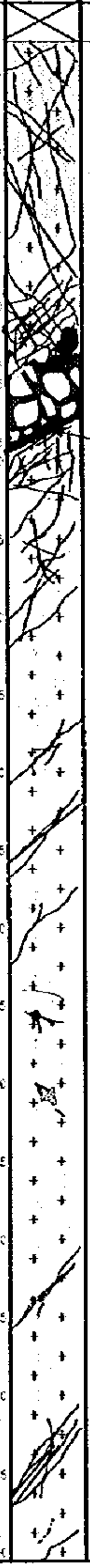
Appendix

Fig. II-1 Geological columnar figures

MJCG-1 (1)

0m－100m



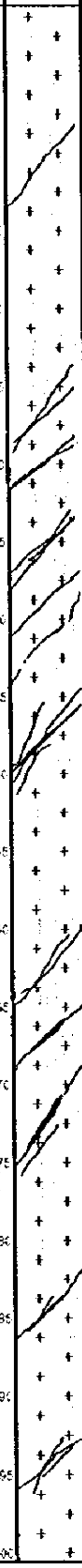
DEPTH (m)	ROCK NAME	DESCRIPTION	ALTERATION and MINERALIZATION	SAMPLE No.	FROM (m)	TO (m)	WIDTH (cm)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	S (ppm)	Mo (ppm)
3.05	Non-core	0-3.05m Tricon-drilling												
5	Aplitic Granite		Weathered (Limonite)											
10		3.05m- Aplitic Granite With Quartz, K-Feldspar, Plagio, Biotite, Hornblende (rare). Pale pinkish gray Chlorite and Epidote Hard.	Silicified Epidote Chlorite	X-ray	9.70									
15		Partly Epidote-network Original Biotite and Hornblende remaining. fragments of Diorite.		Section	15.20									
20		20.5m～ Fracture Zone												
24.45 / 25		24.45m～28.95m, Sheared Zone.												
28.95 / 30	(Fault)	28.95m, Fault. Under the Fault, Silicified more intensive. Very hard.												
35		↓ Biotite, partly chlorite-altered. 35m±, Epidote-Chlorite Network.												
40		38.9m±, Chlorite-Epidote alteration intensive. ↓ Fractures decrease. 41.8m～, hard.		Section X-ray	38.65 42.60									
45														
50		48.3m～48.5m, Epidote-network 52.75m～52.9m, Epidote-network												
55														
60		59.3m～60.45m, Chlorite in Fracture.												
65		65.16m～65.20m, Epidote-altered. Aplitic Granite Pale gray Biotite, partly chlorite-altered.												
70		Partly, epidote-altered intensive.												
75														
80				X-ray	79.05									
85		84.2m～84.5m, Epidote-network												
90														
95		92.6m～93.0m, Sheared Zone.												
100														

MJCG-1 (2)

100m－200m

DEPTH (m)	Geological Column	ROCK NAME	DESCRIPTION	ALTERATION and MINERALIZATION	SAMPLE No.	FROM (m)	TO (m)	WIDTH (cm)	CHEMICAL ANALYSIS Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	S (ppm)	Mo (ppm)
			Aplitic Granite With Quartz, K-Feldspar, Plagio, Biotite, Hornblende(rare). Pale pinkish gray		X-ray	100.25									
105		Aplitic Granite	Silicified, with Chlorite and Epidote Partly Epidote-network												
110															
			114.9m~116.5m Fractured.												
115															
120															
			123.5m~126.7m Fractured.												
125															
			126m~129m Partly Epidote-network												
130			White alteration, Silicified intensive.												
					Section	133.35									
			133.8~134.1m, Quartz Vein with Specularite, width <3cm.		Analysis	133.50	134.00	50	0.06	1.59	18	93	93	227	< 1
					X-ray	134.10									
135			Epidote, Chlorite dominant.		Polish	134.10									
					F.I.	134.30									
			136.8m~137.4, Sheared.		Analysis	134.30	134.80	50	0.01	3.92	22	51	295	742	< 1
140					Polish	141.30									
			142m±, Silicified, intensive.												
					Analysis	143.50	144.00	50	0.03	1.73	22	97	112	130	< 1
145															
					Analysis	146.70	147.20	50	0.05	1.73	37	138	107	119	< 1
150															
					Analysis	155.40	155.90	50	0.03	2	12	97	92	109	< 1
155					X-ray	155.90									
			155.8m~156.0, Sheared.												
					Analysis	157.90	158.40	50	0.03	2	15	80	70	98	< 1
			158.9m~159.3, Sheared.												
160															
165															
					Analysis	165.85	166.35	50	0.06	2	10	73	63	91	< 1
					Analysis	169.10	169.60	50	0.02	2	9	73	62	91	< 1
170					Section	169.60									
			170.8m~171.0m, Sheared.												
175															
			178.6~178.7m, Chlorite dominant.												
180															
			183.3~183.85, Epidote network with Chlorite.		Analysis	184.15	184.65	50	0.01	3.60	11	329	102	108	< 1
185															
					Analysis	187.30	187.80	50	0.05	1.73	15	92	122	118	< 1
			186.8~187.7m, White altered.		X-ray	187.50									
			Green alteration dominant.		Dating	187.50									
190			189.95m, Chlorite in Fracture.												
195															
			195.0~199.4, Fractured		F.I.	196.35									
					Analysis	198.20	198.70	50	< 0.01	6.20	10	1067	111	119	< 1
200															

200m～300m

DEPTH (m)	Geological Column	ROCK NAME	DESCRIPTION	ALTERATION and MINERALIZATION	SAMPLE No.	FROM (m)	TO (m)	WIDTH (cm)	CHEMICAL ANALYSIS Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	S (ppm)	Mo (ppm)
			Aplitic Granite		Analysis	201.35	201.85	50	0.03	1.87	13	93	119	108	< 1
			Silicified, Intensive												
			201.0m～201.25m, Fractured.												
205			Pale pinkish gray												
		Aplitic													
		Granite	Chlorite-Epidote network.												
			Partly Epidote-network												
210					Analysis	209.50	210.00	50	0.04	1.73	7	92	91	93	< 1
					Analysis	212.60	213.10	50	0.01	1.73	12	80	228	103	< 1
215															
					Section	215.15									
					Section	239.90									
220															
225			↓White alteration dominant.		Section	227.20									
			227.5～227.6m, Chrysocolla disseminated		Dating	227.20									
					X-ray	227.20									
					Polish	227.50									
230			230.0m～230.25m, Fractured.		F.I.	227.60									
					Analysis	227.70	228.20	50	0.01	2.15	13	123	127	132	1
					X-ray	230.50									
					Analysis	231.00	231.50	50	0.02	1.73	35	85	132	129	< 1
235			235.7m～236.6m, Fractured.												
			238.3m～238.5m, Fractured.		Section	239.90									
240					Analysis	242.70	243.20	50	0.02	1.73	13	80	74	134	< 1
			242.7～242.8m, Chrysocolla disseminated		Polish	242.70									
			with specularite		X-ray	242.80									
			↓White alteration dominant.		Analysis	244.70	245.20	50	0.04	1.73	10	94	98	121	< 1
245			Silicified, intensive.												
					Polish	247.10									
					Polish	272.20									
			247.0～247.5m, Chlorite in Fracture.												
250			249.45～249.55m, Shered.												
			250.45～250.55m, Shered.												
			↑White alteration dominant.												
			↓Partly, Chlorite-Epidote veinlets.												
255															
					Analysis	256.20	256.70	50	0.03	1.73	13	92	80	101	< 1
260					Analysis	259.00	259.50	50	< 0.01	2.74	13	80	72	101	< 1
			262.8m～263.2m, Fractured.												
265															
			265.25～235.30, Qz-Chlorite-Epidote veinlets, width:3mm.												
					Analysis	268.00	268.50	50	0.02	1.73	10	86	64	68	< 1
270					Analysis	270.30	270.80	50	< 0.01	1.87	10	85	67	127	< 1
			271.9m～272.55m, Epidote-Specularite		Polish	272.20									
			veinlet, width:4mm, 70°.		X-ray	272.50									
275			↑Green alteration dominant.												
			↓White alteration dominant.												
280															
					Analysis	284.80	285.30	50	< 0.01	2.74	8	90	81	187	< 1
			284.8m～284.9m, Chalcocite?-Specularite		Section	284.90									
285															
290															
					Analysis	293.70	294.20	50	0.01	1.87	10	97	97	180	< 1
			↑White alteration dominant.												
295			↓Green alteration dominant.												
					Analysis	295.50	296.00	50	< 0.01	1.73	9	99	89	125	< 1
					Analysis	298.50	299.00	50	0.04	3.31	12	126	94	115	< 1
300															

