Apx.8 Results of the X-ray difffaction analysis

Result of the X-ray diffraction analysis

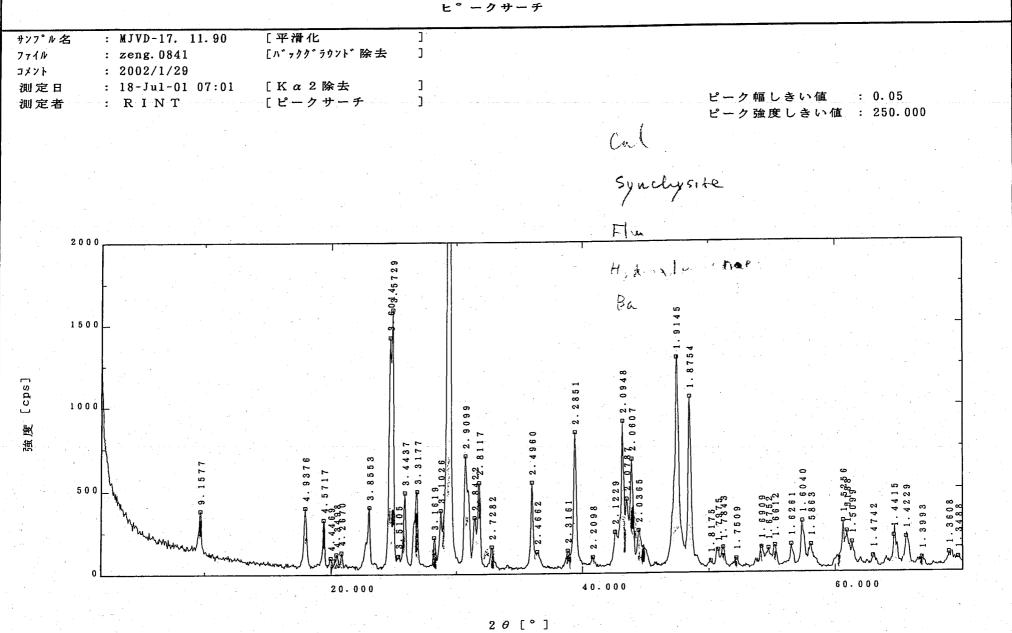
	Minerals Sample Name	Bastnaesite	Hydroxybastnaesite	Synchysite	Barite	Fluorite	Calcite	Dolomite	Quartz	K-feldspar	Phlogopite	Pylite	Remarks		
1	MJVD-17-11.90		0	Δ	Δ	•	0				.,.		Primary ore, yellow, pink and reddish brown, bastnaesite rich		
2	MJVD-17-88.70			Δ	. •	0	0						Fluorite, Barite, and dark brown ore		
3	MJVD-19-87.25			•			0			0	0	•	White and light brown, limestone, including fluorite and barite, weakly disseminated by pyrite		
4	MJVD-19-24.65				0	•	0	•?					Gray, white, and reddish brown, breccia		
5	MJVD-20-116.70			0	0	Δ	0		Δ				White, vilolet, pink, and pale yellow, barite, fluorite, and REO ore, Bastnaesite rich		
6	MJVD-20-119.40		-	•		•	0				Δ	•	White, limestone, including a little fluorite and barite, disseminated by pyrite		
7	MJVD-21-115.60	0		•	Δ	Δ	0		0		-	•	Black, violet, red and white pale yellow, REO ore, high radioactivity (0.47mR/h)		
8	MJVD-23-96.05			Δ		0	Δ				-	7	Weakly weathered fluorite, barite and REO ore, including pinkish colored REO mineral (synchysite?)		
9	MJVD-23-96.55				0	Δ	0					•	Weakly weathered fluorite, barite and REO ore, weakly disseminated by pyrite		
10	MJVD-23-99.60				0	0	0				Δ	•	White, partly violet and gray, fluorite, barite and REO ore, weakly disseminated by pyrite		

②: Rich

O: Moderate

 Δ : Poor

: Very poor
+ : Detected by thehydraulic elutration



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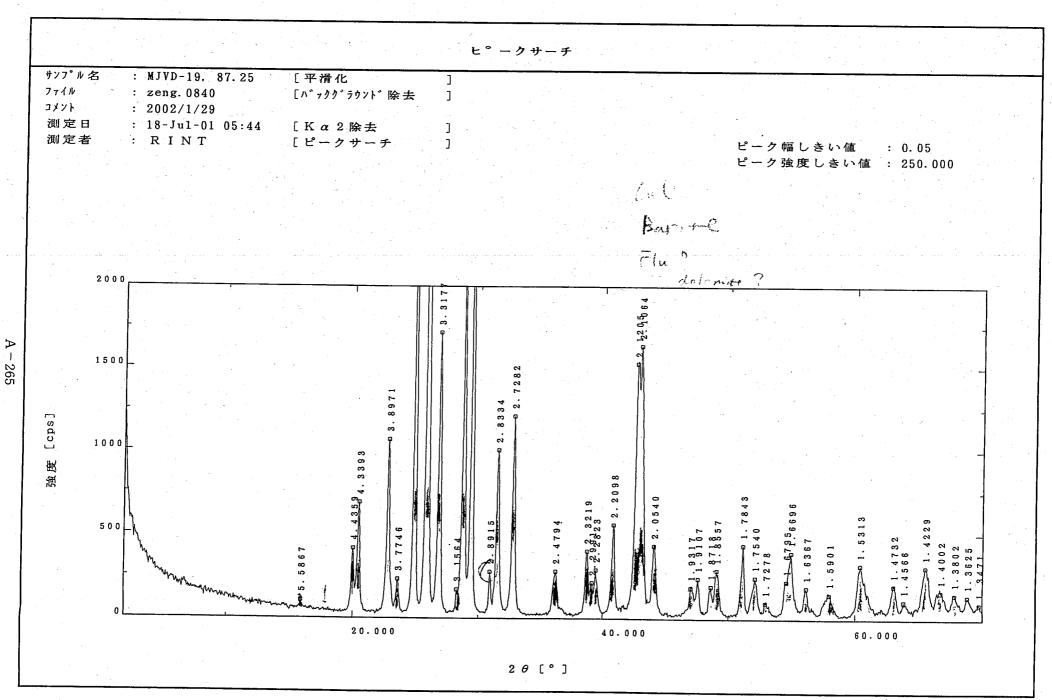
2θ[°]

