581.30m--650.00 Bronzitite

Mineral assemblage and rock facies is similar to the upper bronzitite. a comparatively large quantity of clinopyroxene is included. Sulphide dissemination zone is observed between 584.00m and 626.00m.

The results of microscopic observation of thin section of rocks are as follows :

TS-5 (614.50m) : Olivin websterite

Texture : Holocrystalline equigranular orthocumulate to adocumulate.

Cumulus minerals : Mainly large quantities of olivin which grain size generally shows around 5 to 1 mm, and include medium quantities of orthopyroxene and clinopyroxene which grain size shows average 5 to 1 mm.

Intercumulus minerals : Small quantities of anhedral plagioclase which grain size shows average 1 to 0.1 mm, and extremely small quantities of anhedral phlogopite and opaque minerals which grain size shows average 0.1 mm.

(4) MJZS-9 (400.00m)

The bed rock appears after the green and pale green soil with gabbro boulder portion of 8.00 meters.

8.00m--190.50m Gabbro

It shows pale green, green to dark green color, and medium to coarse grain, minute, hard. Texture is holocrystalline and equigranular. Mineral assemblage is mainly composed of plenty plagioclase, and orthopyroxene with green to pale green color, clinopyroxene with light purple color. Plagioclase shows a white spot characteristically. Weak and small vein of chlorite is recognized in some parts.

190.50m--328.54m Websterite

It shows dark green color, and medium grain. Texture is holocrystalline and equigranular. Mineral assemblage is mainly composed of about equal quantity of orthopyroxene and clinopyroxene, clinopyroxene shows light purple color and scattered pattern. Weak brecciated zone is observed between 246.00m and 251.00m.

328.54m--400.00m Bronzitite

It shows dark green color. Texture is a coarse grain, holocrystalline and equigranular. Mineral assemblage is almost all composed of orthopyroxene (green to dark green in color) and include a small quantity of clinopyroxene in some parts. Small vein of calcite is observed between 328.54m and 342.90m, sulphide dissemination zone which is mainly composed of pyrite, pyrrhotite and chalcopyrite is recognized along to the vein.

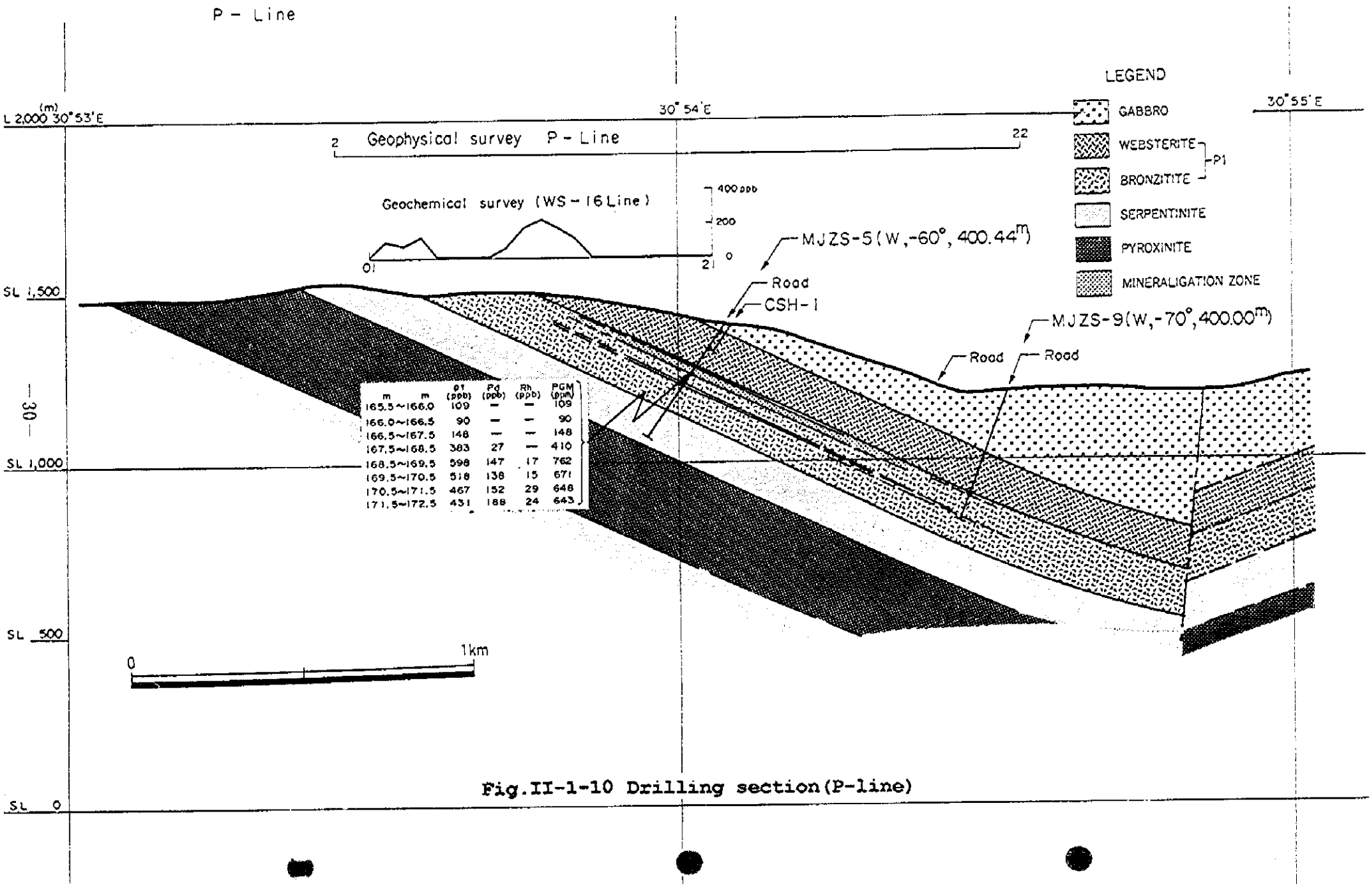

Fig.II-1-10 Drilling section(P-line)

Weak sulphide mineralization is also observed near the bottom of the drill hole.

(5) MJZS-10 (400.00m)

The bed rock appears after the white soil with gabbro boulder portion of 24.89 meters.

24.89m--196.50m Gabbro

It shows green to dark green color, and medium grain, minute , hard. Texture is holocrystalline and equigranular. Mineral assemblage is mainly composed of plenty plagioclase, a small quantity of orthopyroxene and clinopyroxene. Weak and small vein of chlorite is recognized in some parts. Weak brecciated zone(foult?) is observed between 135.00m and 148.00m, 156.50m and 157.00m, 184.00m and 187.00m.

196.50m--301.50m Websterite

It shows green color and light purple scattered pattern, and medium to coarse grain. Texture is holocrystalline and equigranular. Mineral assemblage is mainly composed of orthopyroxene and clinopyroxene, clinopyroxene shows a clear light purple spots. Fault breccia zone is observed between 204.00m and 208.00m, 231.00m and 237.00m.

301.50m--400.00m Bronzitite

It shows dark green color. Texture is a coarse grain, holocrystalline and equigranular. Mineral assemblage is almost all composed of orthopyroxene. Brecciated zone is observed between 351.50m and 355.50m, 373.00m and 373.50m, 379.00m and 381.00m, and 386.8m. In the uppermost of this layer an extremely small quantity of olivin is included and becomes extinct gradually from 323m. On the other hand sulphide dissemination which mainly composed of pyrite, pyrrhotite and chalcopyrite increase. Sulphide dissemination becomes rich around 370m to 379m, and then becomes extinct.

The results of microscopic observation of thin section of rocks are as follows :

TS-6 (371.50m) : Websterite

Texture : Holocrystalline equigranular orthocumulate to adocumulate.

Cumulus minerals : Mainly large to medium quantities of subhedral to anhedral orthopyroxene and clinopyroxene which grain size generally shows around 5 to 1 mm, and many times it shows round form.

Intercumulus minerals : Medium quantities of anhedral orthopyroxene, and small quantities of subhedral to anhedral plagioclase, phlogopite and opaque minerals which grain size shows average 1 to 0.1 mm.

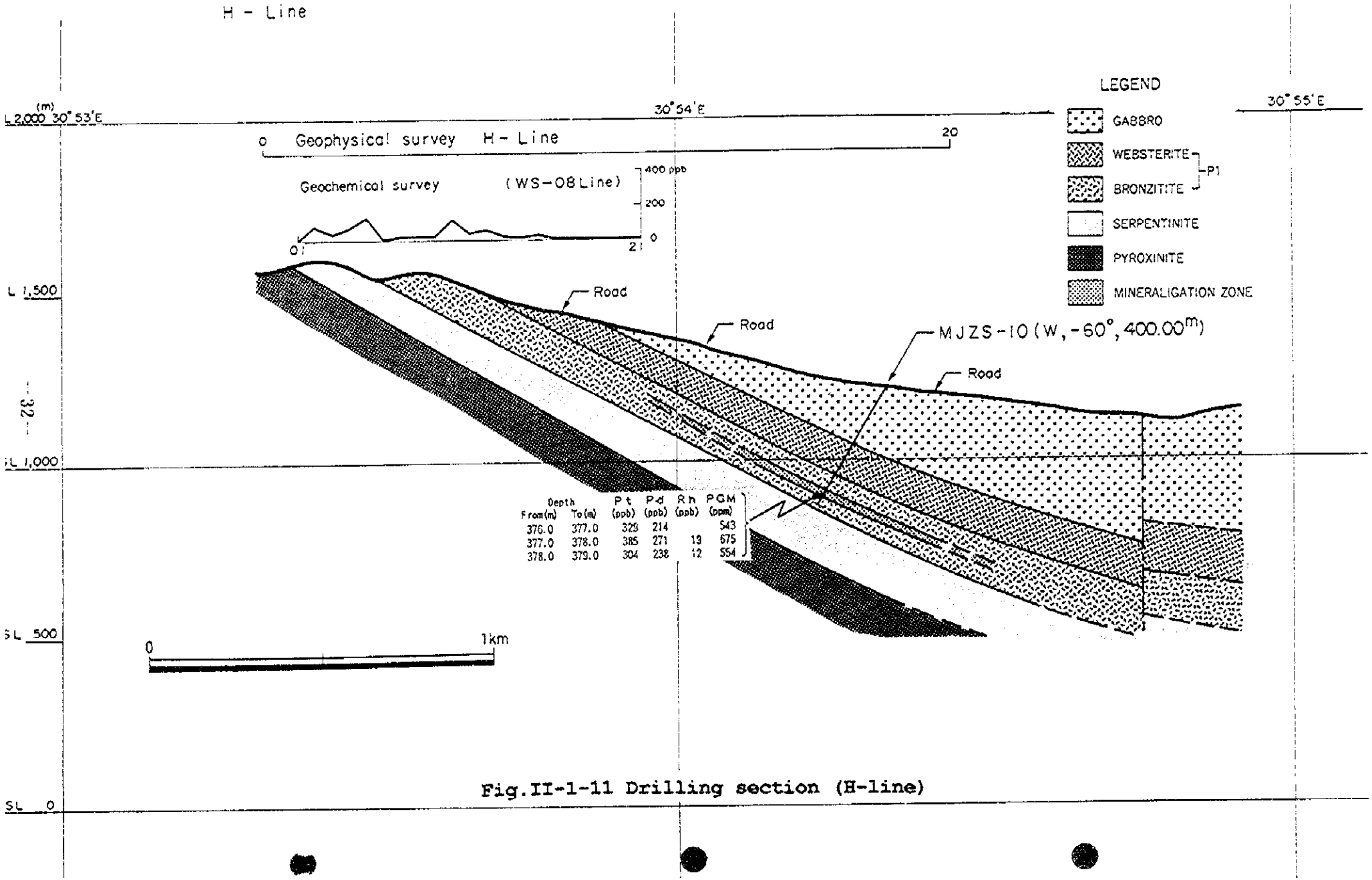

Fig.II-1-11 Drilling section (H-line)

TS-7 (394.50m) : Olivin websterite

Texture : Holocrystalline equigranular adocumulate.

Cumulus minerals : Mainly medium quantities of subhedral olivin which grain size generally shows around 5 to 1 mm, and include medium quantities of subhedral to anhedral orthopyroxene and clinopyroxene which grain size shows average 5 to 1 mm.

Intercumulus minerals : Small quantities of subhedral to anhedral phlogopite which grain size shows average 1 mm, and extremely small quantities of anhedral plagioclase and opaque minerals which grain size shows average 0.1 mm.

1-2-2 Mineralization

Geologic cross section by drilling were shown in Fig.II-1-7 to Fig.II-1-11. The results of microscopic observation for polished sections of ores are shown in Table II-1-10. the results of chemical analysis of ores are shown in Table II-1-11. The results of EPMA analysis are shown in Table II-1-12 and Log showing of chemical analysis of each holes are shown in Fig.II-1-12.

Summary of mineralization in each hole are as follows :

(1) MJZS-6

Sulphide dissemination is observed in the depth between 327m and 348m in the bronzitite layer which exist just under the serpentinite layer. This mineralization is mainly composed of pyrrhotite, chalcopyrite and accompany an extremely small quantity of pyrite. Grain size is maximum 2mm, generally less than 1mm and around 0.5mm. these minerals show euhedral usually and irregular anhedral mineral that fills a grain boundary is also recognized. The sulphide content is estimated maximum about 2%.

Though platinum group minerals can't be observed by naked eye, by the result of chemical analysis these minerals concentrate in the lowest portion (338m to 343m) of sulphide disseminate zone and show maximum platinum group elements content 692ppb.

Results of microscopic observation of ore polish section samples are as follows.

PS-6 (338.50m) : Disseminated ore in the bronzitite.

Rock name defined under microscope : Olivin websterite

Texture : Holocrystalline equigranular adocumulate.

Cumulus minerals : Large quantities of subhedral orthopyroxene , small quantities of subhedral to anhedral clinopyroxene and medium quantities of euhedral to subhedral olivin, these grain size shows average 5 to 1 mm.

Intercumulus minerals : Extremely small quantities of anhedral plagioclase and opaque minerals which grain size shows average 1 to 0.1 mm.

Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite > pentlandite > chalcopyrite. Pyrrhotite shows irregular shape 0.1 to 2mm size. Pentlandite shows granular shape 0.05 to 0.1mm size. Chalcopyrite shows irregular shape with around 0.02 mm size. They are observed closely assembled with each other.

PS-7 (339.50m) : Disseminated ore in the bronzitite.

Rock name defined under microscope : Olivin websterite

Texture : Holocrystalline equigranular adocumulate.

Cumulus minerals : Medium quantities of subhedral orthopyroxene ,clinopyroxene and olivin. these grain size shows average 5 to 1 mm.

Intercumulus minerals : Extremely small quantities of anhedral olivin, plagioclase and opaque minerals which grain size shows average 1 to 0.1 mm.

Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite > pentlandite > chalcopyrite. Pyrrhotite shows irregular shape 0.1 to 2mm size. Pentlandite shows granular and euhedral shape 0.05 to 0.1mm size. Chalcopyrite shows irregular shape with around 0.02 mm size. They are observed closely assembled with each other.

PS-8 (3451.50m) : Disseminated ore in the bronzitite.

Rock name defined under microscope : Olivin websterite

Texture : Holocrystalline equigranular adocumulate.

Cumulus minerals : Medium quantities of subhedral orthopyroxene ,clinopyroxene and olivin, these grain size shows average 5 to 1 mm.

Intercumulus minerals : Intercumulus portion is filled by clay minerals and include extremely small quantities of anhedral opaque minerals which grain size shows average 1 to 0.1 mm.

Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite > pentlandite > chalcopyrite > Pyrite. Pyrrhotite shows irregular shape with around 0.2mm size. Pentlandite shows granular and euhedral shape with 0.05 to 0.1mm size. Chalcopyrite and Pyrite shows irregular shape with around 0.02 mm size. They are observed closely assembled with each other. Moncheite{(Pt,Pd)(Te,Bi)2}, Sperrylite{(Pt,Rh)(As,Sb,S)2} are recognized as a platinum group minerals, these two minerals show irregular shape with around 15 μm and is observed in boundary portion between sulphide and cumulate minerals

Table II-1-11 Results of chemical analysis of ore samples(1)

No.	Drill hole		Depth		Au	Ag	Cu	Co	Ni	Pt	Pd	Rh	S	Cr
	Name	No.	From(m)	To(m)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppb)	(ppb)	(ppb)	(%)	(ppm)
1	MJZS-6	SA- 1	327.00	328.00	3	2.94	43	87	508	< 10	39	< 10	0.03	3,100
2	MJZS-6	SA- 2	328.00	329.00	14	0.46	358	98	872	< 10	57	< 10	0.13	3,130
3	MJZS-6	SA- 3	329.00	330.00	34	4.41	448	96	931	< 10	< 10	< 10	0.15	3,170
4	MJZS-6	SA- 4	330.00	331.00	17	1.86	416	117	1,290	< 10	< 10	< 10	0.12	2,840
5	MJZS-6	SA- 5	331.00	332.00	18	1.08	329	108	1,030	< 10	< 10	< 10	0.10	3,130
6	MJZS-6	SA- 6	332.00	333.00	42	1.29	544	105	1,130	21	< 10	< 10	0.12	3,500
7	MJZS-6	SA- 7	333.00	334.00	43	2.36	516	108	1,140	67	< 10	< 10	0.12	3,730
8	MJZS-6	SA- 8	334.00	335.00	45	1.56	682	109	1,250	44	< 10	< 10	0.25	3,680
9	MJZS-6	SA- 9	335.00	336.00	82	2.63	653	110	1,240	76	< 10	< 10	0.23	3,660
10	MJZS-6	SA-10	336.00	337.00	88	3.16	530	105	1,140	100	< 10	< 10	0.21	3,420
11	MJZS-6	SA-11	337.00	338.00	112	1.50	503	96	1,120	272	34	< 10	0.18	3,470
12	MJZS-6	SA-12	338.00	339.00	146	0.49	531	105	1,220	534	79	< 10	0.15	3,810
13	MJZS-6	SA-13	339.00	340.00	152	3.41	429	101	1,140	541	145	15	0.14	3,610
14	MJZS-6	SA-14	340.00	341.00	91	0.44	317	98	980	479	98	19	0.11	3,610
15	MJZS-6	SA-15	341.00	342.00	72	0.44	289	95	881	511	154	27	0.11	3,670
16	MJZS-6	SA-16	342.00	343.00	34	0.16	231	102	900	409	262	18	0.09	3,650
17	MJZS-6	SA-17	343.00	344.00	10	0.11	90	87	664	196	135	< 10	0.05	3,500
18	MJZS-6	SA-18	344.00	345.00	11	0.21	90	71	562	120	103	< 10	0.04	3,720
19	MJZS-6	SA-19	345.00	346.00	16	3.37	101	88	688	87	127	< 10	0.05	3,670
20	MJZS-6	SA-20	346.00	347.00	11	0.68	85	84	645	41	139	< 10	0.04	3,710
21	MJZS-6	SA-21	347.00	348.00	39	0.11	67	88	882	13	105	< 10	0.04	3,510

No.	Drill hole		Depth		Au	Ag	Cu	Co	Ni	Pt	Pd	Rh	S	Cr
	Name	No.	From(m)	To(m)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppb)	(ppb)	(ppb)	(%)	(ppm)
22	MJZS-7	SA-36	443.00	444.00	17	1.25	248	64	539	< 10	188	< 10	0.18	3,460
23	MJZS-7	SA-37	444.00	445.00	16	1.25	227	66	633	< 10	170	< 10	0.19	3,670
24	MJZS-7	SA-38	445.00	446.00	18	1.31	260	65	567	< 10	225	< 10	0.18	3,550
25	MJZS-7	SA-39	446.00	447.00	11	1.16	270	67	586	< 10	208	< 10	0.20	3,770
26	MJZS-7	SA-40	447.00	448.00	17	1.18	416	72	735	< 10	172	< 10	0.25	3,950
27	MJZS-7	SA-41	448.00	449.00	25	0.96	505	72	799	< 10	190	< 10	0.27	3,820
28	MJZS-7	SA-42	449.00	450.00	12	1.01	293	68	808	< 10	180	< 10	0.21	4,380
29	MJZS-7	SA-43	450.00	451.00	15	1.30	303	76	659	< 10	149	< 10	0.19	4,460
30	MJZS-7	SA-44	451.00	452.00	16	0.81	343	74	686	< 10	318	< 10	0.21	5,280
31	MJZS-7	SA-45	452.00	453.00	16	0.70	316	73	661	< 10	151	< 10	0.21	4,420
32	MJZS-7	SA-46	453.00	454.00	15	0.78	337	76	715	< 10	85	< 10	0.20	4,470
33	MJZS-7	SA-47	454.00	455.00	21	0.71	371	74	768	< 10	35	< 10	0.21	4,600
34	MJZS-7	SA-48	455.00	456.00	17	0.83	366	72	760	< 10	124	< 10	0.21	4,220

Table II-1-11 Results of chemical analysis of ore samples(2)

