

Fig. 2-4-2 Sample Location Map of the Waimotu Area - 267 ~ 268 -

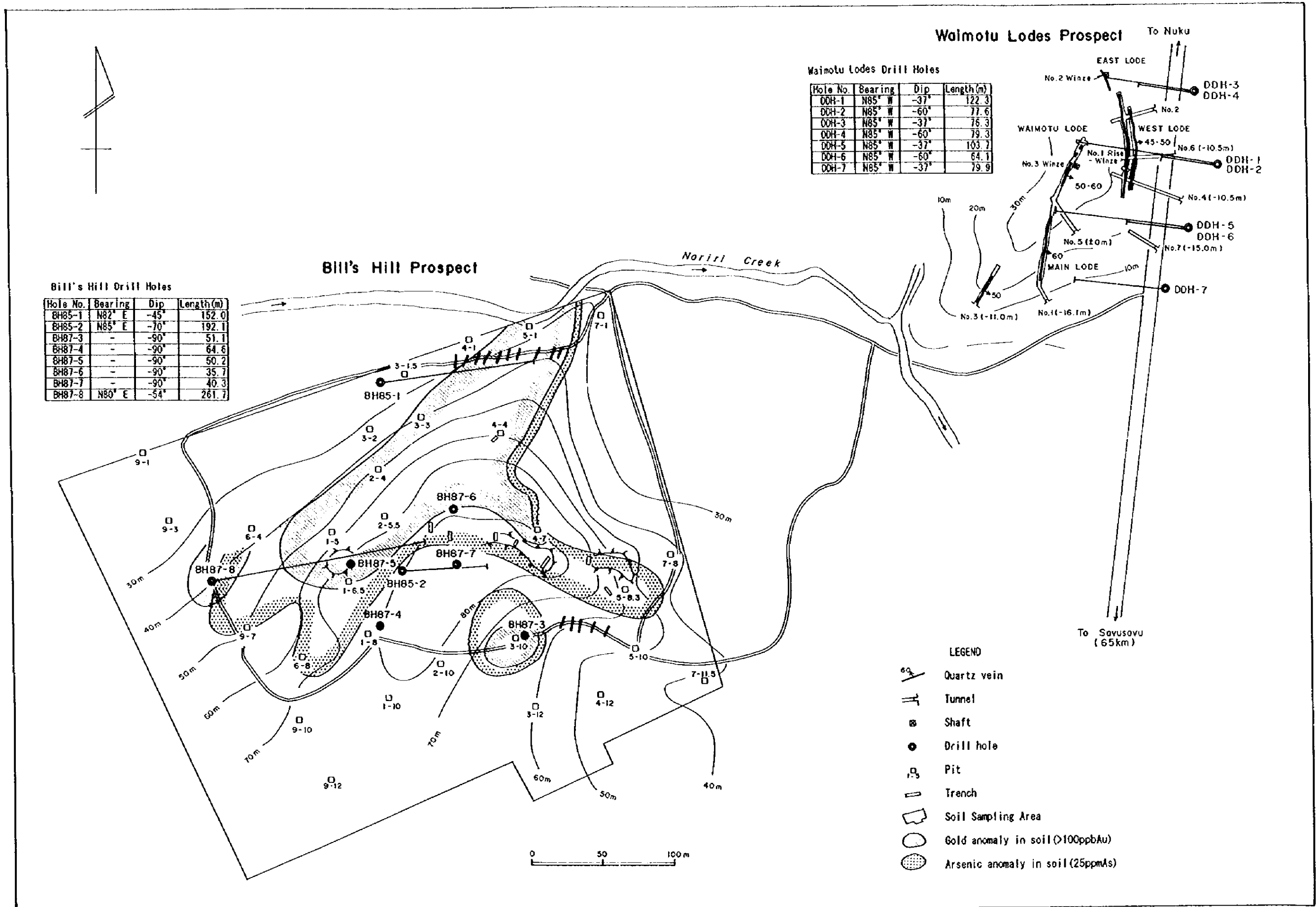


Fig. 2-4-3 Summary Map of Existing Data of the Waimotu Lodes and Bill's Hill Prospect

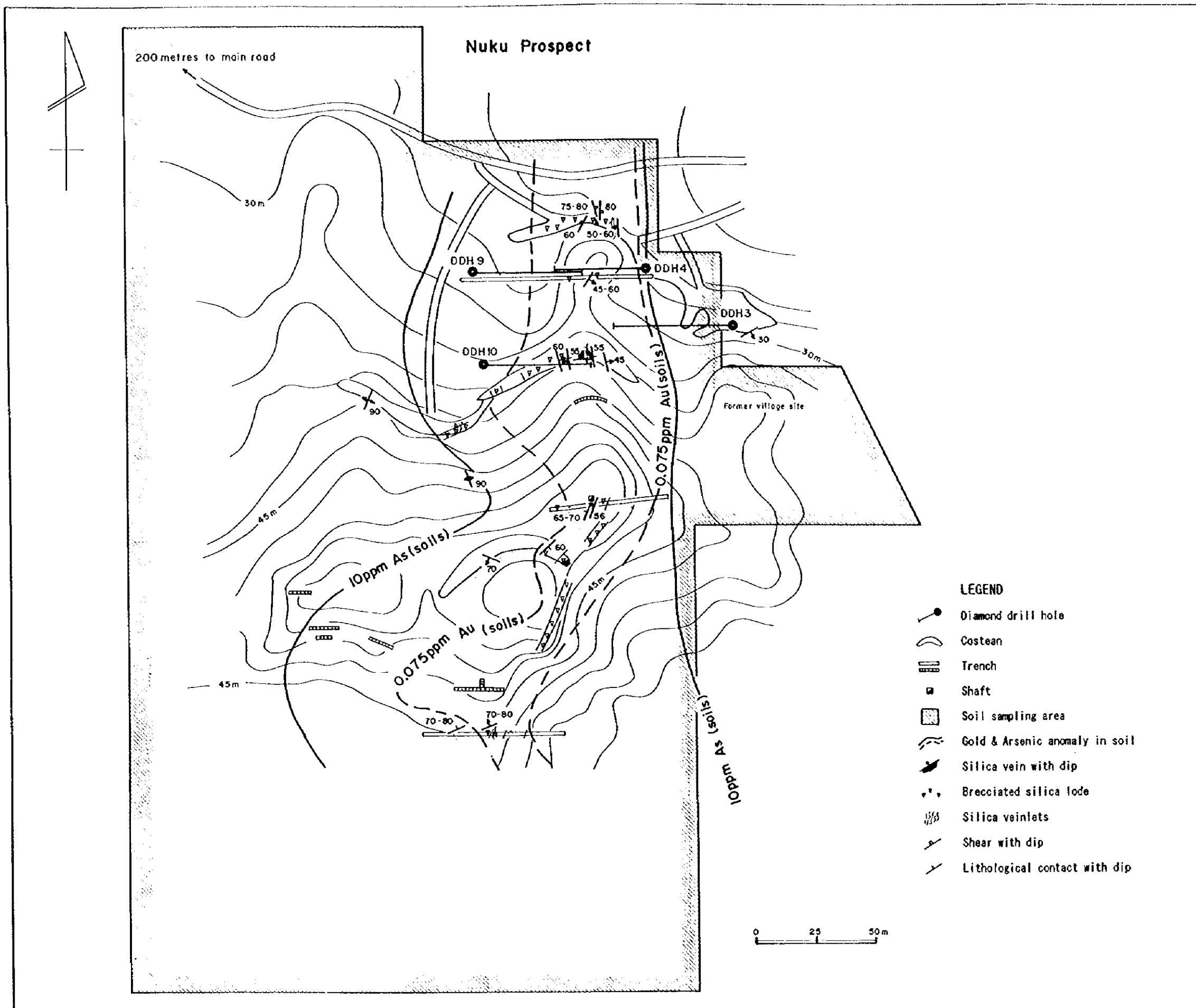


Fig. 2-4-4 Summary Map of Existing Data of the Nuku Prospect Area

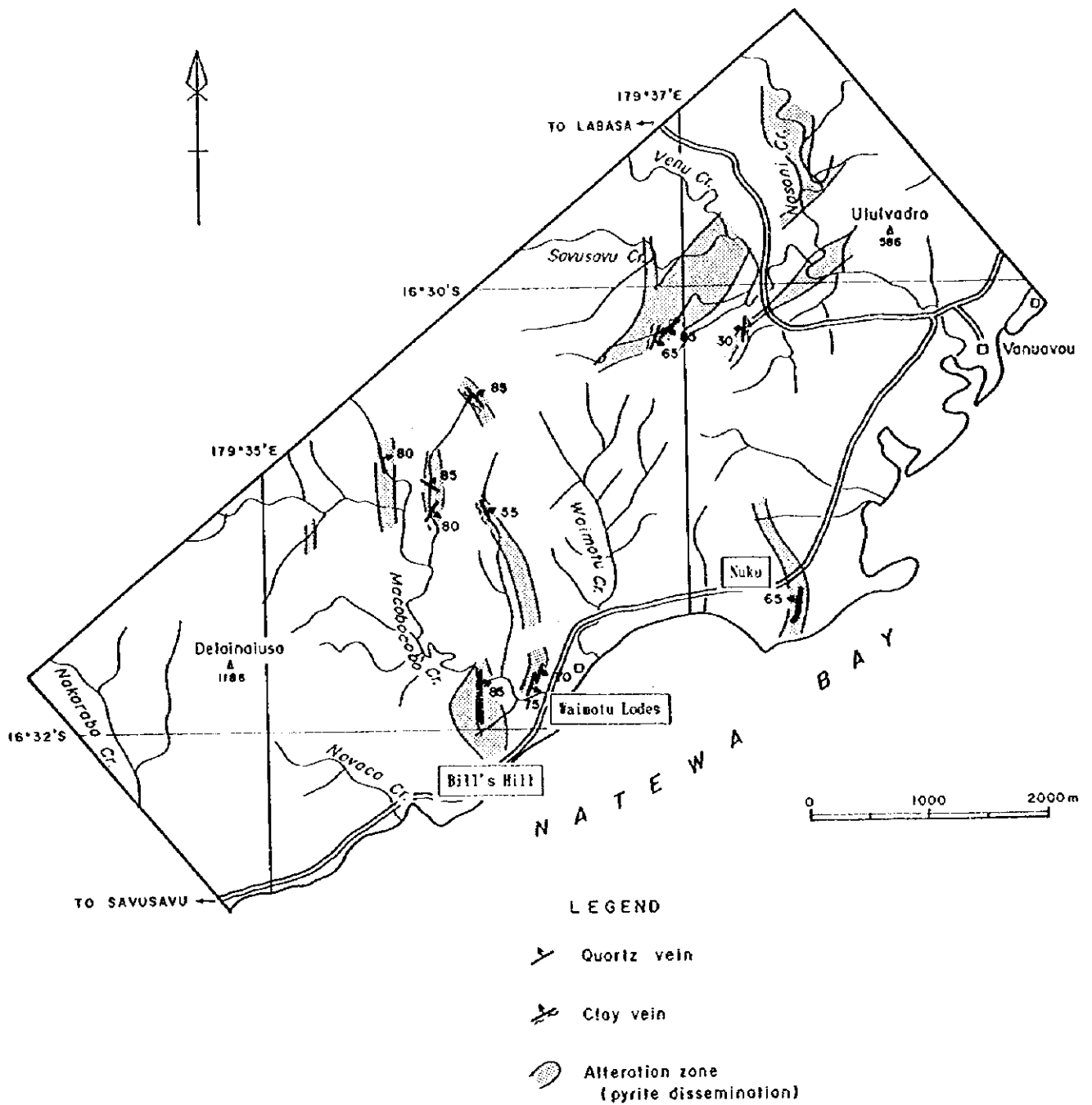


Fig. 2-4-5 Distribution Map of Prospects and Alteration Zones in the Waimotu Area