MJCG-1 (4)

300m-400m

DEPTH (m)	Geological Column	ROCK NAME	DESCRIPTION	ALTERATION and MINERALI-ZATION	SAMPLE No.	FROM (m)	TO (m)	WIDTH (cm)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	S (ppm)	Mo (ppm)
			Aplitic Granite **With Quartz, K-Feldspar, Plagio, Biotite.**		Analysis	300.00	300.50	50	< 0.01	1.87	9	99	72	159	< 1
305		Aplitic Granite	**Pale pinkish gray** **Silicified, with Chlorite and Epidote** Partly Epidote-network		Analysis	306.30	306.80	50	< 0.01	1.86	11	89	98	459	< 1
310			306.0~306.1m, Epidpte dominant.		X-ray	311.40									
315			**White-altered.** 317.0~317.1m, Epidpte dominant with chlorite.												
320			↑Green alteration dominant. ↓White alteration dominant.		Analysis	319.30	319.80	50	0.02	2.30	38	135	69	565	< 1
					Analysis	322.50	323.00	50	< 0.01	2.73	38	136	91	254	< 1
325					Analysis	326.90	327.40	50	< 0.01	1.86	19	107	82	227	< 1
330			331.0~332.1m, Epidpte dominant.		Analysis	330.00	330.50	50	0.02	2.01	27	121	43	513	< 1
335			**334.6~335.0, Fractured.** 335.1~339.3, Chlorite-networks.		Analysis	336.10	336.60	50	0.01	1.86	27	93	55	191	< 1
					Analysis	338.25	338.75	50	0.01	2.01	75	93	65	137	< 1
340					Analysis	338.75	339.25	50	< 0.01	2.01	40	100	62	178	< 1
345				Vein											
350			350.0, Chlorite dominant.		X-ray	353.55									
355			↓												
360															
365			Fractures decrease. More homogeneous.												
370															
375															
380															
385					Analysis	384.00	384.50	50	< 0.01	2.15	79	116	78	166	< 1
390			393.3~393.4 Chlorite-Epidote veinlet width:4mm												
395					Analysis	333.20	333.70	50	0.02	1.86	22	132	68	218	< 1
					Section	399.90									
					X-ray	399.90									
400					Analysis	399.00	399.50	50	< 0.01	2.30	81	137	90	147	< 1

MJCG−2 (1)

0m−100m

DEPTH (m)	Geological Column	ROCK NAME	DESCRIPTION	ALTERATION and MINERALIZATION	SAMPLE				CHEMICAL ANALYSIS						
					No.	FROM (m)	TO (m)	WIDTH (cm)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	S (ppm)	Mo (ppm)
5 9.02		Non-core	· 0-9.02m Tricon-drilling	Weathered (Limonite)											
10 15		Granodiorite	· Granodiorite. Biotite dominant. With Gneissose~Microdioritic Xenolith. Qz, Pl, K-Feldspar, bio, hornblende imp. · ~14m±, weathered. Jointed fractures, 20~30m interval.	Chlorite(p) hematite											
20			Mafic mineral dominant.		X-ray Section	19.50 19.50									
24.45 25					X-ray	24.10									
28.95 30			Fracture with limonite, hematite												
35			Hair cracks with limonite. · 35.2m, limonite, Muscovite in fracture(60°).		X-ray	35.30									
40			(diorite xenolith) Aplite, Pale pinkish gray 35°												
45			(diorite xenolith)												
50			· 49.75m, Chrysocolla and Malachite in fracture(30°).												
55			(Aplite)												
60			(dioritic~migmatic xenolith)												
65			Aplite~Pegmatite		Section	66.60									
70			Partly, gneissose.												
75			(Aplite)		Analysis	74.70	75.20	50	0	1.74	504	94	82	256	< 1
			Fracture with Malachite		X-ray	77.20									
80			· 80m~, Chlorite(p).		Analysis	78.50	79.00	50	0	1.44	71	92	44	215	< 1
			· 84.15~84.85m, sheared zone.		Analysis	81.30	81.80	50	0	1.44	134	80	56	234	< 1
85			(diorite xenolith)												
90			Diorite dyke. Fine grained.		Analysis	89.65	90.35	50	0.05	1.60	120	95	68	291	< 1
95			· 93.5m~94.0m, Chalcopyrite-Pyrite veinlets. 1~2mm.		Analysis	93.50	94.00	50	0.07	1.30	172	90	113	1300	1
100			Diorite dyke. Fine grained.		Analysis	97.80	98.30	50	< 0.01	1.00	78	105	70	309	< 1

MJCG-2 (2)

100m–200m

DEPTH (m)	ROCK NAME	DESCRIPTION	ALTERATION and MINERALIZATION	SAMPLE No.	FROM (m)	TO (m)	WIDTH (cm)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	S (ppm)	Mo (ppm)
105		105.7m, Fault Clay.		X-ray	105.90									
110		Melanocratic dioritic xenolith.												
115														
120														
125														
130		Fracture, with crisocolla.		Analysis	130.50	131.00	50	0.05	5.71	367	388	2330	1250	< 1
		131.3m, Quartz–Malachite veinlet. 30°, 10mm×.		F.I.	131.20									
				Analysis	131.40	131.90	50	0.03	6.74	2920	125	1440	4450	1
135				F.I.	151.50									
140		Fracture – fault.												
				Section	143.70									
145				Analysis	145.10	145.60	50	0.01	1.44	81	102	122	794	< 1
		146.65m, Quartz-Pyrite-Chalcopyrite		polish	146.65									
				F.I.	146.65									
150		150.2m, Quartz-Pyrite-Chalcopyrite		Analysis	151.30	151.80	50	0.02	19.5	262	1545	751	35700	< 1
				F.I.	151.50									
		154.25m, Chalcopyrite(p) disseminated.		Analysis	154.00	154.50	50	0.02	1.30	21	91	60	968	1
155				X-ray	154.30									
		Aplite, fractured.												
160				Analysis	160.00	160.50	50	0.03	1.59	40	85	53	462	1
				Analysis	161.00	161.50	50	0.01	1.59	38	85	58	618	2
		163.3m, Pyrite-Chalcopyrite veinlet. 65°, 6mm.												
165				X-ray	166.90									
		167m±, Sheared zone, limonite.		Analysis	169.00	169.50	50	< 0.01	4.09	1906	145	76	55600	4
		169.3m~170.3m, Pyrite-Chalcopyrite disseminated~ veinlet		polish	169.90									
170				Analysis	170.00	170.50	50	< 0.01	2.03	405	146	343	3250	2
				polish	171.00									
		Aplitic		Analysis	171.85	172.35	50	0.01	1.59	55	101	57	414	1
175				Analysis	175.50	176.00	50	< 0.01	1.74	98	118	103	1240	2
		Fracture, limonite		Analysis	176.00	176.50	50	< 0.01	2.62	399	103	153	1440	2
				Analysis	179.00	179.50	50	0.07	36.0	17500	261	591	17900	27
180		Fractures with chalcopyrite.												
		Chalcopyrite veinlets.		Analysis	183.80	184.30	50	0.03	1.74	133	84	67	486	2
185		Chalcopyrite veinlet												
190		Aplitic.		Section	183.70									
				X-ray	193.60									
195		195.4m, Quartz-Chalcopyrite veinlet. 65°, 5cm.												
200														