No.	Drill hole		Depth		Au (ppb)	Ag (ppm)	Cu (ppm)	Co (ppm)	Ni (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)	Cr (ppm)
	Name	No.	From(m)	To(m)										
35	MJZS-7	SA-49	456.00	457.00	19	0.81	335	77	750	< 10	236	< 10	0.19	5,280
36	MJZS-7	SA-50	457.00	458.00	22	1.51	399	79	815	< 10	115	< 10	0.20	4,790
37	MJZS-7	SA-51	458.00	459.00	30	0.88	424	83	842	< 10	168	< 10	0.23	4,760
38	MJZS-7	SA-52	459.00	460.00	29	0.71	339	84	809	< 10	207	< 10	0.20	4,570
39	MJZS-7	SA-53	460.00	461.00	38	0.69	377	89	853	< 10	153	< 10	0.21	4,410
40	MJZS-7	SA-54	461.00	462.00	43	0.90	374	102	895	< 10	88	< 10	0.17	3,800
41	MJZS-7	SA-55	462.00	463.00	48	1.11	424	103	996	< 10	156	< 10	0.27	3,760
42	MJZS-7	SA-56	463.00	464.00	31	0.41	233	53	520	< 10	61	< 10	0.13	1,820
43	MJZS-7	SA-57	464.00	465.00	68	0.74	497	103	1,081	< 10	150	< 10	0.21	3,230
44	MJZS-7	SA-58	465.00	466.00	72	0.51	422	103	1,012	< 10	101	< 10	0.21	3,230
45	MJZS-7	SA-59	466.00	467.00	75	0.46	429	101	1,014	48	239	< 10	0.20	3,220
46	MJZS-7	SA-60	467.00	468.00	100	0.70	518	107	1,143	171	350	< 10	0.25	3,300
47	MJZS-7	SA-61	468.00	469.00	101	0.58	573	108	1,124	339	266	< 10	0.27	3,120
48	MJZS-7	SA-62	469.00	470.00	130	0.72	447	103	1,061	514	442	27	0.21	3,230
49	MJZS-7	SA-63	470.00	471.00	106	1.55	354	102	974	486	412	20	0.19	3,260
50	MJZS-7	SA-64	471.00	472.00	59	0.98	251	97	774	255	394	24	0.12	3,290
51	MJZS-7	SA-65	472.00	473.00	28	0.56	179	98	701	195	396	25	0.10	3,280
52	MJZS-7	SA-66	473.00	474.00	18	1.40	140	99	651	241	276	23	0.07	3,430
53	MJZS-7	SA-67	474.00	475.00	20	0.13	120	96	637	76	163	10	0.06	3,190
54	MJZS-7	SA-68	475.00	476.00	24	0.08	108	99	643	79	208	< 10	0.06	3,210
55	MJZS-7	SA-69	476.00	477.00	17	0.06	96	100	646	74	172	< 10	0.06	3,150
56	MJZS-7	SA-70	477.00	478.00	16	0.08	95	98	630	55	188	< 10	0.06	3,040
57	MJZS-7	SA-71	478.00	479.00	15	0.10	95	97	637	77	242	< 10	0.06	3,220
58	MJZS-7	SA-72	479.00	480.00	8	0.21	80	101	617	55	135	< 10	0.05	2,980
59	MJZS-7	SA-73	480.00	481.00	7	0.08	72	97	598	51	146	< 10	0.05	3,190
60	MJZS-7	SA-74	481.00	482.00	4	0.11	74	101	606	36	118	< 10	0.04	3,150
61	MJZS-7	SA-75	482.00	483.00	4	0.06	64	102	624	67	123	< 10	0.04	3,380
62	MJZS-7	SA-76	483.00	484.00	3	0.93	120	102	671	53	187	< 10	0.07	3,430
63	MJZS-7	SA-77	484.00	485.00	4	0.18	71	98	604	27	113	< 10	0.04	3,260

No.	Drill hole		Depth		Au (ppb)	Ag (ppm)	Cu (ppm)	Co (ppm)	Ni (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)	Cr (ppm)
	Name	No.	From(m)	To(m)										
64	MJZS-8	SA- 1	556.00	557.00	< 1	0.16	275	68	557	< 10	< 10	< 10	0.17	2,630
65	MJZS-8	SA- 2	557.00	558.00	5	0.23	277	68	550	< 10	< 10	< 10	0.17	2,690
66	MJZS-8	SA- 3	558.00	559.00	< 1	0.16	271	68	548	< 10	< 10	< 10	0.17	2,630
67	MJZS-8	SA- 4	559.00	560.00	7	0.21	269	69	561	< 10	< 10	< 10	0.17	2,580
68	MJZS-8	SA- 5	560.00	561.00	< 1	0.13	296	75	834	< 10	< 10	< 10	0.18	2,740

Table II-1-11 Results of chemical analysis of ore samples(3)

No.	Drill hole		Depth		Au	Ag	Cu	Co	Ni	Pt	Pd	Rh	S	Cr
	Name	No.	From(m)	To(m)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppb)	(ppb)	(ppb)	(%)	(ppm)
69	MJZS-8	SA- 6	561.00	562.00	3	0.63	238	66	523	< 10	< 10	< 10	0.18	2,710
70	MJZS-8	SA- 7	562.00	563.00	< 1	0.20	250	64	519	< 10	< 10	< 10	0.17	2,830
71	MJZS-8	SA- 8	563.00	564.00	1	0.13	277	69	538	< 10	< 10	< 10	0.18	2,820
72	MJZS-8	SA-30	610.00	611.00	70	0.40	525	110	1,190	< 10	20	< 10	0.23	3,070
73	MJZS-8	SA-31	611.00	612.00	82	0.33	494	104	1,080	< 10	13	< 10	0.23	2,810
74	MJZS-8	SA-32	612.00	613.00	42	0.20	371	101	940	< 10	11	< 10	0.16	2,970
75	MJZS-8	SA-33	613.00	614.00	76	0.23	451	100	1,010	35	27	< 10	0.19	2,930
76	MJZS-8	SA-34	614.00	615.00	162	0.35	658	111	1,260	230	113	< 10	0.27	2,900
77	MJZS-8	SA-35	615.00	616.00	139	0.30	613	111	1,170	230	124	< 10	0.23	2,940
78	MJZS-8	SA-36	616.00	617.00	144	0.31	583	111	1,140	423	301	10	0.21	3,060
79	MJZS-8	SA-37	617.00	618.00	139	0.43	572	102	1,090	392	264	26	0.18	2,910
80	MJZS-8	SA-38	618.00	619.00	119	0.31	510	103	1,060	274	332	37	0.16	3,050
81	MJZS-8	SA-39	619.00	620.00	49	0.23	314	103	869	205	317	36	0.11	2,930
82	MJZS-8	SA-40	620.00	621.00	28	1.37	205	100	732	130	239	18	0.07	2,990
83	MJZS-8	SA-41	621.00	622.00	18	0.57	126	101	685	88	262	25	0.06	3,020
84	MJZS-8	SA-42	622.00	623.00	9	0.15	108	101	661	68	150	< 10	0.06	3,260
85	MJZS-8	SA-43	623.00	624.00	9	0.13	89	98	635	66	118	< 10	0.05	3,140
86	MJZS-8	SA-44	624.00	625.00	10	0.26	111	96	661	73	252	14	0.06	3,200
87	MJZS-8	SA-45	625.00	626.00	13	0.17	146	100	699	66	231	< 10	0.06	3,060

No.	Drill hole		Depth		Au	Ag	Cu	Co	Ni	Pt	Pd	Rh	S	Cr
	Name	No.	From(m)	To(m)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppb)	(ppb)	(ppb)	(%)	(ppm)
88	MJZS-9	SA- 1	328.00	329.00	< 1	0.45	84	43	227	< 10	79	< 10	0.14	631
89	MJZS-9	SA- 2	329.00	330.00	< 1	0.43	75	47	241	< 10	160	< 10	0.15	570
90	MJZS-9	SA- 3	330.00	331.00	< 1	1.05	63	45	237	< 10	110	< 10	0.14	631
91	MJZS-9	SA- 4	331.00	332.00	2	0.17	30	44	204	< 10	11	< 10	0.08	765
92	MJZS-9	SA- 5	332.00	333.00	< 1	0.13	39	43	233	49	11	< 10	0.09	594
93	MJZS-9	SA- 6	333.00	334.00	< 1	0.32	81	45	222	< 10	< 10	< 10	0.10	571
94	MJZS-9	SA- 7	334.00	335.00	21	2.96	143	45	228	< 10	< 10	< 10	0.10	591
95	MJZS-9	SA- 8	335.00	336.00	7	2.27	32	46	216	< 10	< 10	< 10	0.07	661
96	MJZS-9	SA- 9	336.00	337.00	< 1	0.59	30	31	143	< 10	< 10	< 10	0.08	362
97	MJZS-9	SA-10	337.00	338.00	< 1	0.22	52	42	239	< 10	< 10	< 10	0.09	501
98	MJZS-9	SA-11	338.00	339.00	3	0.27	54	45	219	28	< 10	< 10	0.08	520
99	MJZS-9	SA-12	339.00	340.00	< 1	0.17	134	43	194	< 10	< 10	< 10	0.09	523
100	MJZS-9	SA-13	340.00	341.00	< 1	0.13	69	47	228	< 10	< 10	< 10	0.08	535
101	MJZS-9	SA-14	341.00	342.00	< 1	0.13	75	44	229	< 10	< 10	< 10	0.06	560
102	MJZS-9	SA-15	342.00	343.00	< 1	2.75	92	46	247	< 10	< 10	< 10	0.10	600

Table II-1-11 Results of chemical analysis of ore samples(4)

No.	Drill hole		Depth		Au	Ag	Cu	Co	Ni	Pt	Pd	Rh	S	Cr
	Name	No.	From(m)	To(m)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppb)	(ppb)	(ppb)	(%)	(ppm)
103	MJZS-9	SA-16	396.00	397.00	< 1	0.82	89	44	258	< 10	< 10	< 10	0.09	734
104	MJZS-9	SA-17	397.00	398.00	4	0.21	55	45	243	< 10	< 10	< 10	0.09	783
105	MJZS-9	SA-18	398.00	399.00	< 1	0.44	73	47	250	32	< 10	< 10	0.09	795

No.	Drill hole		Depth		Au	Ag	Cu	Co	Ni	Pt	Pd	Rh	S	Cr
	Name	No.	From(m)	To(m)	(ppb)	(ppm)	(ppm)	(ppm)	(ppm)	(ppb)	(ppb)	(ppb)	(%)	(ppm)
106	MJZS-10	SA- 1	370.00	371.00	24	0.21	345	80	756	< 10	< 10	< 10	0.19	4,110
107	MJZS-10	SA- 2	371.00	372.00	28	0.23	444	102	997	< 10	< 10	< 10	0.20	2,840
108	MJZS-10	SA- 3	372.00	373.00	18	0.23	530	89	857	< 10	< 10	< 10	0.19	2,430
109	MJZS-10	SA- 4	373.00	374.00	48	0.23	309	71	648	< 10	19	< 10	0.14	2,000
110	MJZS-10	SA- 5	374.00	375.00	57	0.16	429	97	948	46	27	< 10	0.17	2,590
111	MJZS-10	SA- 6	375.00	376.00	64	0.28	541	99	1,030	178	94	< 10	0.20	2,780
112	MJZS-10	SA- 7	376.00	377.00	51	0.25	507	107	1,130	329	214	< 10	0.21	2,710
113	MJZS-10	SA- 8	377.00	378.00	65	0.11	379	101	939	385	271	19	0.16	2,780
114	MJZS-10	SA- 9	378.00	379.00	67	0.54	211	96	741	304	238	12	0.10	2,930
115	MJZS-10	SA-10	379.00	380.00	34	0.45	202	94	712	229	166	< 10	0.10	2,770
116	MJZS-10	SA-11	380.00	381.00	23	0.60	152	94	627	135	197	< 10	0.07	2,930
117	MJZS-10	SA-12	381.00	382.00	10	0.30	131	98	655	98	220	< 10	0.07	2,750
118	MJZS-10	SA-13	382.00	383.00	6	0.16	114	93	603	109	206	< 10	0.07	2,970
119	MJZS-10	SA-14	383.00	384.00	6	0.08	102	98	629	68	230	< 10	0.07	3,030
120	MJZS-10	SA-15	384.00	385.00	8	0.29	101	96	616	61	192	< 10	0.06	2,960
121	MJZS-10	SA-16	385.00	386.00	6	0.30	81	90	565	56	226	< 10	0.06	2,860
122	MJZS-10	SA-17	386.00	387.00	1	1.10	61	96	569	53	156	< 10	0.05	3,030
123	MJZS-10	SA-18	387.00	388.00	1	0.47	59	95	567	43	123	< 10	0.04	2,950
124	MJZS-10	SA-19	388.00	389.00	< 1	0.37	79	94	583	44	151	< 10	0.05	3,280
125	MJZS-10	SA-20	389.00	390.00	< 1	0.08	71	101	610	47	147	< 10	0.05	3,340
126	MJZS-10	SA-21	390.00	391.00	3	0.20	59	96	581	33	126	< 10	0.05	3,430
127	MJZS-10	SA-22	391.00	392.00	1	0.18	79	99	617	18	133	< 10	0.05	3,460
128	MJZS-10	SA-23	392.00	393.00	< 1	0.43	62	96	586	20	93	< 10	0.05	3,350
129	MJZS-10	SA-24	393.00	394.00	< 1	0.64	51	96	576	18	55	< 10	0.04	3,470
130	MJZS-10	SA-25	394.00	395.00	< 1	0.50	57	97	591	< 10	79	< 10	0.04	3,380
131	MJZS-10	SA-26	395.00	396.00	2	0.80	54	96	583	< 10	58	< 10	0.04	3,350
132	MJZS-10	SA-27	396.00	397.00	< 1	0.44	81	91	624	32	138	< 10	0.06	3,420
133	MJZS-10	SA-28	397.00	398.00	< 1	0.20	118	95	626	< 10	44	< 10	0.06	3,490
134	MJZS-10	SA-29	398.00	399.00	3	0.50	114	102	717	< 10	83	< 10	0.07	3,720
135	MJZS-10	SA-30	399.00	400.00	< 1	0.70	48	93	564	< 10	37	< 10	0.04	3,500

characteristically.

PS-9 (342.50m) : Disseminated ore in the bronzitite.

Rock name defined under microscope : Olivin websterite

Texture : Holocrystalline equigranular orthocumulate to adocumulate.

Cumulus minerals : Medium quantities of subhedral to anhedral orthopyroxene ,clinopyroxene and olivin, these grain size shows average 5 to 1 mm.

Intercumulus minerals : Intercumulus portion is filled by clay minerals and include extremely small quantities of anhedral opaque minerals which grain size shows average 1 to 0.1 mm.

Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite > pentlandite = chalcopyrite. Pyrrhotite shows irregular shape. Pentlandite shows granular and euhedral shape. Chalcopyrite and Pyrite shows irregular shape. They show around 1 mm size and are observed closely assembled with each other.

(2) MJZS-7

Sulphide dissemination is observed from middle portion of the serpentinite to the bronzitite layer. Sulphide mineralization is not so strong in the serpentinite layer but becomes rather strong in the bronzitite layer. A kind of minerals, grain size and form of minerals are similar to MJZS-6 drilling. Sulphide content is estimated maximum approximately 5%.

Results of chemical analysis show platinum group element to be maximum 983 ppb. and concentrate in the lowest portion(468.00m-473.00m) of sulphide disseminated zone.

Results of microscopic observation of ore polished section samples are as follows.

PS-1 (468.50m) : Disseminated ore in the bronzitite.

Rock name defined under microscope : Olivin websterite

Texture : Holocrystalline equigranular adocumulate.

Cumulus minerals : Large quantities of euhedral to subhedral orthopyroxene, medium quantities of subhedral clinopyroxene and small quantities of subhedral olivin, these grain size shows average 5 to 1 mm.

Intercumulus minerals : Small quantities of anhedral opaque minerals, extremely small quantities of anhedral plagioclase and opaque minerals which grain size shows average 1 to 0.1 mm.

Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite > pentlandite > chalcopyrite > Pyrite. Pyrrhotite shows irregular shape with around 0.1 to 2mm

size. Pentlandite shows granular and euhedral shape with 0.05 to 0.1㎜ size. Chalcopyrite and Pyrite shows irregular shape with around 0.02 ㎜ size. They are observed closely assembled with each other. Moncheite {(Pt,Pd)(Te,Bi)2} are recognized as a platinum group minerals, it shows irregular shape with around 30 ㎛ and is observed in boundary portion between pentlandite and chalcopyrite.

PS-2 (469.50m) : Disseminated ore in the bronzitite.

Rock name defined under microscope : Olivin websterite

Texture : Holocrystalline equigranular adocumulate.

Cumulus minerals : Large quantities of subhedral orthopyroxene, medium quantities of subhedral clinopyroxene and olivin, these grain size shows average 5 to 1 ㎜.

Intercumulus minerals : Small quantities of phlogopite with 5 to 1 ㎜ grain size, small quantities of anhedral opaque minerals and extremely small quantities of anhedral plagioclase grain size shows average 1 to 0.1 ㎜.

Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite > pentlandite > chalcopyrite > Pyrite. Pyrrhotite shows irregular shape with around 0.1 to 2㎜ size. Pentlandite shows granular and euhedral shape with 0.05 to 0.1㎜ size. Chalcopyrite and Pyrite shows irregular shape with around 0.02 ㎜ size. They are observed closely assembled with each other.

PS-3 (470.50m) : Disseminated ore in the bronzitite.

Rock name defined under microscope : Olivin websterite

Texture : Holocrystalline equigranular orthocumulate to adocumulate.

Cumulus minerals : Large quantities of subhedral orthopyroxene, medium quantities of subhedral clinopyroxene and small quantities of olivin, these grain size shows average 5 to 1 ㎜.

Intercumulus minerals : Small quantities of anhedral olivin with 5 to 1 ㎜ grain size, small quantities of anhedral plagioclase and extremely small quantities of anhedral phlogopite and opaque minerals which grain size shows average 1 to 0.1 ㎜.

Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite = pentlandite > chalcopyrite = Pyrite. Pyrrhotite shows irregular shape with around 0.1 to 2㎜ size. Pentlandite shows granular and euhedral shape with 0.05 to 0.1㎜ size. Chalcopyrite and Pyrite shows irregular shape with around 0.02 ㎜ size. They are observed closely assembled with

each other.

PS-4 (471.50m) : Disseminated ore in the bronzitite.
Rock name defined under microscope : Olivin websterite
Texture : Holocrystalline equigranular adocumulate.
Cumulus minerals : Large quantities of euhedral orthopyroxene, medium quantities of subhedral clinopyroxene and small quantities of olivin, these grain size shows average 5 to 1 mm.
Intercumulus minerals : Small quantities of anhedral olivin with 5 to 1 mm grain size, extremely small quantities of anhedral opaque minerals which grain size shows average 1 to 0.1 mm.
Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite = pentlandite = chalcopyrite > Pyrite. Pyrrhotite shows irregular shape with around 0.1 to 2mm size. Pentlandite shows granular and euhedral shape with 0.1mm size. Chalcopyrite and Pyrite shows irregular shape with around 0.02 mm size. They are observed closely assembled with each other.

PS-5 (472.50m) : Disseminated ore in the bronzitite.
Rock name defined under microscope : Olivin websterite
Texture : Holocrystalline equigranular adocumulate.
Cumulus minerals : Large quantities of euhedral orthopyroxene, medium quantities of clinopyroxene and small quantities of olivin, these grain size shows average 5 to 1 mm.
Intercumulus minerals : Small quantities of anhedral olivin and opaque minerals with 5 to 1 mm grain size, extremely small quantities of anhedral plagioclase which grain size shows average 1 to 0.1 mm.
Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite = pentlandite > chalcopyrite. Pyrrhotite shows irregular shape with around 0.2 to 3mm size. Pentlandite shows granular and euhedral shape with 0.1mm size. Chalcopyrite shows irregular shape with around 0.02 mm size. They are observed closely assembled with each other.

(3) MJZS-8

2 layers of sulphide dissemination zones are observed in this drilling. The upper one situated on the uppermost part (556.00m to 564.00m) of the bronzitite layer, another is situated in the depth of 610.00m to 626.00m. Platinum group elements are not accompanied in the upper sulphide zone, included in the lower sulphide zone. The kind of minerals, grain

size and form of minerals are similar to MJZS-6 and 7. Sulphide content is estimated maximum approximately from 1 to 2%.

The results of chemical analysis show platinum group element content reaching a maximum of 682 ppb and concentrate in the lowest portion(616m-619m) of sulphide disseminated zone.

Results of microscopic observation of ore polished section samples are as follows.

PS-10 (616.50m) : Disseminated ore in the bronzitite.

Rock name defined under microscope : Websterite

Texture : Holocrystalline equigranular orthocumulate to adocumulate.

Cumulus minerals : Large quantities of euhedral orthopyroxene and clinopyroxene, these grain size shows average 5 to 1 mm.

Intercumulus minerals : Small quantities of anhedral olivin, plagioclase and opaque minerals with 1 to 0.1 mm grain size.

Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite > pentlandite > chalcopyrite >Pyrite. Pyrrhotite shows irregular shape with around 0.2 to 4mm size. Pentlandite shows granular and euhedral shape with 0.1mm size. Chalcopyrite and pyrite shows irregular shape with around 0.02 mm size. They are observed closely assembled with each other.

PS-11 (617.50m) : Disseminated ore in the bronzitite.

Rock name defined under microscope : Olivin websterite

Texture : Holocrystalline equigranular adocumulate.

Cumulus minerals : Medium quantities of euhedral orthopyroxene and clinopyroxene, medium to small quantities of euhedral olivin, these grain size shows average 5 to 1 mm.

Intercumulus minerals : Small quantities of anhedral plagioclase and opaque minerals, extremely small quantities of anhedral olivin with 1 to 0.1 mm grain size.

Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite > pentlandite > chalcopyrite =Pyrite. Pyrrhotite shows irregular shape with around 0.1 to 2mm size. Pentlandite shows granular and euhedral shape with 0.1mm size. Chalcopyrite and pyrite shows irregular shape with around 0.02 mm size. They are observed closely assembled with each other.

PS-12 (618.50m) : Disseminated ore in the bronzitite.

Rock name defined under microscope : Olivin websterite

Texture : Holocrystalline equigranular orthocumulate to

adocumulate.

Cumulus minerals : Medium quantities of euhedral to subhedral orthopyroxene and clinopyroxene, medium to small quantities of euhedral olivin, these grain size shows average 5 to 1 mm.

Intercumulus minerals : Small quantities of anhedral plagioclase and opaque minerals, extremely small quantities of anhedral olivin.

Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite = pentlandite = chalcopyrite =Pyrite.

(4) MJZS-9

2 sulphide small vein and dissemination zone are observed in this drill hole. The upper one is situated on the uppermost part of the bronzitite layer and shows about 18m(328.00m-343.00m) width, another is situated near the bottom of hole.

These sulphide mineralization are accompanied with small vein of calcite or sulphide dissemination around the calcite vein, by the results of chemical analysis, almost no platinum group elements are included in these two zone.

(5) MJZS-10

Sulphide dissemination is observed generally in the bronzitite layer, rather strong dissemination is recognized from 370m to around the bottom of hole.

This mineralization is same to MJZS-7 and mainly composed of pyrrhotite, chalcopyrite and accompanies an extremely small quantity of pyrite. Grain size is maximum 2mm, generally less than 1mm and around 0.5mm. these minerals show euhedral usually and irregular anhedral minerals that filled a grain boundary. The sulphide content is estimated maximum to be about 3 to 4%.

The results of chemical analysis show that platinum group elements concentrate in the lowest portion of sulphide disseminated zone and show maximum content 675 ppb.

Results of microscopic observation of ore polished section samples are as follows.

PS-13 (377.50m) : Disseminated ore in the bronzitite.

Rock name defined under microscope : Ortopyroxenite

Texture : Holocrystalline equigranular orthocumulate.

