APPENDIXES

APPENDIX 1

MICROSCOPIC OBSERVATION OF ROCKS IN THIN SECTION(1)

Kiruku Hill and Nguluku Hill Sub-area

1. Igneous Rocks
2. Sedimentary Rocks

Microscopic Observation of Rocks in Thin Section (1)

Kiruku Hill and Nguluku Hill Sub-area (Igneous Rocks－1)

Sample Number	Rock Name (Geologic Unit)	Macroscopical features and microscopical texture and structure	Minerals
C003	Agglo-merate	・Brownish carbonate rich rock ・Angular sandstone pebble (≒ 5mm) and rounded carbonate pebbles are abundant.	◇Detrital Material ・Ankerite ≒ 10% unhedral grain ・Barite ≒ 10% sub～unhedral grain < 1mm ・Calcite ≒ 30～40% fine grain aggregate in matrix and pebbles ・Alkali feldspar ≒ 5% sub-euhedral grain < 0.5mm partly replaced by carbonate ・Quartz ≒ 30% extremely fine grain aggregate consisting matrix ・Pyrite ≪ 5% subhedral-euhedral grain partly replaced by hematite ・Hematite ≦ 5% replacing pyrite ・Apatite < 5% extremely fine grain Sandstone pebbles ≦ 10% ◇Matrix ≒ (30～40%) calcite, quartz, clay minerals, Fe-oxide
E001	Agglo-merate	・Light brown brecciated rock ・Sandstone, mineral frag-ments (plagioclase, barite, alkali feldspar), & carbonatitic minerals aggregate (< 0.2mm) set in a matrix of carbonate (dolomite?) and extremely fine grain quartz aggregate	◇Detrital Material ・Alkali feldspar < 0.3mm, ≦ 5% ・Plagioclase < 0.1mm, rare ・Carbonate (dolomite) ≦ 1mm ≒ 20% ・Sandstone, well sorted ≦ 1mm, 20% ・Mg-siderite < 0.5mm ≦ 10% fine grain aggregate ・Chromite < 0.2mm rare unhedral angular grain ・Apatite < 0.2mm ≦ 5% unhedral angular ・Fe-oxide (secondary) ≦ 5% replacing unknown phase (cubic?) ・Barite : sub-euhedral < 0.2mm, < 5% ◇Matrix ・Extremely fine grain quartz aggregrate ≦ 20% ・Dolomite : fine grain aggregate ≦ 20%

Microscopic Observation of Rocks in Thin Section (1)

Kiruku Hill and Nguluku Hill Sub-area (Igneous Rocks— 2)

Sample Number	Rock Name (Geologic Unit)	Macroscopical features and microscopical texture and structure	Minerals
E010	Agglo-merate	Highly carbonatized brownish brecciated rocks, containing large pebbles ≒ 2cm and numbers of grauules (1～3mm) Carbonate minerals and fragment are dominated but sandstone (carbonatized) pebbles and granules reaches 30% of the total thin section area.	◇Detrital Material • Mg-ankelite unhedral grain : massive aggregate (0.5mm) < 5% • Apatite subhedral～unhedral grain < 5% • Albite (stained) < 5% subhedral tabular grain, partly altered • Alkali-feldspar (fresh microcline) and plagioclase in sandstone pebbles (2cm wide). • Small subhedral plagioclase < 0.1mm, < 5% • Small subhedral alkali feldspar < 0.1mm, < 5% • Quartz fine grain unhedral grain < 0.1mm rare • Rutile rare • Fe-oxide (altered) < 5% • Sndstone fragments up to 30% ◇Matrix < 30% • Dolomite (?), quartz, clay minerals, Fe-oxide
E003	Agglo-merate	Highly carbonatized brecciated rock, containing highly carbonatized volcanic rock pebbles (< 1cm), sandstone (< 0.8mm) and fragments of silicate and carbonate minerals.	◇Detrital Material • Plagioclase angular grain < 0.3mm, < 5% • Alkali feldspar (microcline) angular grain < 0.5mm, < 5% • Apatite subhedral crystal < 0.3mm, < 5% • Fe-oxide partly altered (atoll texture), < 5% • Quartz Rounded grain rare • Barite • Small grain aggregate rare • Dolomite < 0.3mm, < 5% Subhedral grain ◇Matrix Extremely fine grain aggregate of silica minerals, clay minerals, carbonate and Fe-oxides.

Microscopic Observation of Rocks in Thin Section (1)

Kiruku Hill and Nguluku Hill Sub-area (Igneous Rocks－3)

Sample Number	Rock Name (Geologic Unit)	Macroscopical features and microscopical texture and structure	Minerals
G012	Extremely altered (silici-fied) rock No original Texture	Dark brown heterogeneous rock ・Dark mineral veinlets are developed network texture	・MnO mineral, extremely fine grain aggregate showing feathere-like network veinlets. ≦ 40% ・Barite < 20% fine grained unhedral ～ subhedral crystals. ・SiO_2-mineral < 30% ・Quartz 0.1mm partly developed ・Tridymite (?) : extremely fine grained fibrous crystal aggregate.

Microscopic Observation of Rocks in Thin Section (1)

Kiruku Hill and Nguluku Hill Sub-area (Sedimentary rocks — 1)

Sample Number	Rock Name (Geologic Unit)	Macroscopic Features / Microscopic Features	Identified Minerals and Material	
			Detrital Material	Matrix
E005	Limestone	Pale brown fine grained rock with detrital fragments (up to 0.2mm) including limestone (≦1cm) with bioclast (now filled with sparite)	・Quartz < 20% sub rounded grain ≦ 0.3mm ・Plagioclase rare subhedral ≦ 0.3mm (rounded) ・Rutile rare subhedral ≦0.1mm ・Zircon rare subhedra≦ 0.1mm ・Limestone with bioclast (sparite) and quartz and micritic matrix ・Fe-oxide rare	・Micrite ≒ 70% ・Clay minerals < 10%
E007	Sandstone	・Pale brown fine grained rock ・Well sorted	・Quartz < 50% Rounded grain < 0.1mm ・Plagioclase < 20%, < 0.1mm albite twin subhedral rounded grain ・K-feldspar < 0.1mm, < 20% subhedral partly replaced by sericite ・Muscovite < 10% ・Biotite < 10% ・Apatite < 5% ・Rutile < 5% ・Zircon rare rounded grain ・Baddeleyite rare fine grain, rounded shape ◇Secondary mineral < 5% sericite, clay minerals, Fe-oxides	
E015	Sandstone	・ Light brownish fine grained rock ・ Well sorted	・Quartz≦ 0.3mm ≦ 60% ・K-feldspar≦ 30% unhedral≦ 0.3mm partly replaced by sericite ・Plagioclase ≦ 10% unhedral albite twin ・Biotite ≦ 5% ・Muscovite rare	◇ Secondary minerals≦ 50% ・ Sevicite ・ Clay minerals ・ Chlorite ・ Fe-oxides

Microscopic Observation of Rocks in Thin Section (1)

Kiruku Hill and Nguluku Hill Sub-area (Sedimentary rocks－2)

Sample Number	Rock Name (Geologic Unit)	Macroscopic Features / Microscopic Features	Identified Minerals and Material	
			Detrital Material	Matrix
E015	Sandstone		・Zircon rare rounded grain ・Rutite rare un-hedral ≦ 0.1mm ・Fe-oxide rare ・Around margin of quartz, feldspar grains, clay mineral and chlorite are present. (secondary minerals)	
H002	Sandstone	・Light reddish brown altered sandstone ・Fe-oxide veinlets (< 0.2mm wide) are partly developed. ・This rock was originally well sorted medium grain sandstone	◇Relatively fresh domain Well sorted sandstone (moderately altered). ・Quartz < 0.6mm, ≦ 60% rounded shape ・K-feldspar (alkali-felds) partly or totally replaced by sericite ≦ 30% < 0.6mm ・Plagioclase ≦ 20%, < 0.5mm subrounded grain ・Iron oxide < 5% secondary, interstitial ・Interstitial secondary quartz aggregate. ◇Extensively altered domain ・K-felds. partly or totally altered to sericite and clay mineral ・Quartz : relatively fresh ・Barite, fine grain inter-stitial < 5% ・Extremely fine grained quartz aggregate with clay minerals ・Fe-oxide veinlets	

Microscopic Observation of Rocks in Thin Section (1)

Kiruku Hill and Nguluku Hill Sub-area (Sedimentary rocks— 3)

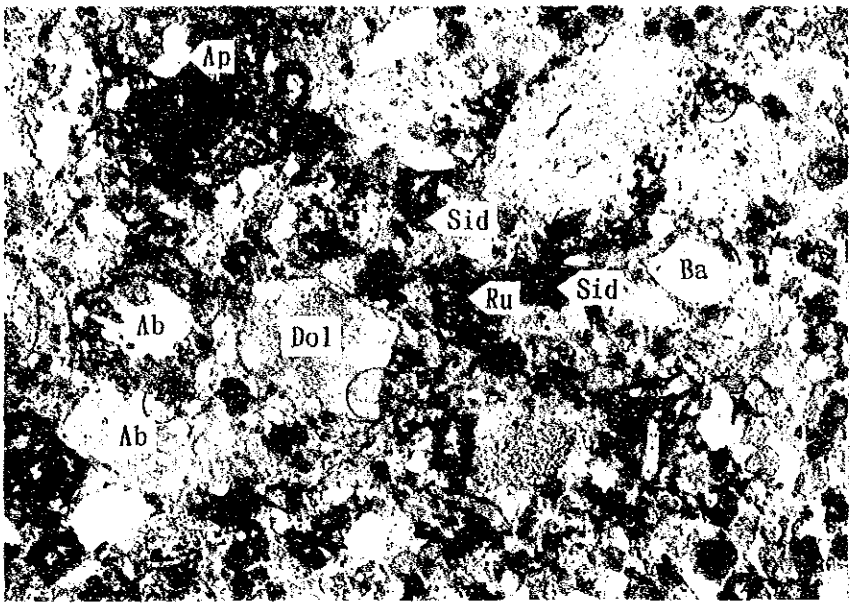
Sample Number	Rock Name (Geologic Unit)	Macroscopic Features / Microscopic Features	Identified Minerals and Material	
			Detrital Material	Matrix
E007	Sandstone	• Pale brown medium grained rock well sorted and compact. • Fine veinlets < 0.1mm wide.	• Quartz ≦ 60% subrounded ≦ 0.6mm • K-feldspar < 20% stained subrounded, < 0.6mm partly replaced by sericite • Plagioclase < 20% stained albite twin • Zircon rare rounded grain • Barite rare fine grain aggregate surrounding Fe-oxide • Fe-oxide rare altered ◇Secondary minerals < 5% sericite, clay minerals, Fe-oxide	

PHOTOMICROGRAPHS OF ROCKS IN THIN SECTION

— Kiruku Hill and Nguluku Hill Sub-area—

Abbreviations

Qtz	: quartz	Dol	: dolomite
Kf	: potassium feldspar	Sid	: Mg-Siderite
Ab	: albite	Ba	: Barite
Ap	: Apatite	Ru	: Rutile



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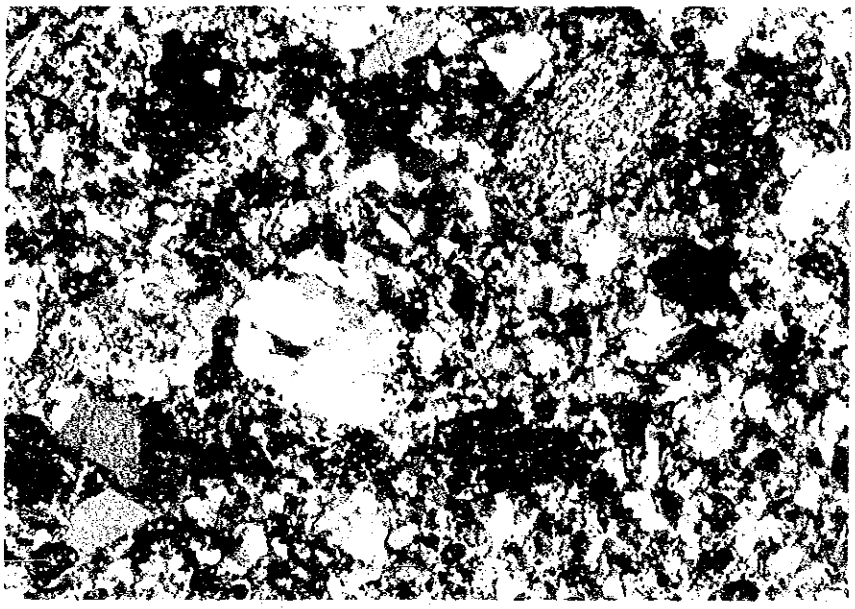
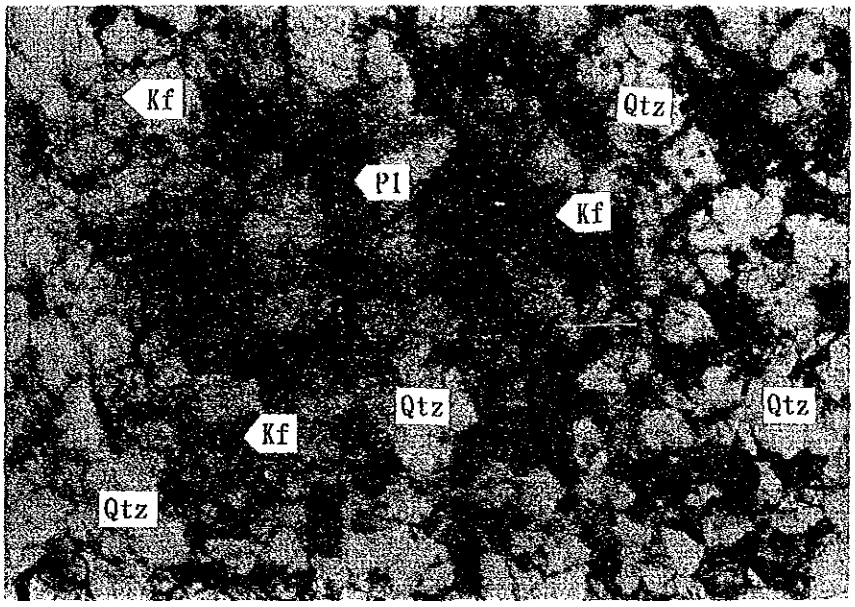


crossed polars

1mm

Sample No : E001
Formation : Ignious rock
Location : Nguluku Hill
Rock Name : Agglomerate

Photomicrographs(thin section)



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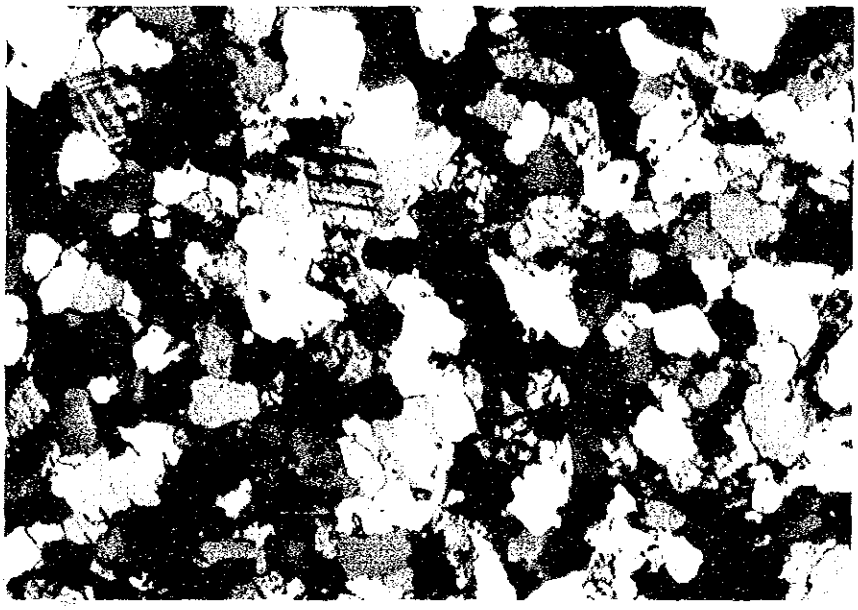


crossed polars

1mm

Sample No : H007
Formation : Maji-ya-Chumvi F.
Location : Kiruku Hill
Rock Name : Sandstone

Photomicrographs(thin section)

APPENDIX 2

MICROSCOPIC OBSERVATION OF ROCKS IN THIN SECTION(2)

Drill Core Samples

Microscopic Observation of Rocks in Thin Section (2)

Drill Core Samples (Sedimentary rocks－1)

Sample Number	Rock Name (Geologic Unit)	Macroscopic Features / Microscopic Features	Identified Minerals and Material: Detrital Material	Identified Minerals and Material: Matrix
KM1-T1 (MJKM-1 19.20m)	Altered sandstone (Mzm)	Well sorted medium grained sandstone	・Quartz≒ 80% ≦ 0.7mm in diameter. subrounded grain. ・Plagioclase≒ 5% partly altered ・Alkali feldspar ≒ 5%, microcline partly altered ・Muscovite rare ・Opaque rare ・Zircon rare ・Rutile rare	≒ 10% ・Calcite replacing matrix. ・Clay mineral ・Silica mineral probably quartz ・Sericite ・Zeolite
KM1-T2 (MJKM-1 83.30m)	Altered sandstone (Mzm)	Very well sorted fine grained sandstone	・Quartz≒ 80% ≦ 0.3mm in diameter subrounded～subangular ・Plagioclase≒ 5% microcline ≦ 0.3mm in diameter ・Alkali feldspar rare microcline ≦ 0.3mm in diameter ・Muscovite rare ・Biotite rare ・Opaque rare ・Rutile rare ・Garnet fragment rare	≦ 20% ・Clay mineral ・Silica mineral probably quartz ・Calcite replacing matrix ・Sericite (alteration)
KM2-T1 (MJKM-2 80.50m)	Meadium grained sandstone (Mzm)	・Moderately sorted medium grained sandstone ・Thin muddy layer (1mm thick)	・Quartz≦ 70% subangular～angular grain (up to 0.5mm in diameter) ・Alkali feldspar ≦ 5% subangular～subrounded grain(≦ 0.5mm) partly or totally altered to sericite	≒ 20% ・Clay mineral ・Sericite ・Chalcedony ・Opaque

Microscopic Observation of Rocks in Thin Section (2)

Drill Core Samples (Sedimentary rocks－2)

Sample Number	Rock Name (Geologic Unit)	Macroscopic Features / Microscopic Features	Identified Minerals and Material	
			Detrital Material	Matrix
			・Plagioclase ≦ 5% subangular grain(≦ 0.5mm) ・Calcite < 5% platy grain (< 0.5mm) (replacement origin?) ・Muscovite rare lath ・Opaque rare	
KM4-T1 (MJKM-4 61.50m)	Pisolitic limestone (K)	・Heterogineous pisolitic limestone containg pisoids, oncoids and bioclasts. ・Calcite vein (< 0.5mm thick)	・Pisoid (≒ 20%) 0.5～10mm in diameter, consisting of micrite, and concentrically laminated grain. Pisoid locally consists of concentrically laminated micritic outer zone and sparry calcite core. ・Oncoids : poorly preserved < 10% (< 0.3mm) ・Bioclast, ≒ 20% locally abundant	・Mainly micrite ・Partly grain supported with a spar cement.
KM4-T2 (MJKM-4 142.85m)	Banded calcareous sandstone (Mzm)	Well sorted sandstone	・Quartz≦ 50% subangular～ angular(< 0.3mm) long axis of each grain alligned along bedding ・Plagioclase< 10% angular grain (< 0.2mm) ・Alkali feldspar ≦ 10% microcline subangular (< 0.2mm) ・Biotite ≦ 10% lath	< 20% ・Clay mineral ・Sericite ・Chalcedony ・Calcite replacing parts of matrix

Microscopic Observation of Rocks in Thin Section (2)

Drill Core Samples (Sedimentary rocks－3)

Sample Number	Rock Name (Geologic Unit)	Macroscopic Features / Microscopic Features	Identified Minerals and Material: Detrital Material	Identified Minerals and Material: Matrix
			・Muscovite rare ・Opaque mineral rare ・Gypsum rare	
KM5-T1 (MJKM-5 95.15m)	・Banded sandstone ・Thin laminae rich in mica and opaque (Mzm)	・Altered banded sandstone with laminae consisting dominantly of micas and opaque ・Well sorted ・Thin quartz vein (< 0.2mm thick)	・Quarty≦ 50% subangular～angular(< 0.2mm) ・Plagioclase≦ 5% (< 0.2mm) ・Alkali feldspar ≦ 5% microcline (< 0.2mm) ・Biotite << 5% lath altered ・Muscovite << 5% ・Calcite << 5% ・Fe-Carbonate stained grain << 5%	= 30% ・Carbonate replacing mataix ・Clay mineral ・Quartz
KM5-T2 (MJKM-5 95.25m)	Altered sandstone (Mzm)	・Well sorted medium grained altered sandstone ・Extensively carbonatized.	・Quartz≦ 40% angular grain (< 0.3mm) ・Plagioclase rare partly altered (≦ 0.3mm) (sericite) ・Alkali feldspar rare partly altered (≦ 0.3mm) ・Carbonate grain (< 0.3mm) replacing feldspar? (stained) ・Muscovite rare	・Platy carbonate replacing matrix. ・Clay mineral ・Silica mineral probably quartz ・Sericite

Microscopic Observation of Rocks in Thin Section (2)

Drill Core Samples (Sedimentary rocks－4)

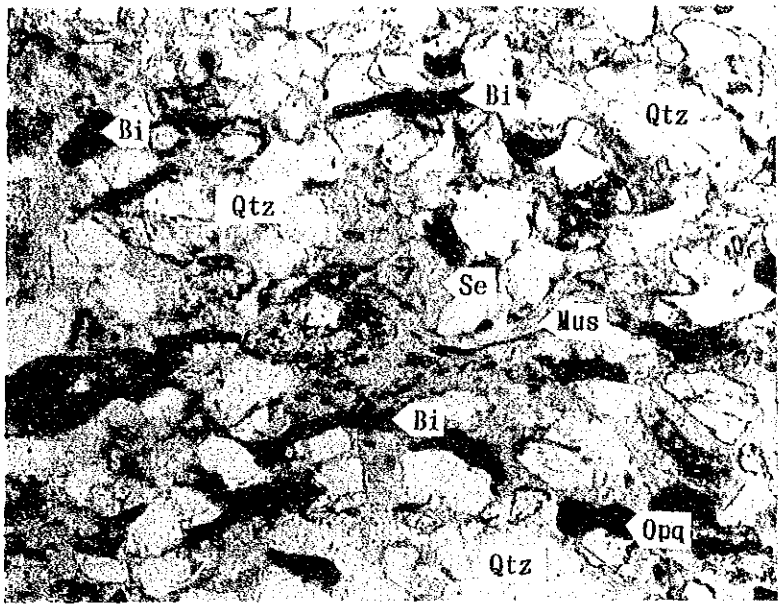
Sample Number	Rock Name (Geologic Unit)	Macroscopic Features / Microscopic Features	Identified Minerals and Material: Detrital Material	Identified Minerals and Material: Matrix
KM6-T1 (MJKM-6 78.90m)	Weakly banded silty sandstone (Mzm)	• Poorly sorted altered rock.	• Quartz≒ 30% subrounded large grain(≦ 0.5mm diameter) marginal area of the grain has a narrow band enriched in extremly fine inclusions. • Lithic fragment (< 5%) subrounded sandstone (≦ 0.5mm) • Zircon rare	> 60% • Subangular quartz abundant • Clay mineral • Opaque rare • Sericite rare • Biotite rare (altered)
KM6-T2 (MJKM-6 94.00m)	Silicified sandstone (Mzm)	• Moderately well sorted coarse grained silicified sandstone	• Quartz≒ 60% subangular～ angular grain. ≦ 0.4mm in diameter • Lithic fragment ≦10%, fine grained coarse grained sandstone with rounded shape • Garnet rare angular fragment	≒ 30% • Silica mineral probably quartz (by silicification) • Clay mineral • Muscovite rare (sericite)
KM6-T3 (MJKM-6 136.10m)	Pyritized sandstone (Mzm)	• Poorly sorted sandstone • Abundant pyrite	• Quartz≦ 50% subrounded grain ≦ 0.5mm in diameter. • Marginal zone of quartz grains exhibit a narrow band enriched in extremly fine unknown crystals • Biotite rare	≒ 50% • Clay mineral • Quartz • Opaque(pyrite) ≒ 5% • Muscovite (sericite) rare

PHOTOMICROGRAPHS OF ROCKS IN THIN SECTION

—Drill Core Samples—

Abbreviations

Qtz : quartz
Bi : biotite
Mus : muscovite
Se : sericite
Opq : opaque minerals



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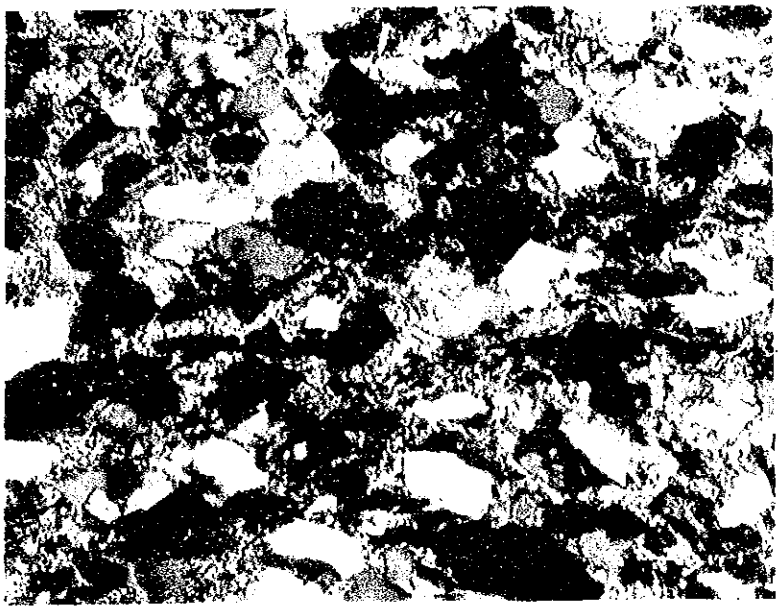
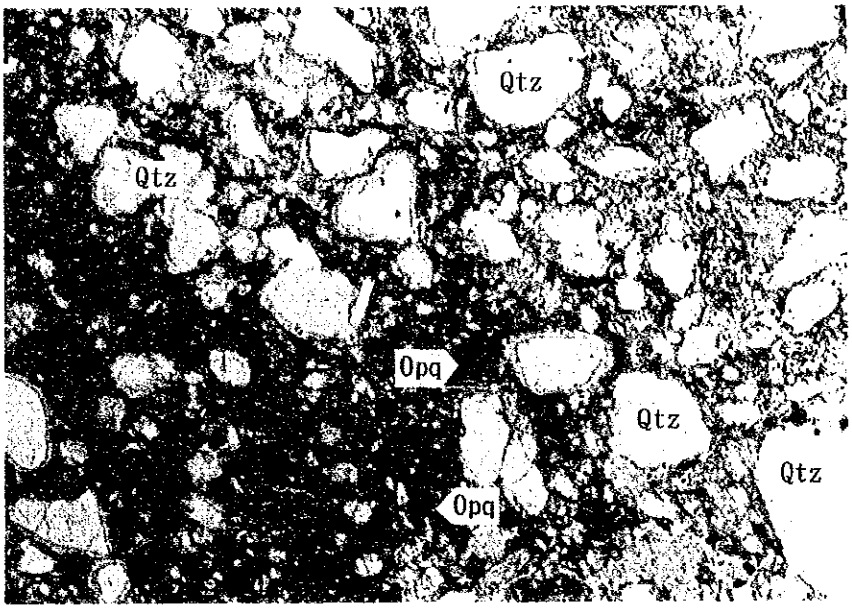


crossed polars

0.5mm

Sample No : KM4-T2
Formation : Mazeras F.
Location : MJKM-4, 142.85m
Rock Name : Sandstone