40.000

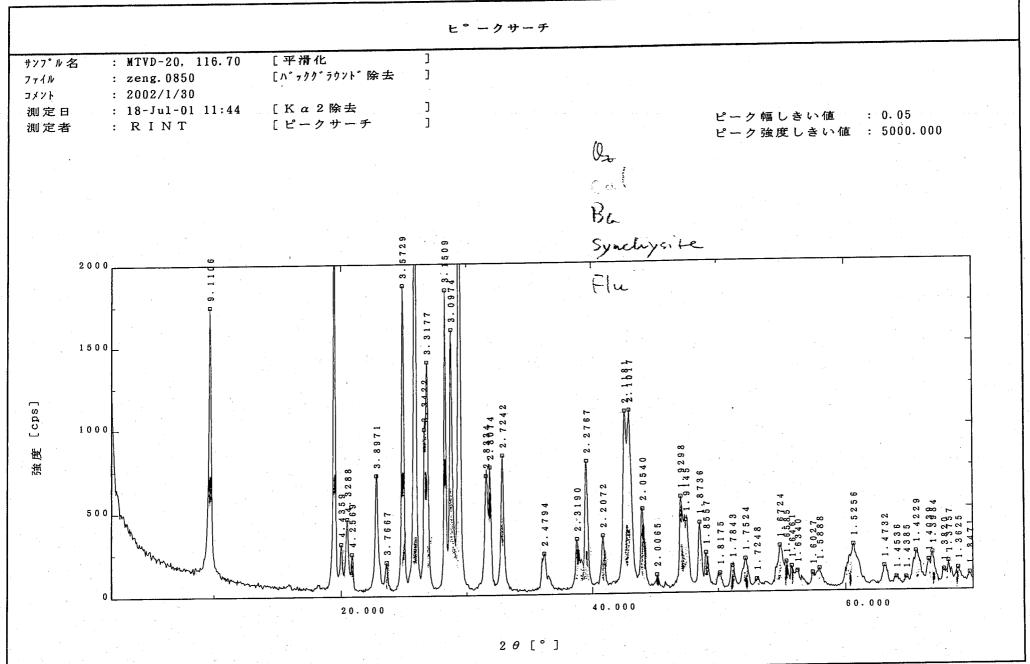
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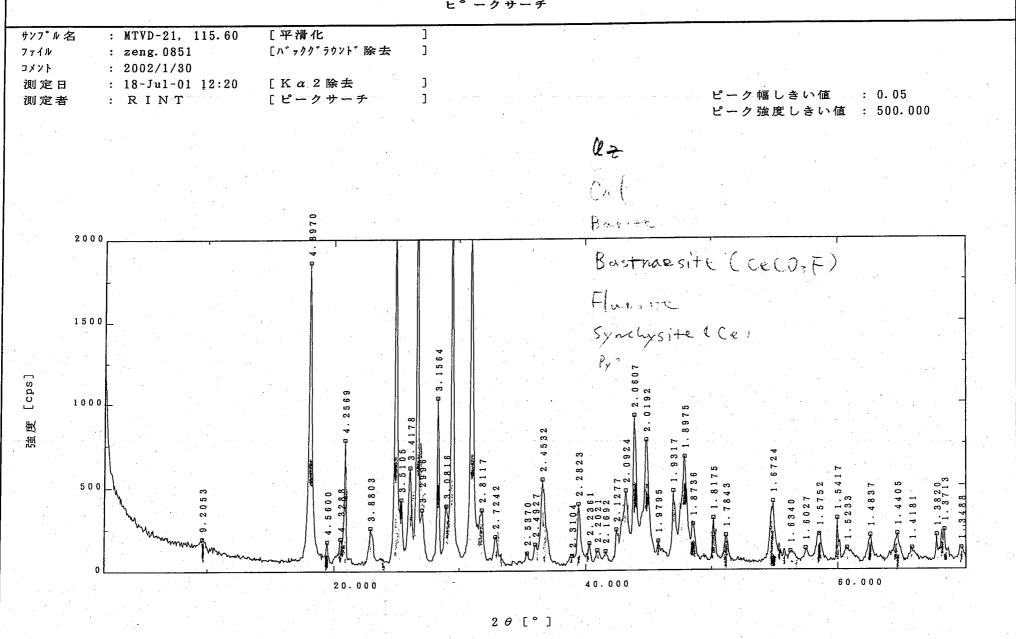
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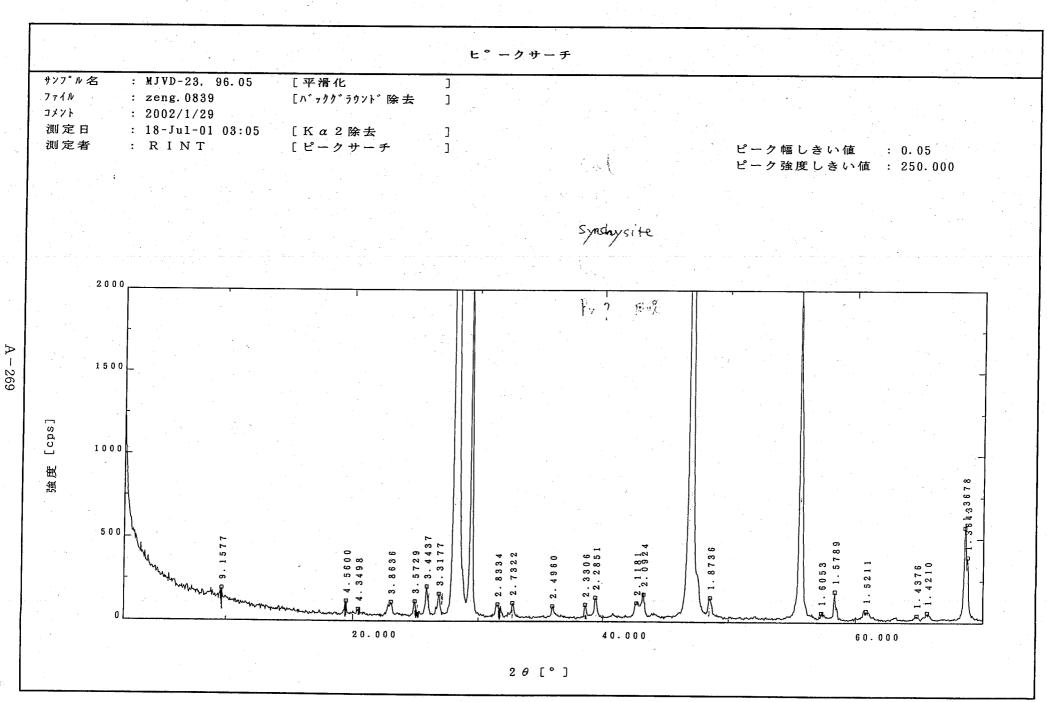


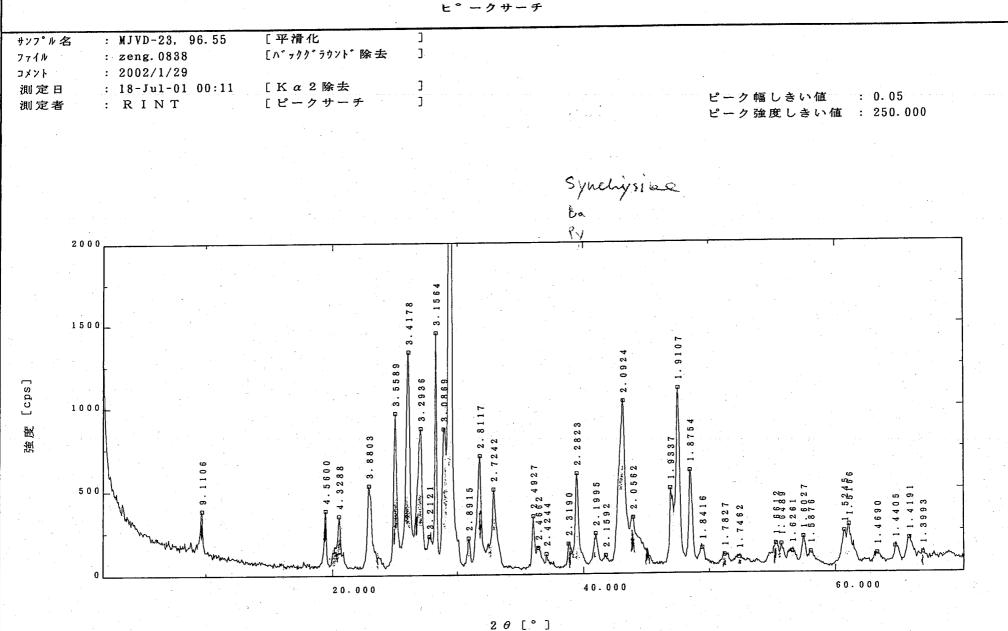




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Apx.9 Results of the radio activity measurements

