

Appendices

Appendix 1. Correlation Table of Terminology

Appendix 1. Correlation Table of Terminology (1)

MONGOLIAN	RUSSIAN	ENGLISH	JAPANESE
МОНГОЛЬ УЛС БУГА НАЙРАМДАХ МОНГОЛ АРД УЛС (БНМАУ) ЯПОН ЯССБНХОУ ЧЕХОСЛОВАК АРАЧЛАН ГЕРМАН ПОЛЬИ УНГЕР КИТАЙ Уудам Тал Бус ЯПОНЫ ОЛОН УЛСЫН ХАМТИН АЖИЛЛАГААНЫ АГЕНТЛАГ ЯПОНЫ ТОМОРЛОГ УУРХАЙН АГЕНТЛАГ БНМАУ-ЫН УЛСЫН ГЕОЛОГИЙН ТОВ	МОНГОЛИЯ МОНГОЛЬСКОЕ НАРОДНОЕ РЕСПУБЛИКИ (МНР) ЯПОНИЯ СОЮЗ СОВЕТСКИХ СОЦИАЛИСТИЧЕСКИХ РЕСПУБЛИК (СССР) ЧЕХОСЛОВАКИЯ ГЕРМАНСКАЯ ДЕМОКРАТИЧЕСКАЯ РЕСПУБЛИКА (ГДР) ПОЛЬША БЕНЕРИЯ КИТАЙ Уудам Тал Район ЯПОНСКИЙ МЕЖДУНАРОДНЫЙ ОРГАН КООПЕРАЦИЯ ЯПОНСКОЕ АГЕНСТВО ГОРНОГО ДЕЛА ПО МЕТАЛЛАМ ГОСУДАРСТВЕННЫЙ ГЕОЛГИЧЕСКИЙ ЦЕНТР МНР	MONGOLIA MONGOLIAN PEOPLE'S REPUBLIC (MPR) JAPAN (JPN) UNION OF SOVIET SOCIALIST REPUBLICS (USSR) CZECHOSLOVAK SOCIALIST REPUBLIC GERMAN DEMOCRATIC REPUBLIC POLISH PEOPLE'S REPUBLIC HUNGARIAN PEOPLE'S REPUBLIC PEOPLE'S REPUBLIC OF CHINA Uudam Tal Area JAPAN INTERNATIONAL COOPERATION AGENCY (JICA) METAL MINING AGENCY OF JAPAN (MMAJ) STATE GEOLOGICAL CENTER OF THE MONGOLIAN PEOPLE'S REPUBLIC MINISTRY OF GEOLOGY AND MINERAL RESOURCES ULAANBAATAR DORNOD ULZIIIT HENTI DORNOGOVI DUNDGOVI UMNUGOVI Choibalsan Dalanzadgad Lake Khuh	モンゴル国 モンゴル人民共和国 (モンゴル, (モ)) 日本 ソビエト社会主義共和国連邦 (ソ連, (ソ)) チェコスロバキア (チェコ) ドイツ民主共和国 (東独) ポーランド人民共和国 ハンガリー人民共和国 中華人民共和国 オースタムタル地域 国際協力事業団 (JICA) 金属鉱業事業団(MMAJ) モンゴル人民共和国 国家地質 センター 地質鉱物資源省 ウランバートル ドルノト ウルジート ヘンテイ ドルノゴビ (東ゴビ県) ドゥンドゴビ (中央ゴビ県) ウムヌゴビ (南ゴビ県) チョイバルサン ダランザダグ フッフ湖 (モンゴル) ドルノト平原 ゴルバンサイハン山地 ヘンテイ (山地) ハンガイ (山地) ゴビアルタイ山地 イヒシヤンハイ山地 ウルズ川 ガリン川 ケルレン川 県 (アイマグ) 村 (ソム) ドルノト (県) ドルノト平原 チョイバルサン (村) グルバンガサル (村) ダシュバルバル (村) バヤンゾン セルゲレン (村) ドチ (川) ガリン川 フッフ湖 チョイバルサン チンギスハーン ツァウ オラーン ムホル バヤンウール サルヒート デルゲルムンフ ツァガーンチョルトホダク マルダイ フッフ 丘 トゥムルティンオボ ヌフットダワー ハルアイラグ ケルレン川 マンダルゴビ ボルウन्दゥル ルギーンゴル ドルノゴビ (東ゴビ) 県 サインシャンド
ГЕОЛОГИ, ЭРЭС БАЯЛАГИЙН ЯАМ УЛААНБААТАР ДОРНОД ӨЛЗИЙТ ХЭНТИЙ ДОРНОГОВЬ ДУНДГОВЬ ӨМНӨГОВЬ Чойбалсан Даланзадгад Хөх нуур Монголи Дорнод Тал Гурван Сайхан нуруу Хэнтэй Хангай Говь Алтай нуруу Их Шанхай нуруу Улз Гол Галын Гол Хэрлэн Гол Аймаг Сум Дорнод Дорнод Тал Чойбалсан Гурбанзагал Дашбалбар Баяндун Сэргэлэн Дуч Гол Галын Гол Хөх Нуур Чойбалсан Чингэсхаан Цав Улаан Мухар Баян Уур Салхийт Дэлгэр Мөнх Нагав Чулуу Хууч Мардай Хөх Толгой Төмөртийн Овоо Нухут Даваа Хар Айраг Хэрлэн Гол Мандалговь Бор Ундур Лугийнгол Дорноговь Сайншанд	МИНИСТЕРСТВО ГЕОЛОГИИ И МИНЕРАЛЬНЫХ РЕСУРСОВ УЛАН БАТОР ДОРНОД УЛЗИЙТ ХЭНТИЙ ДОРНОГОВЬ ДУНДГОВЬ УМНУГОВЬ Чойбалсан Даланзадгад Озеро Хух Монголи Дорнод Равнина Гурван Сайхан Хэнтэй Хангай Говь Алтай Горная Цепь Их Шанхай Улз Река Галын Река Хэрлэн Река Аймаг Сум Дорнод Дорнод Поле Чойбалсан Гурбанзагал Дашбалбар Баяндун Сэргэлэн Дуч Река Галын Река Озеро Хух Чойбалсан Чингэсхан Цав Улаан Мухар Баян Уур Салхийт Дэлгэр Мунх Нагав Чулуу Хууч Мардай Хух Холм Тумуртийн Овоо Нухут Даваа Хар Айраг Хэрлэн Река Мандалговь Бор Ундур Лугийнгол Дорноговь Сайншанд	Mongol Dornod Plane Gurvan Saihan Mountains Hentei Mts. Hangai Mts. Govi Altai Mts. Ih Shanhai Mts. Ulz River Galın River Kherlen River Aimag Sum Dornod Dornod Plane Choibalsan Gurvanzagal Dashbalbar Bayandun Sergelen Duch River Galın River Lake Khuhu Choibalsan Chingis Khaan Tsav Ulaan Muhar Bayan Uul Salhiit Delger Munh Tsagaan-Chuluut Huduk Mardai Khuhu hill Tumurtiin Ovoo Nuhutt Dawaa Har Airag Kherlen River Mandalgovi Bor Undur Lugiingol Dornogovi Sainshand	

Appendix 1. Correlation Table of Terminology (2)

MONGOLIAN	RUSSIAN	ENGLISH	JAPANESE
Цагаансуврага	Цагаансубурга	Tsagaan suvraga	ツァガーンスヴラグ
Дорноговь	Дорноговь	Dornogovi	ドルノゴビ (東ゴビ県)
Умнуговь	Умнуговь	Umnugovi	ウムヌゴビ (南ゴビ県)
Дундговь	Дундговь	Dundgovi	ドゥンドゴビ (中央ゴビ県)
Даланзадгад	Даланзадгад	Dalanzadgad	ダランザドガド
Мандах	Мандах	Mandaha	マンダハ
Маялай	Маялай	Manlai	マンライ
Цогтдэцй	Цогтдэцй	Tsogttsechii	ツォグトツェツィ
Ханбогд	Ханбогд	Hanbogd	ハンボグト
Баян Овоо	Баян Ово	Bayan Ovoo	バヤンオボ
Улзийт	Улзийт	Ulziit	ウルズイート
Наринхудук	Наринхудук	Narinhuduk	ナリンホダク
Хармагтай	Хармагтай	Harmagtai	ハルマクタイ
Ихэ Шанхай	Ихэ Шанхай	Ih Shanghai	イヒシャンハイ
Дучин Хурал	Дучин Хурал	Duchin Hural	ドゥッチンホラル
Сэрвэн Сухайт	Сэрвэн Сухайт	Serven Suhait	セルベンズハイ
Цагаан Цав	Цагаан Цав	Tsagaan Tsav	ツァガーンツァヴ
Хунгут	Хунгут	Hungut	フングート
Овооту Хира	Овооту Хира	Ovootu Hira	オボートヒラ
Шутэн	Шутэн	Syuten	シュテン
Ухаа Худаг	Ухаа Худук	Uhaa Hudak	ウハアホダク
Өлзийт	Улзийт Район	Ulziit District	ウルジート 地区
Өмнөговь	Умнуговь	Umnugovi	ウムヌゴビ (南ゴビ県)
Дундговь	Дундговь	Dundgovi	ドゥンドゴビ (中央ゴビ県)
Даланзадгад	Даланзадгад	Dalanzadgad	ダランザドガド (市)
Говь Алтай Нуруу	Говь Алтай Горная Деза	Govi Altai Mountains	ゴビアルタイ山脈
Мандал Овоо	Мандал Ово	Mandal Ovoo	マンダロオボ
Цогт Овоо	Цогт Ово	Tsogt Ovoo	ツォグトオボ
Хуртэл Харна	Хуртэл Харна	Hurutel Harna	フルテルハルナ
Чойр	Чойр	Choir	チョイル
Улгий	Улгий	Ulgi	ウルギー
Мушгиа Худаг	Мушугай	Mushgia Hudak	ムシギアホダク
Баян Хушу	Баян Хушу	Bayan Hushuu	バヤンホシュー
Баян Овоот	Баян Овоот	Bayan Ovoot	バヤンオボート
Олон Овоот	Олон Овоот	Olon Ovoot	オロンオボート
Хоримт Худук	Хоримт Худук	Horimt Huduk	ホリムトホダク
Унегт Уул	Унегт Уул	Unegt Uul	ウネグトウール
Бороодон	Бороодон	Boroodon	ボロードン
Тахирга Уул	Тахирга Ула	Tahirga Uula	タヒルガウーラ
Цагаан Уул	Цагаан Ула	Tsagaan Uula	ツァガアンウーラ
Зуун Хайхан Уул	Зуун Хайхан Уул	Zuun Bailhan Uul	ズーンハイハンウール
Хөтөлөг Толгой	Хутул Толгой	Hutuliin Tolgoi	フツリーントルゴイ
Макагсай Хүрэн Уул	Макагсай Хүрэн Уул	Makagaiin Huren Uul	マカングーエンフレンウール
Дагаа Уул	Дагаа Ула	Daaga Uul	ダーガウール
Дугших	Дугших	Dugshih	ドグシヒ
Баян Бор Нуруу	Баян Бор Нуруу	Bayan Bor Nuruu	バヤンボルノロー
Султийн Худаг	Султийн Худаг	Sultiin Hudag	スルティーンホダク
Реперный	Реперный	Reperny	レペルニイ
Хараат Шанд	Хараат Шанд	Haraat Shand	ハラートシャンド
Дэрсэн Ус Худаг	Дэрсэн Ус Худаг	Dersen Us Hudag	デルセンオスホダク
Аягч	Аягч	Ayaguch	アヤグチ
Онх	Онх	Onh	オンホ
Авдрангийн Хар	Авдрангийн Хар	Avdrangiin Har	アブドラングインハル
Сойриг	Сойриг	Soirig	ソイリグ
Мунх Цагаан Толгой	Мунх Цагаан Толгой	Munh Tsagaan Tolgoi	ムンフツァガアントルゴイ
Залаа Уул	Залаа Уул	Zalaa Uul	ザラーウール
Огон Цагаан Толгой	Огон Цагаан Толгой	Ogon Tsagaan Tolgoi	ォンゴウガアントルゴイ
Сологой	Сологой	Sologoi	ソロゴイ
Морит	Морит	Morit	モリト
Хутул Ус	Хутул Ус	Hutul Us	フトウルオス
Өлзийт Овоо	Улзийт Ово	Ulziit Ovoo	ウルジートオボ
Сологой Баян	Сологой Баян	Sologoi Bayan	ソロゴイバヤン
Хезуу Цагаан Уул	Хезуу Цагаан Уул	Hetsuu Tsagaan Uul	ヘツウツァガアントルゴイ
Өндөр Өд	Ундур Өд	Undur Uda	ウンドゥルウダ
Хармагтай Умар	Север Хармагтай	North Harmagtai	ハルマクタイ北
Даянгол	Даянгол	Dayangol	ダヤンゴル
Шувуун Худаг	Шувуун Худаг	Shvuun Hudag	シュブーンホダク
Гурван Сайхан	Гурван Сайхан	Gurvan Saihan	ゴルバンサイハン
Сайр	Сайр	Sair	サイル (瀬川)

Appendix 2. Result of Laboratory Works

Appendix 2- 1 List of Laboratory Works

Appendix 2-1 List of Laboratory Works

Testing items	Quantity					Total
	Geological survey		Geochemical survey	Geophysical survey	Total	
	Reconnaissance survey	Semi-detailed survey				
1. Thin section	20	5	3	-	28	
2. Polished section	10	5	3	-	18	
3. Whole rock chemical analysis	50	5	3	-	58	
4. Ore analysis	208	21	-	-	229	
5. Geochemical analysis						
1) (Au, Ag)	-	-	1,900	-	1,900	
2) (Au, Ag, Hg, As, Sb, W, Mo)	-	500	101	-	601	
6. X-ray diffraction test	100	50	50	-	200	
7. Dating (K-Ar method)	8	1	1	-	10	
8. Fluid inclusion test	74	6	15	-	95	
9. Resistivity measurement test	-	-	-	56	56	
Total	470	593	2,076	56	3,195	

Appendix 2- 2 Microscopic observations (Thin Section)

Appendix 2- 3 Microscopic observations (Polished Section)

Appendix 2-3 MICROSCOPIC OBSERVATION (POLISHED SECTION)