Photomicrographs(thin section)



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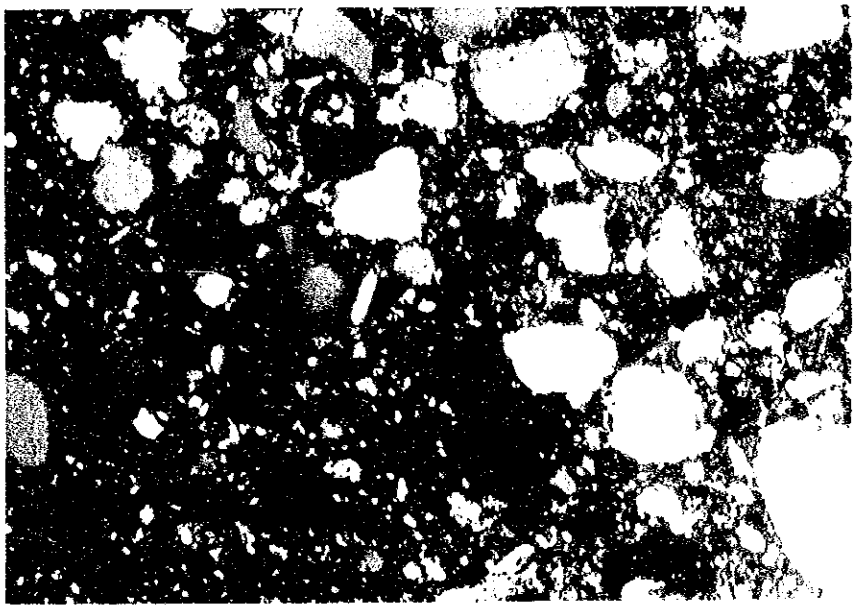


crossed polars

1mm

Sample No : KM6-T3
Formation : Mazeras F.
Location : MJKM-6, 136.10m
Rock Name : Poorly sorted sandstone

Photomicrographs(thin section)

APPENDIX 3

MICROSCOPIC OBSERVATION OF ORES IN POLISHED SECTION

Drill Core Samples

SUMMARY OF MICROSCOPIC OBSERVATION OF ORES IN POLISHED SECTION

— Drill Core Samples —

Sample Number	Hole Number	Sampling Depth(m)	Ore Type	Py	Cp	Sp	Qtz	Cal	Remarks
KM1-P1	MJKM-1	17.66	Pyritized sandstone	◎	—	×	—	—	Py fills intergranular spaces of Qtz grains. Sp ϕ=0.1-0.3mm
KM3-P1	MJKM-3	96.10	Pyritized sandstone	◎	—	×	—	—	Disseminated Py $\phi \leqq 0.4$mm, Sp ϕ=0.3mm
KM6-P1	MJKM-6	55.15	Pyritized sandstone	◎	—	—	—	—	Py as veinlets, fine grains and spotty fragments
KM7-P1	MJKM-7	77.20	Pyrite vein	◎	—	—	—	—	Aggregation of fine-grained Py, $\phi \leqq 0.1$mm
KM8-P1	MJKM-8	66.25	Sphalerite vein	×	—	◎	△	—	Massibe Sp vein with rare Py($\phi \leqq 0.1$mm)
KM8-P2	MJKM-8	74.30	Py-Cp-Sp-Cal-Qtz vein	×	△	○	○	◎	Cpϕ=1-2mm, Pyϕ=0.1mm±
KM9-P1	MJKM-9	60.67	Sp-Qtz vein	×	—	◎	◎	—	Py(ϕ=0.03mm) is in the wall rock
KM9-P2	MJKM-9	60.69	Sphalerite vein	×	—	◎	△	—	Massibe Sp vein with rare Py($\phi \leqq 0.01$mm)
KM9-P3	MJKM-9	61.48	Cp-Qtz vein	×	○	△	◎	△	Cpϕ=0.3-0.4mm, Sp $\phi \leqq 0.3$mm, Py ϕ=0.02mm
KM9-P4	MJKM-9	72.06	Cp-Qtz vein	△	—	×	◎	—	Sp ϕ=0.5mm, Py as veinlet(o.15mm wide) and fine grains($\phi \leqq 0.04$mm)

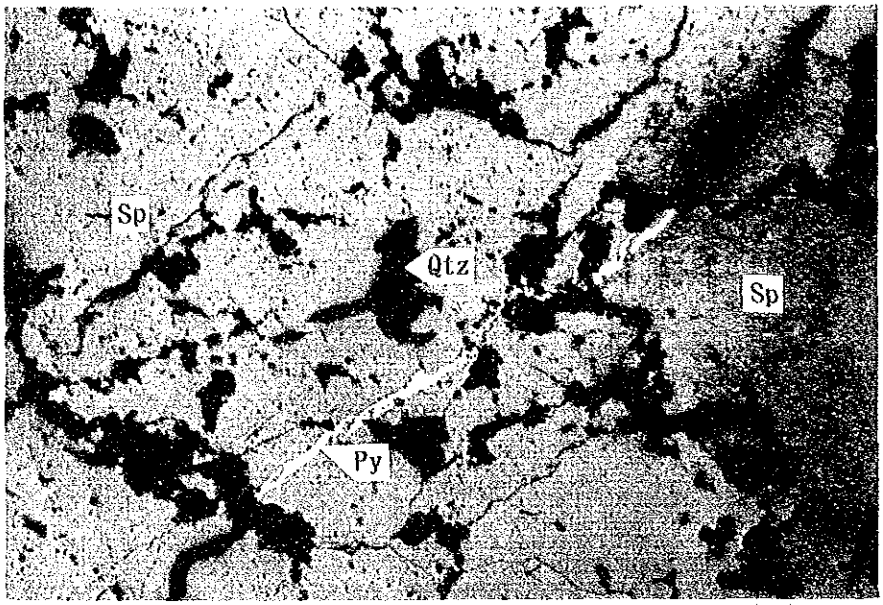
Abbreviations Py : pyrite Qtz : quartz
Cp : chalcopyrite Cal : calcite
Sp : sphalerite
◎ : abundant ○ : common △ : little × : rare

PHOTOMICROGRAPHS OF ORE MINERALS IN POLISHED SECTION

— Drill Core Samples —

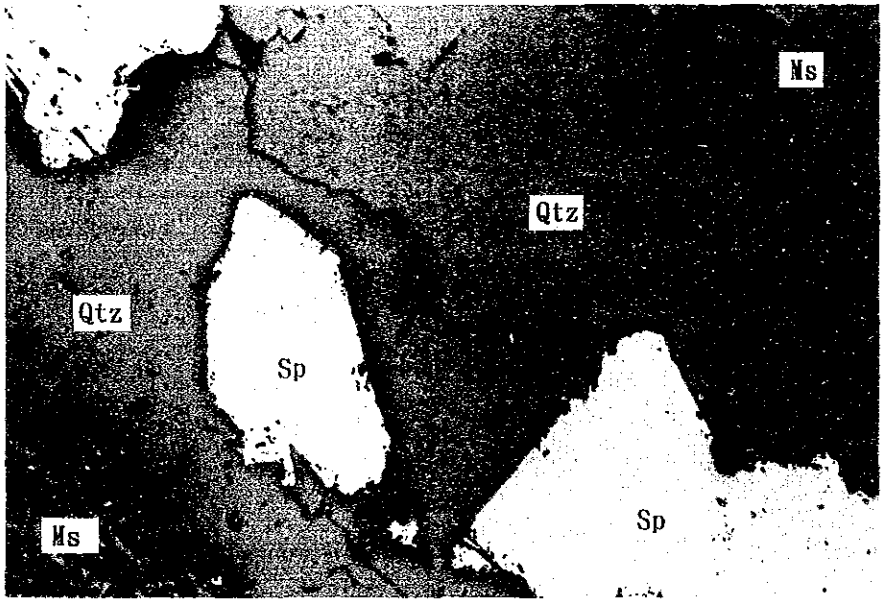
Abbreviations

Sp : sphalerite
Cp : chalcopyrite
Py : pyrite
Qtz : quartz
Cal : calcite
Ms : silicified mudstone



0.1mm

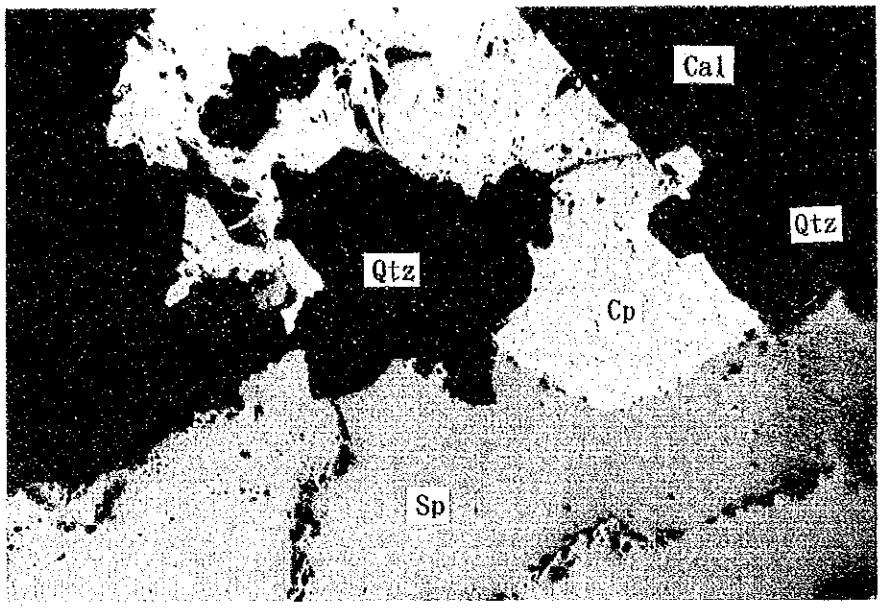
Sample No : KM8-P1
Location : MJKM-8, 66.25m
Ore Name : Py-Sp Vein



0.1mm

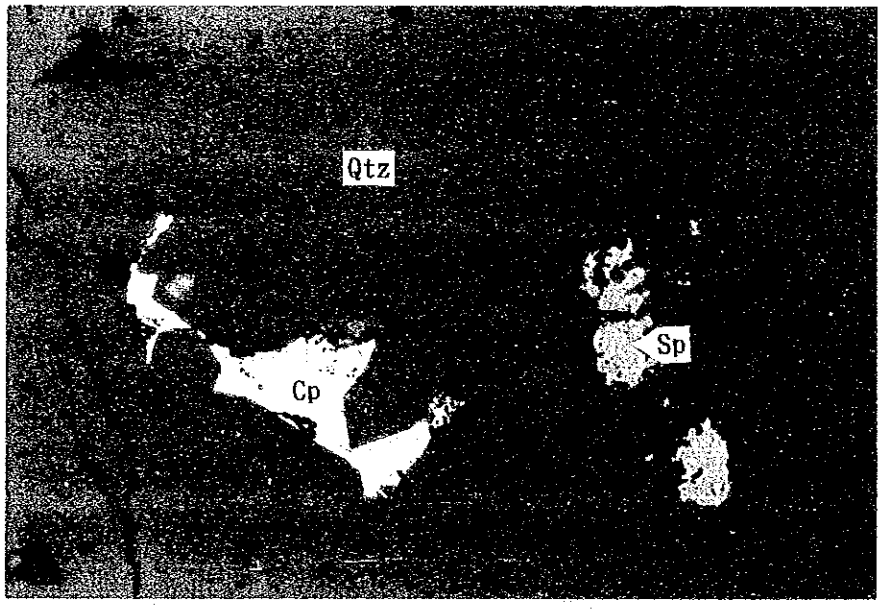
Sample No : KM8-P2
Location : MJKM-8, 74.30m
Ore Name : Py-Cp-Sp-Cal-Qtz Vein

Photomicrographs(polished section)



0.1mm

Sample No : KM8-P2
Location : MJKM-8, 74.30m
Ore Name : Py-Cp-Sp-Cal-Qtz Vein



0.1mm

Sample No : KM9-P3
Location : MJKM-9, 61.48m
Ore Name : Cp-Qtz Vein

Photomicrographs(polished section)

APPENDIX 4 SUMMARY OF X-RAY DIFFRACTION (1) – Kiruku Hill and Nguluku Hill Sub-area

Sample Number	Location	Rock Type	Ser	Qtz	K-fs	Ab	Goe	Hem	Ba	Jar	Dol	Sid	Ant	Plu-gum	Other Tests/Remarks
A009	Kiruku	Altered Ignious rock		◎	◎										
A012	Kiruku	Limonitic concretion		◎			△		△						
B003	Kiruku	Vein in sandstone	?	◎	◎	◎									
C002	Kiruku	Fe-Mn concretion					–		○						
E004	Kiruku	Fe-Mn concretion					△							△	Assay
E007	Kiruku	Altered sandstone		◎		◎									Thin section
E013	Kiruku	Altered agglomerate		◎	△	△		△			◎	△	–		Assay, Thin section
G010	Kiruku	Silicified rock		◎			△		△						Assay
G011-1	Kiruku	Silicified rock		◎			△		△	△					
G011-2	Kiruku	Fe-Mn aggregate		◎			△			–					
G012	Kiruku	Fe-Mn altered rock		◎					△						Thin section
G015	Kiruku	Vein in sandstone		◎	○	◎									
H001	Kiruku	Silicified rock		◎			△		△		△				Assay
H003	Kiruku	Limonite quartz vein		◎				–	–					△	
H005	Kiruku	Fe-Mn concretion					△								Assay
H006	Kiruku	Limonitized rock		△			○								

◎=abundant. ○=common. △=minor. –=rare. ?=uncertain.

abbreviation: Ser=sericite, Qtz=quartz, K-fs=K-feldspar, Ab=albite, Goe=goethite, Hem=hematite, Ba=barite
Sid=siderite, Dol=dolomite, Jar=jarosite, Ant=anatase, Plugum=plumbogummite

APPENDIX 5 SUMMARY OF X-RAY DIFFRACTION (2) – Drill Core Samples

Sample Number	DDH No.	Depth(m)	S/M	Ser	Kao	Op	Qtz	K-fs	Ab	Py	Ba	Cal	Ant	Anke	Mk	Sph	Remarks
KM1-X1	MJKM-1	19.20	△		◎		◎	◎		?		◎					
KM1-X2	〃	83.30	△		◎		◎	◎	◎	–		○					
KM3-X1	MJKM-3	30.30	△		◎		◎										
KM3-X2	〃	62.80		△	◎		◎	○									
KM3-X3	〃	108.90		–	◎		◎	△		△		○					
KM4-X1	MJKM-4	71.00		○	◎		◎			△	–	◎					
KM4-X2	〃	75.50			△		◎	△		○		◎	–				
KM4-X3	〃	95.70		△			◎				○			○			
KM5-X1	MJKM-5	79.00					◎				◎						
KM5-X2	〃	85.50			◎		○			△					–		
KM5-X3	〃	89.80		△	◎		◎										
KM6-X1	MJKM-6	73.90			△		◎				◎						
KM8-X1	MJKM-8	66.25			?	△	○			○		–				◎	
KM9-X1	MJKM-9	73.90			◎		◎			–				△			

◎=abundant. ○=common. △=minor. –=rare. ?=uncertain.

abbreviation: S/M=sericite/montmorillonite mixed-layer mineral, Ser=sericite, Kao=kaolinite, Ab=albite
Op=opal, Qtz=quartz, K-fs=K-feldspar, Py=pyrite, Ba=barite, Cal=calcite, Anke=ankerite
Spha=sphalerite, Ant=anatase, Mk=makatite

APPENDIX 6 CHEMICAL ANALYSIS OF ROCK SAMPLES

—Kiruku Hill and Nguluku Hill Sub-area—

Ser. No.	Sample No.	Au g/t	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
1	A-005	10	3870	7.11	>10000	1670	463	150	243	8.9	220	2491	4044	782	99	30.0	8.5	17.0	2.40
2	A-013	35	2820	6.63	255	1660	266	1370	172	28.0	220	2023	2849	903	113	34.0	11.0	15.0	1.80
3	E-004	<5	7760	>15.00	4990	8970	2600	1150	184	92.0	580	2221	4088	>1000	276	85.0	28.0	39.0	5.20
4	E-006	<5	590	8.05	2280	>10000	588	210	28	6.3	75	245	514	181	30	8.9	3.2	5.1	0.96
5	E-009	<5	770	6.07	1630	>10000	606	200	26	7.4	70	254	513	190	28	8.9	3.0	4.6	0.66
6	E-013	<5	740	6.06	1550	9770	611	180	24	5.9	60	195	436	158	26	8.4	2.5	4.8	0.63
7	G-010	<5	4190	13.05	8770	2350	389	990	321	8.9	770	1655	2920	>1000	290	90.0	27.0	40.0	5.30
8	G-016	<5	2400	>15.00	4210	2460	418	710	697	5.9	620	2770	4425	>1000	186	55.0	21.0	44.0	6.00
9	H-001	520	2830	6.65	1255	3440	597	305	201	7.1	270	6844	8008	>1000	136	36.0	13.0	21.0	2.60
10	H-005	<5	>10000	>15.00	>10000	2370	1490	5	12	5.9	95	187	234	158	41	17.0	6.8	13.0	1.70

APPENDIX 7 CHEMICAL ANALYSIS OF ORE SAMPLES -DRILL CORE SAMPLES-

Ser. No.	Sample No.	Cu %	Pb %	Zn %	Au oz/T	Ag ppm	Ba %
1	KM3-A01	0.006	0.018	0.121	0.0045	2	2.60
2	KM3-A02	<0.001	0.003	0.011	0.0020	<2	<0.01
3	KM5-A01	<0.001	0.002	0.002	<0.0005	<2	<0.01
4	KM5-A02	<0.001	0.003	0.001	<0.0005	<2	0.01
5	KM5-A03	<0.001	0.003	0.001	<0.0005	<2	<0.01
6	KM5-A04	<0.001	0.004	0.001	<0.0005	<2	0.07
7	KM5-A05	<0.001	0.005	0.001	<0.0005	<2	0.09
8	KM5-A06	<0.001	0.006	0.002	0.0005	<2	0.07
9	KM5-A07	<0.001	0.004	0.001	0.0005	<2	0.05
10	KM5-A08	<0.001	0.004	<0.001	<0.0005	<2	0.02
11	KM5-A09	<0.001	0.002	<0.001	<0.0005	<2	0.06
12	KM5-A10	<0.001	0.004	<0.001	<0.0005	<2	0.11
13	KM5-A11	<0.001	0.003	<0.001	<0.0005	<2	0.01
14	KM5-A12	<0.001	0.003	0.002	<0.0005	<2	0.01
15	KM5-A13	0.006	0.009	0.008	<0.0005	<2	0.05
16	KM5-A14	0.002	0.016	0.005	<0.0005	<2	<0.01
17	KM5-A15	<0.001	0.009	0.007	<0.0005	<2	0.05
18	KM5-A16	0.002	0.016	0.005	<0.0005	<2	0.50
19	KM5-A17	<0.001	0.010	0.018	<0.0005	<2	0.09
20	KM5-A18	0.006	0.015	0.033	<0.0005	<2	0.07
21	KM5-A19	<0.001	0.004	0.001	<0.0005	<2	0.01
22	KM5-A20	<0.001	0.007	0.001	<0.0005	<2	<0.01
23	KM5-A21	0.001	0.011	0.001	<0.0005	<2	<0.01
24	KM5-A22	0.006	0.008	0.004	0.0015	10	0.01
25	KM5-A23	<0.001	0.003	0.045	<0.0005	<2	<0.01
26	KM5-A24	0.002	0.006	0.003	<0.0005	<2	0.01
27	KM5-A25	0.001	0.006	0.027	<0.0005	<2	<0.01
28	KM5-A26	0.001	0.007	0.023	<0.0005	<2	0.26
29	KM5-A27	0.002	0.003	0.013	<0.0005	<2	<0.01
30	KM5-A28	0.001	0.002	0.011	<0.0005	<2	<0.01
31	KM5-A29	0.001	0.014	0.308	<0.0005	<2	<0.01
32	KM5-A30	0.003	0.006	0.007	<0.0005	<2	<0.01
33	KM5-A31	0.001	0.004	0.004	<0.0005	<2	<0.01
34	KM6-A01	0.001	0.008	<0.001	<0.0005	<2	0.01
35	KM6-A02	<0.001	0.004	0.015	<0.0005	<2	<0.01
36	KM6-A03	0.001	0.016	0.001	<0.0005	<2	0.05
37	KM6-A04	0.001	0.004	0.002	<0.0005	<2	<0.01
38	KM6-A05	0.001	0.003	<0.001	<0.0005	<2	<0.01
39	KM6-A06	<0.001	0.002	<0.001	<0.0005	<2	<0.01
40	KM6-A07	<0.001	0.002	<0.001	<0.0005	<2	0.01
41	KM6-A08	<0.001	0.003	0.001	<0.0005	<2	<0.01
42	KM6-A09	0.001	0.008	0.002	<0.0005	<2	0.44
43	KM6-A10	0.003	0.005	0.001	<0.0005	<2	0.11
44	KM6-A11	0.003	0.002	0.002	<0.0005	<2	0.40
45	KM6-A12	<0.001	0.003	0.015	<0.0005	<2	0.60
46	KM6-A13	<0.001	0.004	0.012	<0.0005	<2	0.02
47	KM6-A14	<0.001	0.004	0.011	<0.0005	<2	0.12
48	KM6-A15	0.004	0.004	<0.001	<0.0005	<2	0.07
49	KM6-A16	<0.001	0.004	0.002	<0.0005	<2	<0.01
50	KM6-A17	<0.001	0.003	0.029	<0.0005	<2	0.09
51	KM6-A18	<0.001	0.005	0.013	<0.0005	<2	0.01
52	KM6-A19	<0.001	0.002	0.006	<0.0005	<2	0.17
53	KM6-A20	<0.001	0.003	0.005	<0.0005	<2	0.17
54	KM6-A21	0.001	0.004	0.021	<0.0005	<2	0.18
55	KM6-A22	<0.001	0.007	0.020	<0.0005	<2	0.01
56	KM6-A23	<0.001	0.006	0.030	0.0010	<2	<0.01
57	KM6-A24	<0.001	0.004	0.008	<0.0005	<2	0.18
58	KM6-A25	<0.001	0.002	0.017	<0.0005	<2	0.11
59	KM6-A26	<0.001	0.002	0.018	<0.0005	<2	0.06
60	KM6-A27	<0.001	0.002	0.008	<0.0005	<2	<0.01
61	KM6-A28	<0.001	0.002	0.059	<0.0005	<2	0.01
62	KM6-A29	<0.001	0.004	0.009	<0.0005	<2	<0.01
63	KM6-A30	<0.001	0.003	0.044	0.0005	<2	<0.01
64	KM6-A31	<0.001	0.004	0.025	<0.0005	<2	<0.01
65	KM6-A32	<0.001	0.004	0.023	<0.0005	<2	0.01
66	KM6-A33	<0.001	0.002	0.020	0.0005	<2	0.01
67	KM6-A34	<0.001	0.004	0.013	<0.0005	<2	<0.01
68	KM6-A35	<0.001	0.003	0.020	<0.0005	<2	0.26
69	KM6-A36	<0.001	0.002	0.040	<0.0005	<2	<0.01
70	KM6-A37	<0.001	0.002	0.025	<0.0005	<2	<0.01
71	KM6-A38	<0.001	0.002	0.024	<0.0005	<2	<0.01
72	KM6-A39	0.002	0.003	0.009	<0.0005	<2	<0.01
73	KM6-A40	<0.001	0.003	0.061	<0.0005	<2	<0.01
74	KM6-A41	<0.001	0.004	0.014	<0.0005	<2	<0.01
75	KM6-A42	<0.001	0.004	0.011	<0.0005	<2	<0.01
76	KM6-A43	<0.001	0.003	0.018	<0.0005	<2	0.14
77	KM7-A01	0.001	0.007	0.003	<0.0005	<2	<0.01
78	KM7-A02	<0.001	0.004	0.004	<0.0005	<2	0.01
79	KM7-A03	0.002	0.006	0.007	0.0010	<2	0.01
80	KM7-A04	<0.001	0.003	0.004	<0.0005	<2	<0.01
81	KM7-A05	0.001	0.003	0.003	<0.0005	<2	0.01
82	KM7-A06	0.003	0.006	0.011	<0.0005	<2	0.02
83	KM7-A07	0.002	0.004	0.011	<0.0005	<2	<0.01
84	KM7-A08	0.001	0.009	0.026	<0.0005	<2	0.01
85	KM7-A09	0.002	0.006	0.003	<0.0005	<2	0.01
86	KM7-A10	0.001	0.005	0.012	<0.0005	<2	0.01
87	KM7-A11	<0.001	0.002	<0.001	<0.0005	<2	0.01
88	KM7-A12	<0.001	0.001	<0.001	<0.0005	<2	0.01
89	KM7-A13	0.001	0.003	<0.001	<0.0005	<2	0.01
90	KM7-A14	<0.001	0.001	0.002	<0.0005	<2	<0.01
91	KM7-A15	<0.001	0.001	0.004	<0.0005	<2	<0.01
92	KM7-A16	<0.001	<0.001	0.006	<0.0005	2	<0.01
93	KM8-A01	0.028	0.007	59.100	<0.0005	4	0.01
94	KM8-A02	0.007	0.001	4.410	<0.0005	<2	<0.01
95	KM9-A01	0.034	0.002	0.090	<0.0005	<2	<0.01
96	KM9-A02	0.024	0.002	11.600	<0.0005	<2	<0.01
97	KM9-A03	0.049	0.004	40.300	<0.0005	8	<0.01
98	KM9-A04	0.330	0.001	0.220	<0.0005	<2	0.01
99	KM9-A05	0.072	0.002	0.800	<0.0005	<2	0.01
100	KM9-A06	0.003	0.001	0.300	<0.0005	<2	0.01