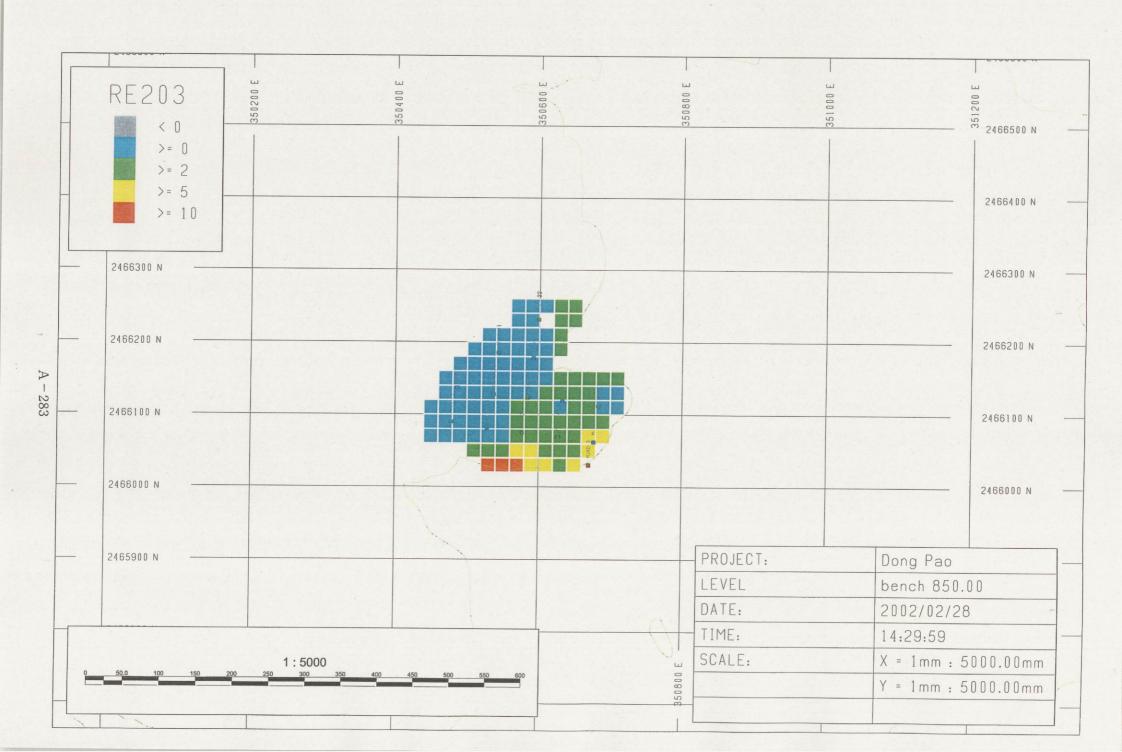
Intensity of radiation of MJVD-23

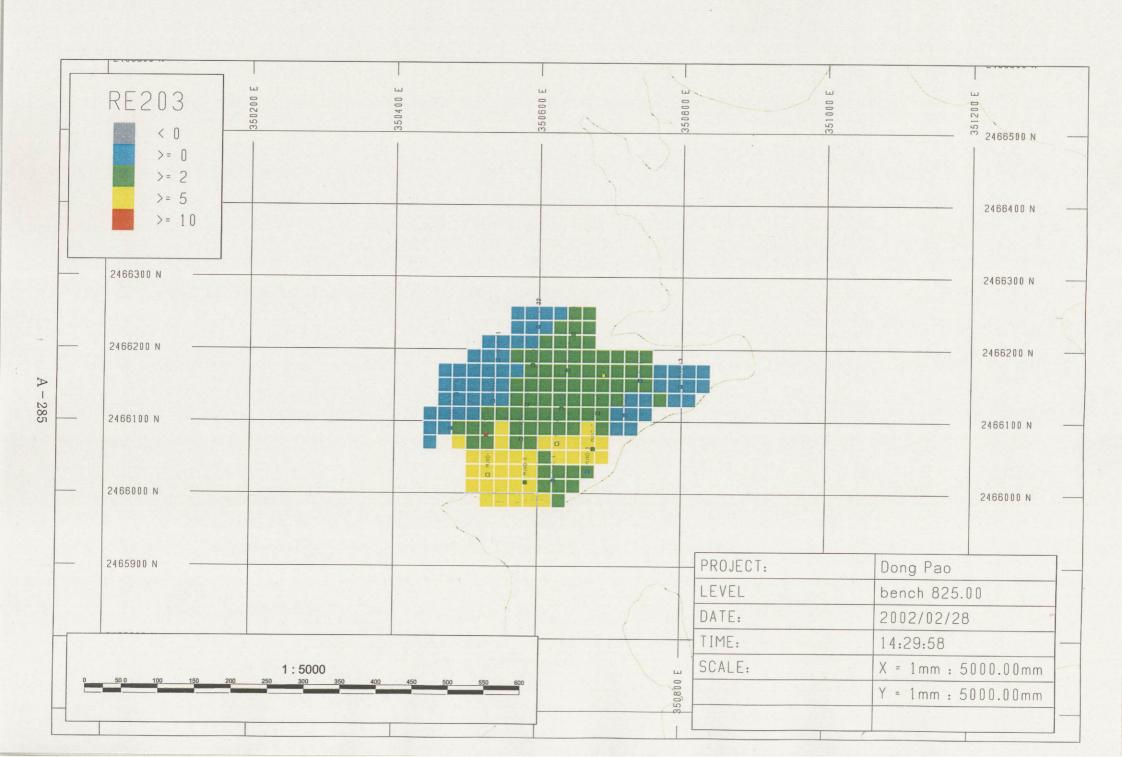
	Intensity of		· · · · · ·	
	radiation	T-RE ₂ O ₃	ָ ט	Th
	mR/h	%	ppm	ppm
MJVD-23-1	0.075	1.00	48	185
MJVD-23-2	0.081	0.84	44	163
MJVD-23-3	0.094	0.86	44	157
MJVD-23-4	0.091	1.33	54	172
MJVD-23-5	0.106	2.94	62	148
MJVD-23-6	0.143	4.11	72	206
MJVD-23-7	0.119	3.80	66	200
MJVD-23-8	0.100	4.24	61	153
MJVD-23-9	0.092	4.23	63	172
MJVD-23-10	0.071	3.70	66	129
MJVD-23-11	0.070	2.51	60	100
MJVD-23-12	0.067	2.46	66	107
MJVD-23-13	0.081	2.96	81	124
MJVD-23-14	0.112	2.69	96	113
MJVD-23-15	0.080	3.86	101	74
MJVD-23-16	0.064	4.38	36	91
MJVD-23-17	0.077	4.08	39	101
MJVD-23-18	0.071	2.93	61	95
MJVD-23-19	0.062	3.16	27	90
MJVD-23-20	0.081	5.42	42	104
MJVD-23-21	0.088	4.50	132	112
MJVD-23-22	0.030	0.33	16	10
MJVD-23-23	0.040	0.48	62	9
MJVD-23-24	0.041	1.53	38	13
MJVD-23-25	0.046	1.44	28	13
MJVD-23-26	0.041	1.33	40	- 18
MJVD-23-28	0.037	1.25	27	18
MJVD-23-29	0.043	0.95	33	10
MJVD-23-30	0.038	3.60	33	29
MJVD-23-31	0.070	4.87	68	50
MJVD-23-32	0.047	2.14	55	19
MJVD-23-33	0.043	1.42	40	15
MJVD-23-34	0.050	2.14	48	21
MJVD-23-35	0.041	1.07	47	16
MJVD-23-36	0.066	0.70	93	5
MJVD-23-37	0.046	2.04	19	9
MJVD-23-38	0.043	2.72	33	7
MJVD-23-39	0.053	2.82	42	22
MJVD-23-40	0.046	0.75	40	8
MJVD-23-43	0.034	2.25	28	.30
MJVD-23-44	0.028	1.76	12	17
MJVD-23-45	0.027	2.60	16	26
MJVD-23-46	0.046	1.75	23	18
MJVD-23-47	0.038	1.84	40	11
MJVD-23-48	0.055	1.45	51	8
MJVD-23-49	0.031	0.41	10	3
MJVD-23-50	0.035	0.95	19	4
MJVD-23-51	0.040	1.20	54	13

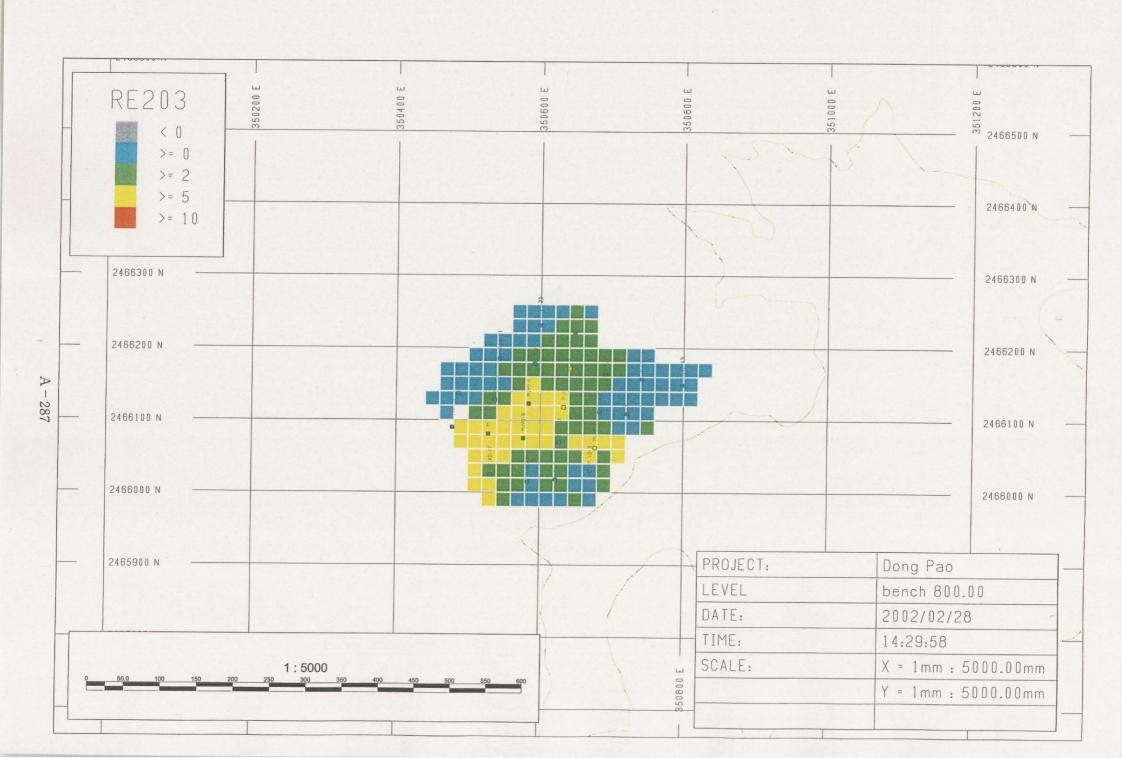
	Intensity of			· · · · · ·
	radiation	T-RE ₂ O ₃	Ū	${ m Th}$
	mR/h	%	ppm	ppm
MJVD-23-52	0.057	1.93	36	9
MJVD-23-53	0.041	1.08	32	13
MJVD-23-54	0.054	0.97	46	12
MJVD-23-55	0.048	1.28	73	11
MJVD-23-56	0.067	0.82	49	13
MJVD-23-57	0.073	3.24	28	20
MJVD-23-58	0.065	0.48	8	2
MJVD-23-59	0.071	0.20	14	1
MJVD-23-60	0.073	0.99	40	6
MJVD-23-61	0.065	2.89	83	27
MJVD-23-63	0.048	0.62	34	7
MJVD-23-64	0.036	0.42	42	7
MJVD-23-65	0.037	0.34	27	2
MJVD-23-66	0.044	1.05	51	10
MJVD-23-67	0.047	0.95	58	9
MJVD-23-68	0.058	1.03	23	11
MJVD-23-69	0.050	0.34	10	3
MJVD-23-70	0.056	3.85	55	24
MJVD-23-71	0.075	2.11	64	19
MJVD-23-72	0.068	1.11	43	8
MJVD-23-73	0.068	4.76	39	27
MJVD-23-74	0.048	4.41	23	32
MJVD-23-75	0.056	5.83	40	30
MJVD-23-76	0.054	7.66	48	29
MJVD-23-78	0.056	5.68	52	24
MJVD-23-79	0.069	9.09	68	47
MJVD-23-80	0.057	6.40	21	22
MJVD-23-81	0.041	1.94	9	13
MJVD-23-82	0.043	2.00	15	14
MJVD-23-83	0.040	2.43	10	18
MJVD-23-84	0.035	3.41	14	25
MJVD-23-85	0.059	5.64	27	34
MJVD-23-86	0.050	3.18	25	15
MJVD-23-87	0.065	5.15	77	24
MJVD-23-88	0.073	4.70	24	26
MJVD-23-89	0.053	4.87	29	24
MJVD-23-90	0.049	9.16	52	45
MJVD-23-91	0.061	4.85	45	39
MJVD-23-92	0.063	5.55	49	36
MJVD-23-93	0.076	4.85	42	29
MJVD-23-94	0.070	3.49	57	24
MJVD-23-95	0.105	7.65	93	45
MJVD-23-96	0.060	4.21	97	22
MJVD-23-97	0.064	2.68	48	15
MJVD-23-98	0.051	1.82	45	. 9
MJVD-23-99	0.052	0.70	62	4
MJVD-23-100	0.067	0.66	53	3