No.	SAMPLE No.	LOCALITY	MINERAL		Pyrite	Pyrrhotite	Magnetite	Hematite	Maghemite	Goethite	Lepidochrosite	Ilmenite	TiO ₂ -Mineral	Oxidic-Manganese	Chalcopyrite	Chalcocite	Covellite	Galena	Native-Gold	Electrum	Native-Silver	COORDINATES	
			ROCK NAME																			EAST	NORTH
1	OH70505	Olon Ovoot	Mn-oxide-qz v.							○				△								104° 11' 32"	44° 21' 57"
2	OST0302	Olon Ovoot	milky wht vqz		•					•											• ?	104° 10' 54"	44° 22' 37"
3	OST0401	Olon Ovoot	silicified sandstone		•					△												104° 11' 01"	44° 21' 37"
4	OST0402	Olon Ovoot	hematite skarn		•		◎			△	△											104° 10' 57"	44° 21' 59"
5	OST0524	Olon Ovoot	silicified dol. sh		•					△												104° 10' 37"	44° 22' 10"
6	O292060	Olon Ovoot	auriferous vqz		•					○											○	Sample numbers show the co-ordinates on the detailed survey grid.	
7	O302100	Olon Ovoot	auriferous vqz		•					◎												(refer to PL. II-4-1)	
8	O084225	Olon Ovoot	milky wht vqz, sulfide		•					○												104° 07' 45"	44° 23' 18"
9	OST0510	Olon Ovoot	milky wht vqz, grn. Cu		•					△			△									104° 56' 2.57"	44° 23' 0.71"
10	SS80702	Dugshih	black min. chal vqz		•					△												104° 52' 37.7"	44° 24' 22.31"
11	BS80814	Dugshih	sulfide bearing vqz		△					○												105° 20' 49.67"	44° 36' 14.09"
12	A81002	Onh	magnetite, qz v.				◎			○												105° 52' 46.58"	45° 50' 9.18"
13	H81715	Soirig	py bearing wht sil r		•					○												106° 14' 32.31"	44° 27' 17.16"
14	H82914	North Harnagtai	vqz		•					○												106° 57' 27.86"	45° 21' 30.05"
15	H82107	Sologoi	oxidid sulf rich vqz		•		◎			○												106° 58' 7.35"	45° 6' 26.63"
16	H82207	Sologoi	dk gry sil r		•					△												106° 36' 30.32"	45° 10' 47.6"
17	S82305	Sologoi	Cp gn bearing vqz		•					○												106° 45' 31.82"	44° 54' 37.37"
18	H82504	Undur Uda	grn Cu sulf. vqz		•					△													

◎: Abundant ○: Common △: Poor ∴: Rare

Appendix 2- 4 Results of whole rock chemical analyses (1)~(2)

Appendix 2- 4 Results of whole rock chemical analyses (1)

sample no.	rock name	SiO ₂ %	TiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	FeO %	MnO %	MgO %	CaO %	Na ₂ O %	K ₂ O %	P ₂ O ₅ %	LOI %	Total	longitude (east)	latitude (north)	
1	A60801	chl microdiorite	53.79	1.57	14.57	7.10	5.24	0.19	3.28	4.84	3.77	0.33	0.47	3.18	98.33	104° 53' 13"	44° 23' 48"
2	A60802	chl diorite	61.76	1.20	14.26	7.27	1.52	0.11	0.90	2.43	4.89	2.23	0.47	3.36	100.40	104° 53' 16"	44° 24' 29"
3	A80901	rhyolite tuff	73.22	0.28	13.96	2.51	0.69	0.09	1.08	0.97	2.48	2.99	0.11	2.47	100.85	105° 08' 47"	44° 23' 02"
4	DH80704	meta-gabbro	54.99	1.46	14.25	5.68	5.32	0.14	3.77	4.66	6.07	0.69	0.26	1.70	98.99	104° 56' 01"	44° 24' 23"
5	DH80805	quartz porphyry	75.96	0.25	12.46	0.86	1.68	0.05	1.77	0.52	3.72	1.13	0.10	1.99	100.49	104° 45' 02"	44° 26' 28"
6	H80905	carbonate rock	4.67	0.06	1.13	0.17	0.25	0.14	1.13	49.88	0.29	0.20	<0.01	40.96	98.88	104° 57' 40"	44° 29' 16"
7	TH80703	rhyolite	80.04	0.24	10.71	0.61	0.29	0.02	0.25	0.60	6.07	0.18	0.09	0.57	99.67	104° 55' 58"	44° 24' 12"
8	A82801	meta-gabbro	51.84	0.89	15.22	4.46	3.21	0.12	5.56	10.18	3.43	1.54	0.24	2.34	99.03	105° 56' 06"	44° 20' 35"
9	A82802	diorite	60.96	0.39	17.42	0.86	2.42	0.16	2.65	3.85	7.31	0.65	0.18	4.16	101.01	105° 54' 59"	44° 23' 48"
10	A82901	mafic schist	54.98	0.67	15.20	2.78	6.25	0.18	4.39	6.52	4.45	1.04	0.25	2.01	98.72	105° 44' 41"	44° 19' 16"
11	A82902	diorite	58.06	0.74	17.36	3.41	1.97	0.11	2.97	3.98	5.40	4.39	0.57	1.32	100.28	105° 44' 35"	44° 18' 49"
12	A82903	chl granodiorite	65.35	0.45	16.35	2.15	1.14	0.06	2.00	2.83	5.64	4.12	0.32	0.89	101.30	105° 45' 35"	44° 18' 27"
13	A83001	green schistose tuff	37.55	0.78	12.07	2.83	4.74	0.22	7.66	11.15	0.55	2.05	0.27	18.88	98.75	105° 57' 25"	44° 25' 08"
14	A81101	altered basalt	51.26	2.63	14.62	7.56	1.60	0.19	1.46	7.76	4.11	1.46	1.60	5.50	99.75	104° 24' 26"	44° 27' 19"
15	A81003	chl granodiorite	62.17	0.33	18.36	1.88	2.43	0.07	3.03	2.96	6.47	0.55	0.34	2.49	101.08	105° 22' 55"	44° 43' 24"
16	H81011	pink granite	77.46	0.08	12.69	0.82	0.34	0.01	0.13	0.35	4.03	4.12	0.11	0.53	100.67	105° 17' 13"	44° 39' 23"
17	H81014	andesite	63.67	0.86	17.10	4.48	0.56	0.05	2.02	2.26	4.69	2.44	0.23	3.03	101.39	105° 21' 44"	44° 43' 43"
18	A81701	pink chl granite	66.82	0.61	16.02	2.98	0.93	0.06	1.07	2.56	4.46	4.14	0.22	1.38	101.25	105° 43' 33"	44° 38' 44"
19	A81702	microdiorite	58.84	0.99	17.54	3.94	2.89	0.15	2.49	5.07	4.69	2.05	0.43	1.66	100.74	105° 44' 29"	44° 39' 04"
20	A81703	rhyolite	70.33	0.35	15.54	1.32	1.07	0.08	0.60	1.24	4.42	3.36	0.19	2.04	100.54	105° 42' 30"	44° 35' 23"
21	A81801	py sil granite	77.33	0.11	12.18	1.13	0.20	<0.01	0.03	0.21	4.33	4.77	0.10	0.47	100.86	105° 53' 09"	44° 50' 20"
22	A81802	granite porphyry	71.97	0.26	14.37	1.98	0.27	0.06	0.33	1.07	4.79	4.16	0.15	0.77	100.18	105° 53' 38"	44° 49' 55"
23	A81803	monzonite	70.46	0.42	14.65	2.16	0.33	0.06	0.68	1.52	3.32	5.40	0.15	1.34	100.49	106° 09' 57"	44° 58' 31"
24	A81804	rhyolite	73.71	0.28	14.23	1.45	0.22	0.01	0.25	0.31	4.36	4.13	0.10	1.05	100.10	106° 14' 34"	44° 58' 13"
25	A81901	granophyre	74.65	0.09	13.48	0.84	0.34	0.01	0.22	0.73	3.79	5.00	0.10	1.08	100.33	106° 51' 32"	44° 16' 25"
26	A82002	granite	74.12	0.13	14.98	0.77	0.20	0.01	0.20	0.62	3.09	5.60	0.15	1.33	101.20	106° 51' 39"	44° 27' 45"
27	A82003	monzonite porphyry	72.04	0.32	14.58	2.33	0.24	0.08	0.17	1.27	7.25	1.43	0.24	0.96	100.91	106° 53' 34"	44° 30' 36"
28	A82101	granite	67.25	0.24	17.08	3.53	0.44	0.04	0.29	0.41	5.44	5.08	0.11	1.43	101.34	106° 59' 17"	44° 22' 31"
29	A82103	rhyolite	76.99	0.03	13.32	0.57	0.18	<0.01	0.11	0.37	2.49	6.04	0.11	0.84	101.05	106° 59' 01"	44° 21' 60"
30	A82104	green trachybasalt	48.95	2.35	17.07	3.58	5.76	0.13	3.14	3.91	4.52	3.50	0.84	5.16	99.01	106° 57' 36"	44° 21' 52"
31	A82105	diorite	52.66	1.28	15.72	1.18	6.41	0.17	6.14	8.26	2.91	2.38	0.22	1.98	99.31	106° 57' 42"	44° 21' 31"
32	A82106	chl basalt	48.44	1.54	16.74	1.72	6.50	0.15	5.49	6.65	3.03	3.03	0.55	4.67	98.87	106° 56' 53"	44° 21' 18"
33	A82110	leucogranite	76.04	0.12	13.20	1.08	0.21	0.02	0.15	0.77	3.58	4.86	0.12	0.55	100.70	106° 46' 31"	44° 19' 59"
34	A82201	chl granite	72.61	0.22	14.02	1.17	0.40	0.01	0.35	0.50	2.52	6.81	0.19	1.42	100.22	106° 53' 58"	44° 05' 27"
35	A82301	nepheline dolerite	47.01	1.42	16.06	4.99	5.12	0.15	6.16	8.18	2.26	0.40	0.21	6.67	98.63	106° 41' 39"	44° 16' 13"

Appendix 2-4 Results of whole rock chemical analyses (2)

sample no.	rock name	SiO ₂ %	TiO ₂ %	Al ₂ O ₃ %	FeO %	MnO %	MgO %	CaO %	Na ₂ O %	K ₂ O %	P ₂ O ₅ %	LOI %	Total	longitude (east)	latitude (north)	
36	A82302	73.14	0.08	15.17	0.39	0.24	0.01	0.17	0.48	3.48	5.57	0.19	1.11	100.03	106° 41' 39"	44° 16' 13"
37	A82401	54.79	1.12	16.51	2.01	5.05	0.11	3.60	4.86	3.10	3.28	0.34	4.71	99.48	106° 38' 47"	44° 10' 24"
38	A90101	69.11	0.43	16.06	2.42	0.29	0.03	0.44	3.23	4.27	2.47	0.25	2.05	101.05	104° 38' 31"	44° 03' 20"
39	A90102	66.96	0.43	15.42	2.12	0.77	0.04	1.56	2.80	4.15	3.16	0.19	3.57	101.17	104° 40' 52"	44° 07' 14"
40	A90103	57.19	1.21	16.18	1.25	5.14	0.12	3.37	5.63	4.07	2.08	0.55	2.46	99.25	104° 38' 09"	44° 09' 24"
41	A90104	76.41	0.17	12.79	1.07	0.46	0.03	0.33	0.55	3.98	3.88	0.10	0.81	100.58	104° 31' 16"	44° 12' 03"
42	A81501	59.33	1.77	15.71	6.09	0.49	0.12	0.98	4.61	4.09	4.02	0.96	2.48	100.65	104° 44' 18"	44° 54' 48"
43	A81502	48.19	1.80	17.07	3.10	6.12	0.14	5.48	7.99	3.67	1.52	0.64	2.77	98.49	104° 47' 08"	44° 55' 00"
44	A82501	76.86	0.12	12.36	0.69	0.25	0.02	0.09	0.58	3.68	4.80	0.12	0.51	100.08	106° 50' 56"	44° 56' 53"
45	A82503	73.73	0.16	15.32	1.15	0.53	0.03	0.80	1.67	4.32	1.51	0.14	1.13	100.49	106° 45' 32"	44° 54' 37"
46	A82504	71.79	0.53	14.03	1.71	0.20	0.02	0.13	0.52	3.95	4.69	0.19	1.18	98.94	106° 44' 57"	44° 54' 20"
47	A82505	79.13	0.08	12.94	0.63	0.15	<0.01	0.41	0.42	2.89	2.04	0.09	1.71	100.49	106° 38' 03"	44° 45' 44"
48	A82602	76.13	0.11	13.47	0.69	0.27	0.05	0.12	0.36	4.58	3.88	0.08	0.62	100.36	106° 40' 24"	44° 55' 49"
49	A82603	49.12	1.18	16.92	6.67	2.52	0.15	6.26	6.72	2.84	0.65	0.47	5.06	98.56	106° 39' 28"	44° 56' 36"
50	A82604	70.37	0.27	15.73	1.59	0.72	0.04	0.88	1.04	5.07	1.80	0.43	2.11	100.05	106° 39' 17"	44° 57' 18"
51	OH70503	42.78	1.72	13.40	5.91	2.58	0.13	8.06	10.98	5.91	0.95	2.23	4.97	99.62	104° 11' 10"	44° 23' 14"
52	OH70504	56.34	1.15	15.04	4.63	0.91	0.08	4.23	6.08	4.44	5.10	1.07	0.91	99.98	104° 10' 34"	44° 23' 08"
53	OS2403	49.00	1.28	14.88	5.21	7.72	0.20	4.71	6.96	3.79	0.18	0.18	2.98	97.09	104° 09' 40"	44° 22' 47"
54	OS70403	54.73	1.10	14.72	5.94	4.80	0.17	3.33	4.64	3.64	0.72	0.18	4.24	98.21	104° 10' 56"	44° 21' 59"
55	OA82904	73.53	0.56	11.11	1.77	2.98	0.06	2.74	0.55	1.92	1.44	0.27	3.23	100.26	104° 09' 48"	44° 23' 01"
56	0124750	54.08	1.21	14.37	4.28	6.88	0.17	4.23	6.20	3.14	0.52	0.18	2.82	98.08	co-ordinates on the detailed	
57	0290675	51.56	1.30	14.52	7.01	2.68	0.15	2.98	5.09	4.59	0.20	0.17	9.21	99.46	survey grid (refer to PL. II-4-1)	
58	0783250	78.86	0.40	8.08	2.78	0.23	0.07	1.00	2.68	0.11	0.09	0.18	6.31	100.79		

Abbreviations: chl:chloritized, py:pyrite disseminated, sil:silicified.