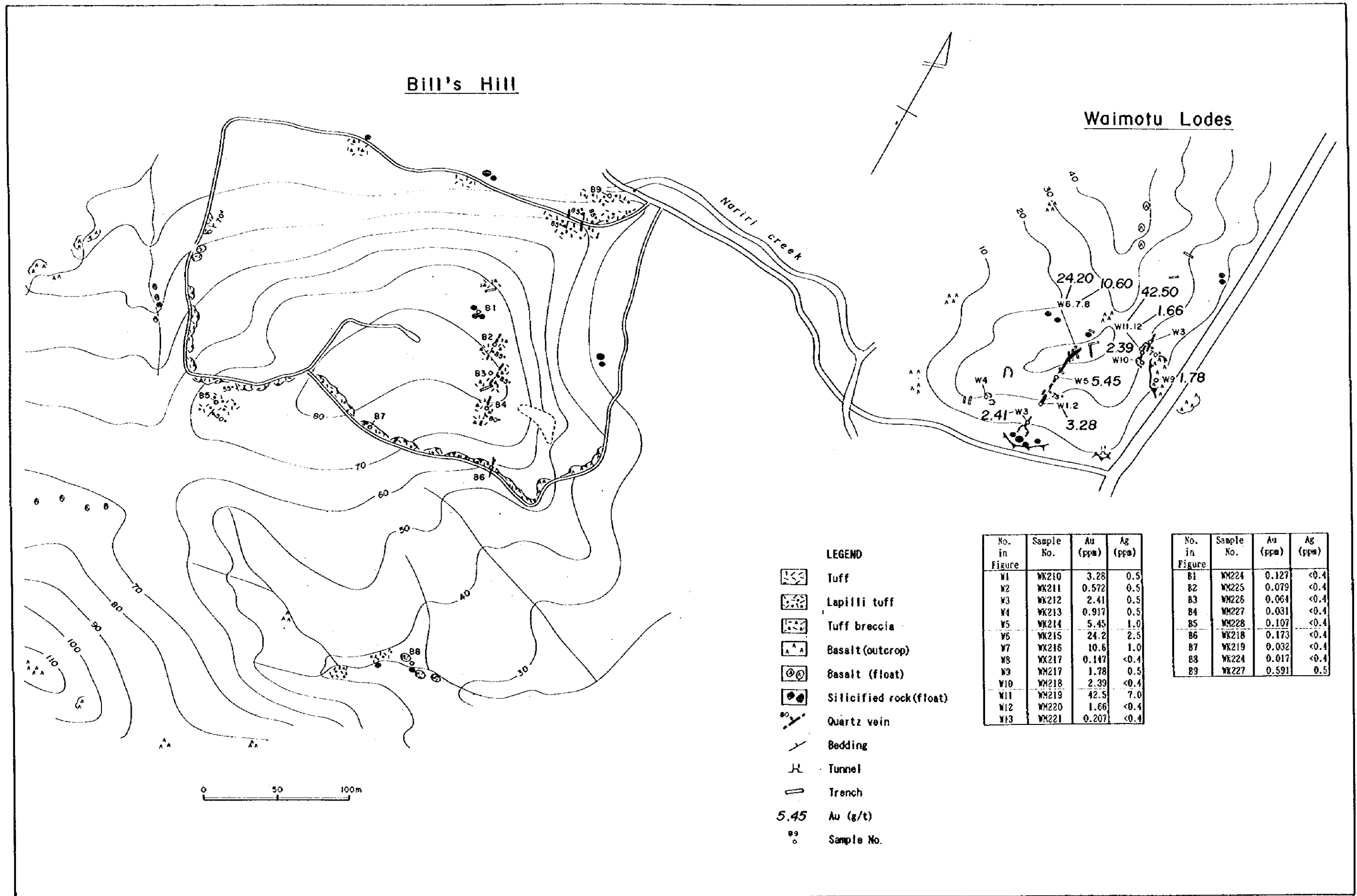


Fig. 2-4-6 Detailed Survey Results of the Waimotu Lodes and Bill's Hill Prospect

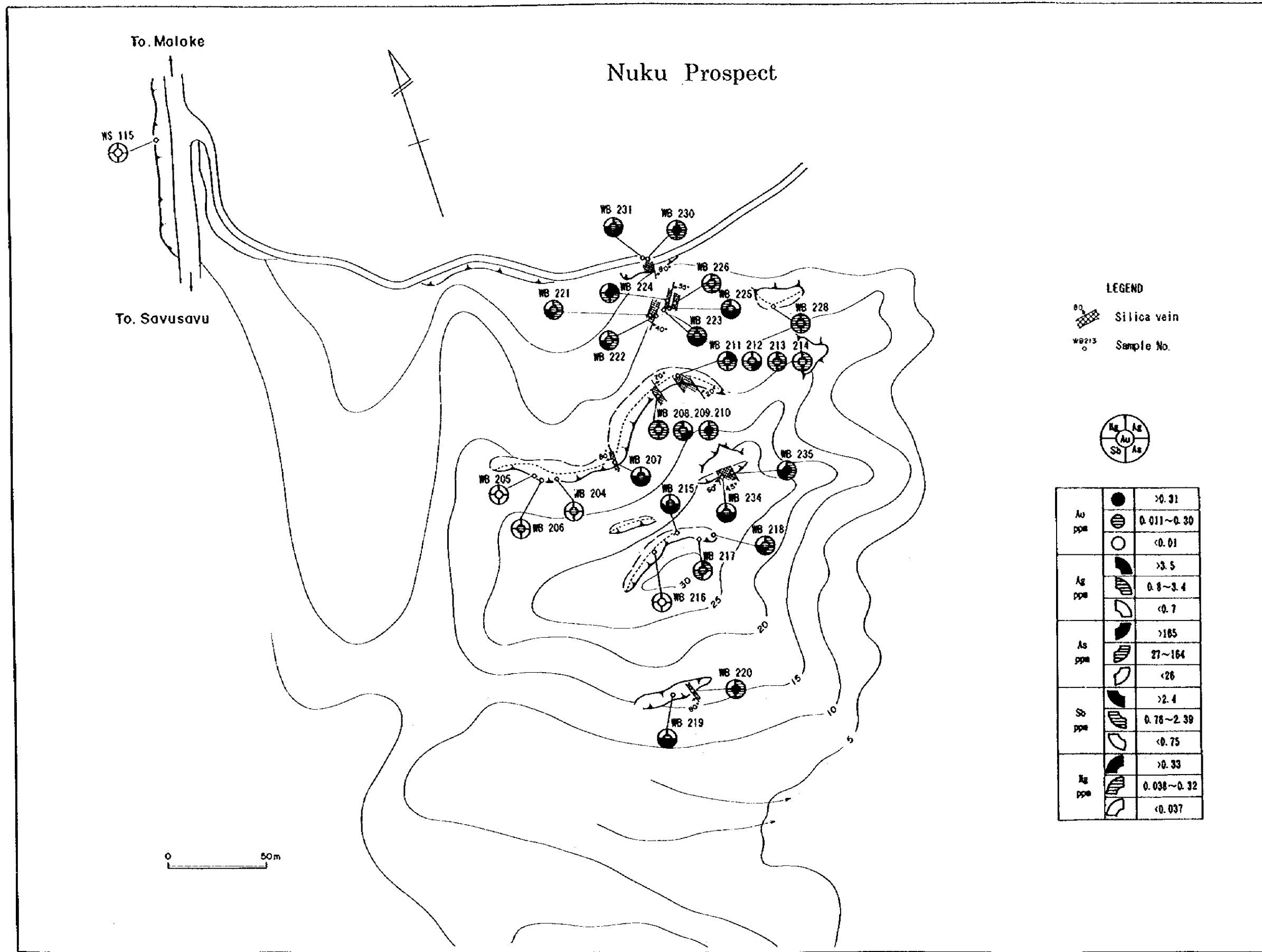


Fig. 2-4-7 Detailed Survey Results of the Nuku Prospect Area

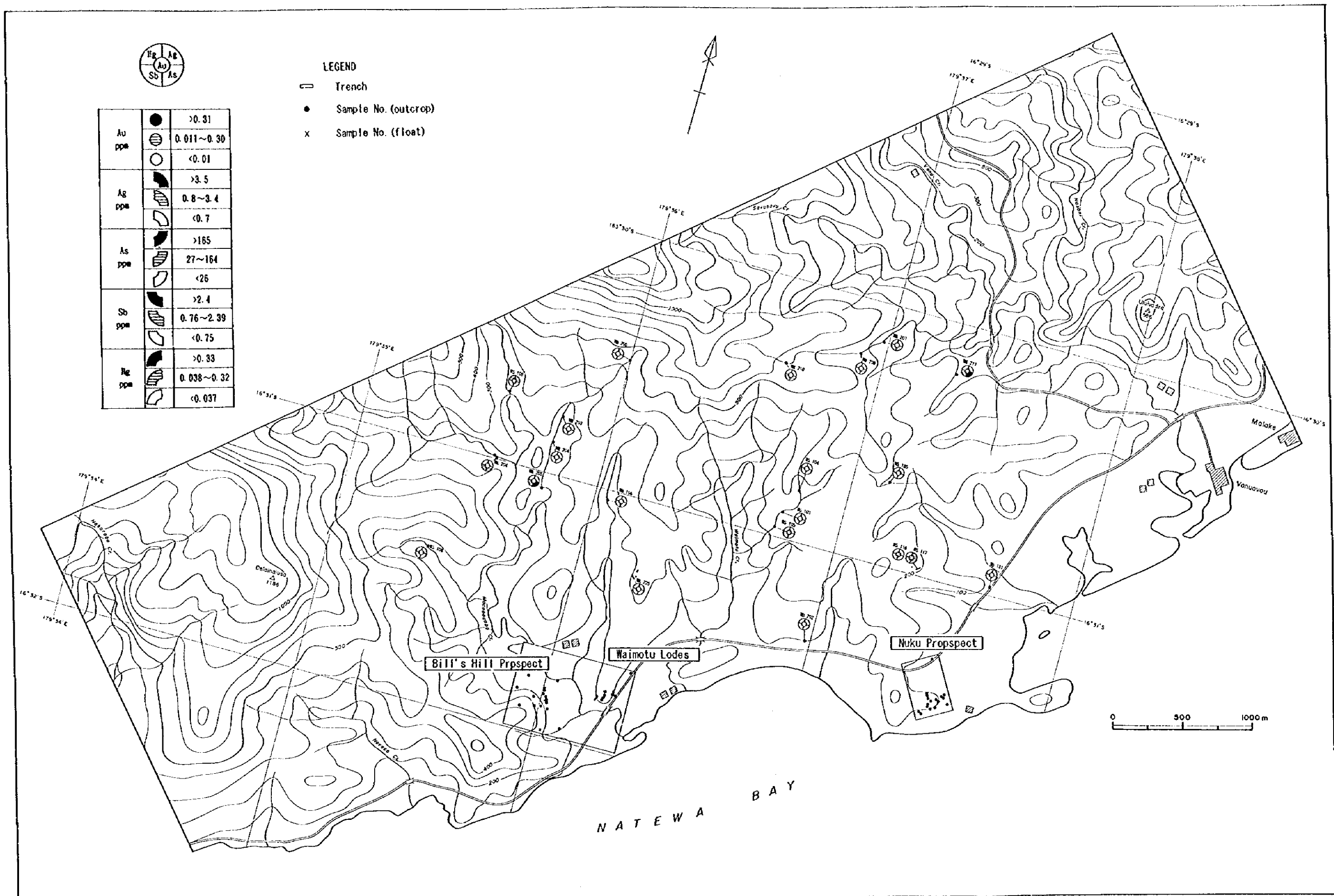


Fig. 2-4-8 Geochemical Survey Results of the Waimotu Area

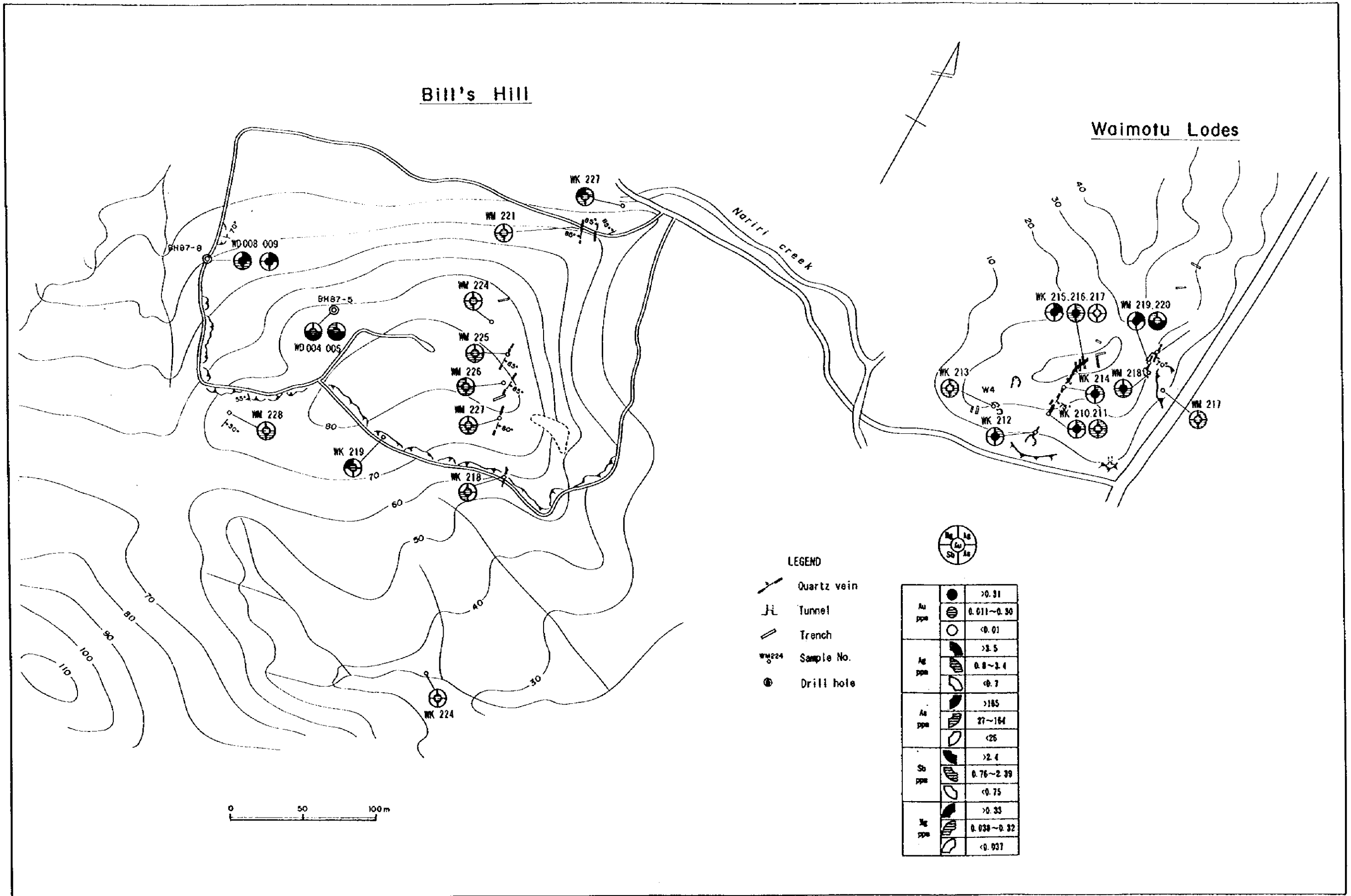


Fig. 2-4-9 Geochemical Survey Results of the Waimotu Lodes and Bill's Hill Prospect

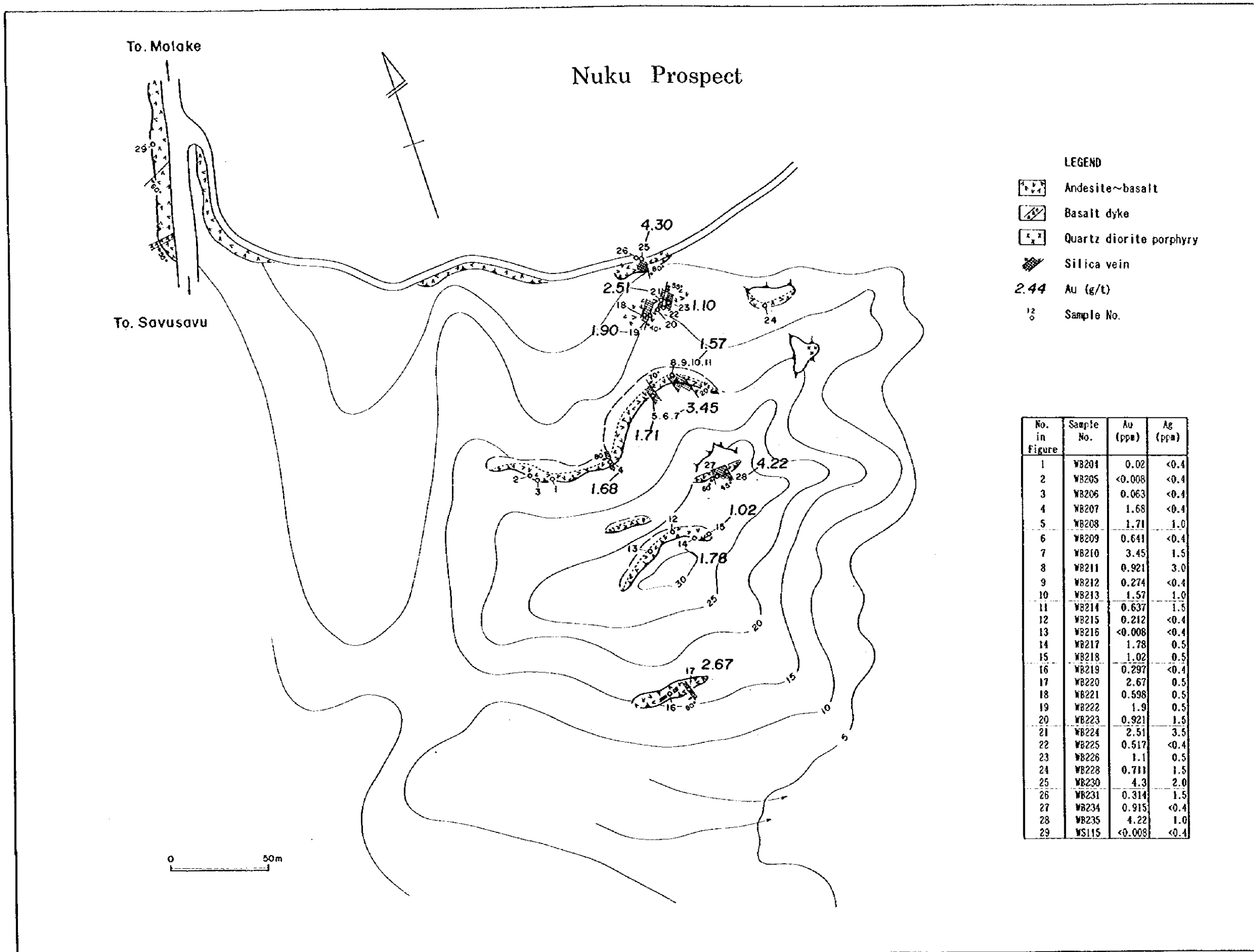
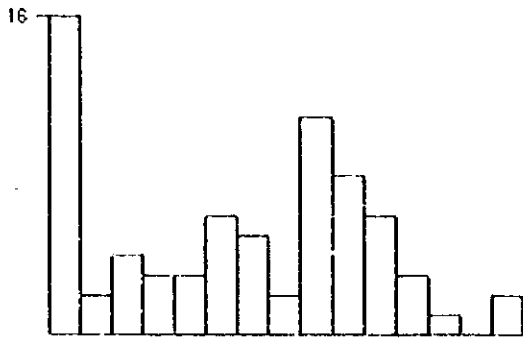
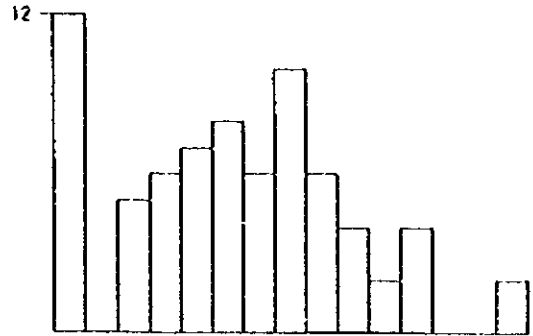


Fig. 2-4-10 Geochemical Survey Results of the Nuku Prospect Area

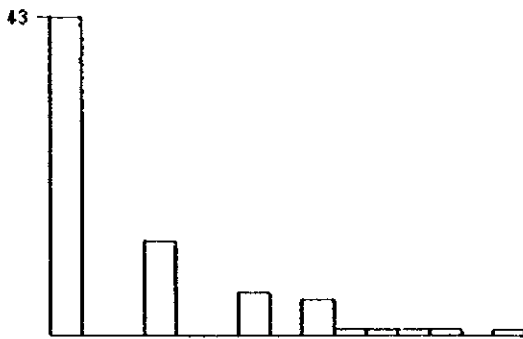
Au
 MEAN(M)= .156692
 STANDARD DEVIATION(σ)= 1.14397
 MINIMUM= .004 $M+\sigma$ = 2.18281
 MAXIMUM= 42.5 $M+2\sigma$ = 30.4079



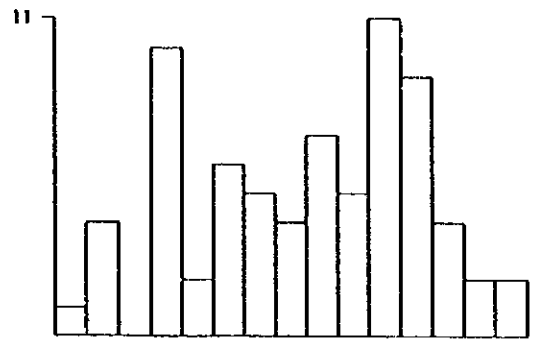
Hg
 MEAN(M)= .014362
 STANDARD DEVIATION(σ)= .495627
 MINIMUM= .0025 $M+\sigma$ = .0449616
 MAXIMUM= .257 $M+2\sigma$ = .140757



Ag
 MEAN(M)= .376759
 STANDARD DEVIATION(σ)= .391602
 MINIMUM= .2 $M+\sigma$ = .928251
 MAXIMUM= 7 $M+2\sigma$ = 2.28701



As
 MEAN(M)= 18.5797
 STANDARD DEVIATION(σ)= .719047
 MINIMUM= .5 $M+\sigma$ = 97.2937
 MAXIMUM= 460 $M+2\sigma$ = 509.485



Sb
 MEAN(M)= .656245
 STANDARD DEVIATION(σ)= .314184
 MINIMUM= .25 $M+\sigma$ = 1.35265
 MAXIMUM= 2.4 $M+2\sigma$ = 2.78891

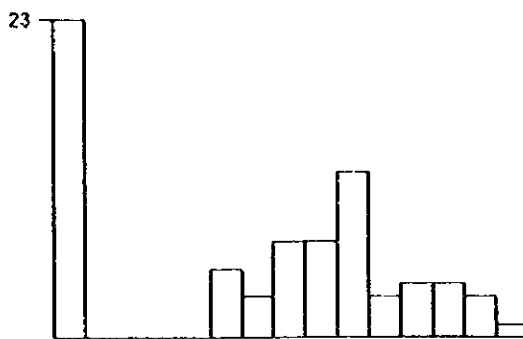


Fig. 2-4-11 Histogram of Assay Values(the Waimotu Area)