APPENDIX 8

CHEMICAL ANALYSIS OF SOIL SAMPLES

RESULTS OF GEOCHEMICAL ANALYSIS

Kiruku Hill

Ser. No.	Sample No.	Au ppb	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
1	KA-01	<1	650	2.80	375	340	75	45	17	4.0	30	73	150	45	7.7	1.5	1.0	3.3	0.5
2	KA-02	<1	210	1.51	335	210	44	40	15	5.0	30	55	106	35	5.6	1.0	0.9	3.3	0.6
3	KA-03	<1	150	1.34	350	210	49	55	18	5.0	30	67	120	35	7.0	1.0	0.9	3.6	0.6
4	KA-04	<1	210	1.17	325	260	55	65	23	5.0	40	86	124	40	7.2	1.0	1.0	3.5	0.7
5	KA-05	<1	170	0.68	345	180	26	70	23	4.0	35	83	120	40	7.4	1.5	1.0	4.2	0.7
6	KA-06	1	210	0.91	445	240	48	80	28	6.0	40	104	124	50	7.5	2.0	1.2	4.7	0.8
7	KA-07	<1	160	1.26	800	290	41	90	30	8.0	45	118	152	45	8.4	1.5	1.1	4.7	0.8
8	KA-08	<1	170	1.43	630	270	39	100	31	7.0	50	115	142	45	8.4	2.0	1.2	5.1	0.9
9	KA-09	<1	300	1.68	1065	300	57	100	38	8.0	55	141	186	65	12.0	2.0	1.5	6.5	1.0
10	KA-10	2	360	1.70	985	370	68	130	44	8.0	65	155	202	65	11.0	3.0	1.6	6.8	1.1
11	KA-11	3	390	2.13	840	420	97	150	71	9.0	80	261	274	100	17.0	4.0	2.2	7.3	1.4
12	KA-12	<1	290	1.02	960	230	50	145	42	9.0	70	155	188	70	12.0	2.5	1.6	8.2	1.2
13	KA-13	2	340	2.10	1720	320	65	135	57	11.0	80	242	268	105	18.0	4.0	2.5	9.3	1.4
14	KA-14	<1	520	3.25	1550	410	100	115	47	9.0	80	209	346	100	17.0	4.5	2.4	8.5	1.3
15	KA-15	<1	200	1.59	925	240	49	70	28	9.0	60	112	212	60	11.0	2.0	1.4	6.9	1.1
16	KA-16	<1	350	2.43	790	330	64	65	35	8.0	55	118	248	65	10.0	3.0	1.7	5.8	1.0
17	KA-17	<1	60	0.73	210	110	18	50	17	6.0	40	54	100	30	5.2	1.0	1.0	5.5	0.7
18	KA-18	<1	110	0.87	240	130	22	55	28	7.0	45	85	184	40	6.9	1.5	1.3	6.3	1.0
19	KA-19	1	240	1.84	55	110	41	50	35	5.0	40	96	160	50	9.0	2.0	1.4	5.6	0.8
20	KA-20	<1	40	0.57	10	90	19	40	38	9.0	40	87	178	50	8.6	1.0	1.2	4.4	0.9
21	KB-01	<1	160	2.21	505	110	31	35	25	9.0	30	68	138	45	7.5	1.5	1.0	3.9	0.8
22	KB-02	<1	170	1.95	355	130	43	70	29	8.0	40	79	150	40	7.9	1.5	1.3	5.2	0.8
23	KB-03	<1	220	1.48	300	160	44	60	28	7.0	40	94	134	45	7.6	1.5	1.2	4.8	0.8
24	KB-04	1	180	1.49	915	190	30	60	26	6.0	40	85	140	45	8.7	1.5	1.3	5.4	0.9
25	KB-05	1	360	2.30	800	260	51	75	28	6.0	40	119	192	50	9.1	2.0	1.3	5.6	1.0
26	KB-06	<1	240	1.30	755	200	43	140	31	7.0	45	108	150	50	7.9	1.5	1.3	5.2	0.9
27	KB-07	1	260	2.32	925	300	69	155	60	8.0	70	219	216	90	14.0	3.5	2.2	7.5	1.2
28	KB-08	3	410	2.73	1120	300	59	155	62	7.0	70	292	236	95	16.0	4.0	2.2	7.8	1.3
29	KB-09	4	290	2.90	1020	330	58	135	67	9.0	65	248	240	90	15.0	4.0	2.4	7.0	1.2
30	KB-10	7	330	3.77	1400	290	58	180	96	7.0	75	343	306	120	19.0	5.0	2.5	8.2	1.3
31	KB-11	8	390	3.23	1170	300	71	150	83	9.0	80	310	296	110	19.0	5.0	2.6	8.5	1.5
32	KB-12	4	410	2.47	1450	360	79	160	70	11.0	100	283	286	120	21.0	5.5	2.7	9.7	1.6
33	KB-13	3	1000	3.34	2640	600	136	235	89	12.0	90	447	584	180	29.0	8.0	3.5	9.7	1.5
34	KB-14	5	490	3.47	965	430	91	200	93	8.0	75	461	300	135	21.0	5.0	2.6	8.1	1.2
35	KB-15	5	440	2.96	1330	390	93	185	84	9.0	90	368	282	130	20.0	5.0	2.6	9.5	1.5
36	KB-16	6	470	3.05	1205	380	88	195	84	9.0	90	360	258	110	17.0	4.5	2.7	12.0	1.6
37	KB-17	4	380	1.88	425	270	75	150	66	9.0	70	247	248	80	13.0	3.5	2.1	9.6	1.5
38	KB-18	4	310	2.87	795	260	78	85	55	9.0	60	141	244	60	11.0	3.0	1.9	8.1	1.3
39	KB-19	<1	190	2.15	580	220	48	60	40	10.0	50	97	198	50	9.2	1.5	1.6	6.9	1.0
40	KB-20	1	130	1.98	635	210	32	65	54	13.0	70	122	266	70	12.0	1.5	1.8	8.5	1.3
41	KC-01	<1	400	2.06	540	120	58	70	27	6.0	40	106	160	50	9.4	2.0	1.2	4.2	0.6
42	KC-02	1	230	1.76	565	230	48	70	27	7.0	40	106	142	55	8.8	2.0	1.2	4.8	0.8
43	KC-03	4	670	2.40	2650	300	61	80	29	6.0	45	120	232	60	9.7	3.0	1.3	5.0	0.7
44	KC-04	10	270	1.52	100	280	59	85	29	7.0	45	109	150	50	8.3	2.0	1.1	5.0	0.6
45	KC-05	1	270	1.63	940	270	54	90	39	8.0	45	137	180	55	8.9	2.0	1.3	5.4	0.9
46	KC-06	2	470	2.15	965	310	76	165	53	9.0	65	185	210	70	12.0	3.0	1.8	7.7	1.0
47	KC-07	<1	310	1.53	1250	270	64	155	51	9.0	60	190	190	70	12.0	3.5	1.9	6.9	1.0
48	KC-08	2	570	2.24	1215	320	80	150	69	9.0	70	278	252	100	16.0	4.5	2.0	6.6	1.1
49	KC-09	4	420	2.54	1305	330	88	160	72	10.0	70	263	252	100	15.0	4.5	2.1	7.7	1.3
50	KC-10	9	640	3.41	1655	500	114	250	137	11.0	120	486	434	175	28.0	8.0	3.5	11.0	1.7
51	KC-11	9	580	3.36	1155	490	119	190	125	11.0	80	368	348	130	21.0	5.5	2.9	8.8	1.4
52	KC-12	3	4130	7.69	8140	3030	960	835	157	31.0	210	1130	2080	650	96.0	30.0	10.0	20.0	2.9
53	KC-13	4	830	2.97	1700	530	112	235	126	14.0	110	478	398	175	28.0	7.5	3.5	11.0	1.8
54	KC-14	7	770	3.44	1370	550	130	250	130	12.0	100	542	374	175	27.0	7.5	3.2	10.0	1.4
55	KC-15	8	630	3.72	1385	380	84	210	119	10.0	85	495	314	145	21.0	6.5	2.8	9.3	1.3
56	KC-16	10	510	4.23	1475	390	95	260	157	12.0	125	641	386	175	25.0	7.0	3.2	14.0	1.9
57	KC-17	5	390	1.70	1170	250	56	105	70	11.0	70	197	222	75	12.0	3.5	1.8	8.9	1.4

RESULTS OF GEOCHEMICAL ANALYSIS

Kiruku Hill

Ser. No.	Sample No.	Au ppb	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
58	KC-18	1	180	1.99	810	280	55	70	64	12.0	60	142	246	65	12.0	2.5	1.7	7.1	1.2
59	KC-19	1	230	1.80	1345	210	49	85	69	15.0	80	173	294	85	15.0	3.5	2.1	9.4	1.5
60	KC-20	<1	170	1.52	1230	210	33	75	77	15.0	65	153	282	80	14.0	3.0	1.9	9.7	1.4
61	KD-01	1	190	1.31	295	190	33	90	32	9.0	40	92	122	50	8.5	2.0	1.1	5.4	1.1
62	KD-02	2	270	1.87	550	260	56	85	26	8.0	40	98	156	50	9.1	2.5	1.4	5.4	1.0
63	KD-03	2	310	1.78	720	300	66	95	28	7.0	45	107	146	60	9.4	2.5	1.5	5.4	0.9
64	KD-04	2	240	1.97	400	330	65	100	27	6.0	45	92	120	50	8.0	3.0	1.3	5.4	0.9
65	KD-05	<1	240	1.08	320	170	46	85	22	6.0	40	101	112	40	7.5	1.5	1.0	4.2	0.9
66	KD-06	1	340	1.98	860	590	72	120	39	6.0	55	135	150	65	11.0	3.5	1.6	5.4	0.7
67	KD-07	4	450	3.09	915	420	100	120	60	8.0	70	200	210	85	13.0	4.0	2.1	6.6	1.2
68	KD-08	5	340	2.47	1235	400	70	100	65	8.0	70	202	246	100	16.0	4.5	2.1	7.7	1.1
69	KD-09	10	620	4.61	1610	540	86	205	108	8.0	110	400	342	160	27.0	8.0	3.3	9.8	1.5
70	KD-10	8	410	3.59	1500	360	70	210	111	8.0	105	455	360	175	29.0	8.0	3.8	9.7	1.5
71	KD-11	10	550	3.94	1200	450	91	180	108	8.0	85	362	278	125	19.0	6.5	2.5	9.1	1.3
72	KD-12	8	800	3.56	1535	560	124	190	106	11.0	105	429	366	175	28.0	8.0	3.4	8.8	1.3
73	KD-13	7	740	3.78	1280	520	113	215	95	9.0	100	450	288	155	24.0	7.5	2.8	10.0	1.2
74	KD-14	14	880	4.79	1645	630	133	260	126	10.0	105	603	376	195	29.0	9.0	3.8	10.0	1.7
75	KD-15	10	720	3.91	1825	520	114	260	112	9.0	115	576	332	190	28.0	10.0	3.9	12.0	1.8
76	KD-16	9	870	4.03	2010	550	128	255	123	9.0	130	639	358	210	30.0	9.0	3.6	12.0	1.9
77	KD-17	5	350	3.23	925	330	86	120	83	8.0	90	237	260	100	16.0	5.0	2.3	9.4	1.5
78	KD-18	1	240	2.26	1075	330	59	70	55	11.0	75	135	228	80	14.0	3.5	1.8	8.9	1.4
79	KD-19	<1	210	2.49	1145	230	54	45	39	8.0	50	97	166	55	9.9	2.5	1.4	5.8	0.9
80	KD-20	2	150	2.13	1025	210	37	60	44	9.0	65	115	168	55	9.6	2.5	1.4	6.1	1.0
81	KE-01	3	200	1.63	700	220	55	90	24	4.0	50	131	144	75	12.0	2.4	1.8	5.1	0.9
82	KE-02	2	330	2.54	1375	360	66	95	38	<1.0	65	139	160	80	16.0	3.7	2.2	6.5	0.9
83	KE-03	2	330	2.13	475	340	83	90	32	2.0	45	109	132	60	13.0	2.7	1.4	4.7	0.9
84	KE-04	2	260	2.10	665	240	51	105	33	2.0	50	140	148	70	14.0	2.9	2.2	5.5	0.7
85	KE-05	2	210	2.44	720	250	64	80	26	2.0	45	108	142	55	9.0	2.4	1.1	5.0	0.6
86	KE-06	3	380	2.23	1830	350	99	90	21	3.0	50	187	196	75	10.0	2.5	1.3	6.2	0.9
87	KE-07	7	500	3.20	1920	410	99	135	36	4.0	75	214	270	115	19.0	4.5	2.6	8.0	1.1
88	KE-08	7	550	3.53	1325	410	71	240	96	8.0	100	339	352	150	29.0	6.8	3.5	10.0	1.0
89	KE-09	9	510	5.20	1095	480	91	280	140	6.0	115	490	422	200	41.0	7.9	4.5	11.0	1.9
90	KE-10	13	880	5.53	1645	680	143	380	210	7.0	135	732	536	285	42.0	10.0	5.5	11.0	1.9
91	KE-11	11	1170	4.58	2110	770	184	380	190	4.0	145	671	464	270	46.0	11.0	4.8	12.0	1.8
92	KE-12	12	1690	3.74	1835	900	207	440	150	4.0	130	557	440	230	39.0	9.0	4.4	9.6	1.4
93	KE-13	24	2860	7.01	4210	1240	245	555	120	7.0	190	1252	918	440	77.0	17.0	7.4	12.0	2.2
94	KE-14	19	2040	5.93	2920	1070	224	410	160	6.0	140	926	658	325	47.0	11.0	5.7	10.0	1.3
95	KE-15	11	1320	5.66	2190	910	178	410	150	6.0	125	939	546	305	43.0	11.0	4.2	9.4	1.4
96	KE-16	10	900	5.19	1695	610	127	310	79	4.0	115	701	428	235	38.0	8.8	4.7	9.8	1.1
97	KE-17	6	560	4.50	1525	430	97	195	100	5.0	110	267	272	125	23.0	5.2	3.4	8.9	1.8
98	KE-18	5	440	3.69	1170	370	80	135	36	1.0	80	163	202	80	13.0	3.8	1.9	7.8	1.3
99	KE-19	7	240	3.26	1110	280	54	105	40	2.0	80	122	174	60	12.0	2.6	1.5	6.1	1.0
100	KE-20	7	500	3.50	2120	270	66	120	48	7.0	80	149	216	90	13.0	3.6	1.9	6.7	1.0
101	KF-01	4	390	2.70	545	360	84	215	41	4.0	85	250	180	105	20.0	5.1	2.3	8.2	0.7
102	KF-02	3	330	2.15	895	320	74	210	60	7.0	90	224	188	105	19.0	5.2	1.6	7.1	1.0
103	KF-03	4	450	2.41	705	390	86	210	29	3.0	85	204	166	95	15.0	4.4	2.8	6.9	0.6
104	KF-04	3	430	2.38	1110	370	84	190	46	2.0	75	167	154	80	13.0	3.8	2.0	7.1	1.0
105	KF-05	4	390	2.44	825	380	98	180	56	8.0	70	173	178	85	13.0	3.5	2.2	6.4	1.2
106	KF-06	2	280	1.34	1080	390	90	125	35	3.0	55	112	164	65	11.0	2.5	1.3	5.4	0.8
107	KF-07	8	520	3.46	1600	530	71	275	100	7.0	110	331	366	150	27.0	6.1	2.9	9.5	1.7
108	KF-08	8	720	3.96	1970	530	105	355	150	3.0	145	394	444	185	33.0	8.3	4.0	11.0	1.1
109	KF-09	12	1570	4.47	1640	550	154	335	77	3.0	150	428	400	195	36.0	8.8	4.7	11.0	2.2
110	KF-10	11	870	4.70	2350	560	104	395	140	7.0	170	543	430	240	39.0	9.9	4.2	13.0	1.5
111	KF-11	9	850	5.03	1815	550	103	355	88	<1.0	140	617	448	225	33.0	9.5	4.7	9.7	1.6
112	KF-12	17	1710	4.55	2440	800	170	425	89	4.0	175	685	540	275	50.0	13.0	5.5	12.0	1.1
113	KF-13	25	3590	7.47	3720	1410	264	580	170	3.0	220	1415	1098	490	64.0	22.0	8.1	14.0	1.4
114	KF-14	21	2040	6.11	3130	1040	215	395	150	<1.0	150	943	702	300	46.0	13.0	4.4	9.7	0.7

RESULTS OF GEOCHEMICAL ANALYSIS

Kiruku Hill

Ser. No.	Sample No.	Au ppb	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
115	KF-15	12	1650	5.08	2330	870	189	410	120	1.0	130	935	618	280	51.0	12.0	4.6	8.8	1.7
116	KF-16	12	3120	5.60	2370	750	150	340	110	2.0	140	755	438	250	43.0	11.0	3.3	10.0	1.5
117	KF-17	5	760	3.66	2100	730	163	210	45	<1.0	120	297	258	130	17.0	6.0	2.8	9.3	1.2
118	KF-18	6	610	4.43	1860	530	132	185	47	1.0	125	234	264	115	23.0	5.7	2.4	9.6	1.3
119	KF-19	6	380	3.90	1185	380	77	115	32	5.0	85	184	248	75	18.0	3.8	2.0	7.4	0.4
120	KF-20	6	470	4.30	1450	290	74	100	42	3.0	70	165	240	55	12.0	3.1	1.4	7.3	0.8
121	KG-01	7	460	3.01	1255	440	89	260	104	10.0	115	381	342	155	29.0	8.0	4.4	13.0	1.4
122	KG-02	3	320	2.17	1105	290	61	205	61	7.0	95	305	264	140	25.0	7.0	3.8	9.4	1.2
123	KG-03	3	300	1.94	780	250	56	180	53	7.0	85	295	224	135	20.0	6.0	3.2	7.7	1.3
124	KG-04	4	370	2.20	905	360	83	190	61	8.0	85	344	254	120	23.0	7.0	3.4	10.0	1.3
125	KG-05	9	780	3.49	2030	560	135	265	100	11.0	125	530	342	205	32.0	10.0	4.6	12.0	1.6
126	KG-06	11	950	3.74	2570	740	169	360	168	10.0	165	542	416	235	39.0	12.0	5.8	16.0	2.3
127	KG-07	15	850	3.90	2210	660	135	390	212	10.0	180	601	532	265	46.0	15.0	6.7	16.0	2.0
128	KG-08	22	1230	5.24	2690	910	180	505	220	13.0	250	691	656	325	60.0	20.0	8.9	20.0	2.6
129	KG-09	18	1370	5.41	2280	840	176	450	217	10.0	190	668	634	265	45.0	16.0	7.1	17.0	2.8
130	KG-10	19	2510	5.57	2710	1210	270	475	211	10.0	210	693	680	280	49.0	16.0	7.9	19.0	1.8
131	KG-11	24	2860	5.75	2780	1250	279	510	199	10.0	230	828	820	345	60.0	21.0	8.7	18.0	2.6
132	KG-12	23	4270	5.49	3480	1430	311	425	236	12.0	210	968	958	370	66.0	20.0	7.6	16.0	2.0
133	KG-13	40	5860	7.72	5430	2220	447	720	30	26.0	230	63	1642	465	64.0	105.0	15.0	18.0	5.4
134	KG-14	24	4510	6.44	4670	1440	303	505	158	10.0	180	1400	1320	505	82.0	25.0	9.4	12.0	2.1
135	KG-15	14	2270	6.26	2290	1030	197	365	157	11.0	130	1255	928	400	61.0	17.0	6.4	13.0	1.4
136	KG-16	8	1700	4.41	2660	840	206	255	121	9.0	125	670	526	250	43.0	13.0	5.3	12.0	1.9
137	KG-17	9	890	4.74	1635	600	121	195	136	10.0	140	439	378	165	27.0	9.0	3.6	11.0	1.5
138	KG-18	8	650	4.86	1715	510	115	190	108	9.0	125	386	404	150	26.0	7.0	3.5	10.0	1.2
139	KG-19	9	950	5.47	2470	530	131	175	120	11.0	140	381	432	155	27.0	8.5	4.0	12.0	1.8
140	KG-20	14	900	5.12	1930	560	165	130	89	12.0	110	291	374	120	20.0	7.0	3.2	10.0	1.2
141	KH-01	6	790	3.35	1200	420	88	230	100	15.0	105	406	318	155	25.0	7.5	3.2	12.0	1.3
142	KH-02	3	360	1.69	790	240	55	140	68	9.0	70	191	178	80	16.0	4.0	1.7	8.1	1.2
143	KH-03	5	480	2.20	1005	310	80	150	60	8.0	75	232	226	95	16.0	4.5	2.0	6.2	1.0
144	KH-04	6	480	2.84	1220	330	81	175	75	6.0	90	334	274	125	20.0	6.0	2.7	6.7	1.0
145	KH-05	8	580	3.91	1600	450	116	280	131	10.0	135	500	466	205	33.0	10.0	4.4	11.0	1.6
146	KH-06	12	700	4.05	1600	630	138	350	145	12.0	170	529	486	220	36.0	12.0	5.0	14.0	1.6
147	KH-07	15	990	4.70	2130	640	152	355	189	9.0	190	613	540	245	41.0	13.0	5.5	15.0	2.2
148	KH-08	16	1270	4.33	2850	780	143	445	192	11.0	220	579	604	250	44.0	14.0	5.8	18.0	1.9
149	KH-09	22	2300	5.68	3190	760	161	485	285	10.0	250	811	918	330	56.0	19.0	8.6	26.0	2.9
150	KH-10	31	2640	5.96	2220	1230	306	535	307	13.0	270	893	1004	335	60.0	21.0	8.6	25.0	3.7
151	KH-11	16	3930	5.85	2840	1300	324	455	219	11.0	210	866	992	325	64.0	23.0	7.2	16.0	2.2
152	KH-12	13	4490	6.46	3820	2600	518	485	221	8.0	230	1606	1642	555	99.0	30.0	8.7	20.0	2.0
153	KH-13	23	8280	11.60	8310	4310	776	900	370	12.0	360	3270	3590	1280	170.0	50.0	13.0	26.0	3.8
154	KH-14	34	9970	11.35	6820	5410	1120	1060	415	19.0	470	3350	3640	1360	170.0	50.0	15.0	31.0	4.4
155	KH-15	11	5900	7.26	5710	2240	549	435	155	11.0	145	1328	1866	445	66.0	20.0	5.2	11.0	2.0
156	KH-16	6	3370	5.48	3550	1430	276	300	164	7.0	145	1121	976	320	53.0	16.0	5.2	13.0	1.5
157	KH-17	8	1830	5.30	2700	1000	223	285	155	9.0	165	799	604	260	43.0	13.0	5.3	11.0	1.6
158	KH-18	11	1120	5.94	2120	800	193	220	145	8.0	145	600	504	205	30.0	9.5	3.5	12.0	1.6
159	KH-19	11	650	5.52	2150	570	135	170	130	9.0	125	444	426	145	22.0	6.0	3.1	10.0	1.2
160	KH-20	13	880	4.83	2240	480	157	160	77	10.0	120	282	332	110	17.0	4.5	2.6	7.9	1.0
161	KI-01	5	580	1.64	1075	370	92	190	65	7.0	85	275	216	110	17.0	5.0	2.4	6.5	1.1
162	KI-02	6	320	2.02	1050	270	51	175	71	7.0	80	319	238	120	18.0	5.0	2.5	6.7	1.1
163	KI-03	9	320	2.52	1160	320	57	200	91	9.0	105	397	302	145	21.0	6.5	3.1	8.6	1.5
164	KI-04	9	640	3.26	2690	430	100	260	109	8.0	155	454	384	200	32.0	9.5	4.7	12.0	1.8
165	KI-05	10	560	4.06	1635	450	111	260	120	6.0	130	506	424	190	29.0	9.0	4.0	11.0	1.6
166	KI-06	14	990	4.24	1920	640	139	300	133	8.0	165	549	430	210	34.0	10.0	4.5	13.0	1.7
167	KI-07	16	1990	3.97	2900	840	192	330	164	9.0	185	593	572	245	41.0	13.0	5.8	15.0	2.0
168	KI-08	22	3080	5.03	3330	1150	297	385	197	9.0	230	719	790	295	47.0	15.0	6.6	16.0	2.1
169	KI-09	22	3000	4.18	2530	1230	297	415	199	8.0	230	642	764	265	47.0	18.0	7.1	17.0	2.5
170	KI-10	18	3390	6.60	3060	1310	316	665	315	8.0	300	1010	1250	440	81.0	27.0	10.0	22.0	3.3
171	KI-11	22	3620	6.23	2900	1330	361	750	254	9.0	250	1140	1490	425	65.0	21.0	7.8	19.0	2.9