Appendix 2- 5 Chemical compositions and CIPW Norms (1)~(10)

Appendix 2-5 Chemical compositions and CIPW Norms (1)

	(1)	(2)	(3)	(4)	(5)	(6)
sample no.	A80801	A80802	A80901	DH80704	DH80805	H80905
SiO2	53.79	61.76	73.22	54.99	75.96	4.67
TiO2	1.57	1.20	0.28	1.46	0.25	0.06
Al2O3	14.57	14.26	13.96	14.25	12.46	1.13
Fe2O3	7.10	7.27	2.51	5.68	0.87	0.17
FeO	5.24	1.52	0.69	5.32	1.68	0.25
MnO	0.19	0.11	0.09	0.14	0.05	0.14
MgO	3.28	0.90	1.08	3.77	1.77	1.13
CaO	4.84	2.43	0.97	4.66	0.52	49.88
Na2O	3.77	4.89	2.48	6.07	3.72	0.29
K2O	0.33	2.23	2.99	0.69	1.13	0.20
P2O5	0.47	0.47	0.11	0.26	0.10	0.00
H2O+	0.00	0.00	0.00	0.00	0.00	0.00
H2O-	0.00	0.00	0.00	0.00	0.00	0.00
Total	95.15	97.04	98.38	97.29	98.51	57.92
FeO*	11.63	8.06	2.95	10.43	2.46	0.40
FeO*/MgO	3.55	8.96	2.73	2.77	1.39	0.36
CIPW NORM						
Q	15.96	19.55	43.97	3.39	45.59	
C	0.32	0.50	5.14	0.00	4.41	
or	1.95	13.18	17.67	4.08	6.68	
ab	31.90	41.38	20.93	51.36	31.48	
an	20.97	9.02	4.10	9.60	1.93	
lc	0.00	0.90	0.00	0.00	0.00	
ne	0.00	0.00	0.00	0.00	0.00	
kp	0.00	0.00	0.00	0.00	0.00	
ac	0.00	0.00	0.00	0.00	0.00	
vo	0.00	0.00	0.00	4.94	0.00	
en	8.17	2.24	2.69	9.39	4.41	
fs	1.52	0.00	0.00	2.93	2.05	
fo	0.00	0.00	0.00	0.00	0.00	
fa	0.00	0.00	0.00	0.00	0.00	
cs	0.00	0.00	0.00	0.00	0.00	
mt	10.29	1.78	1.71	8.24	1.26	
hm	0.00	6.04	1.33	0.00	0.00	
il	2.98	2.28	0.53	2.77	0.47	
ru	0.00	0.00	0.00	0.00	0.00	
ap	1.11	1.11	0.26	0.62	0.24	
E femic	24.08	13.46	6.52	28.38	8.43	
D. l.	49.81	74.10	32.63	58.83	83.75	
rock series	TH	TH	CA	TH	CA	

*: Total Fe as FeO

Appendix 2-5 Chemical compositions and CIPW Norms (2)

	(7)	(8)	(9)	(10)	(11)	(12)
sample no.	TR80703	A82801	A82802	A82901	A82902	A82903
SiO ₂	80.04	51.84	60.96	54.98	58.06	65.35
TiO ₂	0.24	0.89	0.39	0.67	0.74	0.45
Al ₂ O ₃	10.71	15.22	17.42	15.20	17.36	16.35
Fe ₂ O ₃	0.61	4.47	0.86	2.78	3.41	2.15
FeO	0.29	3.21	2.42	6.25	1.97	1.14
MnO	0.02	0.12	0.16	0.18	0.11	0.06
MgO	0.25	5.56	2.65	4.39	2.97	2.00
CaO	0.60	10.18	3.85	6.52	3.98	2.83
Na ₂ O	6.07	3.43	7.31	4.45	5.40	5.64
K ₂ O	0.18	1.54	0.65	1.04	4.39	4.12
P ₂ O ₅	0.09	0.24	0.18	0.25	0.57	0.32
H ₂ O ⁺	0.00	0.00	0.00	0.00	0.00	0.00
H ₂ O ⁻	0.00	0.00	0.00	0.00	0.00	0.00
Total	99.10	96.70	96.85	96.71	98.96	100.41
FeO*	0.84	7.23	3.19	8.75	5.04	3.07
FeO*/MgO	3.36	1.30	1.21	1.99	1.70	1.54
CIPW NORM						
Q	42.84	2.04	3.82	4.13	0.00	9.67
C	0.00	0.00	0.00	0.00	0.00	0.00
or	1.06	9.10	3.84	6.15	25.94	24.35
ab	51.36	29.02	61.85	37.65	45.69	47.72
an	1.44	21.58	12.80	18.43	10.16	7.13
lc	0.00	0.00	0.00	0.00	0.00	0.00
ne	0.00	0.00	0.00	0.00	0.00	0.00
kp	0.00	0.00	0.00	0.00	0.00	0.00
ac	0.00	0.00	0.00	0.00	0.00	0.00
wo	0.40	11.43	2.14	5.14	2.46	2.02
en	0.62	13.85	6.60	10.93	6.59	4.98
fs	0.00	0.95	3.39	8.41	0.00	0.00
fo	0.00	0.00	0.00	0.00	0.57	0.00
fa	0.00	0.00	0.00	0.00	0.00	0.00
cs	0.00	0.00	0.00	0.00	0.00	0.00
mt	0.30	6.48	1.25	4.03	4.56	2.57
hb	0.40	0.00	0.00	0.00	0.26	0.38
il	0.46	1.69	0.74	1.27	1.41	0.85
ru	0.00	0.00	0.00	0.00	0.00	0.00
ap	0.21	0.57	0.43	0.59	1.35	0.76
Σ femic	2.39	34.97	14.55	30.37	17.20	11.56
D. I.	95.27	40.16	69.52	47.93	71.64	81.74
rock series	CA	CA	CA	TH	CA	CA

*: Total Fe as FeO

Appendix 2-5 Chemical compositions and CIPW Norms (3)

	(13)	(14)	(15)	(16)	(17)	(18)
sample no.	A83001	A81101	A81003	H81011	H81014	A81701
SiO2	37.55	51.26	62.17	77.46	63.67	66.82
TiO2	0.78	2.63	0.33	0.08	0.86	0.61
Al2O3	12.07	14.62	18.36	12.69	17.10	16.02
Fe2O3	2.84	7.56	1.88	0.82	4.48	2.98
FeO	4.74	1.60	2.43	0.34	0.56	0.93
MnO	0.22	0.19	0.07	0.01	0.05	0.06
MgO	7.66	1.46	3.03	0.13	2.02	1.07
CaO	11.15	7.76	2.96	0.35	2.26	2.56
Na2O	0.55	4.11	6.47	4.03	4.69	4.46
K2O	2.05	1.46	0.55	4.12	2.44	4.14
P2O5	0.27	1.60	0.34	0.11	0.23	0.22
H2O+	0.00	0.00	0.00	0.00	0.00	0.00
H2O-	0.00	0.00	0.00	0.00	0.00	0.00
Total	79.88	94.25	98.59	100.14	98.36	99.87
FeO*	7.30	8.40	4.12	1.08	4.59	3.61
FeO*/MgO	0.95	5.76	1.36	8.29	2.27	3.38
CIPW NORM						
Q	0.00	9.81	11.39	37.61	19.98	18.57
C	0.00	0.00	2.54	1.22	3.41	0.07
or	12.11	8.63	3.25	24.35	14.42	24.47
ab	3.69	34.78	54.75	34.10	39.69	37.74
an	24.41	17.13	12.49	1.02	9.09	11.28
lc	0.00	0.00	0.00	0.00	0.00	0.00
ne	0.52	0.00	0.00	0.00	0.00	0.00
kp	0.00	0.00	0.00	0.00	0.00	0.00
ac	0.00	0.00	0.00	0.00	0.00	0.00
wo	12.18	3.67	0.00	0.00	0.00	0.00
en	8.64	3.64	7.55	0.32	5.03	2.67
fs	2.48	0.00	2.49	0.00	0.00	0.00
fo	7.32	0.00	0.00	0.00	0.00	0.00
fa	2.32	0.00	0.00	0.00	0.00	0.00
cs	0.00	0.00	0.00	0.00	0.00	0.00
mt	4.12	0.00	2.73	0.90	0.00	1.42
hw	0.00	7.56	0.00	0.20	4.48	2.00
il	1.48	3.79	0.63	0.15	1.29	1.16
ru	0.00	0.00	0.00	0.00	0.00	0.00
ap	0.64	3.79	0.81	0.26	0.54	0.52
E fenic	39.16	22.45	14.20	1.83	11.35	7.77
D. I.	16.33	53.22	69.38	96.06	74.08	80.77
rock series	TH	TH	CA	TH	CA	CA

*: Total Fe as FeO

Appendix 2-5 Chemical compositions and CIPW Norms (4)

	(19)	(20)	(21)	(22)	(23)	(24)
sample no.	A81702	A81703	A81801	A81802	A81803	A81804
SiO ₂	58.84	70.33	77.33	71.97	70.46	73.71
TiO ₂	0.99	0.35	0.11	0.26	0.42	0.28
Al ₂ O ₃	17.54	15.54	12.18	14.37	14.65	14.23
Fe ₂ O ₃	3.94	1.32	1.13	1.98	2.16	1.45
FeO	2.89	1.07	0.20	0.27	0.33	0.22
MnO	0.15	0.08	0.00	0.06	0.06	0.01
MgO	2.49	0.60	0.03	0.33	0.68	0.25
CaO	5.07	1.24	0.21	1.07	1.52	0.31
Na ₂ O	4.69	4.42	4.33	4.79	3.32	4.36
K ₂ O	2.05	3.36	4.77	4.16	5.40	4.13
P ₂ O ₅	0.43	0.19	0.10	0.15	0.15	0.10
H ₂ O ⁺	0.00	0.00	0.00	0.00	0.00	0.00
H ₂ O ⁻	0.00	0.00	0.00	0.00	0.00	0.00
Total	99.08	98.50	100.39	99.41	99.15	99.05
FeO*	6.44	2.26	1.22	2.05	2.27	1.52
FeO*/K ₂ O	2.58	3.76	40.56	6.22	3.34	6.10
CIPW NORM						
Q	10.37	28.54	33.97	25.82	26.63	31.80
C	0.00	2.83	0.00	0.40	0.93	2.29
or	12.11	19.86	28.19	24.58	31.91	24.41
ab	39.69	37.40	36.09	40.53	28.09	36.39
an	20.75	4.92	0.00	4.34	6.57	0.81
lc	0.00	0.00	0.00	0.00	0.00	0.00
ne	0.00	0.00	0.00	0.00	0.00	0.00
kp	0.00	0.00	0.00	0.00	0.00	0.00
ac	0.00	0.00	0.48	0.00	0.00	0.00
wo	0.68	0.00	0.00	0.00	0.00	0.00
en	6.20	1.49	0.07	0.82	1.69	0.62
fs	0.70	0.45	0.00	0.00	0.00	0.00
fo	0.00	0.00	0.00	0.00	0.00	0.00
fa	0.00	0.00	0.00	0.00	0.00	0.00
cs	0.00	0.00	0.00	0.00	0.00	0.00
mt	5.71	1.91	0.33	0.31	0.04	0.00
hm	0.00	0.00	0.74	1.76	2.13	1.45
il	1.88	0.66	0.21	6.49	0.80	0.49
ru	0.00	0.00	0.00	0.00	0.00	0.00
ap	1.02	0.45	0.24	0.36	0.36	0.24
Σ feric	16.19	4.97	2.07	3.75	5.02	2.80
D. I.	62.17	85.79	98.25	90.94	86.64	93.10
rock series	TH	CA	TH	TH	CA	TH

*: Total Fe as FeO

Appendix 2--5 Chemical compositions and CIPW Norms (5)

	(25)	(26)	(27)	(28)	(29)	(30)
sample no.	A81901	A82002	A82003	A82101	A82103	A82104
SiO ₂	74.65	74.12	72.04	67.25	76.99	48.95
TiO ₂	0.09	0.13	0.32	0.24	0.03	2.35
Al ₂ O ₃	13.48	14.98	14.58	17.08	13.32	17.07
Fe ₂ O ₃	0.84	0.77	2.33	3.53	0.57	3.69
FeO	0.34	0.20	0.24	0.44	0.18	5.76
MnO	0.01	0.01	0.08	0.04	0.00	0.13
MgO	0.22	0.20	0.17	0.29	0.11	3.14
CaO	0.73	0.62	1.27	0.41	0.37	3.91
Na ₂ O	3.79	3.09	7.25	5.44	2.49	4.52
K ₂ O	5.00	5.60	1.43	5.08	6.04	3.50
P ₂ O ₅	0.10	0.15	0.24	0.11	0.11	0.84
H ₂ O ⁺	0.00	0.00	0.00	0.00	0.00	0.00
H ₂ O ⁻	0.00	0.00	0.00	0.00	0.00	0.00
Total	99.25	99.87	99.95	99.91	100.21	93.86
FeO*	1.10	0.89	2.34	3.62	0.69	9.08
FeO*/MgO	4.98	4.46	13.74	12.47	6.30	2.89
CIPW NORM						
Q	31.86	33.51	22.47	15.16	38.74	0.00
C	0.74	3.06	0.00	2.15	2.27	0.73
or	29.55	33.09	8.45	30.02	35.69	20.68
ab	32.07	26.15	61.35	46.03	21.07	38.25
an	2.97	2.11	3.02	1.32	1.12	13.97
lc	0.00	0.00	0.00	0.00	0.00	0.00
ne	0.00	0.00	0.00	0.00	0.00	0.00
kp	0.00	0.00	0.00	0.00	0.00	0.00
ac	0.00	0.00	0.00	0.00	0.00	0.00
wo	0.00	0.00	0.72	0.00	0.00	0.00
en	0.55	0.50	0.42	0.72	0.27	0.01
fs	0.00	0.00	0.00	0.00	0.00	0.01
fo	0.00	0.00	0.00	0.00	0.00	5.47
fa	0.00	0.00	0.00	0.00	0.00	3.00
cs	0.00	0.00	0.00	0.00	0.00	0.00
mt	0.87	0.30	0.11	0.85	0.49	5.35
hm	0.24	0.56	2.28	2.94	0.23	0.00
il	0.17	0.25	0.61	0.46	0.06	4.46
ru	0.00	0.00	0.00	0.00	0.00	0.00
ap	0.24	0.36	0.57	0.26	0.26	1.99
Σ femic	2.06	1.96	4.69	5.23	1.31	20.29
D. I.	93.47	92.75	92.26	91.21	95.50	58.93
rock series	TH	CA	TH	TH	TH	TH