DEPTH (m)	ROCK NAME	DESCRIPTION	ALTERATION and MINERALIZATION	SAMPLE No.	FROM (m)	TO (m)	WIDTH (cm)	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	S (ppm)	Mo (ppm)
205		・204.8m~205.0m, 208.9m~209.95m, Sheared zones.												
210				Analysis	209.80	210.30	50	< 0.01	1.73	83	90	59	414	< 1
215		・217.9m, Quartz-Chalcopyrite veinlet, 60°, 4mm.		Analysis	217.90	218.40	50	0.03	3.34	612	140	281	712	2
220		・222.9m, Pyrite veinlet,		Analysis	222.90	223.40	50	0.01	2	196	101	82	674	15
225				X-ray	229.50									
230		Fractured, with limonite.												
		・233.1m, Chalcopyrite veinlet, 60°, 4mm.		polish	233.10									
				Analysis	233.10	233.60	50	0.02	1.73	67	81	58	438	< 1
235														
240														
245		・249.0m, Chalcopyrite veinlet, 70°, 2mm.		Analysis	249.00	249.50	50	0.02	7.42	5220	805	793	5980	16
250		250.6m, chalcopyrite network.		Analysis	253.00	253.50	50	0.02	1.73	55	90	58	625	< 1
255														
260		Diorite xenolith		Analysis	263.15	263.65	50	0.03	1.59	66	74	56	502	1
				Section	263.50									
265														
270				Analysis	271.70	272.20	50	< 0.01	1.59	51	77	59	615	1
				X-ray	271.80									
275		278.0m, Pyrite-Chalcopyrite -Chilorite-Epidote veinlet, 60° Width 2mm.												
280														
285				Analysis	285.10	285.60	50	< 0.01	1.59	45	84	62	345	2
		・289.5m, Chalcopyrite veinlet, 65°, 1mm.		polish	289.60									
290				Analysis	292.65	293.15	50	< 0.01	1.88	176	92	71	602	< 1
		・293.05m, 294.05m, 295.0m, Chalcopyrite Chalcocite etc. veinlets, 55~70°, Width<1mm.		X-ray	293.20									
				Analysis	293.65	294.15	50	0.09	33.8	18800	2390	6930	20370	7
295				Analysis	294.70	295.20	50	< 0.01	1.88	92	93	64	458	1
				polish	294.85									
				Analysis	295.10	295.60	50	0.05	2.32	96	93	68	600	1
300														

Table Ⅱ-1　Result of microscopic observation of thin section

NO.	DRILLING NO	DEPTH (m)	ROCK TYPE	TEXTURE	PHENOCRYST							GROUNDMASS				ALTERATION・METAMORPHIC											REMARKS
					Quartz	Plagioclase	K-feldspar	Biotite	Hornblende	Fe-mineral	Mafic mineral	Quartz	Plagioclase	K-feldspar	Fe-mineral		Quartz	Chlorite	Sericite	Calcite	Clay mineral	Opaque mineral	Zircon	Epidote	Sphene	Monazite	
1	MJCG-1	15.2	Aplitic Granite	Holocrystal, Equigranular	◎	◎	○	·									·	△	·		·	△	·	△			
2	MJCG-1	38.9	Aplitic Granite	Holocrystal, Equigranular	◎	◎	○			·								△	·		·	△	·	△			
3	MJCG-1	133.4	Aplitic Granite	Holocrystal, Equigranular	◎	○	◎			·							·	△	·			△		△			
4	MJCG-1	169.6	Aplitic Granite	Holocrystal, Equigranular	◎	◎	○			·								·	·	△		△		△			
5	MJCG-1	215.2	Aplitic Granite	Holocrystal, Equigranular	◎	◎	◎			·							·	·	·	·		△		△			
6	MJCG-1	227.2	Aplitic Granite	Holocrystal, Equigranular	◎	◎	○			·							·	·	·	·		△		△			
7	MJCG-1	239.9	Aplitic Granite	Holocrystal, Equigranular	◎	○	○			·							·	○	·	△		△		△			
8	MJCG-1	284.9	Aplitic Granite	Holocrystal, Equigranular	◎	◎	○	?	?	·							·	△	·			△		△			
9	MJCG-1	399.9	Aplitic Granite	Holocrystal, Equigranular	◎	◎	○	?	?	·							·	△	·	△				△			
10	MJCG-2	19.5	Granodiorite	Holocrystal, Equigranular	◎	◎	△	○	△	△								△	·	·		·	·	·	·		
11	MJCG-2	66.6	Granodiorite	Holocrystal, Equigranular	◎	◎	△	○	△	△								·	·	·		△		·	△		Partly migmatic.
12	MJCG-2	143.7	Granodiorite	Holocrystal, Equigranular	○	◎	△	○	△	·								△	·	·		△	·	△			
13	MJCG-2	183.7	Granodiorite	Holocrystal, Equigranular	○	◎	△	○	?	△								△	·	△		△				·	
14	MJCG-2	263.5	Granodiorite	Holocrystal, Equigranular	○	◎	△	○	△	·								△	·	·		·	·				

Legend
◎:Abundant　○:Medium　△:Minor　・:Rare

Table II-2 Result of microscopic observation of polish section

NO.	DRILLING NO.	Depth (m)	HOST ROCK	MINERALS								Remarks
				Chalcopyrite	Pyrite	Galena	Sphalerite	Bornite	Hematite		Quartz	
1	MJCG-1	134.10	Aplitic Granite						◎		◎	Tablar hematite
2	MJCG-1	141.30	Aplitic Granite						△		○	
3	MJCG-1	227.50	Aplitic Granite						•		○	
4	MJCG-1	242.70	Aplitic Granite						△		○	Tablar hematite
5	MJCG-1	247.10	Aplitic Granite						○		○	
6	MJCG-1	272.20	Aplitic Granite						○		○	
7	MJCG-2	146.65	Granodiorite	◎	○	•	△		△		◎	Sphalerite exsoluting in Chalcopyrite
8	MJCG-2	169.90	Granodiorite	△	◎	•					○	
9	MJCG-2	171.00	Granodiorite	◎	△	△	◎				◎	Ideomorphic pyrite
10	MJCG-2	233.10	Granodiorite	○			△				◎	
11	MJCG-2	289.60	Granodiorite	•	○				△		○	
12	MJCG-2	294.85	Granodiorite	◎	△		•	•			○	