RESULTS OF GEOCHEMICAL ANALYSIS

Kiruku Hill

Ser. No.	Sample No.	Au ppb	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
172	KI-12	18	4730	8.06	3180	1900	588	690	247	11.0	240	1430	1690	580	89.0	29.0	8.8	18.0	2.7
173	KI-13	12	6660	11.10	6890	3420	765	940	280	10.0	330	3000	2970	1100	136.0	40.0	13.0	23.0	3.4
174	KI-14	25	8580	13.05	9610	5810	942	1300	498	18.0	530	6700	7020	2260	271.0	80.0	25.0	40.0	5.3
175	KI-15	15	7530	7.64	4770	3720	1430	850	216	17.0	270	2250	2500	795	107.0	33.0	10.0	20.0	2.9
176	KI-16	9	3690	5.04	4710	1570	310	330	178	7.0	145	1040	1320	350	46.0	14.0	5.3	12.0	1.8
177	KI-17	9	1870	5.79	2470	920	198	350	174	7.0	145	1060	664	320	44.0	14.0	5.0	11.0	1.7
178	KI-18	11	1300	5.59	3400	700	157	345	181	9.0	185	870	564	310	46.0	15.0	5.5	12.0	1.9
179	KI-19	13	620	5.39	2290	440	119	235	137	9.0	130	466	370	170	24.0	7.0	3.5	12.0	1.8
180	KI-20	10	510	5.19	1645	480	125	165	111	9.0	110	291	290	115	18.0	5.5	2.9	8.7	1.5
181	KJ-01	3	430	1.65	800	230	55	145	55	9.0	75	231	232	100	18.0	5.0	2.2	8.2	1.3
182	KJ-02	5	290	2.54	985	270	64	145	57	7.0	80	271	268	110	18.0	4.5	2.5	7.2	1.2
183	KJ-03	8	410	3.21	1010	360	76	205	88	6.0	110	427	324	160	23.0	8.5	3.4	11.0	1.5
184	KJ-04	11	670	4.19	1935	490	108	285	130	7.0	150	646	502	245	38.0	11.0	4.8	12.0	1.7
185	KJ-05	11	660	4.59	1760	570	135	320	136	7.0	155	689	518	265	38.0	12.0	5.0	15.0	2.1
186	KJ-06	16	1850	4.80	2110	770	171	325	140	7.0	180	708	564	275	42.0	14.0	5.4	16.0	2.1
187	KJ-07	15	1290	5.51	2320	940	188	335	161	8.0	180	815	738	285	42.0	14.0	6.0	14.0	2.2
188	KJ-08	21	4670	6.71	3450	1350	305	445	206	7.0	240	999	1140	390	61.0	20.0	8.1	18.0	2.6
189	KJ-09	20	4040	6.45	3700	2500	783	665	247	10.0	360	1860	2220	730	109.0	35.0	12.0	28.0	3.8
190	KJ-10	29	3540	10.95	6270	2090	300	1200	501	10.0	660	2980	3760	1240	185.0	63.0	24.0	50.0	7.2
191	KJ-11	16	4130	10.75	5690	1550	308	1230	465	6.0	600	2130	2780	955	146.0	50.0	19.0	47.0	6.2
192	KJ-12	24	3380	8.68	3290	1310	246	850	308	7.0	370	1320	1800	580	91.0	31.0	12.0	30.0	4.4
193	KJ-13	31	4050	6.87	2440	2340	852	750	373	11.0	480	1400	1830	655	117.0	41.0	16.0	36.0	4.8
194	KJ-14	35	5910	9.26	4740	2110	388	825	317	10.0	360	2010	2150	755	109.0	36.0	13.0	26.0	4.0
195	KJ-15	29	5860	11.50	5820	2740	492	1050	317	12.0	380	3360	2920	1230	153.0	45.0	15.0	29.0	4.0
196	KJ-16	23	4530	9.49	5520	2420	559	925	325	12.0	360	3310	2590	1090	139.0	39.0	14.0	27.0	3.6
197	KJ-17	22	2240	7.84	4720	1160	260	640	255	9.0	290	2030	1330	650	80.0	24.0	9.2	21.0	3.1
198	KJ-18	26	1080	6.37	2740	720	158	440	193	8.0	180	1340	674	425	56.0	17.0	6.3	15.0	2.3
199	KJ-19	18	1610	5.72	3050	840	232	330	183	7.0	165	597	474	225	37.0	12.0	5.0	13.0	2.3
200	KJ-20	8	580	4.23	1860	490	134	320	106	7.0	140	473	298	160	23.0	7.0	3.5	12.0	1.6
201	KK-01	4	280	1.89	645	240	59	145	37	5.0	70	153	178	70	13.0	2.5	1.5	6.9	1.0
202	KK-02	3	360	1.79	935	290	61	165	45	6.0	90	208	214	100	17.0	4.5	2.5	8.2	1.2
203	KK-03	7	640	2.78	1270	560	130	260	72	6.0	135	354	304	145	24.0	6.5	3.1	12.0	1.8
204	KK-04	9	570	3.62	1715	450	84	310	96	6.0	140	475	360	190	30.0	9.0	3.8	13.0	1.7
205	KK-05	10	1260	4.90	2800	720	181	450	114	9.0	190	668	630	310	51.0	16.0	6.0	15.0	1.9
206	KK-06	11	1200	4.37	2630	690	126	400	116	7.0	175	570	468	260	42.0	13.0	5.1	13.0	1.9
207	KK-07	10	1520	4.64	2370	760	149	430	112	5.0	165	558	528	250	41.0	12.0	5.2	12.0	1.5
208	KK-08	15	2250	5.46	2940	1080	192	450	133	6.0	185	648	750	280	47.0	13.0	5.9	13.0	2.1
209	KK-09	15	4970	7.44	3940	1630	429	735	178	6.0	260	1000	1190	460	76.0	25.0	9.1	19.0	2.7
210	KK-10	23	3920	9.81	6030	1500	289	1230	382	6.0	470	1870	2350	905	161.0	49.0	17.0	32.0	4.5
211	KK-11	85	4210	10.20	4020	1300	298	1250	444	4.0	590	1720	2160	810	153.0	52.0	20.0	43.0	5.6
212	KK-12	139	3230	7.05	3020	1100	277	870	317	8.0	540	1190	1370	530	100.0	36.0	16.0	41.0	5.2
213	KK-13	18	3340	5.53	2850	1860	385	725	243	9.0	440	894	976	395	68.0	23.0	12.0	30.0	4.1
214	KK-14	30	2950	7.96	3620	1280	256	680	228	7.0	320	1170	1020	450	71.0	23.0	9.7	22.0	2.8
215	KK-15	30	3080	9.37	4350	1600	329	1010	280	10.0	390	2130	1660	760	112.0	35.0	13.0	30.0	3.6
216	KK-16	30	3780	9.90	4430	1910	376	1080	284	11.0	360	2940	2130	995	137.0	36.0	13.0	25.0	3.7
217	KK-17	26	3300	8.84	3560	1780	388	940	260	12.0	320	2950	1910	920	111.0	32.0	12.0	24.0	3.2
218	KK-18	26	1620	7.26	3390	1100	253	800	219	9.0	280	2150	1180	660	85.0	25.0	9.0	19.0	2.8
219	KK-19	22	1210	6.08	2620	860	208	665	186	7.0	230	1690	878	505	66.0	19.0	7.2	17.0	2.2
220	KK-20	11	650	4.10	1675	620	168	494	134	8.0	170	992	484	295	41.0	12.0	4.7	15.0	2.0
221	KL-01	<1	210	0.94	760	170	53	110	23	7.0	50	85	108	45	6.6	2.0	1.1	4.9	0.8
222	KL-02	3	260	0.95	725	230	61	140	30	6.0	60	114	130	60	9.3	3.0	1.6	7.2	0.9
223	KL-03	6	450	2.43	1155	330	68	150	71	7.0	100	310	260	130	20.0	6.5	3.0	9.0	1.3
224	KL-04	11	990	3.72	2560	670	137	210	109	9.0	155	462	432	215	35.0	10.0	4.9	16.0	2.4
225	KL-05	9	560	3.93	1605	480	96	195	102	7.0	145	431	394	205	33.0	8.5	4.2	13.0	1.7
226	KL-06	20	800	4.61	2070	540	109	250	128	9.0	195	463	430	215	36.0	11.0	5.7	15.0	2.2
227	KL-07	9	1130	3.69	1765	570	114	200	98	8.0	135	412	388	205	37.0	10.0	4.5	11.0	1.8
228	KL-08	14	3190	4.46	2260	790	172	265	116	7.0	150	495	668	235	40.0	12.0	5.2	14.0	1.7

RESULTS OF GEOCHEMICAL ANALYSIS

Kiruku Hill

Ser. No.	Sample No.	Au ppb	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
229	KL-09	26	2620	4.33	1910	930	216	415	163	7.0	220	696	918	340	61.0	19.0	7.6	14.0	2.2
230	KL-10	34	2450	5.75	2230	920	217	485	306	10.0	300	1010	1330	510	89.0	30.0	11.0	25.0	3.4
231	KL-11	17	3660	8.71	4710	1450	269	1050	411	13.0	480	1780	2470	960	165.0	52.0	19.0	36.0	4.7
232	KL-12	23	3800	7.79	4540	1320	239	710	488	6.0	470	1580	2270	855	156.0	53.0	19.0	33.0	4.4
233	KL-13	160	3240	6.62	3340	1010	240	495	278	8.0	430	1020	1230	480	88.0	28.0	13.0	33.0	4.5
234	KL-14	38	6220	7.65	2180	2370	377	395	230	10.0	310	811	1080	380	66.0	22.0	9.9	26.0	3.1
235	KL-15	32	2160	7.08	3540	1100	243	480	243	8.0	350	957	794	395	70.0	21.0	9.8	25.0	3.5
236	KL-16	28	1340	8.08	3180	950	196	500	253	8.0	300	1260	886	450	70.0	22.0	9.2	24.0	3.1
237	KL-17	28	1370	8.13	4110	930	211	515	243	9.0	290	1550	980	530	74.0	21.0	8.6	23.0	3.1
238	KL-18	32	1430	7.54	3110	970	204	545	233	9.0	290	1800	1030	605	80.0	24.0	9.1	22.0	3.2
239	KL-19	27	2010	7.46	3250	1190	266	575	225	9.0	270	2040	1270	670	86.0	24.0	9.2	20.0	3.0
240	KL-20	26	1640	7.87	3140	1140	254	590	260	10.0	270	2520	1430	785	101.0	29.0	9.8	22.0	3.0
241	KM-01	<1	330	1.51	920	220	56	70	19	7.0	45	90	150	45	8.8	2.0	1.1	4.7	0.5
242	KM-02	2	450	2.15	925	270	81	80	29	7.0	55	135	174	70	11.0	2.5	1.6	5.6	0.9
243	KM-03	5	620	2.53	1700	400	108	125	49	11.0	85	211	216	100	16.0	5.0	2.3	9.0	1.5
244	KM-04	7	460	3.40	1495	420	115	120	60	9.0	105	251	252	120	18.0	5.5	2.3	8.7	1.2
245	KM-05	7	600	3.14	1535	490	111	110	68	9.0	110	259	266	130	21.0	5.5	3.1	10.0	1.4
246	KM-06	7	2990	3.83	1595	500	125	120	77	9.0	125	281	288	140	25.0	6.5	2.9	8.5	1.7
247	KM-07	8	980	3.34	1250	620	167	120	64	8.0	100	224	244	105	17.0	6.0	2.7	9.0	1.0
248	KM-08	10	1270	3.81	1320	700	168	150	76	9.0	95	264	338	120	20.0	6.0	2.8	8.6	1.1
249	KM-09	23	3240	4.21	1560	840	330	270	146	10.0	160	436	582	195	36.0	11.0	5.0	12.0	1.6
250	KM-10	32	4100	5.68	3250	1470	469	350	156	9.0	195	531	730	250	39.0	12.0	5.9	16.0	1.6
251	KM-11	38	2700	4.85	3090	1090	303	280	152	9.0	190	532	706	230	38.0	11.0	5.1	14.0	1.9
252	KM-12	9	2250	4.78	1655	1190	303	145	96	9.0	130	312	434	140	23.0	7.0	3.0	10.0	1.4
253	KM-13	28	840	6.31	1935	610	131	270	161	9.0	220	552	608	225	39.0	13.0	5.7	16.0	2.0
254	KM-14	40	1170	7.27	3010	710	138	430	231	9.0	330	831	772	335	56.0	17.0	7.9	22.0	2.7
255	KM-15	24	860	6.35	2650	510	136	320	194	8.0	250	668	558	265	45.0	15.0	6.5	19.0	2.2
256	KM-16	8	1020	4.29	1585	700	212	170	113	9.0	140	280	354	130	22.0	6.0	3.3	12.0	1.9
257	KM-17	8	470	4.83	1625	370	106	160	106	8.0	125	349	328	135	22.0	6.5	2.8	9.4	1.3
258	KM-18	12	470	4.47	2120	390	84	225	114	9.0	150	434	364	160	28.0	9.5	3.8	12.0	1.8
259	KM-19	12	390	4.70	1625	290	54	250	134	8.0	125	706	478	205	29.0	9.0	3.5	12.0	1.3
260	KM-20	8	270	3.51	945	240	60	255	115	7.0	100	707	432	190	26.0	7.0	2.8	8.5	1.2
261	KN-01	1	250	1.66	875	220	89	90	36	14.0	70	138	184	70	12.0	2.5	1.8	8.1	1.5
262	KN-02	2	240	1.30	820	250	63	65	37	10.0	75	113	200	65	12.0	2.5	1.9	6.4	1.0
263	KN-03	2	340	1.82	1180	340	74	60	43	11.0	95	147	248	80	15.0	3.5	1.6	8.9	1.4
264	KN-04	3	330	1.75	1415	260	55	60	42	9.0	95	153	230	85	17.0	3.5	1.9	8.0	1.4
265	KN-05	8	770	2.88	2070	350	85	85	64	12.0	125	238	326	135	25.0	6.0	2.9	13.0	1.5
266	KN-06	3	630	2.65	1560	380	110	90	46	8.0	105	161	232	95	16.0	4.0	2.2	7.9	1.2
267	KN-07	7	820	3.11	1860	450	110	145	61	9.0	115	191	250	110	19.0	4.5	2.3	8.7	1.4
268	KN-08	4	790	2.30	1555	430	93	155	57	9.0	90	204	246	100	16.0	4.5	2.8	8.6	1.1
269	KN-09	21	1300	5.16	4610	670	186	315	153	16.0	130	420	1300	165	26.0	8.5	3.8	11.0	1.6
270	KN-10	22	2430	6.10	2960	940	235	390	151	9.0	180	521	722	240	41.0	13.0	5.0	15.0	1.9
271	KN-11	28	4240	4.98	2750	950	269	365	160	9.0	220	553	700	255	42.0	13.0	5.4	19.0	2.0
272	KN-12	17	3190	5.60	1905	760	226	240	138	9.0	180	434	532	195	30.0	11.0	5.0	14.0	2.0
273	KN-13	26	1280	6.38	2910	790	170	380	175	11.0	240	595	628	270	44.0	15.0	6.7	18.0	2.3
274	KN-14	38	980	6.60	2670	600	107	470	216	10.0	290	779	706	300	54.0	18.0	7.4	23.0	2.8
275	KN-15	28	1180	6.39	3280	720	187	450	214	10.0	290	698	588	300	54.0	17.0	7.4	22.0	2.5
276	KN-16	10	960	5.01	1930	780	231	200	127	8.0	145	291	338	120	22.0	7.0	3.2	12.0	1.6
277	KN-17	13	910	5.65	2720	570	154	285	189	13.0	170	675	584	255	42.0	14.0	5.7	17.0	2.2
278	KN-18	18	710	5.41	2470	560	121	350	184	11.0	180	836	570	305	47.0	14.0	6.0	17.0	2.6
279	KN-19	17	770	5.61	2250	560	122	405	234	11.0	160	1420	808	420	62.0	17.0	6.4	18.0	2.6
280	KN-20	12	520	4.65	1585	470	104	405	172	9.0	120	1170	624	300	39.0	12.0	4.4	12.0	2.0
281	KO-01	<1	100	0.26	30	80	25	60	17	6.0	40	45	74	30	4.3	1.0	0.4	3.6	0.8
282	KO-02	<1	440	1.08	845	130	59	105	36	10.0	80	100	172	60	9.6	1.5	1.7	6.8	1.2
283	KO-03	2	290	1.81	895	270	69	105	45	13.0	95	119	214	75	12.0	2.0	1.7	11.0	2.0
284	KO-04	3	350	2.58	835	320	65	80	52	12.0	105	156	250	90	15.0	3.5	2.4	9.7	1.4
285	KO-05	3	290	2.38	935	280	70	75	42	9.0	80	120	224	65	11.0	3.0	1.9	8.0	1.0

RESULTS OF GEOCHEMICAL ANALYSIS

Kiruku Hill

Ser. No.	Sample No.	Au ppb	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
286	KO-06	4	1590	2.81	1280	340	84	90	58	9.0	110	139	208	80	14.0	4.5	2.3	12.0	1.7
287	KO-07	3	490	2.10	1240	340	92	150	67	10.0	120	160	206	85	16.0	3.5	2.7	13.0	1.8
288	KO-08	8	820	3.76	965	500	139	205	91	7.0	115	254	248	110	19.0	6.0	2.7	8.7	1.4
289	KO-09	14	1120	3.93	2230	620	174	345	127	10.0	170	404	338	200	33.0	10.0	4.4	12.0	2.0
290	KO-10	23	1100	5.09	1530	690	194	440	168	10.0	200	542	462	245	38.0	12.0	5.2	15.0	2.3
291	KO-11	28	1530	5.54	2290	880	264	410	193	11.0	220	559	520	260	42.0	12.0	5.7	16.0	2.5
292	KO-12	15	1450	5.51	2540	850	225	385	185	11.0	230	528	472	220	38.0	12.0	5.6	17.0	2.4
293	KO-13	18	850	6.14	2500	530	132	335	158	11.0	200	487	426	210	36.0	10.0	5.0	15.0	2.4
294	KO-14	29	710	5.86	2660	560	120	435	190	9.0	250	570	502	240	42.0	13.0	6.5	20.0	2.5
295	KO-15	24	560	6.21	3110	510	119	395	197	9.0	250	573	486	240	43.0	13.0	6.2	19.0	2.9
296	KO-16	9	570	6.45	1680	390	102	245	125	10.0	145	302	298	125	23.0	6.5	3.6	9.4	1.7
297	KO-17	5	460	4.21	1325	290	80	180	77	9.0	105	201	230	90	15.0	5.0	1.9	7.2	1.3
298	KO-18	4	200	3.26	520	240	49	170	86	9.0	85	232	286	85	12.0	4.5	2.2	9.3	1.5
299	KO-19	4	190	2.37	470	220	48	210	77	8.0	85	278	324	95	14.0	4.5	1.7	7.0	1.1
300	KO-20	2	250	1.47	385	140	41	190	60	6.0	75	259	264	80	14.0	4.0	1.9	6.0	0.9
301	KP-01	1	220	1.26	175	140	60	110	37	9.0	75	96	146	60	9.2	2.5	1.5	7.9	1.0
302	KP-02	1	910	1.92	1310	750	274	165	34	11.0	95	188	318	110	18.0	4.5	2.2	8.4	1.2
303	KP-03	<1	250	1.43	670	280	80	125	37	11.0	90	115	198	70	12.0	2.5	2.1	10.0	1.8
304	KP-04	1	370	2.24	1030	310	78	85	48	10.0	105	127	214	85	13.0	3.0	1.9	10.0	1.6
305	KP-05	3	360	2.30	910	300	91	130	65	13.0	135	134	244	75	13.0	3.5	2.1	16.0	1.9
306	KP-06	2	280	1.78	730	260	63	105	48	10.0	105	193	186	65	12.0	1.5	1.9	11.0	1.4
307	KP-07	7	670	2.13	1450	360	99	210	78	9.0	140	204	190	105	21.0	5.5	2.7	14.0	1.8
308	KP-08	8	760	2.56	1695	490	130	255	96	9.0	145	252	224	115	23.0	6.0	3.6	13.0	1.9
309	KP-09	7	720	2.94	1235	570	138	155	77	7.0	105	190	194	90	17.0	5.5	2.6	10.0	1.4
310	KP-10	9	900	3.33	2060	590	151	235	105	9.0	135	356	300	155	27.0	8.0	3.8	12.0	2.1
311	KP-11	20	780	4.45	1580	680	155	390	151	11.0	200	555	358	230	36.0	12.0	5.6	19.0	2.4
312	KP-12	21	700	4.73	2170	450	115	370	161	9.0	210	525	376	235	40.0	13.0	5.3	17.0	2.6
313	KP-13	17	510	5.05	3240	340	67	290	133	10.0	185	428	372	205	30.0	10.0	4.5	16.0	2.4
314	KP-14	22	500	5.10	3130	330	68	360	158	9.0	220	515	404	230	38.0	13.0	5.5	22.0	2.5
315	KP-15	17	410	4.90	1970	330	86	320	139	9.0	180	450	388	190	30.0	11.0	4.6	15.0	2.4
316	KP-16	7	270	3.96	925	300	86	215	95	8.0	130	295	300	120	19.0	6.0	3.1	12.0	1.9
317	KP-17	5	220	3.12	680	260	72	170	71	8.0	95	212	262	75	16.0	4.5	2.4	9.5	1.6
318	KP-18	1	140	1.28	310	150	43	140	42	7.0	65	122	194	50	9.7	2.0	1.0	6.4	0.8
319	KP-19	<1	150	0.68	150	130	37	140	38	6.0	60	104	200	50	8.0	2.5	1.4	6.0	1.3
320	KP-20	<1	90	0.06	15	60	11	95	15	4.0	40	47	66	25	4.6	1.0	0.9	5.8	0.9
321	KQ-01	<1	360	0.63	310	220	40	115	27	6.0	65	69	116	35	5.7	1.5	0.9	4.9	0.8
322	KQ-02	1	280	1.41	1065	300	65	115	36	9.0	85	105	192	60	9.1	1.5	1.7	8.0	1.2
323	KQ-03	1	350	1.81	1060	260	72	170	52	12.0	110	158	270	95	15.0	3.0	2.2	9.4	1.6
324	KQ-04	<1	120	0.37	25	130	22	130	44	9.0	90	77	146	45	9.1	1.0	1.4	8.6	1.0
325	KQ-05	10	560	2.81	1675	380	95	260	125	10.0	165	247	290	120	22.0	5.5	3.6	13.0	1.8
326	KQ-06	12	880	2.91	2210	630	115	255	148	9.0	155	232	266	110	23.0	6.5	3.9	11.0	1.7
327	KQ-07	15	1060	3.45	1780	510	128	230	148	9.0	160	215	260	115	23.0	7.0	4.2	13.0	1.8
328	KQ-08	10	1080	2.92	2100	680	274	280	170	10.0	140	230	340	95	16.0	5.0	2.9	11.0	1.7
329	KQ-09	11	1810	3.80	2060	690	166	170	121	7.0	105	209	316	95	18.0	5.0	3.1	9.2	1.3
330	KQ-10	5	1120	2.29	1685	540	144	255	97	9.0	115	314	326	130	20.0	5.5	3.2	9.3	1.2
331	KQ-11	13	810	3.81	1790	660	182	335	161	11.0	165	521	380	205	27.0	8.0	4.2	12.0	1.9
332	KQ-12	17	790	4.45	1345	550	141	375	211	12.0	185	519	388	200	32.0	9.0	4.6	14.0	2.1
333	KQ-13	16	440	3.70	2750	340	64	315	178	11.0	200	462	366	215	36.0	11.0	5.6	17.0	2.3
334	KQ-14	19	430	4.01	2400	340	72	350	179	12.0	210	486	400	220	36.0	9.5	5.4	17.0	2.5
335	KQ-15	14	280	3.52	1240	300	67	305	128	9.0	175	381	334	145	23.0	6.5	4.0	12.0	1.9
336	KQ-16	5	430	2.40	1225	300	91	245	85	8.0	125	233	288	95	16.0	4.5	2.4	9.7	1.6
337	KQ-17	1	220	0.57	150	120	27	185	49	7.0	80	128	178	50	7.4	1.5	1.2	6.6	0.9
338	KQ-18	<1	110	0.60	295	100	25	115	29	6.0	55	74	120	30	5.1	1.0	0.9	5.4	0.7
339	KQ-19	<1	40	0.48	90	90	13	85	26	6.0	40	58	100	20	3.7	0.5	0.7	4.8	0.6
340	KQ-20	<1	120	0.11	5	50	12	85	18	7.0	45	59	80	25	5.4	0.5	0.9	4.2	0.7
341	KR-01	<1	120	0.31	120	140	35	95	27	11.0	60	68	124	35	7.0	1.0	1.3	7.2	0.9
342	KR-02	4	380	2.49	890	320	98	150	46	11.0	100	133	242	75	13.0	2.5	2.0	8.9	1.0

