, brown minerals $(\phi = 3 \text{ to } 5\text{mm})$.	0				
	#3#3#3#3#	(Mcb2)	black Fe oxide(ϕ =1 to 2mm), and sulfides					
50	#3#3#3#3# #3#3#3#3#		(marcasite, pyrite)		6-50(G, W)	50.0	50.5	0.5
	#3#3#3#3# #1#1#1#1#							
55	#1#1#1#1#		53.0-73.0m		6-55(G)	55.0	55.5	0.5
	#1#1#1#1# #1#1#1#1#		very light gray(N8) beforsite(ϕ =1 to 2 mm max.5mm) with dotted sulfide(pyrite)					
	#1#1#1#1#		and black Fe oxide minerals(ϕ =1 to 2mm)					
. 60	#1#1#1#1# #1#1#1#1#	•			6-60(G)	60.0	60.5	0.5
÷	#1#1#1#1# #1#1#1#1#	sulfides-rich beforsite		0				
65	#1#1#1#1#	(Mcb2)			6-65(G)	65.0	65.5	0.5
ļ.	#1#1#1#1# #1#1#1#1#		clear flow banding(∠60 to 70°)					:
7.0	#1#1#1#1#				0 ma/0 %	70.0	~~ .	ا ا
10.	#1#1#1#1# #1#1#1#1#				6-70(G, ¥)	70.0	70.5	0.5
	#1#1#1#1# #3#3#3#3#	***************************************	73.0-77.0m very ligh gray beforsite with					
75	#3#3#3#3#	phlogopite-rich	dotted pale green, dark brown, brown	0	6-75(C)	75.0	75.5	0.5
	#3#3#3#3# #3#3#3#3#	beforiste (Mcb2)	minerals, black Fe oxide, and sulfides with black sitate breccia(d=2 to 3m)					
	# # # #				6-80(G)	00.0	00.5	ا ، ، ا
80	#####	beforiste	77.0-85.5m very light gray(N8) beforsite($\phi = 1$ to 2	0	υ-ου(υ <i>)</i>	80.0	80.5	0.5
	* * * * *	(Mcb2)	mm max.5mm) with a few dotted sulfide and black Fe oxide minerals(ϕ =1 to 2mm)]				·
85	# # # # #	***************************************			6-85(G)	85.0	85.5	0.5
	#3#3#3#3# #3#3#3#3#	phlogopite-rich beforiste	85.5.0-88.0m very light gray beforsite with pale green, brown minerals. Fe oxide	0				
	#3#3#3#3#	(Mcb2)	and sulfides(pyrite), with slate breccia	ļ	6-65/C #1	00.0	60 -	, ,
90	#1#1#1#1# #1#1#1#1#		88.0-101.0m		6-90(G, T)	90.0	90.5	0.5
-	#1#1#1#1# #1#1#1#1#		clear flow banding($\angle 60^{\circ}$) very light gray(N8) beforsite($\phi = 1$ to 2	0	!			
95	#1#1#1#1#	beforsite	nm max.5mm) with dotted sulfide(pyrite)		6-95(G)	95.0	95.5	0.5
	#1#1#1#1# #1#1#1#1#	(Mcb2)	and black Fe oxide minerals(φ=1 to 2mm)			1		
inn	#1#1#1#1# #1#1#1#1#		clear flow banding(∠60°)	1	6-100(G)	100 4	105.5	0.5
100	F 1 T 1 T 1 T 1 T 1 T 1			J	10 100/0/	1 100.0	1 10000	1 4.0

B-6 Drilling Logs of the Orange Area (11)