Cumulus minerals : Large quantities of subhedral orthopyroxene and small quantities of clinopyroxene, these grain size shows average 5 to 1 mm.

Intercumulus minerals : Small quantities of anhedral plagioclase and opaque minerals, extremely small quantities of

anhedral olivin and phlogopite with around 1 mm grain size.

Ore minerals : A variety and quantity of ore minerals (opaque minerals) are pyrrhotite = pentlandite > chalcopyrite >Pyrite.

Distribution of ore elements in each hole is shown in Fig.II-1-12. Distribution peak of 3 platinum group elements (platinum, palladium, rhodium) situate approximately at the same place and palladium has comparatively wide distribution to lower direction. Gold has a similar distribution form to platinum group elements and its peak is situated just on the upper part of platinum group elements. Silver doesn't show a characteristic distribution form against gold and platinum group elements. Copper and sulphur have similar distribution from and characteristically decrease their content from where platinum group elements distribute to lower portion. Cobalt and Nickel have similar gentle distribution form and a wide distribution peak is formed in the upper part from where platinum group elements distribute. Chrome has about same content through mineralization zone.

EPMA quantitative analysis was carried out for typical ore samples. Number of samples are 13, platinum group minerals were defined in two samples and analyzed point are total 7 points. Results of this analysis are shown in Table II-1-12.

Main Mineral assemblage in this area is pyrrhotite - pentlandite - chalcopyrite - pyrite.

Moncheite{(Pt,Pd)(Te,Bi)2} and Sperrylite{(Pt,Rh)(As,Sb,S)2} were observed as a platinum group ore minerals in microscopic observation and EPMA analysis. These minerals show irregular shape with 10 30 μ m size and exist in boundary between pentlandite and chalcopyrite or sulphide minerals and cumulus mineral (orthopyroxene).

Previous work points out that merenskyite (PdTe2) and holligworthite (RhAs2) are observed as other platinum group minerals (E.P.O.645) (M.D.Prendergast and A.H.Wilson, 1989).

1-3 Considerations

Exploration work in this area was carried out by UNION CARBIDE (E.P.O.193) and CLUFF (E.P.O.654), mineralization zone of platinum group elements were encountered.

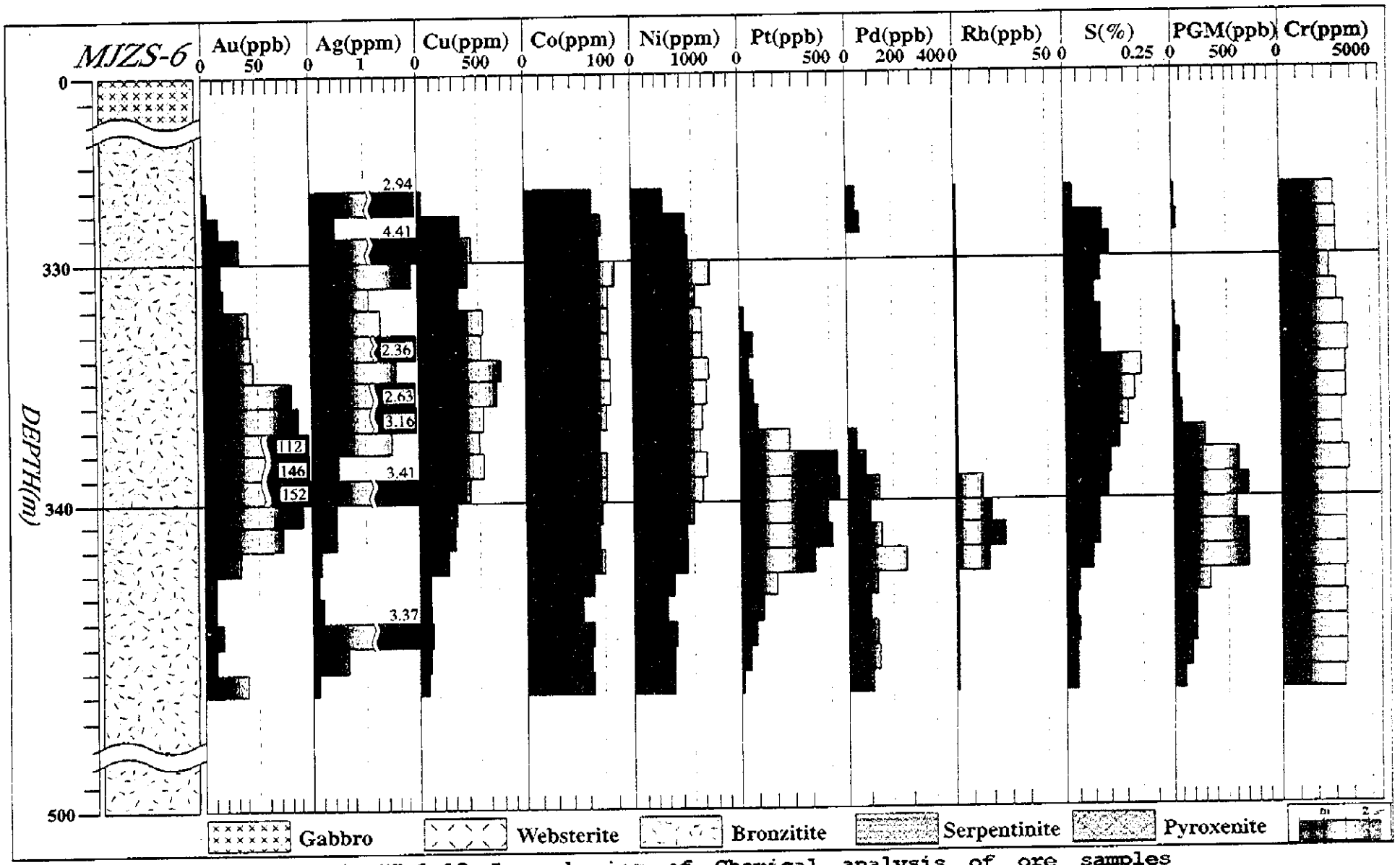

Fig.II-1-12 Log showing of Chemical analysis of ore samples
(MJZS-6)

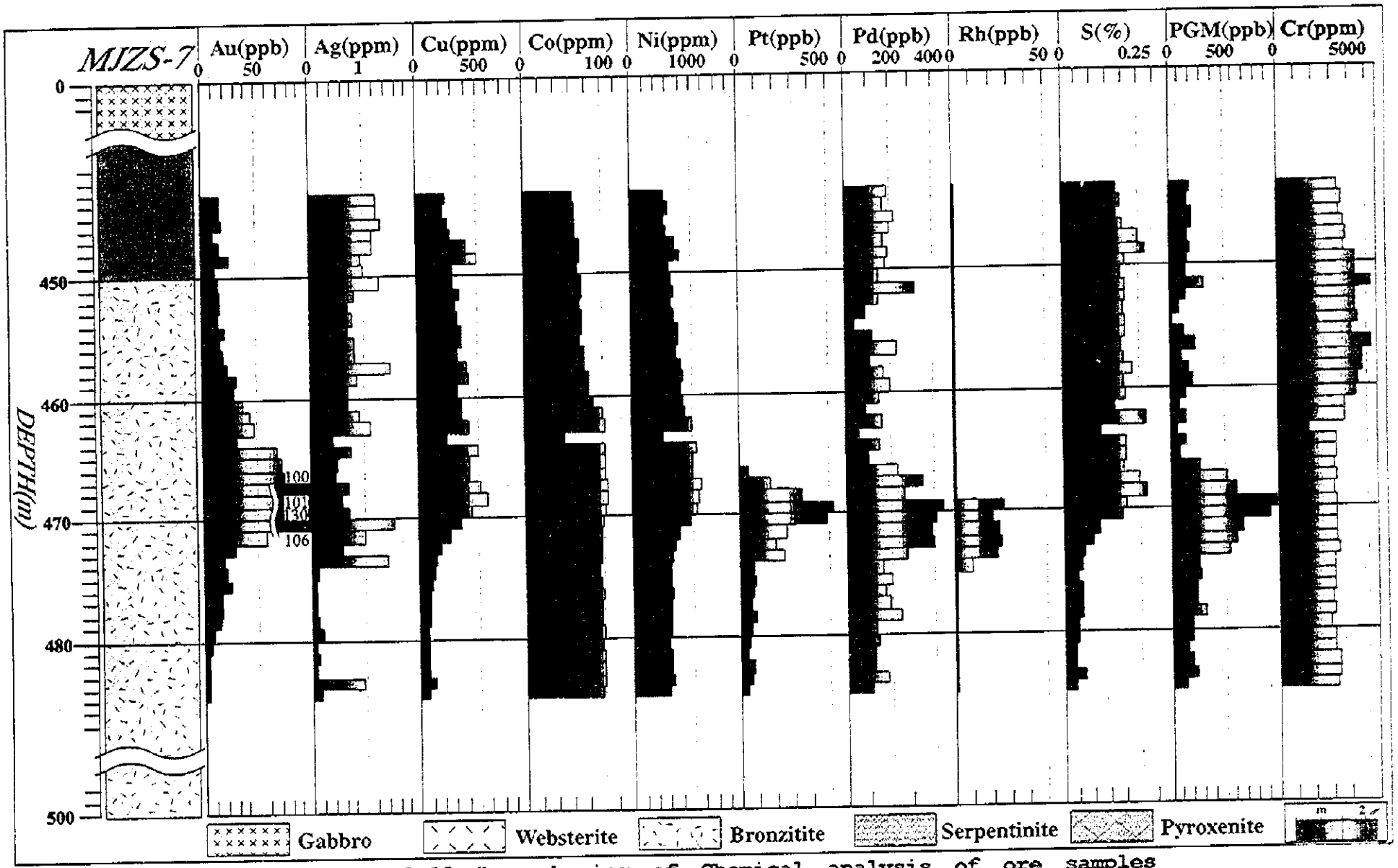

Fig.II-1-12 Log showing of Chemical analysis of ore samples (MJZS-7)

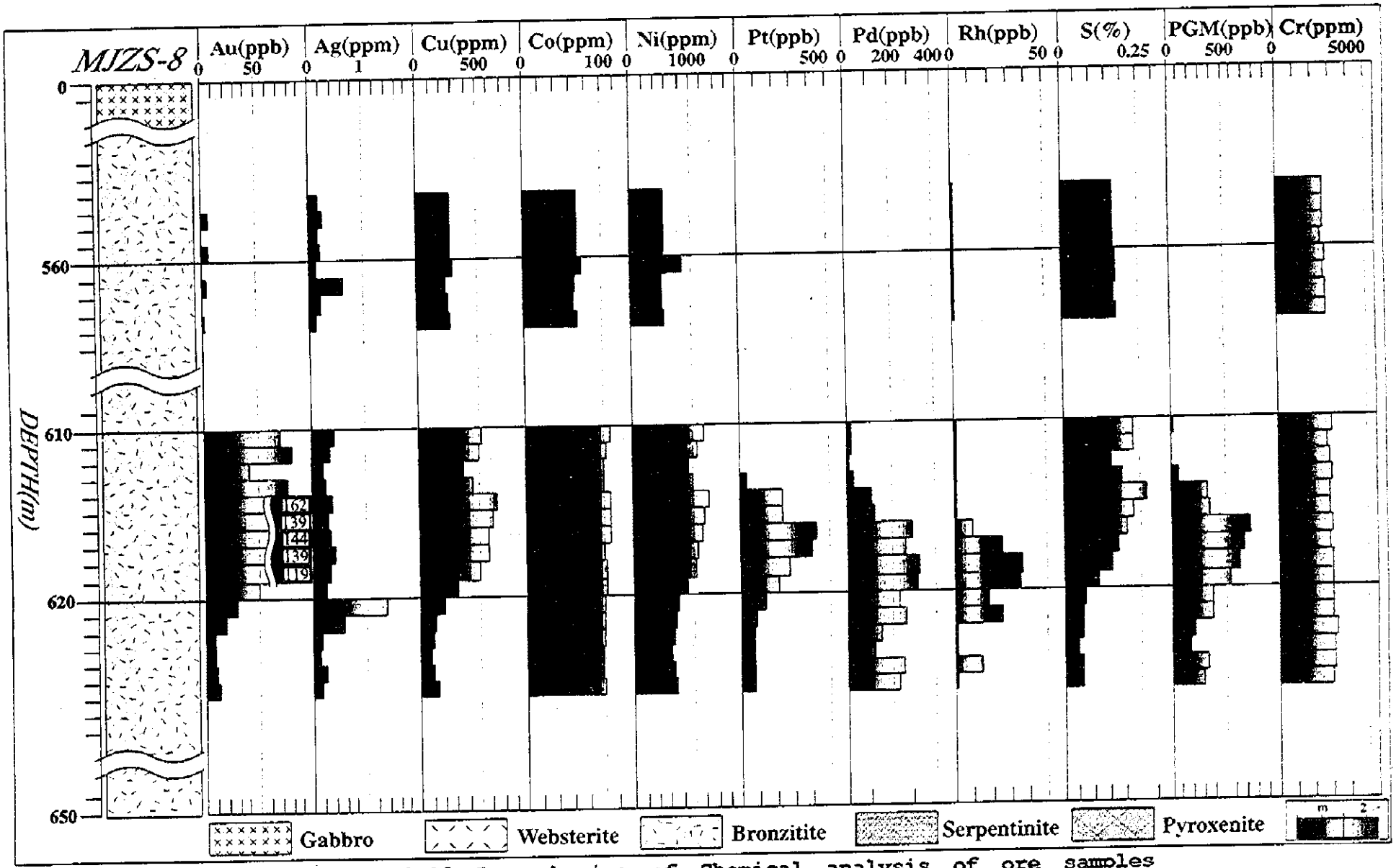

Fig.II-1-12 Log showing of Chemical analysis of ore samples
(MJZS-8)

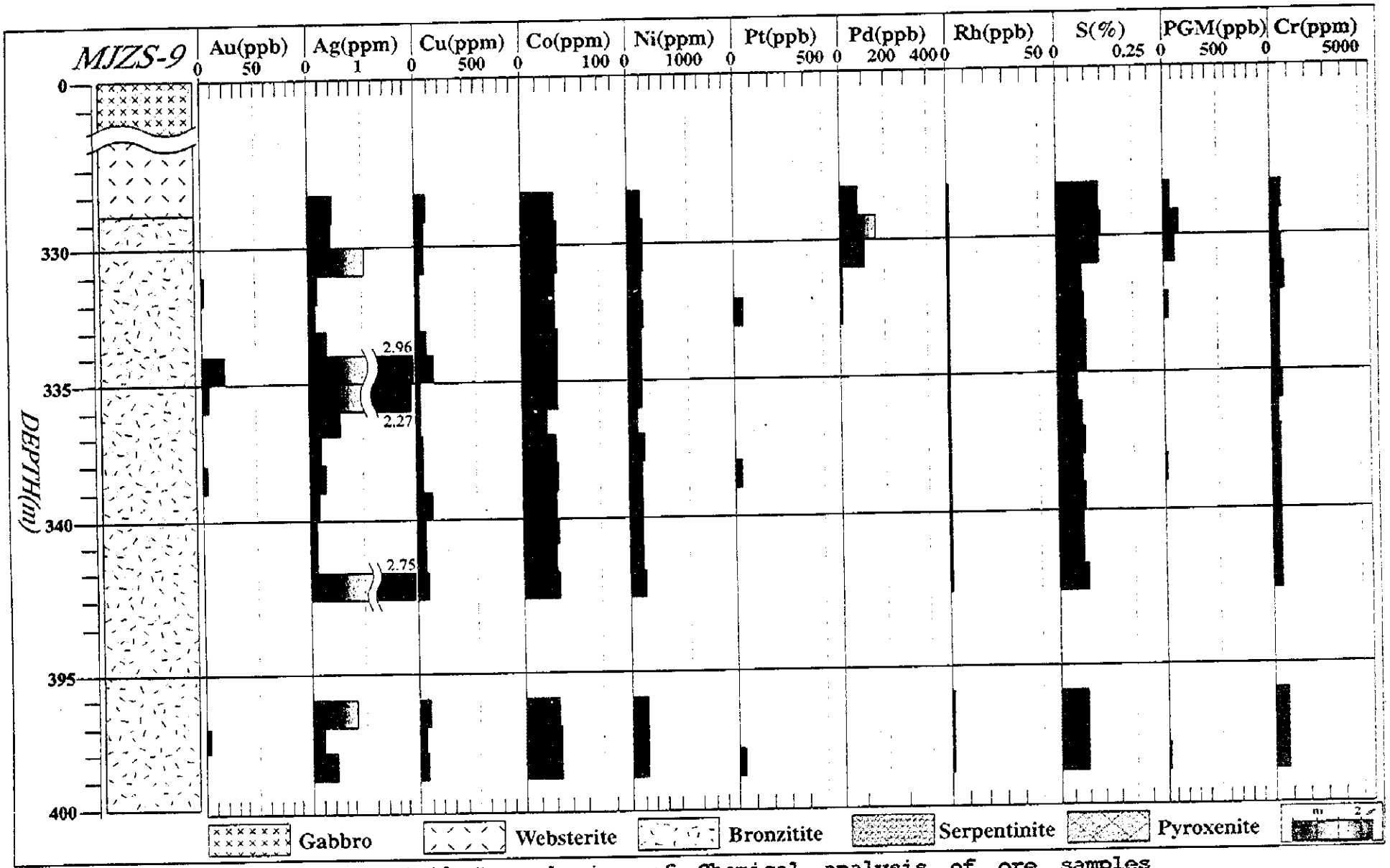

Fig.II-1-12 Log showing of Chemical analysis of ore samples
(MJZS-9)

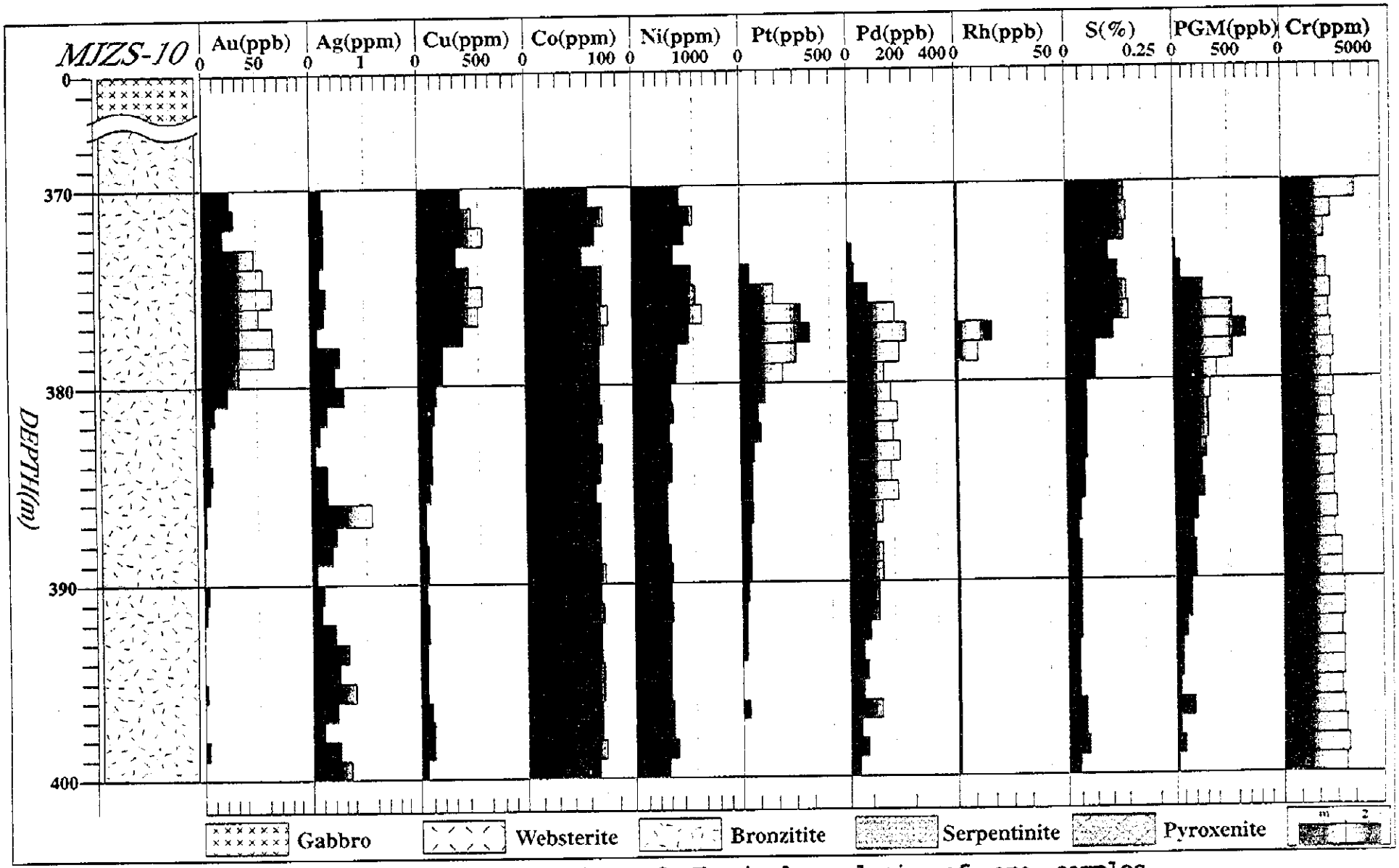

Fig.II-1-12 Log showing of Chemical analysis of ore samples (MJZS-10)

Table II-1-12. Results of EPMA quantitative analysis

Sample No.	Ps-1	Ps-1	Ps-1	Ps-8	Ps-8	Ps-8	Ps-8
mineral name	moncheite	moncheite	moncheite	sperrylite	sperrylite	moncheite	moncheite
size (μm)	29 * 22	29 * 22	29 * 22	9 * 6	9 * 6	15 * 12	15 * 12
weight %							
Pt	30.11	30.50	29.76	57.15	55.21	39.05	38.75
Pd	6.64	6.74	6.76	-	-	-	-
Bi	16.49	16.11	16.38	-	-	24.63	16.13
Te	46.17	45.93	46.87	-	-	35.65	44.32
As	-		-	42.60	43.75	-	-
Total	99.42	99.28	99.77	99.75	98.96	99.33	99.20
atomic ratio							
Pt	0.235	0.238	0.231	0.340	0.326	0.335	0.319
Pd	0.095	0.097	0.096	-	-	-	-
Bi	0.120	0.117	0.118	-	-	0.197	0.124
Te	0.550	0.548	0.555	-	-	0.468	0.557
As	-	-	-	0.660	0.674	-	-
Sum	1.000	1.000	1.000	1.000	1.000	1.000	1.000

-: below detection limits

Analyses conditions

X-ray take-off angle	52.5
Acc. voltage	20 kV
sample current	10 nA on MgO
standard materials	pure metal for Pt, Pd, Bi, Te
	GaAs for As
characteristic X-ray	Pt Mα, Pd Lα, Bi Lα, Te Lα, As Lα

*) PS-1: MJZS-7, 468.50m
PS-8: MJZS-6, 341.50m

Trough Phase II and III survey, Mineralization of PGM was encountered by all drill holes. It is considered that PGM occur in upper most of bronzitite zone and this area may have a continuous mineralization zone similar to other platinum mining areas along the Great Dyke.