RESULTS OF GEOCHEMICAL ANALYSIS

Kiruku Hill

Ser. No.	Sample No.	Au ppb	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
343	KR-03	5	560	2.83	1325	310	112	160	58	8.0	120	172	242	85	13.0	3.5	2.5	9.5	1.5
344	KR-04	7	450	2.73	850	390	114	200	84	8.0	125	180	240	100	15.0	4.0	2.5	11.0	1.4
345	KR-05	12	1020	3.45	1625	510	183	260	107	9.0	140	211	258	115	22.0	5.0	3.2	10.0	1.4
346	KR-06	15	1600	5.43	2440	800	226	260	139	5.0	175	260	302	130	26.0	7.5	4.2	12.0	1.8
347	KR-07	18	1770	5.17	3090	690	202	330	190	5.0	175	350	420	160	30.0	9.5	4.8	13.0	1.7
348	KR-08	10	2430	3.89	960	1060	304	220	131	4.0	170	211	404	115	25.0	8.0	4.1	11.0	1.6
349	KR-09	8	3290	3.96	3070	820	213	345	86	4.0	140	433	526	205	31.0	8.5	3.5	9.0	1.5
350	KR-10	14	1530	2.91	1900	590	168	470	73	8.0	125	455	406	190	28.0	7.0	3.3	9.3	1.6
351	KR-11	9	640	3.32	1435	470	96	360	110	7.0	150	490	324	170	23.0	6.0	3.4	9.8	1.5
352	KR-12	12	530	3.13	1790	440	82	350	119	8.0	170	437	338	185	25.0	7.5	4.1	13.0	2.0
353	KR-13	11	390	2.83	1115	290	61	320	118	7.0	160	402	276	175	24.0	7.0	3.7	12.0	1.7
354	KR-14	12	360	2.50	1330	320	77	335	116	8.0	175	398	304	160	25.0	7.5	4.2	12.0	1.9
355	KR-15	6	470	1.77	1335	370	77	260	132	9.0	135	483	306	190	33.0	7.5	4.7	14.0	2.3
356	KR-16	1	120	0.69	305	120	24	185	84	7.0	90	266	254	130	17.0	5.0	3.2	10.0	1.5
357	KR-17	<1	80	0.06	5	30	11	80	20	5.0	40	45	66	20	4.2	0.5	0.6	4.4	0.6
358	KR-18	<1	130	0.45	365	80	14	110	24	6.0	55	65	124	30	5.2	0.5	0.8	5.4	0.7
359	KR-19	<1	30	0.32	85	70	10	80	23	8.0	40	50	88	25	4.4	0.5	1.0	7.3	1.2
360	KR-20	<1	190	0.43	90	150	38	85	24	6.0	45	66	122	35	6.0	0.5	0.9	4.8	0.8
361	KS-01	<1	80	0.52	120	120	20	75	22	5.0	60	60	102	35	6.7	1.5	1.0	4.2	0.7
362	KS-02	2	360	1.82	1250	290	69	160	41	7.0	125	121	176	65	13.0	3.5	2.1	7.0	1.5
363	KS-03	5	650	3.62	1050	510	176	240	61	7.0	140	166	222	80	16.0	5.0	2.5	8.4	1.6
364	KS-04	5	410	1.95	1245	310	87	260	69	6.0	160	127	166	75	14.0	4.5	2.3	8.4	1.6
365	KS-05	12	1410	5.28	1805	530	117	280	108	4.0	140	247	238	120	24.0	7.5	3.2	7.1	1.2
366	KS-06	21	2660	5.08	3750	1080	244	450	199	5.0	210	427	470	215	45.0	16.0	5.3	11.0	1.9
367	KS-07	10	3190	3.83	3910	970	231	310	154	3.0	140	292	474	165	37.0	11.0	4.1	8.4	1.4
368	KS-08	10	2740	4.10	3070	1080	298	475	149	6.0	170	422	552	210	42.0	13.0	5.0	11.0	1.9
369	KS-09	8	3090	4.79	2420	1360	374	590	122	7.0	195	977	904	375	61.0	18.0	6.0	10.0	1.9
370	KS-10	6	1730	4.58	1870	1140	345	500	80	7.0	140	845	504	270	39.0	11.0	4.0	8.4	1.5
371	KS-11	7	1940	4.16	2550	920	227	445	111	6.0	160	536	408	230	41.0	13.0	4.2	8.4	1.5
372	KS-12	9	1210	3.96	2370	610	175	290	112	6.0	160	288	278	140	27.0	7.5	3.7	9.2	1.7
373	KS-13	9	1280	3.44	1690	670	212	275	96	8.0	150	289	294	135	24.0	7.0	3.1	8.4	1.7
374	KS-14	5	510	1.80	1150	320	72	165	51	6.0	90	142	182	75	16.0	4.5	2.1	6.4	1.1
375	KS-15	6	350	1.04	835	260	68	225	65	7.0	105	195	256	90	17.0	5.0	2.4	6.4	1.2
376	KS-16	<1	100	0.19	55	80	19	120	28	4.0	80	59	94	30	5.5	1.0	1.0	3.9	0.7
377	KS-17	<1	120	0.29	150	140	19	115	25	4.0	55	60	94	30	5.6	1.0	0.9	3.4	0.6
378	KS-18	<1	30	0.48	130	90	14	100	19	4.0	45	45	74	15	3.5	0.5	0.7	4.1	0.8
379	KS-19	<1	40	0.45	175	110	15	100	20	4.0	45	51	90	20	4.0	1.0	0.9	3.5	0.8
380	KS-20	<1	40	0.25	140	100	16	75	19	4.0	45	51	88	30	4.5	0.5	0.6	2.8	0.6
381	KT-01	<1	190	0.81	390	210	44	85	35	10.0	75	83	154	55	9.9	2.5	1.3	6.3	1.1
382	KT-02	<1	290	1.57	695	270	60	120	42	10.0	95	90	180	60	12.0	3.0	1.7	7.2	1.4
383	KT-03	5	460	3.36	615	420	113	150	82	10.0	135	152	236	85	16.0	4.5	2.6	9.2	1.6
384	KT-04	6	1110	3.21	1340	550	128	270	97	7.0	135	243	216	115	23.0	7.0	3.6	9.2	1.7
385	KT-05	13	2310	4.46	1855	630	131	490	178	8.0	185	498	332	210	45.0	13.0	5.7	10.0	2.1
386	KT-06	17	3130	6.76	2450	980	229	585	232	8.0	220	1000	576	365	63.0	18.0	6.5	12.0	1.8
387	KT-07	16	4260	6.10	2750	1590	442	710	295	10.0	220	1520	1250	500	75.0	23.0	7.5	13.0	2.3
388	KT-08	18	2230	6.55	2610	1030	274	640	259	7.0	230	1130	646	395	64.0	20.0	6.9	12.0	2.1
389	KT-09	16	1460	5.94	1945	800	196	575	217	7.0	195	903	454	335	61.0	19.0	6.7	13.0	2.3
390	KT-10	11	1830	3.66	2480	790	226	575	169	8.0	210	727	442	300	53.0	17.0	5.8	11.0	1.9
391	KT-11	14	700	3.38	1425	480	122	235	128	6.0	145	256	252	135	26.0	9.0	4.3	8.4	1.7
392	KT-12	5	380	1.41	355	270	92	285	96	8.0	145	142	228	75	16.0	4.0	2.4	9.2	1.7
393	KT-13	5	1040	1.43	105	340	141	195	76	9.0	105	146	240	80	15.0	3.5	1.8	7.3	1.4
394	KT-14	1	180	0.47	280	150	37	105	35	7.0	60	77	148	45	9.8	2.5	1.4	5.1	1.0
395	KT-15	1	110	0.81	235	170	33	115	34	4.0	55	83	152	35	7.0	1.5	1.2	3.8	0.8
396	KT-16	<1	80	0.48	245	110	18	120	41	6.0	50	84	164	40	7.7	1.5	0.9	4.8	1.0
397	KT-17	<1	210	0.11	35	110	21	115	25	6.0	50	61	90	30	6.4	0.5	0.8	3.5	0.6
398	KT-18	<1	80	0.56	325	110	19	120	35	7.0	55	76	140	35	7.2	1.0	1.0	5.8	1.0
399	KT-19	<1	90	0.61	365	110	28	105	32	6.0	50	70	124	30	6.1	1.5	1.0	4.6	1.0
400	KT-20	<1	20	0.23	65	80	9	85	23	6.0	50	55	88	25	5.6	1.0	0.8	5.0	0.9

RESULTS OF GEOCHEMICAL ANALYSIS

Nguluku Hill

Ser. No.	Sample No.	Au ppb	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
1	NA-01	<1	120	1.35	750	210	25	35	29	4.0	40	245	368	130	20.0	6.0	2.7	6.7	1.0
2	NA-02	<1	180	2.12	450	200	42	30	28	4.0	40	135	240	80	16.0	3.5	2.0	4.8	0.9
3	NA-03	<1	180	3.23	1180	190	37	45	24	3.0	45	86	174	55	12.0	2.0	1.3	4.0	0.6
4	NA-04	<1	200	3.05	945	110	38	40	19	3.0	50	123	216	70	14.0	3.5	1.9	5.2	0.8
5	NA-05	<1	140	2.11	520	210	34	35	482	310.0	45	741	1270	365	67.0	10.0	11.0	41.0	5.3
6	NA-06	<1	140	2.56	640	240	19	35	35	13.0	40	96	198	60	9.7	2.0	1.5	4.6	0.9
7	NA-07	<1	60	0.87	185	110	9	30	27	8.0	45	75	162	50	9.2	1.0	1.1	4.2	0.8
8	NA-08	<1	60	0.53	475	110	30	35	32	6.0	50	91	194	55	9.9	1.0	1.6	4.4	0.8
9	NA-09	3	60	0.99	140	220	21	45	35	7.0	55	78	172	50	10.0	1.0	1.2	5.3	0.9
10	NA-10	<1	80	1.14	255	350	28	35	33	7.0	50	83	176	55	11.0	1.5	1.4	6.8	1.0
11	NA-11	<1	90	1.31	300	470	33	35	30	7.0	50	74	162	45	8.9	1.0	1.3	5.4	1.1
12	NA-12	<1	80	0.93	305	220	22	30	26	7.0	40	58	132	40	9.6	0.5	1.3	6.9	1.0
13	NA-13	<1	110	1.61	450	390	33	40	37	7.0	60	187	204	60	15.0	1.5	1.8	6.5	1.3
14	NA-14	2	80	1.45	215	180	23	45	35	7.0	60	88	186	55	12.0	1.5	1.4	6.1	1.1
15	NB-01	<1	130	0.71	485	240	33	40	28	5.0	40	192	322	110	19.0	4.5	2.0	4.6	0.7
16	NB-02	<1	70	0.47	325	100	14	40	22	6.0	40	126	232	65	12.0	2.0	1.5	6.0	1.0
17	NB-03	<1	90	1.15	205	130	15	20	22	7.0	40	81	164	50	9.4	1.5	1.0	3.4	0.7
18	NB-04	<1	140	1.98	230	280	34	35	20	5.0	45	76	150	50	11.0	2.5	1.6	4.9	0.8
19	NB-05	<1	70	0.92	535	270	19	25	23	4.0	40	71	160	50	9.4	1.5	1.2	4.6	0.6
20	NB-06	<1	110	1.20	640	210	25	30	24	6.0	45	77	172	50	9.7	2.0	1.4	4.8	1.1
21	NB-07	<1	120	1.86	145	240	21	20	19	4.0	45	64	162	50	11.0	2.5	1.3	4.0	0.7
22	NB-08	<1	50	0.71	320	170	13	20	29	6.0	45	70	142	50	10.0	1.0	1.2	5.2	1.1
23	NB-09	<1	40	0.47	20	90	8	25	36	6.0	55	77	168	55	9.2	1.0	1.4	6.8	1.1
24	NB-10	<1	50	0.55	20	130	8	15	24	6.0	35	64	134	40	7.9	0.5	1.2	5.0	0.9
25	NB-11	<1	90	0.43	245	290	25	20	25	7.0	45	65	136	40	8.2	1.0	1.3	6.9	1.1
26	NB-12	<1	180	1.71	715	560	48	25	32	6.0	60	82	186	60	9.9	2.0	1.3	5.0	1.1
27	NB-13	<1	140	1.76	505	780	51	25	32	7.0	50	85	184	55	11.0	1.5	1.3	5.7	1.1
28	NB-14	<1	90	0.39	45	160	20	20	25	5.0	35	62	136	40	7.3	1.0	1.1	2.9	0.9
29	NC-01	<1	100	0.47	165	120	30	25	15	4.0	35	47	104	30	6.3	1.0	0.8	4.2	0.8
30	NC-02	<1	40	0.41	30	60	8	20	15	5.0	35	48	96	30	6.1	1.0	1.0	4.8	0.8
31	NC-03	<1	60	0.70	180	100	9	15	17	4.0	30	55	100	30	7.2	1.0	1.0	4.2	0.7
32	NC-04	2	160	2.18	460	260	52	55	23	5.0	50	86	178	60	11.0	3.0	1.6	4.4	0.7
33	NC-05	<1	130	1.45	535	280	26	50	19	5.0	45	71	162	55	11.0	2.5	1.5	5.6	0.8
34	NC-06	<1	160	3.21	360	520	45	70	28	7.0	55	118	236	85	15.0	4.5	1.9	5.7	0.9
35	NC-07	<1	70	0.76	15	140	15	40	20	5.0	45	54	108	35	6.0	1.0	1.0	4.4	0.6
36	NC-08	<1	100	1.66	40	140	18	30	24	6.0	45	66	142	45	8.5	1.0	1.1	4.1	0.6
37	NC-09	<1	30	0.58	45	110	8	25	32	6.0	45	75	166	50	9.7	1.0	1.1	4.3	0.5
38	NC-10	<1	80	0.62	395	170	18	20	30	6.0	40	74	156	50	8.8	1.0	1.2	5.4	0.9
39	NC-11	<1	80	1.07	170	370	19	30	27	6.0	50	77	162	50	9.4	1.0	1.2	5.0	0.7
40	NC-12	<1	120	1.48	445	470	37	30	22	6.0	45	59	136	40	7.4	1.0	1.0	4.0	0.7
41	NC-13	<1	190	2.25	330	710	72	35	20	5.0	55	58	132	40	7.4	1.5	1.0	5.0	0.6
42	NC-14	<1	140	0.90	260	350	26	35	27	7.0	50	77	164	45	8.8	1.0	1.3	6.0	1.0
43	ND-01	<1	70	0.55	180	200	21	30	14	4.0	35	49	104	30	5.9	1.0	0.8	3.5	0.6
44	ND-02	<1	70	0.44	70	140	10	25	9	4.0	40	35	76	20	4.0	0.5	0.6	3.5	0.5
45	ND-03	<1	170	1.44	365	220	19	25	16	5.0	40	51	112	35	7.0	1.0	1.4	5.5	0.7
46	ND-04	<1	170	1.73	290	280	55	65	21	5.0	50	83	162	55	11.0	2.0	1.4	4.7	0.7
47	ND-05	<1	190	3.54	685	530	69	80	22	6.0	55	109	190	75	14.0	4.0	1.9	5.9	0.8
48	ND-06	<1	540	6.01	1030	1250	163	130	24	6.0	70	148	290	115	19.0	5.5	2.2	5.7	0.8
49	ND-07	<1	270	3.51	650	570	81	80	27	7.0	60	152	220	75	13.0	3.5	1.6	5.9	1.0
50	ND-08	<1	130	1.53	415	330	36	50	27	7.0	50	84	164	50	8.1	1.5	1.2	5.0	0.7
51	ND-09	<1	150	1.36	505	610	45	55	29	9.0	55	67	154	50	8.5	2.0	1.4	6.0	0.9
52	ND-10	<1	40	0.27	5	80	11	20	14	4.0	30	40	86	30	5.3	0.5	0.7	3.6	0.3
53	ND-11	<1	130	1.39	770	230	26	40	42	8.0	55	104	226	75	14.0	1.5	1.5	5.5	0.7
54	ND-12	<1	90	1.93	570	330	24	35	29	7.0	55	72	160	50	9.0	1.5	1.3	5.6	0.8
55	ND-13	<1	130	2.03	540	370	49	35	30	10.0	55	72	166	50	9.7	1.5	1.4	6.4	0.8
56	ND-14	<1	100	2.96	385	330	28	40	33	7.0	50	93	174	50	10.0	1.5	1.3	5.3	0.9
57	NE-01	<1	110	0.89	270	170	20	25	18	6.0	40	47	108	35	6.6	1.5	1.0	5.5	0.7

RESULTS OF GEOCHEMICAL ANALYSIS

Nguluku Hill

Ser. No.	Sample No.	Au ppb	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
58	NE-02	<1	110	1.02	400	150	15	30	19	6.0	45	54	126	35	6.6	1.0	1.0	4.8	0.6
59	NE-03	<1	140	1.81	145	210	14	20	16	5.0	40	43	96	30	5.1	1.0	1.1	4.6	0.8
60	NE-04	<1	200	2.55	665	510	101	85	25	8.0	60	112	220	75	16.0	4.0	2.0	8.7	0.9
61	NE-05	<1	410	5.75	825	1000	202	110	26	7.0	70	150	288	110	19.0	6.0	2.6	6.4	1.0
62	NE-06	<1	1070	8.67	1755	3260	568	230	40	10.0	105	266	552	205	35.0	10.0	3.7	8.0	1.1
63	NE-07	<1	900	7.07	1270	1940	377	170	33	9.0	90	215	448	160	30.0	9.0	3.5	7.4	1.1
64	NE-08	<1	170	3.72	530	520	64	75	40	8.0	55	113	256	85	15.0	3.5	2.0	7.0	1.0
65	NE-09	<1	170	2.14	685	530	50	65	34	8.0	70	89	210	65	13.0	2.0	1.3	5.8	0.8
66	NE-10	<1	60	0.28	150	140	13	50	26	7.0	45	64	138	45	7.2	0.5	1.2	5.4	0.8
67	NE-11	<1	110	0.65	480	270	23	40	24	7.0	45	59	110	40	6.7	1.0	1.0	4.8	0.9
68	NE-12	<1	120	1.79	810	290	29	45	38	9.0	65	82	180	55	12.0	1.5	1.6	5.9	1.2
69	NE-13	<1	160	3.11	495	370	43	45	38	10.0	50	94	194	60	11.0	2.0	1.6	7.4	1.0
70	NE-14	<1	290	2.82	775	380	55	50	38	8.0	60	116	204	70	13.0	3.5	2.0	7.3	1.1
71	NE-15	<1	180	3.46	525	350	41	40	36	6.0	45	83	188	55	11.0	1.5	1.3	3.8	1.0
72	NF-01	<1	220	1.41	745	460	51	30	26	6.0	40	64	152	45	8.6	1.5	1.2	5.4	0.8
73	NF-02	<1	120	0.94	490	250	23	30	22	7.0	45	61	142	45	8.1	1.5	1.0	7.1	0.9
74	NF-03	<1	120	1.22	555	330	21	30	21	5.0	45	57	136	40	6.7	2.0	1.0	3.8	0.7
75	NF-04	<1	210	3.26	675	710	115	90	23	6.0	60	182	242	95	16.0	4.0	2.2	5.2	0.7
76	NF-05	<1	490	5.93	1045	1700	265	155	28	7.0	75	219	352	135	21.0	6.5	2.6	5.6	0.9
77	NF-06	<1	900	8.08	1750	3210	573	200	32	8.0	90	231	486	180	31.0	8.5	3.6	6.6	1.1
78	NF-07	<1	880	7.80	1945	3340	635	200	33	8.0	90	241	504	185	32.0	8.5	3.3	7.7	1.1
79	NF-08	<1	930	6.02	1195	1670	313	190	39	9.0	85	223	454	170	28.0	7.5	3.1	6.5	1.1
80	NF-09	<1	190	3.25	590	540	73	95	33	8.0	55	121	266	95	17.0	3.5	1.8	5.0	0.6
81	NF-10	<1	260	1.41	775	340	54	60	33	8.0	55	105	196	65	12.0	2.0	1.8	6.6	0.9
82	NF-11	<1	100	1.38	760	270	23	40	27	7.0	55	70	148	55	10.0	1.5	1.5	6.3	1.1
83	NF-12	<1	170	2.20	890	370	42	45	32	7.0	55	87	184	65	11.0	2.0	1.7	5.9	0.9
84	NF-13	<1	270	2.87	765	430	46	50	26	4.0	50	89	188	65	11.0	2.0	1.4	4.6	0.8
85	NF-14	<1	140	2.35	725	340	30	40	31	6.0	45	81	180	55	11.0	2.0	1.4	5.6	0.7
86	NF-15	<1	170	2.08	590	310	36	45	30	7.0	55	86	196	65	12.0	1.5	1.6	6.9	0.9
87	NG-01	<1	140	2.15	265	350	31	30	21	5.0	40	64	150	45	9.0	1.5	1.1	4.6	0.5
88	NG-02	<1	130	1.77	380	300	15	25	19	6.0	40	66	150	45	8.3	1.5	1.2	5.5	0.8
89	NG-03	<1	130	1.64	275	200	19	30	20	5.0	40	59	130	45	8.1	1.5	1.1	4.6	0.6
90	NG-04	<1	220	2.86	640	670	123	95	26	6.0	55	128	240	95	18.0	4.5	2.1	4.9	0.7
91	NG-05	<1	520	6.94	1040	1980	338	145	32	9.0	70	193	394	145	26.0	6.5	2.9	6.3	0.9
92	NG-06	<1	1050	8.75	2130	4890	669	180	29	7.0	75	219	460	175	30.0	8.5	3.1	6.6	1.0
93	NG-07	<1	780	7.39	1455	5170	537	160	26	6.0	70	199	408	155	26.0	8.0	2.8	6.4	0.7
94	NG-08	<1	1110	8.34	1375	5370	854	200	37	8.0	95	284	600	230	39.0	11.0	4.0	6.8	0.9
95	NG-09	<1	740	6.67	1085	1650	389	130	38	11.0	65	203	418	155	26.0	6.5	3.0	6.3	0.8
96	NG-10	<1	230	3.67	715	530	74	65	32	9.0	60	98	210	75	14.0	3.0	1.8	6.8	1.0
97	NG-11	<1	90	1.16	425	190	26	45	30	8.0	50	71	138	50	9.5	1.5	1.2	7.0	1.0
98	NG-12	<1	200	2.36	760	310	41	55	33	8.0	55	88	156	65	13.0	2.0	1.7	6.8	1.0
99	NG-13	<1	150	2.63	550	300	38	50	31	7.0	50	77	152	50	10.0	1.5	1.4	5.6	0.8
100	NG-14	<1	170	2.53	680	210	39	45	32	8.0	45	85	170	60	11.0	2.0	1.7	7.6	1.1
101	NG-15	<1	230	2.52	830	300	43	35	29	5.0	40	78	188	55	12.0	2.0	1.3	5.5	0.7
102	NH-01	<1	110	1.14	210	310	17	30	28	7.0	40	71	158	50	10.0	1.0	1.4	6.5	0.9
103	NH-02	<1	120	1.35	590	280	14	30	27	6.0	40	69	150	50	10.0	1.5	1.4	6.6	0.8
104	NH-03	<1	130	1.37	485	360	17	25	26	6.0	35	60	134	50	9.1	1.5	1.4	5.0	0.7
105	NH-04	<1	190	1.55	335	630	101	130	33	9.0	65	125	254	100	19.0	4.5	2.3	7.0	1.0
106	NH-05	<1	520	7.15	720	1870	373	135	34	7.0	65	199	398	155	27.0	7.5	2.9	7.0	1.0
107	NH-06	<1	1100	9.20	1915	5120	733	190	35	8.0	75	258	514	195	34.0	10.0	3.5	7.7	1.1
108	NH-07	<1	940	7.59	1350	7310	671	180	32	7.0	75	269	540	210	37.0	11.0	3.6	7.1	1.0
109	NH-08	<1	870	8.18	815	4900	591	200	38	8.0	80	313	646	255	42.0	12.0	4.6	7.6	0.9
110	NH-09	<1	960	7.85	1220	3200	599	200	35	9.0	80	256	528	200	36.0	9.5	3.6	6.7	0.9
111	NH-10	<1	280	3.11	610	850	83	65	40	9.0	45	114	242	80	13.0	3.0	1.8	7.1	1.0
112	NH-11	<1	130	1.67	665	290	31	55	33	8.0	45	86	182	70	11.0	2.0	1.7	7.0	1.3
113	NH-12	<1	90	1.14	490	190	17	50	29	8.0	50	71	144	55	10.0	1.5	1.4	7.2	1.1
114	NH-13	<1	100	1.27	610	230	21	45	29	7.0	50	78	156	50	9.6	1.0	1.4	6.4	0.9

RESULTS OF GEOCHEMICAL ANALYSIS

Nguluku Hill

Ser. No.	Sample No.	Au ppb	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
115	NH-14	<1	190	1.58	620	310	27	45	35	9.0	55	79	172	60	11.0	1.5	1.5	6.6	0.7
116	NH-15	<1	150	1.71	470	300	33	45	25	6.0	50	60	138	45	8.8	1.0	0.9	4.5	0.9
117	NI-01	<1	150	0.77	300	240	22	40	17	6.0	45	54	112	40	6.2	1.0	1.0	4.4	0.8
118	NI-02	<1	70	0.64	245	230	26	40	21	6.0	50	54	114	45	6.9	1.0	1.2	4.0	0.8
119	NI-03	<1	140	0.75	545	200	15	35	26	6.0	55	72	160	65	13.0	2.0	1.4	6.2	0.9
120	NI-04	<1	40	0.47	75	120	12	65	24	6.0	50	58	110	40	8.0	1.0	1.0	4.0	0.8
121	NI-05	<1	400	5.77	725	1300	232	160	39	9.0	85	168	328	135	22.0	5.5	2.6	6.9	1.1
122	NI-06	<1	900	8.14	1595	3610	569	200	43	11.0	90	225	452	190	32.0	9.5	3.6	6.7	0.8
123	NI-07	<1	800	8.15	1170	5240	603	200	39	9.0	85	247	472	200	33.0	10.0	4.0	6.1	1.2
124	NI-08	<1	930	8.39	1070	5700	737	235	38	10.0	95	268	532	235	40.0	11.0	4.3	6.9	0.9
125	NI-09	<1	990	9.10	1755	3800	673	225	40	10.0	100	255	510	215	36.0	10.0	4.2	9.1	1.3
126	NI-10	<1	360	3.25	915	930	96	100	48	10.0	60	126	264	105	18.0	4.0	2.7	9.1	1.5
127	NI-11	<1	140	1.89	580	420	35	70	52	11.0	60	99	204	75	11.0	2.0	2.1	7.6	1.4
128	NI-12	<1	90	1.54	345	260	24	60	37	10.0	55	100	150	55	10.0	1.0	1.4	8.2	1.1
129	NI-13	<1	120	1.87	550	250	29	50	34	8.0	50	71	148	55	9.7	1.5	1.2	5.1	1.2
130	NI-14	<1	190	2.68	400	290	44	45	35	7.0	45	70	150	45	9.9	2.0	1.2	4.5	0.9
131	NJ-01	<1	200	2.39	660	280	40	60	33	11.0	50	78	150	55	11.0	1.5	1.2	7.0	1.1
132	NJ-02	<1	150	2.17	605	420	28	40	24	7.0	45	55	112	45	8.4	2.0	1.4	3.9	1.0
133	NJ-03	<1	70	1.03	175	320	11	40	27	7.0	50	55	116	50	8.1	1.0	1.4	6.5	0.9
134	NJ-04	<1	160	1.27	865	220	34	40	41	9.0	45	79	180	70	12.0	2.0	1.9	5.5	1.2
135	NJ-05	<1	120	0.43	30	230	50	145	34	12.0	55	82	158	55	9.8	2.0	1.7	5.7	1.0
136	NJ-06	<1	510	6.28	800	1370	272	180	35	10.0	80	174	354	130	23.0	6.5	2.4	5.8	1.0
137	NJ-07	<1	980	9.04	1630	3710	605	240	37	10.0	90	250	510	200	32.0	10.0	3.5	7.9	0.9
138	NJ-08	<1	750	9.08	1550	3700	606	220	38	8.0	90	253	534	195	30.0	9.5	3.5	7.6	1.0
139	NJ-09	3	550	7.24	1660	1860	346	205	34	8.0	90	233	464	180	28.0	9.5	3.0	6.1	0.9
140	NJ-10	<1	340	2.52	930	760	103	105	27	7.0	65	105	210	85	13.0	3.5	1.9	6.0	1.0
141	NJ-11	<1	150	2.47	585	260	43	70	31	8.0	55	90	176	55	9.5	2.0	1.6	6.6	0.9
142	NJ-12	<1	160	2.31	480	290	42	60	29	7.0	50	123	154	55	9.3	1.5	1.2	6.2	0.8
143	NJ-13	<1	150	1.72	600	210	29	50	31	8.0	55	103	184	60	9.6	2.0	1.4	4.9	1.1
144	NJ-14	<1	90	1.43	525	200	16	50	32	8.0	55	77	166	50	9.1	1.5	1.5	6.8	0.7
145	NK-01	<1	230	4.60	820	440	46	70	23	5.0	50	79	166	60	9.2	3.5	1.2	4.8	0.6
146	NK-02	<1	80	1.05	365	270	28	40	20	5.0	45	49	104	40	6.2	1.0	1.1	4.2	0.6
147	NK-03	<1	140	1.98	400	260	22	40	23	7.0	45	63	142	45	8.9	1.5	1.1	4.5	0.8
148	NK-04	<1	140	1.25	1250	510	38	40	23	6.0	40	54	124	40	7.0	1.0	1.1	4.1	0.9
149	NK-05	<1	70	0.41	15	120	15	40	28	6.0	40	71	150	50	8.8	1.0	1.3	4.1	0.6
150	NK-06	<1	80	0.44	80	210	25	80	24	6.0	40	59	124	45	7.6	1.0	1.1	5.2	0.8
151	NK-07	<1	420	2.49	845	1100	154	145	37	8.0	65	134	252	100	17.0	4.5	2.0	7.0	1.1
152	NK-08	<1	440	3.80	1065	1240	219	160	34	8.0	80	159	292	125	20.0	6.0	2.6	7.1	1.1
153	NK-09	<1	280	2.12	915	580	101	105	32	8.0	60	102	200	85	14.0	3.5	1.8	6.0	0.9
154	NK-10	<1	110	0.88	385	300	29	60	22	6.0	40	53	110	40	7.2	1.0	1.1	4.2	0.7
155	NK-11	<1	120	1.91	575	230	30	60	30	8.8	65	72	154	62	10.0	1.8	1.0	4.5	0.7
156	NK-12	<1	130	1.52	560	230	28	45	27	8.7	50	73	143	44	7.3	1.5	1.0	5.4	0.9
157	NK-13	<1	150	1.23	815	200	31	45	24	8.1	45	63	125	46	6.5	1.8	1.0	3.8	0.9
158	NK-14	3	80	1.01	530	200	24	50	24	7.2	55	66	138	48	8.8	1.4	0.9	5.5	0.8
159	NL-01	<1	160	3.57	380	400	39	35	23	6.3	35	61	141	53	7.8	2.2	1.1	5.6	0.6
160	NL-02	<1	120	1.98	405	280	24	35	22	6.4	45	54	120	50	7.1	1.3	0.9	3.9	0.6
161	NL-03	<1	190	1.51	345	400	34	35	18	5.1	40	52	100	42	6.8	1.8	0.9	3.6	0.8
162	NL-04	<1	160	1.06	640	200	30	40	35	7.6	50	71	169	58	12.0	1.7	0.9	5.0	0.7
163	NL-05	<1	60	0.87	155	210	16	35	32	6.2	50	69	151	57	8.1	1.2	0.8	3.9	0.6
164	NL-06	<1	40	0.27	40	100	9	30	23	6.1	35	54	105	39	7.3	0.7	0.7	3.4	0.7
165	NL-07	<1	220	1.15	880	300	44	60	36	8.3	60	84	154	64	10.0	2.0	1.5	7.0	0.9
166	NL-08	4	180	1.81	435	300	48	65	37	8.1	50	94	161	56	9.4	1.5	1.1	5.7	0.9
167	NL-09	<1	210	2.29	665	360	45	75	29	8.4	60	77	138	70	12.0	1.9	1.8	5.5	0.8
168	NL-10	1	230	2.10	870	700	45	65	27	9.0	60	86	151	59	10.0	2.1	1.4	7.4	1.5
169	NL-11	<1	120	1.26	580	290	35	60	33	9.2	60	75	147	57	8.0	1.7	1.0	6.3	0.8
170	NL-12	<1	160	1.85	530	280	35	65	33	8.7	50	83	193	52	10.0	1.7	1.0	10.0	0.9
171	NL-13	<1	150	2.45	570	270	33	60	31	11.0	45	62	154	58	11.0	2.4	1.6	4.6	0.7