N C) - 6		· · · · · · · · · · · · · · · · · · ·	+.			0~1	
th	Geologic	Rock Name	Description	Teath-	Sampling Number		Samplin Interva	g 1
L11	Colum	&	DOOT PETON	ering	. &	From	to	Width
00	#1#1#1#1#	(Rock Code)	1,000,000,000,000,000,000,000,000,000,0		(Type of Test)	(R)	(•)	
	#4#4#4#4#	***************************************	101.0-109.0m very light gray(N8) beforsite(φ=1 to 2					
05	F4#4#4#4# F4#4#4#4#	apatite-rich	mm max.5mm) with spots(d=1 to 3cm max.	0	6-105(G)	105.0	105.5	0.5
	F4#4#4#4# F4#4#4#4#	beforiste (Ncb2)	30cm) of dark brown minerlas(phlogopite) and pale green apatite(φ=1 to 5mm)	7.7.5	6X-2(X)	105.5	105.6	0.1
	#4#4#4#4#	**		0	6-110(G, T)	110.0	110.5	0.5
	#4#4#4#4#	dolerite(Kdd)	109.0-110.3m black hard dorelite dyke 110.3m-121.5m	U	0-110(O'N)	110.4	110.5	. 0.0
	#4#4#4#4# #4#4#4#4#		clear flow banding(∠60°) very light gray(N8) beforsite(φ=1 to 2					
15	74#4#4#4#	apatite-rich	mm max.5mm) with dotted pale green,	0	6-115(G) 6R-1(1)	115.0 115.0	115.5 115.1	0.5 0.1
	#4#4#4#4# #4#4#4#4#	beforiste (Ncb2)	brown to dark brown(phlogopite), pale to dark green, and sulfides(pyrrhotite)	".	6T-2(T, E)	117.0	117.1	0.1
	#4#4#4#4# #4#4#4#4#4#		minerals($\phi = 1$ to 2 max. 5mm)		6-120(G)	120.0	120.5	0.5
20	#4#4#4#4#		clear flow banding(∠60°)		6T-3(T)	121.3	121.4	0.1
		dolerite dyke(Kdd)	121.5-124.0m black hard to soft(fractured) dolerite	ì				
25	#4#4#4#4# #4#4#4#4#		124.0-130.0m very light gray(N8) beforsite($\phi = 1$ to 2	:	6-125(G)	125.0	125.5	0.5
	#4#4#4#4#	beforiste	am max. 5mm) with dotted apatite, sulfide	0		:		· [
30	#4#4#4#4# #4#4#4#4#		phlogopite, and phlogoite, later calcite clear boundary(270°)		6-129(G, W)	129.0	129.5	0.5
	և և և և և	dolerite(Kdd)	130.0-131.0m black hard dolerite dyke	0				
	#4#4#4#4# #4#4#4#4#	beforiste(Mcb2)	131.0-132.8m very light gray beforsite with apatite, sulfide, phlogopite	Ĭ				
35	L L L L L #4#4#4#4#	dolerite(Kdd) apatite-rich	132.8-135.5m black hard dolerite dyke 135.5-136.8m very light gray beforsite	0	6-135(G)	135.0	135.5	0.5
	#4#4#4#4#	beforiste(Mcb2)	with apatite, sulfide, phlogopite					
40			136.3-141.8m black hard dolerite dyke	. 0	6~140(G)	140.0	140.5	0.5
	L L L L L #9#9#9#9#9#		clear boundary(∠70°) 141.8-145.8m very light gray beforsite		6-142(G)	142.3	142.8	0.5
	#3#3#3#3#	beforisite	with phlogopite and sulfides	Q.				
45	#3#3#3#3# L L L L L	(Mcb2) dolerite(Kdd)	clear boundary($\angle 70^{\circ}$) 145.8-147.2m black hard dolerite dyke	0	6-145(G)	145.0	145.5	0.5
)		147.2-150.5m very light gray syenite with phlogopite and sulfides	0	6T-4(T).	148 7	148.8	0.1
50	<u>, , , , , , , , , , , , , , , , , , , </u>		150.5m		6-150(G, T)	150.0	150.5	0.5
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B-6 Drilling Logs of the Orange Area (12)