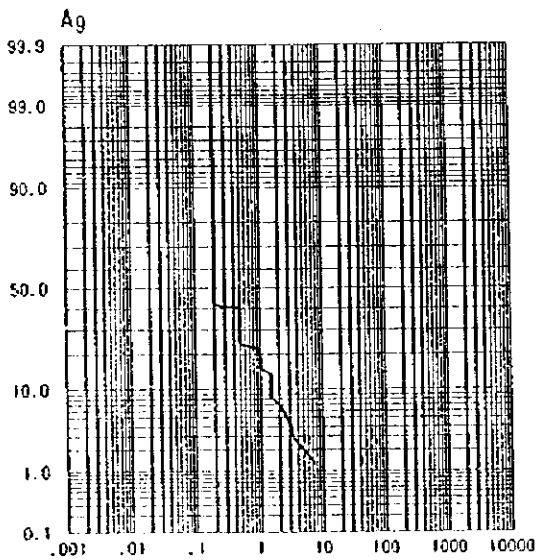
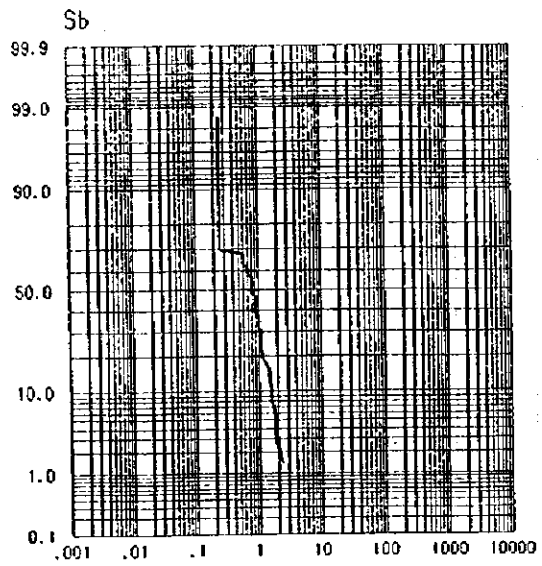
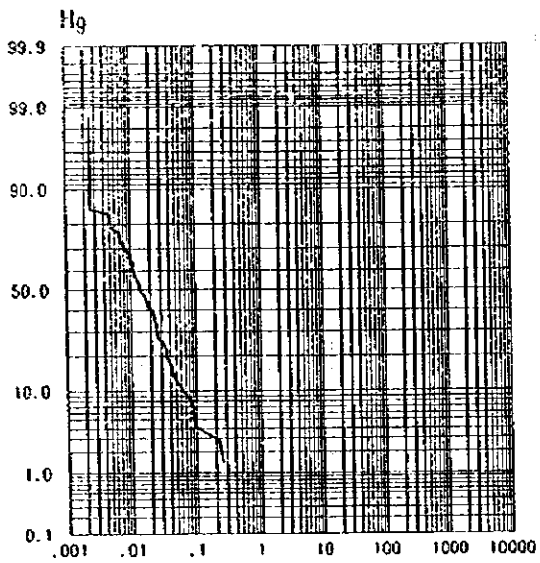
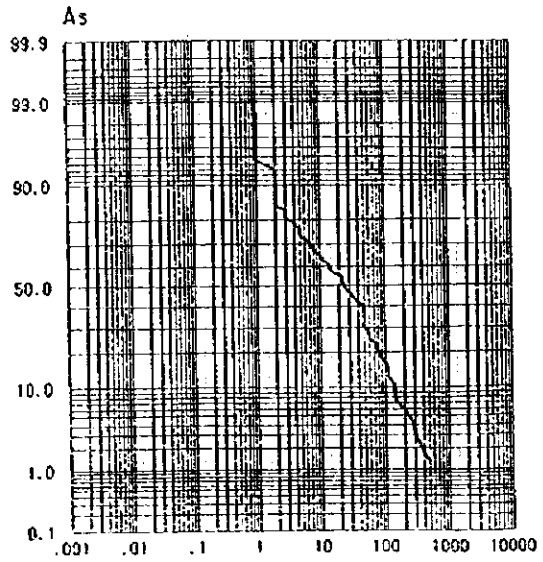
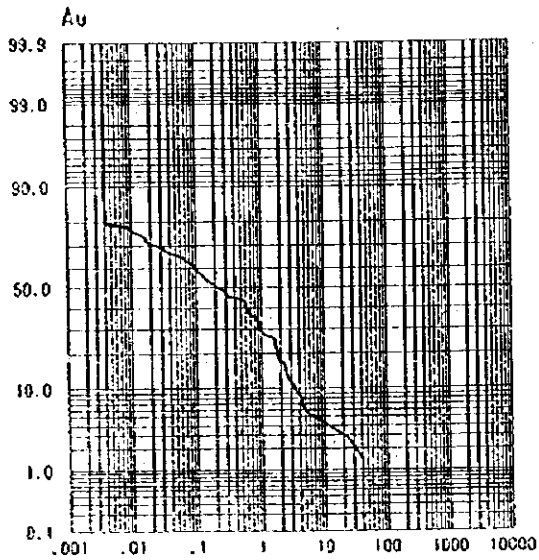


Fig. 2-4-12 Cumulative Frequency Distribution of Assay Values (the Waimotu Area)

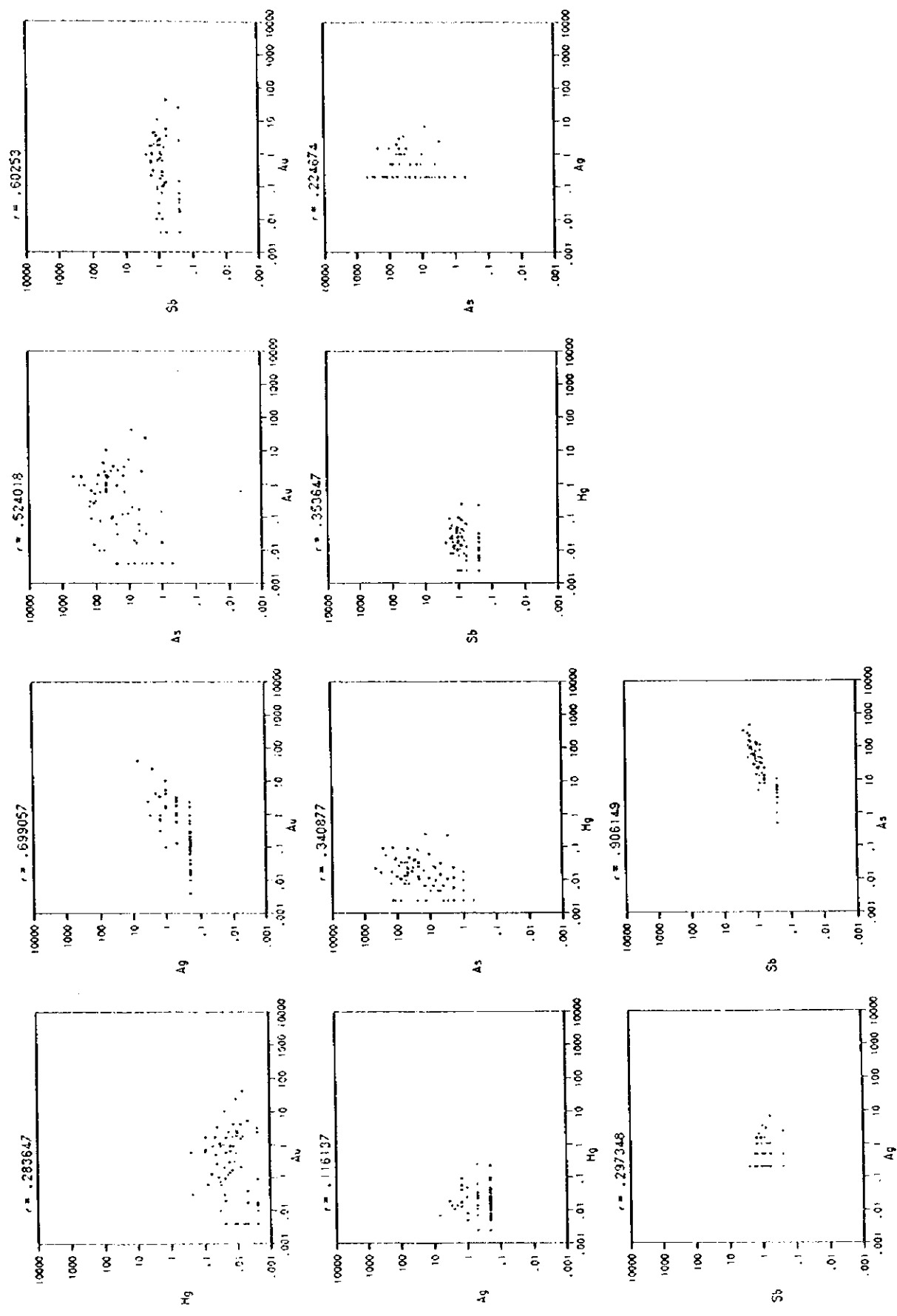


Fig. 2-4-13 Correlation between Elements (the Waimotu Area)

100

100

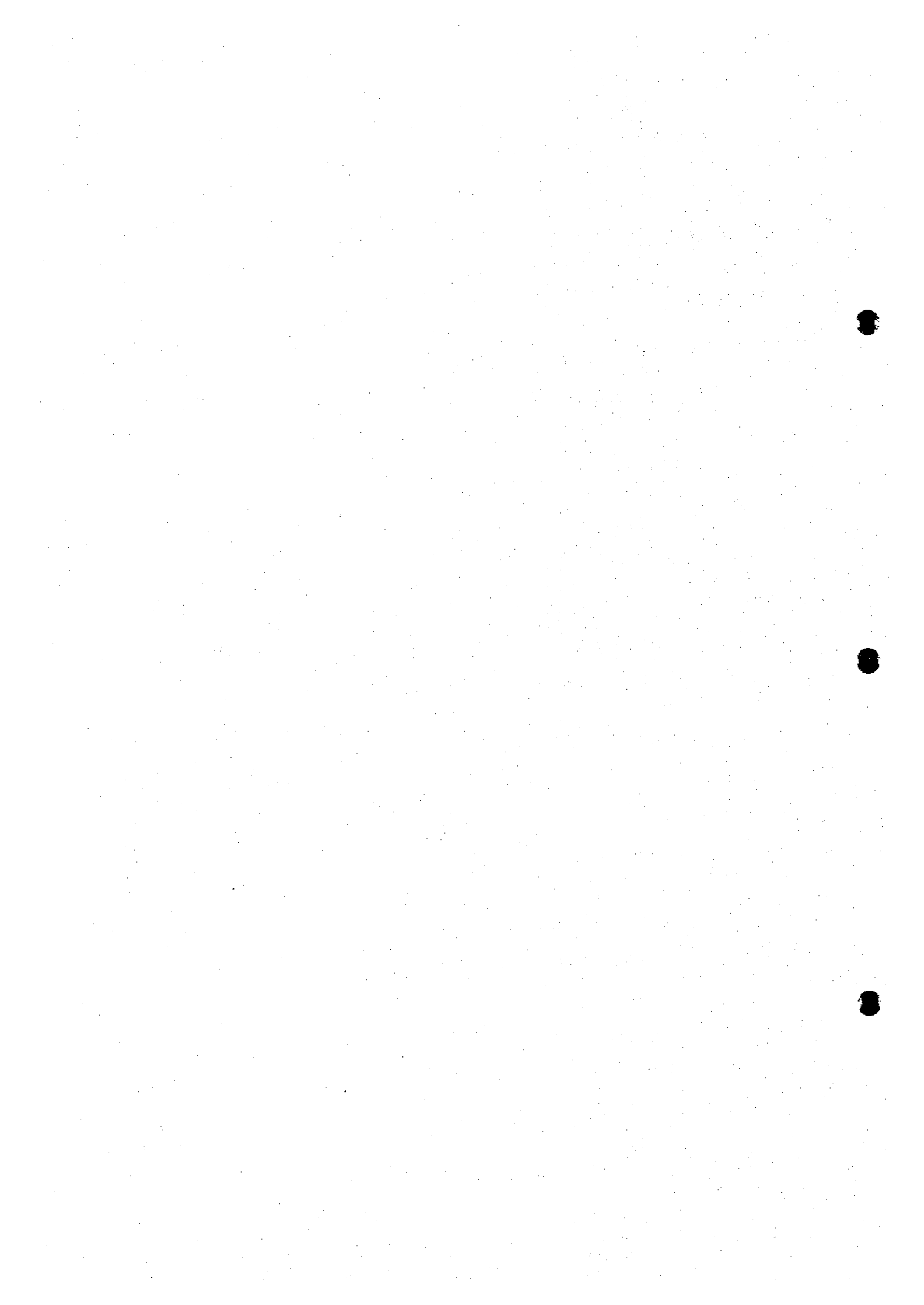
100

PART III CONCLUSIONS AND RECOMMENDATIONS

I

I

I



PART III Conclusions and Recommendations

Chapter 1 Nakoroutari Area

1-1 Conclusions

(1) This area comprises an areal extent of 36km² and is located approximately 15km south of Labasa. Geochemical, surface magnetic, and IP surveys had been conducted since 1988 in the Leli's Prospect. Also six holes with a total depth of 1,053 m had been drilled in this prospect. The holes were aimed at a quartz breccia zone associated with the NNW-SSE fault system and encountered ores with a core thickness of 0.6 m at 11.6 g/tAu.

(2) The geology of this area is composed mainly of basalt-andesite lava and volcanics of the Koroutari Andesites, and andesitic volcanics of the Sueni Breccia. These units belong to the Upper Miocene-Lower Pliocene Natewa Volcanics Group.

(3) Four zones were selected from the study of existing geological and resources data and information. They are; Leli's Prospect, a zone to the south of the same Prospect, Navakuru, and Mugsy's Prospect. Mineralization and alteration were found to occur in all five zones. The Leli's Prospect was concluded to be the most promising by geological survey. It was noted that the altered zone to the south of Leli's Prospect show evidence of gold mineralization.

(4) The Leli's Prospect occurs within the quartz vein-breccia zone developed in the Koroutari Andesite lava-volcanics which belong to the Natewa Volcanic Group. There are two quartz vein-breccia zones, the eastern and western zones, part of the NNW-SSE system. A silicified tuff breccia sample with a grade of 12.9 g/tAu was collected near the Leli's Prospect, and although in a limited area, high-grade zones had been confirmed during the first year survey.

(5) Geophysical survey by array CSAMT was carried out for 12km and time domain IP for 7.5km at the Leli's Prospect.

(6) The array CSAMT method identified intrusive-shaped high resistivity zones in the central parts of Line B-C and Line D-F. One-dimensional resistivity structure analysis showed the existence of two buried high-resistivity bodies that extend in the N-S direction. These two bodies as a whole extend in the NW-SE direction and are interpreted to be areas of silicification.

The apparent resistivity measured by the time domain IP method resulted in a distribution pattern harmonious with the results of the array CSAMT. The chargeability background is dominantly low. Chargeability anomalies exceeding 10 mV-s/V were detected at three localities, but they are independent

anomalies and the reliability is very low. Weak anomalies of over 5 mV-s/V occurred continuously in the central-western part of all traverse lines. It was inferred from the results that these IP anomalies were caused by bodies 100 m below the surface. Also the simulation results indicate that these bodies have chargeability in the general range of 5-7 mV-s/V and most probably formed by pyrite mineralization. These bodies and the two high-resistivity bodies detected by the Array CSAMT are located in approximately the same locality. Thus, it was believed that pyritization and silicification were closely related in this area.

(9) Resistivity and chargeability of 30 rock samples (including core samples) were measured in the laboratory. The resistivity of silicified rocks was the highest at 2,884 ohm-m, followed by basalt > andesite > volcanoclastic rocks. The chargeability of volcanoclastic rocks was the highest at 11.7 mV-s/V, followed by silicified rocks > andesite > basalt. It was shown from this work that identification of rock types from physical characteristics was difficult.

(10) Three holes MJFV-1, MJFV-2, and MJFV-3 drilled in the Nakoroutari Area all confirmed two zones of clay quartz veins. In the holes MJFV-2 and -3, weak silicified zones were confirmed in deeper parts. The clay quartz veins confirmed by this drilling strike in the NNW direction and were concluded to continue 600 m in the strike direction. Although the veins encountered in MJFV-1 and -3 are thin, grades of about 5 g/tAu were obtained by assay, and thus the surface gold showings were confirmed to continue into deeper zones. The Au content of the weakly silicified zones, however, was low.

(11) The IP anomalies obtained by CSAMT and IP surveys during the first year were inferred to reflect the deep-seated silicified zones confirmed by MJFV-1 and -3. Thus, it was clarified by the work during second year that the surface mineral showings continue downward to the deeper parts, and that the geophysical anomalous zones correspond to the silicified zones.

(12) Evidences regarding stronger mineralization in the vicinity, however, could not be obtained, and it is believed that the mineral showings confirmed by the first and second year surveys represent the characteristics of the mineralization of this area.

1-2 Recommendations

(1) The geology, alteration, and the characteristics of the gold mineralization of this area were clarified by the work carried out during the first and second years of this project. Drilling in this area (MJFV-1, -2, -3) confirmed the ores in both drill holes would be 600 m apart in the strike direction (NNW-SSE). Judging from the widths and gold grades of the veins that drill holes encountered, however, it is not felt that promising gold deposits are emplaced in this area. No further work in this area is recommended.