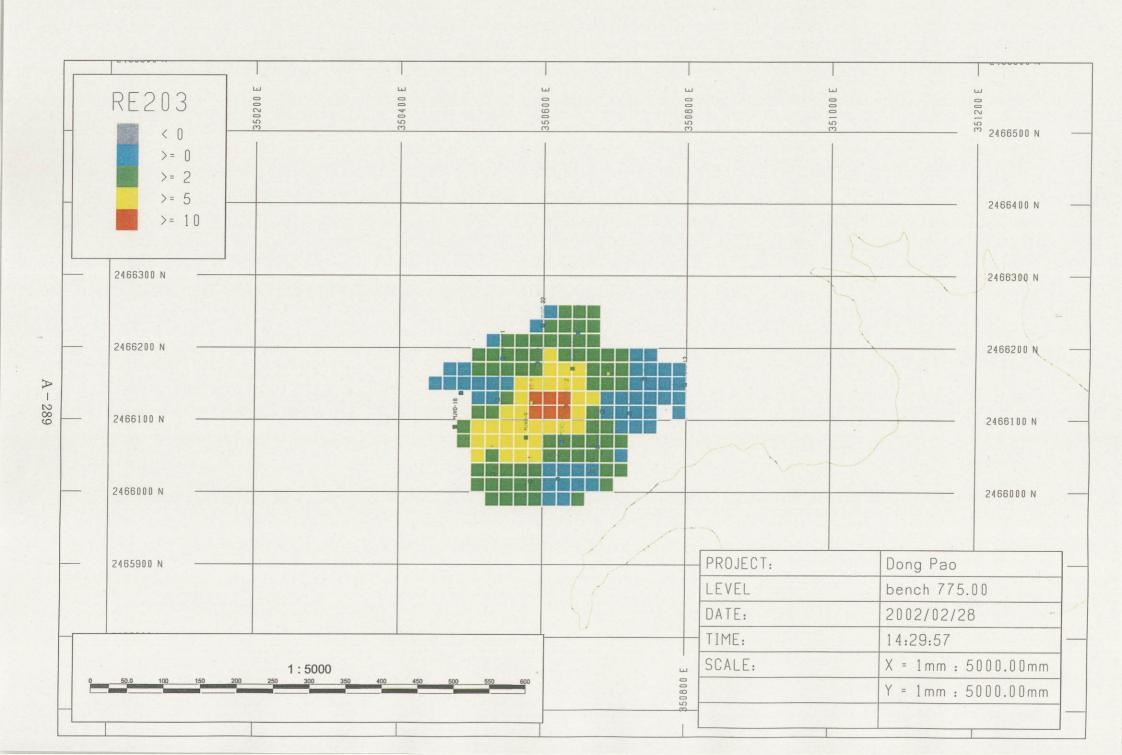
Apx.10 Holizontal section of TRE_2O_3 grade distribution (7 layers)