Moncheite and Sperrylite are observed as a PGM minerals, they are closely assemblaged with sulphide minerals like a pyrrhotite, Pentlandite, chalcopyrite, etc., and occur especially boundary portion between pentlandite and chalcopyrite or sulphide minerals and cumulus minerals.

Host rock of mineralization is the bronzitite which include large quantities of orthopyroxene in the field, however, it is olivin websterite lithologically because it include some amount of clinopyrixene and olivin under the microscopic observation.

Distribution zone of PGM situate in the lowest portion of sulphide mineralization zone, these concentration peak does not always situate at the same place. Regarding to difference between both concentration zone of sulphides and PGM, the tendency of decreasing of clinopyroxene is recognized in the PGM mineralization zone by microscopic observation however it is difficult to decide its boundary by naked eye.

Through Phase II and III survey, maximum thickness of sulphide mineralization zone is 42m(MJZS-7) but maximum metal content of PGM is about 1 g/t. On the other hand, the Hartley Mine which developed recently published their ore reserves and grading as follows (Introducing Hartley Platinum, Zinbabwe : BHP Joint Venture with Delta Gold N. L.).

Reserves	:	50.9 million tonnes (proven and probable)
Grading	:	2.64 g/t Platinum 1.8 g/t Palladium
		0.21 g/t Rhodium 0.47 g/t Gold
		0.17 % Nickel 0.14 % Copper
Another	:	116 million tonnes of resource has been identified from diamond drilling

Snake Head area is generally low grade of PGM compared with the Hartley Mine, it is considered that the grade of concentration of PGM may be low in this survey area, and in addition, this area is under poor infrastructure, some difficulty may exist to develop a new mine at present.

Previous works are pointing out following things.

Great Dyke has a ship bottom structure in transverse direction, cyclic units of each formation decrease their thickness in both rim portion and increase their thickness in axial portion (Allan H. Wilson and Marian Tredoux 1990). The form and thickness of mineralization zone are about similar at all platinum mining area in Great Dyke (M.D.Prendargast and Reid R. Keays 1989). In the case of rim portion of Great Dyke, MSZ decrease the thickness(2.3m) shows high metal content, and mineralization zone of PGM become about 1.5m in MSZ, in the case of axial potion, MSZ shows comparatively low grade and become more than 20m thickness (M.D.Prendargast and A.H.wilson 1989).

It may be consider that the result of drilling is reflecting the characteristics of Great Dyke as the reason why the metal content is comparatively low.

Chapter 2 Consideration of the survey result

2-1 Controls on mineralization related to the geological structure and characteristics of the mineralization

In this area, upper gabbroic rocks are widely distributed in the center portion of the survey area. Rock facies move to lower peridotite (dunite, harzburgite) passing through multi layered pyroxenite.

The sulphide mineralization which can be observed by the naked eye mainly occur in the P1 layer of the upper most pyroxenite layer. Chromite occurs mainly in the lower pyroxenite layer.

Sulphide minerals in the mineralized zone consist of pyrrhotite, pentlandite, chalcopyrite as essential minerals and pyrite. Moncheite and Sperrylite are observed as a PGM minerals, they are closely assemblaged with sulphide minerals and occur especially boundary portion between pentlandite and chalcopyrite or sulphide minerals and cumulus minerals.

2-2 Results of drilling and mineralization

Trough Phase II and III survey, Mineralization of PGM was encountered by all drill holes. It is considered that PGM occur in upper most of bronzitite zone and this area may have a continuous mineralization zone similar to other platinum mining areas along the Great Dyke.

A summary of the sulphide mineralization zone of each hole which can be observed by the naked eye are as follows.

Hole No.	Depth(m)	Mineralization	Main Sulphides
MJZS-6	327.00~348.00	disseminate	Po, Pn, Cp, Py,
MJZS-7	443.00~485.00	disseminate	Po, Pn, Cp, Py,
MJZS-8	556.00~564.00	disseminate	Po, Pn, Cp, Py,
MJZS-8	610.00~626.00	disseminate	Po, Pn, Cp, Py,
MJZS-9	331.00~343.00	disseminate	Po, Pn, Cp, Py,
MJZS-9	396.00~399.00	disseminate	Po, Pn, Cp, Py,
MJZS-10	370.00~400.50	disseminate	Po, Pn, Cp, Py,

Metal content of the platinum group elements in the sulphide mineralization zone is as follows.

Hole No.	Depth(m)	Pt(ppb)	Pd(ppb)	Rh(ppb)	PGM(ppb)
MJZS-6	338.00~339.00	534	79	--	613
MJZS-6	339.00~340.00	541	145	15	701
MJZS-6	341.00~342.00	511	154	27	692
MJZS-6	342.00~343.00	409	262	18	689
MJZS-7	468.00~469.00	339	266	--	605
MJZS-7	469.00~470.00	514	442	27	983
MJZS-7	470.00~471.00	486	412	20	918

Hole No.	Depth(m)	Pt(ppb)	Pd(ppb)	Rh(ppb)	PGM(ppb)
MJZS-7	471.00~472.00	256	394	24	673
MJZS-7	472.00~473.00	195	398	25	619
MJZS-8	616.00~617.00	423	301	10	734
MJZS-8	617.00~618.00	392	264	26	682
MJZS-8	618.00~619.00	274	332	37	643
MJZS-10	376.00~377.00	329	214	--	543
MJZS-10	377.00~378.00	384	271	19	675
MJZS-10	378.00~379.00	304	238	12	553

2-3 Potential of ore deposits

Snake Head area is generally low grade of PGM compared with the Hartley Mine, it is considered that the grade of concentration of PGM may be low in this survey area, and in addition, this area is under poor infrastructure, some difficulty may exist to develop a new mine at present.

Part III Conclusion and recommendation

Part III Conclusion and recommendation

Chapter 1 Conclusion

Based on the study of results of Phase II survey, A probability of the existence of platinum ore deposit was indicated in the WS area. Drilling exploration of 5 holes was carried out in this area in order to encounter the mineralization zone and find a new ore deposit.

A summary of the drilling are as follows.

MJZS-6 (W, -60degree)	450.00m
MJZS-7 (W, -60degree)	500.00m
MJZS-8 (W, -60degree)	650.00m
MJZS-9 (W, -70degree)	400.00m
MJZS-10(W, -60degree)	400.00m
Total(5 holes)	2,400.00m

A summary of the sulphide mineralization zone of each hole which can be observed by the naked eye are as follows.

Hole No.	Depth(m)	Mineralization	Main Sulphides
MJZS-6	327.00~348.00	disseminate	Po, Pn, Cp, Py,
MJZS-7	443.00~485.00	disseminate	Po, Pn, Cp, Py,
MJZS-8	556.00~564.00	disseminate	Po, Pn, Cp, Py,
MJZS-8	610.00~626.00	disseminate	Po, Pn, Cp, Py,
MJZS-9	331.00~343.00	disseminate	Po, Pn, Cp, Py,
MJZS-9	396.00~399.00	disseminate	Po, Pn, Cp, Py,
MJZS-10	370.00~400.50	disseminate	Po, Pn, Cp, Py,

Maximum metal content of the platinum group elements in the sulphide mineralization zone is as follows.

Hole No.	Depth(m)	Pt(ppb)	Pd(ppb)	Rh(ppb)	PGM(ppb)
MJZS-6	339.00~340.00	541	145	15	701
MJZS-6	341.00~342.00	511	154	27	692
MJZS-7	469.00~470.00	514	442	27	983
MJZS-7	470.00~471.00	486	412	20	918
MJZS-8	616.00~617.00	423	301	10	734
MJZS-8	617.00~618.00	392	264	26	682
MJZS-10	377.00~378.00	384	271	19	675

Through Phase II and III survey, maximum thickness of sulphide mineralization zone is 42m(MJZS-7) but maximum metal content of PGM is about 1 g/t. On the other hand, the Hartley Mine which developed recently published their ore reserves and grading as follows.

Reserves : 50.9 million tonnes (proven and probable)
Grading : 2.64g/t Pt, 1.8g/t Pd. 0.21g/t Rh, 0.47g/t Au,

Snake Head area is generally low grade of PGM compared with the Hartley Mine, it is considered that the grade of concentration of PGM may be low in this survey area, it could not be attained to discover the new ore deposit that can expect to develop at present.

Chapter 2 Recommendations for the future

According to conclusions obtained through the survey results in Phase I to III, the following program will be proposed.

(1) Drilling survey must be carried out in the north-eastern portion of the WN area and the northern portion of the CB area in order to study the probability of the existence of the platinum ore deposit.

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Appendices

A-1 Microphotographs of the thin sections

Abbreviations of mineral names in the plate

Cpx : Clinopyroxene

Opx : Orthopyroxene

Olv : Olivine



Microphotographs of the thin section

Sample No. TS-1 (MJZS-7 448.50 m)

Location : Zimbabwe Snake Head Area

Rock name : Olivin-Websterite

PPL

XPL

Scale 1mm

A-2 Microphotographs of the polished sections

Abbreviations of mineral names in the plate

Po : Pyrrhotite
Pn : Pentlandite
Cp : Chalcopyrite
Py : Pyrite

Microphotographs of the polished section

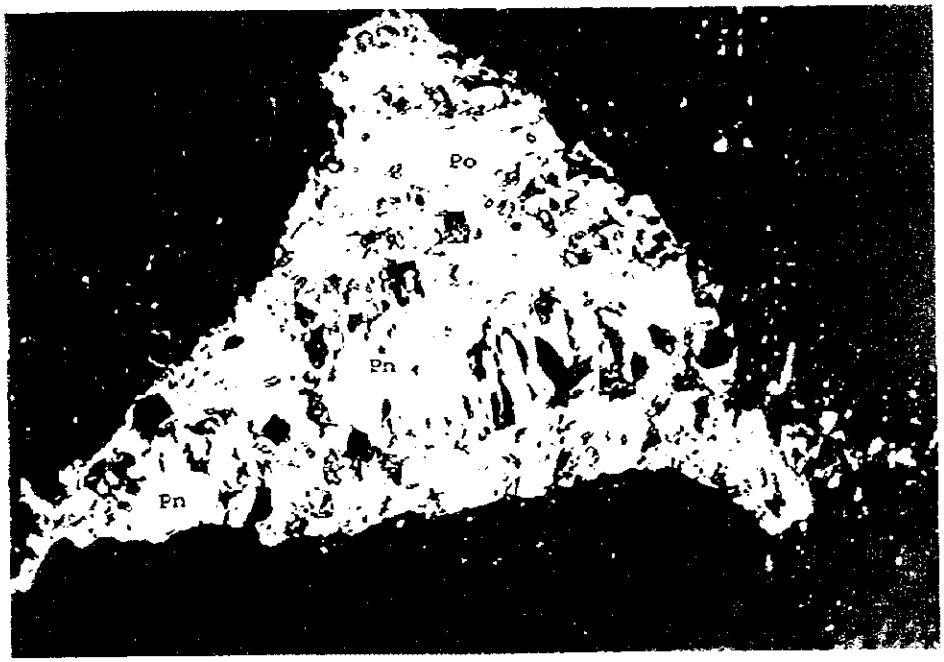
Sample No. PS-1 (MJZS-7 468.50 m)

Location : Zimbabwe Snake Head Area

Rock name : Olivin-Websterite (Sulphide disseminated ore)

PPL

PPL



Scale 0.2mm

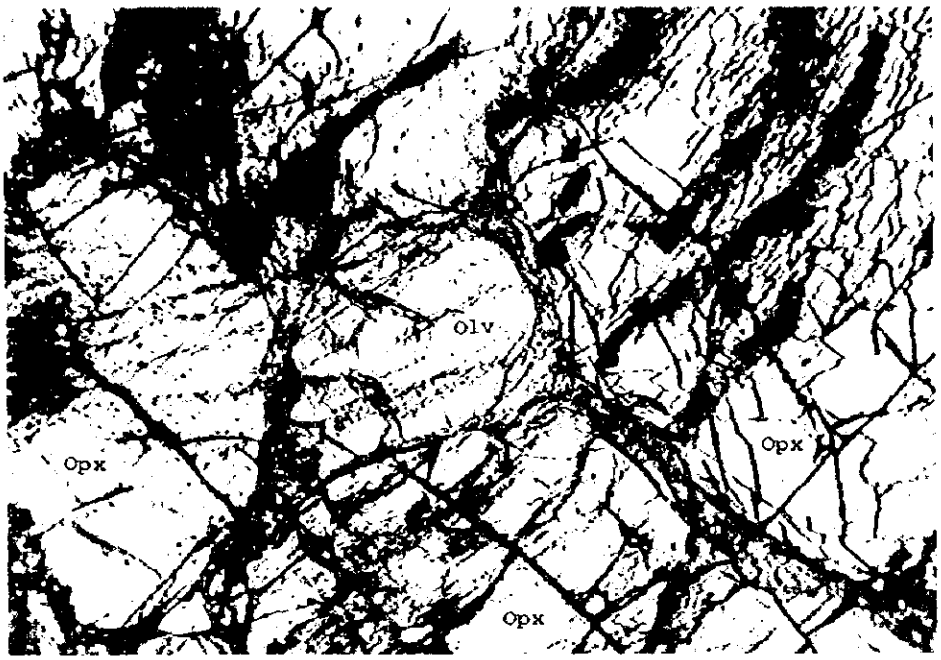
Microphotographs of the polished section

Sample No. PS-1 (MJZS-7 468.50 m)

Location : Zimbabwe Snake Head Area

Rock name : Olivin-Websterite

PPL



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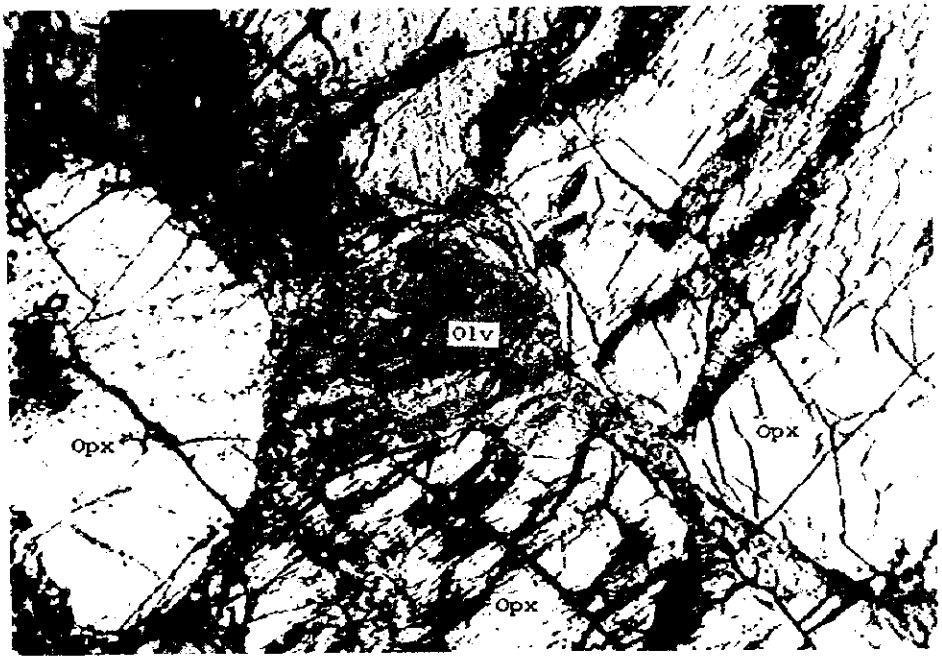


Scale 1mm

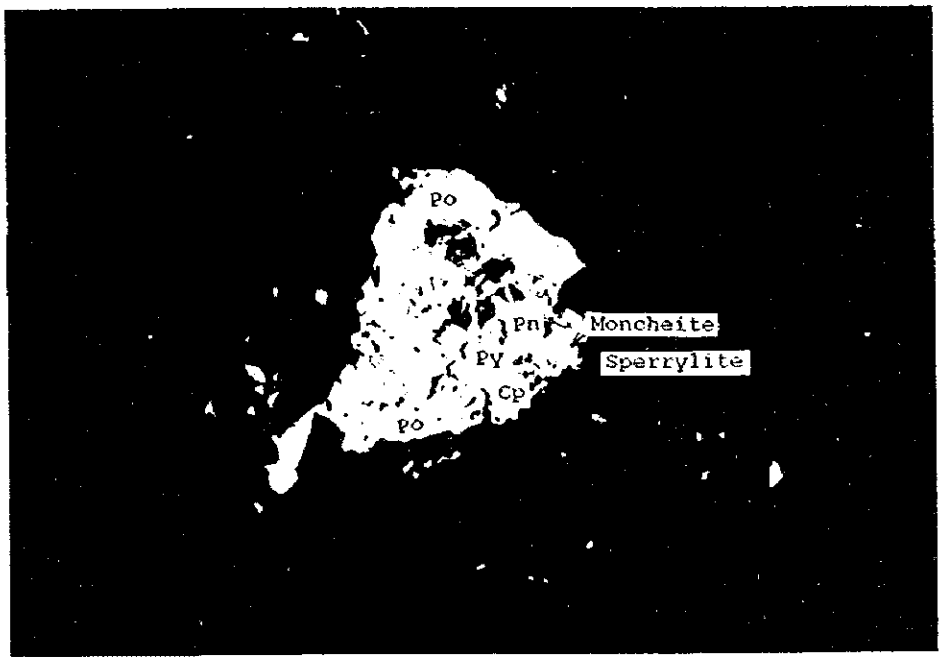
Microphotographs of the polished section

Sample No. PS-8 (MJZS-6 341.50 m)

Location : Zimbabwe Snake Head Area

Rock name : Olivin-Websterite (Sulphide disseminated ore)

PPL



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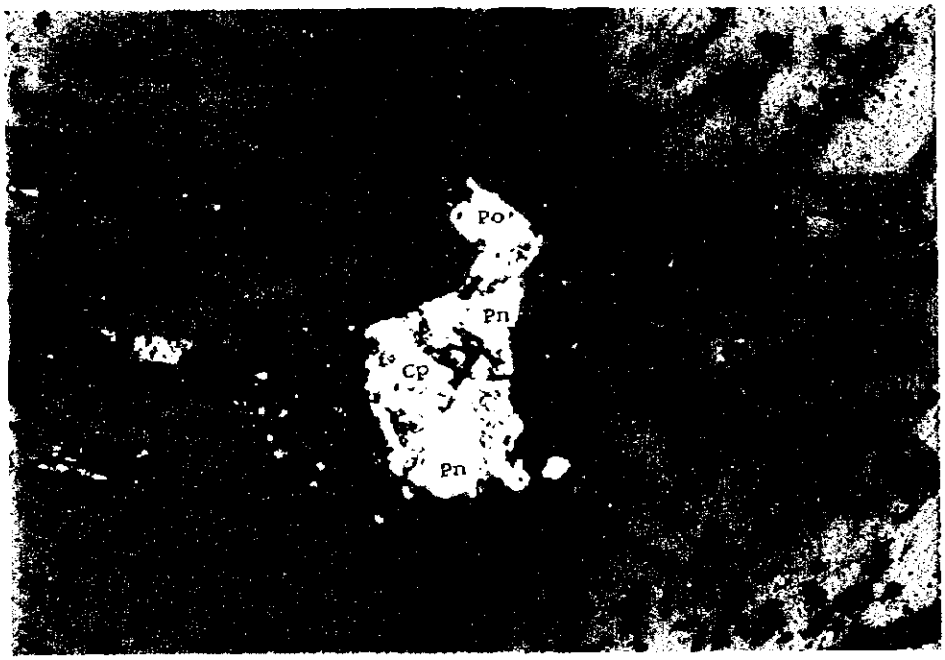


Scale 0.2mm

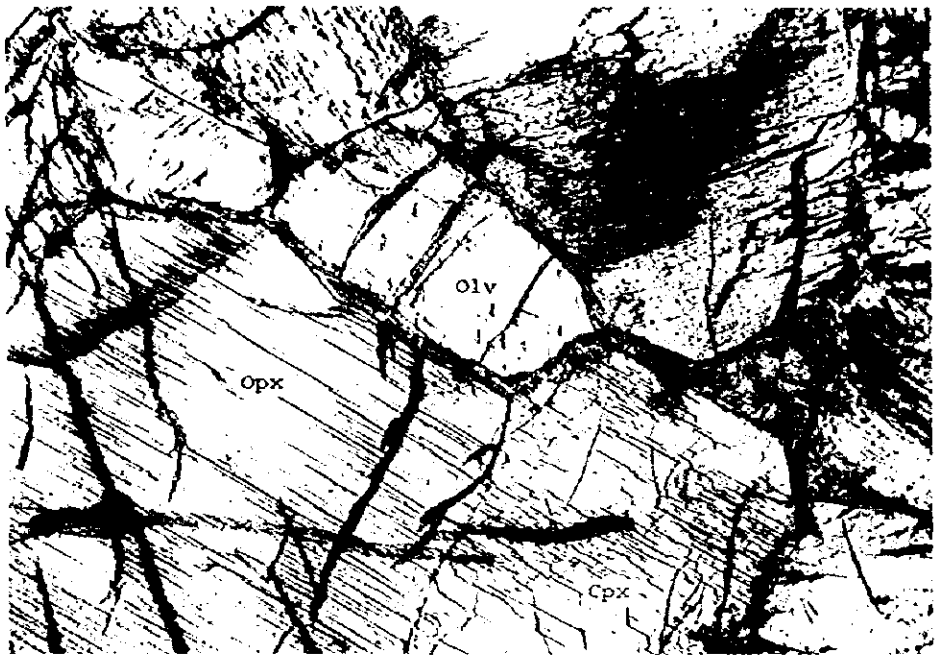
Microphotographs of the polished section