Legend
◎:Abundant ○:Medium △:Minor •:Rare

Table II—3 Result of X-Ray Diffraction Analysis

NO.	DRILLING NO.	DEPTH m	ROCK TYPE	MINERALS													Remarks
				Quartz	plagioclase	K-Feldspar	Biotite	Hornblende	Albite	Montmollironite	Chlorite	Sericite	Epidote	Laumontite	Stilbite	Calcite	
1	MJCG-1	9.70	Aplitic granite	◎	○	△				△			·				
2	MJCG-1	42.60	Aplitic granite	◎	○	△					·		△				
3	MJCG-1	79.05	Aplitic granite	◎	○	△					·		△				
4	MJCG-1	100.25	Aplitic granite	◎	○	△					·		·				
5	MJCG-1	134.10	Aplitic granite	◎							○		△			△	Near by Quartz vein
6	MJCG-1	155.90	Aplitic granite	◎	◎	△					·		△				
7	MJCG-1	187.50	Aplitic granite	◎	△	△					·	·	△				
8	MJCG-1	227.20	Aplitic granite	△	◎	△					·		△				
9	MJCG-1	230.50	Aplitic granite	△		△			◎		△		△			·	
10	MJCG-1	242.80	Aplitic granite	◎		○			○		·		△				
11	MJCG-1	272.50	Aplitic granite	△		○					△		△		△	△	
12	MJCG-1	311.40	Aplitic granite	◎		△			◎		△						
13	MJCG-1	353.55	Aplitic granite	◎		△			○		·		△				
14	MJCG-1	399.90	Aplitic granite	◎		△			◎		△		△				
15	MJCG-2	19.50	Granodiorite	○	○	·	△	△			·				·	△	
16	MJCG-2	24.10	Granodiorite	◎	○	△	△	△			△					△	
17	MJCG-2	35.30	Granodiorite	◎		△					△	△					
18	MJCG-2	77.20	Granodiorite	◎	△						·			○			
19	MJCG-2	105.90	Granodiorite	◎	○	△	·				△	·					
20	MJCG-2	154.30	Granodiorite	◎	○		○				△						
21	MJCG-2	166.90	Granodiorite	◎	△	△	△	·			△						
22	MJCG-2	193.60	Granodiorite	◎	△	△	△	△			·						
23	MJCG-2	229.50	Granodiorite	◎	◎		△	△			△						
24	MJCG-2	271.80	Granodiorite	◎	◎		△	△			△						
25	MJCG-2	293.20	Granodiorite	◎	◎		△	△							·		

Legend
◎:Abundant ○:Medium △:Minor ·:Rare

Table II-4 Result of Chemical analysis of ore samples

No	Sample	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	S (ppm)	Mo (ppm)
1	MJCG-1 133.50 ~ 134.00 m	0.06	1.59	18	93	93	227	< 1
2	MJCG-1 134.30 ~ 134.80 m	0.01	3.92	22	51	295	742	< 1
3	MJCG-1 143.50 ~ 144.00 m	0.03	1.73	22	97	112	130	< 1
4	MJCG-1 146.70 ~ 147.20 m	0.05	1.73	37	138	107	119	< 1
5	MJCG-1 155.40 ~ 155.90 m	0.03	2.02	12	97	92	109	< 1
6	MJCG-1 157.90 ~ 158.40 m	0.03	1.88	15	80	70	98	< 1
7	MJCG-1 165.85 ~ 166.35 m	0.06	1.88	10	73	62	91	< 1
8	MJCG-1 169.10 ~ 169.60 m	0.02	1.73	9	73	62	91	< 1
9	MJCG-1 184.15 ~ 184.65 m	0.01	3.60	11	329	102	108	< 1
10	MJCG-1 187.30 ~ 187.80 m	0.05	1.73	15	92	122	118	< 1
11	MJCG-1 198.20 ~ 198.70 m	< 0.01	6.20	10	1067	111	110	< 1
12	MJCG-1 201.35 ~ 201.85 m	0.03	1.87	13	93	119	108	< 1
13	MJCG-1 209.50 ~ 210.00 m	0.04	1.73	7	92	91	93	< 1
14	MJCG-1 212.60 ~ 213.10 m	0.01	1.73	12	80	228	103	< 1
15	MJCG-1 227.70 ~ 228.20 m	0.01	2.16	13	123	127	132	1
16	MJCG-1 231.00 ~ 231.50 m	0.02	1.73	35	85	132	129	< 1
17	MJCG-1 242.70 ~ 243.20 m	0.02	1.73	13	80	74	134	< 1
18	MJCG-1 244.70 ~ 245.20 m	0.04	1.73	10	94	98	121	< 1
19	MJCG-1 256.20 ~ 256.70 m	0.03	1.73	13	92	80	101	< 1
20	MJCG-1 259.00 ~ 259.50 m	< 0.01	2.74	13	80	72	101	< 1
21	MJCG-1 268.00 ~ 268.50 m	0.02	1.73	10	86	64	88	< 1
22	MJCG-1 270.30 ~ 270.80 m	< 0.01	1.87	10	85	67	127	< 1
23	MJCG-1 284.80 ~ 285.30 m	< 0.01	2.74	8	90	81	187	< 1
24	MJCG-1 293.70 ~ 294.20 m	0.01	1.87	10	97	97	180	< 1
25	MJCG-1 295.50 ~ 296.00 m	< 0.01	1.73	9	98	89	125	< 1
26	MJCG-1 298.50 ~ 299.00 m	0.04	3.31	12	126	94	115	< 1
27	MJCG-1 300.00 ~ 300.50 m	< 0.01	1.87	9	99	72	157	< 1
28	MJCG-1 306.30 ~ 306.80 m	< 0.01	1.86	11	89	98	459	< 1
29	MJCG-1 319.30 ~ 319.80 m	0.02	2.30	38	135	69	585	< 1
30	MJCG-1 322.50 ~ 323.00 m	< 0.01	2.73	38	136	91	254	< 1
31	MJCG-1 326.90 ~ 327.40 m	< 0.01	1.86	19	107	82	227	< 1
32	MJCG-1 330.00 ~ 330.50 m	0.02	2.01	27	121	49	513	< 1
33	MJCG-1 336.10 ~ 336.60 m	0.01	1.86	27	93	55	191	< 1
34	MJCG-1 338.25 ~ 338.75 m	0.01	2.01	75	93	65	137	< 1
35	MJCG-1 338.75 ~ 339.25 m	< 0.01	2.01	40	100	62	178	< 1
36	MJCG-1 384.00 ~ 384.50 m	< 0.01	2.15	79	118	78	166	< 1
37	MJCG-1 393.20 ~ 393.70 m	0.02	1.86	22	132	68	218	< 1
38	MJCG-1 399.00 ~ 399.50 m	< 0.01	2.30	81	137	90	147	< 1