(2) On the other hand, the Nakoroutari area is located within the Labasa caldera near its inner slope. Within the caldera hot springs and mineralization zones occur although the volcanic center has not identified because extensive erosion has destroyed the topography. Therefore, it may be effective to

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Chapter 3 Waimotu Area

3-1 Conclusions

- (1) The Bill's Hill Prospect is located approximately 45km northeast of Savusavu, and the Waimotu Lode and Nuku Prospect are 0.5km and 2.5km east-northeast from there.
- (2) A total of 18 holes had been drilled in the three prospects of this area. A total of 551 m adits was dug and seven holes with a total of 609 m length were drilled into the Waimotu Lodes, seven and four holes were drilled in the Bill's Hill Prospect and Nuku Prospect, respectively.
- (3) The geology of this area consists mainly of weakly propylitized andesite and basaltic lava and volcanoclastics of the Koroutari Andesite and Korotini Breccias. These units belong to the Natewa Volcanic Group.
- (4) The Waimotu Lodes are comprised of Main Lode, East Lode, and West Lode. A length of about 70 m was confirmed for the Main Lode in outcrop, but both mineralization of the East and West Lodes were confirmed only at one outcrop and the entrance of the adit. All three veins had N-S strike and with a dip of 75° -90° east for the Main and East Lodes. The widths of the veins were, 1.2 m maximum for the Main Lode and 0.8 m was confirmed at an outcrop for the East Lode. The maximum grade was 24.2 g/tAu for the Main and 42.5 g/tAu for the East Lodes. The gold content of 42.5 g/t was obtained in a sample collected from the East Lode (0.8 m wide), but a sample collected only 1 m south of this sample contained only 2.4 g/tAu, thus the fluctuation in the grade was strong. On the other hand, the average grade of four samples collected along the 70 m length of the Main Lode was 7.2 g/tAu and the gold content is constant. The grade of the West Lode was the lowest of the three at 0.92 g/tAu.
- (5) Silicified and argillized zones are well developed in the Bill's Hill Prospect. Quartz and chalcedony stockwork is developed cutting through these zones, and its strike is N-S and the eastward dip is generally steep. Surface observation of the stockwork showed the occurrence of goethite as an opaque with very minor amount of chalcopyrite. The cores drilled in the past showed strong dissemination of pyrite in the silicified zone. The maximum grade of individual veinlets of the stockwork was 0.21 g/tAu.
- (6) At Nuku, a silicified zone comprising chalcedony-quartz veins extends in a N-S direction for approximately 150 m and the average width of this zone was approximately 7 m.
- (7) The direction of dip was seemingly east, but it was difficult to determine the dip on the surface and from the results of the past drilling, it was inferred to be westward dipping. The highest grade of the stockwork was 4.3 g/tAu (sampled width 2.5 m) and the average of the total 150 m was 1.3 g/tAu (average sampled width 7 m). The past two holes encountered ores at approximately 50 m below the surface and the average grade over a 7 m width was 0.6 g/tAu.
- (9) The lower parts of the three prospects in this area had been drilled. All three had significant mineral

potential and the zone extending from the lower part of the Waimotu Lode to the subsurface part of eastern Bill's Hill was concluded to be an interesting target for further exploration.

3-2 Recommendations

Following the first phase survey results, further work in the Waimotu area is recommended. The Waimotu Lode and Bill Hill Prospect are most interesting within the area.

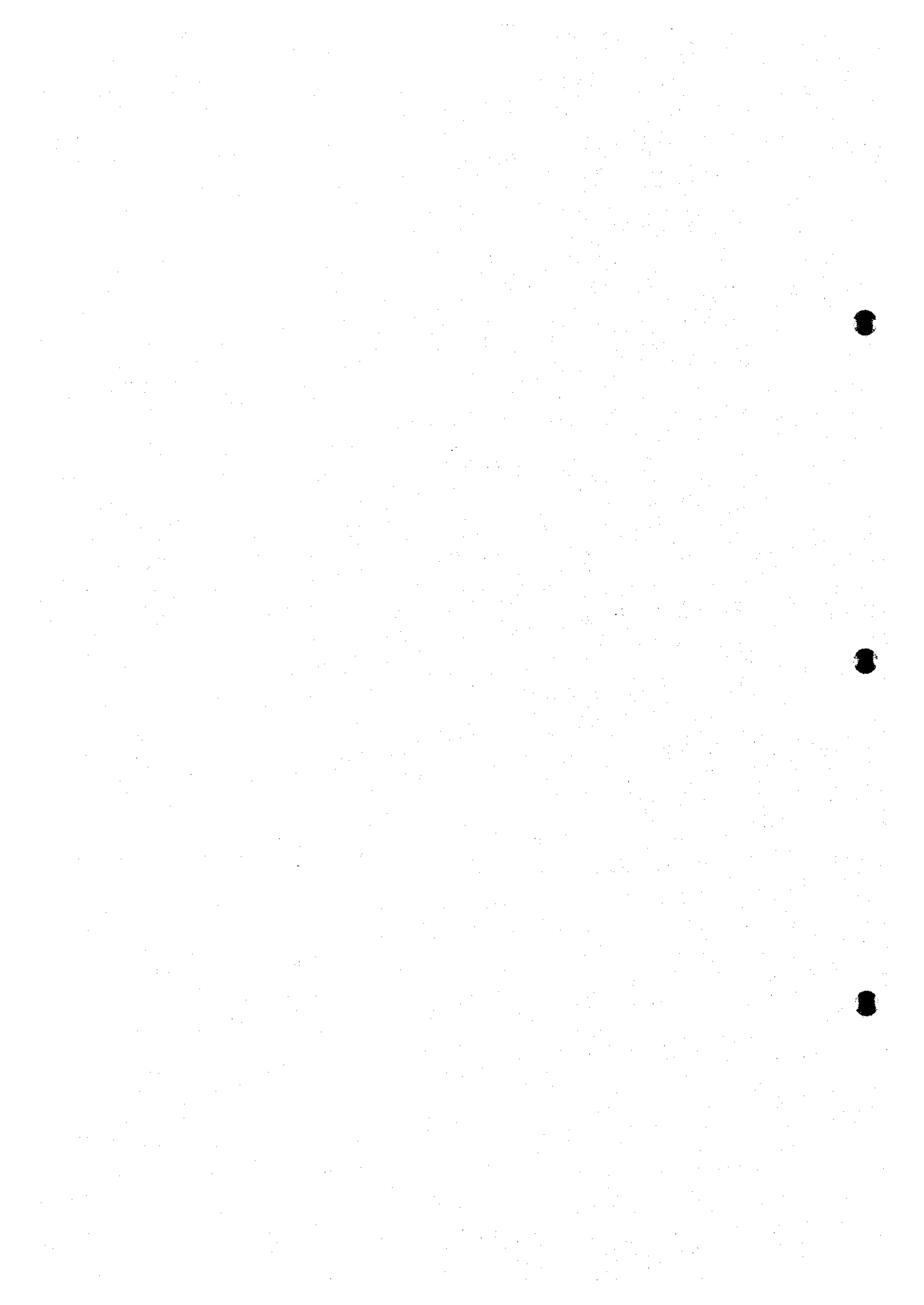
Therefore, it is recommended that we first confirm the downward continuity and the distribution of the new veins parallel to the known three veins, by electric survey, namely CSAMT and IP, then follow it up by drilling.

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APPENDIX

Table A-1(1) Results of Microscopic Observation of Thin Sections(1)

Sample No.	Rock type	Texture	Phenocryst										Groundmass (including microphenocrysts)										Alteration	
			ol	sp	opx	pl	ep	others	el	sp	opx	hb	pl	qtz	gl	op	others							
NN008	lapilli tuff	clastic																						ol → totally → idd, gl → partly → carb + smec
NN045	basalt	porphyritic	(.)																					gl → idd
NN003	basalt	porphyritic	(O)																					ol → idd
NN004	basalt	porphyritic	(Δ)																					ol → idd, opx → smec
NK009	andesite	glomeroporphyritic																						opx → idd
NK057	tuff breccia	clastic	(O)																					ol → smec, pl → partly → carb, gl → druse, partly → cp
NK060	andesite	aphvic																						opx → smec
NR005	andesite	porphyritic	(O)																					pl → partly → carb, opx → carb, opx → carb
NR035	basalt	porphyritic	(O)																					ol → smec, gl → smec
NR034	basalt	glomeroporphyritic	(O)																					ol → smec
NR085	basalt	porphyritic	(O)																					ol → smec
DM077	tuff	clastic																						gl → smec + chl + cpi
DM089	picrite	porphyritic	(O)																					ol → smec
DK069	andesite	porphyritic	(O)																					opx → smec, gl → smec
DK075	basalt	porphyritic	(O)																					ol → carb, pl → partly → carb + hb, gl → smec
DK084	tuff breccia	clastic	(O)																					ol → smec, gl → smec, druse → ca, qz → carb
DK145	basalt	porphyritic	(O)																					ol → smec, gl → smec, druse → smec + carb + cpi
DR122	basalt	porphyritic	(O)																					ol → smec, gl → smec
DR131	basalt	glomeroporphyritic	(O)																					ol → smec, druse → carb, Dool
DR136	basalt	porphyritic	(O)																					ol → smec
DS040	picritic basalt	porphyritic	(O)																					ol → smec
WB184	basalt	porphyritic	(Δ)																					carb vein, ol → smec + carb, cpi → carb, pl → partly → carb, gl → clay
WB191	basalt	porphyritic																						
WB192	basalt	porphyritic	(O)																					ol → smec, pl → partly → carb
WK507	basalt	porphyritic	(O)																					opx → clay
WK223	andesite	glomeroporphyritic	(O)																					pl → partly → alb
WM201	lapilli tuff	clastic																						
WM206	tuff breccia	clastic																						ol → partly → alb
WM209	andesite	porphyritic	(O)																					gl → smec, druse → qz + smec
WS113	andesite	porphyritic	(O)																					cpx → chl, druse → chl + cpi, gl → partly → carb
NF018	andesite	porphyritic	(O)																					

abbrev. ol=olivine, opx=clinopyroxene, op=orthopyroxene, pl=plagioclase, op=opaque minerals, qz=quartz, hb=hornblende, kt=k-feldspar

gl=glass or macrocrystalline aggregate, carb=carbonate, serp=serpentine

(O): abundant, (O): common, Δ: small, * : rare, () : totally decomposed

Table A-1(2) Results of Microscopic Observation of Thin Sections(2)

Sample No	Depth (m)	Rock type	Texture	Phenocryst or fragment										Groundmass or matrix										Alteration
				ol	opx	pl	ep	others	ol	opx	hb	pl	kf	qz	gl	ep	others							
ND106	26.00	volc. breccia	clastic	(O)	(O)																		ol & gl totally → clay minerals, interstices → clay + adularia	
ND112	170.20	basalt	porphyritic	(A)	(O)	(O)	(A)	(A)															ol → serp., pl partly → carb., gl totally → clay	
ND116	275.00	volc. breccia	clastic	(A)	(O)	(O)	(A)	(A)															ol & druse totally → clay minerals	
ND121	245.30	basalt	glomeroporphyritic	(O)	(O)	(O)	(A)	(A)															ol & druse totally → clay minerals	
ND122	232.30	tuff breccia	clastic	(O)	(O)	(O)	(A)	(A)															ol & gl totally → clay minerals	
ND205	97.70	basalt	porphyritic	(A)	(A)	(O)	(O)	(O)															ol & gl → clay minerals, druse → quartz → clay	
ND210	197.45	andesite	porphyritic	(A)	(A)	(O)	(O)	(O)															pl partly → epidote + albite, druse → quartz + carb.	
ND223	73.00	volc. breccia	clastic	(O)	(O)	(O)	(O)	(O)															pl & opx partly → albite, gl → clay, druse → epidote	
ND238	300.00	volc. breccia	clastic	(O)	(O)	(O)	(O)	(O)															gl → epidote, opx partly → epidote, pl partly → albite	
ND240	189.70	basalt	porphyritic	(O)	(O)	(O)	(A)	(A)															ol → serp., pl partly → albite, druse → clay	
ND308	126.40	trachybasalt	trachytic	(A)	(O)	(O)	(O)	(O)															ol → clay + carb., gl totally → clay	
ND317	224.90	volc. breccia	clastic	(O)	(O)	(O)	(A)	(A)															calcite vein, ol → clay, pl totally → albite, epidote → clay	
ND302	50.00	andesite	porphyritic	(O)	(O)	(O)	(A)	(A)															opx nm → clay, druse → clay + carb.	
ND320	300.00	andesite	porphyritic	(A)	(O)	(O)	(A)	(A)															opx totally → clay, pl → albite, gl & druse → clay + adularia	
DD405	127.60	picritic basalt	porphyritic	(O)	(O)	(O)	(O)	(O)															ep → carb. vein, ol → clay + carb., pl & opx → carb + quartz	
DD407	176.50	basalt	porphyritic	(O)	(O)	(O)	(A)	(A)															ol, gl & druse totally → clay	
DD412	300.20	basalt	porphyritic	(O)	(O)	(O)	(A)	(A)															gl → clay, pl strongly → albite, druse → clay + carb.	
DD429	220.60	volc. breccia	clastic	(A)	(O)	(O)	(O)	(O)															ol & gl → clay, druse → clay + adularia + carb.	
DD430	235.50	basalt	microcrystalline	(O)	(O)	(O)	(O)	(O)															ol & gl totally → clay + carb.	
DD521	72.80	basalt	porphyritic	(O)	(O)	(O)	(O)	(O)															ol & gl totally → clay	
DD523	123.00	carbonatized basalt	porphyritic	(O)	(O)	(O)	(O)	(O)															carbonate abundant, ol & gl → clay + carb., opx & pl → carb + alb + quartz	
DD524	150.00	silicified breccia	clastic	(O)	(O)	(O)	(O)	(O)															carbonate vein, gl → quartz, pl → alb + sericite	
DD525	176.60	basalt	porphyritic	(O)	(O)	(O)	(O)	(O)															ol → opx + carb., gl → clay, pl & opx → carb + alb	
DD603	70.10	picritic basalt	porphyritic	(O)	(O)	(O)	(O)	(O)															ol & gl totally → clay, pl partly → sericite	
DD605	152.00	carbonatized basalt	porphyritic	(O)	(O)	(O)	(O)	(O)															all minerals strongly silicified and carbonatized	
DD606	174.90	carbonatized tuff breccia	clastic	(O)	(O)	(O)	(O)	(O)															ol & gl → clay + carb., opx strongly carbonatized	
DD608	204.00	carbonatized volc. breccia	clastic	(O)	(O)	(O)	(O)	(O)															ol & gl → clay + carb., opx strongly carbonatized	
DD609	225.85	carbonatized basalt	porphyritic	(O)	(O)	(O)	(O)	(O)															ol, opx & gl → clay + carb., pl strongly → clay + alb	
DD614	135.20	altered basalt	porphyritic	(O)	(O)	(O)	(O)	(O)															ol & gl totally → clay, druse → carb + clay	

abbrev. ol=olivine, opx=clinopyroxene, pl=plagioclase, op=opaque minerals, qz=quartz, hb=hornblende, kt=K-feldspar

gl=glass or microcrystalline aggregate, carb.=carbonate, serp=serpentine
 ⊙: abundant, ○: common, △: rare, () : totally decomposed

Table A-1(3) Results of Microscopic Observation of Thin Sections(3)

Sample No.	Depth (m)	Rock type	Texture	Phenocryst or fragment							Groundmass or matrix							Alteration		
				ol		epx		pl		op		qz	pl		kf		gl		others	
				abundant	decomposed	abundant	decomposed	abundant	decomposed	abundant	decomposed	abundant	decomposed	abundant	decomposed	abundant	decomposed		abundant	decomposed
DD713	394.00	basalt	porphyritic	②		⊙		•		⊙				⊙					ol totally=clay minerals, druse carb and qz vein	
DD714	361.20	basalt	porphyritic	②		⊙		•		⊙	△	△	△	△					ol=clay+carb, gl totally=clay, pl=carb, carb and qz vein	
DD715	336.90	basalt	porphyritic	⊙		⊙		•		△	△	△	△	△					qtz carb vein, ol=clay + carb, pl & epx=carb + qz	
DD716	321.90	volc breccia	clastic	⊙		⊙				△	△	△	△	△					ol totally=clay, gl totally=clay	
DD717	293.60	basalt	porphyritic	⊙		⊙		•		△	△	△	△	△					ol=clay, gl totally=clay minerals	
DD814	210.50	lapilli tuff	clastic	⊙		⊙				△	△	△	△	△					ol=clay, gl totally=clay, druse carb	
DD815	292.90	basalt	glomeroporphyritic	⊙		⊙		•		△	△	△	△	△					ol totally clay minerals	
DD816	276.90	basalt	porphyritic	⊙		⊙		•		△	△	△	△	△					qtz carb vein, ol=clay+carb, pl & epx=carb+qz	
DD929	178.10	basalt	porphyritic	⊙		⊙		•		△	△	△	△	△					ol totally=clay minerals	
DD931	250.00	basalt	porphyritic	⊙		⊙				△	△	△	△	△					ol totally=clay minerals	

abbrev. ol=olivine, epx=clinopyroxene, opx=orthopyroxene, pl=plagioclase, opt=opaque minerals, qz=quartz, hb=hornblende, kf=K-feldspar
gl=glass or microcrystalline aggregate, carb=carbonate, serp=serpentine

⊙: abundant, ○: common, △: small, •: rare, (): totally decomposed

Table A-2(1) Results of Microscopic Observation of Polished Thin Sections(1)