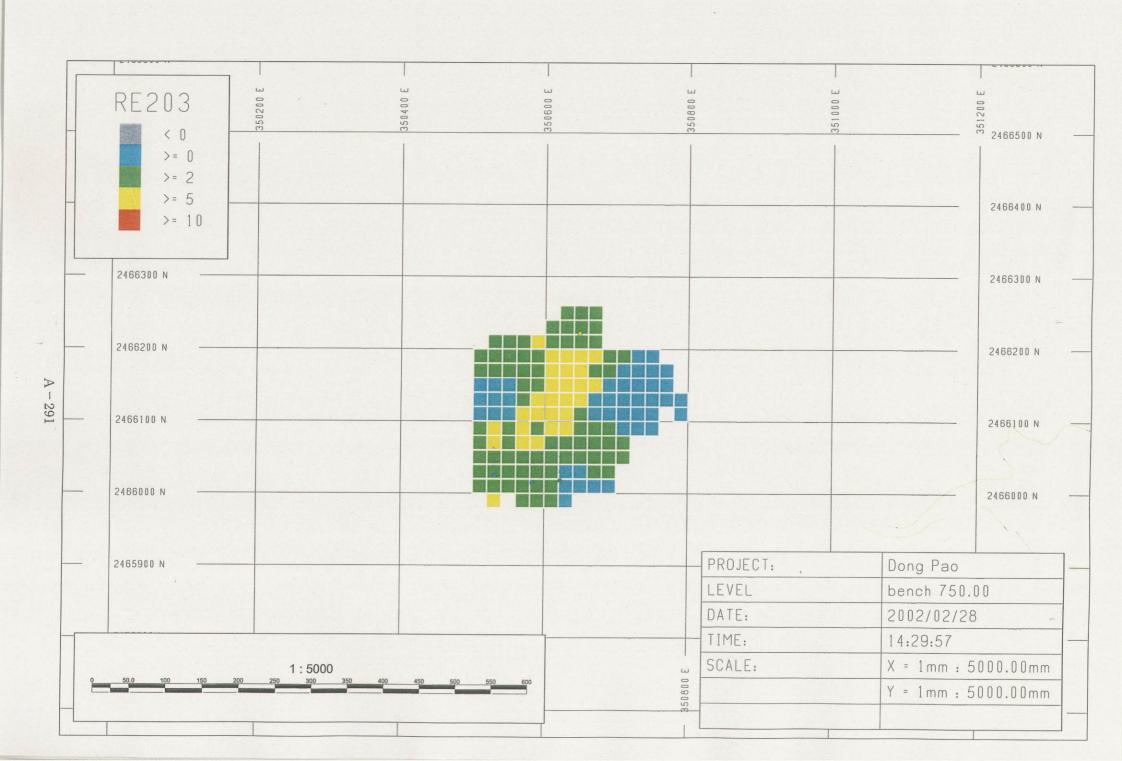




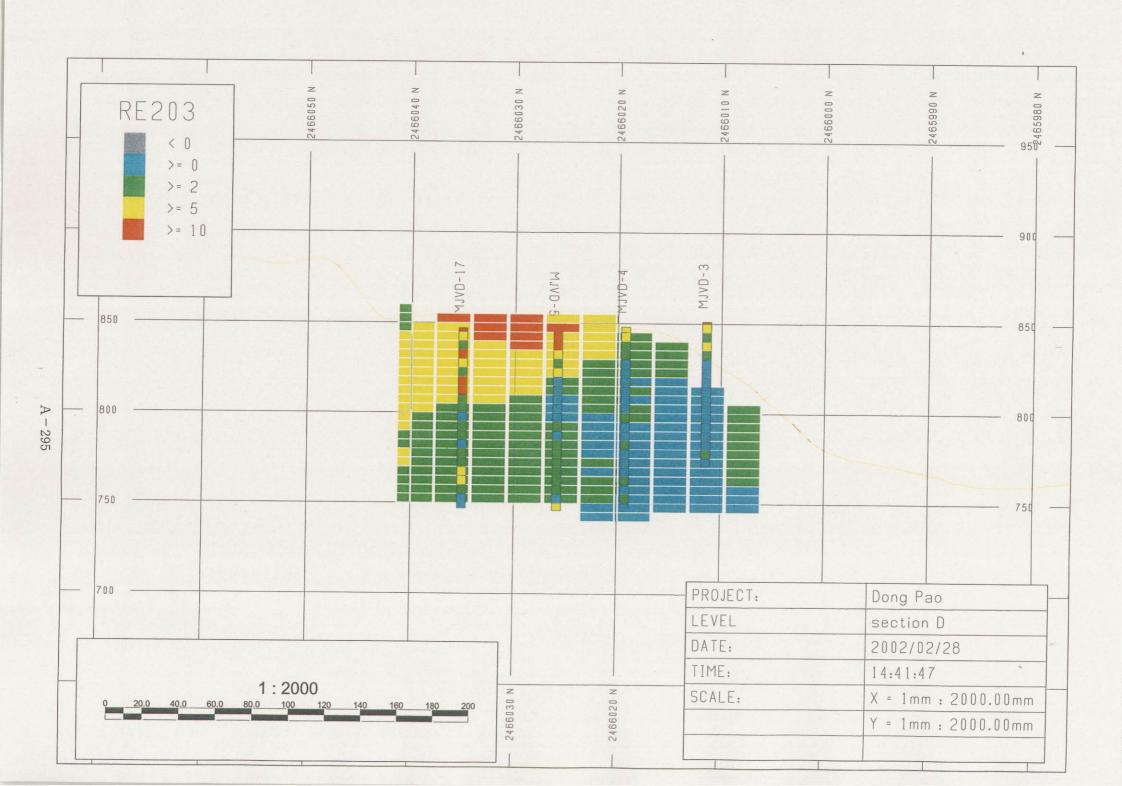


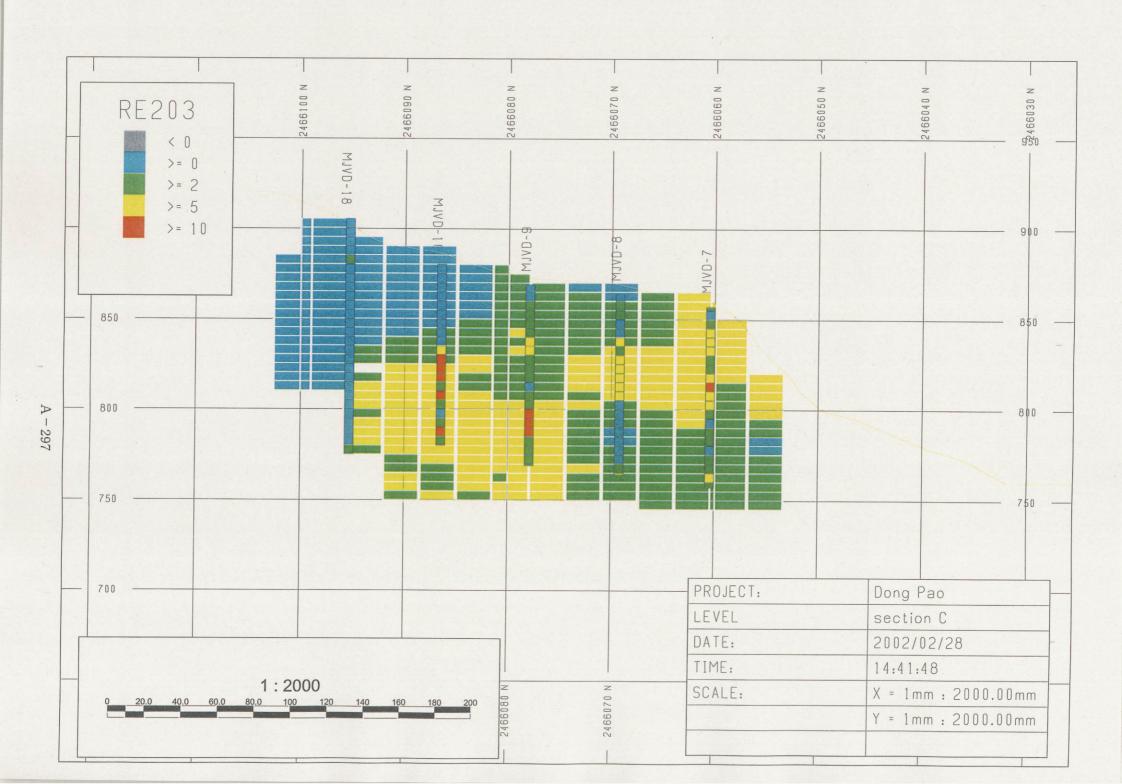


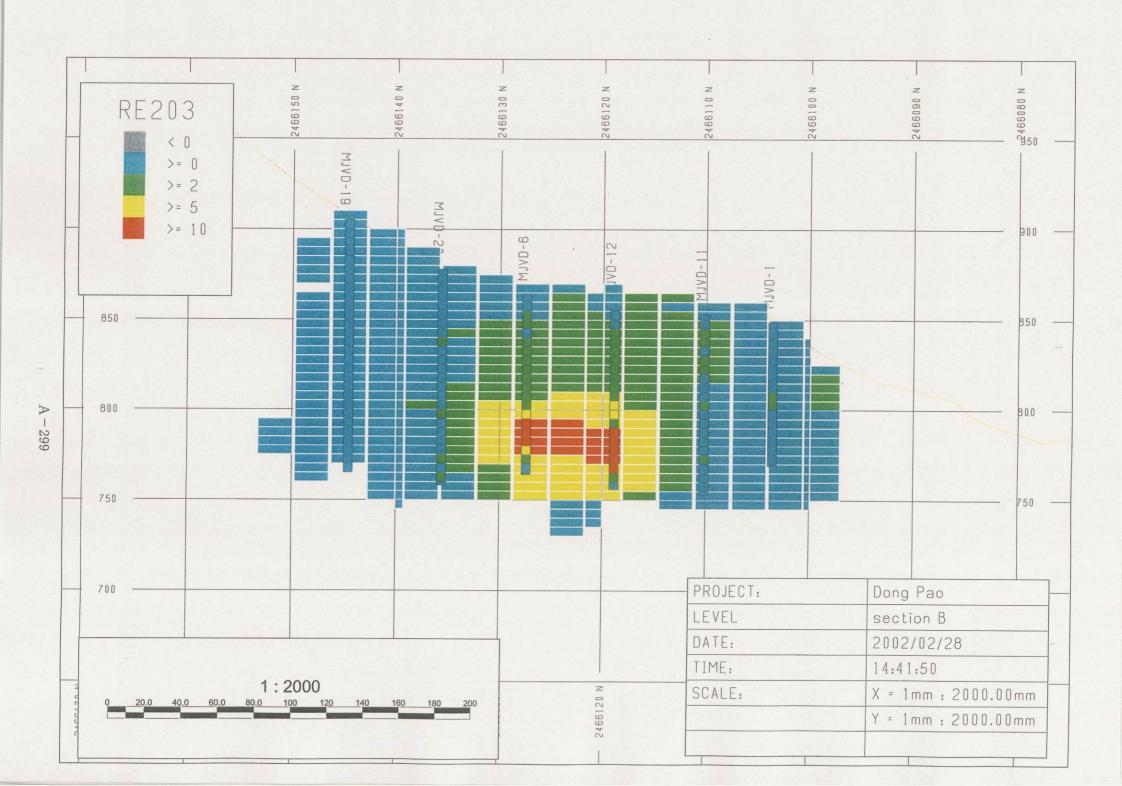