*: Total Fe as FeO

Appendix 2-5 Chemical compositions and CIPW Norms (6)

	(31)	(32)	(33)	(34)	(35)	(36)
sample no.	A82105	A82106	A82110	A82201	A82301	A82302
SiO2	52.66	48.44	76.04	72.61	47.01	73.14
TiO2	1.28	1.54	0.12	0.22	1.42	0.08
Al2O3	15.72	16.74	13.20	14.02	16.06	15.17
Fe2O3	1.18	1.72	1.08	1.17	5.00	0.39
FeO	6.41	6.50	0.21	0.40	5.12	0.24
KnO	0.17	0.15	0.02	0.01	0.15	0.01
MgO	6.14	5.49	0.15	0.35	6.16	0.17
CaO	8.26	6.65	0.77	0.50	8.18	0.48
Na2O	2.91	3.39	3.58	2.52	2.26	3.48
K2O	2.38	3.03	4.88	6.81	0.40	5.57
P2O5	0.22	0.55	0.12	0.19	0.21	0.19
H2O+	0.00	0.00	0.00	0.00	0.00	0.00
H2O-	0.00	0.00	0.00	0.00	0.00	0.00
Total	97.33	94.20	100.15	98.80	91.97	98.92
FeO*	7.47	8.05	1.18	1.45	9.62	0.59
FeO*/MgO	1.22	1.47	7.88	4.15	1.56	3.48
CIPW NORM						
Q	0.00	0.00	35.08	30.83	6.20	30.83
C	0.00	0.00	0.93	2.04	0.00	2.99
or	14.06	17.91	28.72	40.24	2.36	32.92
ab	24.62	27.15	30.29	21.32	19.12	29.45
an	22.80	21.51	3.04	1.25	32.49	1.15
lc	0.00	0.00	0.00	0.00	0.00	0.00
ne	0.00	0.83	0.00	0.00	0.00	0.00
kp	0.00	0.00	0.00	0.00	0.00	0.00
ac	0.00	0.00	0.00	0.00	0.00	0.00
wo	7.00	3.31	0.00	0.00	2.81	0.00
en	15.08	1.96	0.37	0.87	15.34	0.42
fs	8.87	1.18	0.00	0.00	3.20	0.00
fo	0.15	8.21	0.00	0.00	0.00	0.00
fa	0.10	5.46	0.00	0.00	0.00	0.00
cs	0.00	0.00	0.00	0.00	0.00	0.00
mt	1.71	2.49	0.39	0.88	7.25	0.57
hm	0.00	0.00	0.81	0.70	0.00	0.00
il	2.43	2.93	0.23	0.42	2.70	0.15
ru	0.00	0.00	0.00	0.00	0.00	0.00
ap	0.52	1.30	0.28	0.45	0.50	0.45
E feni c	35.86	26.84	2.09	3.12	31.80	1.60
D: I.	38.69	45.89	94.09	92.39	27.69	93.19
rock series	CA	TH	TH	CA	TH	CA

*: Total Fe as FeO

Appendix 2-5 Chemical compositions and CIPW Norms (7)

	(37)	(38)	(39)	(40)	(41)	(42)
sample no.	A82401	A90101	A90102	A90103	A90104	A81501
SiO ₂	54.79	69.11	66.96	57.19	76.41	59.33
TiO ₂	1.12	0.43	0.43	1.21	0.17	1.77
Al ₂ O ₃	16.51	16.06	15.42	16.18	12.79	15.71
Fe ₂ O ₃	2.01	2.42	2.13	1.25	1.07	6.09
FeO	5.05	0.29	0.77	5.14	0.46	0.49
MnO	0.11	0.03	0.04	0.12	0.03	0.12
MgO	3.60	0.44	1.56	3.37	0.33	0.98
CaO	4.86	3.23	2.80	5.63	0.55	4.61
Na ₂ O	3.10	4.27	4.15	4.07	3.98	4.09
K ₂ O	3.28	2.47	3.16	2.08	3.88	4.02
P ₂ O ₅	0.34	0.25	0.19	0.55	0.10	0.96
H ₂ O ⁺	0.00	0.00	0.00	0.00	0.00	0.00
H ₂ O ⁻	0.00	0.00	0.00	0.00	0.00	0.00
Total	94.77	99.00	97.61	96.79	99.77	98.17
FeO*	6.86	2.47	2.69	6.26	1.42	5.97
FeO*/MgO	1.91	5.61	1.72	1.86	4.31	6.09
CIPW NORM						
Q	6.76	28.00	22.93	7.99	37.02	12.37
C	0.00	1.18	0.53	0.00	1.28	0.00
or	19.38	14.60	18.67	12.29	22.93	23.76
ab	26.23	36.13	35.12	34.44	33.68	34.61
an	21.45	14.15	12.66	19.74	2.08	12.63
lc	0.00	0.00	0.00	0.00	0.00	0.00
ne	0.00	0.00	0.00	0.00	0.00	0.00
kp	0.00	0.00	0.00	0.00	0.00	0.00
ac	0.00	0.00	0.00	0.00	0.00	0.00
wo	0.19	0.00	0.00	1.94	0.00	0.10
en	8.97	1.10	3.89	8.39	0.82	2.44
fs	5.97	0.00	0.00	6.63	0.00	0.00
fo	0.00	0.00	0.00	0.00	0.00	0.00
fa	0.00	0.00	0.00	0.00	0.00	0.00
cs	0.00	0.00	0.00	0.00	0.00	0.00
wt	2.91	0.00	1.37	1.81	1.09	0.00
hm	0.00	2.42	1.19	0.00	0.32	6.09
il	2.13	0.68	0.82	2.30	0.32	1.29
ru	0.00	0.00	0.00	0.00	0.00	0.00
ap	0.81	0.59	0.45	1.30	0.24	2.27
Σ femic	20.98	4.78	7.71	22.37	2.79	12.19
D. l.	52.37	78.72	76.72	54.72	93.63	70.73
rock series	TH	TH	CA	CA	CA	TH

*: Total Fe as FeO

Appendix 2-5 Chemical compositions and CIPW Norms (8)

	(43)	(44)	(45)	(46)	(47)	(48)
sample no.	A81502	A82501	A82503	A82504	A82505	A82602
SiO2	48.19	76.86	73.73	71.79	79.13	76.13
TiO2	1.80	0.12	0.16	0.53	0.08	0.11
Al2O3	17.07	12.36	15.32	14.03	12.94	13.47
Fe2O3	3.11	0.69	1.15	1.71	0.63	0.69
FeO	6.12	0.25	0.53	0.20	0.15	0.27
MnO	0.14	0.02	0.03	0.02	0.00	0.05
MgO	5.48	0.09	0.80	0.13	0.41	0.12
CaO	7.99	0.58	1.67	0.52	0.42	0.36
Na2O	3.67	3.68	4.32	3.95	2.89	4.58
K2O	1.52	4.80	1.51	4.69	2.04	3.88
P2O5	0.64	0.12	0.14	0.19	0.09	0.08
H2O+	0.00	0.00	0.00	0.00	0.00	0.00
H2O-	0.00	0.00	0.00	0.00	0.00	0.00
Total	95.73	99.57	99.36	97.76	98.78	99.74
FeO*	8.92	0.87	1.56	1.74	0.72	0.89
FeO*/MgO	1.63	9.68	1.96	13.37	1.75	7.42
CIPW NORM						
Q	0.00	36.04	38.44	30.30	53.25	33.91
C	0.00	0.34	3.87	2.32	5.43	1.27
or	8.98	28.37	8.92	27.72	12.06	22.93
ab	31.05	31.14	36.55	33.42	24.45	38.75
an	25.61	2.10	7.38	0.36	1.50	1.27
lc	0.00	0.00	0.00	0.00	0.00	0.00
ne	0.00	0.00	0.00	0.00	0.00	0.00
kp	0.00	0.00	0.00	0.00	0.00	0.00
ac	0.00	0.00	0.00	0.00	0.00	0.00
wo	4.13	0.00	0.00	0.00	0.00	0.00
en	5.99	0.22	1.99	0.32	1.02	0.30
fs	2.61	0.00	0.00	0.00	0.00	0.00
fo	5.37	0.00	0.00	0.00	0.00	0.00
fa	2.58	0.00	0.00	0.00	0.00	0.00
cs	0.00	0.00	0.00	0.00	0.00	0.00
mt	4.51	0.52	1.34	0.00	0.25	0.71
hm	0.00	0.33	0.22	1.71	0.46	0.20
il	3.42	0.23	0.30	0.47	0.15	0.21
ru	0.00	0.00	0.00	0.00	0.00	0.00
ap	1.52	0.28	0.33	0.45	0.21	0.19
Σ fensic	30.12	1.59	4.19	2.95	2.09	1.61
D. I.	40.04	95.55	83.92	91.44	89.76	95.60
rock series	TH	TH	CA	TH	CA	TH

*: Total Fe as FeO

Appendix 2-5 Chemical compositions and CIPW Norms (9)

	(49)	(50)	(51)	(52)	(53)	(54)
sample no.	A82603	A82604	OH70503	OH70504	OS62403	OS70403
SiO2	49.12	70.37	42.78	56.34	49.00	54.73
TiO2	1.18	0.27	1.72	1.15	1.28	1.10
Al2O3	16.92	15.73	13.40	15.04	14.88	14.72
Fe2O3	6.67	1.59	5.92	4.63	5.22	5.94
FeO	2.52	0.72	2.58	0.91	7.72	4.80
MnO	0.15	0.04	0.13	0.08	0.20	0.17
MgO	6.26	0.88	8.06	4.23	4.71	3.33
CaO	6.72	1.04	10.98	6.08	6.96	4.64
Na2O	2.84	5.07	5.91	4.44	3.79	3.64
K2O	0.65	1.80	0.95	5.10	0.18	0.72
P2O5	0.47	0.43	2.23	1.07	0.18	0.18
H2O+	0.00	0.00	0.00	0.00	0.00	0.00
H2O-	0.00	0.00	0.00	0.00	0.00	0.00
Total	93.50	97.94	94.66	99.07	94.12	93.97
FeO*	8.52	2.15	7.91	5.08	12.42	10.14
FeO*/MgO	1.36	2.44	0.98	1.20	2.64	3.05
CIPW NORM						
Q	7.69	31.65	0.00	0.00	3.36	15.34
C	0.44	4.57	0.00	0.00	0.00	0.00
or	3.84	10.84	5.61	30.14	1.06	4.25
ab	24.03	42.90	17.29	36.87	32.07	30.80
an	30.30	2.38	7.23	6.04	23.06	21.70
lc	0.00	0.00	0.00	0.00	0.00	0.00
ne	0.00	0.00	17.73	0.38	0.00	0.00
kp	0.00	0.00	0.00	0.00	0.00	0.00
ac	0.00	0.00	0.00	0.00	0.00	0.00
wo	0.00	0.00	13.70	7.11	4.30	0.07
en	15.59	2.19	11.84	6.15	11.73	8.29
fs	0.00	0.00	0.00	0.00	8.12	2.41
fo	0.00	0.00	5.77	3.08	0.00	0.00
fa	0.00	0.00	0.00	0.00	0.00	0.00
cs	0.00	0.00	0.00	0.00	0.00	0.00
mt	5.19	1.67	3.75	0.00	7.57	8.61
hm	3.09	0.44	3.33	4.63	0.00	0.00
il	2.24	0.51	3.27	2.09	2.43	2.09
ru	0.00	0.00	0.00	0.00	0.00	0.00
ap	1.11	1.02	5.28	2.53	0.43	0.43
Σ femic	27.23	5.83	46.95	25.59	34.58	21.89
D. I.	35.57	85.19	40.63	67.39	36.49	50.39
rock series	TH	CA	TH	CA	TH	TH

*: Total Fe as FeO

Appendix 2-5 Chemical compositions and CIPW Norms (10)

	(55)	(56)	(57)	(58)
sample no.	0A62904	124750	290675	783250
SiO ₂	73.53	54.08	51.56	78.86
TiO ₂	0.56	1.21	1.30	0.40
Al ₂ O ₃	11.11	14.37	14.52	8.08
Fe ₂ O ₃	1.77	4.28	7.02	2.78
FeO	2.98	6.88	2.68	0.23
MnO	0.08	0.17	0.15	0.07
MgO	2.74	4.23	2.98	1.00
CaO	0.65	6.20	5.09	2.68
Na ₂ O	1.92	3.14	4.59	0.11
K ₂ O	1.44	0.52	0.20	0.09
P ₂ O ₅	0.27	0.18	0.17	0.18
H ₂ O ⁺	0.00	0.00	0.00	0.00
H ₂ O ⁻	0.00	0.00	0.00	0.00
Total	97.03	95.26	90.26	94.48
FeO*	4.57	10.73	9.00	2.73
FeO*/MgO	1.67	2.54	3.02	2.73
CIPW NORM				
Q	50.67	12.66	10.46	71.19
C	5.85	0.00	0.00	3.44
or	8.51	3.07	1.18	0.53
ab	16.25	26.57	38.84	0.93
an	1.48	23.58	18.42	11.90
lc	0.00	0.00	0.00	0.00
ne	0.00	0.00	0.00	0.00
kp	0.00	0.00	0.00	0.00
ac	0.00	0.00	0.00	0.00
vo	0.00	2.51	2.39	0.00
en	6.82	10.54	7.42	2.49
fs	3.20	7.42	0.00	0.00
fo	0.00	0.00	0.00	0.00
fa	0.00	0.00	0.00	0.00
cs	0.00	0.00	0.00	0.00
nt	2.57	6.21	5.36	0.00
hm	0.00	0.00	3.32	2.78
il	1.06	2.30	2.47	0.64
ru	0.00	0.00	0.00	0.00
ap	0.64	0.43	0.40	0.43
Σ femic	14.29	29.39	21.37	6.33
D. I.	75.43	42.30	50.48	72.66
rock series	CA	TH	TH	CA