Sample No.	Name	Rock type	Ore minerals				Gangue minerals												
			Py	Cha	Sph	Aca	Gal	others	qz	kf	pl	goe	clay	smc	apa	carb	bar	ser	others
NB034	Quartz vein	Texture under microscope	△																
NB099	Quartz vein	dolomite rock																	
NK033	Quartz vein	quartz vein																	
NK042	Quartz vein	quartz vein																	
NM068	Quartz vein	silicified tuff breccia																	
NM071	Quartz vein	quartz vein																	
DK117	Quartz vein	silicified volcanic breccia																	
DK127	Quartz vein	silicified volcanic breccia																	
DK154	Quartz vein	silicified volcanic breccia	△																
DB110	Quartz vein	silicified volcanic breccia	△																
DB111	Quartz vein	silicified tuff																	
DB118	Quartz vein	silicified volcanic breccia	△																
DB119	Quartz vein	silicified volcanic breccia	△																
DB148	Quartz vein	silicified volcanic breccia	△																
DB153	Quartz vein	silicified volcanic breccia	△																
DM102	Quartz vein	carbonatised tuff																	
DM125	Quartz vein	silicified tuff	○																
DM131	Quartz vein	quartz aggregate																	
WB218	Quartz vein	silicified tuff breccia																	
WB222	Quartz vein	silicified tuff																	
WB231	Quartz vein	opal	△																
WK210	Quartz vein	silicified tuff																	
WK212	Quartz vein	silicified tuff breccia																	
WK214	Quartz vein	silicified tuff																	
WK218	Quartz vein	silicified tuff																	
WK224	Quartz vein	silicified tuff																	
WM217	Quartz vein	silicified tuff																	
WM219	Quartz vein	silicified tuff breccia																	
WM221	Quartz vein	quartz vein																	
WS105	Quartz vein	silicified tuff breccia																	
WD013	Quartz vein	altered quenched basalt	○																

Py=pyrite, Cha=chalcopyrite, Sph=sphalerite, Aca=acanthite, Gal=galena, chcc=chalcocite, Ars=arsenopyrite
 qz=quartz, kf=k-feldspar, pl=plagioclase, goe=goethite, clay=clay minerals, smc=smectite, apa=apaite, cb=carbonate
 ba=barite, epi=epidote, hema=hematite, ser=sericite, chl=chlorite, pyro=pyroxene, cpx=clinopyroxene
 ◎=abundant, ○=common, △=small, * = rare

Table A-2(2) Results of Microscopic Observation of Polished Thin Sections(2)

Sample No.	Depth (m)	Texture under microscope	Ore minerals				Gangue minerals										
			Py	Cha	Sph	Aca	Gal	others	Si	kf	pl	goe	clay	apa	carb	ser	others
ND103	120.20	silicified volcanic breccia	△	·	·	·	·	⊙				⊙			○		
ND104	120.40	silicified volcanic breccia	△	·	⊙	△						·	△				
ND215	118.40	silicified volcanic breccia	·	·	△	·	Hm(·)	⊙	△			△	○			△	
ND217	118.65	silicified volcanic breccia				·	Mt(·)	⊙				△	○				
ND227	53.30	silicified volcanic breccia	△	·			Mt(·)	⊙				△	○				
ND231	245.35	altered basalt		·			Hm(△)	△			⊙					cdx (△)	chl (△)
ND309	152.10	silicified volcanic breccia	△	·	△	·	Au(·)	⊙	○								△
ND310	152.20	silicified tuff breccia	·	·			Hm(·)	⊙	○			⊙					
DD414	138.25	silicified volcanic breccia	△	·	·	·		⊙							○		
DD421	182.20	basalt with quartz vein	△	·	·			⊙	○	△					○	△	
DD423	190.40	silicified volcanic breccia	○	△	·	·		○									
DD426	191.20	silicified tuff breccia	○	·	·			○	⊙	△							
DD504	122.75	silicified volcanic breccia	⊙	·	△	△		⊙	△						○		
DD507	152.70	silicified volcanic breccia	○	·	·	·		⊙	○							·	
DD510	164.10	silicified volcanic breccia	△	·	·			⊙					△		○		
DD513	182.00	silicified volcanic breccia	△	·	·	·		⊙	○						△		
DD628	122.10	silicified volcanic breccia	·	·	·		Au(·)	⊙	○						○		
DD637	267.50	silicified volcanic breccia	△	·			Hm(△),Mt(·)	⊙					⊙		○		
DD640	297.50	silicified volcanic breccia	△	·				⊙	△	○					○		
DD642	75.00	silicified volcanic breccia	△					⊙						⊙			△

Py=pyrite, Cha=chalcopyrite, Sph=sphalerite, Aca=acantite, Gal=galena, Au=electrum, Hm=hematite, Mt=magnetite
 Si=quartz or SiO2 polymorphs, kf=K-feldspar, pl=plagioclase, goe=goethite, clay=clay minerals, apa=apatite, cb=carbonate, chl=chlorite
 ⊙=abundant, ○=common, △=small, ·=rare

Table A-2(3) Results of Microscopic Observation of Polished Thin Sections(3)

Sample No.	Depth (m)	Texture under microscope	Ore minerals					Gangue minerals									
			Py	Cha	Sph	Asp	Gal	others	Si	kf	pl	goe	chl	apa	carb	ser	others
DD740	227.10	silicified volcanic breccia	○	△	△	△	•	△	○	○	○	△					
DD742	251.20	silicified volcanic breccia	○	△	△	△	•	Au(*)	○	○	○	△					
DD743	259.75	silicified volcanic breccia	○	△	△	△	•		○	○	○	△					
DD817	125.40	silicified volcanic breccia	○	△	△	△	•		○	○	○	△					
DD818	141.45	silicified volcanic breccia	○	△	△	△	•		○	○	○	△					
DD819	125.50	silicified volcanic breccia	○	△	△	△			○	○	○	△					
DD822	116.80	carbonate rock	○	△	△	△			○	○	○	△					
DD903	88.45	silicified tuff breccia	○	△	△	△	•	Cr(*)	○	○	○	△					
DD912	93.75	silicified volcanic breccia	○	△	△	△	•		○	○	○	△					
DD922	288.89	basalt with quartz vein	△	△	△	△	•	△	○	○	○	△					

Py=pyrite, Cha=chalcopyrite, Sph=sphalerite, Aca=acanthite, Gal=galena, Au=electrum, Hm=hematite, Mt=magnetite
 Si=quartz or SiO2 polymorphs, kf=K-feldspar, pl=plagioclase, goe=goethite, clay=clay minerals, apa=apatite, cb=carbonate, chl=chlorite
 ○=abundant, △=common, △=small, • =rare

Table A-3(1) Results of X-ray Diffraction Analysis of Rock Samples(1)

Sample No.	Field description	Clay mineral							Silica feldspar							Zeolite				Carbonate				Sulfate				Others			
		Sm	Ch	Ka	Se	Tr	Cr	Oz	Pl	Kf	Ob	St	Wa	La	Na	An	Ca	Do	Al	Ja	Gv	Ap	Py	Mg	Re	Gb	Others				
NS 010	Lapilli tuff	△					○														○										
NS 011	Lapilli tuff	△					○																								
NS 012	Tuff(light gray)	△					○																								
NS 013	Lapilli tuff				△		○									○							○				△				
NS 022	Andesitic volcanic breccia						○																								
NS 028	Clay-quartz vein				△																										
NS 033	Lapilli tuff				△																										
NS 035	Lapilli tuff				△		○																								
NS 036	Volcanic breccia						○																				△				
NS 049	Andesite?				△																										
NS 051	Lapilli tuff				○																						△				
NM 007	Basaltic andesite(pale green)				○																						△				
NM 010	Porphyritic basalt						○																								
NM 016	Coarse tuff						○																				○				
NM 021	Tuff(dark green)				○																										
NM 034	Basalt(pale green)				○																						△				
NM 018	Coarse tuff				△																										
NK 022	Silicified, argillitic rock				△																										
NK 036	Lapilli tuff				△																										
NK 038	Silicified rock				△																										
NK 039	Lapilli tuff~tuff breccia				○																										
NK 040	Lapilli tuff(clayey)				○																										
NK 043	Silicified rock				△																										
NK 050	Lapilli tuff				○																										
NK 052	Lapilli tuff				○																										
NK 054	Lapilli tuff				○																										
NK 057	Tuff breccia(greenish)				○																										
NK 058	Tuff(clayey)				○																										
NB 012	Argillitic rock						○																								
NB 016	Argillitic rock						○																								
NB 019	Argillitic rock						○																								
NB 021	Argillitic rock						○																								
NB 022	Weakly argillitic basalt				△																										
NB 026	Argillitic rock						○																								
NB 030	Argillitic volcanic breccia				△																										
NB 031	Decomposed volcanic breccia				△																										
NB 034	Silicified zone /quartz vein				○																										
NB 043	Argillitic rock				○																										
NB 053	Argillitic rock				○																										

Table A-3(3) Results of X-ray Diffraction Analysis of Rock Core Samples(3)

Sample No.	Field description	Clay minerals			Silica			Feldspar			Zeolite			Carbonate			Sulfate			Others							
		Sm	Ch	Ka	Se	Tr	Gr	Qz	Pl	Kf	Cb	St	Wa	La	Na	An	Ca	Do	Al	Ja	Gy	Ap	Py	Mg	He	Db	Others
WK 228	Quartz stringer bearing tuff breccia						⊙																				
WK 229	Soapy tuff breccia	○					○																				
WK 200	Lapilli tuff		○				○																				
WK 204	Basalt with quartz vein						○				△		○														
WK 205	Weakly silicified rock						○																				
WK 206	Lapilli tuff						○																				
WK 211	Weakly silicified, limonitic zone	△					○																				
WK 213	Weakly silicified rock						○																				
WK 219	Quartz vein with iron oxide						○																				
WK 220	Clayey tuff	△					○																				
WK 227	Silicified rock						○																				
WB 205	Limonitic veinlet in andesite						○																				
WB 207	Silicified, brecciated rock						○																				
WB 208	Silicified, brecciated rock						○																				
WB 209	White clay (0.5m)						○																				
WB 210	Silicified, brecciated rock						○																				
WB 211	Strongly silicified rock						○																				
WB 212	Andesite(Whitisch)						○																				
WB 213	Strongly silicified rock						○																				
WB 214	Strongly silicified rock						○																				
WB 215	Weakly silicified rock						○																				
WB 217	Strongly silicified, clay zone						○																				
WB 219	Strongly silicified, brecciated zone						○																				
WB 224	Strongly silicified rock						○																				
WB 226	Strongly silicified, brecciated rock						○																				
WB 227	Andesite?(white, decomposed)						○																				
WB 234	Silicified, brecciated rock						○																				
WD 006	Tuff breccia (weakly silicified)	○					○																				
WD 007	Shear zone						○																				
WD 008	Tuff breccia						○																				

⊙= abundant, ○=common, △=small, ·=rare

Sm:smeectite, Ch:chlorite, Ka:kaolin, Se:sericite, Tr:tridymite, Cr:cristobalite, Qz:quartz

Pl:plagioclase, Kf:K-feldspar, Al:alunite, Ja:jarosite, Ca:calcite, Do:dolomite, Gy:gypsum, Ap:apatite, An:anatase

Cb:chabasite, St:stibite, Wa:wairakite, Na:natrolite, La:laumontite

Py:pyrite, Mag:magnetite, He:hematite, Gb:gibbsite, Te:tennantite, Sp:sphalerite, Ma:malachite

Table A-3(4) Results of X-ray Diffraction Analysis of Drill Core Samples(1)

Sample No.	Drill hole	Depth (m)	Silicate													Carbonate		Others									
			Silica		Feldspar		Clay mineral				Zeolite					Others			Calcite	Dolomite	Pyrite	Anatase					
			Quartz	Christobalite	K-feldspar	Plagioclase	Smectite	Mixed layered(C/M)	Chlorite	Mixed layered(S/M)	Sericite	Heulandite	Stibite	Epistilbite	Hamotome	Analcime	Pyroxene	Epidote									
ND102	MJFV-1	120.10	⊙		○					○															○		
ND105	MJFV-1	120.40	⊙		○																						
ND106	MJFV-1	26.00				⊙	⊙						⊙														
ND107	MJFV-1	50.60					○																				
ND108	MJFV-1	71.70		○		⊙	△						△														
ND109	MJFV-1	99.40	○		○			⊙																			
ND110	MJFV-1	125.10				⊙	⊙																				
ND111	MJFV-1	155.00	⊙		△					○																	
ND112	MJFV-1	170.20	○			⊙	△			○																	
ND113	MJFV-1	200.50	·			⊙	○			△																○	
ND114	MJFV-1	225.90	△				○	○					⊙														
ND115	MJFV-1	249.00	○			⊙		○																			
ND116	MJFV-1	275.00	○			○		○							△												
ND117	MJFV-1	300.00				⊙		○							·												
ND118	MJFV-1	59.30					⊙									△											
ND119	MJFV-1	32.60				○	⊙																				
ND201	MJFV-2	26.00					○																		⊙		△
ND202	MJFV-2	50.00	⊙		△					△																	
ND204	MJFV-2	69.00	○		○					△																	
ND205	MJFV-2	97.70	△			⊙	⊙																				
ND206	MJFV-2	118.80	⊙				⊙																				
ND208	MJFV-2	147.95				⊙																					
ND209	MJFV-2	176.00	○			○																					
ND210	MJFV-2	197.45				⊙				○																	
ND211	MJFV-2	225.40				⊙				○																	
ND212	MJFV-2	250.50	○			⊙																					
ND213	MJFV-2	103.80	⊙																								
ND214	MJFV-2	118.20	⊙																								
ND215	MJFV-2	118.40	⊙																								
ND220	MJFV-2	195.10	○																								
ND234	MJFV-2	35.70																									
ND301	MJFV-3	28.50		○		⊙	⊙																				
ND305	MJFV-3	101.20		○		⊙	⊙																				
ND307	MJFV-3	112.30						⊙																			
ND308	MJFV-3	126.00				⊙	⊙																				
ND315	MJFV-3	175.00	⊙			⊙				○																	
ND316	MJFV-3	196.60				⊙				⊙																	
ND317	MJFV-3	224.90				○				⊙																	
ND318	MJFV-3	247.75				⊙																					
ND319	MJFV-3	274.70								○																	
ND320	MJFV-3	300.00	○			⊙		○																			

⊙ abundant ○ common △ small · rare C/M:chlorite/smectite S/M:sericite/smectite

Table A-3(5) Results of X-ray Diffraction Analysis of Drill Core Samples(2)

Sample No.	Drill hole	Depth (m)	Silicate														Carbonate		Others									
			Silica		Feldspar		Clay mineral				Zeolite				Others		Calcite	Dolomite	Pyrite	Anatase								
			Quartz	Christobalite	K-feldspar	Plagioclase	Smectite	Mixed layered(C/M)	Chlorite	Mixed layered(S/M)	Sericite	Heulandite	Stilbite	Epistilbite	Hamotome	Analcime					Pyroxene	Epidote						
DD401	MJFV-4	25.00																										
DD402	MJFV-4	50.00				○	○																					
DD403	MJFV-4	75.50	.			○	○																					
DD404	MJFV-4	100.00	△			⊙		.																				
DD405	MJFV-4	127.60	⊙		△					△																		△
DD406	MJFV-4	154.60	○		△					○																		
DD407	MJFV-4	176.50				△	⊙																					
DD408	MJFV-4	205.50				○	⊙																					
DD409	MJFV-4	230.00	⊙			△	⊙			△																		○
DD410	MJFV-4	250.20	△			⊙	⊙																					
DD411	MJFV-4	273.40	△			○	⊙																					
DD412	MJFV-4	300.20	△			○				○																		
DD519	MJFV-5	159.50				○	⊙																					
DD521	MJFV-5	72.80	△			△	⊙																					
DD523	MJFV-5	123.00			△					○																		⊙
DD524	MJFV-5	150.00			△					.	.																	⊙
DD525	MJFV-5	176.60			.					○	△																	○
DD528	MJFV-5	252.40				○	⊙																					
DD530	MJFV-5	290.25			.		⊙																					
DD531	MJFV-5	132.00	⊙		○		△																					
DD601	MJFV-6	25.00	△	.			⊙																					○
DD603	MJFV-6	56.00				○	○																					
DD604	MJFV-6	106.00			○					○																		
DD605	MJFV-6	125.20	○		△					○																		
DD606	MJFV-6	152.00	△			○		⊙																				
DD607	MJFV-6	174.90	△		.			⊙																				
DD609	MJFV-6	225.85	⊙			○				○																		
DD611	MJFV-6	272.35	△		△					⊙																		⊙
DD612	MJFV-6	300.00	○			○		.		△																		○
DD613	MJFV-6	116.00	○		△					○																		
DD614	MJFV-6	135.20	△		△		⊙			△																		
DD632	MJFV-6	255.90	⊙							○																		⊙

⊙ abundant ○ common △ small . rare C/M:chlorite/smectite S/M:sericite/smectite

Table A-3(6) Results of X-ray Diffraction Analysis of Drill Core Samples(3)