Sample No. PS-8 (MJZS-6 341.50 m)

Location : Zimbabwe Snake Head Area

Rock name : Olivin-Websterite

PPL



XPL

Scale 1mm

A-3 Results of drillings

Table II-1-5 Results of drilling (MJZS-6)

Drilling Period

Class	Working Period				Specifications of Working Days							
	Starting Date ~ Finishing Date				Total Working Days		Day off		True Working Days			
					Days	Shift	Days	Shift	Days	Shift	A-shift	*W
Preparation	97/07/10 ~ 97/07/10				1	1	0	0	1	1	0	5
Drilling	97/07/11 ~ 97/08/01				22	22	0	0	22	22	17	110
Withdraw	97/08/02 ~ 97/08/10				9	9	0	0	9	9	0	45
Total	97/07/10 ~ 97/08/10				32	32	0	0	32	32	17	160

Drilling Depth

Planned Depth	450.00 m	Overburden	m
Additional Depth	0.00 m	Core Length	439.50 m
Total Depth	450.00 m	Recovery	97.67 %

Working Time

Drilling Time	136.0 h	61.5 %	42.6 %
Trip, Core recover, Casing, Reaming, etc.,	30.0 h	13.6 %	9.4 %
Fishing Job	40.0 h	18.1 %	12.5 %
Water supply	15.0 h	6.8 %	4.7 %
Others	0.0 h	0.0 %	0.0 %
Sub-Total	221.0 h	100.0 %	69.3 %

Moved Out and In

Rig Up	26.0 h		8.2 %
Tear Down	72.0 h		22.6 %
Total	319.0 h		100.0 %

Casing

Casing Depth and Size	Casing Ratio	Casing Pipe Recovery	
(m)	(%)	(m)	(%)
86 mm 20.50 m	4.6	17.00	82.9
0 mm 0.00 m	0.0	0.00	

Core Recovery per each 100m

Depth (m)	Core Length and Core Recovery			Cumulative Total
0.00 ~ 38.30	27.80 m	72.68 %		72.58 %
38.30 ~ 127.80	89.50 m	100.00 %		91.78 %
127.80 ~ 229.80	102.00 m	100.00 %		95.43 %
229.80 ~ 313.80	84.00 m	100.00 %		96.65 %
313.80 ~ 415.80	102.00 m	100.00 %		97.47 %
415.80 ~ 450.00	34.20 m	100.00 %		97.67 %

Drilling Efficiency

T-Depth(m)/T-Working Days	14.06	m/Day
T-Depth(m)/T-Working Shifts	14.06	m/Shift
T-Depth(m)/True-Working Days	14.06	m/Day
T-Depth(m)/True-Working Shifts	14.06	m/Shift
T-Depth(m)/T-Drilling Days	20.45	m/Day
T-Depth(m)/T-Drilling Shifts	20.45	m/Shift
T-Depth(m)/True-Drilling Days	20.45	m/Day
T-Depth(m)/True-Drilling Shifts	20.45	m/Shift
T-Depth(m)/True-Drilling Shifts	26.47	m/Shift
T-Depth(m)/T-Workers	2.81	m/Worker
Actual Drilling Workers/T-Depth(m)	0.19	Worker/m

Table II-1-6 Results of drilling (MJZS-7)

Drilling Period

Class	Working Period				Specifications of Working Days							
	Starting Date ~ Finishing Date				Total Working Days		Day off		True Working Days			
					Days	Shift	Days	Shift	Days	Shift	A-shift	*W
Preparation	97/06/18 ~ 97/06/20				3	3	0	0	3	3	0	15
Drilling	97/06/21 ~ 97/07/15				25	25	1	1	24	24	24	120
Withdrew	97/07/16 ~ 97/07/20				5	5	0	0	5	5	0	25
Total	97/06/18 ~ 97/07/20				33	33	1	1	32	32	24	160

Drilling Depth

Planned Depth	500.00 m	Overburden	m
Additional Depth	0.00 m	Core Length	492.00 m
Total Depth	500.00 m	Recovery	98.40 %

Working Time

Drilling Time	184.0 h	59.9 %	50.7 %
Trip, Core recover, Casing, Reaming, etc.,	47.0 h	15.3 %	12.9 %
Fishing Job	12.0 h	3.9 %	3.3 %
Water supply	24.0 h	7.8 %	6.6 %
Others	40.0 h	13.0 %	11.0 %
Sub-Total	307.0 h	100.0 %	84.6 %

Moved Out and In

Rig Up	24.0 h		6.6 %
Tear Down	32.0 h		8.8 %
Total	363.0 h		100.0 %

Casing

Casing Depth and Size	Casing Ratio	Casing Pipe Recovery	
(m)	(%)	(m)	(%)
86 mm 18.50 m	3.7	15.00	81.1
0 mm 0.00 m	0.0	0.00	

Core Recovery per each 100m

Depth (m)	Core Length and Core Recovery			Cumulative Total
0.00 ~ 18.50	10.50 m	56.76 %		56.76 %
18.50 ~ 110.00	91.50 m	100.00 %		92.73 %
110.00 ~ 200.00	90.00 m	100.00 %		95.00 %
200.00 ~ 305.00	105.00 m	100.00 %		97.38 %
305.00 ~ 404.00	99.00 m	100.00 %		98.02 %
404.00 ~ 500.00	96.00 m	100.00 %		98.40 %

Drilling Efficiency

T-Depth(m)/T-Working Days	15.15	m/Day
T-Depth(m)/T-Working Shifts	15.15	m/Shift
T-Depth(m)/True-Working Days	15.63	m/Day
T-Depth(m)/True-Working Shifts	15.63	m/Shift
T-Depth(m)/T-Drilling Days	20.00	m/Day
T-Depth(m)/T-Drilling Shifts	20.00	m/Shift
T-Depth(m)/True-Drilling Days	20.83	m/Day
T-Depth(m)/True-Drilling Shifts	20.83	m/Shift
T-Depth(m)/True-Drilling Shifts	20.83	m/Shift
T-Depth(m)/T-Workers	3.13	m/Worker
Actual Drilling Workers/T-Depth(m)	0.24	Worker/m

Table II-1-7 Results of drilling (MJZS-8)

Drilling Period

Class	Working Period: Starting Date ~ Finishing Date
Preparation	97/06/18 ~ 97/06/19
Drilling	97/06/20 ~ 97/07/22
Withdraw	97/07/23 ~ 97/07/27
Total	97/06/18 ~ 97/07/27

Drilling Depth

Planned Depth	650.00 m	Overburden	m
Additional Depth	0.00 m	Core Length	648.60 m
Total Depth	650.00 m	Recovery	99.78 %

Working Time

Drilling Time	208.0 h	61.2 %	53.6 %
Trip, Core recover, Casing, Reaming, etc.,	52.0 h	15.3 %	13.4 %
Fishing Job	40.0 h	11.8 %	10.3 %
Water supply	0.0 h	0.0 %	0.0 %
Others	40.0 h	11.8 %	10.3 %
Sub-Total	340.0 h	100.0 %	87.6 %
Moved Out and In			
Rig Up	16.0 h		4.1 %
Tear Down	32.0 h		8.2 %
Total	388.0 h		100.0 %

Casing

Casing Depth and Size	Casing Ratio	Casing Pipe Recovery	
(m)	(%)	(m)	(%)
86 mm 17.70 m	2.7	15.60	84.7
0 mm 0.00 m	0.0	0.00	

Specifications of Working Days

Total Working Days		Day off		True Working Days			
Days	Shift	Days	Shift	Days	Shift	A-shift	*W
2	2	0	0	2	2	0	10
33	33	1	1	32	32	27	160
5	5	0	0	5	5	0	25
40	40	1	1	39	39	27	195

Core Recovery par each 100m

Depth (m)	Core Length and Core Recovery		Cumulative Total
0.00 ~ 17.70	16.30 m	92.09 %	92.09 %
17.70 ~ 112.20	94.50 m	100.00 %	98.75 %
112.20 ~ 229.20	117.00 m	100.00 %	99.39 %
229.20 ~ 319.20	90.00 m	100.00 %	99.56 %
319.20 ~ 412.20	93.00 m	100.00 %	99.66 %
412.20 ~ 499.20	87.00 m	100.00 %	99.72 %
499.20 ~ 650.00	150.80 m	100.00 %	99.78 %

Drilling Efficiency

T-Depth(m)/T-Working Days	16.25	m/Day
T-Depth(m)/T-Working Shifts	16.25	m/Shift
T-Depth(m)/True-Working Days	16.67	m/Day
T-Depth(m)/True-Working Shifts	16.67	m/Shift
T-Depth(m)/T-Drilling Days	19.70	m/Day
T-Depth(m)/T-Drilling Shifts	19.70	m/Shift
T-Depth(m)/True-Drilling Days	20.31	m/Day
T-Depth(m)/True-Drilling Shifts	20.31	m/Shift
T-Depth(m)/True-Drilling Shifts	24.07	m/Shift
T-Depth(m)/T-Workers	3.33	m/Worker
Actual Drilling Workers/T-Depth(m)	0.21	Worker/m

Table II-1-8 Results of drilling (MJZS-9)

Drilling Period

Class	Working Period: Starting Date ~ Finishing Date
Preparation	97/06/18 ~ 97/06/19
Drilling	97/06/20 ~ 97/07/07
Withdraw	97/07/08 ~ 97/07/09
Total	97/06/18 ~ 97/07/09

Drilling Depth

Planned Depth	400.00 m	Overburden	m
Additional Depth	0.00 m	Core Length	392.20 m
Total Depth	400.00 m	Recovery	98.05 %

Working Time

Drilling Time	114.0 h	57.9 %	47.5 %
Trip, Core recover, Casing, Reaming, etc.,	27.0 h	13.7 %	11.3 %
Fishing Job	16.0 h	8.1 %	6.7 %
Water supply	0.0 h	0.0 %	0.0 %
Others	40.0 h	20.3 %	16.7 %
Sub-Total	197.0 h	100.0 %	82.1 %
Moved Out and In			
Rig Up	16.0 h		6.7 %
Tear Down	27.0 h		11.3 %
Total	240.0 h		100.0 %

Casing

Casing Depth and Size	Casing Ratio	Casing Pipe Recovery	
(m)	(%)	(m)	(%)
86 mm 20.50 m	5.1	17.00	82.9
0 mm 0.00 m	0.0	0.00	

Specifications of Working Days

Total Working Days		Day off		True Working Days			
Days	Shift	Days	Shift	Days	Shift	A-shift	*W
2	2	0	0	2	2	0	10
18	18	1	1	17	17	15	85
2	2	0	0	2	2	0	10
22	22	1	1	21	21	15	105

Core Recovery par each 100m

Depth (m)	Core Length and Core Recovery		Cumulative Total
0.00 ~ 34.50	26.70 m	77.39 %	77.39 %
34.50 ~ 121.70	87.20 m	100.00 %	93.59 %
121.70 ~ 226.70	105.00 m	100.00 %	96.56 %
226.70 ~ 323.00	96.30 m	100.00 %	97.59 %
323.00 ~ 400.00	77.00 m	100.00 %	98.05 %

Drilling Efficiency

T-Depth(m)/T-Working Days	18.18	m/Day
T-Depth(m)/T-Working Shifts	18.18	m/Shift
T-Depth(m)/True-Working Days	19.05	m/Day
T-Depth(m)/True-Working Shifts	19.05	m/Shift
T-Depth(m)/T-Drilling Days	22.22	m/Day
T-Depth(m)/T-Drilling Shifts	22.22	m/Shift
T-Depth(m)/True-Drilling Days	23.53	m/Day
T-Depth(m)/True-Drilling Shifts	23.53	m/Shift
T-Depth(m)/True-Drilling Shifts	26.67	m/Shift
T-Depth(m)/T-Workers	3.81	m/Worker
Actual Drilling Workers/T-Depth(m)	0.19	Worker/m

Table II-1-9 Results Of drilling (MJZS-10)

Drilling Period

Class	Working Period	
	Starting Date	~ Finishing Date
Preparation	97/07/27	~ 97/08/01
Drilling	97/08/02	~ 97/08/12
Withdraw	97/08/13	~ 97/08/20
Total	97/07/27	~ 97/08/20

Drilling Depth			
Planned Depth	400.00 m	Overburden	m
Additional Depth	0.00 m	Core Length	390.90 m
Total Depth	400.00 m	Recovery	97.73 %

Working Time			
Drilling Time	88.0 h	54.0 %	41.7 %
Trip, Core recover, Casing, Reeming, etc.,	24.0 h	14.7 %	11.4 %
Fishing Job	0.0 h	0.0 %	0.0 %
Water supply	11.0 h	6.7 %	5.2 %
Others	40.0 h	24.5 %	19.0 %
Sub-Total	163.0 h	100.0 %	77.3 %
Moved Out and In			
Rig Up	16.0 h		7.6 %
Tear Down	32.0 h		15.2 %
Total	211.0 h		100.0 %

Casing			
Casing Depth and Size	Casing Ratio	Casing Pipe Recovery	
(m)	(%)	(m)	(%)
86 mm 29.00 m	7.3	26.00	89.7
0 mm 0.00 m	0.0	0.00	

Specifications of Working Days

Total Working Days		Day off		True Working Days			
Days	Shift	Days	Shift	Days	Shift	A-shift	*%
6	6	0	0	6	6	0	30
11	11	0	0	11	11	11	55
8	8	0	0	8	8	0	40
25	25	0	0	25	25	11	125

Core Recovery per each 100m

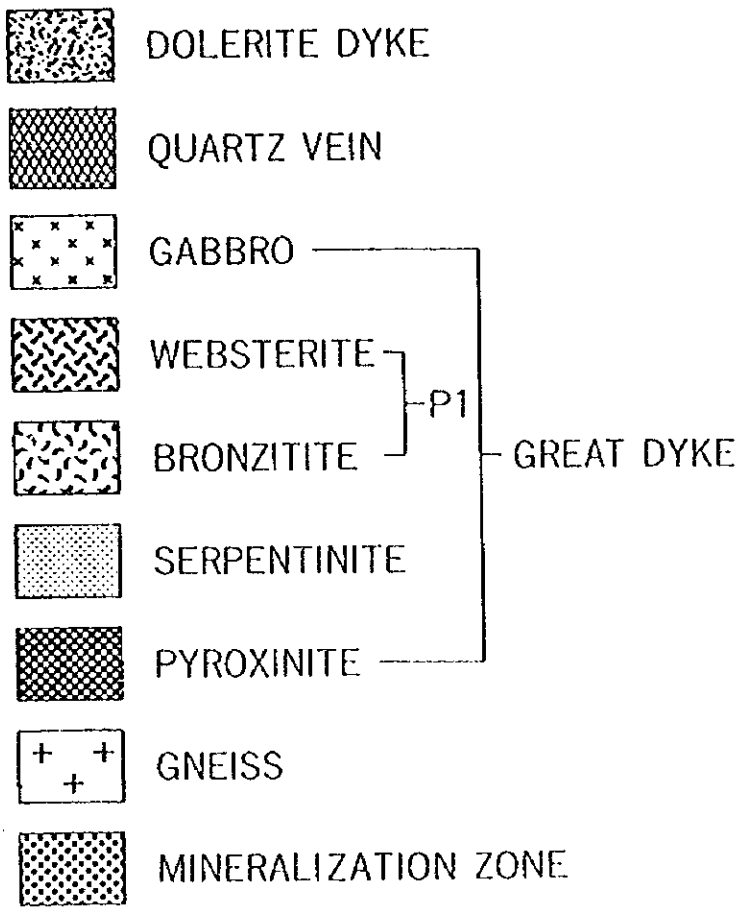
Depth (m)			Core Length and Core Recovery		Cumulative Total	
0.00	~ 29.10		20.00 m	68.73 %	68.73 %	
29.10	~ 118.60		89.50 m	100.00 %	92.33 %	
118.60	~ 211.60		93.00 m	100.00 %	95.70 %	
211.60	~ 292.60		81.00 m	100.00 %	96.89 %	
292.60	~ 400.00		107.40 m	100.00 %	97.73 %	

Drilling Efficiency

T-Depth(m)/T-Working Days	16.00	m/Day
T-Depth(m)/T-Working Shifts	16.00	m/Shift
T-Depth(m)/True-Working Days	16.00	m/Day
T-Depth(m)/True-Working Shifts	16.00	m/Shift
T-Depth(m)/T-Drilling Days	36.36	m/Day
T-Depth(m)/T-Drilling Shifts	36.36	m/Shift
T-Depth(m)/True-Drilling Days	36.36	m/Day
T-Depth(m)/True-Drilling Shifts	36.36	m/Shift
T-Depth(m)/True-Drilling Shifts	36.36	m/Shift
T-Depth(m)/T-Workers	3.20	m/Worker
Actual Drilling Workers/T-Depth(m)	0.14	Worker/m

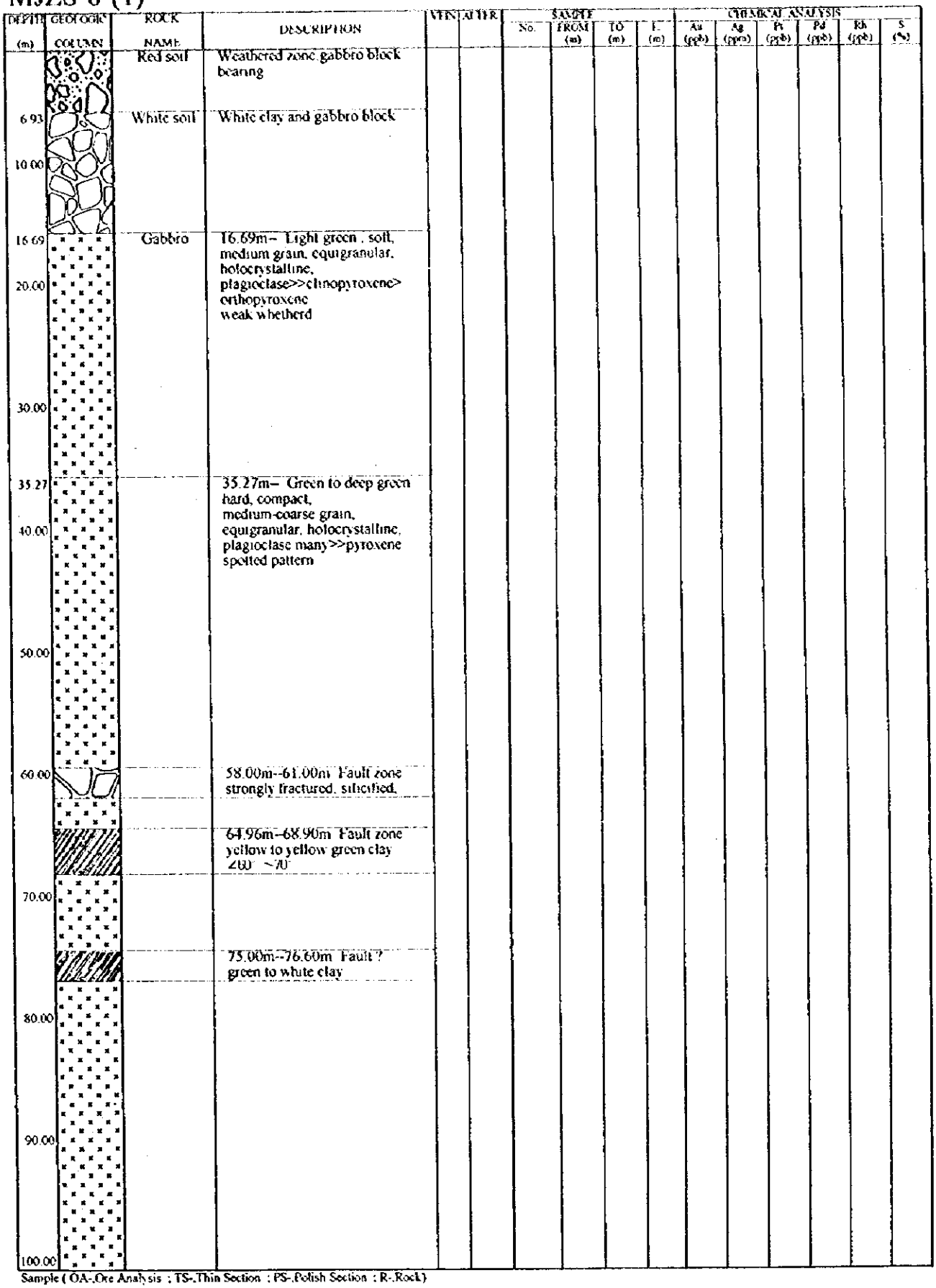
A-4 Drilling columns

Index



MJZS-6-(1)

0m-100m



Sample (OA-.Ore Analysis ; TS-.Thin Section ; PS-.Polish Section ; R-.Rock)

Fig.II-1-2 Drilling column (MJZS-6)(1)

MJZS-6-(2)