MJN	0 - 7	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	<u> </u>		0~10	
Depth	Geologic	Rock Name	Description	Yeath-	Sampling Number		Samplin Interva	
	Colum	å	Description	ering	&	From	to	Vidth
<u>(n)</u>	#+#+#+#+#	(Rock Code) weathered	0.0-2.0m very light gray to light	<u> </u>	(Type of Test)	(m) 0.0	(m) 0.3	(m)
		peforsite(Mcb2)	brownish gray beforesite(ϕ =1 to 2mm)	1	7-0(6)	0.0	U. 3	0.3
_	414141414	***************************************			n r(0)			
l °	#1#1#1#1# #1#1#1#1#				7-5(G)	5.0	5.5	0.5
	#1#1#1#1#		2.0~24.5m					
10	#1#1#1#1# #1#1#1#1#	sulfides-rich	very light gray(N8) beforsite(φ=1 to 2	l	7-10(G, Y)	10.0	10.5	0.5
''	#1#1#1#1#	beforsite	mm) with dotted sulfides(pyrite), black		1 10(0, 11)	10.0	10.0	0.0
	#1#1#1#1# #1#1#1#1#	(Mcb2)	Fe oxide minerals(ϕ =1 to 2mm)					
15	#1#1#1#1#		·		7-15(G)	15.0	15.5	0.5
	#1#1#1#1#							
ļ	#1#1#1#1#	,						ŀ
20	#1#1#1#1#				7-20(G)	20.0	20.5	0.5
[:	#1#1#1#1# #1#1#1#1#							
	#1#1#1#1#		clear boundary(∠50°)					
25			24.5-30.5m		7-25(G)	25.0	25.5	0.5
	LLLLL	dyke	black hard dolerite dyke	0				
30		(Kdd)			7-30(G, Y)	30.0	30.5	0.5
"	#2#2#2#2#				1 30(0, 1)	30.0	00.0	0. 3
]	#2#2#2#2# #2#2#2#2#						* .	
35	727272727				7-35(C)	35.0	35.5	0.5
	#2#2#2#2#	Fe oxide-rich	30.5-48.0m very light gray(N8) beforsite(φ = 1 to				·	
	#2#2#2#2#		2mm) with black Fe oxides and sulfide					
40	#2#2#2#2#		minerals(ϕ =1 to 2mm)		7-40(G)	40.0	40.5	0.5
ŀ	#2#2#2#2# #2#2#2#2#							
	#2#2#2#2#							i
45	#2#2#2#2# #2#2#2#2#				7-45(G) 7T-2(T, E)	45.0 46.0	45.5 46.1	0.5 0.1
	#2#2#2#2#			1	11-2(1, 6)	40.0	40.1	0.1
5.0	#2#2#2#2# #4#4#4#4#		· · · · · · · · · · · · · · · · · · ·		7-50(G, W)	50.0	50.5	0.5
. 30	#4#4#4#4#		<i>:</i>		1-30(0, #)	30.0	50.5	0.5
:	#4#4#4#4# #4#4#4#4#							
55	#4#4#4#4#				7-55(G)	55.0	55.5	0.5
	#4#4#4#4#		48.0-71.5m					
	#4#4#4#4# #4#4#4#4#		very light gray(N8) beforsite(φ=2 to 3mm max.5mm) with dotted pale green					1
60	#4#4#4#4#	beforsite	apatite(ϕ =3 to 5mm), sulfide(pyrite)	0	7-60(G)	60.0	60.5	0.5
	#4#4#4#4# #4#4#4#4#	•	$(\phi < 1 \text{mm})$, black Fe oxide $(\phi < 1 \text{mm})$, and pale to blusih green minerals $(\phi = 3)$ to				,	
	#4#4#4#4#		5mm)					
65	#4#4#4#4# #4#4#4#4#				7-65(G)	65.0	65.5	0.5
	#4#4#4#4#							
70	#4#4#4#4#				7 70(0 %)	70.0	70.5	ا ۽ ا
		phlogopite-rich	71.5-72.5m very light gray beforsite	0	7-70(G, W)	70.0	70.5	0.5
•	#3#3#3#3# #4#4#4#4#	beforsite(Mcb2)	with spots(d=2 to 5cm) of phlogopite 72.5-79.0m					
75	#4#4#4#4#		very light gray beforsite with dotted		7-75(G)	75.0	75.5	0.5
	#4#4#4#4#		pale green apatite ($\phi = 3$ to 5mm), sulfide					
	#4#4#4#4# #4#4#4#4#		(φ (lmm), black Fe oxide(φ (lmm), and pale to blusih green minerals(φ=3 to					
80	#4#4#4#4#		5 mm)		7-80(G)	80.0	80.5	0.5
].	#4#4#4#4# #4#4#4#4#		79.0-83.0m very light gray beforsite with dotted	0				
	74#4#4#4#	beforsite	pale green apatite, and black Fe oxide					
85	#4#4#4#4# #4#4#4#4#		83.0-86.0m clear flow banding(∠60°) very light gray beforsite with dotted		7-85(G) 7X-3(X)	85.0 85.0	85.5 85.1	0.5 0.1
	#4#4#4#4#		apatite, phlogopite, and amphibole		14-0(4)	00.0	30.1	0. 1
مه ا	#4#4#4#4# #4#4#4#4#		86.0-93.0m very light gray beforsite with dotted		7.00(C ¥\	00.0	00 5	ا م
30	#4#4#4#4#		pale green apatite($\phi = 3$ to 5mm), and		7-90(G, W)	90.0	90.5	0.5
	#4#4#4#4#		a few sulfides(pyrite)		7T-3(T)	93.0	93.1	0.1
95	#1#1#1#1# #1#1#1#1#		93.0-95.0m very light gray beforsite with dotted pyrite, phlogopite and apatite	0	7-95(G)	95.0	95.5	0.5
	#4#4#4#4#		95.0-101.0m					
	848484848 84848484		very light gray to light brwonish gray beforsite with apatite. Fe oxides, pyrite	0				
100	#4#4#4# 4 #		and phlogopite		7-100(G)	100.0	105.5	0.5