RESULTS OF GEOCHEMICAL ANALYSIS

Nguluku Hill

Ser. No.	Sample No.	Au ppb	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
172	NL-14	<1	140	1.73	870	200	29	55	34	8.1	50	77	185	51	10.0	2.5	1.7	5.0	1.3
173	NM-01	<1	170	1.97	600	410	37	45	26	7.1	50	62	154	52	8.5	1.6	0.7	4.2	0.7
174	NM-02	<1	120	1.18	525	270	33	40	29	6.7	45	75	140	48	9.5	1.1	1.1	7.1	0.8
175	NM-03	<1	90	0.76	190	170	17	45	35	12.0	45	77	176	61	9.6	2.8	2.1	6.1	1.1
176	NM-04	<1	80	0.41	35	160	14	40	27	6.0	35	48	85	34	5.9	0.9	0.7	3.9	0.5
177	NM-05	<1	80	1.18	345	250	22	45	37	8.2	45	73	152	61	8.8	1.1	1.2	4.5	0.8
178	NM-06	<1	100	1.44	590	280	28	50	34	9.7	55	72	168	53	9.9	1.5	1.0	5.5	0.6
179	NM-07	<1	100	1.01	485	210	24	45	25	7.8	35	42	119	32	6.5	1.5	0.9	4.7	0.7
180	NM-08	<1	100	1.49	435	210	25	55	35	10.0	45	65	158	52	6.2	2.0	1.2	7.7	1.4
181	NM-09	<1	110	2.11	530	250	27	50	32	9.6	40	68	138	50	7.5	1.9	0.9	3.7	0.9
182	NM-10	<1	210	2.67	765	400	37	60	29	7.0	50	69	148	42	10.0	2.1	1.5	5.4	1.6
183	NM-11	<1	200	2.15	1165	370	45	60	25	7.2	55	85	169	59	10.0	1.3	1.1	5.0	1.1
184	NM-12	<1	120	1.25	580	190	28	55	35	8.3	55	87	204	58	9.4	1.3	0.9	4.7	1.0
185	NM-13	<1	250	1.73	1095	300	54	65	37	8.1	60	105	208	72	10.0	1.8	1.8	5.7	0.8
186	NM-14	<1	240	2.21	1250	430	49	60	33	9.1	55	104	226	76	12.0	1.9	1.6	7.0	0.8
187	NN-01	<1	120	1.55	565	280	25	40	26	6.8	45	73	154	54	7.9	1.7	0.9	4.9	0.6
188	NN-02	<1	110	0.81	515	340	45	40	40	9.1	50	83	208	70	11.0	1.8	1.4	5.7	1.1
189	NN-03	<1	140	1.26	520	240	30	40	27	8.8	55	80	146	55	11.0	1.1	1.1	5.2	0.8
190	NN-04	<1	110	1.11	730	220	23	45	44	9.0	55	75	174	49	7.3	1.1	1.1	6.6	1.2
191	NN-05	<1	90	1.29	375	230	19	40	30	6.7	40	72	157	49	7.6	1.3	1.2	4.3	0.8
192	NN-06	<1	100	1.70	395	230	29	40	37	6.7	40	82	195	57	9.0	2.0	1.1	6.4	1.1
193	NN-07	<1	150	1.42	345	250	31	35	21	5.4	35	67	116	44	6.7	1.9	1.3	4.5	0.9
194	NN-08	<1	110	1.34	400	210	26	45	30	8.8	45	70	142	39	7.8	1.2	1.1	3.5	1.1
195	NN-09	<1	260	2.49	655	460	75	50	29	6.0	50	64	140	45	9.6	1.5	1.2	5.5	1.0
196	NN-10	1	220	2.72	700	270	43	60	30	8.0	45	73	146	50	10.0	1.5	1.0	4.3	0.6
197	NN-11	<1	120	1.77	390	240	39	50	24	8.0	50	64	146	50	8.2	1.0	1.3	4.9	0.6
198	NN-12	<1	170	1.94	760	290	49	75	30	9.0	55	76	170	55	11.0	1.5	1.3	6.1	0.9
199	NN-13	<1	180	1.53	670	300	43	60	21	8.0	45	58	132	45	9.2	1.0	1.0	4.1	0.9
200	NN-14	<1	230	2.63	795	350	51	65	33	9.0	55	76	164	60	8.3	1.5	1.5	6.5	0.9

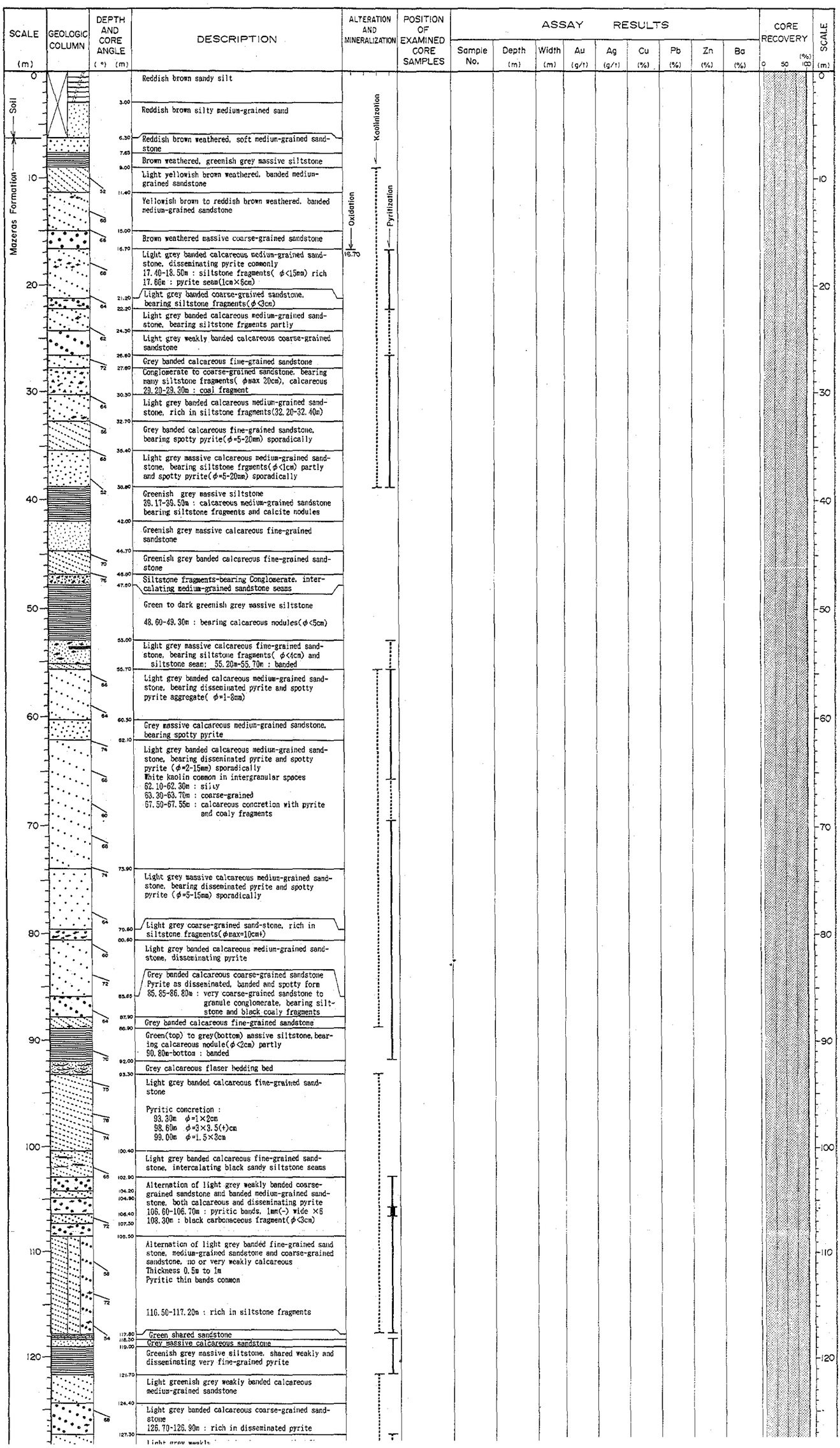
RESULTS OF GEOCHEMICAL ANALYSIS

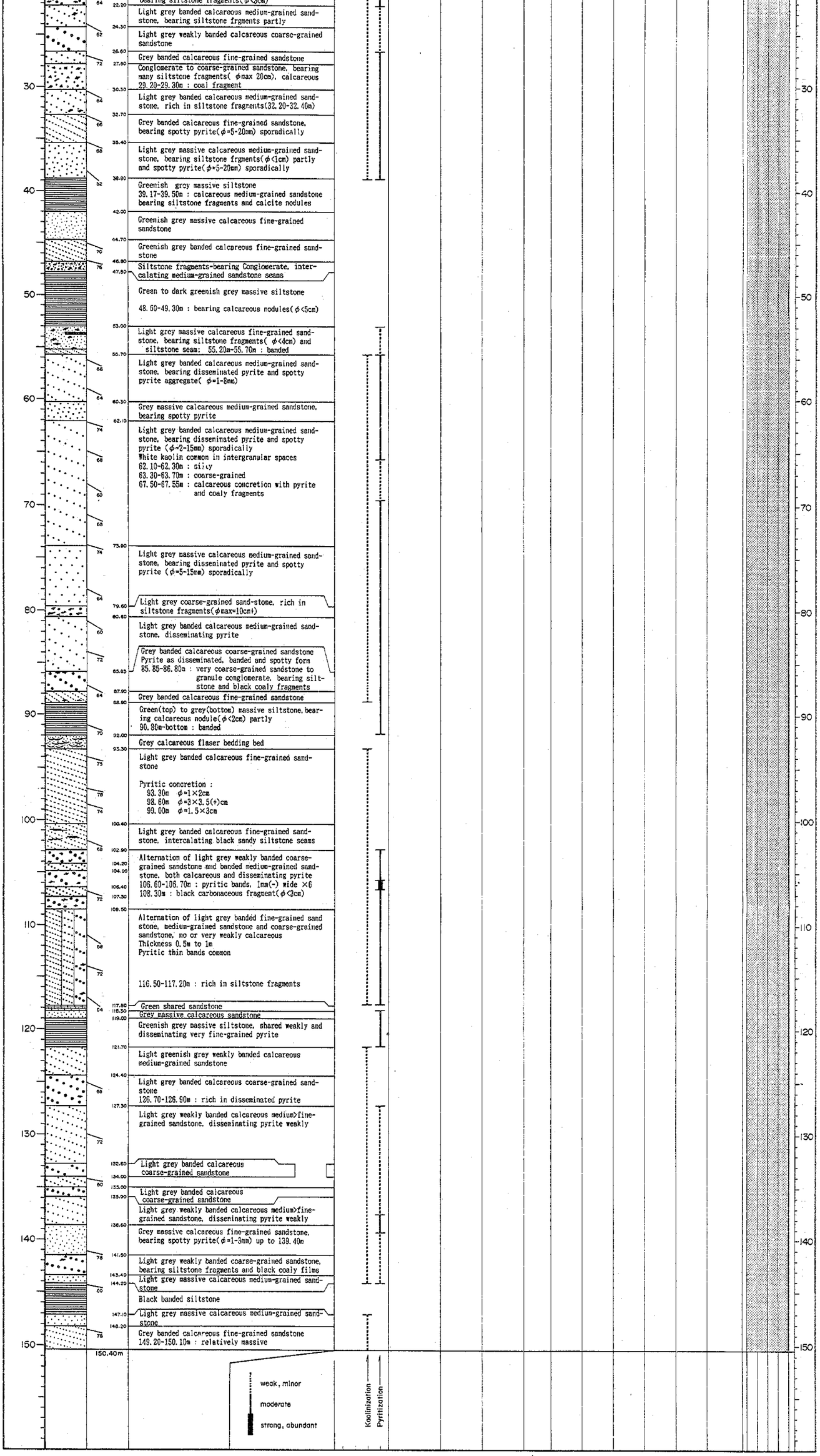
Mrima Hill

Ser. No.	Sample No.	Au ppb	Ba ppm	Fe %	Mn ppm	P ppm	Sr ppm	Nb ppm	Th ppm	U ppm	Y ppm	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
1	M-001	5	>10000	>15.00	>10000	6800	1080	1590	385	10.0	620	6170	9360	>1000	>500	>100	45	40	5.5
2	M-002	<1	8030	14.50	>10000	5070	686	1360	328	9.0	430	5860	7970	>1000	>500	>100	39	29	3.9
3	M-003	46	5060	11.15	8690	3750	781	1450	252	6.0	1020	2780	3910	>1000	478	>100	43	67	10.0
4	M-004	4	6100	15.00	>10000	6210	708	5450	726	25.0	850	7150	>10000	>1000	>500	>100	81	61	8.3
5	M-005	39	9040	15.00	>10000	6220	1290	6440	520	41.0	1140	5800	9030	>1000	>500	>100	77	91	12.0
6	M-006	7	6590	15.00	>10000	4660	1285	3560	407	29.0	1420	4050	5060	>1000	>500	>100	60	106	15.0

Appendix 9 Geological Log of Diamond Drill Hole, MJKM-1

MJKM-1 Location : Jibana Altitude : 144.5 m Direction : N70°W Angle : −50° Depth : 150.40 m

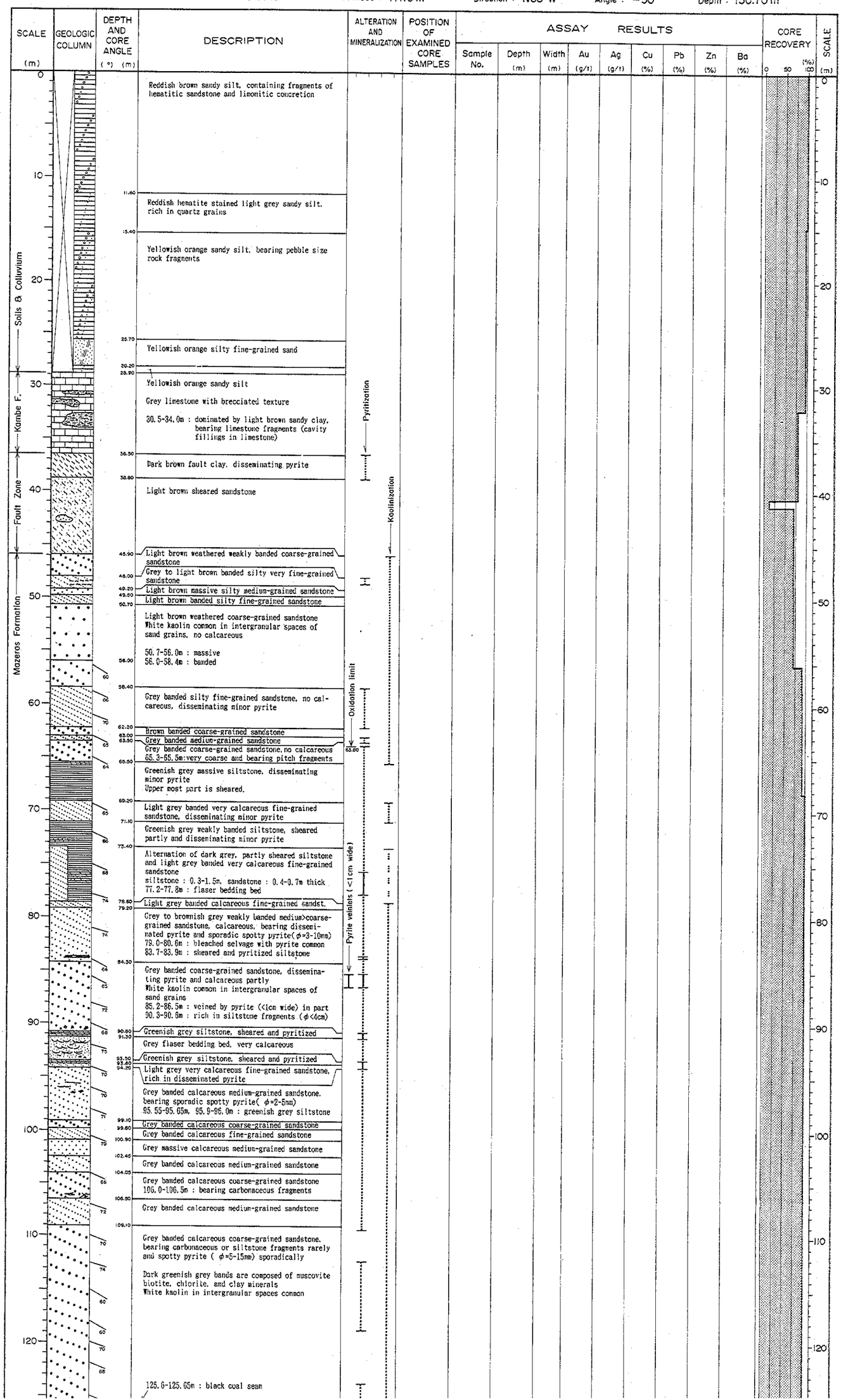


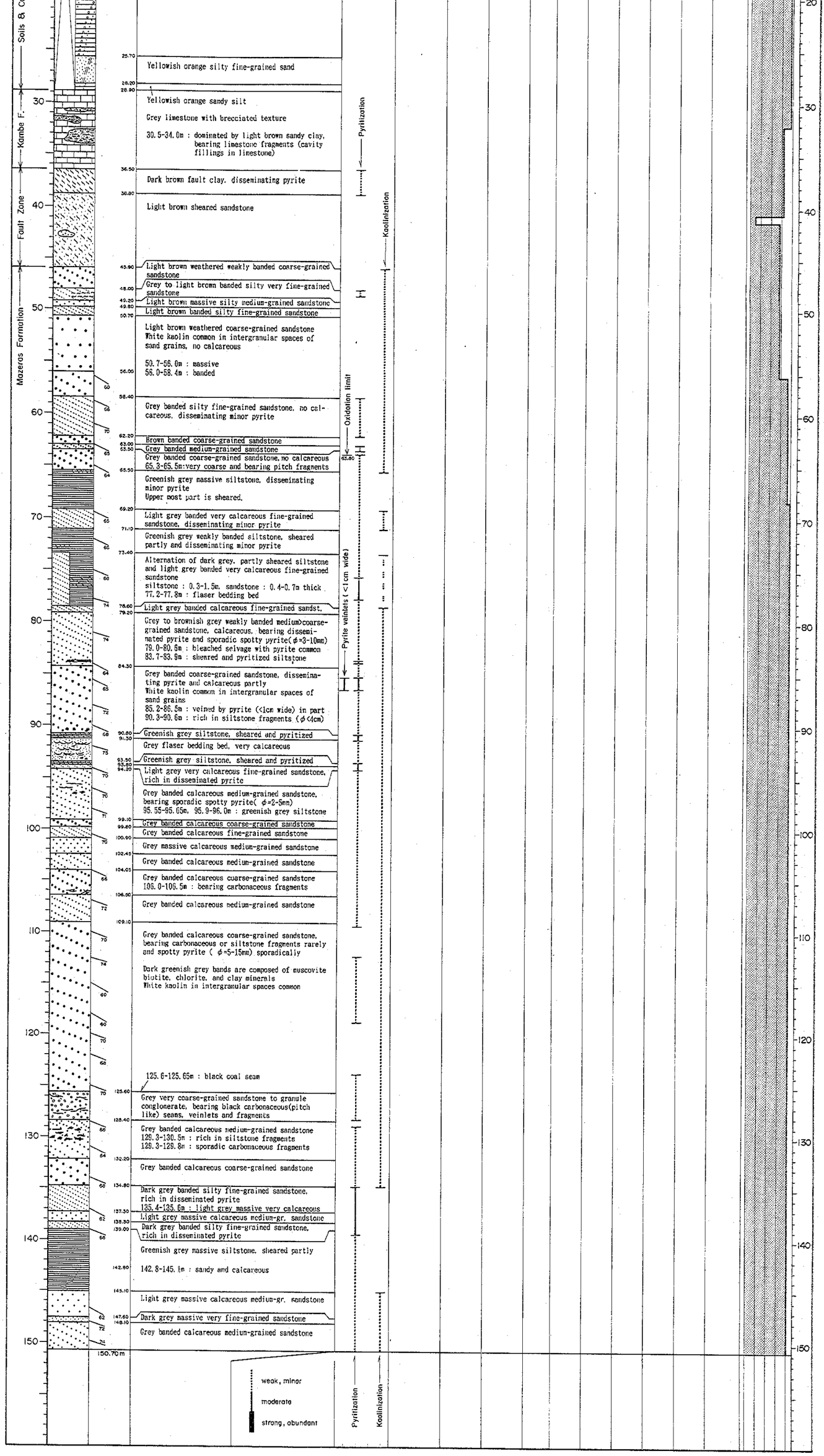

Light grey banded calcareous medium-grained sandstone, bearing siltstone frgments partly
Light grey weakly banded calcareous coarse-grained sandstone
Grey banded calcareous fine-grained sandstone
Conglomerate to coarse-grained sandstone, bearing many siltstone fragments(φmax 20cm), calcareous
29.20-29.30m : coal fragment
Light grey banded calcareous medium-grained sandstone, rich in siltstone fragments(32.20-32.40m)
Grey banded calcareous fine-grained sandstone, bearing spotty pyrite(φ=5-20mm) sporadically
Light grey massive calcareous medium-grained sandstone, bearing siltstone frgments(φ<1cm) partly and spotty pyrite(φ=5-20mm) sporadically
Greenish grey massive siltstone
39.17-39.50m : calcareous medium-grained sandstone bearing siltstone fragments and calcite nodules
Greenish grey massive calcareous fine-grained sandstone
Greenish grey banded calcareous fine-grained sandstone
Siltstone fragments-bearing Conglomerate, intercalating medium-grained sandstone seams
Green to dark greenish grey massive siltstone
48.60-49.30m : bearing calcareous nodules(φ<5cm)
Light grey massive calcareous fine-grained sandstone, bearing siltstone fragments(φ<4cm) and siltstone seam: 55.20m-55.70m : banded
Light grey banded calcareous medium-grained sandstone, bearing disseminated pyrite and spotty pyrite aggregate(φ=1-8mm)
Grey massive calcareous medium-grained sandstone, bearing spotty pyrite
Light grey banded calcareous medium-grained sandstone, bearing disseminated pyrite and spotty pyrite (φ=2-15mm) sporadically
White kaolin common in intergranular spaces
62.10-62.30m : silty
63.30-63.70m : coarse-grained
67.50-67.55m : calcareous concretion with pyrite and coaly fragments
Light grey massive calcareous medium-grained sandstone, bearing disseminated pyrite and spotty pyrite (φ=5-15mm) sporadically
Light grey coarse-grained sand-stone, rich in siltstone fragments(φmax=10cm+)
Light grey banded calcareous medium-grained sandstone, disseminating pyrite
Grey banded calcareous coarse-grained sandstone
Pyrite as disseminated, banded and spotty form
85.85-86.80m : very coarse-grained sandstone to granule conglomerate, bearing siltstone and black coaly fragments
Grey banded calcareous fine-grained sandstone
Green(top) to grey(bottom) massive siltstone, bearing calcareous nodule(φ<2cm) partly
90.80m-bottom : banded
Grey calcareous flaser bedding bed
Light grey banded calcareous fine-grained sandstone
Pyritic concretion :
93.30m φ=1×2cm
98.60m φ=3×3.5(+)cm
99.00m φ=1.5×3cm
Light grey banded calcareous fine-grained sandstone, intercalating black sandy siltstone seams
Alternation of light grey weakly banded coarse-grained sandstone and banded medium-grained sandstone, both calcareous and disseminating pyrite
105.60-105.70m : pyritic bands, 1mm(-) wide ×6
108.30m : black carbonaceous fragment(φ<3cm)
Alternation of light grey banded fine-grained sandstone, medium-grained sandstone and coarse-grained sandstone, no or very weakly calcareous
Thickness 0.5m to 1m
Pyritic thin bands common
116.50-117.20m : rich in siltstone fragments
Green shared sandstone
Grey massive calcareous sandstone
Greenish grey massive siltstone, shared weakly and disseminating very fine-grained pyrite
Light greenish grey weakly banded calcareous medium-grained sandstone
Light grey banded calcareous coarse-grained sandstone
126.70-126.90m : rich in disseminated pyrite
Light grey weakly banded calcareous medium>fine-grained sandstone, disseminating pyrite weakly
Light grey banded calcareous coarse-grained sandstone
Light grey banded calcareous coarse-grained sandstone
Light grey weakly banded calcareous medium>fine-grained sandstone, disseminating pyrite weakly
Grey massive calcareous fine-grained sandstone, bearing spotty pyrite(φ=1-3mm) up to 139.40m
Light grey weakly banded coarse-grained sandstone, bearing siltstone fragments and black coaly films
Light grey massive calcareous medium-grained sandstone
Black banded siltstone
Light grey massive calcareous medium-grained sandstone
Grey banded calcareous fine-grained sandstone
149.20-150.10m : relatively massive
150.40m
weak, minor
moderate
strong, abundant
Kaolinization
Pyritization