No	Sample	Au (ppm)	Ag (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	S (ppm)	Mo (ppm)
1	MJCG-2 74.70 ～ 75.20 m	0.04	1.74	504	94	82	256	< 1
2	MJCG-2 78.50 ～ 79.00 m	0.02	1.44	71	92	44	215	< 1
3	MJCG-2 81.30 ～ 81.80 m	0.02	1.44	134	80	86	234	< 1
4	MJCG-2 89.85 ～ 90.35 m	0.05	1.89	120	95	68	291	< 1
5	MJCG-2 93.50 ～ 94.00 m	0.07	1.30	172	90	113	1390	1
6	MJCG-2 97.80 ～ 98.30 m	< 0.01	1.00	78	105	70	309	< 1
7	MJCG-2 130.50 ～ 131.00 m	0.05	5.71	367	388	2330	1250	< 1
8	MJCG-2 131.40 ～ 131.90 m	0.03	6.74	2920	125	1440	4460	1
9	MJCG-2 146.10 ～ 146.60 m	0.01	1.44	81	102	122	794	< 1
10	MJCG-2 151.30 ～ 151.80 m	0.02	19.5	262	1545	751	35700	< 1
11	MJCG-2 154.00 ～ 154.60 m	0.02	1.30	21	91	60	988	1
12	MJCG-2 160.00 ～ 160.50 m	0.03	1.59	49	85	53	462	1
13	MJCG-2 161.00 ～ 161.50 m	0.01	1.59	38	85	58	618	2
14	MJCG-2 169.00 ～ 169.50 m	< 0.01	4.09	1906	145	76	55600	4
15	MJCG-2 170.00 ～ 170.50 m	< 0.01	2.03	405	146	343	3250	2
16	MJCG-2 171.85 ～ 172.35 m	0.01	1.59	55	101	57	414	1
17	MJCG-2 175.50 ～ 176.00 m	< 0.01	1.74	98	116	103	1240	2
18	MJCG-2 176.00 ～ 176.50 m	< 0.01	2.62	399	103	153	1440	2
19	MJCG-2 179.00 ～ 179.50 m	0.07	36.0	17500	261	591	17900	27
20	MJCG-2 183.80 ～ 184.30 m	0.03	1.74	133	84	67	486	2
21	MJCG-2 209.80 ～ 210.30 m	< 0.01	1.73	83	90	59	444	< 1
22	MJCG-2 217.90 ～ 218.40 m	0.03	3.34	612	140	281	712	2
23	MJCG-2 222.90 ～ 223.40 m	0.01	2.02	196	101	82	674	15
24	MJCG-2 233.10 ～ 233.60 m	0.02	1.73	67	81	58	438	< 1
25	MJCG-2 249.00 ～ 249.50 m	0.02	7.42	5220	805	793	5980	16
26	MJCG-2 253.00 ～ 253.50 m	0.02	1.73	55	90	58	626	< 1
27	MJCG-2 263.15 ～ 263.65 m	0.03	1.59	66	74	56	502	1
28	MJCG-2 271.70 ～ 272.20 m	< 0.01	1.59	51	77	59	615	1
29	MJCG-2 285.10 ～ 285.60 m	< 0.01	1.59	46	84	62	345	2
30	MJCG-2 292.65 ～ 293.15 m	< 0.01	1.88	176	92	71	602	< 1
31	MJCG-2 293.65 ～ 294.15 m	0.09	33.8	18800	2390	6930	20370	7
32	MJCG-2 294.70 ～ 295.20 m	< 0.01	1.88	92	93	64	458	1
33	MJCG-2 296.10 ～ 296.60 m	0.05	2.32	96	98	68	600	1

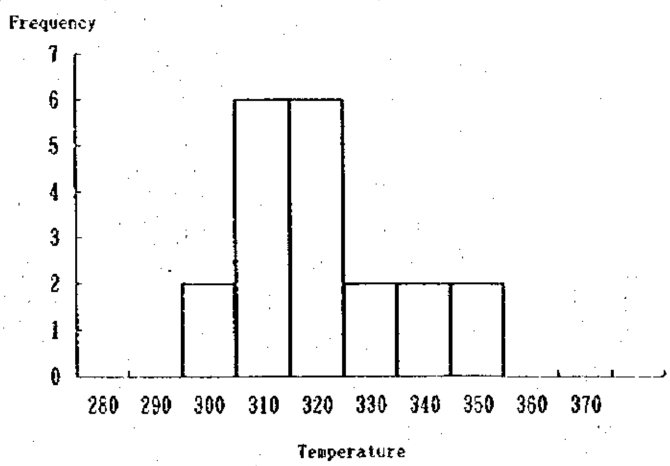
Table Ⅱ－5 Result of measurement of homogenization temperature and salinity of fluid inclusion (1)

MJCG-1 134.30m

Secondary inclusions are also observed.

No	Mineral	Size (mμ)	Volume ratio (%)	Form	Tempe-rature (℃)	Melting Temp (℃)	NaCl Wt (%)
1	Quartz	137.5	15	irr	320	-10.7	14.67
2	Quartz	30.0	13	po	311	0.0	0.00
3	Quartz	10.0	13	po	320	0.0	0.00
4	Quartz	7.5	12	po	329	—	—
5	Quartz	15.0	17	sq	355	—	—
6	Quartz	5.0	15	sq	342	—	—
7	Quartz	12.5	12	po	306	—	—
8	Quartz	10.0	13	po	313	—	—
9	Quartz	25.0	15	po	312	0.0	0.00
10	Quartz	27.0	13	po	316	-2.8	4.65
11	Quartz	35.0	15	po	336	0.0	0.00
12	Quartz	22.5	12	tu	308	0.0	0.00
13	Quartz	20.0	20	po	310	0.0	0.00
14	Quartz	50.0	15	irr	341	0.0	0.00
15	Quartz	17.5	15	po	323	0.0	0.00
16	Quartz	25.0	20	po	352	0.0	0.00
17	Quartz	10.0	13	po	324	—	—
18	Quartz	5.0	12	po	314	—	—
19	Quartz	17.5	13	po	331	0.0	0.00
20	Quartz	22.5	15	po	321	0.0	0.00

eg: Egg-shaped ir.:Irregular po :Polygon sq:square tr:Triangular tu:Tubal wg:Wedge-shapec



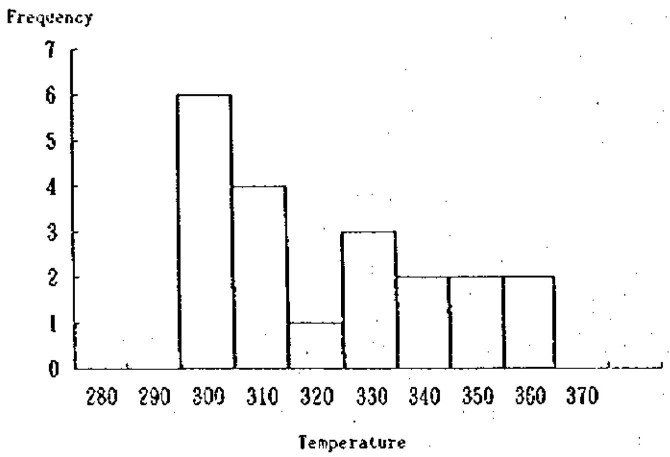
Mineral	Quartz
Number	20
Maximum	355 ℃
Minimum	306 ℃
Average	324.2 ℃
St. diviation	14.1

Table II -- 5 Result of measurement of homogenization temperature and salinity of fluid inclusion (2)

MJCG-1 196.35m Secondary inclusions are also observed.

No	Mineral	Size (mμ)	Volume ratio (%)	Form	Temperature (℃)	Melting Temp (℃)	NaCl Wt (%)
1	Quartz	27.5	15	po	363	-7.5	11.10
2	Quartz	25.0	13	po	334	-7.7	11.34
3	Quartz	22.5	15	po	349	-7.7	11.34
4	Quartz	5.0	13	sq	342	—	—
5	Quartz	7.5	12	po	353	—	—
6	Quartz	10.0	13	po	360	-7.3	10.86
7	Quartz	17.5	10	po	304	-7.7	11.34
8	Quartz	7.5	12	po	309	—	—
9	Quartz	7.5	15	po	316	—	—
10	Quartz	7.5	13	po	314	—	—
11	Quartz	22.5	15	irr	303	-7.4	10.98
12	Quartz	20.0	15	irr	308	-7.2	10.73
13	Quartz	17.5	17	po	335	-7.7	11.34
14	Quartz	12.5	15	po	351	-7.6	11.22
15	Quartz	7.5	12	po	322	—	—
16	Quartz	5.0	12	po	308	—	—
17	Quartz	2.5	10	eg	331	—	—
18	Quartz	12.5	13	irr	311	-7.7	10.34
19	Quartz	12.5	12	irr	309	-7.5	11.10
20	Quartz	5.0	12	po	317	—	—

eg: Egg-shaped ir.:Irregular po :Polygon sq:square tr:Triangular tu:Tubal wg:Wedge-shaped