B-6 Drilling Logs of the Orange Area (13)

ŀN C	7		· · · · · · · · · · · · · · · · · · ·	ight gray(N8) beforsite(ϕ = 2 to $(.5\text{mn})$ with dotted pale green $(.6\phi$ = 3 to 5 mm), sulfide(pyrite) w), black Fe oxide(ϕ (1mm), and oblusih green minerals(ϕ = 3 to 105.5 my) with dotted pale green $(.6\phi$ = 3 to 5 mm), and spots(d = 3 to 5 mm), and spots(d = 3 to 5 mm), and spots(d = 3 to 5 mm), and spots(d = 3 to 5 mm), and spots(d = 3 to 5 mm), and spots(d = 3 to 5 mm), and spots(d = 3 to 5 mm), and spots(d = 3 to 5 mm), and spots(d = 3 to 5 mm), and spots(d = 3 to 5 mm), and spots(d = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 to 5 mm), and despensive $(.6\phi)$ = 3 t				
pth	Geologic	Rock	Description	Teath-				
	Colum	Name		ering	& Tuno of Toot)	From		
100	#4#4#4#4#			 	(lype of lest)	(=/	(m)	_ <u></u>
	7484#4#4#						1.	
	#4#4#4#4# #4#4#4#4#		101.0-120.0m very light gray(N8) beforsite($\phi = 2$ to		7-105(G)	105.0	105.5	0.5
	#4#4#4#4#		3mm max, 5mm) with dotted pale green					7.7
	#4#4#4#4# #4#4#4#4#			1:-		. '		
	#4#4#4#4#		pale to blusih green minerals(φ=3 to		7-110(G. T)	110.0	110.5	0.5
	F4 H4 H4 H4 H		5mm)				:	
	#4#4#4#4#							
115	44#4#4#4#		120.0-128.5m	1	7-115(G)	115.0	115.5	0.5
	#4#4#4#4# #4#4#4#4#		very light gray(N8) beforsite(φ=2 to	İ				İ
	#4#4#4#4#		Sum max.5mm) with dotted pale green		7 100(0)	100.0	100 0	0.6