Sample No.	Drill hole	Depth(m)	Silicate											Zeolite	Others	Carbonate			Others						
			Silica			Feldspar		Clay mineral								Analcime	Pyroxene	Calcite	Siderite	Ankerite	Pyrite	glass			
			Quartz	Christobalite	Tridymite	K-feldspar	Plagioclase	Smectite	Mixed layered(C/M)	Chlorite	Mixed layered(S/M)	meta Halloysite	Sepiolite												
DD701	MJFY-7	41.10					⊙									○									
DD702	MJFY-7	102.50	△				○		⊙							○		○							
DD703	MJFY-7	153.70					○		⊙			△				△		○						△	
DD704	MJFY-7	203.00	○				○		⊙									△						△	
DD705	MJFY-7	227.00	○				△		⊙			△						⊙						△	
DD706	MJFY-7	201.65	△				○		⊙									△						△	
DD707	MJFY-7	248.10	○				○		○									⊙						△	
DD708	MJFY-7	253.20	△				△				△							○			⊙			△	
DD709	MJFY-7	284.60					⊙	⊙				△				○					⊙			△	
DD710	MJFY-7	321.90					△	⊙				△	△	△											
DD711	MJFY-7	338.50	○	△			△	⊙	⊙			△	△	△											
DD712	MJFY-7	382.35	△				○	⊙				△				△	△								
DD801	MJFY-8	48.30						⊙									△	△							○
DD802	MJFY-8	125.50	⊙				△		△									△						△	
DD803	MJFY-8	112.20	⊙				△		△									○						△	
DD804	MJFY-8	134.70	○				△		⊙								○	○						△	
DD805	MJFY-8	181.65	○				△				△						⊙							△	
DD806	MJFY-8	143.00	⊙				○																	△	
DD807	MJFY-8	204.50	△				△		⊙						○			○						△	
DD808	MJFY-8	261.80	△				△	⊙							○			○						△	
DD809	MJFY-8	277.60	△				○		⊙								△							△	
DD810	MJFY-8	336.10					⊙		○									△						△	
DD811	MJFY-8	363.50	△				⊙		○								△							△	
DD812	MJFY-8	396.80	△				⊙		⊙									○						△	
DD924	MJFY-9	58.70	⊙				△		△								△	○						△	
DD926	MJFY-9	88.00	⊙				△				△									○				△	
DD927	MJFY-9	115.00			△		⊙	△					△				△	△						△	
DD928	MJFY-9	151.60	△				△	⊙					△											△	
DD930	MJFY-9	200.70					⊙	○					○				△	⊙						△	
DD932	MJFY-9	258.50	△				△		⊙								⊙							△	
DD933	MJFY-9	289.90	○				○				⊙	⊙					△							△	
DD934	MJFY-9	300.00	⊙				△				△							⊙						△	

⊙ abundant ○ common △ small • rare C/M:chlorite/smectite
 S/M:sericite/smectite

Table A-4(1) Results of Chemical Analysis of Rock Samples(1)

Element Unit	Au (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Element Unit	Au (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)
Detection	0.01(0.008)	0.4	1	0.5	0.005	Detection	0.01(0.008)	0.4	1	0.5	0.005
DB 107	5.72	9.8	160	1.6	0.08	DK 074	<0.01	<0.4	2	<0.5	0.025
DB 108	5.11	6.5	140	1.4	0.061	DK 086	<0.01	<0.4	5	0.7	0.006
DB 109	4	16.5	280	2.8	0.219	DK 088	<0.01	<0.4	4	0.6	0.01
DB 110	4.55	47	500	5.8	0.483	DK 089	<0.01	0.4	3	0.6	0.009
DB 111	2.89	6.4	100	1.5	0.061	DK 092	0.11	38.5	1130	28.3	0.575
DB 113	0.38	11.1	560	2.7	0.104	DK 093	0.26	62	1050	17.4	0.63
DB 114	0.1	<0.4	250	3.1	0.288	DK 095	0.015	0.6	380	4.3	0.028
DB 115	0.318	0.5	1360	14.4	2.57	DK 096	<0.01	1.6	310	1.9	0.048
DB 116	0.13	1.2	310	3.4	0.041	DK 097	0.1	27.2	380	12.3	0.465
DB 117	4.45	12.3	410	3.9	0.276	DK 100	<0.01	<0.4	16	1	0.034
DB 118	6.7	8.5	200	2.5	0.025	DK 101	0.12	<0.4	24	1.3	0.075
DB 119	6.56	10.4	265	2.4	0.06	DK 102	2.55	0.6	26	1.1	0.065
DB 123	<0.01	<0.4	3	<0.5	0.016	DK 103	0.07	0.4	70	1	0.025
DB 124	<0.01	<0.4	4	<0.5	0.022	DK 104	0.015	<0.4	4	<0.5	0.06
DB 125	<0.01	<0.4	3	<0.5	0.018	DK 105	0.19	2.2	31	0.9	0.063
DB 126	0.62	<0.4	2	<0.5	0.015	DK 106	0.14	1	15	0.6	0.041
DB 130	<0.01	<0.4	4	<0.5	0.026	DK 107	0.56	0.4	25	1.3	0.037
DB 132	<0.01	<0.4	2	<0.5	0.02	DK 108	0.05	<0.4	21	0.7	0.067
DB 134	<0.01	<0.4	6	<0.5	0.011	DK 109	0.052	<0.4	17	<0.5	0.063
DB 137	0.02	2.8	24	<0.5	0.017	DK 110	0.049	<0.4	15	<0.5	0.06
DB 139	0.12	1.2	55	<0.5	0.012	DK 111	0.173	<0.4	130	1.6	0.046
DB 140	0.2	<0.4	25	<0.5	0.014	DK 112	0.049	<0.4	35	<0.5	0.064
DB 141	0.03	<0.4	<1	<0.5	0.014	DK 113	0.435	12.2	310	7.4	2.33
DB 142	1.77	1.2	155	<0.5	0.031	DK 114	0.04	<0.4	246	2.6	0.111
DB 143	<0.01	<0.4	3	<0.5	0.014	DK 115	0.162	1.7	226	2.9	0.09
DB 144	0.11	0.4	8	<0.5	0.02	DK 116	0.12	0.4	90	1.3	0.069
DB 145	<0.01	<0.4	4	<0.5	0.014	DK 117	0.204	16.1	160	2.6	0.076
DB 146	0.69	38.7	1430	9.4	2.25	DK 118	0.01	<0.4	5	<0.5	0.033
DB 147	0.71	47	1590	12.6	3.16	DK 119	0.012	<0.4	6	<0.5	0.034
DB 148	12.4	46	1420	12.7	2.7	DK 120	<0.01	<0.4	16	<0.5	0.012
DB 149	2.18	5.6	190	2.3	0.057	DK 121	<0.01	0.4	23	<0.5	0.027
DB 150	0.045	2.4	70	3.3	0.136	DK 122	0.012	<0.4	37	<0.5	0.013
DB 151	1.33	4.6	210	2	0.034	DK 123	<0.01	0.6	31	<0.5	0.025
DB 152	0.54	7.2	280	3.4	0.03	DK 126	<0.01	<0.4	50	0.6	0.022
DB 153	2.28	11.3	345	3.3	0.165	DK 127	<0.01	1.2	25	<0.5	0.025
DB 154	4.61	8.3	240	2.4	0.08	DK 128	0.01	0.4	60	0.5	0.031
DB 155	16.1	78	330	6	0.065	DK 129	0.01	<0.4	60	0.8	0.029
DB 156	<0.01	<0.4	5	<0.5	0.022	DK 130	0.01	<0.4	50	<0.5	0.029
DB 158	<0.01	0.4	3	<0.5	0.096	DK 131	<0.01	<0.4	11	<0.5	0.03
DB 159	<0.01	<0.4	155	1.7	0.065	DK 132	<0.01	<0.4	20	<0.5	0.016
DB 160	<0.01	<0.4	8	<0.5	0.044	DK 133	0.02	0.8	8	<0.5	0.036
DB 161	<0.01	<0.4	4	<0.5	0.024	DK 134	0.07	2.4	70	1.1	0.045
DB 162	<0.01	<0.4	21	<0.5	0.077	DK 136	0.136	5.5	130	3.9	0.034
DB 163	<0.01	0.4	<1	<0.5	0.016	DK 140	<0.01	<0.4	7	<0.5	0.021
DB 164	<0.01	<0.4	7	<0.5	0.03	DK 144	<0.01	<0.4	3	<0.5	0.018
DB 165	<0.01	<0.4	2	<0.5	0.032	DK 146	<0.01	<0.4	7	<0.5	0.019
DB 166	<0.01	<0.4	3	1	0.039	DK 147	1.7	9.2	34	4.7	0.045
DB 167	<0.01	<0.4	3	1.6	0.024	DK 148	0.6	10.8	140	25.4	0.128
DB 168	<0.01	<0.4	2	1.1	0.028	DK 149	0.141	25.4	180	14.8	0.088
DB 169	<0.01	<0.4	8	0.6	0.017	DK 150	0.134	9.5	145	12.7	0.09
DB 171	<0.01	<0.4	3	0.9	0.017	DK 151	0.117	32.3	175	7.4	0.065
DB 172	<0.01	<0.4	20	<0.5	0.022	DK 152	0.015	2.7	60	<0.5	0.058
DB 173	0.02	0.4	4	<0.5	0.022	DK 153	0.113	0.9	200	0.9	0.028
DB 174	0.01	<0.4	3	<0.5	0.026	DK 154	0.04	3	80	<0.5	0.03
DB 175	0.015	<0.4	11	<0.5	0.027	DK 155	0.024	34.7	14	<0.5	0.044
DB 176	<0.01	<0.4	3	<0.5	0.021	DM 078	<0.01	<0.4	6	1.2	0.061
DB 177	0.02	<0.4	23	<0.5	0.017	DM 079	<0.01	<0.4	10	0.8	0.037
DB 178	<0.01	<0.4	7	<0.5	0.016	DM 080	<0.01	0.6	13	0.6	0.017
DK 063	<0.01	<0.4	10	0.8	0.022	DM 081	0.07	2.8	155	0.6	0.013
DK 064	<0.01	<0.4	5	0.9	0.022	DM 083	<0.01	0.4	3	<0.5	0.011
DK 065	<0.01	<0.4	7	<0.5	0.014	DM 085	<0.01	0.4	15	0.6	0.095
DK 066	<0.01	<0.4	5	0.7	0.017	DM 086	<0.01	<0.4	6	<0.5	0.016
DK 067	<0.01	0.4	5	<0.5	0.018	DM 091	0.405	23.6	550	4.3	0.342
DK 068	<0.01	<0.4	1	<0.5	0.016	DM 095	0.03	0.5	15	<0.5	0.016
DK 073	<0.01	<0.4	17	0.8	0.018	DM 096	<0.01	0.4	3	<0.5	0.008

Table A-4(2) Results of Chemical Analysis of Rock Samples(2)

Element Unit	Au (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Element Unit	Au (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)
Detection	0.01(0.008)	0.4	1	0.5	0.005	Detection	0.01(0.008)	0.4	1	0.5	0.005
DM 097	<0.01	<0.4	11	<0.5	0.021	DM 164	0.05	1	75	1	0.014
DM 098	<0.01	<0.4	110	0.7	0.031	DM 165	<0.01	0.7	13	0.8	0.054
DM 099	<0.01	<0.4	15	0.6	0.023	DM 166	<0.01	<0.4	8	0.6	0.015
DM 101	<0.01	0.4	4	<0.5	0.013	DM 167	0.13	3.4	140	1.4	0.044
DM 102	0.065	0.8	10	<0.5	0.028	DM 168	0.31	4	130	0.9	0.091
DM 103	<0.01	0.9	25	0.8	0.026	DM 169	0.454	151	155	1.6	0.198
DM 104	<0.01	<0.4	2	<0.5	0.08	DM 170	0.1	5.3	160	1.3	0.022
DM 106	<0.01	<0.4	5	<0.5	0.018	DM 171	0.053	2.2	60	1.4	0.041
DM 107	<0.01	<0.4	5	<0.5	0.02	DM 172	0.039	0.5	85	1.1	0.024
DM 108	0.018	<0.4	1	<0.5	0.018	DM 173	0.027	1.8	33	1.3	0.08
DM 109	<0.01	<0.4	6	<0.5	0.011	DM 174	0.033	2.6	85	2.2	0.051
DM 110	<0.01	<0.4	4	<0.5	0.034	DM 175	0.034	2.5	55	1.4	0.225
DM 111	<0.01	0.4	15	0.6	0.017	DM 176	0.03	3.9	20	1.3	0.735
DM 112	0.112	2.2	110	1	0.022	DM 179	0.01	<0.4	1	<0.5	0.019
DM 113	<0.01	<0.4	3	<0.5	0.054	DM 180	0.014	0.7	13	<0.5	0.009
DM 114	0.077	2.2	31	0.6	0.034	DM 181	0.024	<0.4	28	<0.5	0.013
DM 115	<0.01	0.6	4	0.7	0.026	DM 184	0.2	16.7	145	3.9	0.379
DM 116	<0.01	<0.4	3	<0.5	0.006	DM 185	<0.01	0.5	9	<0.5	0.04
DM 117	<0.01	0.4	13	0.6	0.01	DM 186	<0.01	<0.4	3	<0.5	0.007
DM 118	<0.01	<0.4	6	<0.5	0.01	DM 187	<0.01	<0.4	2	<0.5	0.01
DM 119	0.025	2.2	70	0.9	0.019	DM 188	0.16	0.4	17	1.6	0.039
DM 120	<0.01	<0.4	5	<0.5	0.008	DM 190	0.63	2.4	29	1.4	0.127
DM 121	<0.01	<0.4	7	<0.5	0.007	DM 192	<0.01	<0.4	2	<0.5	0.022
DM 122	<0.01	<0.4	13	<0.5	0.025	DM 193	<0.01	<0.4	3	<0.5	0.052
DM 123	<0.01	<0.4	7	<0.5	0.037	DS 061	0.01	0.4	<1	<0.5	0.018
DM 124	<0.01	<0.4	10	0.8	0.038	DS 065	<0.01	<0.4	2	<0.5	0.021
DM 125	0.063	2.2	110	1.3	0.043	DS 067	<0.01	0.4	<1	<0.5	0.016
DM 126	0.085	2.9	50	0.8	0.024	DS 069	0.01	<0.4	10	<0.5	0.052
DM 127	0.06	<0.4	80	0.8	0.021	DS 070	0.045	<0.4	9	<0.5	0.073
DM 128	0.288	0.9	240	1.9	0.038	DS 071	0.015	<0.4	3	<0.5	0.058
DM 129	0.028	0.5	25	<0.5	0.017	DS 074	0.02	<0.4	2	<0.5	0.014
DM 130	0.557	0.4	390	2	0.083	DS 076	0.688	3.4	220	1.9	0.033
DM 131	2.85	0.7	210	2.4	0.136	DS 079	0.157	<0.4	70	1	0.032
DM 132	0.072	1	80	1.5	0.04	DS 080	0.282	1.1	285	1.5	0.027
DM 133	<0.01	<0.4	<1	0.6	0.019	DS 081	0.015	<0.4	24	0.7	0.026
DM 134	0.137	<0.4	90	0.9	0.044	DS 082	0.04	0.4	80	0.6	0.025
DM 135	0.327	0.9	130	1.3	0.042	DS 083	<0.01	<0.4	4	<0.5	0.026
DM 136	0.11	0.8	95	1.1	0.052	DS 084	0.466	6.1	270	1.7	0.038
DM 137	0.027	0.4	55	0.8	0.023	DS 085	<0.01	<0.4	4	<0.5	0.038
DM 138	2.11	2.2	65	1	0.039	DS 086	0.05	<0.4	65	0.6	0.052
DM 139	0.112	0.5	105	1.1	0.018	DS 088	0.024	<0.4	1	<0.5	0.041
DM 140	4.05	78	520	2.9	0.022	DS 089	0.015	0.5	10	<0.5	0.106
DM 141	0.5	0.7	135	1.8	0.047	DS 092	<0.01	<0.4	<1	<0.5	0.015
DM 142	3.2	4.1	285	7.6	0.382	DS 093	<0.01	<0.4	12	<0.5	0.015
DM 143	0.75	0.5	70	2.3	0.059	DS 094	0.015	0.4	3	<0.5	0.008
DM 144	<0.01	<0.4	5	0.6	0.041	DS 096	0.45	11.8	1100	6.6	0.36
DM 145	0.05	1.4	55	1	0.026	NB 006	0.018	1.4	3	0.7	0.039
DM 146	0.08	0.4	50	1.5	0.079	NB 008	0.296	<0.4	9	<0.5	0.307
DM 147	0.77	1.1	150	3.8	0.068	NB 009	0.545	<0.4	7	<0.5	0.022
DM 148	0.86	1.3	305	2.4	0.075	NB 012	0.01	<0.4	<1	<0.5	0.042
DM 149	0.135	0.6	115	1.6	0.088	NB 016	<0.01	<0.4	<1	<0.5	0.025
DM 150	0.23	0.4	205	1.8	0.077	NB 019	<0.01	<0.4	<1	<0.5	0.023
DM 151	0.01	<0.4	31	1	0.068	NB 021	<0.01	<0.4	<1	<0.5	0.026
DM 152	<0.01	<0.4	12	0.6	0.043	NB 023	<0.01	<0.4	<1	<0.5	0.021
DM 153	<0.01	<0.4	23	1	0.014	NB 027	<0.01	<0.4	<1	<0.5	0.088
DM 154	0.05	0.5	15	<0.5	0.015	NB 028	<0.01	<0.4	<1	<0.5	0.022
DM 155	0.03	0.6	65	1	0.014	NB 029	<0.01	<0.4	<1	<0.5	0.038
DM 156	0.23	<0.4	345	2.3	0.014	NB 030	<0.01	<0.4	<1	<0.5	0.036
DM 157	<0.01	1.3	23	1.1	0.014	NB 031	<0.01	<0.4	<1	<0.5	0.021
DM 158	0.01	<0.4	20	1.2	0.017	NB 033	<0.01	<0.4	2	<0.5	0.031
DM 159	0.015	<0.4	31	0.9	0.013	NB 034	<0.01	<0.4	6	<0.5	0.112
DM 160	0.01	0.4	100	0.8	0.017	NB 037	<0.01	<0.4	2	<0.5	0.029
DM 161	0.02	0.6	75	1.2	0.018	NB 043	0.01	<0.4	5	<0.5	0.016
DM 162	0.12	0.5	245	2.1	0.018	NB 045	<0.01	<0.4	29	<0.5	0.048
DM 163	0.18	0.9	180	1.1	0.014	NB 048	<0.01	<0.4	<1	<0.5	0.022