*: Total Fe as FeO

CA:calc-alkalic series, TH:tholeiitic series

Appendix 2- 6 Assay Results (ore analyses Au, Ag) (1) ~ (5)

ABBREVIATIONS FOR ASSAY RESULT

alk	: alkaline	lm	: limonite	tf	: tuff
alt	: altenated	ls	: limestone	trch	: trachyte
and	: andesite	ltl	: little	trl	: translucent
argd	: argillized	mal	: malachite	trp	: transparent
bas	: basalt	mdg	: medium grained	v	: vein
bg	: bearing	mgt	: magnetite	vlt	: veinlet
bre	: brecciated	monz	: monzonite	vtrc	: vitric
brn	: brown	ms	: mudstone	wht	: white
bt	: biotite	msv	: massive	wk	: weak
cal	: calcite	mus	: muscovite	wthd	: weathered
calc	: calcareous	neph	: nepheline	xln	: crystalline
carb	: carbonate	ntwk	: net work		
cbt	: carbonatite	ol	: olivine		
ccp	: chalcopyrite	opx	: orthopyroxine		
chl	: chlorite	oxd	: oxide		
cly	: clay	part	: partialy		
comp	: compact	peg	: pegmatite		
cpx	: clinopyroxene	po	: porphyry		
csg	: coarse grained	po	: pyrrhotite		
cv	: covellite	po-Cu	: porphyry copper		
da	: dacite	por	: porphyrite		
dio	: diorite	prop	: propylite		
drsy	: drusy	prs	: porous		
ep	: epidote	purp	: purple		
feld	: feldspar	py	: pyrite		
fl	: fluorite	qp	: quartz porphyry		
fng	: fine grained	qz	: quartz		
gb	: gabbro	rd	: red		
gd	: granodiorite	rh	: rhyolite		
gn	: galena	scnd	: secondary		
gp	: granite porphyry	sed	: sedimentary rock		
gr	: granite	ser	: serisite		
grn	: green	sil	: silicified		
grnCu	: green Copper	siltst	: siltstone		
grsn	: greisen	sk	: skarn		
gry	: grey	skzed	: skarnized		
gyp	: gypsum	sp	: sphalerite		
hb	: hornblende	ss	: sandstone		
hem	: hematite	stg	: strong		
hf	: hornfels	stkwk	: stock work		
kaol	: kaolinite	sy	: syenite		

Appendix 2-6 Assay Results (ore analyses Au, Ag) (1)

Ser. No.	Sample No.	Au ppm	Ag ppm	longitude(east)	latitude(north)	area name	rock name
1	OS70408	1.75	1	104 ° 08 ' 05 "	44 ° 23 ' 18 "	Olon Ovoot	vqz
2	OS70409	0.03	2	104 ° 08 ' 07 "	44 ° 23 ' 18 "		vqz
3	OS70501	0.04	1	104 ° 08 ' 16 "	44 ° 23 ' 17 "		vqz
4	OS70505	0.03	<1	104 ° 07 ' 55 "	44 ° 23 ' 14 "		vqz
5	OS70508	0.03	<1	104 ° 07 ' 46 "	44 ° 23 ' 18 "		vqz
6	OS70510	0.04	<1	104 ° 07 ' 45 "	44 ° 23 ' 18 "		vqz
7	OS70511	0.98	<1	104 ° 07 ' 45 "	44 ° 23 ' 18 "		vqz
8	XH80501	1.86	<1	104 ° 06 ' 39 "	44 ° 20 ' 57 "		vqz
9	XH80502	1.44	1	104 ° 06 ' 45 "	44 ° 20 ' 56 "		vqz
10	XH80503	16.58	2	104 ° 16 ' 49 "	44 ° 22 ' 16 "		vqz
11	H90501	0.04	<1	104 ° 26 ' 23 "	43 ° 51 ' 39 "	Tahilga Ula	vqz
12	H90502	3.29	1	104 ° 26 ' 10 "	43 ° 51 ' 43 "		vqz
13	H81501	0.04	<1	104 ° 35 ' 44 "	44 ° 53 ' 18 "	Tsagaan Ula	vqz
14	H81502	0.03	1	104 ° 38 ' 32 "	44 ° 53 ' 40 "		vqz
15	H81503	0.03	3	104 ° 47 ' 08 "	44 ° 54 ' 60 "		vqz
16	H81504	0.06	<1	104 ° 50 ' 41 "	44 ° 55 ' 04 "		vqz
17	H81505	0.03	<1	104 ° 54 ' 32 "	44 ° 51 ' 10 "		vqz
18	H81506	0.04	<1	104 ° 53 ' 50 "	44 ° 51 ' 07 "		vqz
19	H90401	0.05	<1	104 ° 38 ' 40 "	44 ° 53 ' 43 "		vqz
20	H90402	0.83	4	104 ° 38 ' 29 "	44 ° 53 ' 44 "		vqz
21	H90403	0.91	<1	104 ° 38 ' 16 "	44 ° 53 ' 47 "		vqz
22	H90404	0.05	2	104 ° 38 ' 16 "	44 ° 53 ' 52 "		vqz
23	H90405	0.05	<1	104 ° 38 ' 32 "	44 ° 53 ' 32 "	vqz	
24	H90406	0.03	<1	104 ° 36 ' 49 "	44 ° 54 ' 02 "	vqz	
25	DH80602	0.03	<1	104 ° 58 ' 04 "	44 ° 24 ' 14 "	vqz	
26	DH80603	0.03	<1	104 ° 57 ' 54 "	44 ° 24 ' 22 "	vqz	
27	DH80604	0.07	<1	104 ° 58 ' 05 "	44 ° 24 ' 34 "	vqz	
28	DH80605	0.04	<1	104 ° 57 ' 13 "	44 ° 24 ' 19 "	vqz	
29	DH80606	0.02	<1	104 ° 57 ' 13 "	44 ° 24 ' 19 "	vqz	
30	DH80705	0.03	<1	104 ° 55 ' 50 "	44 ° 24 ' 23 "	vqz	
31	DH80706	0.03	<1	104 ° 55 ' 51 "	44 ° 24 ' 23 "	vqz	
32	DH80707	0.03	<1	104 ° 55 ' 48 "	44 ° 24 ' 23 "	vqz	
33	TH80701	0.03	<1	104 ° 55 ' 58 "	44 ° 24 ' 12 "	vqz	
34	TH80702	0.03	1	104 ° 55 ' 58 "	44 ° 24 ' 12 "	alt dio	
35	NH80701	0.04	<1	104 ° 52 ' 59 "	44 ° 22 ' 11 "	vqz	
36	NH80702	0.03	<1	104 ° 52 ' 46 "	44 ° 22 ' 10 "	vqz	
37	SH80701	0.03	<1	104 ° 56 ' 03 "	44 ° 23 ' 01 "	vqz	
38	SH80702	0.03	<1	104 ° 56 ' 03 "	44 ° 23 ' 01 "	vqz	
39	HH80701	0.04	2	105 ° 00 ' 04 "	44 ° 23 ' 24 "	Dugshih	alt sil dio
40	HH80702	0.03	<1	104 ° 59 ' 57 "	44 ° 23 ' 35 "	vqz	
41	HH80703	0.03	<1	105 ° 00 ' 59 "	44 ° 24 ' 08 "	vqz	
42	NH80802	0.03	<1	104 ° 52 ' 11 "	44 ° 23 ' 23 "	vqz	
43	BH80801	0.03	<1	104 ° 53 ' 13 "	44 ° 23 ' 47 "	vqz	
44	BH80802	0.03	<1	104 ° 53 ' 16 "	44 ° 24 ' 29 "	vqz	
45	BH80803	0.11	<1	104 ° 53 ' 16 "	44 ° 24 ' 29 "	vqz	
46	BH80804	0.05	<1	104 ° 53 ' 03 "	44 ° 23 ' 51 "	vqz	
47	BH80805	0.06	<1	104 ° 53 ' 26 "	44 ° 24 ' 23 "	vqz	
48	BH80806	0.03	<1	104 ° 52 ' 38 "	44 ° 24 ' 22 "	vqz	
49	BH80807	0.09	<1	104 ° 52 ' 39 "	44 ° 24 ' 22 "	vqz	
50	DH80801	0.03	<1	104 ° 46 ' 51 "	44 ° 30 ' 46 "	vqz	

Appendix 2-6 Assay Results (ore analyses Au, Ag) (2)

Ser. No.	Sample No.	Au ppm	Ag ppm	longitude(east)	latitude(north)	area name	rock name	
51	DH80802	0.03	2	104° 46' 51"	44° 30' 46"	Dugshih	vqz	
52	DH80803	0.04	3	104° 46' 16"	44° 30' 30"		sil rk	
53	DH80804	0.03	<1	104° 46' 16"	44° 30' 30"		sil rk	
54	DS80805	0.04	<1	104° 46' 16"	44° 30' 30"		vqz	
55	DS80807	0.03	<1	104° 46' 16"	44° 30' 30"		vqz	
56	H80903	0.03	<1	105° 00' 09"	44° 22' 01"		vqz	
57	H81001	0.03	<1	105° 22' 47"	44° 35' 50"	Onh	vqz	
58	H81002	0.03	<1	105° 23' 18"	44° 35' 53"		vqz	
59	H81003	0.03	<1	105° 22' 12"	44° 36' 32"		vqz	
60	H81004	0.04	2	105° 22' 12"	44° 36' 32"		phyl ss	
61	H81005	0.03	<1	105° 21' 33"	44° 36' 28"		vqz	
62	H81006	0.03	1	105° 20' 49"	44° 36' 02"		vqz	
63	H81007	0.03	<1	105° 20' 50"	44° 36' 14"		vqz	
64	H81008	0.03	<1	105° 20' 08"	44° 38' 45"		vqz	
65	H81009	0.03	<1	105° 19' 11"	44° 38' 40"		vqz	
66	H81010	0.03	<1	105° 20' 49"	44° 39' 03"		vqz	
67	H81012	0.03	<1	105° 17' 26"	44° 40' 46"		vqz	
68	H81013	0.03	<1	105° 18' 12"	44° 41' 03"		vqz	
69	H81015	0.03	<1	105° 22' 55"	44° 43' 24"		vqz	
70	H81702	0.03	<1	105° 43' 42"	45° 38' 46"		Soirig	vqz
71	H81703	0.03	1	105° 43' 41"	45° 38' 35"	vqz		
72	H81705	0.03	<1	105° 43' 56"	45° 38' 51"	qzylv		
73	H81706	0.03	6	105° 44' 18"	45° 38' 59"	vqz		
74	H81707	0.05	1	105° 44' 19"	45° 38' 45"	vqz		
75	H81708	0.03	<1	105° 44' 01"	45° 38' 36"	vqz		
76	H81709	0.03	3	105° 41' 57"	45° 34' 49"	vqz		
77	H81710	0.03	<1	105° 41' 30"	45° 34' 37"	vqz		
78	H81711	0.04	<1	105° 52' 47"	45° 49' 53"	vqz		
79	H81712	0.04	<1	105° 52' 46"	45° 49' 54"	vqz		
80	H81713	0.04	<1	105° 52' 42"	45° 49' 57"	vqz		
81	H81714	0.04	<1	105° 52' 42"	45° 49' 57"	vqz		
82	H81715	0.03	<1	105° 52' 47"	45° 50' 09"	vqz		
83	S81703	0.03	<1	105° 52' 43"	45° 50' 05"	vqz		
84	H81801	0.03	1	105° 52' 58"	45° 50' 28"	Soirig	sil rk	
85	H81802	0.05	1	105° 53' 04"	45° 50' 33"		sil rk	
86	H81803	0.03	<1	105° 53' 11"	45° 50' 10"		sil rk	
87	H81804	0.03	<1	105° 55' 59"	45° 52' 02"		sil rk	
88	H81805	0.04	<1	105° 56' 25"	45° 52' 12"		sil rk	
89	H81806	0.12	<1	105° 56' 46"	45° 52' 24"		sil rk	
90	H82701	0.04	<1	105° 44' 03"	44° 31' 26"		North Harmagtai	vqz
91	H82702	0.03	<1	105° 54' 57"	44° 28' 52"			vqz
92	H82703	0.03	<1	105° 55' 22"	44° 28' 46"			vqz
93	H82808	0.02	1	105° 48' 48"	44° 24' 08"			vqz
94	H82809	0.02	<1	105° 48' 20"	44° 24' 14"			vqz
95	H82810	0.02	1	105° 48' 25"	44° 24' 02"			vqz
96	H82811	0.03	<1	105° 46' 35"	44° 24' 06"			vqz
97	H82813	0.03	1	105° 42' 03"	44° 22' 34"			vqz
98	H82814	0.02	<1	105° 41' 04"	44° 21' 47"	vqz		
99	H82815	0.03	<1	105° 41' 04"	44° 21' 45"	vqz		
100	H82903	0.03	<1	105° 45' 07"	44° 18' 27"	vqz		

Appendix 2-6 Assay Results (ore analyses Au, Ag) (3)