Appendix 10 Geological Log of Diamond Drill Hole, MJKM-2

MJKM-2

Location : Jibana　Altitude : 111.0 m　Direction : N68°W　Angle : −50°　Depth : 150.70 m

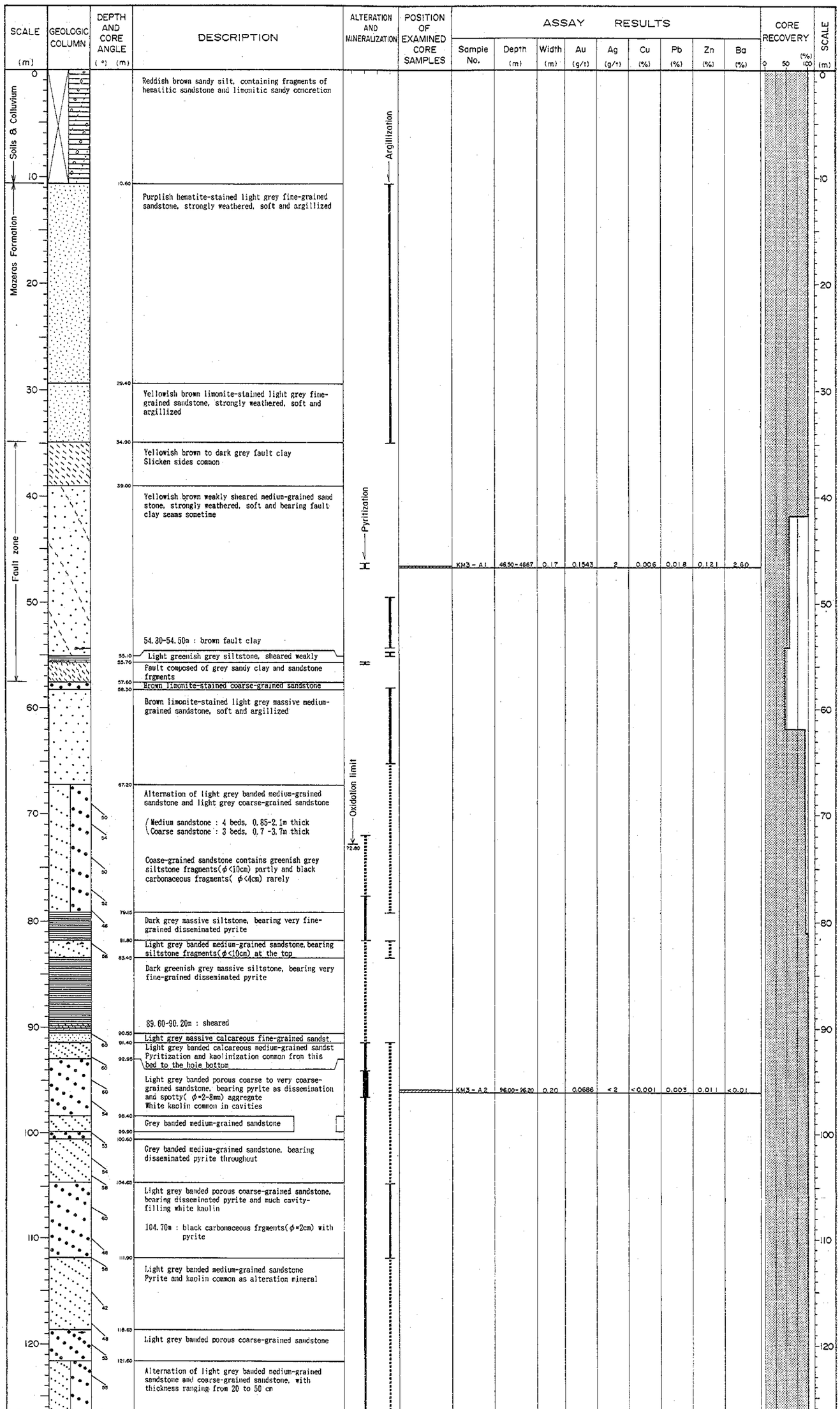


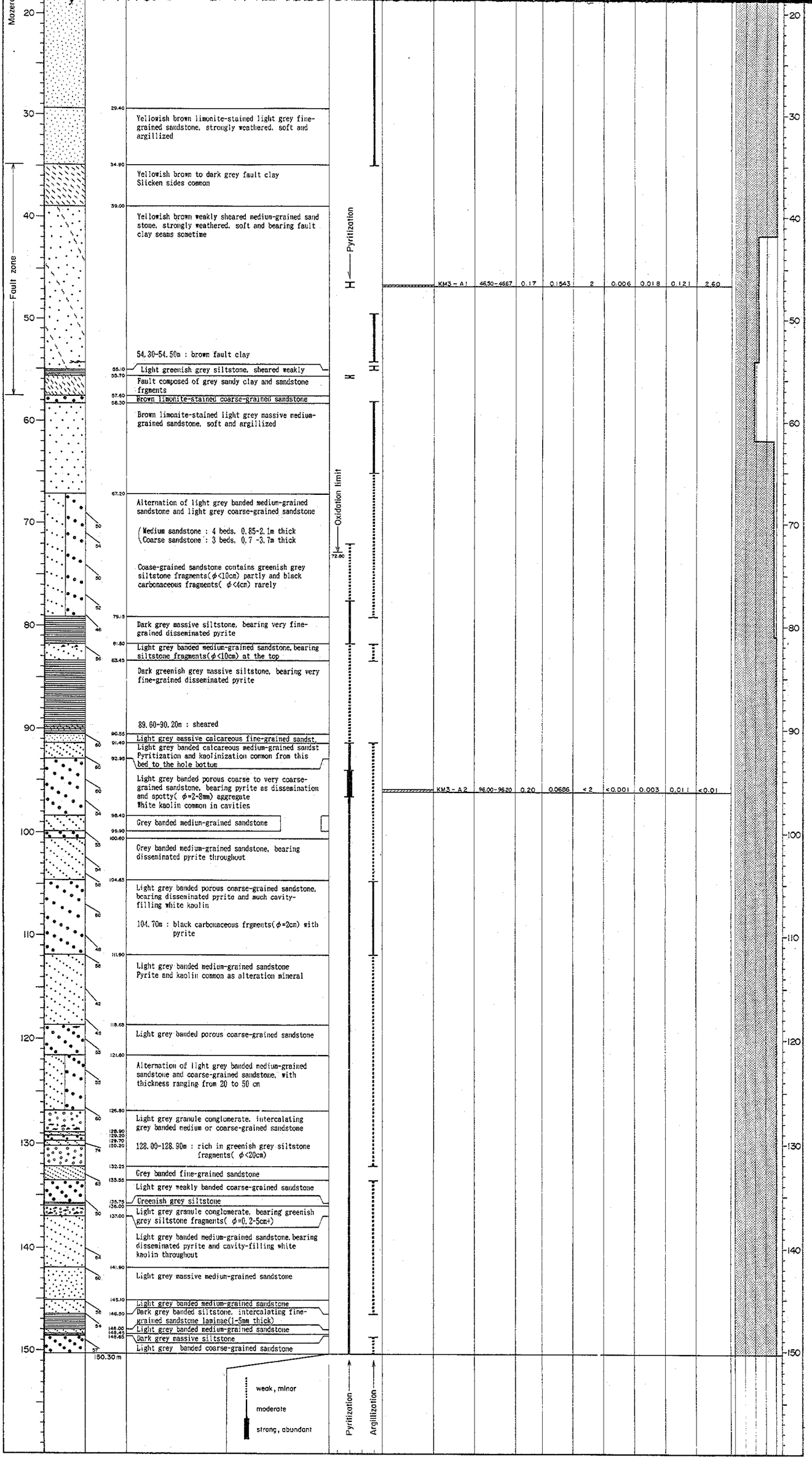

Soils & Colluvium
Kambe F.
Fault Zone
Mazeras Formation
25.70 Yellowish orange silty fine-grained sand
28.20
28.90 Yellowish orange sandy silt
Grey limestone with brecciated texture
30.5-34.0m : dominated by light brown sandy clay, bearing limestone fragments (cavity fillings in limestone)
36.50 Dark brown fault clay, disseminating pyrite
36.80 Light brown sheared sandstone
43.90 Light brown weathered weakly banded coarse-grained sandstone
48.00 Grey to light brown banded silty very fine-grained sandstone
49.20 Light brown massive silty medium-grained sandstone
49.80 Light brown banded silty fine-grained sandstone
50.70 Light brown weathered coarse-grained sandstone
White kaolin common in intergranular spaces of sand grains, no calcareous
50.7-56.0m : massive
56.0-58.4m : banded
56.00
58.40 Grey banded silty fine-grained sandstone, no calcareous, disseminating minor pyrite
62.20 Brown banded coarse-grained sandstone
63.00 Grey banded medium-grained sandstone
63.50 Grey banded coarse-grained sandstone, no calcareous
65.3-65.5m:very coarse and bearing pitch fragments
65.50 Greenish grey massive siltstone, disseminating minor pyrite
Upper most part is sheared.
69.20 Light grey banded very calcareous fine-grained sandstone, disseminating minor pyrite
71.10 Greenish grey weakly banded siltstone, sheared partly and disseminating minor pyrite
73.40 Alternation of dark grey, partly sheared siltstone and light grey banded very calcareous fine-grained sandstone
siltstone : 0.3-1.5m, sandstone : 0.4-0.7m thick
77.2-77.8m : flaser bedding bed
78.60 Light grey banded calcareous fine-grained sandst.
79.20 Grey to brownish grey weakly banded medium>coarse-grained sandstone, calcareous, bearing disseminated pyrite and sporadic spotty pyrite(φ=3-10mm)
79.0-80.5m : bleached selvage with pyrite common
83.7-83.9m : sheared and pyritized siltstone
84.30 Grey banded coarse-grained sandstone, disseminating pyrite and calcareous partly
White kaolin common in intergranular spaces of sand grains
85.2-86.5m : veined by pyrite (<1cm wide) in part
90.3-90.6m : rich in siltstone fragments (φ<4cm)
90.80 Greenish grey siltstone, sheared and pyritized
91.30 Grey flaser bedding bed, very calcareous
93.50 Greenish grey siltstone, sheared and pyritized
93.80
94.20 Light grey very calcareous fine-grained sandstone, rich in disseminated pyrite
Grey banded calcareous medium-grained sandstone, bearing sporadic spotty pyrite(φ=2-5mm)
95.55-95.65m, 95.9-96.0m : greenish grey siltstone
99.10 Grey banded calcareous coarse-grained sandstone
99.60 Grey banded calcareous fine-grained sandstone
100.90 Grey massive calcareous medium-grained sandstone
102.45 Grey banded calcareous medium-grained sandstone
104.05 Grey banded calcareous coarse-grained sandstone
106.0-109.5m : bearing carbonaceous fragments
106.50 Grey banded calcareous medium-grained sandstone
109.10
Grey banded calcareous coarse-grained sandstone, bearing carbonaceous or siltstone fragments rarely and spotty pyrite (φ=5-15mm) sporadically
Dark greenish grey bands are composed of muscovite biotite, chlorite, and clay minerals
White kaolin in intergranular spaces common
125.6-125.65m : black coal seam
125.60 Grey very coarse-grained sandstone to granule conglomerate, bearing black carbonaceous(pitch like) seams, veinlets and fragments
128.40 Grey banded calcareous medium-grained sandstone
128.3-130.5m : rich in siltstone fragments
128.3-128.8m : sporadic carbonaceous fragments
132.20 Grey banded calcareous coarse-grained sandstone
134.80 Dark grey banded silty fine-grained sandstone, rich in disseminated pyrite
135.4-135.6m : light grey massive very calcareous
137.30 Light grey massive calcareous medium-gr. sandstone
138.30
139.00 Dark grey banded silty fine-grained sandstone, rich in disseminated pyrite
Greenish grey massive siltstone, sheared partly
142.80
142.8-145.1m : sandy and calcareous
145.10 Light grey massive calcareous medium-gr. sandstone
147.60 Dark grey massive very fine-grained sandstone
148.10
Grey banded calcareous medium-grained sandstone
150.70m
Pyritization
Kaolinization
Oxidation limit
Pyrite veinlets (<1cm wide)
weak, minor
moderate
strong, abundant

Appendix 11 Geological Log of Diamond Drill Hole, MJKM-3

MJKM-3

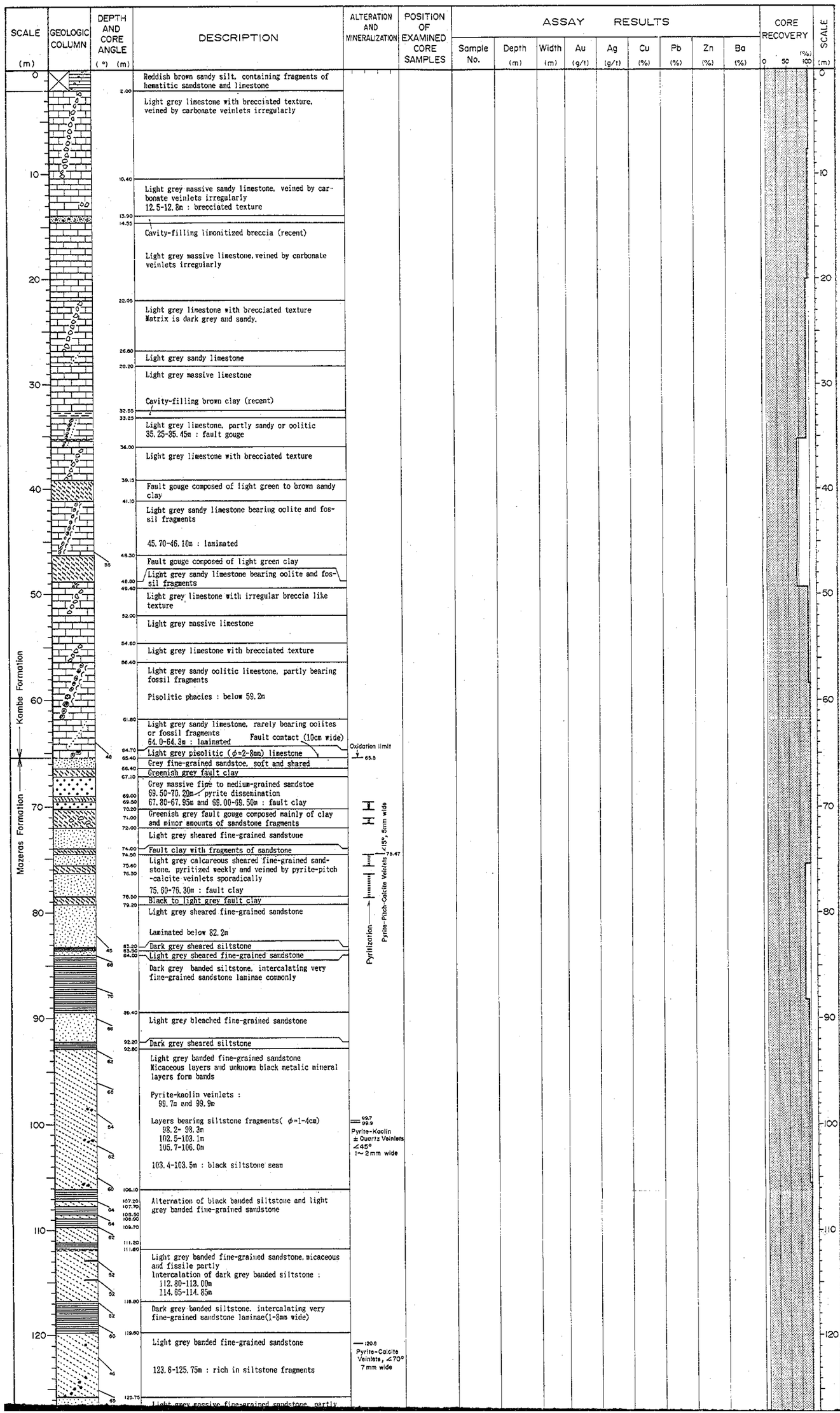
Location : Jibana　Altitude : 127.0 m　Direction : N53°W　Angle : −50°　Depth : 150.30 m

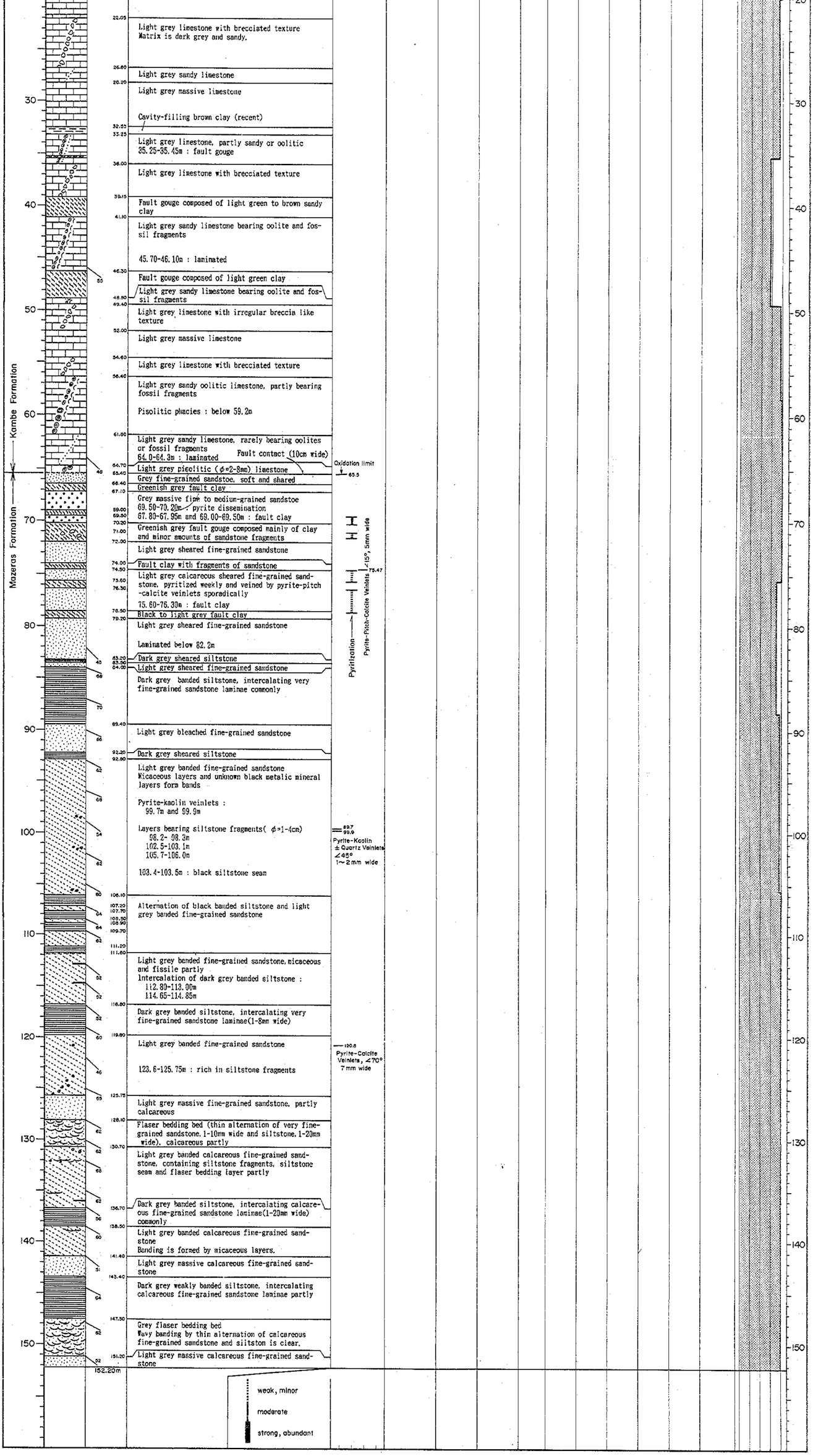



Mazer
Fault zone
Pyritization
Oxidation limit
29.40 Yellowish brown limonite-stained light grey fine-grained sandstone, strongly weathered, soft and argillized
34.90 Yellowish brown to dark grey fault clay
Slicken sides common
39.00 Yellowish brown weakly sheared medium-grained sand stone, strongly weathered, soft and bearing fault clay seams sometime
54.30-54.50m : brown fault clay
55.10 Light greenish grey siltstone, sheared weakly
55.70 Fault composed of grey sandy clay and sandstone frgments
57.60 Brown limonite-stained coarse-grained sandstone
58.30 Brown limonite-stained light grey massive medium-grained sandstone, soft and argillized
67.20 Alternation of light grey banded medium-grained sandstone and light grey coarse-grained sandstone
Medium sandstone : 4 beds, 0.85-2.1m thick
Coarse sandstone : 3 beds, 0.7 -3.7m thick
Coase-grained sandstone contains greenish grey siltstone fragments(φ<10cm) partly and black carbonaceous fragments(φ<4cm) rarely
72.80
79.15 Dark grey massive siltstone, bearing very fine-grained disseminated pyrite
81.60 Light grey banded medium-grained sandstone, bearing siltstone fragments(φ<10cm) at the top
83.45 Dark greenish grey massive siltstone, bearing very fine-grained disseminated pyrite
89.60-90.20m : sheared
90.55 Light grey massive calcareous fine-grained sandst.
91.40 Light grey banded calcareous medium-grained sandst
92.95 Pyritization and kaolinization common from this bed to the hole bottom
Light grey banded porous coarse to very coarse-grained sandstone, bearing pyrite as dissemination and spotty(φ=2-8mm) aggregate
White kaolin common in cavities
98.40 Grey banded medium-grained sandstone
99.90
100.60 Grey banded medium-grained sandstone, bearing disseminated pyrite throughout
104.65 Light grey banded porous coarse-grained sandstone, bearing disseminated pyrite and much cavity-filling white kaolin
104.70m : black carbonaceous frgments(φ=2cm) with pyrite
111.90 Light grey banded medium-grained sandstone
Pyrite and kaolin common as alteration mineral
118.65 Light grey banded porous coarse-grained sandstone
121.60 Alternation of light grey banded medium-grained sandstone and coarse-grained sandstone, with thickness ranging from 20 to 50 cm
126.80 Light grey granule conglomerate, intercalating grey banded medium or coarse-grained sandstone
128.90
129.20
129.70
130.20 128.00-128.90m : rich in greenish grey siltstone fragments(φ<20cm)
132.25 Grey banded fine-grained sandstone
133.55 Light grey weakly banded coarse-grained sandstone
135.75 Greenish grey siltstone
136.00
137.00 Light grey granule conglomerate, bearing greenish grey siltstone fragments(φ=0.2-5cm+)
Light grey banded medium-grained sandstone, bearing disseminated pyrite and cavity-filling white kaolin throughout
141.90 Light grey massive medium-grained sandstone
145.10 Light grey banded medium-grained sandstone
146.50 Dark grey banded siltstone, intercalating fine-grained sandstone laminae(1-5mm thick)
146.00
146.45
146.65 Light grey banded medium-grained sandstone
Dark grey massive siltstone
Light grey banded coarse-grained sandstone
150.30 m
KM3-A1 4630-4667 0.17 0.1543 2 0.006 0.018 0.121 2.60
KM3-A2 96.00-96.20 0.20 0.0686 < 2 <0.001 0.003 0.011 <0.01
weak, minor
moderate
strong, abundant
Pyritization
Argillization

Appendix 12 Geological Log of Diamond Drill Hole, MJKM-4

MJKM-4 Location : Chiume Hill Altitude : 140.5 m Direction : N82°W Angle : −50° Depth : 152.20 m




Mazeras Formation
Kambe Formation
Light grey limestone with brecciated texture Matrix is dark grey and sandy.
Light grey sandy limestone
Light grey massive limestone
Cavity-filling brown clay (recent)
Light grey limestone, partly sandy or oolitic 35.25-35.45m : fault gouge
Light grey limestone with brecciated texture
Fault gouge composed of light green to brown sandy clay
Light grey sandy limestone bearing oolite and fossil fragments
45.70-46.10m : laminated
Fault gouge composed of light green clay
Light grey sandy limestone bearing oolite and fossil fragments
Light grey limestone with irregular breccia like texture
Light grey massive limestone
Light grey limestone with brecciated texture
Light grey sandy oolitic limestone, partly bearing fossil fragments
Pisolitic phacies : below 59.2m
Light grey sandy limestone, rarely bearing oolites or fossil fragments
64.0-64.3m : laminated
Fault contact (10cm wide)
Light grey piscolitic (ϕ=2-8mm) limestone
Oxidation limit
Grey fine-grained sandstoe, soft and shared
Greenish grey fault clay
Grey massive fine to medium-grained sandstoe
69.50-70.20m : pyrite dissemination
67.80-67.95m and 69.00-69.50m : fault clay
Greenish grey fault gouge composed mainly of clay and minor amounts of sandstone fragments
Light grey sheared fine-grained sandstone
Fault clay with fragments of sandstone
Light grey calcareous sheared fine-grained sandstone, pyritized weekly and veined by pyrite-pitch -calcite veinlets sporadically
75.60-76.30m : fault clay
Black to light grey fault clay
Light grey sheared fine-grained sandstone
Laminated below 82.2m
Dark grey sheared siltstone
Light grey sheared fine-grained sandstone
Dark grey banded siltstone, intercalating very fine-grained sandstone laminae commonly
Light grey bleached fine-grained sandstone
Dark grey sheared siltstone
Light grey banded fine-grained sandstone
Micaceous layers and unknown black metalic mineral layers form bands
Pyrite-kaolin veinlets :
99.7m and 99.9m
Layers bearing siltstone fragments(ϕ=1-4cm)
98.2- 98.3m
102.5-103.1m
105.7-106.0m
103.4-103.5m : black siltstone seam
Pyrite-Kaolin ± Quartz Veinlets ∠45° 1~2mm wide
Alternation of black banded siltstone and light grey banded fine-grained sandstone
Light grey banded fine-grained sandstone, micaceous and fissile partly
Intercalation of dark grey banded siltstone :
112.80-113.80m
114.65-114.85m
Dark grey banded siltstone, intercalating very fine-grained sandstone laminae(1-8mm wide)
Light grey banded fine-grained sandstone
123.6-125.75m : rich in siltstone fragments
Pyrite-Calcite Veinlets, ∠70° 7mm wide
Light grey massive fine-grained sandstone, partly calcareous
Flaser bedding bed (thin alternation of very fine-grained sandstone, 1-10mm wide and siltstone, 1-20mm wide), calcareous partly
Light grey banded calcareous fine-grained sandstone, containing siltstone fragments, siltstone seam and flaser bedding layer partly
Dark grey banded siltstone, intercalating calcareous fine-grained sandstone laminae(1-20mm wide) commonly
Light grey banded calcareous fine-grained sandstone
Banding is formed by micaceous layers.
Light grey massive calcareous fine-grained sandstone
Dark grey weakly banded siltstone, intercalating calcareous fine-grained sandstone laminae partly
Grey flaser bedding bed
Wavy banding by thin alternation of calcareous fine-grained sandstone and siltston is clear.
Light grey massive calcareous fine-grained sandstone
152.20m
Pyritization
Pyrite-Pitch-Calcite Veinlets ∠15°, 5mm wide
weak, minor
moderate
strong, abundant