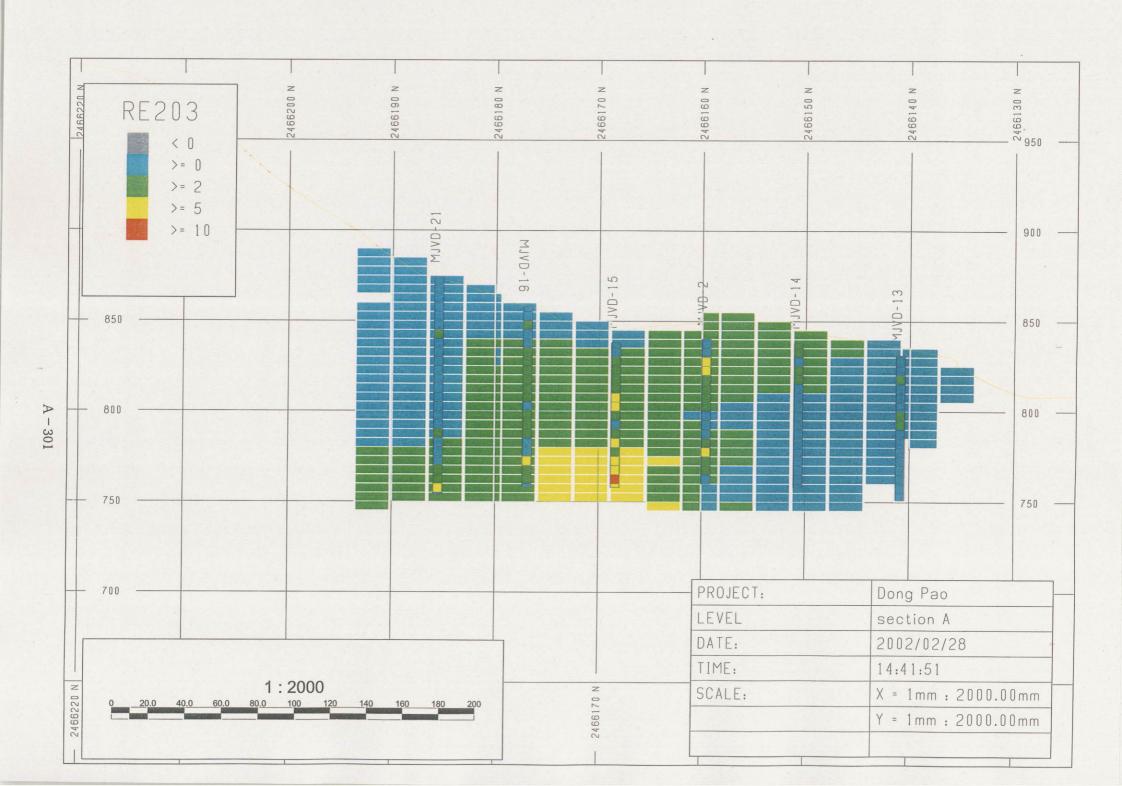


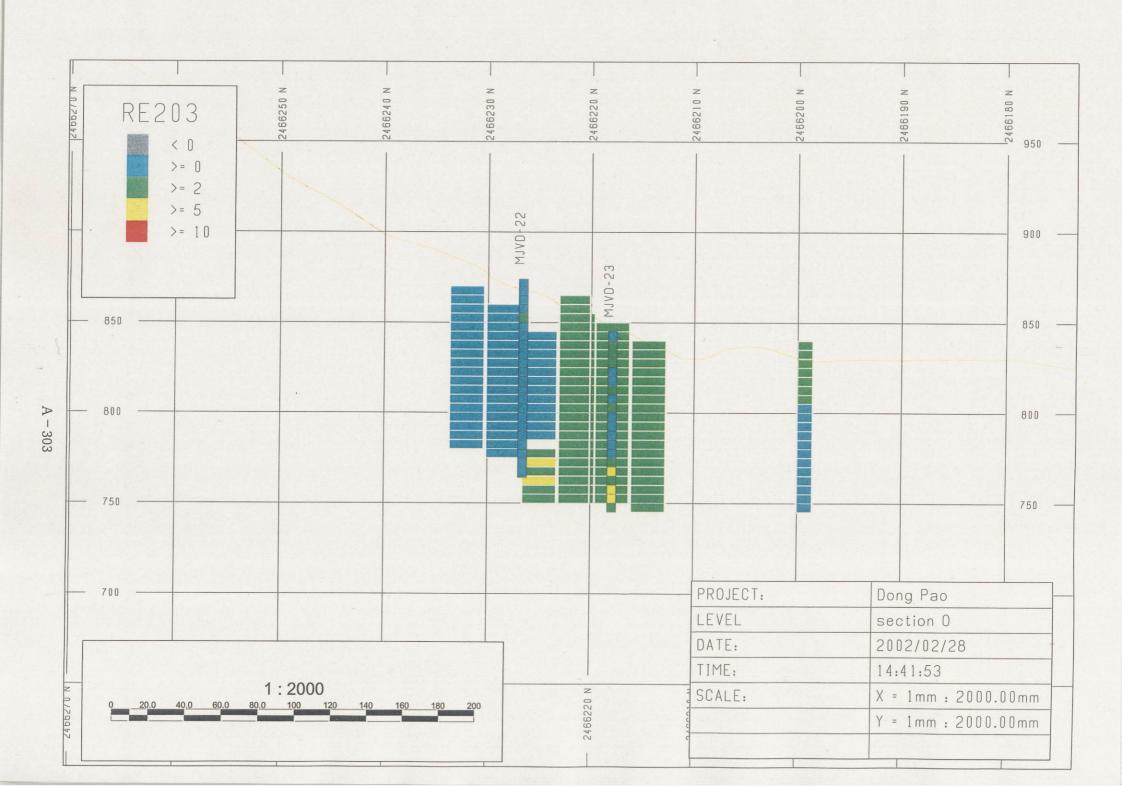
Apx.11 Vertical section of T-RE₂O₃ grade distribution (11 layers)