Ser. No.	Sample No.	Au ppm	Ag ppm	longitude(east)	latitude(north)	area name	rock name
101	H82911	0.04	<1	106 ° 15 ' 23 "	44 ° 27 ' 11 "	North Harmagtai	vqz
102	H82913	0.04	1	106 ° 14 ' 53 "	44 ° 27 ' 16 "		vqz
103	H82914	0.04	2	106 ° 14 ' 32 "	44 ° 27 ' 17 "		vqz
104	H82915	0.04	<1	106 ° 14 ' 11 "	44 ° 27 ' 19 "		vqz
105	H82916	0.03	<1	106 ° 13 ' 57 "	44 ° 27 ' 17 "		vqz
106	H83001	0.03	<1	106 ° 14 ' 01 "	44 ° 27 ' 09 "		vqz
107	H83002	0.04	<1	106 ° 13 ' 21 "	44 ° 27 ' 12 "		vqz
108	H83003	0.03	<1	106 ° 13 ' 06 "	44 ° 27 ' 30 "		vqz
109	H83004	0.04	<1	106 ° 13 ' 15 "	44 ° 27 ' 31 "		vqz
110	H83005	0.04	<1	106 ° 12 ' 41 "	44 ° 27 ' 56 "		vqz
111	H83006	0.05	<1	106 ° 10 ' 57 "	44 ° 29 ' 02 "		vqz
112	H83007	0.03	2	106 ° 10 ' 45 "	44 ° 29 ' 00 "		vqz
113	H83008	0.05	<1	106 ° 10 ' 38 "	44 ° 28 ' 57 "		vqz
114	H83009	0.04	<1	106 ° 12 ' 42 "	44 ° 27 ' 08 "		vqz
115	H83010	0.04	<1	106 ° 12 ' 20 "	44 ° 27 ' 05 "		vqz
116	H83011	0.04	<1	106 ° 11 ' 28 "	44 ° 26 ' 52 "		vqz
117	H83012	0.04	<1	106 ° 10 ' 54 "	44 ° 26 ' 35 "		vqz
118	H83013	0.04	<1	106 ° 10 ' 39 "	44 ° 26 ' 28 "		vqz
119	H83014	0.03	<1	106 ° 09 ' 54 "	44 ° 26 ' 55 "		vqz
120	H83015	0.04	1	106 ° 10 ' 12 "	44 ° 26 ' 54 "		vqz
121	H83016	0.04	<1	106 ° 09 ' 58 "	44 ° 26 ' 52 "		vqz
122	H83017	0.04	<1	106 ° 09 ' 00 "	44 ° 26 ' 29 "		vqz
123	H83018	0.03	<1	106 ° 09 ' 58 "	44 ° 25 ' 47 "		vqz
124	H83019	0.03	<1	106 ° 08 ' 58 "	44 ° 24 ' 59 "		vqz
125	H83021	0.05	<1	105 ° 57 ' 25 "	44 ° 25 ' 08 "		vqz
126	H83101	0.03	<1	106 ° 02 ' 29 "	44 ° 26 ' 58 "		vqz
127	H83102	0.04	<1	105 ° 59 ' 37 "	44 ° 27 ' 34 "		vqz
128	H83103	0.03	<1	105 ° 57 ' 53 "	44 ° 28 ' 15 "		vqz
129	H83104	0.03	<1	105 ° 57 ' 23 "	44 ° 28 ' 17 "		vqz
130	H83105	0.03	<1	105 ° 56 ' 30 "	44 ° 28 ' 33 "		vqz
131	H83106	0.03	<1	105 ° 56 ' 07 "	44 ° 28 ' 47 "		vqz
132	H83107	0.03	<1	105 ° 41 ' 54 "	44 ° 25 ' 58 "		vqz
133	H83108	0.04	<1	105 ° 42 ' 11 "	44 ° 25 ' 57 "		vqz
134	H83109	0.32	<1	105 ° 42 ' 31 "	44 ° 25 ' 55 "		vqz
135	H83110	0.03	<1	105 ° 43 ' 14 "	44 ° 25 ' 46 "		vqz
136	H83111	0.03	<1	105 ° 43 ' 32 "	44 ° 25 ' 54 "		vqz
137	H83112	0.04	<1	105 ° 46 ' 47 "	44 ° 25 ' 26 "		vqz
138	H83113	0.03	<1	105 ° 48 ' 24 "	44 ° 25 ' 32 "		vqz
139	H83114	0.04	<1	105 ° 52 ' 43 "	44 ° 25 ' 16 "		vqz
140	H83115	0.03	<1	105 ° 53 ' 02 "	44 ° 25 ' 35 "		vqz
141	H83116	0.04	<1	105 ° 53 ' 43 "	44 ° 25 ' 28 "	vqz	
142	H82001	0.03	<1	106 ° 51 ' 59 "	45 ° 31 ' 59 "	Sologoi	sil rk
143	H82002	0.04	<1	106 ° 51 ' 31 "	45 ° 31 ' 43 "		sil rk
144	H82003	0.04	<1	106 ° 50 ' 32 "	45 ° 31 ' 20 "		sil rk
145	H82004	0.03	<1	106 ° 50 ' 15 "	45 ° 30 ' 28 "		vqz
146	H82005	0.03	<1	106 ° 50 ' 15 "	45 ° 30 ' 28 "		sil rk
147	H82006	0.15	<1	106 ° 50 ' 27 "	45 ° 30 ' 08 "		vqz
148	H82008	0.04	<1	106 ° 50 ' 28 "	45 ° 29 ' 40 "		sil rk
149	H82009	0.05	<1	106 ° 53 ' 41 "	45 ° 30 ' 33 "		vqz
150	H82010	0.14	<1	106 ° 53 ' 34 "	45 ° 30 ' 36 "		vqz

Appendix 2-6 Assay Results (ore analyses Au, Ag) (4)

Ser. No.	Sample No.	Au ppm	Ag ppm	longitude(east)	latitude(north)	area name	rock name
151	H82101	0.04	<1	106 ° 59 ' 29 "	45 ° 22 ' 32 "	Sologoi	sil rk
152	H82103	0.19	2	106 ° 58 ' 43 "	45 ° 21 ' 55 "		vqz
153	H82104	0.04	1	106 ° 58 ' 22 "	45 ° 21 ' 48 "		vqz
154	H82105	0.03	<1	106 ° 57 ' 12 "	45 ° 21 ' 43 "		sil rk
155	H82106	0.04	2	106 ° 57 ' 37 "	45 ° 21 ' 39 "		sil rk
156	H82107	0.22	22	106 ° 57 ' 28 "	45 ° 21 ' 30 "		vqz
157	H82108	0.06	2	106 ° 57 ' 19 "	45 ° 21 ' 27 "		vqz
158	H82109	0.04	<1	106 ° 56 ' 34 "	44 ° 21 ' 35 "		sil rk
159	H82110	0.46	7	106 ° 56 ' 57 "	45 ° 21 ' 20 "		vqz
160	H82111	0.06	1	106 ° 56 ' 38 "	45 ° 21 ' 15 "		vqz
161	H82112	0.05	2	106 ° 55 ' 34 "	45 ° 21 ' 19 "		skarn
162	H82113	0.04	<1	106 ° 46 ' 00 "	45 ° 20 ' 08 "		sil rk
163	H82114	0.05	<1	106 ° 45 ' 41 "	45 ° 20 ' 02 "		sil rk
164	H82115	0.04	<1	106 ° 45 ' 46 "	45 ° 19 ' 32 "		vqz
165	H82116	0.04	<1	106 ° 46 ' 46 "	45 ° 19 ' 47 "		sil rk
166	H82117	0.04	<1	106 ° 46 ' 31 "	45 ° 19 ' 59 "		sil rk
167	H82201	0.04	2	106 ° 53 ' 14 "	45 ° 06 ' 23 "		sil rk
168	H82202	0.05	<1	106 ° 53 ' 56 "	45 ° 05 ' 50 "		sil rk
169	H82203	0.05	<1	106 ° 53 ' 58 "	45 ° 05 ' 27 "		vqz
170	H82204	0.04	<1	106 ° 54 ' 20 "	45 ° 05 ' 51 "		sil rk
171	H82206	0.04	<1	106 ° 54 ' 38 "	45 ° 06 ' 03 "	sil rk	
172	H82207	0.04	<1	106 ° 58 ' 07 "	45 ° 06 ' 27 "	sil rk	
173	H82208	0.04	<1	106 ° 58 ' 09 "	45 ° 06 ' 28 "	sil rk	
174	H82209	0.05	<1	106 ° 44 ' 37 "	45 ° 10 ' 41 "	sil rk	
175	H82211	0.04	<1	106 ° 45 ' 05 "	45 ° 10 ' 44 "	sil rk	
176	H82212	0.04	<1	106 ° 45 ' 12 "	45 ° 10 ' 44 "	sil rk	
177	H82213	0.05	<1	106 ° 45 ' 33 "	45 ° 10 ' 39 "	sil rk	
178	H82301	0.04	<1	106 ° 44 ' 25 "	45 ° 17 ' 05 "	vqz	
179	H82302	0.04	<1	106 ° 41 ' 39 "	45 ° 16 ' 13 "	vqz	
180	H82303	0.04	<1	106 ° 41 ' 32 "	45 ° 16 ' 34 "	vqz	
181	H82304	0.04	<1	106 ° 40 ' 17 "	45 ° 16 ' 14 "	vqz	
182	H82305	0.04	<1	106 ° 40 ' 09 "	45 ° 16 ' 19 "	vqz	
183	H82310	0.04	<1	106 ° 36 ' 30 "	45 ° 10 ' 48 "	vqz	
184	H82311	0.04	<1	106 ° 36 ' 44 "	45 ° 10 ' 46 "	vqz	
185	A82305	0.06	6	106 ° 36 ' 30 "	45 ° 10 ' 48 "	vqz	
186	H82401	0.04	<1	106 ° 53 ' 50 "	45 ° 06 ' 33 "	sil rk	
187	H82402	0.04	<1	106 ° 54 ' 03 "	45 ° 06 ' 07 "	sil limestone	
188	H82403	0.04	1	106 ° 53 ' 25 "	45 ° 06 ' 32 "	alt mud stone	
189	H82404	0.04	<1	106 ° 53 ' 18 "	45 ° 05 ' 36 "	sil rk	
190	H82405	0.03	<1	106 ° 37 ' 06 "	45 ° 10 ' 41 "	vqz	
191	H82406	0.04	<1	106 ° 37 ' 24 "	45 ° 10 ' 34 "	vqz	
192	H82407	0.04	<1	106 ° 37 ' 29 "	45 ° 10 ' 26 "	vqz	
193	H82408	0.03	<1	106 ° 37 ' 37 "	45 ° 10 ' 21 "	vqz	
194	H82409	0.03	1	106 ° 37 ' 57 "	45 ° 10 ' 28 "	vqz	
195	H82410	0.03	3	106 ° 38 ' 34 "	45 ° 10 ' 30 "	vqz	
196	H82411	0.03	<1	106 ° 38 ' 47 "	45 ° 10 ' 24 "	vqz	
197	H82504	0.04	<1	106 ° 45 ' 32 "	44 ° 54 ' 37 "	Undur Uda	vqz
198	H82505	0.04	<1	106 ° 46 ' 39 "	44 ° 41 ' 24 "		vqz
199	H82601	0.05	<1	106 ° 39 ' 51 "	44 ° 42 ' 20 "		vqz
200	H82603	0.04	<1	106 ° 38 ' 51 "	44 ° 58 ' 32 "		sil rk

Appendix 2-6 Assay Results (ore analyses Au, Ag) (5)

Ser. No.	Sample No.	Au ppm	Ag ppm	longitude(east)	latitude(north)	area name	rock name
1	OA62702	0.08	<1	104 ° 08 ' 36 "	44 ° 23 ' 08 "	Olou Ovoot	sil rk
2	OA62902	0.05	<1	104 ° 09 ' 49 "	44 ° 22 ' 34 "		vqz
3	OA62903	0.04	2	104 ° 09 ' 48 "	44 ° 22 ' 57 "		qz-cal v
4	OA63002	0.05	<1	104 ° 10 ' 06 "	44 ° 22 ' 57 "		chl-qz v
5	OA70101	0.04	<1	104 ° 10 ' 25 "	44 ° 22 ' 44 "		cal-qz v
6	OA70202	0.05	<1	104 ° 10 ' 44 "	44 ° 22 ' 49 "		vqz
7	OA70204	0.04	<1	104 ° 10 ' 47 "	44 ° 22 ' 04 "		vqz
8	OA70301	0.04	<1	104 ° 11 ' 04 "	44 ° 22 ' 32 "		sil zone+vqz
9	OS62603	0.04	<1	104 ° 09 ' 37 "	44 ° 23 ' 12 "		vqz
10	OS70202	0.04	<1	104 ° 10 ' 17 "	44 ° 22 ' 54 "		vqz
11	OS70302	0.05	<1	104 ° 10 ' 54 "	44 ° 22 ' 37 "		vqz
12	OS70401	0.04	<1	104 ° 11 ' 01 "	44 ° 21 ' 37 "		sil ss
13	OS70402	0.05	3	104 ° 10 ' 57 "	44 ° 21 ' 59 "		hm skarn
14	OS70515	0.04	<1	104 ° 08 ' 41 "	44 ° 23 ' 05 "		alt sch
15	OS70516	0.04	<1	104 ° 08 ' 42 "	44 ° 23 ' 06 "		vqz
16	OS70518	0.08	1	104 ° 08 ' 42 "	44 ° 23 ' 07 "		alt sch
17	OS70521	0.04	<1	104 ° 10 ' 37 "	44 ° 22 ' 12 "		vqz
18	OS70522	0.04	4	104 ° 10 ' 37 "	44 ° 22 ' 11 "		alt dol sch
19	OS70523	0.03	4	104 ° 10 ' 37 "	44 ° 22 ' 10 "		alt dol sch
20	OS70524	0.04	3	104 ° 10 ' 37 "	44 ° 22 ' 10 "		alt dol sch

Appendix 2- 7 Assay Results (geochemical analyses) (1)~(50)

Appendix 2-7 Assay Results (geochemical analyses) (1)