120	#4#4#4#4#4# #4#4#4#4#4#		apatite(φ=3 to 5mm), and spots(d=3 to 5 cm max. 20cm) of dark brown phlogopite,	ļ	1-120(0)	120.0	120.5	0. 5
	#4#4#4#4#		dark green amphibole					
195	#4#4#4#4# #4#4#4#4#	apatite-rich beforsite	128.5-133.0m	1 0	7-125(G)	125.0	125.5	0.5
120	#4#4#4#4#	(Mcb2)	very light gray to light brwonish gray		1 120(0)	1201	120.0	
	#4#4#4#4# #4#4#4#4#		beforsite with apatite. Fe oxide, pyrite, phlogopite	1				
130	#4#4#4#4#							
	#4#4#4#4# #4#4#4#4#		133.0-139.0m very light gray heforsite(d = 2 to 3mm.		7T-4(T)	129.3	129.4	0.1
	#4#4#4#4#		$max 5mm$) with apatite($\phi = 3$ to 5mm), and					
135	#4#4#4#4# #4#4#4#4#		spots(d=5 to 10cm max.20cm)of phlogopite and amphibole					
	#4#4#4#4#		and amplituote					
1.40	#4#4#4#4#		139.0-146.0m		7-140(0)	140 0	140 5	0.5
140	#4#4#4#4# #4#4#4#4#		very light gray to light brwonish gray		1-140(0)	140.0	140.0	0.0
	#4#4#4#4#		beforsite with apatite, Fe oxides,	1			:	1
145	#4#4#4#4# #4#4#4#4#		pyrite, phlogopite		7-145(G)	145.0	145.5	0.5
110	#4#4#4#4#		146.0-150.5m very light gray beforiste		7R-1(1)	145.0	145.1	0.1
	#4#4#4#4# #4#4#4#4#	٠	with apatite, pyrite, phlogopite, and dark green mineral		7X-2(X)	148.0	148.1	0.1
150	74#4#4#4#		150.5m		7-150(G, Y)	150.0	150.5	0.5
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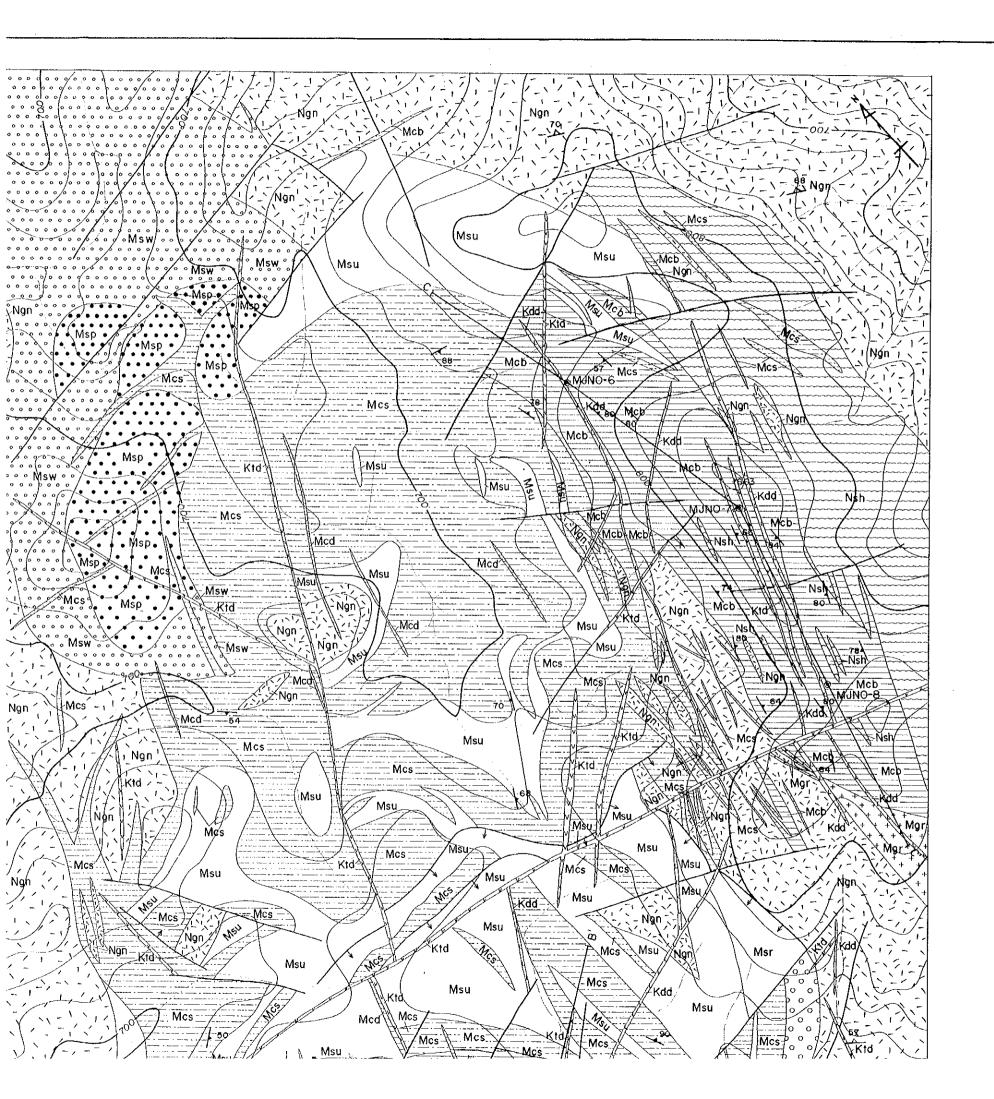
B-6 Drilling Logs of the Orange Area (14)