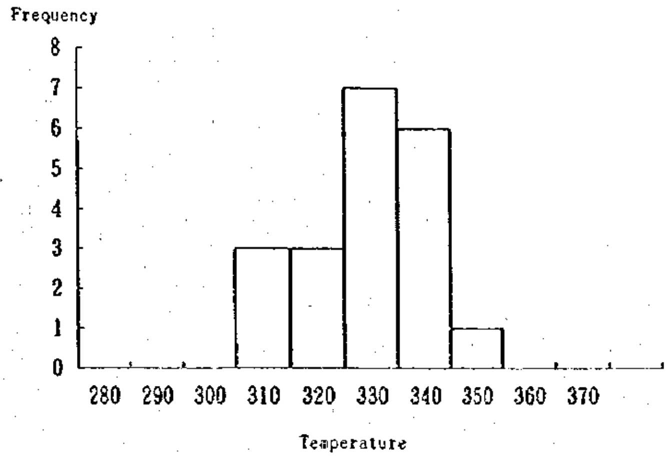
Mineral	Quartz
Number	20
Maximum	363 ℃
Minimum	303 ℃
Average	327.0 ℃
St. diviation	19.5

Table Ⅱ－5 Result of measurement of homogenization temperature and salinity of fluid inclusion (3)

MJCG-1 227.60m   Secondary inclusions are also observed.

No	Mineral	Size (mμ)	Volume ratio (%)	Form	Tempe-rature (℃)	Melting Temp (℃)	NaCl Wt (%)
1	Quartz	17.5	20	po	339	0.0	0.00
2	Quartz	10.0	20	po	346	—	—
3	Quartz	20.0	15	po	337	0.0	0.00
4	Quartz	37.5	15	po	339	0.0	0.00
5	Quartz	20.0	12	irr	323	0.0	0.00
6	Quartz	17.5	15	po	345	-0.1	0.18
7	Quartz	5.0	12	po	331	—	—
8	Quartz	5.0	15	po	348	—	—
9	Quartz	5.0	13	po	352	—	—
10	Quartz	17.5	15	irr	330	0.0	0.00
11	Quartz	17.5	13	irr	318	0.0	0.00
12	Quartz	20.0	20	po	342	0.0	0.00
13	Quartz	15.0	20	po	341	-0.1	0.18
14	Quartz	5.0	12	tr	320	—	—
15	Quartz	7.5	12	po	317	—	—
16	Quartz	5.0	15	po	333	—	—
17	Quartz	20.0	17	irr	341	0.0	0.00
18	Quartz	22.5	13	irr	322	0.0	0.00
19	Quartz	17.5	12	po	335	0.0	0.00
20	Quartz	10.0	12	po	314	0.0	0.00

eg: Egg-shaped ir.:Irregular po :Polygon sq:square tr:Triangular tu:Tubal wg:Wedge-shaped



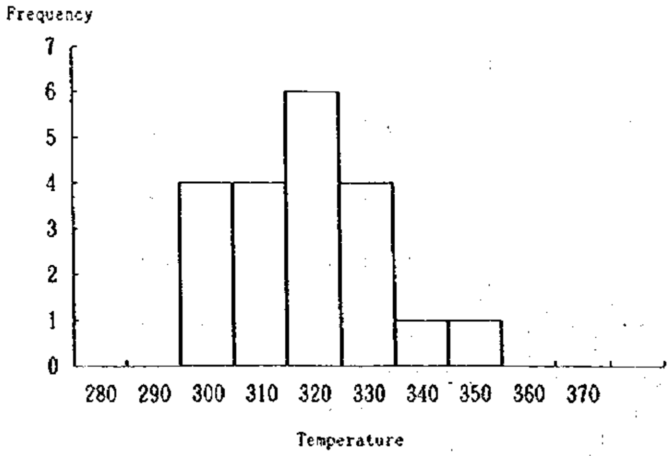
Mineral	Quartz
Number	20
Maximum	352 ℃
Minimum	314 ℃
Average	333.7 ℃
St. diviation	11.0

Table II −5 Result of measurement of homogenization temperature and salinity of fluid inclusion (4)

MJCG-2 131.20m

No	Mineral	Size (mμ)	Volume ratio (%)	Form	Temperature (℃)	Melting Temp (℃)	NaCl Wt (%)
1	Quartz	35.0	30	po	323	-7.2	10.73
2	Quartz	42.5	25	po	339	-7.0	10.49
3	Quartz	10.0	13	po	318	-7.2	10.73
4	Quartz	10.0	12	po	324	-7.2	10.73
5	Quartz	45.0	13	po	309	-7.1	10.61
6	Quartz	7.5	15	po	327	—	—
7	Quartz	5.0	20	po	341	—	—
8	Quartz	5.0	15	po	321	—	—
9	Quartz	15.0	15	irr	310	-7.1	10.61
10	Quartz	7.5	17	po	317	-7.3	10.86
11	Quartz	7.5	15	po	324	—	—
12	Quartz	27.5	13	irr	332	-6.9	10.36
13	Quartz	20.0	15	po	331	-7.2	10.73
14	Quartz	10.0	17	po	352	—	—
15	Quartz	7.5	12	po	304	—	—
16	Quartz	7.5	13	sq	338	—	—
17	Quartz	30.0	15	po	325	-7.1	10.61
18	Quartz	25.0	15	po	317	-7.0	10.49
19	Quartz	22.5	13	po	307	-7.1	10.61
20	Quartz	10.0	12	po	302	—	—

eg: Egg-shaped ir: Irregular po: Polygon sq: square tr: Triangular tu: Tubal wg: Wedge-shaped



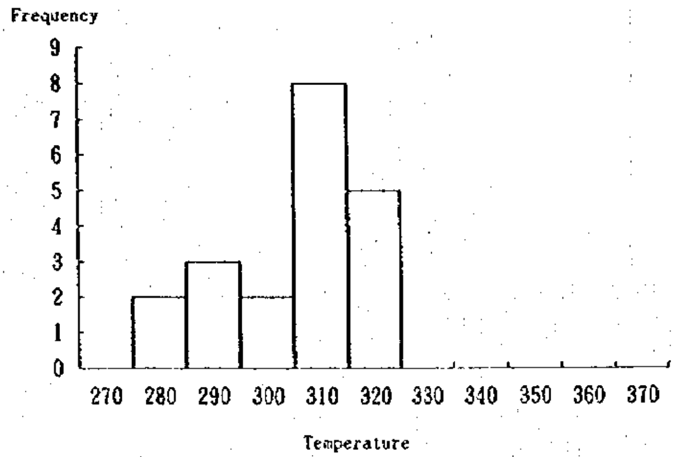
Mineral	Quartz
Number	20
Maximum	352 ℃
Minimum	302 ℃
Average	323.1 ℃
St. diviation	12.9

Table II —5 Result of measurement of homogenization temperature and salinity of fluid inclusion (5)

MJCG-2 146.65m

No	Mineral	Size (mμ)	Volume ratio (%)	Form	Tempe-rature (℃)	Melting Temp (℃)	NaCl Wt (%)
1	Quartz	37.5	13	irr	288	-7.1	10.61
2	Quartz	7.5	10	po	286	-6.8	10.24
3	Quartz	5.0	10	sq	319	-6.6	9.98
4	Quartz	10.0	10	wg	322	-6.6	9.98
5	Quartz	7.5	10	po	327	-6.5	9.86
6	Quartz	2.5	10	eg	297	—	—
7	Quartz	10.0	12	po	294	-6.6	9.98
8	Quartz	10.0	10	po	292	-6.4	9.37
9	Quartz	12.5	13	po	302	—	—
10	Quartz	15.0	12	po	327	—	—
11	Quartz	20.0	15	po	325	-6.8	10.24
12	Quartz	12.5	10	irr	308	-7.1	10.61
13	Quartz	15.0	12	po	314	-6.9	10.36
14	Quartz	10.0	12	sq	317	-6.4	9.73
15	Quartz	20.0	20	po	327	-6.5	9.86
16	Quartz	15.0	15	po	314	-6.6	9.98
17	Quartz	12.5	12	po	312	-6.6	9.98
18	Quartz	12.5	13	wg	319	-6.4	9.73
19	Quartz	7.5	13	po	316	-6.6	9.98
20	Quartz	17.5	12	irr	311	-6.6	9.98

eg: Egg-shaped ir: :Irregular po :Polygon sq:square tr:Triangular tu:Tubal wg:Wedge-shapec