Table A-4(3) Results of Chemical Analysis of Rock Samples(3)

Element Unit	Au (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Element Unit	Au (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)
Detection	0.01(0.008)	0.4	1	0.5	0.005	Detection	0.01(0.008)	0.4	1	0.5	0.005
NB 050	<0.01	<0.4	<1	<0.5	0.025	NK 058	<0.01	<0.4	14	<0.5	0.141
NB 053	<0.01	<0.4	3	<0.5	0.041	NK 059	<0.01	<0.4	50	0.8	0.114
NB 055	<0.01	<0.4	5	<0.5	0.01	NM 002	<0.01	<0.4	<1	<0.5	0.014
NB 058	<0.01	<0.4	14	<0.5	0.023	NM 003	<0.01	<0.4	<1	<0.5	0.016
NB 061	0.02	<0.4	<1	<0.5	0.034	NM 005	<0.01	<0.4	<1	<0.5	0.018
NB 065	<0.01	<0.4	3	0.7	0.016	NM 006	<0.01	<0.4	<1	<0.5	0.019
NB 067	0.01	<0.4	<1	<0.5	0.027	NM 007	<0.01	<0.4	<1	<0.5	0.026
NB 070	<0.01	<0.4	<1	<0.5	0.025	NM 008	<0.01	<0.4	<1	<0.5	0.015
NB 073	<0.01	<0.4	1	<0.5	0.039	NM 009	<0.01	<0.4	<1	<0.5	0.021
NB 077	0.01	<0.4	<1	<0.5	0.035	NM 010	<0.01	<0.4	<1	<0.5	0.018
NB 080	<0.01	<0.4	<1	<0.5	0.042	NK 012	<0.01	<0.4	1	<0.5	0.024
NB 081	<0.01	<0.4	4	<0.5	0.019	NM 014	<0.01	<0.4	2	<0.5	0.018
NB 087	<0.01	<0.4	<1	0.7	0.025	NM 017	<0.01	0.5	27	<0.5	0.023
NB 088	<0.01	<0.4	<1	<0.5	0.034	NM 018	<0.01	<0.4	3	<0.5	0.031
NB 089	<0.01	<0.4	1	<0.5	0.036	NM 024	<0.01	0.4	7	0.9	0.021
NB 090	<0.01	<0.4	<1	<0.5	0.021	NM 025	<0.01	<0.4	1	<0.5	0.037
NB 091	<0.01	<0.4	<1	<0.5	0.029	NM 026	<0.01	<0.4	<1	<0.5	0.018
NB 092	<0.01	<0.4	<1	<0.5	0.036	NM 027	<0.01	<0.4	<1	<0.5	0.022
NB 093	<0.01	0.4	<1	<0.5	0.024	NM 028	<0.01	<0.4	5	<0.5	0.03
NB 094	0.01	<0.4	3	<0.5	0.075	NM 029	<0.01	<0.4	<1	<0.5	0.022
NB 096	<0.01	0.7	3	<0.5	0.123	NM 030	<0.01	<0.4	<1	<0.5	0.016
NB 097	<0.01	<0.4	3	<0.5	0.029	NM 033	<0.01	<0.4	3	0.8	0.323
NB 099	0.013	5.3	<1	<0.5	0.138	NM 034	<0.01	1.7	12	<0.5	0.023
NB 100	<0.01	<0.4	2	<0.5	0.02	NM 035	<0.01	<0.4	<1	<0.5	0.025
NB 101	0.01	<0.4	3	<0.5	0.039	NM 036	<0.01	8.9	2	<0.5	0.021
NB 102	<0.01	<0.4	<1	<0.5	0.032	NM 037	<0.01	0.7	16	<0.5	0.022
NB 103	0.012	<0.4	<1	<0.5	0.025	NM 038	0.012	<0.4	2	<0.5	0.021
NB 104	<0.01	0.8	3	<0.5	0.029	NM 040	<0.01	<0.4	<1	<0.5	0.02
NB 105	<0.01	<0.4	<1	<0.5	0.063	NM 041	<0.01	<0.4	<1	<0.5	0.021
NK 001	0.1	<0.4	9	<0.5	0.017	NM 042	<0.01	<0.4	<1	<0.5	0.021
NK 002	<0.01	<0.4	28	<0.5	0.019	NM 043	0.05	<0.4	29	<0.5	0.025
NK 003	<0.01	<0.4	5	<0.5	0.02	NM 044	0.103	<0.4	20	0.8	0.061
NK 018	<0.01	<0.4	5	<0.5	0.025	NM 045	0.01	<0.4	8	<0.5	0.024
NK 019	0.026	<0.4	6	<0.5	0.021	NM 046	0.015	<0.4	60	1.4	0.218
NK 020	0.127	0.8	<1	<0.5	0.019	NM 047	0.026	<0.4	42	0.8	0.036
NK 021	0.02	<0.4	6	<0.5	0.02	NM 048	0.01	6.5	6	0.6	0.071
NK 022	0.192	0.6	18	<0.5	0.021	NM 049	0.018	0.7	6	0.6	0.028
NK 026	0.022	0.4	7	<0.5	0.048	NM 050	0.026	<0.4	20	0.6	0.027
NK 027	0.08	<0.4	7	<0.5	0.047	NM 051	0.01	2.1	60	1.2	0.03
NK 029	12.9	10.4	5	0.6	0.011	NM 052	0.01	<0.4	70	1.1	0.029
NK 030	1.89	0.6	8	<0.5	0.035	NM 053	<0.01	<0.4	60	1.1	0.049
NK 031	0.096	<0.4	2	<0.5	0.029	NM 054	0.012	3.2	5	<0.5	0.023
NK 032	0.064	<0.4	<1	<0.5	0.021	NM 055	<0.01	<0.4	3	<0.5	0.023
NK 033	9.78	2.3	3	<0.5	0.007	NM 056	<0.01	1.4	31	1.3	0.107
NK 034	0.01	<0.4	23	0.7	0.02	NM 057	0.015	<0.4	5	0.6	0.024
NK 035	0.115	<0.4	2	<0.5	0.028	NM 058	0.05	<0.4	5	<0.5	0.034
NK 037	6.69	0.5	3	<0.5	0.031	NM 059	0.266	<0.4	5	<0.5	0.024
NK 038	4.24	0.6	7	<0.5	0.051	NM 060	1.26	0.9	21	1.8	0.048
NK 039	1.84	0.7	19	<0.5	0.161	NM 061	0.316	<0.4	60	1.1	0.033
NK 040	0.86	0.4	12	<0.5	0.032	NM 062	2.46	1.9	3	<0.5	0.074
NK 041	0.07	2.3	90	1.5	0.049	NM 063	0.305	<0.4	2	<0.5	0.024
NK 042	0.01	1.8	11	1.8	0.032	NM 064	1.83	<0.4	4	<0.5	0.116
NK 043	0.011	5.4	37	1.6	0.04	NM 065	0.016	<0.4	<1	<0.5	0.026
NK 044	0.04	14.9	22	14.3	0.045	NM 066	0.025	3.3	120	4	0.312
NK 045	0.025	10.4	120	2.4	0.145	NM 067	<0.01	5.4	140	6.7	0.485
NK 046	0.049	1.6	90	2.9	0.109	NM 068	0.02	9.8	70	1.9	0.108
NK 047	0.086	5.4	50	1.6	0.054	NM 069	<0.01	2.9	190	2.9	0.184
NK 048	0.01	<0.4	1	<0.5	0.046	NM 070	0.152	5	70	2.1	0.108
NK 049	0.06	8.2	70	1	0.079	NM 071	0.016	2.7	210	4.1	0.184
NK 050	<0.01	<0.4	<1	0.6	0.098	NM 072	0.01	1.4	7	0.9	0.188
NK 051	<0.01	<0.4	<1	<0.5	0.092	NM 073	<0.01	2.2	10	0.6	0.128
NK 052	<0.01	<0.4	2	<0.5	0.024	NM 074	<0.01	2.5	4	<0.5	0.08
NK 053	<0.01	<0.4	<1	<0.5	0.021	NM 075	<0.01	1.4	20	<0.5	0.034
NK 054	<0.01	0.4	<1	<0.5	0.022	NM 076	<0.01	1	60	1.6	0.388
NK 056	<0.01	<0.4	<1	<0.5	0.067	NS 010	<0.01	0.9	28	1.1	0.181

Table A-4(4) Results of Chemical Analysis of Rock Samples(4)

Element Unit	Au (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Element Unit	Au (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)
Detection	0.01(0.008)	0.4	1	0.5	0.005	Detection	0.01(0.008)	0.4	1	0.5	0.005
NS 012	<0.01	1.1	20	<0.5	0.05	WB 220	2.67	0.5	22	0.9	0.011
NS 013	0.01	1	80	1.2	0.027	WB 221	0.598	0.5	50	1.8	0.023
NS 018	<0.01	<0.4	<1	<0.5	0.042	WB 222	1.9	0.5	85	1.4	0.011
NS 019	0.01	<0.4	<1	<0.5	0.03	WB 223	0.921	1.5	220	1.6	0.057
NS 020	<0.01	<0.4	<1	<0.5	0.02	WB 224	2.51	3.5	36	1	0.019
NS 021	<0.01	<0.4	<1	0.8	0.022	WB 225	0.517	<0.4	110	1.8	0.046
NS 022	<0.01	<0.4	<1	0.8	0.024	WB 226	1.1	0.5	50	0.9	0.035
NS 023	<0.01	<0.4	<1	<0.5	0.043	WB 228	0.711	1.5	50	0.9	0.092
NS 024	<0.01	<0.4	<1	<0.5	0.039	WB 230	4.3	2	60	1.3	0.014
NS 025	<0.01	<0.4	<1	<0.5	0.024	WB 231	0.314	1.5	100	1.5	0.013
NS 026	0.27	0.4	2	<0.5	0.023	WB 234	0.915	<0.4	315	2.4	0.017
NS 027	<0.01	<0.4	1	<0.5	0.031	WB 235	4.22	1	60	1.5	0.008
NS 028	0.83	0.5	21	<0.5	0.046	WD 004	3.65	4	33	0.8	<0.005
NS 029	<0.01	<0.4	1	<0.5	0.048	WD 005	4.03	2.5	15	0.6	<0.005
NS 030	<0.01	<0.4	<1	<0.5	0.021	WD 008	0.347	<0.4	190	2.3	0.02
NS 031	<0.01	<0.4	<1	<0.5	0.024	WD 009	1.55	<0.4	210	1.6	0.066
NS 032	<0.01	<0.4	<1	<0.5	0.043	WD 011	<0.008	<0.4	2	<0.5	<0.005
NS 033	<0.01	<0.4	<1	<0.5	0.024	WK 204	<0.008	<0.4	25	0.9	<0.005
NS 034	<0.01	<0.4	<1	<0.5	0.018	WK 210	3.28	0.5	14	0.6	<0.005
NS 035	<0.01	<0.4	<1	<0.5	0.025	WK 211	0.572	0.5	75	1.1	0.011
NS 036	0.025	<0.4	<1	<0.5	0.02	WK 212	2.41	0.5	4	<0.5	<0.005
NS 037	<0.01	<0.4	<1	<0.5	0.02	WK 213	0.917	0.5	23	0.9	0.034
NS 038	<0.01	<0.4	<1	<0.5	0.018	WK 214	5.45	1	10	0.6	0.005
NS 039	0.015	<0.4	<1	<0.5	0.029	WK 215	24.2	2.5	3	<0.5	0.011
NS 040	0.163	<0.4	2	<0.5	0.021	WK 216	10.6	1	50	1.1	0.025
NS 041	0.09	<0.4	<1	<0.5	0.032	WK 217	0.147	<0.4	1	<0.5	0.018
NS 042	<0.01	<0.4	<1	<0.5	0.023	WK 218	0.173	<0.4	5	0.9	0.015
NS 043	<0.01	<0.4	<1	<0.5	0.024	WK 219	0.032	<0.4	3	<0.5	0.232
NS 044	<0.01	<0.4	<1	<0.5	0.03	WK 224	0.017	<0.4	6	<0.5	0.005
NS 046	<0.01	<0.4	<1	<0.5	0.025	WK 225	<0.008	<0.4	3	<0.5	<0.005
NS 049	<0.01	<0.4	7	<0.5	0.128	WK 227	0.591	0.5	14	0.8	0.257
NS 050	<0.01	<0.4	13	<0.5	0.131	WM 196	<0.008	<0.4	2	<0.5	0.024
NS 051	<0.01	<0.4	<1	<0.5	0.021	WM 200	<0.008	<0.4	2	<0.5	0.025
NS 052	<0.01	<0.4	<1	<0.5	0.026	WM 203	<0.008	<0.4	2	<0.5	<0.005
NS 053	<0.01	<0.4	<1	<0.5	0.024	WM 204	<0.008	<0.4	2	<0.5	0.012
NS 054	<0.01	<0.4	<1	<0.5	0.02	WM 205	0.092	<0.4	140	1	<0.005
NS 055	<0.01	<0.4	<1	<0.5	0.023	WM 207	0.01	<0.4	80	0.8	<0.005
NS 056	0.03	<0.4	<1	<0.5	0.018	WM 208	<0.008	<0.4	23	0.6	0.013
NS 057	0.16	<0.4	1	<0.5	0.031	WM 210	0.01	<0.4	60	1.2	0.035
NS 058	0.13	<0.4	2	<0.5	0.034	WM 211	0.015	<0.4	115	1	<0.005
WB 181	<0.008	<0.4	1	<0.5	0.01	WM 217	1.78	0.5	50	0.9	0.014
WB 185	<0.008	<0.4	2	<0.5	<0.005	WM 218	2.39	<0.4	55	1.1	0.01
WB 202	<0.008	<0.4	1	<0.5	0.005	WM 219	42.5	7	8	0.6	0.007
WB 204	0.02	<0.4	7	<0.5	0.024	WM 220	1.66	<0.4	265	1.9	0.093
WB 205	<0.008	<0.4	11	<0.5	0.012	WM 221	0.207	<0.4	8	0.8	0.026
WB 206	0.063	<0.4	5	<0.5	0.033	WM 224	0.127	<0.4	16	0.7	0.02
WB 207	1.68	<0.4	460	1.6	0.023	WM 225	0.079	<0.4	75	1.1	0.035
WB 208	1.71	1	43	1.1	0.049	WM 226	0.064	<0.4	25	0.8	0.082
WB 209	0.641	<0.4	135	1	0.097	WM 227	0.031	<0.4	23	1	0.026
WB 210	3.45	1.5	30	1.2	0.042	WM 228	0.107	<0.4	32	0.7	0.039
WB 211	0.921	3	50	0.8	0.014	WS 103	<0.008	<0.4	2	<0.5	0.006
WB 212	0.274	<0.4	115	0.8	0.043	WS 104	<0.008	<0.4	4	<0.5	0.007
WB 213	1.57	1	45	0.7	0.008	WS 105	0.017	<0.4	1	<0.5	<0.005
WB 214	0.637	1.5	50	1.1	0.017	WS 106	0.132	0.5	11	0.6	0.064
WB 215	0.212	<0.4	155	1.7	0.008	WS 108	<0.008	<0.4	2	<0.5	<0.005
WB 216	<0.008	<0.4	<1	<0.5	<0.005	WS 115	<0.008	<0.4	7	<0.5	0.01
WB 217	1.78	0.5	15	1	0.007	WS 116	0.04	<0.4	5	<0.5	0.005
WB 218	1.02	0.5	90	1.6	0.028	WS 117	0.097	1	34	0.8	0.025
WB 219	0.297	<0.4	145	1.5	0.018						

Table A-4(5) Results of Chemical Analysis of Drill Core Samples(5)

MJFV-1

Sample No.	Depth(m)	Width(m)	Au(g/t)	Ag(g/t)	As(ppm)	Sb(ppm)	Hg(ppm)
ND101	120.00 - 120.10	0.10	0.008	0.6	4.0	<0.5	0.006
ND102	120.10 - 120.20	0.10	0.100	0.7	13.0	<0.5	0.010
ND103	120.20 - 120.40	0.20	0.318	2.1	3.0	<0.5	0.005
ND104	120.40 - 120.45	0.05	5.76	90	40.0	0.9	0.047
ND105	120.45 - 120.80	0.35	0.404	3.5	38.0	<0.5	0.047
ND120	255.50 - 255.58	0.08	0.023	0.6	2.0	<0.5	0.009
ND124	212.20 - 212.50	0.30	0.011	<0.4	2.0	<0.5	<0.005
ND131	75.80 - 76.85	1.05	<0.008	<0.4	1.0	<0.5	<0.005
ND133	60.80 - 61.00	0.20	0.029	3	46.0	3.8	1.750

MJFV-2

Sample No.	Depth(m)	Width(m)	Au(g/t)	Ag(g/t)	As(ppm)	Sb(ppm)	Hg(ppm)
ND202	50.00 - 51.00	1.00	0.059	1.6	12.0	<0.5	0.009
ND212	250.50 - 250.57	0.07	<0.008	<0.4	3.0	<0.5	0.012
ND214	118.20 - 118.40	0.20	0.094	4.9	26.0	<0.5	0.009
ND215	118.40 - 118.45	0.05	0.890	1.4	8.0	<0.5	<0.005
ND216	118.45 - 118.55	0.10	0.895	1.6	2.0	<0.5	<0.005
ND217	118.55 - 118.70	0.15	0.254	1.1	3.0	<0.5	<0.005
ND218	118.70 - 118.75	0.05	0.845	3	3.0	<0.5	<0.005
ND220	195.10 - 195.20	0.10	0.010	<0.4	2.0	<0.5	<0.005
ND221	195.50 - 195.60	0.10	0.032	<0.4	3.0	<0.5	<0.005
ND222	186.00 - 186.18	0.18	0.018	<0.4	3.0	<0.5	<0.005
ND227	53.30 - 54.70	1.40	0.031	1	37.0	0.6	0.338
ND231	245.35 - 246.35	1.00	0.010	<0.4	1.0	<0.5	<0.005