Ser. No.	Sample		Au	Ag	Description
	Line	Distance	ppb	ppm	
1	0	3100	74	<0.2	wht ~ brn vqz
2	0	3300	<1	<0.2	grn mdg tfs phyl ss
3	0	3550	<1	<0.2	lt grn phyl sh
4	0	4000	<1	<0.2	grn-gry fng ss
5	0	4200	44	<0.2	grn mer dio
6	0	4325	95	<0.2	rd-brn mer phyl dio
7	0	4350	2974	<0.2	wht vqz & rd-brn ~ grn phyl rk
8	0	4375	72	<0.2	wht ~ brn vqz
9	0	4400	22	<0.2	wht ~ brn vqz
10	0	4425	41	<0.2	lt grn-gry fng phyl ss
11	0	4450	3	<0.2	lt grn-gry fng ss
12	0	4550	<1	<0.2	grn-gry mdg-fng phyl ss
13	0	4850	<1	<0.2	grn-gry mdg-fng phyl ss
14	1	3050	<1	<0.2	wht vqz
15	1	4250	<1	<0.2	rd-brn phyl ss
16	1	4300	190	<0.2	wht lm vqz
17	1	4325	149	<0.2	wht vqz grn phyl rk
18	1	4350	2670	<0.2	rd-brn sil hard dio w/ qzvit
19	1	4375	80	<0.2	lt grn-gry fng phyl ss
20	1	4400	2	<0.2	rd-brn ~ grn fng phyl hf & qzvit
21	1	4425	3	<0.2	rd-brn ~ brn (lm) ~ wht vqz
22	1	4450	2935	<0.2	rd-brn hg phyl rk, wk argd
23	1	4475	514	<0.2	rd-brn hg phyl rk
24	1	5000	<1	<0.2	grn-gry mdg phyllss
25	2	3200	82	<0.2	grn mdg dio withd
26	2	3550	<1	<0.2	grn mer dio
27	2	3750	<1	<0.2	grn mer dio withd
28	2	3950	<1	<0.2	grn-gry mdg hf
29	2	4150	<1	<0.2	lt grn-gry fng phyl ss
30	2	4250	53	<0.2	rd-brn phyl sil rk
31	2	4275	163	<0.2	wht ~ brn vqz
32	2	4300	47	<0.2	wht ~ brn (lm) vqz & rd-grn hg phyl rk
33	2	4325	57	<0.2	wht-brn vqz
34	2	4350	2841	<0.2	rd-brn mdg sil dio
35	2	4375	69	<0.2	wht vqz
36	2	4400	75	<0.2	pnk-dk gry mdg sil dio w/ qzvit
37	2	4450	24	<0.2	rd-grn-gry mdg hg phyl dio
38	2	4600	1	<0.2	rd-brn fng phyl ss
39	2	4750	6	<0.2	lt grn-gry mdg phyl ss
40	2	4950	20	<0.2	gry-brn sil lm ss
41	3	3100	1	<0.2	grn esg dio pnk qz
42	3	4100	24	<0.2	lt grn gry fng ss
43	3	4225	38	<0.2	wht lm vqz
44	3	4250	85	<0.2	rd-brn-grn mdg sil dio lm qzvit
45	3	4275	99	<0.2	wht vqz
46	3	4300	175	<0.2	rd-brn mdg phyl dio
47	3	4325	239	<0.2	grn-blk sil dio
48	3	4375	334	<0.2	rd-brn mdg phyl dio
49	3	4425	7	<0.2	rd-brn mdg phyl dio
50	3	4475	51	<0.2	wht vqz

Appendix 2-7 Assay Results (geochemical analyses) (2)

Ser. No.	Sample		Au ppb	Ag ppm	Description
	Line	Distance			
51	3	5000	16	<0.2	grn-gry fng phyl ss
52	4	3000	15	<0.2	grn mer phyl dio
53	4	3250	<1	<0.2	grn mer dio
54	4	3500	2	<0.2	grn mdg dio
55	4	3750	2	<0.2	grn mdg dio
56	4	3950	<1	<0.2	grn mdg dio
57	4	4200	23	<0.2	rd-brn phyl sh
58	4	4225	51	<0.2	vqz
59	4	4250	362	<0.2	wht ~ brn vqz
60	4	4300	22	<0.2	rd-blk-grn mdg dio
61	4	4350	1	<0.2	rd-brn mdg phyl dio
62	4	4400	67	<0.2	rd-grn mer dio pnk qz
63	4	4450	54	<0.2	rd-brn mer phyl dio
64	4	4550	5	<0.2	rd-grn mdg phyl dio
65	4	4700	2	<0.2	grn mdg phyl dio pnk qz
66	4	4900	1	<0.2	grn gry phyl dio
67	5	3100	1	<0.2	grn mer dio
68	5	3475	1	<0.2	grn mdg dio
69	5	4000	<1	<0.2	grn mdg dio
70	5	4100	16	<0.2	rd-brn phyl rk (dio) wthd
71	5	4135	1	<0.2	wht vqz
72	5	4150	27	<0.2	wht vqz
73	5	4175	10	<0.2	wht ~ brn vqz
74	5	4200	100	<0.2	rd-brn partly grn hg phyl dk w/ qzvlit
75	5	4225	496	<0.2	wht ~ brn vqz
76	5	4250	45	<0.2	pale rd-grn lm mdg dio pnk qz
77	5	4300	469	<0.2	rd-brn mdg phyl dio
78	5	4350	53	<0.2	rd-lt grn mdg hf
79	5	4450	40	<0.2	lt grn-gry mdg phyl ss
80	5	4500	8	<0.2	grn-gry fng ss
81	5	4600	5	<0.2	rd-grn mdg phyl dio
82	5	4800	8	<0.2	grn mdg dio
83	6	3700	8	<0.2	grn mer dio
84	6	3950	3	<0.2	grn esg dio
85	6	4050	2927	<0.2	wht vqz
86	6	4075	199	<0.2	wht vqz
87	6	4100	106	<0.2	rd-brn phyl (dio) & wht qzvlit
88	6	4125	89	<0.2	rd-brn phyl (dio)
89	6	4150	143	<0.2	wht vqz
90	6	4175	2814	<0.2	wht vqz
91	6	4200	149	<0.2	rd-brn mdg dio
92	6	4250	108	<0.2	rd-brn mdg dio
93	6	4300	18	<0.2	grn mer dio
94	6	4400	9	<0.2	grn mer dio
95	6	4500	14	<0.2	rd-grn mdg phyl dio
96	6	4600	18	<0.2	rd-grn mdg phyl dio
97	6	4800	1	<0.2	grn mdg dio pnk qz
98	6	5000	5	<0.2	grn mdg dio
99	7	3100	11	<0.2	grn mer dio
100	7	3500	24	<0.2	grn esg dio

Appendix 2-7 Assay Results (geochemical analyses) (3)

Ser. No.	Sample		Au	Ag	Description
	Line	Distance	ppb	ppm	
101	7	3900	3	<0.2	grn-gry hf
102	7	4000	65	<0.2	rd brn-gry hg phyl dio
103	7	4025	2205	<0.2	wht vqz
104	7	4050	38	<0.2	purp ~ brn hg phyl dio
105	7	4075	45	<0.2	rd-brn hg phyl alt rk (dio)
106	7	4100	149	<0.2	purp ~ brn hg phyl dio, wthd
107	7	4125	564	<0.2	wht vqz
108	7	4200	2052	<0.2	rd-brn~grn mdg dio
109	7	4300	4	<0.2	grn-blk mdg dio pnk qz
110	7	4500	2	<0.2	pale-pnk grn mdg phyl dio
111	7	4700	4	<0.2	wht vqz w/ blk band
112	7	4900	2	<0.2	grn mdg dio pnk qz
113	8	3700	28	<0.2	grn mdg dio
114	8	3925	658	<0.2	wht vqz
115	8	3950	21	<0.2	purp rd alt mer dio
116	8	3975	709	<0.2	rd-brn sil dio & qzvlr
117	8	4000	7	<0.2	wht vqz
118	8	4025	6	<0.2	rd-brn phyl sh
119	8	4050	25	<0.2	wht vqz
120	8	4100	20	<0.2	wht vqz
121	8	4125	4	<0.2	wht lm vqz
122	8	4150	4	<0.2	rd-grn gry hg phyl dio
123	8	4225	7	<0.2	grn mdg dio, lm
124	8	4400	<1	<0.2	grn mer dio
125	8	4600	2	<0.2	grn csg dio pnk qz
126	8	4700	1	<0.2	grn csg dio rd-brn alt band pnk qz
127	8	4800	1	<0.2	grn mer dio
128	9	3100	2	<0.2	grn-gry mdg ss
129	9	3300	3	<0.2	lt grn-gry phyl sh
130	9	3800	14	<0.2	grn mdg dio
131	9	3850	183	<0.2	rd-grn mdg dio
132	9	3900	4782	<0.2	wht vqz
133	9	3950	961	<0.2	purp-lm wht vqz
134	9	4000	49	<0.2	rd-brn hg phyl sdy sh
135	9	4100	8	<0.2	wht~brn vqz
136	9	4150	12	<0.2	lt grn-gry sil fng phyl ss
137	9	4250	21	<0.2	grn-gry fng ss
138	9	4400	5	<0.2	grn mer dio
139	9	4750	3	<0.2	grn mdg dio
140	9	5000	3	<0.2	grn-gry mdg hf
141	10	3700	3	<0.2	lt grn-gry fng ss
142	10	3800	7	<0.2	rd-dp grn mer dio
143	10	3850	13	<0.2	rd-brn alt wk argd rk
144	10	3900	9	<0.2	lt grn-gry mdg hg phyl ss
145	10	3950	15	<0.2	lt grn-gry mdg hg phyl ss
146	10	4050	26	<0.2	lt grn-gry mdg hg phyl ss
147	10	4100	19	<0.2	rd-brn alt sheared wk argd rk
148	10	4150	195	<0.2	wht vqz
149	10	4200	3	<0.2	grn-gry mdg sil ss
150	10	4350	2	<0.2	grn-gry fng phyl ss

Appendix 2-7 Assay Results (geochemical analyses) (4)

Ser. No.	Sample		Au	Ag	Description
	Line	Distance	ppb	ppm	
151	11	3600	4	<0.2	grn gry fng ss
152	11	3650	20	<0.2	lt grn-gry fng ss
153	11	3700	3	<0.2	grn mer dio
154	11	3750	3	<0.2	rd-brn ~ brn (lm) ~ wht vqz
155	11	3800	5	<0.2	wht vqz
156	11	3850	4	<0.2	rd-brn alt phyl sh
157	11	3900	3	<0.2	lt grn-gry fng phyl ss
158	11	3950	16	<0.2	lt grn-gry sdy phyl sh
159	11	4000	104	<0.2	wht vqz
160	11	4050	3	<0.2	lt grn-gry mdg sil ss w/ qzvlr
161	11	4200	5	<0.2	lt grn-gry fng phyl ss
162	11	4800	4	<0.2	grn mdg dio
163	12	3300	3	<0.2	grn-gry fng ss
164	12	3500	3	<0.2	grn-gry fng ss
165	12	3600	3	<0.2	grn-gry fng ss
166	12	3800	675	<0.2	rd-brn mer dio
167	12	3850	29	<0.2	wht vqz
168	12	3900	7	<0.2	grn-gry fng sil ss
169	12	3950	6	<0.2	wht vqz
170	12	4000	22	<0.2	pale rd-gry mdg sil ss
171	12	4100	5	<0.2	pale rd-gry mdg sil ss
172	12	4300	3	<0.2	grn-gry mdg phyl ss
173	12	5000	4	<0.2	grn and (marginal dio)
174	13	3550	10	<0.2	grn-gry fng phyl, ss
175	13	3650	144	<0.2	grn-gry mdg sil ss
176	13	3700	3521	<0.2	red-grn mer dio
177	13	3750	17	<0.2	grn-dk gry and
178	13	3800	40	<0.2	rd brn mer dio, wthd
179	13	3850	130	<0.2	grn mer dio
180	13	3900	8	<0.2	wht vqz
181	13	4000	13	<0.2	rd brn mer dio, lm
182	13	4100	6	<0.2	grn mdg dio pnk qz & cal v
183	13	4500	6	<0.2	grn-gry mdg sil ss
184	13	4700	4	<0.2	grn mer dio
185	13	4900	2	<0.2	grn mer dio
186	14	3000	10	<0.2	grn mer dio
187	14	3300	1	<0.2	grn-gry mdg phyl ss
188	14	3500	3	<0.2	lt grn-gry sdy sh
189	14	3600	3	<0.2	rd-brn mdg phyl sil ss
190	14	3650	25	<0.2	wht vqz
191	14	3700	5	<0.2	dk grn mdg dio
192	14	3750	13	<0.2	wht vqz
193	14	3800	270	<0.2	dk grn mer dio
194	14	3850	731	<0.2	dk grn mer dio
195	14	4100	7	<0.2	rd-brn alt rk, wthd
196	14	4300	1	<0.2	grn mdg dio, wthd
197	15	3600	37	<0.2	lt grn-gry fng mdg phyl ss
198	15	3650	32	<0.2	wht vqz
199	15	3700	165	<0.2	dk grn mdg dio pnk qz
200	15	3750	4458	<0.2	grn-gry and

Appendix 2-7 Assay Results (geochemical analyses) (5)

Ser. No.	Sample		Au	Ag	Description
	Line	Distance	ppb	ppm	
201	15	3800	635	<0.2	grn-gry mer dio
202	15	3900	115	<0.2	grn-gry fng phyl ss
203	15	3950	21	<0.2	rd-dp grn mer phyl dio
204	15	4250	1	<0.2	grn-gry fng phyl ss
205	15	4450	2	<0.2	grn-gry mdg phyl ss
206	15	4800	1	<0.2	grn csg dio, wthd
207	15	5000	13	<0.2	grn gry mdg phyl dio
208	16	3600	190	<0.2	lt grn-gry fng phyl ss
209	16	3650	42	<0.2	rd-grn fng mer dio
210	16	3700	647	<0.2	wht vqz
211	16	3725	251	<0.2	wht vqz
212	16	3775	272	<0.2	lt grn-yel mdg dio, many py, lm
213	16	3800	1384	<0.2	lt grn-gry mdg dio, py & wht vqz w/ py
214	16	3850	316	<0.2	dk grn mer dio
215	16	3900	12	<0.2	dk grn mer dio
216	16	4200	38	<0.2	grn mdg sil hf
217	16	4900	99	<0.2	grn md~csg dio
218	17	3100	4	<0.2	phyl ss
219	17	3500	8	<0.2	lt grn-gry phyl sh, wthd
220	17	3600	30	<0.2	lt grn-gry phyl ss
221	17	3650	9	<0.2	lt grn-gry phyl sh, wthd
222	17	3700	245	<0.2	lt grn-gry phyl sh, wthd
223	17	3750	270	<0.2	dk grn mdg dio, py, pnk qz
224	17	3800	139	<0.2	dk grn mdg dio, py, pnk qz, wthd & vqz
225	17	3900	13	<0.2	phyl ss
226	17	4450	3	<0.2	grn gry fng ss
227	17	4800	7	<0.2	grn mer dio
228	17	5000	1	<0.2	grn csg dio
229	18	3000	<1	<0.2	rd-grn mdg hf
230	18	3250	2	<0.2	grn-gry phyl sh
231	18	3500	<1	<0.2	grn-gry phyl; sheared
232	18	3600	13	<0.2	grn-gry phyl, sheared
233	18	3700	1338	<0.2	grn mer dio wht vqz
234	18	3750	286	<0.2	rd-brn mdg dio wht vqz
235	18	3800	58	<0.2	grn-gry mdg ss
236	18	3900	18	<0.2	dk grn mer dio, pnk vqz, wthd
237	18	4000	<1	<0.2	grn-gry mdg sil ss
238	18	4250	<1	<0.2	grn-gry mdg sil ss
239	18	4550	<1	<0.2	grn-gry fng ss, wthd
240	19	3400	5	<0.2	lt grn-gry fng sil ss
241	19	3600	27	<0.2	lt grn-gry sdy sh
242	19	3650	14	<0.2	dk grn mer dio
243	19	3700	1694	<0.2	grn mdg dio & wht qz vlet, py, partly rd-brn
244	19	3750	36	<0.2	dk grn mer dio, py
245	19	3800	1	<0.2	grn-gry phyl sh
246	19	3900	25	<0.2	grn-gry mdg ss
247	19	4100	<1	<0.2	grn-gry phyl ss, wthd
248	19	4400	<1	<0.2	lt grn-gry fng phyl ss
249	19	4700	1	<0.2	grn-gry fng ss
250	19	4900	11	<0.2	lt grn-gry fng ss, sheared