Depth Color Color Rock Name Description Fasth Color Color Rock Name Color Rock Name Color Rock Name Color Rock Rock Color Rock Rock Color Rock Rock Color Rock Rock Rock Color Rock Rock Rock Color Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock Rock	MJNC) - 8				Sampling	1	$0 \sim 1$	
Column (column)	Depth	Geologic	Rock Name	Description	Yeath-		<u> </u>	Interva	<u> </u>
Fig. 1. Section			& l		ering				
				0.0 A 0m					
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		# - # - # - # - #		with dusky brown and black minerals	·	8-3(G)	3.0	3.5	0.5
10	5			4.0-12.2m		'			
10	'		slate	dark green well foliated slate	1		.		
F F F F F				with abundant dark green and black					
	-10			metamorphic minerals					
F F F S C(k)2) disconnection light gray(NF) to very light gray(NE) 0 8-15(0) 15.0 15.5 0.5				12 2-17 Om clear flow handing(/ 0°)		8-12(G)	12.0	12.5	0.5
15			beforsite		0				
A A A	15					8-15(G)	15.0	15.5	0.5
20 △ △ △ brecclated clab brecclated clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab clab	1				 		1	`	
A				17. U-27. 3m					
A A State	20	ΔΔΔ				8-20(G)	20.0	20.5	0.5
25					1				
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### #################################	25	ΔΔΔ		(W=5 t 30cm)		8-25(G, W)	25.0	25.5	0.5
2.1.3-4.3.0 mclear flow banding(∠ 60°) 8-30(G) 30.0 30.5 0.5		*0*0*0*0*							
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### ##################################				very light gray(N8) before ite (ϕ = 1 to	1		1		
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### ### ### ### ### ### ### ### ### ##	- 35								
### ##################################						8X-1(X)	35.0	35.1	0.1
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######################################	40				"	8-40(G)	40.0	40.5	0.5
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28m3 accompanied with brown sineral	45			30,000,000		8-45(G)	45.0	45.5	0.5
138283338						<u> </u>		٠.	
So 34838388 Sa Sa Sa Sa Sa Sa Sa									
######################################	50					8-50(G, X)	50.0	50.5	0.5
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LLLL U dolerite dyke 55.5-61.5m black to dark green dolerite TSF3878587 hlogopite-rich black to dark green dolerite TSF3878587 hlogopite-rich black to dark green dolerite TSF3878587 hlogopite-rich black to dark green dolerite TSF3878587 hlogopite-rich black to dark green dolerite TSF3878587 hlogopite-rich black to dark green dolerite TSF3878587 hlogopite-rich black to dark green dolerite TSF3878587 hlogopite-rich black to dark green dolerite TSF3878587 hlogopite-rich TSF3878587 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF3878787 hlogopite-rich TSF38787878 hlogopite-rich TSF38787878 hlogopite-rich TSF3878787878		#3#3#3#3#							
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#\$8#\$8#\$8#\$ hlogopite-rich 61.5-62.5m very light gray beforsite 0	60				'	8-61(G)	60.0	60.5	0.5
\$\frac{4444444}{65 \frac{4444444}{44444444}}\$\frac{62.5-70.2m}{444444444}\$\frac{4444444}{644444444}\$\frac{44444444}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{4444444}{644444444}\$\frac{4444444}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{644444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{644444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{6444444444}\$\frac{62.5-70.2m}{644444444}\$\frac{62.5-70.2m}{644444444}\$\frac{62.5-70.2m}{644444444}\$\frac{62.5-70.2m}{644444444}\$\frac{62.5-70.2m}{644444444}\$\frac{62.5-70.2m}{644444444}\$\frac{62.5-70.2m}{644444444}\$\frac{62.5-70.2m}{644444444}\$\frac{62.5-70.2m}{644444444}\$\frac{62.5-70.2m}{644444444}\$62.5-70.		#3#3#3#3#	phlogopite-rich	61.5-62.5m very light gray beforsite	0	1			