100m-200m

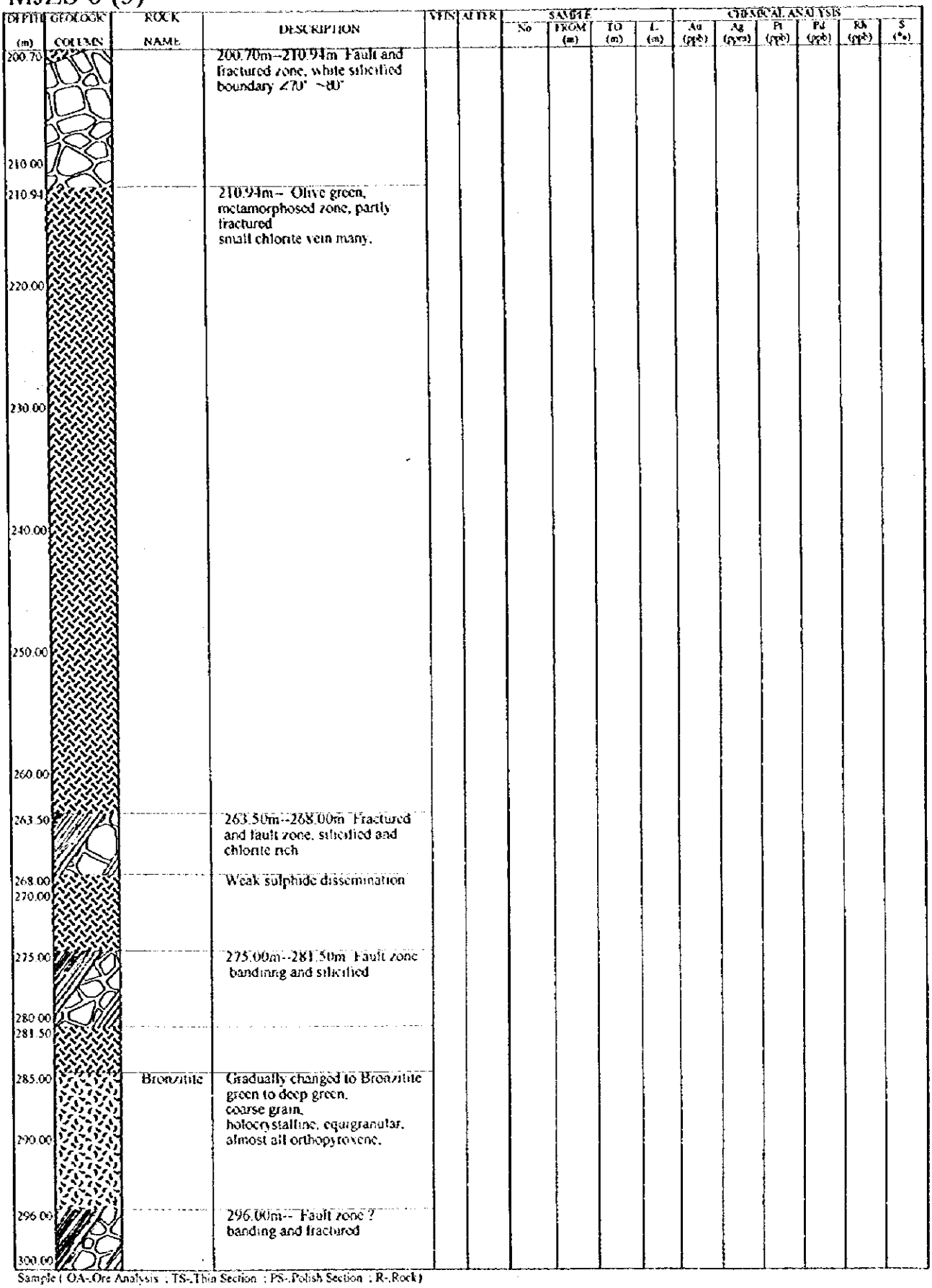
DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	VEIN	ALTER	SAMPLE No.	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE L (m)	CHEMICAL ANALYSIS Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
110.00		Gabbro	Green to deep green, medium grain, equigranular, holocrystalline texture, plagioclase>clinopyroxene> orthopyroxene,												
120.00															
130.00															
140.00															
150.00															
156.10		Websterite	156.10m-- Green and purple spot, rather fine grain, clinopyroxene and orthopyroxene												
160.00															
170.00			170.20m-- Weak calcite and chlorite veinlet,												
180.00															
190.00			191.40m-- Calcite vein and network 195.30m-- Calcite chlorite vein W=5cm, ∠70°												
200.00			197.00m-- Olive green, metamorphosed												

Sample (OA:Ore Analysis ; TS:Thin Section ; PS:Polish Section ; R:Rock)

Fig.II-1-2 Drilling column (MJZS-6) (2)

MJZS-6-(3)

200m-300m



Sample (OA-Ore Analysis , TS-Thin Section , PS-Polish Section , R-Rock)

Fig.II-1-2 Drilling column (MJZS-6) (3)

MJZS-6-(4)

300m-400m

DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	VEIN	ALTER.	SAMPLE No.	FROM (m)	TO (m)	L. (m)	CHEMICAL ANALYSIS Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
		Bronzitite	Green to deep green color, coarse-medium grain, orthopyroxene>>clinopyroxene,												
307.50		Serpentinite	Gray, fine grain, soapy, banded serpentine, olivin and weak pyroxene												
310.00															
315.00			315.00m-- Black, compact,												
316.84			316.84m--318.30m Chromitite												
318.30			318.30m-- White to black, soapy banding and mottled color,												
320.00															
322.80		Bronzitite	322.80m-- Gray and green, mainly orthopyroxene and weak clinopyroxene			TS- 4	334.50								
			323m--340m sulphide dissemunate			OA- 1	327.00	328.00	1.00	3	2.94	< 10	39	< 10	0.06
						OA- 2	328.00	329.00	1.00	14	0.46	< 10	57	< 10	0.13
						OA- 3	329.00	330.00	1.00	34	4.41	< 10	< 10	< 10	0.15
330.00						OA- 4	330.00	331.00	1.00	17	1.86	< 10	< 10	< 10	0.12
						OA- 5	331.00	332.00	1.00	18	1.08	< 10	< 10	< 10	0.10
						OA- 6	332.00	333.00	1.00	42	1.29	21	< 10	< 10	0.12
						OA- 7	333.00	334.00	1.00	43	2.36	67	< 10	< 10	0.12
						OA- 8	334.00	335.00	1.00	45	1.56	44	< 10	< 10	0.25
						OA- 9	335.00	336.00	1.00	82	2.63	76	< 10	< 10	0.23
						OA- 10	336.00	337.00	1.00	88	3.16	100	< 10	< 10	0.21
						OA- 11	337.00	338.00	1.00	112	1.90	272	34	< 10	0.18
340.00						OA- 12	338.00	339.00	1.00	146	0.49	534	79	< 10	0.15
						OA- 13	339.00	340.00	1.00	152	3.41	541	145	15	0.14
						OA- 14	340.00	341.00	1.00	91	0.43	479	98	19	0.11
						OA- 15	341.00	342.00	1.00	72	0.43	511	154	27	0.11
						OA- 16	342.00	343.00	1.00	34	0.16	409	262	18	0.08
						OA- 17	343.00	344.00	1.00	10	0.11	190	136	< 10	0.05
						OA- 18	344.00	345.00	1.00	11	0.21	120	103	< 10	0.04
						OA- 19	345.00	346.00	1.00	16	3.37	87	127	< 10	0.05
350.00						OA- 20	346.00	347.00	1.00	11	0.58	41	139	< 10	0.04
						OA- 21	347.00	348.00	1.00	39	0.11	13	108	< 10	0.04
						PS- 6	338.50								
						PS- 7	339.50								
						PS- 8	341.50								
						PS- 9	342.50								
360.00															
370.00															
371.34		Dunite	371.34m--374.00m Black and white, fine grain, banding,												
374.00		Bronzitite	374.00m-- Gray, coarse grain, weak olivin bearing,												
380.00															
390.00															
392.00			392.00m--395.50m Pale green to white, chlorite ans serpentine many, 260° ±												
395.50															
400.00															

Sample (OA:Ore Analysis ; TS:Thin Section ; PS:Polish Section ; R:Rock)

Fig.II-1-2 Drilling column (MJZS-6)(4)

MJZS-6-(5)

400m-500m

DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	GEN	ALTER	SAMPLE No	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE L. (m)	CHEMICAL ANALYSIS Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
		Bronzitite													
404.00		Serpentinite	404.00m-- White to gray, soapy soft, white and gray banding, mainly serpentine and olivin.												
410.00															
420.00															
423.00		Dunite	423.00m--426.30m Black and soft, mottled pattern, mainly olivin.												
426.30		Serpentinite	426.30m-- White and black, banding, soft, soapy.												
430.00															
436.00		Bronzitite	436.00m-- Deep green, coarse grain, almost all orthopyroxene, holocrystalline, equigranular.												
440.00															
450.00			450.00m STOP												
460.00															
470.00															
480.00															
490.00															
500.00															

Sample (OA:Ore Analysis ; TS:Thin Section ; PS:Polish Section ; R:Rock)

Fig.II-1-2 Drilling column (MJZS-6) (5)

MJZS-7-(1)

0m-100m

DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	VEIN	ALTER	SAMPLE No	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE L (m)	CHEMICAL ANALYSIS Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
		Red soil	Weathered zone												
3.00		Green soil													
9.00		Gabbro	Gabbro block and green clay weathered and crushed zone												
10.00															
18.00		Gabbro	18.00m-- Green to deep green medium grain, equigranular, holocrystalline, hard, compact, plagioclase>>clinopyroxene> orthopyroxene white spot (plagioclase) many												
20.00															
30.00															
40.00															
50.00															
60.00															
70.00															
80.00															
90.00			91.36m Calcite vein W=5cm 20°												
100.00															

Sample (OA-Ore Analysis ; TS-Thin Section ; PS-Polish Section ; R-Rock)

Fig.II-1-3 Drilling column (MJZS-7) (1)

MJZS-7-(2)

100m-200m

DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	VEIN	ALTER.	SAMPLE No.	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE L. (m)	CHEMICAL ANALYSIS Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
110.00		Gabbro	Green to deep green, medium grain, equigranular, holocrystalline texture, plagioclase>clinopyroxene> orthopyroxene,												
120.00			Gradually clinopyroxene boome many												
130.00			133.60m Chlorite vein,												
140.00															
150.00															
160.00															
170.00															
180.00															
190.00															
200.00															

Sample (OA:Ore Analysis : TS:Thin Section : PS:Polish Section : R:Rock)

Fig.II-1-3 Drilling column (MJZS-7) (2)

MJZS-7-(3)

200m-300m

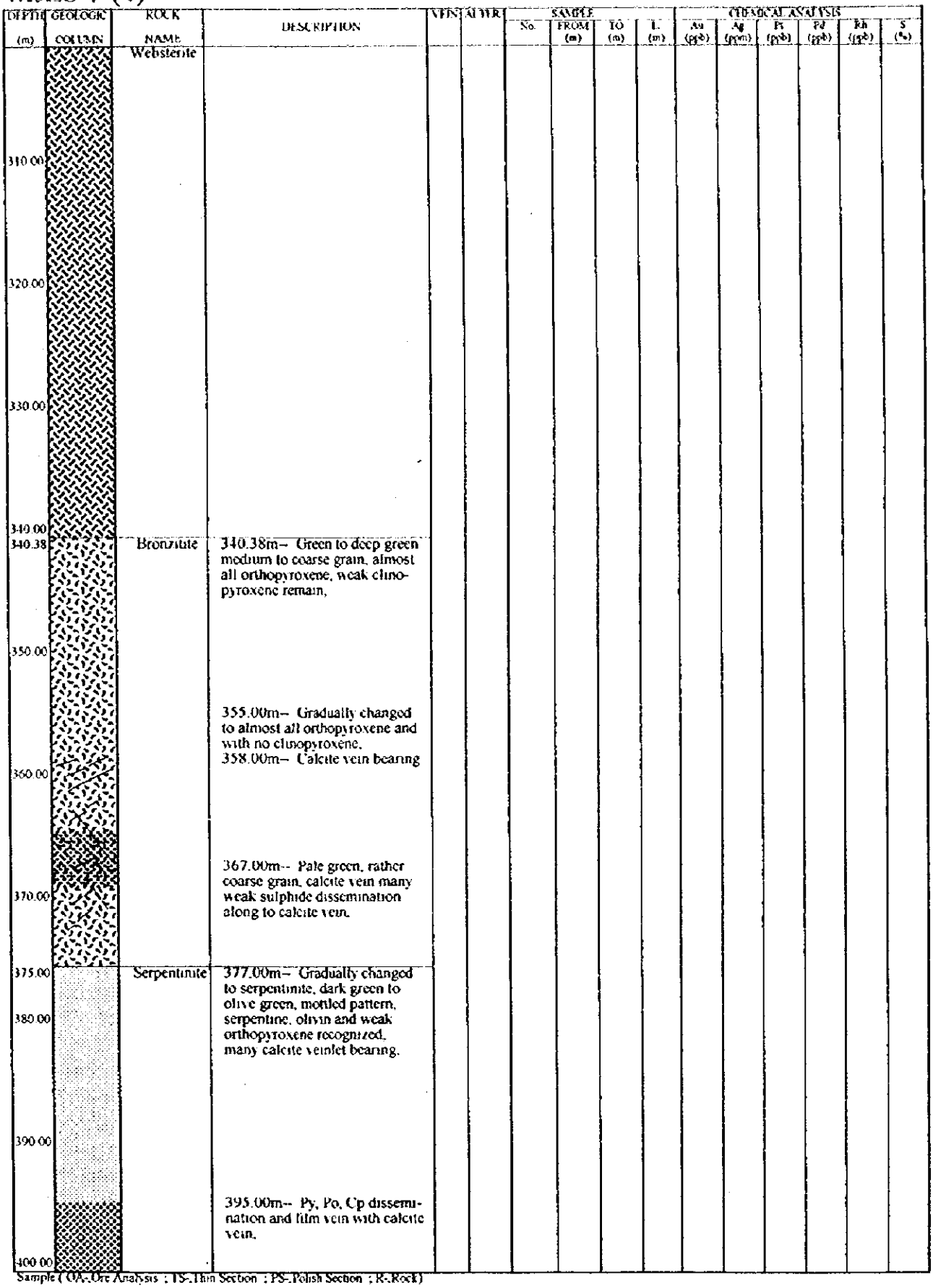
DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	VEIN	ALTER	SAMPLE No	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE L (m)	CHEMICAL ANALYSIS Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
210.00															
220.00															
223.70		Serpentinite	223.70m--233.00m Deep green to olive green, white and black banding, fine grain, weak olivin bearing.												
230.00															
233.00		Websterite	233.00m-- Green color and purple spot of clinopyroxene medium grain, holocrystalline, orthopyroxene≒clinopyroxene												
240.00															
250.00															
260.00															
270.00			267.50m--270.50m Calcite and chlorite vein many.												
280.00															
290.00															
300.00															

Sample (OA-,Ore Analysis ; TS-,Thin Section ; PS-,Polish Section ; R-,Rock)

Fig.II-1-3 Drilling column (MJZS-7) (3)

MJZS-7-(4)

300m-400m



Sample (OA:-Ore Analysis ; TS:-Thin Section ; PS:-Polish Section ; R:-Rock)

Fig.II-1-3 Drilling column (MJZS-7) (4)

MJZS-7-(5)

400m-500m

DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	VEIN	ALTER
		Serpentinite	Weak sulphide mineralization continue,		
410.00					
			415.00m-- Sulphide mineralization become a little strong, many fracture and calcite vein recognized,		
420.00					
430.00					
440.00			440.00m-- strongly crushed,		
450.00		Bronzitite	450.00m-- Gradually changed to bronzitite, deep green, coarse grain, almost all orthopyroxene, holocrystalline, equigranular, sulphide mineralization become strong.		
460.00					
470.00			475.00m-- sulphide mineralization finished.		
480.00					
490.00					
500.00			500.00m STOP		

SAMPLE No.	FROM (m)	TO (m)	L (m)	CHEMICAL ANALYSIS Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
TS- 1	448.50								
TS- 2	462.50								
TS- 3	464.50								
PS- 1	468.50								
PS- 2	469.50								
PS- 3	470.50								
PS- 4	471.50								
PS- 5	472.50								
OA- 1	443.00	444.00	1.00	17	1.25	< 10	138	< 10	0.18
OA- 2	444.00	445.00	1.00	16	1.25	< 10	170	< 10	0.19
OA- 3	445.00	446.00	1.00	18	1.31	< 10	225	< 10	0.18
OA- 4	446.00	447.00	1.00	11	1.16	< 10	208	< 10	0.20
OA- 5	447.00	448.00	1.00	17	1.18	< 10	172	< 10	0.25
OA- 6	448.00	449.00	1.00	25	0.96	< 10	190	< 10	0.27
OA- 7	449.00	450.00	1.00	12	1.01	< 10	180	< 10	0.21
OA- 8	450.00	451.00	1.00	15	1.30	< 10	119	< 10	0.19
OA- 9	451.00	452.00	1.00	16	0.81	< 10	318	< 10	0.21
OA- 10	452.00	453.00	1.00	16	0.70	< 10	151	< 10	0.21
OA- 11	453.00	454.00	1.00	15	0.76	< 10	86	< 10	0.20
OA- 12	454.00	455.00	1.00	21	0.77	< 10	36	< 10	0.20
OA- 13	455.00	456.00	1.00	17	0.83	< 10	124	< 10	0.21
OA- 14	456.00	457.00	1.00	19	0.81	< 10	236	< 10	0.19
OA- 15	457.00	458.00	1.00	22	1.51	< 10	115	< 10	0.20
OA- 16	458.00	459.00	1.00	30	0.88	< 10	168	< 10	0.23
OA- 17	459.00	460.00	1.00	29	0.78	< 10	207	< 10	0.20
OA- 18	460.00	461.00	1.00	38	0.69	< 10	153	< 10	0.21
OA- 19	461.00	462.00	1.00	43	0.90	< 10	88	< 10	0.17
OA- 20	462.00	463.00	1.00	48	1.11	< 10	158	< 10	0.27
OA- 21	463.00	464.00	1.00	31	0.41	< 10	61	< 10	0.13
OA- 22	464.00	465.00	1.00	68	0.74	< 10	150	< 10	0.21
OA- 23	465.00	466.00	1.00	72	0.51	< 10	101	< 10	0.21
OA- 24	466.00	467.00	1.00	75	0.46	43	239	< 10	0.20
OA- 25	467.00	468.00	1.00	100	0.70	171	360	< 10	0.25
OA- 26	468.00	469.00	1.00	101	0.58	339	286	< 10	0.27
OA- 27	469.00	470.00	1.00	130	0.72	514	412	27	0.21
OA- 28	470.00	471.00	1.00	106	1.55	486	412	20	0.19
OA- 29	471.00	472.00	1.00	59	0.98	256	304	21	0.12
OA- 30	472.00	473.00	1.00	28	0.56	195	306	25	0.10
OA- 31	473.00	474.00	1.00	18	1.40	241	276	23	0.07
OA- 32	474.00	475.00	1.00	20	0.13	76	163	10	0.06
OA- 33	475.00	476.00	1.00	24	0.06	79	206	< 10	0.05
OA- 34	476.00	477.00	1.00	17	0.05	74	172	< 10	0.05
OA- 35	477.00	478.00	1.00	16	0.05	52	188	< 10	0.05
OA- 36	478.00	479.00	1.00	15	0.10	77	242	< 10	0.05
OA- 37	479.00	480.00	1.00	8	0.21	56	136	< 10	0.05
OA- 38	480.00	481.00	1.00	7	0.06	51	186	< 10	0.05
OA- 39	481.00	482.00	1.00	4	0.11	36	118	< 10	0.04
OA- 40	482.00	483.00	1.00	4	0.06	67	123	< 10	0.04
OA- 41	483.00	484.00	1.00	3	0.03	53	187	< 10	0.05
OA- 42	484.00	485.00	1.00	4	0.18	27	113	< 10	0.04

Sample (OA:Ore Analysis ; TS:Thin Section ; PS:Polish Section ; R:Rock)

Fig.II-1-3 Drilling column (MJZS-7) (5)

MJZS-8-(1)

0m-100m

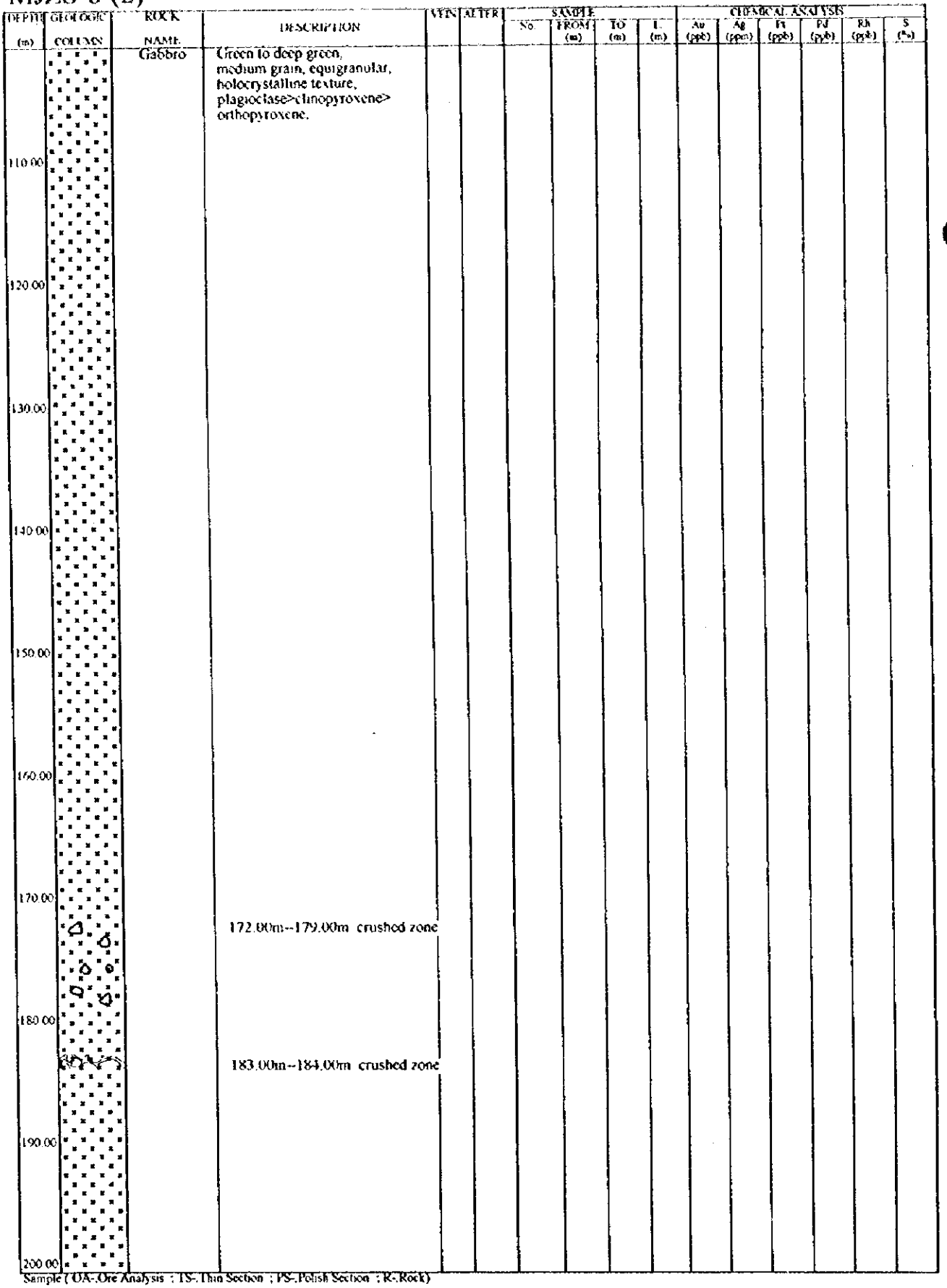
DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	VEIN	ALTER	SAMPLE No	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE L. (m)	CHEMICAL ANALYSIS Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
		Soil	Red to pale green, weathered zone												
10.00															
12.50		Gabbro	12.50m-- Pale green, hard, medium grain, equigranular, holocrystalline, hard, compact, plagioclase>>clinopyroxene> orthopyroxene white spot (plagioclase) many												
20.00															
30.00															
40.00			41.20m--46.30m crushed zone												
50.00															
60.00															
70.00															
80.00															
90.00															
100.00															