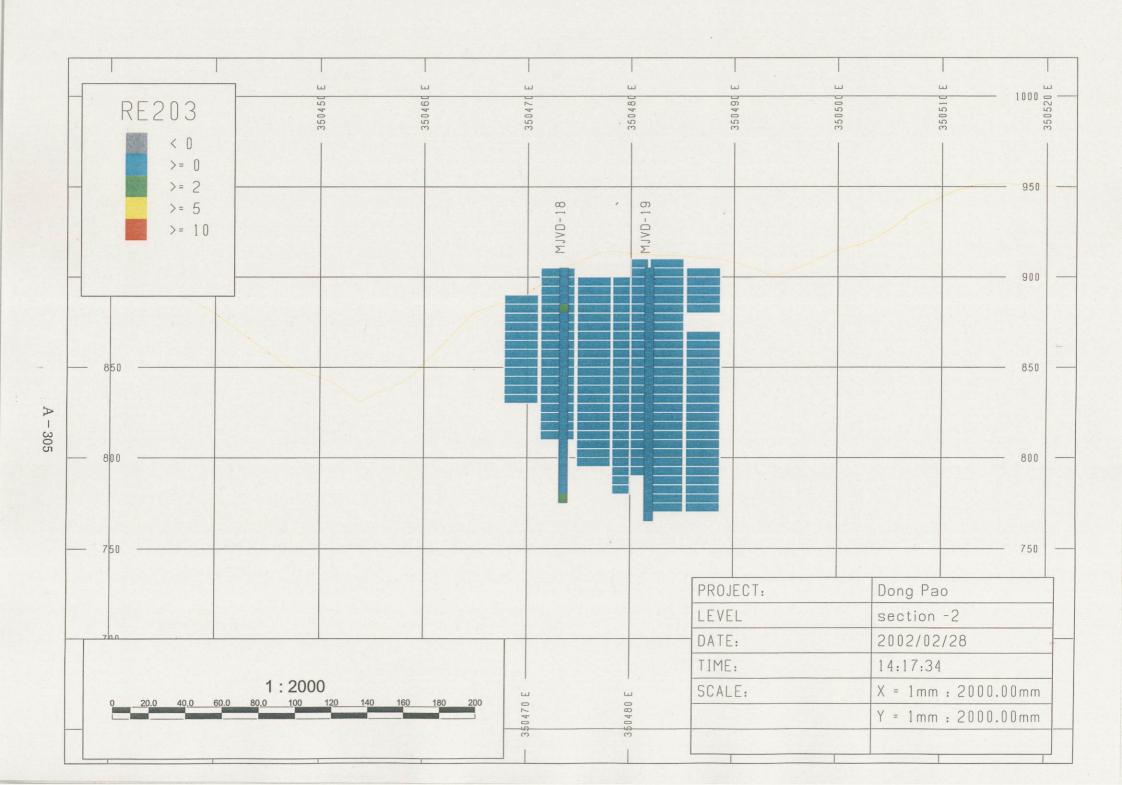


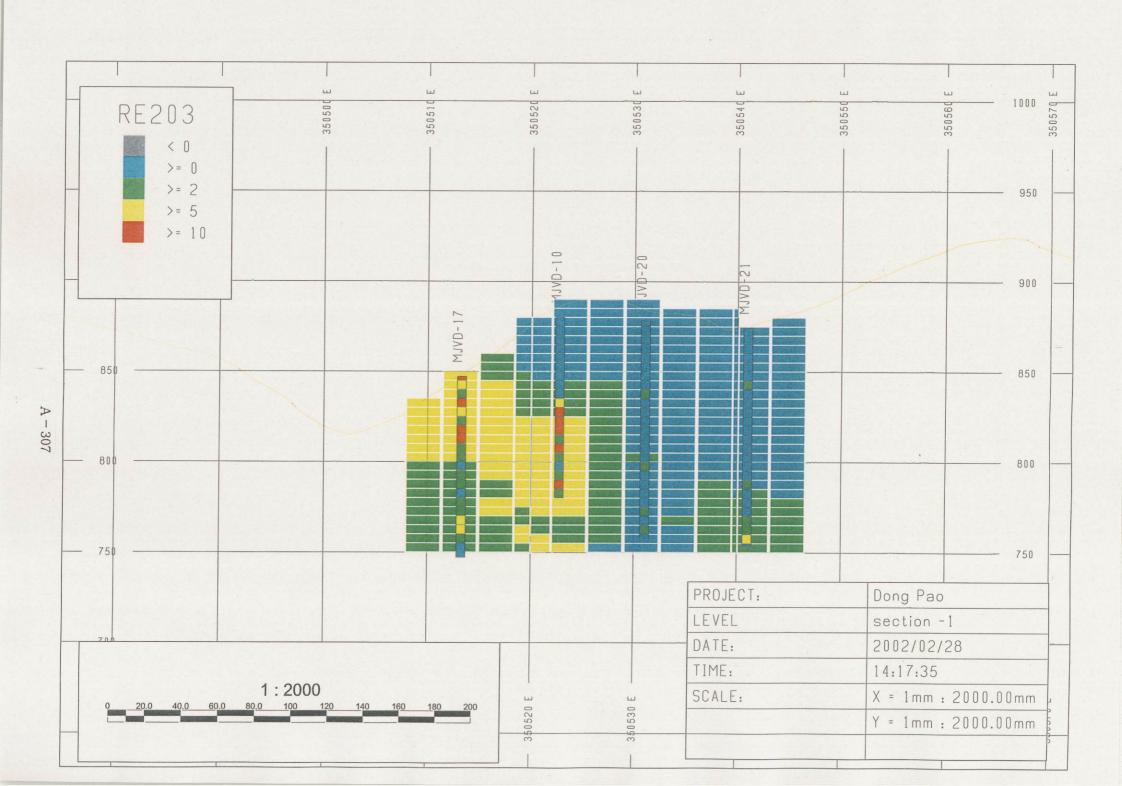


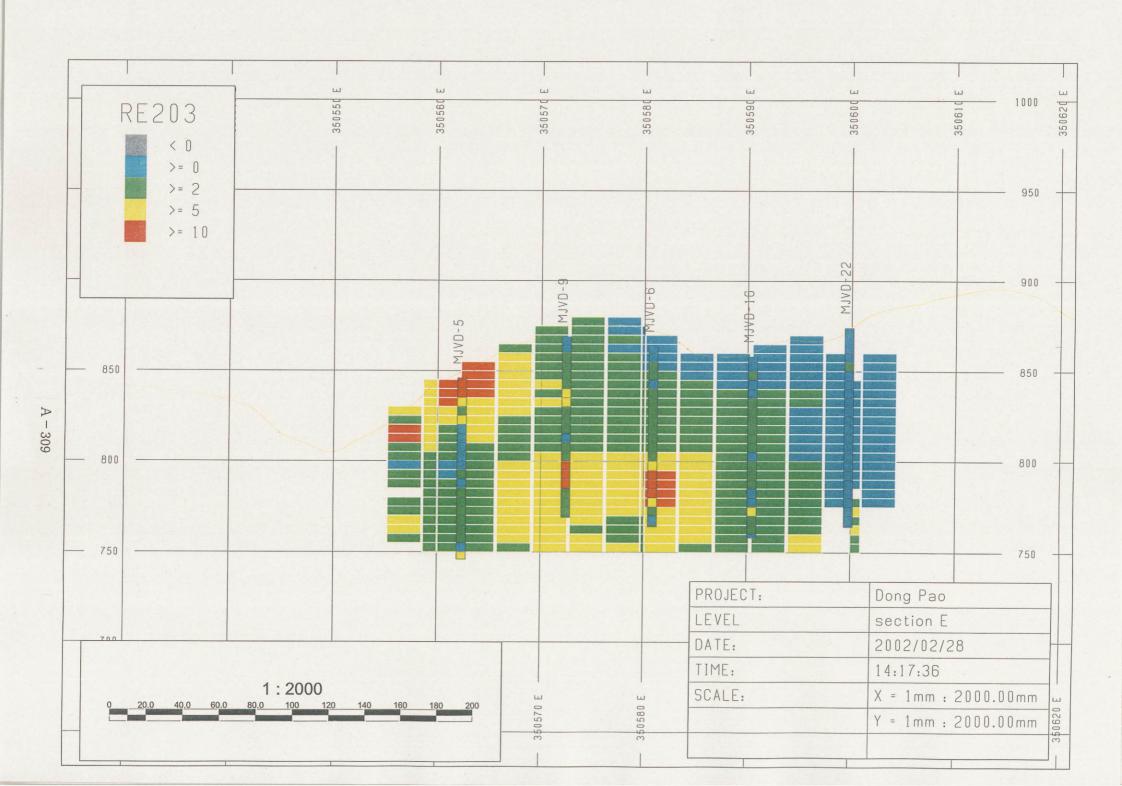


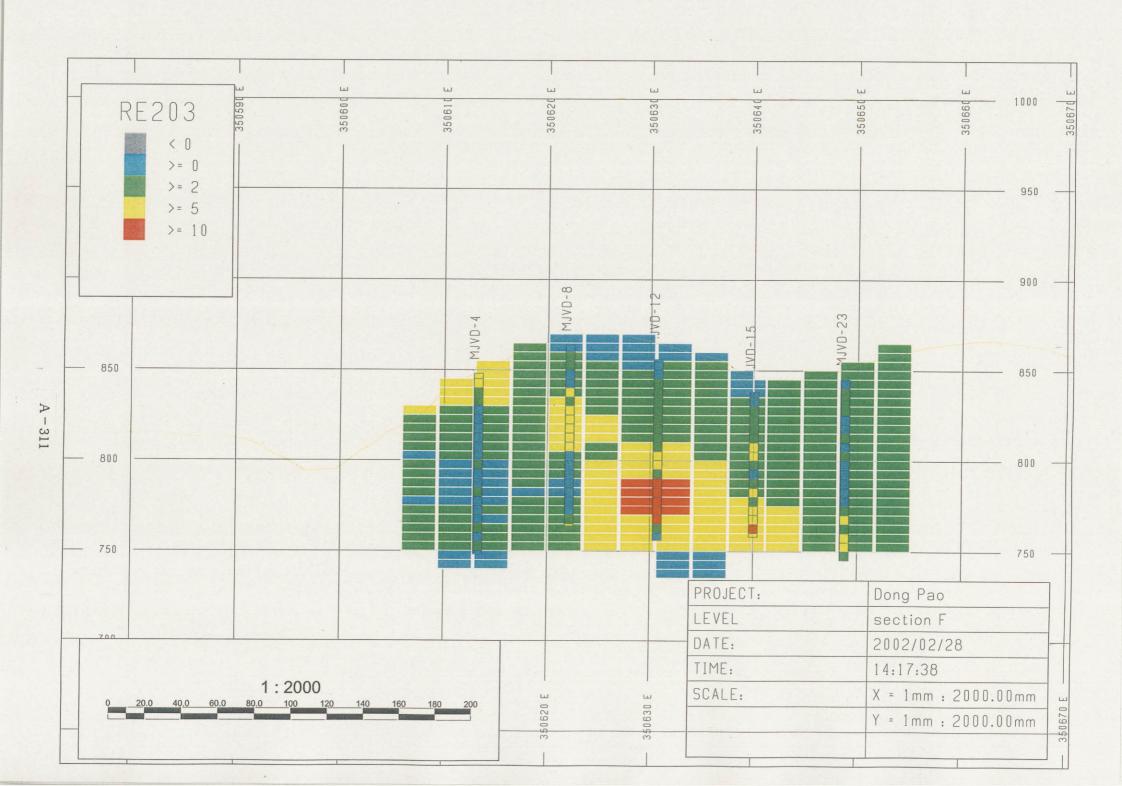


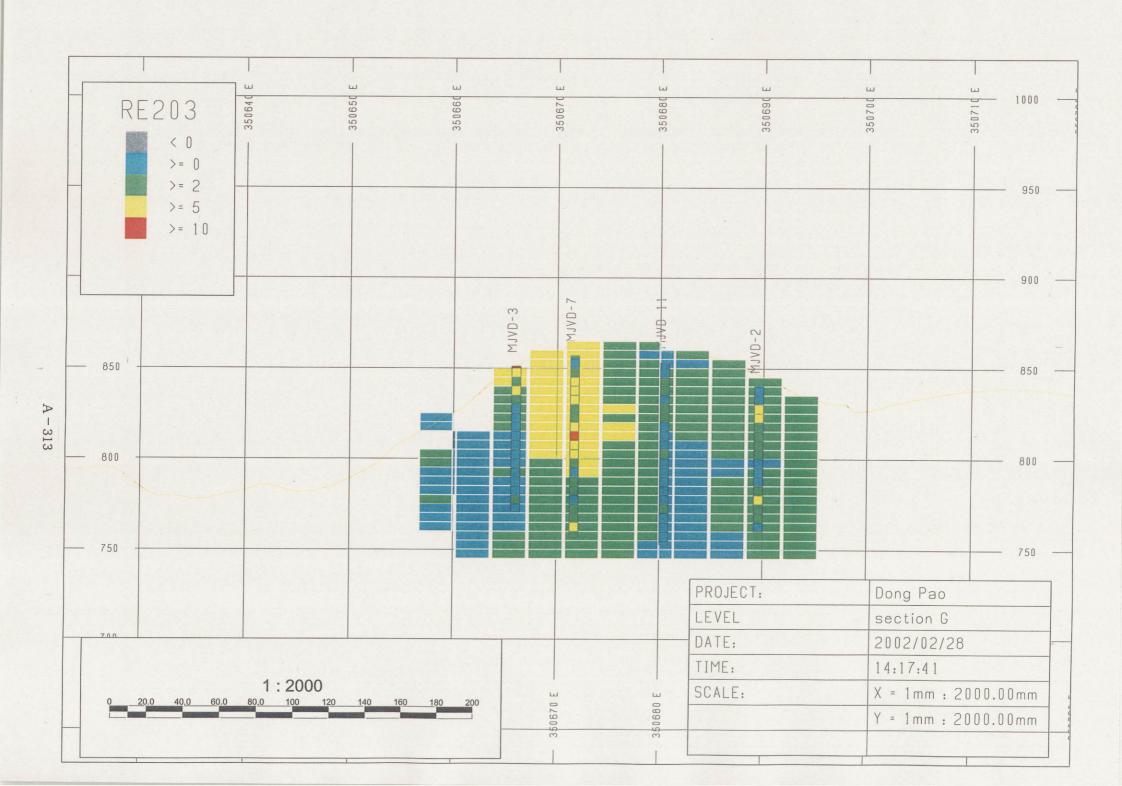


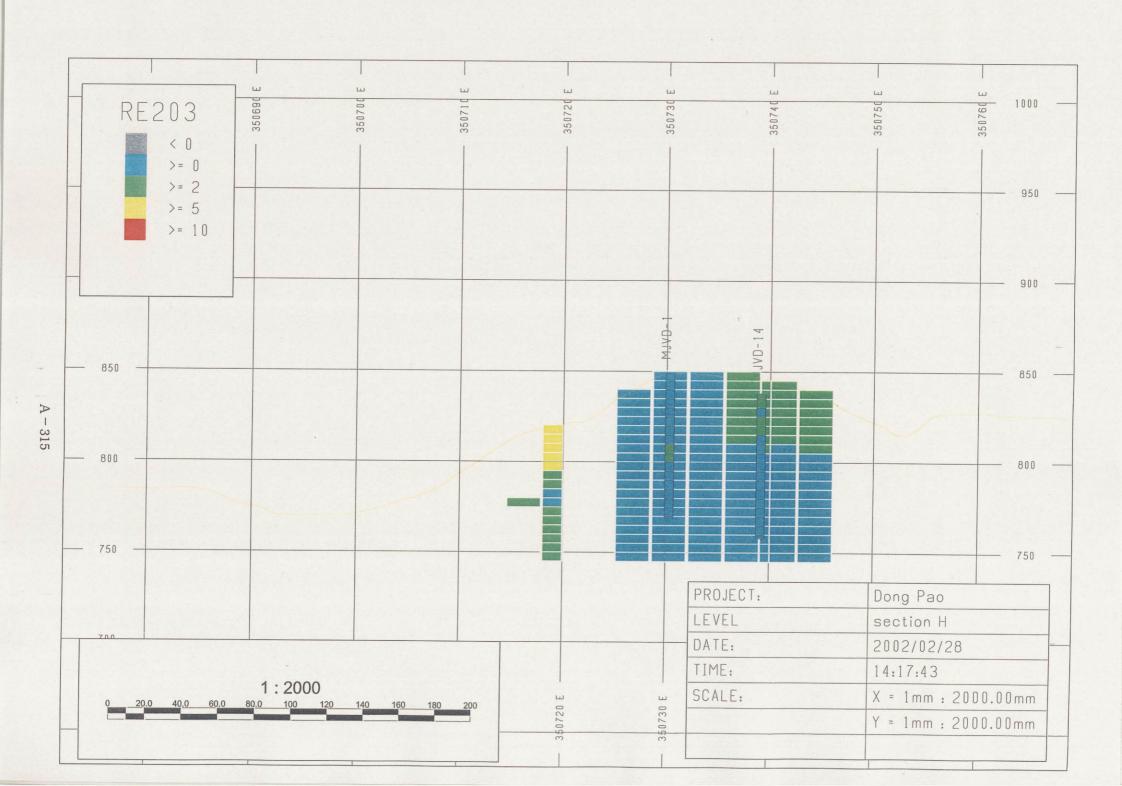












Apx.12 Results of the specific gravity measurements of rock and ore samples in the F3 orebody

Speed of supersonic wave(P-wave) of ore and rock In Dong Pao Area

No.	F3 ore body	SampleNo.	Description	conducted speed (km/sec)	classification of rock
1	*	F3 ore body P-3	yellow bastnaesite rich ore	1.18	strong weathered ore
2	*	MJVD-7 33.6m	dark gray ore with barite	2.25	strong weathered ore
3	*	RS-N1	dark gray ore with barite breccia of F3	1.38	strong weathered ore
4		TB-4-Pit ore	parplish black ore of F7 western ore body	0.76	strong weathered ore
5	*	F3 ore body	yellow bastnaesite rich ore	1.10	medium~weak weathered ore
6		F7N-2	black ore of F7 center part	1.66	medium~weak weathered ore
7		F7N-1	brecciated syenite	3.93	hard altered rock
88	*	MJVD-19 134.8m	grey brecciated limestone with fluorite	2.74	hard rock
9	*	MJVD-17 11.8m	black and light yellow brecciated ore	3.38	hard~medium weathered ore
10	*	MJVD-9 20.45m	dark greyish brown ore		weak ~very strong weathered ore
11	*	MJVD-3 67.05m	brecciated syenite	3.12	hard rock
12		001220N3	brown weathered syenite near F9 ore body	1.11	weak weathered ore