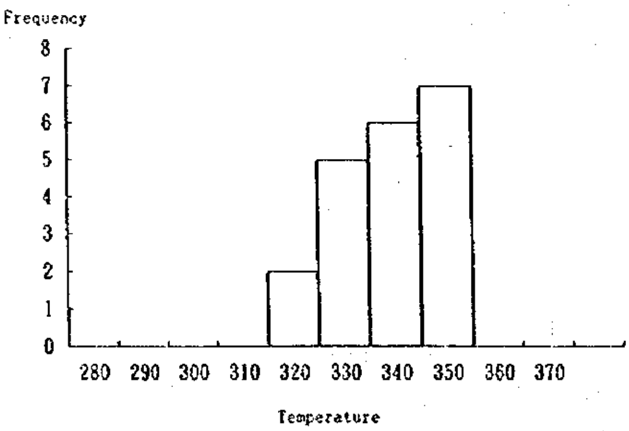
Mineral	Quartz
Number	20
Maximum	327 ℃
Minimum	286 ℃
Average	310.9 ℃
St. diviation	13.0

Table II－5 Result of measurement of homogenization temperature and salinity of fluid inclusion (6)

MJCG-2 151.60m

No	Mineral	Size (mμ)	Volume ratio (%)	Form	Tempe-rature (℃)	Melting Temp (℃)	NaCl Wt (%)
1	Quartz	127.5	15	irr	352	-7.4	10.98
2	Quartz	25.0	15	po	348	-7.2	10.73
3	Quartz	32.5	12	irr	332	-7.2	10.73
4	Quartz	5.0	10	eg	336	-7.1	10.61
5	Quartz	80.0	12	irr	357	-7.2	10.73
6	Quartz	15.0	17	po	355	-7.3	10.86
7	Quartz	12.5	12	po	342	-7.2	10.73
8	Quartz	35.0	20	po	353	-6.9	10.36
9	Quartz	7.5	12	po	341	—	—
10	Quartz	7.5	10	po	331	—	—
11	Quartz	22.5	17	irr	355	-7.0	10.49
12	Quartz	17.5	15	irr	344	-7.3	10.86
13	Quartz	5.0	13	po	356	-7.0	10.49
14	Quartz	37.5	15	irr	339	-7.2	10.73
15	Quartz	7.5	13	po	342	—	—
16	Quartz	17.5	15	irr	327	-6.8	10.24
17	Quartz	10.0	12	po	338	—	—
18	Quartz	22.5	15	irr	355	-7.1	10.61
19	Quartz	10.0	12	po	322	-7.2	10.73
20	Quartz	5.0	12	po	346	—	—

eg: Egg-shaped ir :Irregular po :Polygon sq:square tr:Triangular tu:Tubal wg:Wedge-shapec



Mineral	Quartz
Number	20
Maximum	357 ℃
Minimum	322 ℃
Average	343.6 ℃
St. diviation	10.2

Table II − 7 Result of measurement of Hole deviation

(*Declination of needle : 2°04′09″ E)　　MJCG−1 [E, -60°, 400.0m]

Point of Photo. (m)	length of sectio (m)	Result: Magnetic direction	Result: True direction	Dip	Vertical depth: (Section) (m)	Vertical depth: (Level) (-mL)	Direction of bit: Section(m)	Direction of bit: Total(m)	N→S: Section(m)	N→S: Total(m)	E→W: Section(m)	E→W: Total(m)
0	0	N88°E	E	-60°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	50	N84°E	N86°E	-62°	43.73	-43.73	24.23	24.23	-0.85	-0.85	-24.21	-24.21
100	50	N81°E	N83°E	-60°	43.73	-87.46	24.23	48.45	-2.32	-3.17	-24.11	-48.33
150	50	N79°E	N81°E	-63°	43.94	-131.40	23.83	72.28	-3.32	-6.48	-23.59	-71.92
200	50	N78°E	N80°E	-64°	44.75	-176.15	22.31	94.58	-3.68	-10.16	-22.00	-93.92
250	50	N77°E	N79°E	-64°	44.94	-221.09	21.92	116.50	-3.99	-14.16	-21.56	-115.47
300	50	N77°E	N79°E	-65°	45.13	-266.22	21.52	138.02	-4.11	-18.27	-21.13	-136.60
350	50	N77°E	N79°E	-64°	45.13	-311.35	21.52	159.55	-4.11	-22.37	-21.13	-157.72
400	50	N76°E	N78°E	-65°	45.13	-356.48	21.52	181.07	-4.29	-26.66	-21.09	-178.81
= PLAN =												
400	---	N88°E	E	-60°	---	-346.41	---	200.00	---	0.00	---	200.00

(*Declination of needle : 2°04′09″ E)　　MJCG−2 [N20E, -60°, 300.0m]

Point of Photo. (m)	length of sectio (m)	Result: Magnetic direction	Result: True direction	Dip	Vertical depth: (Section) (m)	Vertical depth: (Level) (-mL)	Direction of bit: Section(m)	Direction of bit: Total(m)	N→S: Section(m)	N→S: Total(m)	E→W: Section(m)	E→W: Total(m)
0	0	N18°E	N20°E	-60°	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	50	N14°E	N16°E	-64°	44.15	-44.15	23.36	23.36	-22.27	-22.27	-7.24	-7.24
100	50	N11°E	N13°E	-66°	45.32	-89.46	21.11	44.46	-20.45	-42.72	-5.29	-12.52
150	50	N08°E	N10°E	-66°	45.68	-135.14	20.34	64.80	-19.93	-62.64	-4.05	-16.58
200	50	N04°E	N06°E	-68°	46.03	-181.17	19.51	84.31	-19.33	-81.98	-2.72	-19.30
250	50	N01°E	N02°E	-69°	46.52	-227.69	18.32	102.63	-18.28	-100.26	-1.28	-20.57
300	50	N05°W	N03°W	-71°	46.98	-274.67	17.08	119.71	-17.09	-117.35	0.15	-20.42
= PLAN =												
300	---	N18°E	N20°E	-60°	---	-259.81	---	150.00	---	-140.95	---	-51.30

Table II-8 Drilling Schedule

ITEM	OCTOBER	NOVEMBER	DECEMBER
Repairing road		9 ——	········
Mobilization to La Guanaca		11 —13	
MJCG-1 Rig up			3-4
MJCG-1 Drilling			4 —— 20
MJCG-1 Tear down			20-22
MJCG-2 Rig up		13-14	
MJCG-2 Drilling		18 ——	2
MJCG-2 Tear down			-3

Table II-9 Drilling Summary (MJCG-1)

WORKING PERIOD

CLASS	WORKING PERIOD	DAY BREAK DOWN			WORKERS
	PERIOD	TOTAL DAYS	ACTUAL WORKING	DAY OFF	
RIG UP	97/12/03 ～ 97/12/04	2 days	2 days	0 days	8 workers
DRILLING	97/12/04 ～ 97/12/20	22	DRILLING 20	0	170 workers
			REPAIR 2	0	0 workers
TEAR DOWN	97/12/20 ～ 97/12/22	5	5	0	20 workers
TOTAL	97/12/03 ～ 97/12/22	29	31	0	198 workers

DRILLING DEPTH etc.