very light gray(N8) beforsite(φ = 2 to 3 8-65(G) 65.0 65.5 0.5 πmm rich in pale green apatite and with pale to dark green, black minerals and sulfides(pyrite, pyrrhotite) 8-70(G) 70.0 70.5 0.5 πmm rich in pale green, black minerals and sulfides(pyrite, pyrrhotite) 8-70(G) 70.0 70.5 0.5 πmm rich in pale green, black minerals and sulfides (pyrite, pyrrhotite) 8-70(G) 70.0 70.5 0.5 πmm rich in pale green, black minerals and sulfides (pyrite, pyrrhotite) 8-70(G) 70.0 70.5 0.5 πmm rich in pale green, and black slate breecin max 5cm and with pale l to dark green πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm πmm		#3#3#3#3#	beforsite(Mcb2)	with dark brown mineral(phlogopite)		·			
########### apatite-rich pale green apatite and with pale dark green, black minerals and sulfides(pyrite, pyrrhotite) ###################################	65				1	8-65(G)	65.0	65.5	0.5
#####################################		#4#4#4#4#	apatite-rich		0			25.0	
70 #4#4#4#4## ### ######################						8-67(G, N)	67.3	67.8	0,5
#3#3#3#3## phlogopite-rich 70.2-72.5m very light gray beforsite	70	********				8-70(G)	70.0	70.5	0.5
72.5-90.5m 72.5-90.5m 72.5-90.5m 75.6 75.0 75.5 0.5 75.7 75.0 75.1 0.1 75.7 75.4 44.4 44.4 44.4 76.4 44.4 44.4 44.4 87.4 44.4 44.4 44.4 88.4 44.4 44.4 44.4 88.5 44.4 44.4 44.4 88.5 44.4 44.4 44.4 88.5 44.4 44.4 44.4 88.5 44.4 44.4 44.4 88.6 44.4 44.4 44.4 88.6 44.4 44.4 44.4 88.7 5(G) 88.7 5(G) 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.1 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 75.0 75.1 8-80(G, W) 8-80(G, W) 8-80(G, W) 8-80(G, W) 8-80(G, W) 8-80(#3#3#3#3#	phlogopite-rich		0	1			
75 \$4#4#4###	1				ļ	1	:		
#####################################	75	F4#4#4#4#		1 1 2 0 00.00		8-75(G)		75.5	0.5
######################################		#4#4#4#4#	·					75.1	0.1
80 #4#4#4### max 5cm) and with palel to dark green pyrhotite) ####################################					1				
######################################	80					8-80(G. W)	80.0	80.5	0.5
######################################	"	#4#4#4#4#	apatite-rich	minerals and sulfides (pyrite and	0] .	1	
85					1				
#4#4#4###	85					8-85(G)	85.0	85.5	0.5
〒4444444 90		#4#4#4#4#			1				
90				The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		8T-4(T)	873	87.4	U. I
#3#3#3#3# phlogopite-rich 90.5-93.8m very light gray beforsite #3#3#3#3#3# beforsite with brown, dark green, and black 0 minerals patches (d=10 to 50cm) 95 #4#4#4#4# apatite-rich 93.8-97.5m very light gray(N8) beforsite 8-95(G) 95.0 95.5 0.5 #4#4#4#4## beforsite (φ=3 to 5mm) with pale green apatite (Mcb2) (φ=5mm, max 3 to 5cm) and sulfides #3#3#3#8# phlogopite-rich 97.5-99.5m very light gray beforsite 0	90					8-90(G, W)	90.0	90.5	0.5
13	"	#3#3#3#3#	phlogopite-rich		T		Ī .	1]
95 #4#4#4### apatite-rich 93.8-97.5m very light gray(N8) beforsite 8-95(G) 95.0 95.5 0.5 #4#4#4##############################			beforsite		0				
#4#4#4## beforsite (ゆき to 5mm) with pale green apatite 0 #4#4#4#4# (Mcb2) (ゆき5mm, max 3 to 5cm) and sulfides #3#3#3#3# phlogopite-rich 97.5-99.5m very light gray beforsite 0	95		apatite-rich		· † ·····	8-95(G)		95.5	0.5
#3#3#3#3# phlogopite-rich 97.5-99.5m very light gray beforsite 0	"	#4#4#4#4#	beforsite	(φ=3 to 5mm) with pale green apatite	0				
	1					4	1		
	100				"	8-100(G. W)	100.0	105.5	0.5