Appendix 2-7 Assay Results (geochemical analyses) (6)

Ser. No.	Sample		Au	Ag	Description
	Line	Distance	ppb	ppm	
251	20	3650	28	<0.2	grn-gry fng sil ss
252	20	3700	282	<0.2	wht vqz
253	20	3850	21	<0.2	phyl ss
254	20	3950	2	<0.2	wht vqz
255	20	4050	3	<0.2	grn-gry fng phyl ss
256	20	4200	<1	<0.2	lt grn-gry mdg ss
257	20	4500	1	<0.2	dk grn mdg hf (ss)
258	20	5000	<1	<0.2	dk grn-gry mdg sil ss
259	21	500	<1	<0.2	dk grn mdg dio pnk qz, wthd
260	21	650	25	<0.2	wht vqz
261	21	675	5	<0.2	granulated wht ~ brn vqz
262	21	700	81	<0.2	granulated wht vqz
263	21	750	7	<0.2	brn mer ~ mdg dio
264	21	900	121	<0.2	rd-brn mer dio, wthd
265	21	1100	<1	<0.2	grn-gry esg sil ss
266	21	2000	4	<0.2	grn-gry mdg sil ss
267	21	2100	1	<0.2	grn-gry mdg sil ss
268	21	2900	<1	<0.2	grn-gry mdg ss
269	21	3150	<1	<0.2	dk grn-gry mdg ss
270	21	3500	4	<0.2	grn-gry fng ss
271	21	3700	12	<0.2	grn-gry phyl sh
272	21	3850	3	<0.2	dk grn mdg dio
273	21	3900	9	<0.2	wht qz-tor v
274	21	3950	34	<0.2	grn-gry mer dio
275	21	4000	14	<0.2	rd-brn mer dio
276	21	4300	<1	<0.2	grn-gry fng ss
277	21	4650	2	<0.2	grn-gry phyl sh
278	21	4800	3	<0.2	grn-gry phyl sh
279	22	300	3	<0.2	gry phyl sh, wthd
280	22	600	6	<0.2	gry phyl sh, wthd
281	22	625	6	<0.2	wht vqz
282	22	650	17	<0.2	wht vqz
283	22	700	5	<0.2	rd-brn alt phyl rk, wthd
284	22	750	20	<0.2	rd-orange alt rk, wthd lm
285	22	900	15	<0.2	pale rd-brn mdg sil ss
286	22	1100	2	<0.2	grn-gry fng phyl ss
287	22	1700	1	<0.2	gry fng sil ss
288	22	1900	1	<0.2	grn-gry phyl sh
289	22	2000	3	<0.2	grn-gry fng phyl ss
290	22	2100	2	<0.2	grn-gry phyl sdy sh
291	22	2200	1	<0.2	wthd sh
292	22	2300	13	<0.2	grn-gry fng ss
293	22	2700	4	<0.2	grn-gry mdg sil ss
294	22	3300	2	<0.2	grn-gry fng phyl ss
295	22	3550	5	<0.2	grn-gry fng phyl ss
296	22	3700	4	<0.2	lt grn-gry phyl sh
297	22	3800	13	<0.2	rd-grn mdg sil ss
298	22	3850	4	<0.2	grn mdg dio
299	22	3900	4	<0.2	grn md~coag dio
300	22	3950	7	<0.2	grn mdg dio

Appendix 2-7 Assay Results (geochemical analyses) (7)

Ser. No.	Sample		Au	Ag	Description
	Line	Distance	ppb	ppm	
301	22	4000	15	<0.2	grn ~ rd-brn mer dio, cal v (powder)
302	22	4100	8	<0.2	grn ~ gry fng sil ss
303	22	4200	2	<0.2	grn ~ gry fng sil ss
304	22	4400	1	<0.2	rd-grn hf
305	22	4750	<1	<0.2	grn-gry sdy phyl sh
306	23	0	4	<0.2	rd-brn alt rk, wthd
307	23	700	2	<0.2	rd-brn alt dio
308	23	800	6	<0.2	rd-brn alt phyl dio
309	23	900	10	<0.2	rd-grn mdg dio
310	23	1000	<1	<0.2	fresh grn mdg dio, wthd
311	23	1150	1	<0.2	dk grn-gry mer dio
312	23	1350	2	<0.2	grn-gry fng sil ss
313	23	1950	2	<0.2	grn-gry mdg sil ss
314	23	2050	0	<0.2	grn-gry mdg sil ss
315	23	2150	2	<0.2	grn-gry mdg sil ss
316	23	2200	<1	<0.2	dk grn-gry sil ss
317	23	2300	<1	<0.2	dk grn-gry sil ss
318	23	2400	<1	<0.2	grn-gry fng~mdg sil ss
319	23	2950	<1	<0.2	grn-gry fng~mdg sil ss
320	23	3200	3	<0.2	lt grn-gry fng ss
321	23	3750	1	<0.2	lt grn-gry hg phyl ss
322	23	3850	1	<0.2	dk grn mer dio
323	23	3950	2	<0.2	dk rd ~ dk grn mer ~ mdg sil dio
324	23	4050	101	<0.2	hem rd mdg dio
325	23	4150	6	<0.2	dk rd-brn ~ grn mdg dio
326	23	4250	2	<0.2	dk grn mer dio
327	23	4350	1	<0.2	red-grn dio, wthd
328	23	4550	5	<0.2	grn-gry hg phyl sheared dio
329	23	4750	1	<0.2	dk rd-brn mer dio
330	24	100	2	<0.2	grn-gry mdg dio
331	24	200	1	<0.2	rd-brn hg phyl dio
332	24	500	1	<0.2	grn-gry fng sil ss
333	24	900	5	<0.2	rd-brn ~ grn mdg dio
334	24	1500	1	<0.2	fresh grn mer dio
335	24	2050	3	<0.2	dk grn-gry phyl mdg ss
336	24	2100	47	<0.2	grn-gry md ~ fng phyl ss
337	24	2150	4	<0.2	grn-gry md ~ fng phyl ss
338	24	2250	2	<0.2	grn-gry md ~ fng phyl ss
339	24	2650	1	<0.2	grn-gry hg phyl ss
340	24	3050	2	<0.2	grn-gry phyl ss
341	24	3350	1	<0.2	grn-gry fng phyl ss
342	24	3550	4	<0.2	dk grn-gry mdg phyl ss
343	24	3850	3	<0.2	grn-gry fng phyl ss
344	24	4000	3	<0.2	grn-gry and
345	24	4050	30	<0.2	grn mer dio
346	24	4100	5	<0.2	rd-brn mer dio
347	24	4150	2	<0.2	dk grn mer dio
348	24	4200	5	<0.2	dk grn mer dio
349	24	4250	12	<0.2	dk grn mdg dio feld
350	24	4400	2	<0.2	rd-brn hg phyl sheared rk (dio)

Appendix 2-7 Assay Results (geochemical analyses) (8)

Ser. No.	Sample		Au	Ag	Description
	Line	Distance	ppb	ppm	
351	24	4500	1	<0.2	vqz-tor
352	24	4750	1	<0.2	grn-gry mer dio
353	25	200	35	<0.2	grn hg phyl mer dio
354	25	300	800	<0.2	rd-brn ~ grn mdg dio & wht vqz
355	25	400	16	<0.2	dp grn mer dio, pnk qz
356	25	700	32	<0.2	rd-brn phyl dio
357	25	725	724	<0.2	wht vqz & rd-brn sil phyl dio
358	25	750	138	<0.2	pnk alt mer dio
359	25	975	10	<0.2	rd-brn sil phyl dio
360	25	1175	2	<0.2	grn-gry mer dio, wthd
361	25	1675	0	<0.2	fresh grn mdg dio
362	25	1775	<1	<0.2	fresh grn mdg dio
363	35	2025	20	<0.2	rd-brn hg phyl dio
364	25	2050	1840	<0.2	rd-brn hg phyl dio
365	25	2075	36	<0.2	rd-brn ~ dk grn phyl mer dio
366	25	2100	35	<0.2	wht vqz
367	25	2150	15	<0.2	grn-gry phyl ss
368	25	2200	12	<0.2	grn-gry phyl ss
369	25	2400	5	<0.2	grn-gry phyl sh
370	26	0	14	<0.2	grn-gry mer dio
371	26	200	16	<0.2	grn mdg dio pnk qz
372	26	275	77	<0.2	rd-dk grn mdg dio py & vqz
373	26	550	49	<0.2	rd-brn mdg phyl dio pnk qz
374	26	650	30	<0.2	rd-brn ~ yel-grn mdg dio
375	26	675	89	<0.2	lt gry phyl ser dio wht vqz
376	26	700	31	<0.2	lt gry sil dio (ss)
377	26	900	10	<0.2	grn phyl mer dio
378	26	950	2544	<0.2	rd-brn ~ grn phyl mer dio
379	26	1050	53	<0.2	grn-gry mdg vitreous ss
380	26	1750	3	<0.2	rd-brn phyl mer dio
381	26	1850	3	<0.2	dp fresh grn mdg dio
382	26	1950	5	<0.2	grn high phyl dio & powder cal v
383	26	2000	2	<0.2	rd-brn ~ grn phyl mdg dio, py
384	26	2025	5	<0.2	rd-brn ~ grn phyl mdg dio, py
385	26	2050	66	<0.2	rd-brn ~ grn phyl mdg dio, py
386	26	2100	1056	<0.2	rd-brn high phyl & wht vqz
387	26	2125	184	<0.2	wht vqz
388	26	2150	81	<0.2	wht vqz & lt grn-gry sdy sch (and)
389	26	2200	15	<0.2	rd-brn lt grn-gry phyl ss
390	27	250	6	<0.2	grn-gry mdg ss (mer dio)
391	27	550	191	<0.2	dk grn-gry mdg dio
392	27	650	202	<0.2	dk rd-brn phyl dio
393	27	700	163	<0.2	yel-brn lm dio
394	27	725	120	<0.2	wht vqz
395	27	800	2	<0.2	fresh grn mer dio
396	27	900	93	<0.2	dk grn mdg dio pnk qz
397	27	1000	13	<0.2	wht vqz
398	27	1100	6	<0.2	pale rd-grn-gry mdg ss (mer dio)
399	27	1300	2	<0.2	grn-gry mdg ss
400	27	1750	<1	<0.2	fresh grn mer dio ep vlt

Appendix 2-7 Assay Results (geochemical analyses) (9)

Ser. No.	Sample		Au	Ag	Description
	Line	Distance	ppb	ppm	
401	27	1950	2941	<0.2	wht vqz
402	27	2000	35	<0.2	grn mdg phyl dio pnk qz
403	27	2025	52	<0.2	red-brn phyl mer dio pnk qz
404	27	2050	154	<0.2	wht vqz
405	27	2075	52	<0.2	grn-gry phyl ser mer dio pnk qz
406	27	2100	38	<0.2	rd-brn-gry phyl and
407	27	2125	219	<0.2	wht vqz rd-brn alt rk
408	27	2200	9	<0.2	grn-gry mdg phyl ss (and)
409	27	2300	40	<0.2	grn-gry mdg ss pnk qz (and)
410	27	2550	2	<0.2	grn-gry phyl sh pnk qz
411	27	3000	2	<0.2	grn-gry fn-mdg phyl ss
412	28	300	5	<0.2	grn-gry ss
413	28	500	3	<0.2	grn-gry mer dio
414	28	650	13	<0.2	rd-brn phyl dio
415	28	700	5	<0.2	rd-brn mdg quartzite
416	28	800	2	<0.2	fresh grn mer dio
417	28	850	3	<0.2	grn-gry mdg dio
418	28	900	6	<0.2	rd-brn dio
419	28	1000	1	<0.2	dk grn mdg dio
420	28	1800	3	<0.2	dk grn and
421	28	1900	119	<0.2	rd-brn grn mdg phyl dio
422	28	1925	1118	<0.2	lt grn tf ser sch
423	28	1950	3755	<0.2	wht vqz
424	28	1975	8024	<0.2	wht vqz grn dio
425	28	2000	56	<0.2	wht vqz
426	28	2025	2534	<0.2	rd-brn mdg dio
427	28	2050	290	<0.2	wht vqz
428	28	2075	3290	<0.2	wht vqz
429	28	2100	211	<0.2	grn-gry phyl ser chl dio
430	28	2150	14	<0.2	grn-gry mdg phyl ser ss
431	28	2450	13	<0.2	grn-gry mdg phyl ser ss
432	29	625	34	<0.2	
433	29	675	8	<0.2	rd-brn mdg dio
434	29	700	90	<0.2	wht vqz
435	29	725	25	<0.2	
436	29	750	19	<0.2	wht ~ brn vqz, lm & yel brn dio
437	29	775	4	<0.2	rd-brn yel-brn mer dio, lm, qzvlit
438	29	800	1201	<0.2	yel brn mdg dio, lm, qzvlit
439	29	850	39	<0.2	grn-gry mer dio
440	29	900	8	<0.2	grn-gry mdg dio, pnk cal
441	29	950	55	<0.2	rd brn mdg dio, pnk cal
442	29	1025	4	<0.2	grn mdg dio, pl pnk cal
443	29	1125	5	<0.2	grn-gry fng ss
444	29	1325	3	<0.2	grn-gry mdg dio
445	29	1925	891	<0.2	rd-brn-grn mer dio
446	29	1950	127	<0.2	rd-brn grn mer dio lm
447	29	1975	831	<0.2	wht vqz & rd-brn dio
448	29	2000	757	<0.2	wht vqz
449	29	2025	3060	<0.2	wht vqz
450	29	2050	1615	<0.2	wht vqz