PROPOSED DEPTH	400.00 m	OVERBURDEN	m
ADDILIONAL DEPTH	0.00 m	CORE LENGTH	390.58 m
INSPECTED DEPTH	400.00 m	RECOVERY	97.6 %

TIME ANALYSYS

CATEGORY	(hr.)	(%)	(%)
DRILLNG	188.5	35	31.0
TRIP,CORE RECOVER etc.	283.5	53	46.6
REPAIR,FISHING	0	0	0.0
WATER SUPPLY	57	11	9.4
SUB-TOTAL	529	100.0	86.9
RIG UP	35		5.8
TEAR DOWN	42		6.9
TOTAL	606		99.6

CASING

SIZE	SET DEPTH (m)	B/A×100 (%)	RECOVERY (%)
HW	102.00	25.50	100
NW			
BW			

CORE RECOVERY PER EACH 100m

DEPTH (m)			CORE LENGTH (m)	CORE RECOVERY(%) SECTION	CUMULATIVE
0.00	～	102.00	94.60	92.7	92.7
102.00	～	230.15	126.3	98.6	96.0
230.15	～	332.10	101.83	99.9	97.2
332.10	～	400.00	67.85	99.9	97.6

TOTAL DEPTH/TOTAL WORKING DAYS	18.18 m/day
TOTAL DEPTH/ACTUL WORKING DAYS	18.18 m/day
TOATL DEPTH/ACTUL DRILLING DAYS	20.00 m/day
ACTUAL DRLLING WORKERS/TOTAL DEPTH	0.43 workers/day

REMARKS

A: TOTAL DEPTH

B: SET DEPTH

Table Ⅱ-10 List of Drilling Equipment and Consumption Goods

ITEM	SPECIFICATION	QUANTITY		COMMENT
		MJCG-1	MJCG-2	
Drilling Machine	CS3000	1	1	
Drilling rod HQ	3.05m	34	34	
Drilling rod NQ	3.05m	131	99	
Outer tube	HQ	1	1	
Inner tube	HQ			
Inner tube	NQ	1	1	
Inner tube	BQ			
Inner tube head	HQ	2	2	
Inner tube head	NQ			
Inner tube head	BQ			
Overshot	HQ	1	1	
Overshot	NQ			
Wireline rope	6mm	500	400	
Casing pipe(HW)	3.05m	34	34	
Casing pipe(NW)	3.05m			
Casing pipe(BW)	3.05m			
Core lifter case	HQ			
Core lifter case	NQ	5	5	
Core lifter case	BQ			
Bentonite		3100	2400	kg
Cement		550	350	kg
Light oil		5500	4100	l
Engine oil		90	70	l
Gear oil		30	20	l
Hydraulic oil		60	40	
Core box	3-4m	134	89	

PREFACE

In response to the request by the Government of Republic of Chile, the Japanese Government decided to conduct a Mineral Exploration Project in Guanaca・Cholqui Area Project and entrusted the Survey to the Japan International Corporation Agency(JICA) and Metal Mining Agency of Japan(MMAJ).

The JICA and MMAJ sent to Chile a survey team headed by Mr.Jun-ichi Ishikawa from 21 October to 30 December, 1997.

The team exchanged views with the officials concerned of the Government of Chile and conducted a field survey in the Guanaca-Cholqui area. After they returned to Japan, further studies were made and the present report has been prepared.

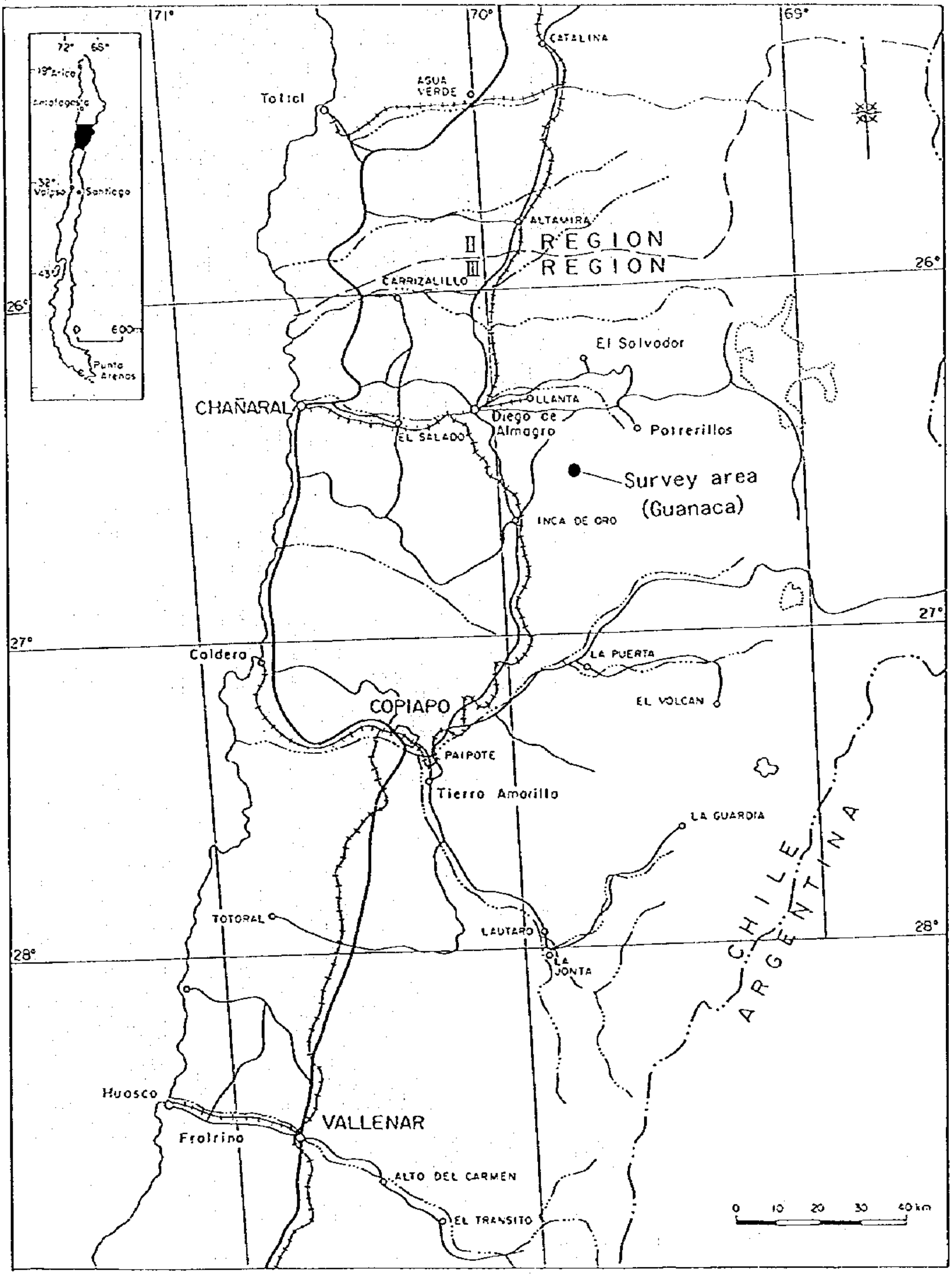
We hope that this report will serve for the development of the Project and contribute to the promotion of friendly relations between our two countries.

We wish to express our deep appreciation to the officials concerned of the Government of the Chile for their close corporation extend to the team.

February 1998

Kimio Fujita
President
Japan International Cooperation Agency

Hiroaki HIYAMA
President
Metal Mining Agency of Japan



Locality map of survey area

JICA