B-6 Drilling Logs of the Orange Area (15)

Depth Geologic Rock Name (Rock Code) (a) 100	1 J N C) — 8	 			Sampling) 0 ∼ 1 Samplin	g
(m) 484444848	epth			Description		Number		Interva	ĭ
100 ###44###	(n)	Colum			ering				Tidth (m)
######################################	100		(ROCK CODE)	99.5-137.5	 	13 pc 01 1651)	\=/	\ = /	<u></u>
110 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		#4#4#4#4# #4#4#4#4# #4#4#4#4#		very light gray(N8) beforsite(ϕ =2 to 3 mm) rich in pale green apatite and with pale to dark green, black minerals,		8-105(G)	105. 0	105.5	0.5
115		#4#4#4#4# #4#4#4#4# #4#4#4#4#		pale green apatite rich parts		8-110(G)	110.0	110.5	0.5
120 #4#4#4### apatite-rich beforsite #4#4#################################	115	#4#4#4#4# #4#4#4#4# #4#4#4#4#		sulfides (pyrite and pyrrhotite) rich parts		8-115(G)	115.0	115.5	0.5
125 #4#4#4###############################	120	#4#4#4#4# #4#4#4#4# #4#4#4#4#	beforsite	brown, dark green and black minerals	0	8-120(G, ¥) 8R-1(1)			0.5 0.1
130	125	#4#4#4#4# #4#4#4#4# #4#4#4#4#	. •			8-125(G)	125.0	125.5	0.5
135 #4#4#4#4##		#4#4#4#4# #4#4#4#4# #4#4#4#4#				8-130(0)	129.0		. 0-5
V V V V V V dyke light gray trachyte dyke 0 8T-5(T) 142.8 142.9 0. 145 V V V V V V V V V V V V V V V V V V V	135	#4#4#4#4# #4#4#4#4# #4#4#4#4#		clear contact boundary (∠60°)					0.5
145 Y Y Y Y Y Clear contact boundary (∠60°) #3#3#3#3#3 #3#3#3#3# phlogopite-rich very light gray beforsite(φ = 2 to 3mm #3#3#3#3# beforsite max.1 to 2cm) with phlogopite, magnetite		*	dyke	light gray trachyte dyke	0				0.,
150 M3838388 (Nob2) 150.4m 8-150(G) 150.0 150.5 0.	•	#3#3#3#3# #3#3#3#3# #3#3#3#3#	phlogopite-rich beforsite	145.5-150.4m very light gray beforsite (ϕ = 2 to 3mm max.1 to 2cm) with phlogopite, magnetite	0		,		0.5
	150	#3#3#3#3#	(Nicb2)	150.4m		8-150(G)	150.0	150.5	0. !
	14			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s					
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B-6 Drilling Logs of the Orange Area (16)



The Mineral Exploration in the Orange and Kalkfeld Areas, the Republic of Namibia

Phase 2

Fig. ||-1-2|Geological Map of the Orange Area

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

February 1995

LEGEND

Trachyte dyke

Granophyres and Micro-granite