Sample (OA-.Ore Analysis ; TS-.Thin Section ; PS-.Polish Section ; R-.Rock)

Fig.II-1-4 Drilling column (MJZS-8) (1)

MJZS-8-(2)

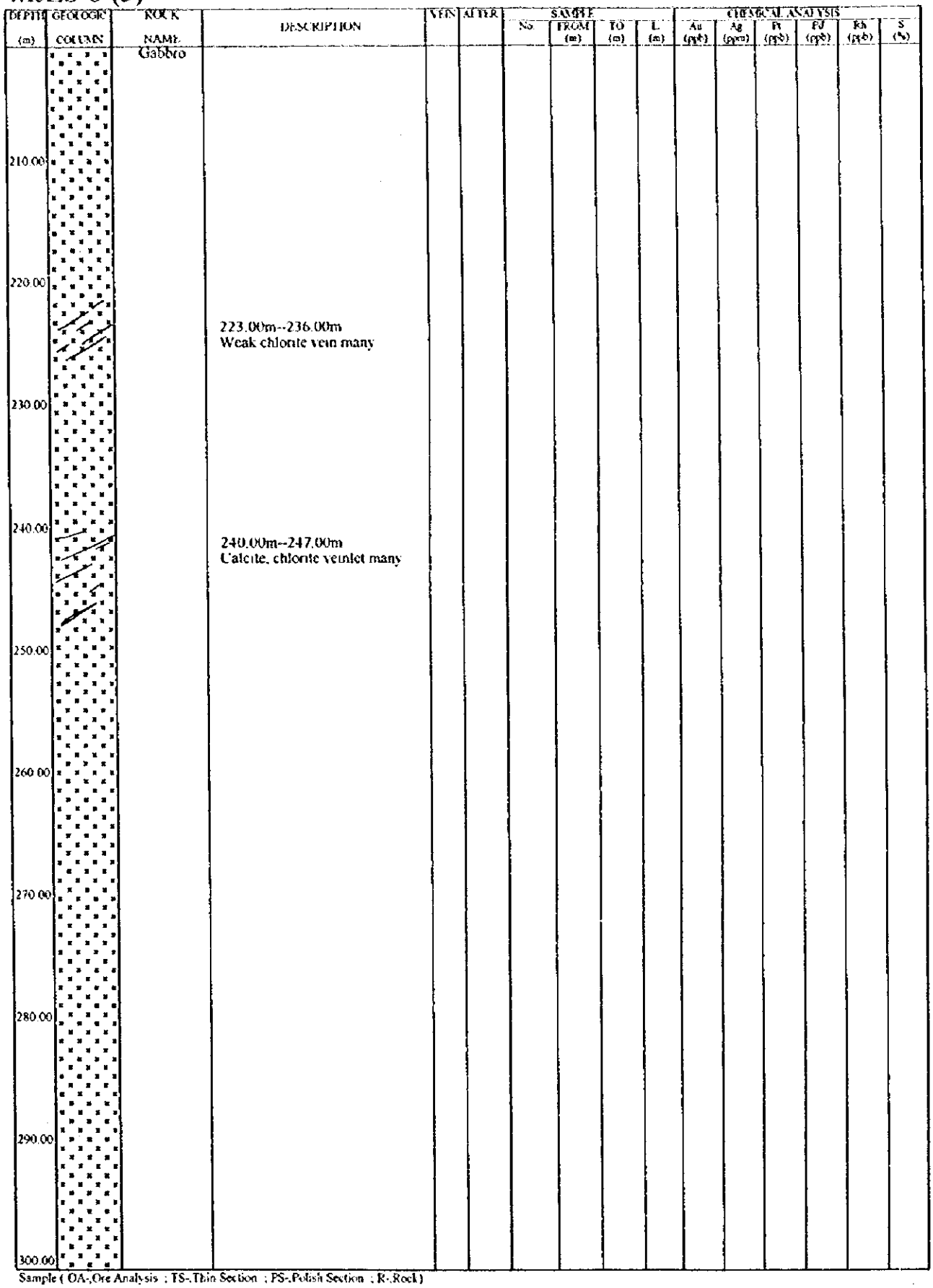
100m-200m



Sample (OA:Ore Analysis ; TS:Thin Section ; PS:Polish Section ; R:Rock)

Fig.II-1-4 Drilling column (MJZS-8)(2)

MJZS-8-(3) 200m-300m



Sample (OA-,Ore Analysis ; TS-,Thin Section ; PS-,Polish Section ; R-,Rock)

Fig.II-1-4 Drilling column (MJZS-8)(3)

MJZS-8-(4)

300m-400m

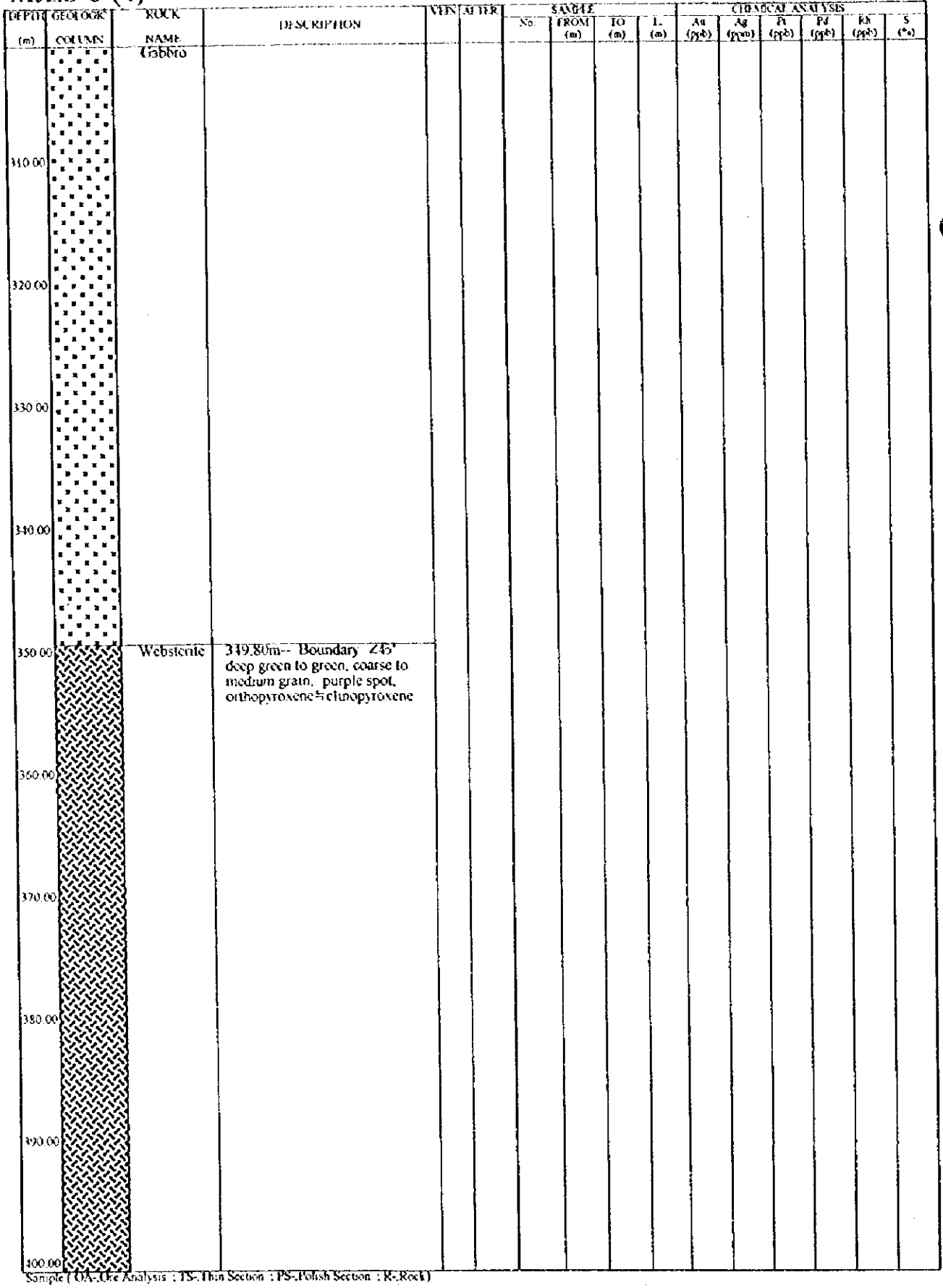
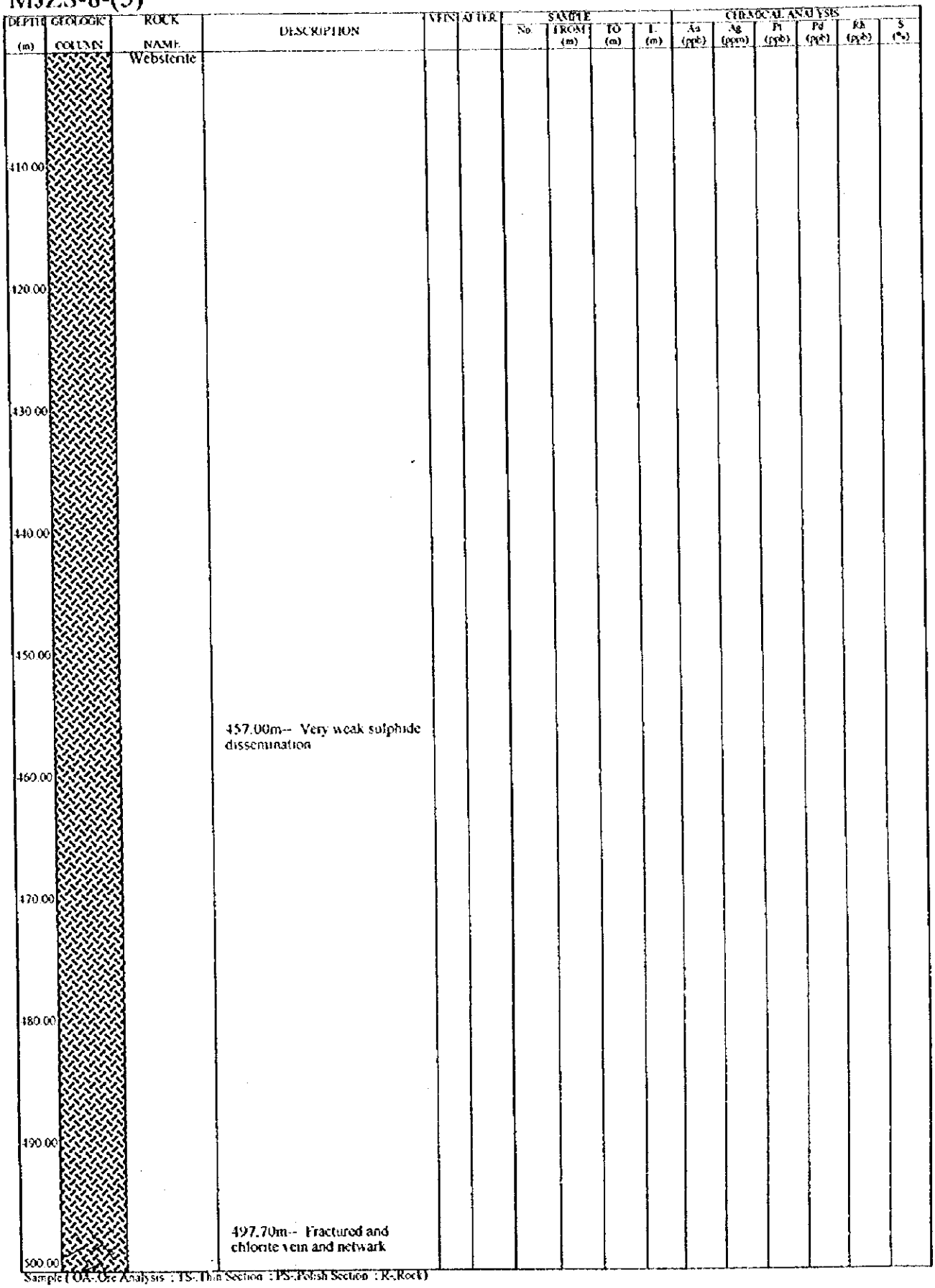


Fig.II-1-4 Drilling column (MJZS-8)(4)

MJZS-8-(5)

400m-500m



Sample (OA:Ore Analysis ; TS:Thin Section ; PS:Polish Section ; R:Rock)

Fig.II-1-4 Drilling column (MJZS-8)(5)

MJZS-8-(6)

500m-600m

DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	VEIN	ALTER
510.00		Websterite			
520.00					
527.60		Bronzitite	527.60m-- Green to deep green coarse grain, mainly orthopyroxene, very weak clinopyroxene bearing		
530.00					
540.00					
550.00					
			554.00m--562.00m Very weak Cp, Po, Py dissemination		
560.00					
			564.19m--565.50m small calcite vein many		
570.00					
574.19		Serpentinite	574.19m-- Dark gray, fine grain Olivin bearing, Serpentinite ?		
580.00					
581.30		Bronzitite	581.30m-- Green to deep green coarse grain, mainly orthopyroxene. 584.00m--589.00m Very weak Py, Po, Cp dissemination 589.00m-- Mineralization become a little strong		
590.00					
600.00					

SAMPLE No.	FROM (m)	TO (m)	L. (m)	CHEMICAL ANALYSIS Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
OA- 1	556.00	557.00	1.00	< 1	0.16	< 10	< 10	< 10	0.17
OA- 2	557.00	558.00	1.00	5	0.23	< 10	< 10	< 10	0.17
OA- 3	558.00	559.00	1.00	< 1	0.16	< 10	< 10	< 10	0.17
OA- 4	559.00	560.00	1.00	7	0.21	< 10	< 10	< 10	0.17
OA- 5	560.00	561.00	1.00	< 1	0.13	< 10	< 10	< 10	0.18
OA- 6	561.00	562.00	1.00	3	0.63	< 10	< 10	< 10	0.18
OA- 7	562.00	563.00	1.00	< 1	0.20	< 10	< 10	< 10	0.17
OA- 8	563.00	564.00	1.00	1	0.13	< 10	< 10	< 10	0.18

Sample (OA-:Ore Analysis ; TS-:Thin Section ; PS-:Polish Section ; R-:Rock)

Fig.II-1-4 Drilling column (MJZS-8)(6)

MJZS-8-(7)

600m-700m

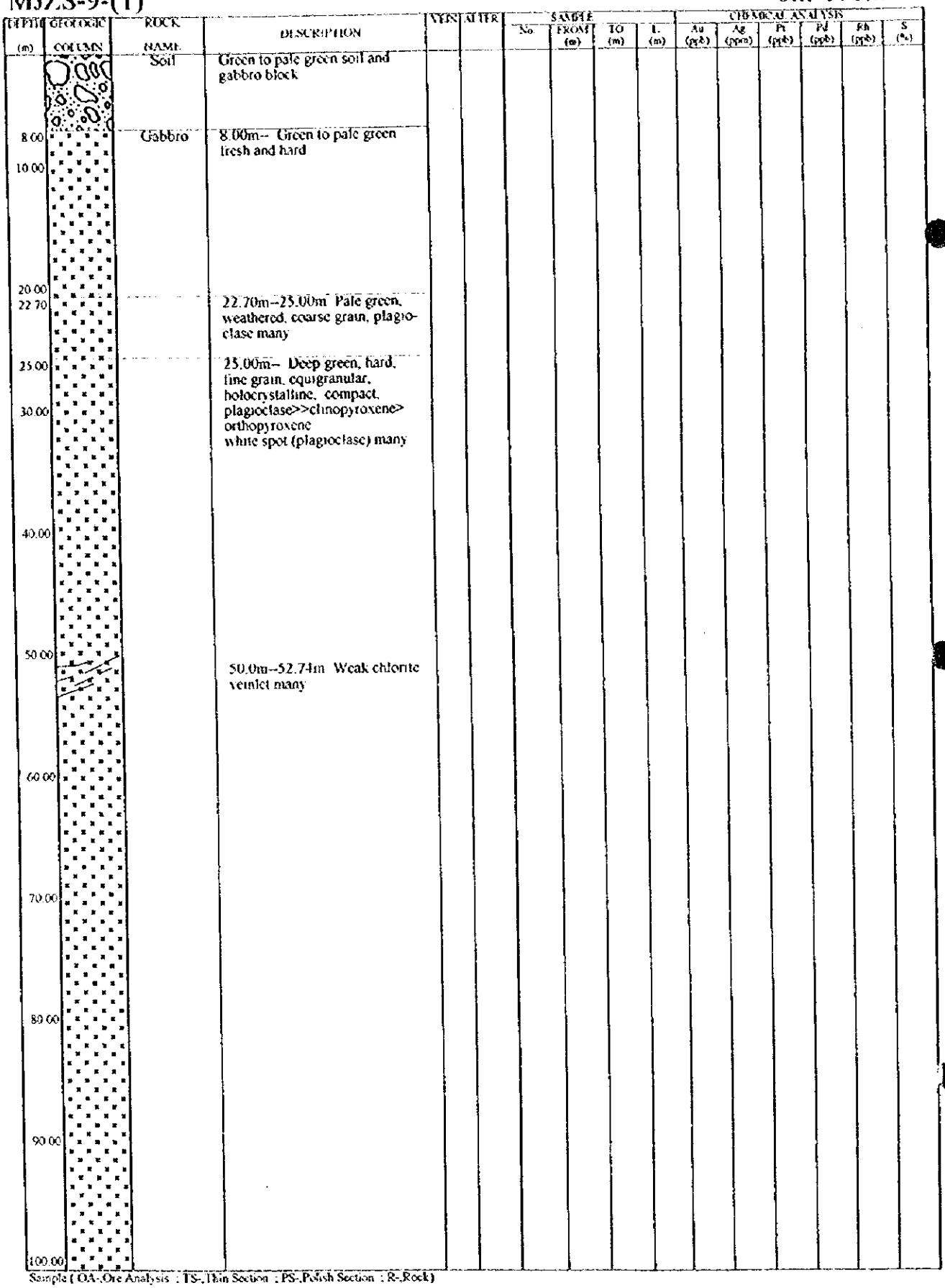
DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	VEIN	ALTER	SAMPLE No.	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE L (m)	CHEMICAL ANALYSIS Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
		Bronzitite	Sulphide mineralization continue rather Py, Po, Cp strong.			TS- 5	614.50								
						PS- 10	616.50								
						PS- 11	617.50								
						PS- 12	618.50								
610.00						OA- 9	610.00	611.00	1.00	70	0.40	< 10	20	< 10	0.23
						OA- 10	611.00	612.00	1.00	82	0.33	< 10	13	< 10	0.24
						OA- 11	612.00	613.00	1.00	42	0.20	< 10	11	< 10	0.16
						OA- 12	613.00	614.00	1.00	76	0.23	35	27	< 10	0.19
						OA- 13	614.00	615.00	1.00	162	0.36	270	113	< 10	0.27
						OA- 14	615.00	616.00	1.00	139	0.30	230	121	< 10	0.23
						OA- 15	616.00	617.00	1.00	144	0.31	423	301	10	0.21
620.00						OA- 16	617.00	618.00	1.00	139	0.43	392	264	26	0.18
						OA- 17	618.00	619.00	1.00	119	0.31	271	332	37	0.16
						OA- 18	619.00	620.00	1.00	49	0.23	205	317	36	0.11
						OA- 19	620.00	621.00	1.00	28	1.37	130	239	18	0.02
			626.00m Mineralization finish			OA- 20	621.00	622.00	1.00	18	0.57	88	262	25	0.05
						OA- 21	622.00	623.00	1.00	9	0.15	68	150	< 10	0.02
						OA- 22	623.00	624.00	1.00	9	0.13	65	116	< 10	0.01
						OA- 23	624.00	625.00	1.00	10	0.26	73	252	11	0.03
630.00						OA- 24	625.00	626.00	1.00	13	0.17	65	231	< 10	0.02
640.00															
650.00			650.00m STOP												
660.00															
670.00															
680.00															
690.00															
700.00															

Sample (OA-:Ore Analysis : TS-:Thin Section : PS-:Polish Section : R-:Rock)

Fig.II-1-4 Drilling column (MJZS-8)(7)

MJZS-9-(1)

0m-100m



Sample (OA-,Ore Analysis ; TS-,Thin Section ; PS-,Polish Section ; R-,Rock)

Fig.II-1-5 Drilling column (MJZS-9)(1)

MJZS-9-(2)