Apx.13 Results of the P wave velocity of rock and ore samples in the F3 orebody

Gravity of ore samples of Dong Pao F3 ore body

Sample No.	Depth (m)	Apparent gravity Natural state Wet state Dry state			Ratio fo water	Effective	Moisture	Density of soil grain	
		Natural state	Wet state	Dry state	absorptive %	pore ratio %	content %	$\rho s(g/cm3)$	Remark
ГО	3.80							4.025	black weathered ore , sandy
P2	4.30							4.397	blackish grey weathered ore, sandy
P2	3.00			, .					light grey weathered ore, sandy
P2	4.75							4.356	light grey weathered ore, sandy
MJVD-6	20.50							2.724	yellow weathered ore, sandy
MJVD-15	75.80							3.670	light yellow weathered ore, sandy
MJVD-12	81.25							4.718	yellow weathered ore, soft
MJVD-7	19.50								blackish grey weathered ore, sandy
MJVD-11	21.40	2.472	2.601	2.458	5.81	14.28	0.58		whitish yellow weak weathered ore
MJVD-20	28.33	2.715	2.785	2.704	2.99	8.09	0.40		light grey barite rich ore
MJVD-17	38.60	2.566	2.610	2.559	2.01	5.15	0.28		purplish grey fluorite ore
MJVD-13	79.40	2.748	2.785	2.747	1.39	3.81	0.07		yellowish grey weak weathered ore
MJVD-7	22.95	2.785	2.820	2.780	1.46	4.05	0.19		weak weathered barite-fluorite ore
MJVD-12	67.50	3.640	3.750	3.629	3.32	12.06	0.29		weak weathered barite-fluorite ore
MJVD-4	61.30	2.904	2.937	2.900	1.27	3.69	0.13	•	light grey weak weathered ore

* P: Pit samples
* MJVD-: Borring core samples

Apx.14 Vertical section of 4 kinds of ore distribution (11 layers)