MJFV-3

Sample No.	Depth(m)	Width(m)	Au(g/t)	Ag(g/t)	As(ppm)	Sb(ppm)	Hg(ppm)
ND303	67.40 - 67.55	0.15	0.010	<0.4	<1	<0.5	<0.005
ND306	104.40 - 104.90	0.50	0.638	1.6	85.0	11.9	0.023
ND309	152.10 - 152.20	0.10	5.06	<0.4	6.0	<0.5	0.005
ND310	152.20 - 152.25	0.05	2.04	1	7.0	<0.5	0.005
ND311	250.25 - 250.65	0.40	0.021	0.4	2.0	<0.5	<0.005
ND312	250.65 - 250.78	0.13	0.012	1	1.0	<0.5	<0.005
ND313	250.78 - 250.95	0.17	0.015	<0.4	<1	<0.5	<0.005
ND331	174.60 - 175.60	1.00	0.014	<0.4	<1	<0.5	<0.005
ND333	176.60 - 177.60	1.00	0.010	<0.4	<1	<0.5	<0.005
ND337	152.00 - 152.10	0.10	0.835	<0.4	<1	<0.5	<0.005

Table A-4(6) Results of Chemical Analysis of Drill Core Samples(1)

MJFV-4

Sample No.	Depth(m)		Width(m)	Au(g/t)	Ag(g/t)	As(ppm)	Sb(ppm)	Hg(ppm)
DD413	138.15	- 138.25	0.10	<0.008	0.4	20	<0.5	<0.005
DD414	138.25	- 138.35	0.10	0.231	2.6	60	<0.5	0.005
DD415	138.35	- 138.50	0.15	0.011	0.5	<20	<0.5	0.007
DD416	138.50	- 138.65	0.15	0.613	3	215	<0.5	0.016
DD417	138.65	- 139.00	0.35	0.155	3.4	70	<0.5	0.006
DD418	180.95	- 181.45	0.50	0.056	4.2	145	<0.5	0.021
DD419	181.45	- 181.80	0.35	0.033	1.4	30	<0.5	0.010
DD420	181.80	- 182.20	0.40	0.052	2.5	200	<0.5	0.013
DD421	182.20	- 182.60	0.40	0.191	3.8	200	<0.5	0.012
DD422	183.80	- 184.40	0.60	0.041	1.1	50	<0.5	0.006
DD423	190.40	- 190.60	0.20	0.393	2.3	100	<0.5	0.012
DD424	190.60	- 190.90	0.30	0.236	1.4	90	<0.5	0.013
DD425	190.90	- 191.20	0.30	0.790	5.8	220	<0.5	0.016
DD426	191.20	- 191.30	0.10	0.195	2.9	225	<0.5	0.005
DD427	295.00	- 295.12	0.12	0.009	0.5	20	<0.5	<0.005

MJFV-5

Sample No.	Depth(m)		Width(m)	Au(g/t)	Ag(g/t)	As(ppm)	Sb(ppm)	Hg(ppm)
DD501	121.45	- 121.80	0.35	0.291	5.4	350	<0.5	0.031
DD502	121.80	- 122.25	0.45	2.71	165	350	<0.5	0.047
DD503	122.25	- 122.75	0.50	13.5	140	300	1.5	0.049
DD504	122.75	- 123.35	0.60	27.6	900	320	1.2	0.017
DD505	123.35	- 123.65	0.30	0.545	8.3	300	1.4	0.045
DD506	152.40	- 152.70	0.30	0.244	14.7	220	0.6	0.015
DD507	152.70	- 153.00	0.30	3.55	16.5	220	0.8	0.023
DD508	153.00	- 153.40	0.40	1.27	4.6	90	<0.5	0.034
DD509	163.60	- 164.00	0.40	11.7	4.3	210	<0.5	0.005
DD510	164.10	- 164.40	0.30	1.51	1.5	30	<0.5	0.005
DD511	172.40	- 172.70	0.30	0.706	1.3	50	<0.5	0.005
DD512	172.70	- 173.00	0.30	0.192	1.2	40	<0.5	0.005
DD513	182.00	- 182.30	0.30	0.498	1.5	50	<0.5	<0.005
DD514	185.00	- 185.20	0.20	5.02	4	110	<0.5	0.009
DD515	186.10	- 186.30	0.20	1.05	1.7	140	<0.5	0.056
DD517	132.20	- 132.40	0.20	1.27	7.6	240	<0.5	0.097
DD518	135.20	- 135.40	0.20	0.362	5.1	300	<0.5	0.012
DD519	136.05	- 136.25	0.20	7.71	9.9	200	<0.5	0.050

Table A-4(7) Results of Chemical Analysis of Drill Core Samples(2)

MJFV-6

Sample No.	Depth(m)	Width(m)	Au(g/t)	Ag(g/t)	As(ppm)	Sb(ppm)	Hg(ppm)
DD615	55.35 - 55.55	0.20	<0.008	<0.4	2.0	<0.5	0.011
DD617	61.00 - 61.30	0.30	<0.008	<0.4	1.5	<0.5	0.012
DD618	61.30 - 61.40	0.10	<0.008	<0.4	1.0	<0.5	0.022
DD619	61.40 - 61.70	0.30	<0.008	<0.4	1.0	<0.5	0.009
DD620	68.90 - 69.90	1.00	<0.008	<0.4	1.5	<0.5	0.009
DD621	71.55 - 72.55	1.00	<0.008	<0.4	6.5	<0.5	0.027
DD622	127.10 - 128.50	1.40	0.016	<0.4	25.5	<0.5	0.008
DD623	96.10 - 96.30	0.20	<0.008	<0.4	48.5	0.5	0.047
DD624	112.00 - 113.00	1.00	<0.008	<0.4	29.0	<0.5	0.009
DD625	114.00 - 114.20	0.20	<0.008	<0.4	24.0	<0.5	0.030
DD626	114.70 - 115.60	0.90	<0.008	<0.4	35.0	<0.5	0.020
DD627	120.10 - 120.30	0.20	0.208	<0.4	42.5	<0.5	0.007
DD628	122.10 - 122.30	0.20	0.198	<0.4	100	0.6	0.010
DD629	124.40 - 125.00	0.60	0.150	<0.4	44.5	<0.5	0.014
DD638	272.55 - 273.10	0.55	0.039	0.8	36.5	<0.5	0.012
DD640	297.00 - 297.25	0.25	0.069	0.4	120	<0.5	0.011
DD641	75.05 - 75.90	0.85	0.036	<0.4	28.0	<0.5	0.020
DD642	75.00 - 75.05	0.05	0.048	<0.4	50.0	<0.5	0.013
DD643	74.40 - 74.55	0.15	<0.008	<0.4	3.0	<0.5	0.010
DD644	77.70 - 78.55	0.85	<0.008	<0.4	12.5	1.3	0.016
DD645	79.30 - 79.70	0.40	0.010	0.6	32.5	<0.5	0.013
DD646	256.90 - 259.20	2.30	<0.008	0.5	50.0	<0.5	0.008

MJFV-7

Sample No.	Depth(m)	Width(m)	Au(g/t)	Ag(g/t)	As(ppm)	Sb(ppm)	Hg(ppm)
DD721	226.60 - 226.90	0.30	0.160	4	85	1.6	0.084
DD722	226.90 - 227.50	0.60	0.041	2	54	0.6	0.038
DD723	227.50 - 227.60	0.10	2.32	6	226	2.2	0.045
DD724	227.60 - 227.90	0.30	0.591	3	108	0.6	0.150
DD725	227.90 - 228.00	0.10	0.962	6	112	0.6	0.016
DD726	249.90 - 251.05	1.15	0.162	2	56	<0.5	0.010
DD727	251.05 - 251.20	0.15	3.13	2	102	0.9	0.092
DD745	251.20 - 251.50	0.30	0.610	3	148	0.7	0.016
DD728	251.50 - 251.60	0.10	0.842	2	186	1.4	0.093
DD729	251.60 - 252.20	0.60	0.122	<2	82	<0.5	0.013
DD730	252.20 - 252.30	0.10	0.532	2	126	1.1	<0.005
DD731	252.30 - 253.20	0.90	0.496	2	105	<0.5	0.012
DD732	253.20 - 253.70	0.50	0.612	3	152	0.7	0.013
DD733	259.10 - 259.65	0.55	0.288	2	50	<0.5	<0.005
DD734	259.65 - 259.75	0.10	0.401	2	68	<0.5	<0.005
DD735	259.75 - 260.20	0.45	0.221	2	50	<0.5	<0.005
DD736	303.90 - 304.20	0.30	<0.008	<2	23	<0.5	<0.005
DD737	338.40 - 338.60	0.20	<0.008	2	11	<0.5	<0.005

Table A-4(8) Results of Chemical Analysis of Drill Core Samples(3)

MJFV-8

Sample No.	Depth(m)	Width(m)	Au(g/t)	Ag(g/t)	As(ppm)	Sb(ppm)	Hg(ppm)
DD822	116.80 - 117.25	0.45	0.228	4	86	1.0	0.093
DD837	125.10 - 125.40	0.30	0.478	2	60	1.0	0.008
DD823	125.40 - 125.60	0.20	3.13	3	80	1.1	0.013
DD833	125.60 - 126.60	1.00	0.416	2	50	<0.5	0.008
DD824	126.60 - 127.70	1.10	0.406	2	146	<0.5	<0.005
DD834	128.15 - 129.25	1.10	1.88	2	69	<0.5	<0.005
DD825	141.45 - 141.70	0.25	0.471	6	350	1.6	<0.005
DD826	142.60 - 143.00	0.40	0.473	6	265	1.6	<0.005
DD827	241.20 - 241.24	0.04	<0.008	<2	5	<0.5	<0.005
DD828	118.10 - 118.60	0.50	0.551	2	86	0.6	0.028
DD829	122.10 - 122.50	0.40	0.918	2	50	<0.5	0.009
DD830	122.50 - 123.50	1.00	0.654	2	96	0.8	0.150
DD831	123.50 - 123.80	0.30	0.203	2	86	<0.5	0.009
DD832	124.30 - 124.70	0.40	0.319	4	61	1.2	0.023
DD835	279.90 - 280.70	0.80	<0.008	<2	13	<0.5	<0.005

MJFV-9

Sample No.	Depth(m)	Width(m)	Au(g/t)	Ag(g/t)	As(ppm)	Sb(ppm)	Hg(ppm)
DD901	87.20 - 87.30	0.10	1.01	2	60	<0.5	0.04
DD902	88.10 - 88.45	0.35	0.562	3	102	0.7	0.015
DD903	88.45 - 88.50	0.05	0.516	4	110	0.7	0.010
DD904	88.50 - 88.70	0.20	0.262	2	106	0.6	0.013
DD905	90.70 - 91.35	0.65	0.436	3	128	0.8	0.027
DD906	91.35 - 91.55	0.20	0.291	4	130	1.0	0.012
DD907	91.55 - 91.70	0.15	0.020	2	50	<0.5	0.009
DD908	91.70 - 91.95	0.25	0.051	2	100	<0.5	0.014
DD909	91.95 - 93.00	1.05	0.101	2	63	<0.5	0.016
DD910	93.00 - 93.05	0.05	0.372	2	63	<0.5	0.016
DD911	93.05 - 93.70	0.65	0.211	2	92	0.6	0.021
DD912	93.70 - 93.75	0.05	0.792	3	112	0.9	0.032
DD913	93.75 - 94.05	0.30	2.33	3	34	0.9	<0.005
DD914	94.05 - 94.10	0.05	0.171	2	23	<0.5	<0.005
DD915	94.10 - 94.75	0.65	0.008	<2	15	<0.5	<0.005
DD916	95.15 - 95.25	0.10	0.401	<2	50	<0.5	0.006
DD917	243.65 - 243.70	0.05	<0.008	<2	1	<0.5	<0.005
DD918	245.35 - 245.50	0.15	<0.008	2	5	<0.5	<0.005
DD919	246.70 - 246.85	0.15	<0.008	<2	3	<0.5	<0.005
DD920	248.60 - 249.00	0.40	<0.008	<2	19	<0.5	0.009
DD921	284.10 - 284.50	0.40	<0.008	2	50	<0.5	<0.005
DD922	289.90 - 290.10	0.20	0.101	6	70	<0.5	0.006

Table A-5(1) Homogenization temperatures of Fluid Inclusions(1)

Sample No.	ND103	ND120	ND310	DD414	DD421	DD505	DD507	DD627	DD638	DD418	DD509	DD622	
Hole No.	MJFV-1	MJFV-1	MJFV-3	MJFV-4	MJFV-4	MJFV-5	MJFV-5	MJFV-6	MJFV-6	MJFV-4	MJFV-5	MJFV-6	
Depth(m)	120.20	255.50	152.20	138.25	182.20	123.35	152.70	120.10	272.55	180.95	163.60	127.10	
Temperature(°C)	221	285	235	181	216	250	233	130	209	237	160	231	
	227	275	257	174	223	245	243	130	241	176	205	229	
	218	283	230	161	225	245	247	130	217	169	241	195	
	228	296	239	173	233	178	260	129	214		207	242	
	225		237	188	184	183	270	131	251		188	208	
			233	177	184	212	253		274		216	239	
			234	136	219		227		269		180	217	
			233	167	228		261		241		158	259	
			234	183	223		261		247		203	255	
			209	181	221		217		240		222	208	
			202	183	233		213		252		208	217	
			245	184	189		192		252		173	218	
			239	204	190		265		250		170	263	
			274	161	243		273		254		190	229	
			238	150	217		177		259		187	222	
			239	173	217		198		269			228	
		214	252	285	217		249		228			233	
			252	174	214		257		269			234	
			239	187	191		230		253			231	
			237	186	167		251		251			250	
			250	176					234				
			243	204									
			228	183									
			271	190									
	number	16	4	24	24	20	6	20	5	21	3	15	20
	average	220	285	240	182	212	219	239	130	249	194	194	230
max	228	296	274	285	243	250	273	131	294	237	241	263	
min	206	275	202	136	167	178	177	123	209	163	158	195	
standard deviation	6	9	16	27	20	33	27	1	21	37	24	18	
mode	221		239	183	217	245	261	130	269			231	

Table A-5(2) Homogenization temperatures of Fluid Inclusions(2)

Sample No.	DD740	DD742	DD818	DD914	DD916	DD922
Hole No.	MJFV-7	MJFV-7	MJFV-8	MJFV-8	MJFV-9	MJFV-9
Depth(m)	227.10	251.20	141.45	180.95	94.05	288.90
Temperature(°C)	460	-	345	178	365	317
	407		256	125	406	347
			196	126		268
			192	118		294
			227	125		314
			265	128		351
			223	127		284
			185	131		342
			373	131		288
			232	131		
			317	127		
			336			
			317			
			351			
			293			
			227			
number	2	0	16	11	2	9
average	434		271	132	386	312
max	460		373	178	406	351
min	407		185	118	365	268
standard deviation	37		62	16	29	30
mode			227			

Table A-6 Resistivity and Chargeability of Drill Core Samples

No	Depth(m)	Rock name	ρ	Ch	Alteration
ND106	26.00	Basalt	55	10.3	smectite
ND107	50.60	Lapilli tuff	55	21.7	smectite
ND108	71.70	Basalt	65	6.4	smectite
ND109	99.40	Tuff breccia	43	13.5	mixed layered
ND110	125.00	Basalt	55	6.5	chlorite
ND123	151.80	Basalt	113	0.9	chlorite
ND112	170.20	Basalt	519	1.6	chlorite
ND113	200.50	Tuff breccia	238	2.7	chlorite
ND115	249.00	Tuff breccia	138	3.1	mixed layered
ND116	275.00	Tuff breccia	145	5.9	mixed layered
ND117	300.00	Tuff breccia	177	2.9	mixed layered
ND203	35.70	Lapilli tuff	20	24.2	smectite
ND234	35.70	Coarse tuff	22	3.8	(smectite)
ND205	97.70	tuff breccia	165	4.5	smectite
ND207	120.30	Basalt	168	1.9	smectite
ND229	126.90	Basalt	157	6.3	(smectite)
ND208	147.90	Basalt	104	1.8	smectite
ND209	176.00	Tuff breccia	213	3.2	chlorite
ND240	189.70	Andesite	409	4.6	(chlorite)
ND210	197.45	Andesite	414	3.1	chlorite
ND230	200.00	Tuff breccia	77	0.7	(chlorite)
ND211	225.40	Tuff breccia	82	2.2	chlorite
ND233	238.40	Andesite	107	4.5	(quartz breccia)
ND238	300.00	Tuff breccia	176	3.5	(chlorite)
ND301	28.50	Andesite	243	11.8	(smectite)
ND302	50.00	Andesite	395	1.0	(smectite)
ND304	79.35	Andesite	33	20.3	pyrite diss.
ND305	101.20	Andesite	161	3.4	smectite
ND308	126.40	Andesite	60	11.7	smectite
ND315	175.00	Andesite	954	8.2	silicified
ND316	196.00	Tuff breccia	133	2.5	chlorite
ND317	224.90	Tuff breccia	122	1.1	chlorite
ND318	247.75	Andesite	211	0.8	chlorite
ND319	274.70	Tuff breccia	537	7.6	chlorite
ND320	300.00	Andesite	150	6.3	mixed layered



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