100m-200m

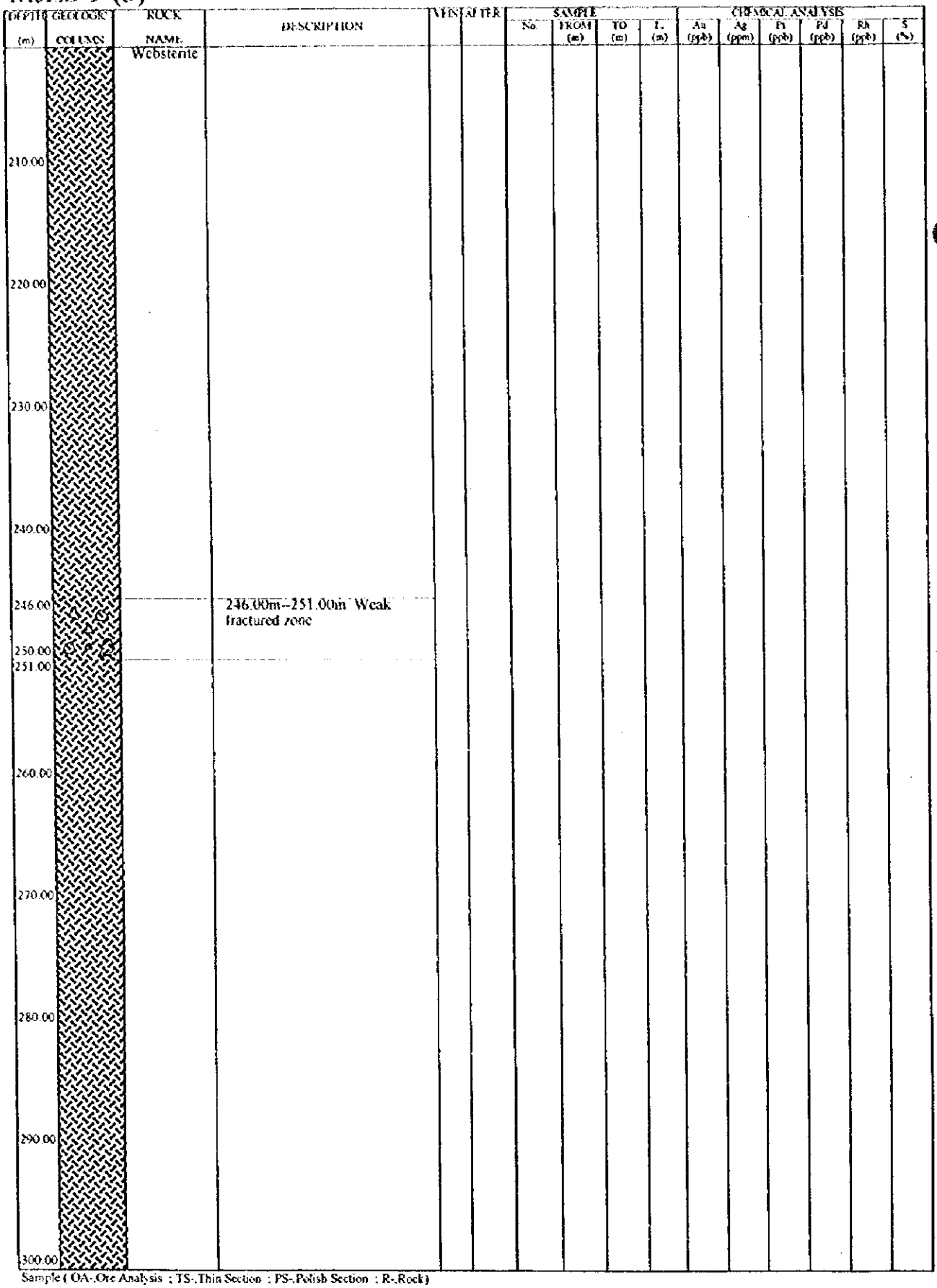
DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	VEIN	ALTER	SAMPLE No.	SAMPLE FROM (m)	SAMPLE TO (m)	SAMPLE L. (m)	CHEMICAL ANALYSIS Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
		Gabbro	Green to deep green, plagioclase>clinopyroxene> orthopyroxene,												
107.00			107.00m-- Weak calcite veinlet bearing												
110.00															
120.00															
130.00															
137.50			137.50m-- Weak calcite veinlet												
140.00															
150.00															
157.00			157.00m--169.00m Chlorite veinlet many												
160.00															
169.00															
170.00															
180.00															
190.00															
190.50		Websterite	190.50m-- Green and purple spot, clinopyroxene many and orthopyroxene, medium grain, holocrystalline, equigranular,												
200.00															

Sample (OA:Ore Analysis ; TS:Thin Section ; PS:Polish Section ; R:Rock)

Fig.II-1-5 Drilling column (MJZS-9) (2)

MJZS-9-(3)

200m-300m



Sample (OA-.Ore Analysis ; TS-.Thin Section ; PS-.Polish Section ; R-.Rock)

Fig.II-1-5 Drilling column (MJZS-9) (3)

MJZS-9-(4) 300m-400m

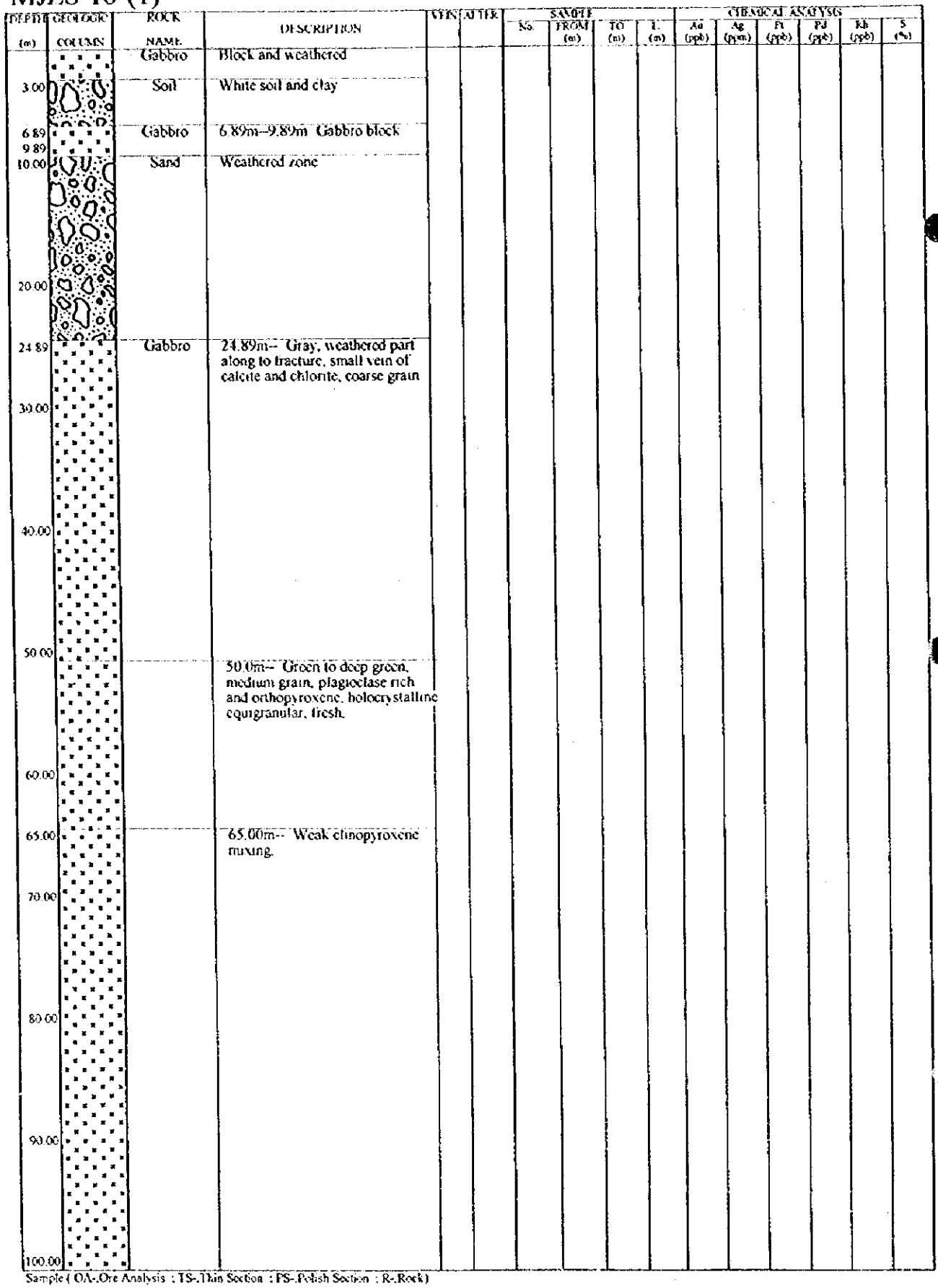
DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	VEIN	ALTER	SAMPLE No.	FROM (m)	TO (m)	L. (m)	CHEMICAL ANALYSIS Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
		Websterite													
310.00															
320.00															
328.54		Bronzitite	328.54m-- Deep green, almost all orthopyroxene, many small calcite bearing, and weak Py, Po, Cp disseminate both side of calcite vein, very weak olivin , and sphene ? bearing.			OA- 1	328.00	329.00	1.00	< 1	0.45	< 10	79	< 10	0.14
330.00						OA- 2	329.00	330.00	1.00	< 1	0.43	< 10	160	< 10	0.15
						OA- 3	330.00	331.00	1.00	< 1	1.06	< 10	110	< 10	0.14
						OA- 4	331.00	332.00	1.00	2	0.17	< 10	11	< 10	0.05
						OA- 5	332.00	333.00	1.00	< 1	0.13	49	11	< 10	0.06
						OA- 6	333.00	334.00	1.00	< 1	0.32	< 10	< 10	< 10	0.10
						OA- 7	334.00	335.00	1.00	21	2.96	< 10	< 10	< 10	0.10
						OA- 8	336.00	336.00	1.00	7	2.27	< 10	< 10	< 10	0.07
340.00						OA- 9	336.00	337.00	1.00	< 1	0.50	< 10	< 10	< 10	0.06
						OA- 10	337.00	338.00	1.00	< 1	0.22	< 10	< 10	< 10	0.09
						OA- 11	338.00	339.00	1.00	3	0.27	28	< 10	< 10	0.06
342.90			342.90m--348.95m Clinopyroxene bearing.			OA- 12	339.00	340.00	1.00	< 1	0.17	< 10	< 10	< 10	0.09
						OA- 13	340.00	341.00	1.00	< 1	0.13	< 10	< 10	< 10	0.05
						OA- 14	341.00	342.00	1.00	< 1	0.13	< 10	< 10	< 10	0.06
						OA- 15	342.00	343.00	1.00	< 1	2.75	< 10	< 10	< 10	0.10
348.90			348.95m-- Calcite veinlet many												
350.00															
354.85			354.85m--372.27m Clinopyroxene bearing												
360.00															
370.00															
372.27			372.27m--379.97m Chlorite and calcite veinlet many.												
379.97															
380.00			379.97m-- Clinopyroxene many												
390.00															
394.50			394.50m--397.20m Almost all orthopyroxene.												
			396.00m--399.00m Weak Py disseminate			OA- 16	396.00	397.00	1.00	< 1	0.82	< 10	< 10	< 10	0.09
						OA- 17	397.00	398.00	1.00	4	0.21	< 10	< 10	< 10	0.09
400.00			400.00m STOP			OA- 18	398.00	399.00	1.00	< 1	0.44	32	< 10	< 10	0.09

Sample (OA-,Ore Analysis ; TS-,Thin Section ; PS-,Polish Section ; R-,Rock)

Fig.II-1-5 Drilling column (MJZS-9)(4)

MJZS-10-(1)

0m-100m



Sample (OA-.Ore Analysis ; TS-.Thin Section ; PS-.Polish Section ; R-.Rock)

Fig.II-1-6 Drilling column (MJZS-10) (1)

MJZS-10-(2)

100m-200m

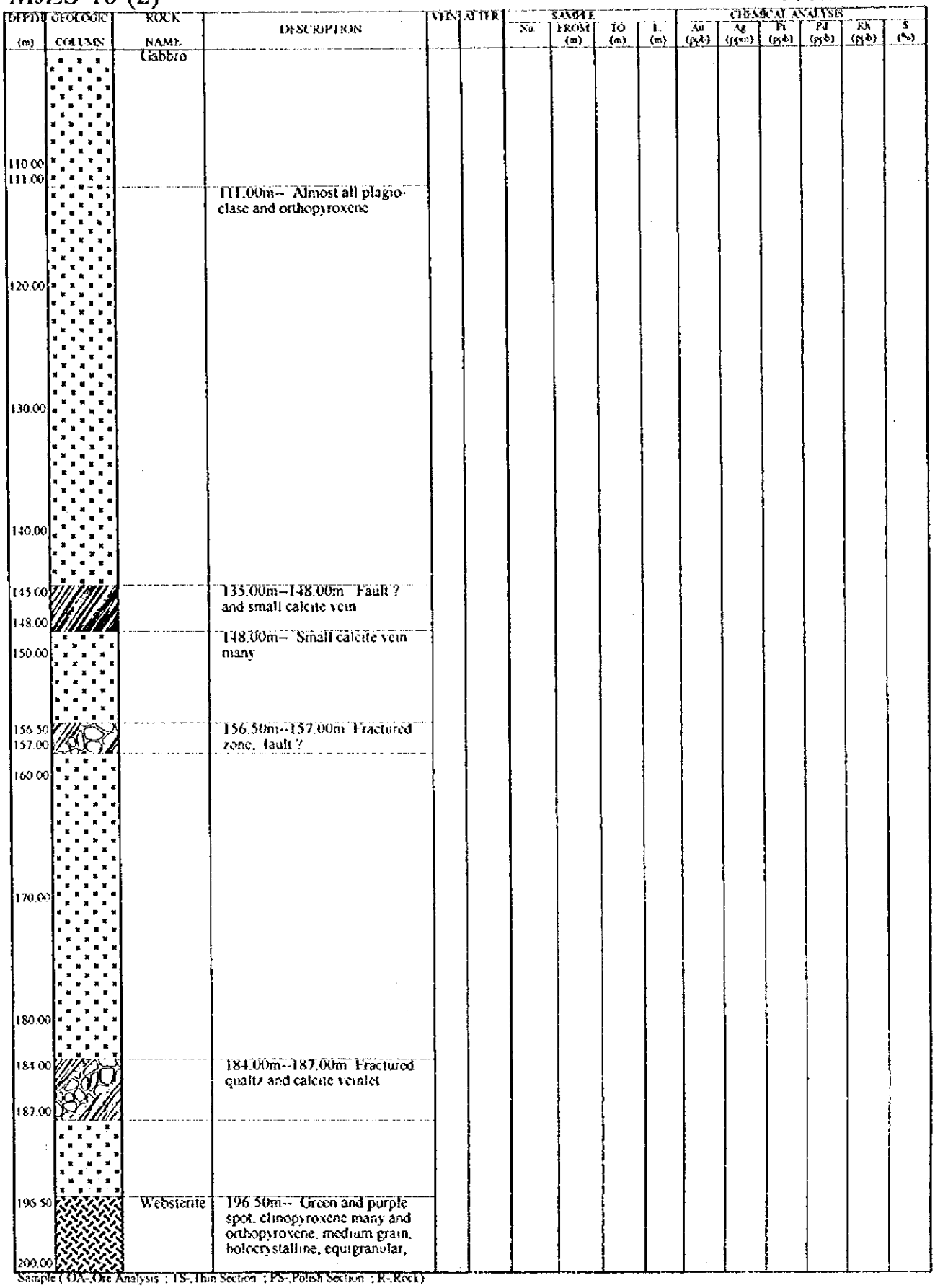
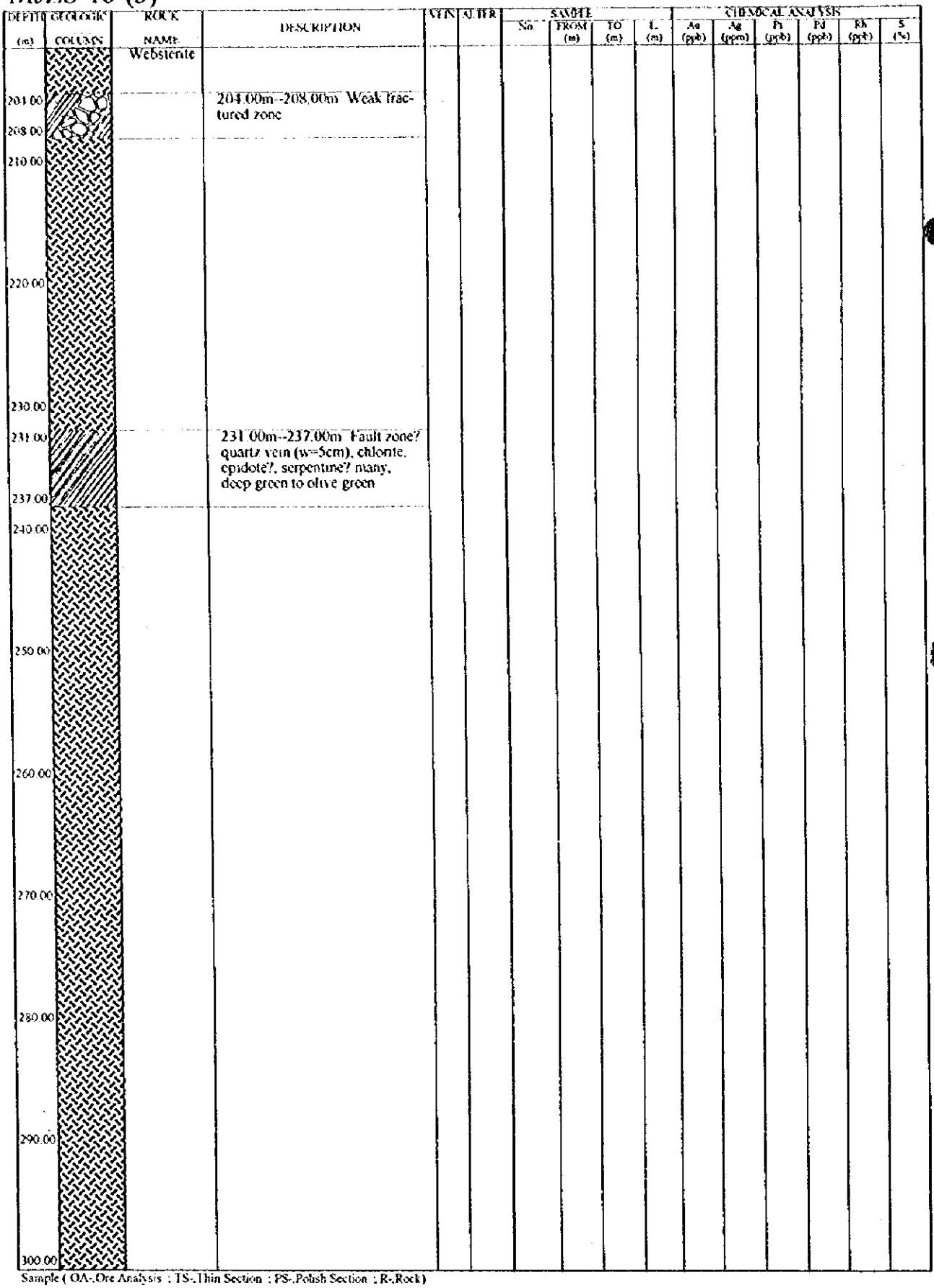


Fig.II-1-6 Drilling column (MJZS-10) (2)

MJZS-10-(3)

200m-300m



Sample (OA-.Ore Analysis ; TS-.Thin Section ; PS-.Polish Section ; R-.Rock)

Fig.II-1-6 Drilling column (MJZS-10) (3)

MJZS-10-(4)

300m-400m

DEPTH (m)	GEOLOGIC COLUMN	ROCK NAME	DESCRIPTION	VEIN	ALTER
301.50		Websterite Bronzitite	301.40m-- Deep green, coarse grain ϕ=1~5mm, almost all orthopyroxene, a small amount of olivin bearing ? weak Cp, Po, Py disseminate		
310.00					
320.00					
323.00			323.00m-- Gradually change to almost all of orthopyroxene, coarse to medium grain.		
330.00			328.00m-- Rather strong sulphide dissemination.		
340.00					
350.00					
351.50			351.50m-355.50m Fractured zone, silicified, fault ?		
355.50			355.50m-- Fine and medium grain, clinopyroxene bearing.		
360.00					
370.00					
373.00			373.00m-373.50m Fractured and silicified, small fault ? 374.00m-- Rather strong sulphide dissemination.		
379.00			379.00m sulphide finished		
380.00			379.00m-381.00m Fine grain banded structure.		
381.00			381.00m-- Deep green, coarse grain, all of orthopyroxene.		
			386.40m Small fracture w=30cm		
390.00					
400.00			400.00m STOP		

SAMPLE / CHEMICAL ANALYSIS

No.	FROM (m)	TO (m)	L (m)	Au (ppb)	Ag (ppm)	Pt (ppb)	Pd (ppb)	Rh (ppb)	S (%)
TS- 6	371.50								
PS- 13	377.50								
OA- 1	370.00	371.00	1.00	24	0.21	< 10	< 10	< 10	0.19
OA- 2	371.00	372.00	1.00	28	0.23	< 10	< 10	< 10	0.20
OA- 3	372.00	373.00	1.00	18	0.23	< 10	< 10	< 10	0.19
OA- 4	373.00	374.00	1.00	48	0.23	< 10	19	< 10	0.14
OA- 5	374.00	375.00	1.00	57	0.16	46	27	< 10	0.17
OA- 6	375.00	376.00	1.00	64	0.28	178	91	< 10	0.20
OA- 7	376.00	377.00	1.00	51	0.25	329	214	< 10	0.21
OA- 8	377.00	378.00	1.00	65	0.11	385	271	19	0.15
OA- 9	378.00	379.00	1.00	67	0.54	304	238	12	0.10
OA- 10	379.00	380.00	1.00	33	0.45	229	166	< 10	0.10
OA- 11	380.00	381.00	1.00	23	0.60	135	197	< 10	0.07
OA- 12	381.00	382.00	1.00	10	0.30	98	220	< 10	0.07
OA- 13	382.00	383.00	1.00	6	0.16	109	206	< 10	0.07
OA- 14	383.00	384.00	1.00	6	0.08	68	230	< 10	0.07
OA- 15	384.00	385.00	1.00	8	0.29	61	192	< 10	0.06
OA- 16	385.00	386.00	1.00	6	0.30	56	226	< 10	0.06
OA- 17	386.00	387.00	1.00	1	1.10	53	156	< 10	0.05
OA- 18	387.00	388.00	1.00	1	0.47	43	123	< 10	0.04
OA- 19	388.00	389.00	1.00	< 1	0.37	44	151	< 10	0.05
OA- 20	389.00	390.00	1.00	< 1	0.08	47	147	< 10	0.05
OA- 21	390.00	391.00	1.00	3	0.20	33	126	< 10	0.05
OA- 22	391.00	392.00	1.00	1	0.18	18	133	< 10	0.05
OA- 23	392.00	393.00	1.00	< 1	0.43	20	93	< 10	0.05
OA- 24	393.00	394.00	1.00	< 1	0.64	18	55	< 10	0.04
OA- 25	394.00	395.00	1.00	< 1	0.50	< 10	79	< 10	0.04
OA- 26	395.00	396.00	1.00	2	0.80	< 10	58	< 10	0.04
OA- 27	396.00	397.00	1.00	< 1	0.44	32	138	< 10	0.06
OA- 28	397.00	398.00	1.00	< 1	0.20	< 10	44	< 10	0.06
OA- 29	398.00	399.00	1.00	3	0.50	< 10	83	< 10	0.07
OA- 30	399.00	400.00	1.00	< 1	0.70	< 10	37	< 10	0.04
TS- 7	391.50								

Sample (OA-:Ore Analysis ; TS-:Thin Section ; PS-:Polish Section ; R-:Rock)

Fig.II-1-6 Drilling column (MJZS-10)(4)