Appendix 13 Geological Log of Diamond Drill Hole, MJKM-5

MJKM-5 Location : Ribe Altitude : 157.5m Direction : S75°W Angle : −50° Depth : 150.50m

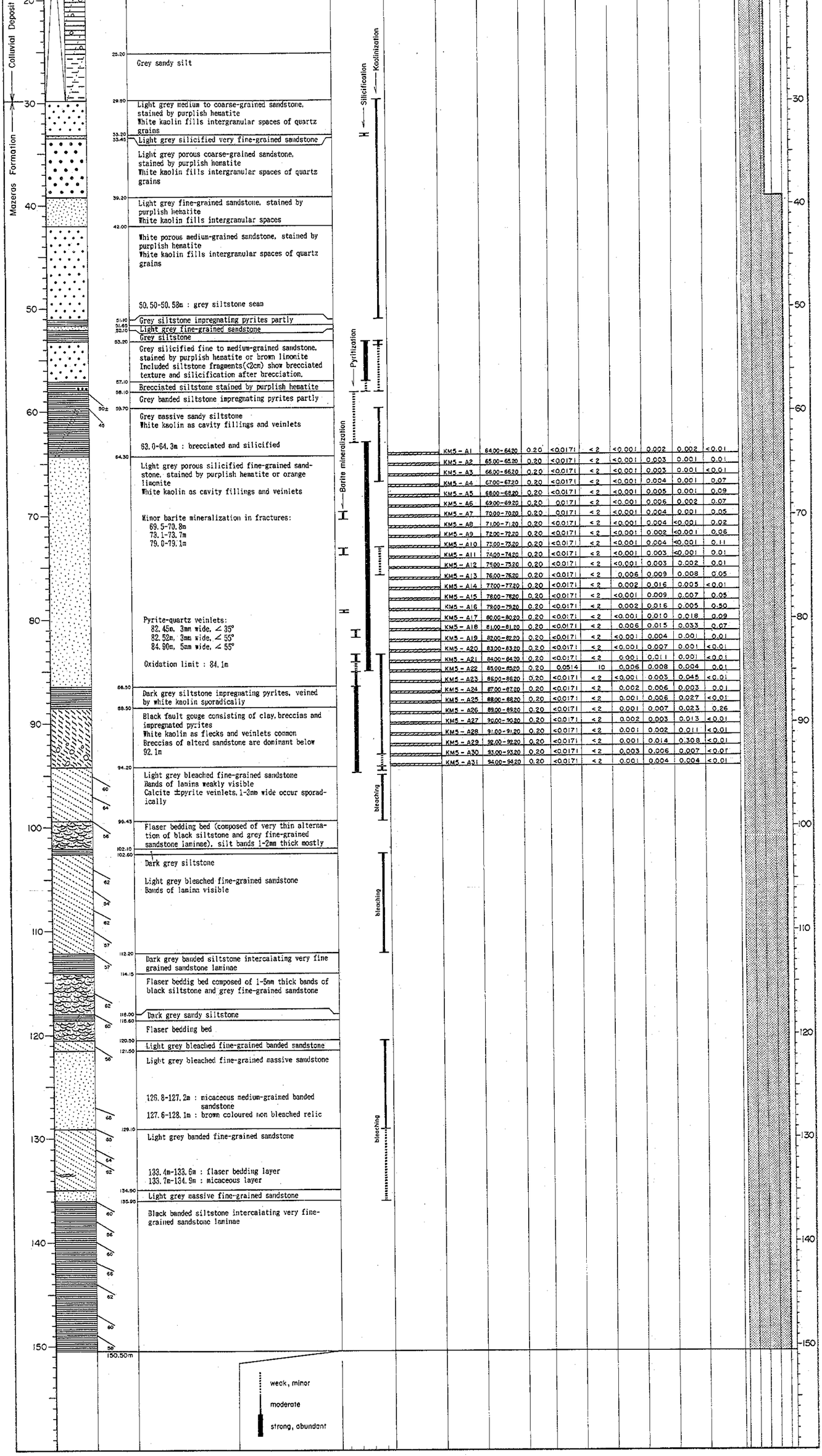
DEPTH AND CORE ANGLE (°) (m)	DESCRIPTION	ALTERATION AND MINERALIZATION	POSITION OF EXAMINED CORE SAMPLES
	Colluvial Deposit		
	Mazeras Formation		
	Reddish brown sandy clay, containing fragments of sandstone and silicified rock		
8.80	White to yelowish brown kaolinitic clay		
12.00	White to light brown kaolinitic clay, containing fragments of altered sandstone partly		
25.20	Grey sandy silt		
29.90	Light grey medium to coarse-grained sandstone, stained by purplish hematite White kaolin fills intergranular spaces of quartz grains	Silicification Kaolinization	
33.20 33.45	Light grey silicified very fine-grained sandstone		
39.20	Light grey porous coarse-grained sandstone, stained by purplish hematite White kaolin fills intergranular spaces of quartz grains		
42.00	Light grey fine-grained sandstone, stained by purplish hematite White kaolin fills intergranular spaces		
	White porous medium-grained sandstone, stained by purplish hematite White kaolin fills intergranular spaces of quartz grains		
	50.50-50.58m : grey siltstone seam		
51.10	Grey siltstone impregnating pyrites partly		
51.65 52.50	Light grey fine-grained sandstone		
53.20	Grey siltstone		
	Grey silicified fine to medium-grained sandstone, stained by purplish hematite or brown limonite Included siltstone fragments(<2cm) show brecciated texture and silicification after brecciation.	Pyritization	
57.10	Brecciated siltstone stained by purplish hematite		
58.16	Grey banded siltstone impregnating pyrites partly		
59.70	Grey massive sandy siltstone White kaolin as cavity fillings and veinlets		
	63.0-64.3m : brecciated and silicified		
64.30	Light grey porous silicified fine-grained sandstone, stained by purplish hematite or orange limonite White kaolin as cavity fillings and veinlets		
	Minor berite mineralization in fractures: 69.5-70.8m 73.1-73.7m 79.0-79.1m	Berite mineralization	
	Pyrite-quartz veinlets: 82.45m, 3mm wide, ∠ 35° 82.52m, 3mm wide, ∠ 55° 84.90m, 5mm wide, ∠ 55° Oxidation limit : 84.1m		
86.50	Dark grey siltstone impregnating pyrites, veined by white kaolin sporadically		
88.50	Black fault gouge consisting of clay, breccias and impregnated pyrites White kaolin as flecks and veinlets common Breccias of alterd sandstone are dominant below 92.1m		
94.20	Light grey bleached fine-grained sandstone Bands of lamina weakly visible Calcite ±pyrite veinlets, 1-3mm wide occur sporadically	Bleaching	
99.43	Flaser bedding bed (composed of very thin alternation of black siltstone and grey fine-grained sandstone laminae), silt bands 1-2mm thick mostly		
102.10 102.60	Dark grey siltstone		
	Light grey bleached fine-grained sandstone Bands of lamina visible	bleaching	
112.20	Dark grey banded siltstone intercalating very fine grained sandstone laminae		
114.15	Flaser beddig bed composed of 1-5mm thick bands of black siltstone and grey fine-grained sandstone		
118.00 118.60	Dark grey sandy siltstone		
	Flaser bedding bed		
120.50	Light grey bleached fine-grained banded sandstone		
121.50	Light grey bleached fine-grained massive sandstone		

ASSAY RESULTS

Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Ba (%)
KM5-A1	64.00-64.20	0.20	<0.017	< 2	<0.001	0.002	0.002	<0.01
KM5-A2	65.00-65.20	0.20	<0.017	< 2	<0.001	0.003	0.001	0.01
KM5-A3	66.00-66.20	0.20	<0.017	< 2	<0.001	0.003	0.001	<0.01
KM5-A4	67.00-67.20	0.20	<0.017	< 2	<0.001	0.004	0.001	0.07
KM5-A5	68.00-68.20	0.20	<0.017	< 2	<0.001	0.005	0.001	0.09
KM5-A6	69.00-69.20	0.20	0.017	< 2	<0.001	0.005	0.002	0.07
KM5-A7	70.00-70.20	0.20	0.017	< 2	<0.001	0.004	0.001	0.05
KM5-A8	71.00-71.20	0.20	<0.017	< 2	<0.001	0.004	<0.001	0.02
KM5-A9	72.00-72.20	0.20	<0.017	< 2	<0.001	0.002	<0.001	0.06
KM5-A10	73.00-73.20	0.20	<0.017	< 2	<0.001	0.004	<0.001	0.11
KM5-A11	74.00-74.20	0.20	<0.017	< 2	<0.001	0.003	<0.001	0.01
KM5-A12	75.00-75.20	0.20	<0.017	< 2	<0.001	0.003	0.002	0.01
KM5-A13	76.00-76.20	0.20	<0.017	< 2	0.006	0.009	0.008	0.05
KM5-A14	77.00-77.20	0.20	<0.017	< 2	0.002	0.016	0.005	<0.01
KM5-A15	78.00-78.20	0.20	<0.017	< 2	<0.001	0.009	0.007	0.05
KM5-A16	79.00-79.20	0.20	<0.017	< 2	0.002	0.016	0.005	0.50
KM5-A17	80.00-80.20	0.20	<0.017	< 2	<0.001	0.010	0.018	0.09
KM5-A18	81.00-81.20	0.20	<0.017	< 2	0.006	0.015	0.033	0.07
KM5-A19	82.00-82.20	0.20	<0.017	< 2	<0.001	0.004	0.001	0.01
KM5-A20	83.00-83.20	0.20	<0.017	< 2	<0.001	0.007	0.001	<0.01
KM5-A21	84.00-84.20	0.20	<0.017	< 2	0.001	0.011	0.001	<0.01
KM5-A22	85.00-85.20	0.20	0.051	10	0.006	0.008	0.004	0.01
KM5-A23	86.00-86.20	0.20	<0.017	< 2	<0.001	0.003	0.045	<0.01
KM5-A24	87.00-87.20	0.20	<0.017	< 2	0.002	0.006	0.003	0.01
KM5-A25	88.00-88.20	0.20	<0.017	< 2	0.001	0.006	0.027	<0.01
KM5-A26	89.00-89.20	0.20	<0.017	< 2	0.001	0.007	0.023	0.26
KM5-A27	90.00-90.20	0.20	<0.017	< 2	0.002	0.003	0.013	<0.01
KM5-A28	91.00-91.20	0.20	<0.017	< 2	0.001	0.002	0.011	<0.01
KM5-A29	92.00-92.20	0.20	<0.017	< 2	0.001	0.014	0.308	<0.01
KM5-A30	93.00-93.20	0.20	<0.017	< 2	0.003	0.006	0.007	<0.01
KM5-A31	94.00-94.20	0.20	<0.017	< 2	0.001	0.004	0.004	<0.01

CORE RECOVERY (%) 0 50 100

SCALE (m) 0 10 20 30 40 50 60 70 80 90 100 110 120



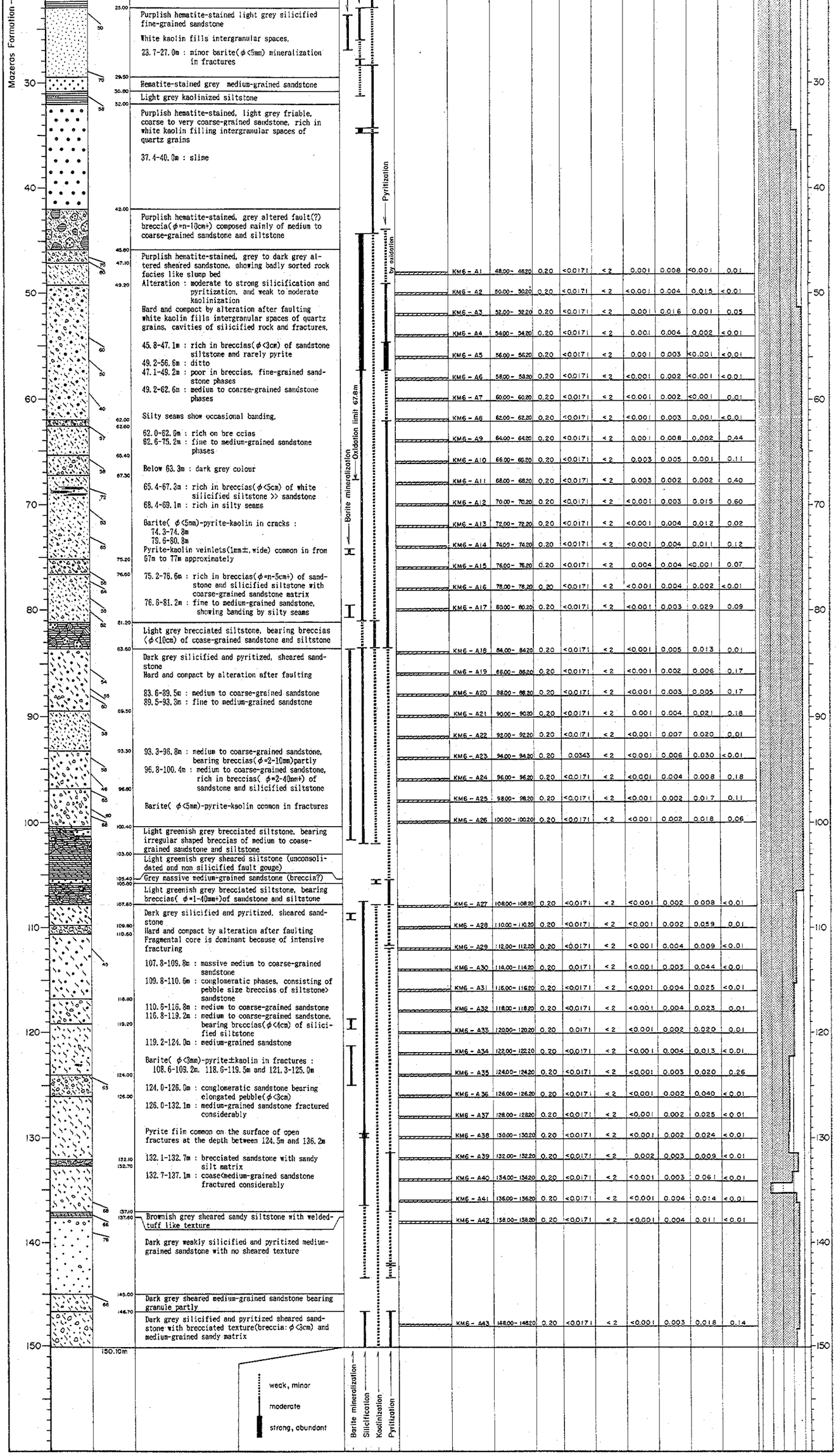
KM5-A1	6400-6420	0.20	<0.0171	< 2	<0.001	0.002	0.002	<0.01
KM5-A2	6500-6520	0.20	<0.0171	< 2	<0.001	0.003	0.001	0.01
KM5-A3	6600-6620	0.20	<0.0171	< 2	<0.001	0.003	0.001	<0.01
KM5-A4	6700-6720	0.20	<0.0171	< 2	<0.001	0.004	0.001	0.07
KM5-A5	6800-6820	0.20	<0.0171	< 2	<0.001	0.005	0.001	0.09
KM5-A6	6900-6920	0.20	0.0171	< 2	<0.001	0.006	0.002	0.07
KM5-A7	7000-7020	0.20	0.0171	< 2	<0.001	0.004	0.001	0.05
KM5-A8	7100-7120	0.20	<0.0171	< 2	<0.001	0.004	<0.001	0.02
KM5-A9	7200-7220	0.20	<0.0171	< 2	<0.001	0.002	<0.001	0.06
KM5-A10	7300-7320	0.20	<0.0171	< 2	<0.001	0.004	<0.001	0.11
KM5-A11	7400-7420	0.20	<0.0171	< 2	<0.001	0.003	<0.001	0.01
KM5-A12	7500-7520	0.20	<0.0171	< 2	<0.001	0.003	0.002	0.01
KM5-A13	7600-7620	0.20	<0.0171	< 2	0.006	0.009	0.008	0.05
KM5-A14	7700-7720	0.20	<0.0171	< 2	0.002	0.016	0.005	<0.01
KM5-A15	7800-7820	0.20	<0.0171	< 2	<0.001	0.009	0.007	0.05
KM5-A16	7900-7920	0.20	<0.0171	< 2	0.002	0.015	0.005	0.50
KM5-A17	8000-8020	0.20	<0.0171	< 2	<0.001	0.010	0.018	0.09
KM5-A18	8100-8120	0.20	<0.0171	< 2	0.006	0.015	0.033	0.07
KM5-A19	8200-8220	0.20	<0.0171	< 2	<0.001	0.004	0.001	0.01
KM5-A20	8300-8320	0.20	<0.0171	< 2	<0.001	0.007	0.001	<0.01
KM5-A21	8400-8420	0.20	<0.0171	< 2	0.001	0.011	0.001	<0.01
KM5-A22	8500-8520	0.20	0.0514	10	0.006	0.008	0.004	0.01
KM5-A23	8600-8620	0.20	<0.0171	< 2	<0.001	0.003	0.045	<0.01
KM5-A24	8700-8720	0.20	<0.0171	< 2	0.002	0.006	0.003	0.01
KM5-A25	8800-8820	0.20	<0.0171	< 2	0.001	0.006	0.027	<0.01
KM5-A26	8900-8920	0.20	<0.0171	< 2	0.001	0.007	0.023	0.26
KM5-A27	9000-9020	0.20	<0.0171	< 2	0.002	0.003	0.013	<0.01
KM5-A28	9100-9120	0.20	<0.0171	< 2	0.001	0.002	0.011	<0.01
KM5-A29	9200-9220	0.20	<0.0171	< 2	0.001	0.014	0.308	<0.01
KM5-A30	9300-9320	0.20	<0.0171	< 2	0.003	0.006	0.007	<0.01
KM5-A31	9400-9420	0.20	<0.0171	< 2	0.001	0.004	0.004	<0.01

Appendix 14 Geological Log of Diamond Drill Hole, MJKM-6

MJKM-6 Location : Ribe Altitude : 138.0m Direction : S75°W Angle : −50° Depth : 150.10

DESCRIPTION	ALTERATION AND MINERALIZATION	POSITION OF EXAMINED CORE SAMPLES
Reddish brown sandy clay		
6.3-9.5m : bearing white altered sandstone fragments		
9.50 Red or light grey coloured clay		
11.10 Reddish brown sandy silt, containing fragments of grey altered rock		
14.50 Purplish grey altered rock fragments with sandy matrix	Baryte mineralization, Silicification, Kaolinization	
19.60 Purplish hematite-stained light grey argillized siltstone		
23.00 Purplish hematite-stained light grey silicified fine-grained sandstone White kaolin fills intergranular spaces. 23.7-27.0m : minor barite(ϕ<5mm) mineralization in fractures		
29.30 Hematite-stained grey medium-grained sandstone		
30.80 Light grey kaolinized siltstone		
32.00 Purplish hematite-stained, light grey friable, coarse to very coarse-grained sandstone, rich in white kaolin filling intergranular spaces of quartz grains 37.4-40.0m : slime		
42.00 Purplish hematite-stained, grey altered fault(?) breccia(ϕ=n-10cm+) composed mainly of medium to coarse-grained sandstone and siltstone	Pyritization	
46.80 Purplish hematite-stained, grey to dark grey altered sheared sandstone, showing badly sorted rock facies like slump bed Alteration : moderate to strong silicification and pyritization, and weak to moderate kaolinization Hard and compact by alteration after faulting white kaolin fills intergranular spaces of quartz grains, cavities of silicified rock and fractures. 45.8-47.1m : rich in breccias(ϕ<3cm) of sandstone siltstone and rarely pyrite 49.2-55.6m : ditto 47.1-49.2m : poor in breccias, fine-grained sandstone phases 49.2-62.6m : medium to coarse-grained sandstone phases Silty seams show occasional banding. 62.0-62.6m : rich on bre ccias 62.6-75.2m : fine to medium-grained sandstone phases Below 63.3m : dark grey colour 65.4-67.3m : rich in breccias(ϕ<5cm) of white silicified siltstone >> sandstone 68.4-69.1m : rich in silty seams Barite(ϕ<5mm)-pyrite-kaolin in cracks : 74.3-74.8m 79.6-80.8m Pyrite-kaolin veinlets(1mm±, wide) common in from 67m to 77m approximately 75.2-76.6m : rich in breccias(ϕ=n-5cm+) of sandstone and silicified siltstone with coarse-grained sandstone matrix 76.6-81.2m : fine to medium-grained sandstone, showing banding by silty seams	Baryte mineralization, Oxidation limit 67.8m	KM6-A1 46.00-46.20 0.20 <0.01 <2 0.001 0.008 <0.001 0.01 KM6-A2 50.00-50.20 0.20 <0.01 <2 <0.001 0.006 0.015 <0.01 KM6-A3 52.00-52.20 0.20 <0.01 <2 0.001 0.016 0.001 0.05 KM6-A4 54.00-54.20 0.20 <0.01 <2 0.001 0.004 0.002 <0.01 KM6-A5 56.00-56.20 0.20 <0.01 <2 0.001 0.003 <0.001 <0.01 KM6-A6 58.00-58.20 0.20 <0.01 <2 <0.001 0.002 <0.001 <0.01 KM6-A7 60.00-60.20 0.20 <0.01 <2 <0.001 0.002 <0.001 0.01 KM6-A8 62.00-62.20 0.20 <0.01 <2 <0.001 0.003 0.001 <0.01 KM6-A9 64.00-64.20 0.20 <0.01 <2 0.001 0.008 0.002 0.44 KM6-A10 66.00-66.20 0.20 <0.01 <2 0.003 0.005 0.001 0.11 KM6-A11 68.00-68.20 0.20 <0.01 <2 0.003 0.002 0.002 0.40 KM6-A12 70.00-70.20 0.20 <0.01 <2 <0.001 0.003 0.015 0.60 KM6-A13 72.00-72.20 0.20 <0.01 <2 <0.001 0.004 0.012 0.02 KM6-A14 74.00-74.20 0.20 <0.01 <2 <0.001 0.004 0.011 0.12 KM6-A15 76.00-76.20 0.20 <0.01 <2 0.004 0.004 <0.001 0.07 KM6-A16 78.00-78.20 0.20 <0.01 <2 <0.001 0.004 0.002 <0.01 KM6-A17 80.00-80.20 0.20 <0.01 <2 <0.001 0.003 0.029 0.09
81.20 Light grey brecciated siltstone, bearing breccias (ϕ<10cm) of coase-grained sandstone and siltstone		
83.60 Dark grey silicified and pyritized, sheared sandstone Hard and compact by alteration after faulting 83.6-89.5m : medium to coarse-grained sandstone 89.5-93.3m : fine to medium-grained sandstone		KM6-A18 84.00-84.20 0.20 <0.01 <2 <0.001 0.005 0.013 0.01 KM6-A19 86.00-86.20 0.20 <0.01 <2 <0.001 0.002 0.006 0.17 KM6-A20 88.00-88.20 0.20 <0.01 <2 <0.001 0.003 0.005 0.17 KM6-A21 90.00-90.20 0.20 <0.01 <2 0.001 0.004 0.021 0.18 KM6-A22 92.00-92.20 0.20 <0.01 <2 <0.001 0.007 0.020 0.01
93.30 93.3-96.8m : medium to coarse-grained sandstone, bearing breccias(ϕ=2-10mm)partly 96.8-100.4m : medium to coarse-grained sandstone, rich in breccias(ϕ=2-40mm+) of sandstone and silicified siltstone 96.80 Barite(ϕ<5mm)-pyrite-kaolin common in fractures		KM6-A23 94.00-94.20 0.20 0.0343 <2 <0.001 0.006 0.030 <0.01 KM6-A24 96.00-96.20 0.20 <0.01 <2 <0.001 0.004 0.008 0.18 KM6-A25 98.00-98.20 0.20 <0.01 <2 <0.001 0.002 0.017 0.11 KM6-A26 100.00-100.20 0.20 <0.01 <2 <0.001 0.002 0.018 0.05
100.40 Light greenish grey brecciated siltstone, bearing irregular shaped breccias of medium to coase-grained sandstone and siltstone		
103.00 Light greenish grey sheared siltstone (unconsolidated and non silicified fault gouge)		
103.40 Grey massive medium-grained sandstone (breccia?)		
105.80 Light greenish grey brecciated siltstone, bearing breccias(ϕ=1-40mm+)of sandstone and siltstone		
107.60 Dark grey silicified and pyritized, sheared sandstone 109.80 Hard and compact by alteration after faulting 110.60 Fragmental core is dominant because of intensive fracturing 107.8-109.8m : massive medium to coarse-grained sandstone 109.8-110.6m : conglomeratic phases, consisting of pebble size breccias of siltstone> sandstone		KM6-A27 108.00-108.20 0.20 <0.01 <2 <0.001 0.002 0.008 <0.01 KM6-A28 110.00-110.20 0.20 <0.01 <2 <0.001 0.002 0.059 0.01 KM6-A29 112.00-112.20 0.20 <0.01 <2 <0.001 0.004 0.009 <0.01 KM6-A30 114.00-114.20 0.20 0.01 <2 <0.001 0.003 0.044 <0.01 KM6-A31 116.00-116.20 0.20 <0.01 <2 <0.001 0.004 0.025 <0.01
116.80 110.6-116.8m : medium to coarse-grained sandstone 116.8-119.2m : medium to coarse-grained sandstone, bearing breccias(ϕ<4cm) of silicified siltstone 119.20 119.2-124.0m : medium-grained sandstone Barite(ϕ<3mm)-pyrite±kaolin in fractures : 108.6-109.2m, 118.6-119.5m and 121.3-125.0m		KM6-A32 118.00-118.20 0.20 <0.01 <2 <0.001 0.004 0.023 0.01 KM6-A33 120.00-120.20 0.20 0.01 <2 <0.001 0.002 0.020 0.01 KM6-A34 122.00-122.20 0.20 <0.01 <2 <0.001 0.004 0.013 <0.01 KM6-A35 124.00-124.20 0.20 <0.01 <2 <0.001 0.003 0.020 0.26
124.00 124.0-126.0m : conglomeratic sandstone bearing elongated pebble(ϕ<3cm) 126.00 126.0-132.1m : medium-grained sandstone fractured considerably Pyrite film common on the surface of open		KM6-A36 126.00-126.20 0.20 <0.01 <2 <0.001 0.002 0.040 <0.01 KM6-A37 126.00-126.20 0.20 <0.01 <2 <0.001 0.002 0.025 <0.01 KM6-A38 130.00-130.20 0.20 <0.01 <2 <0.001 0.002 0.024 <0.01

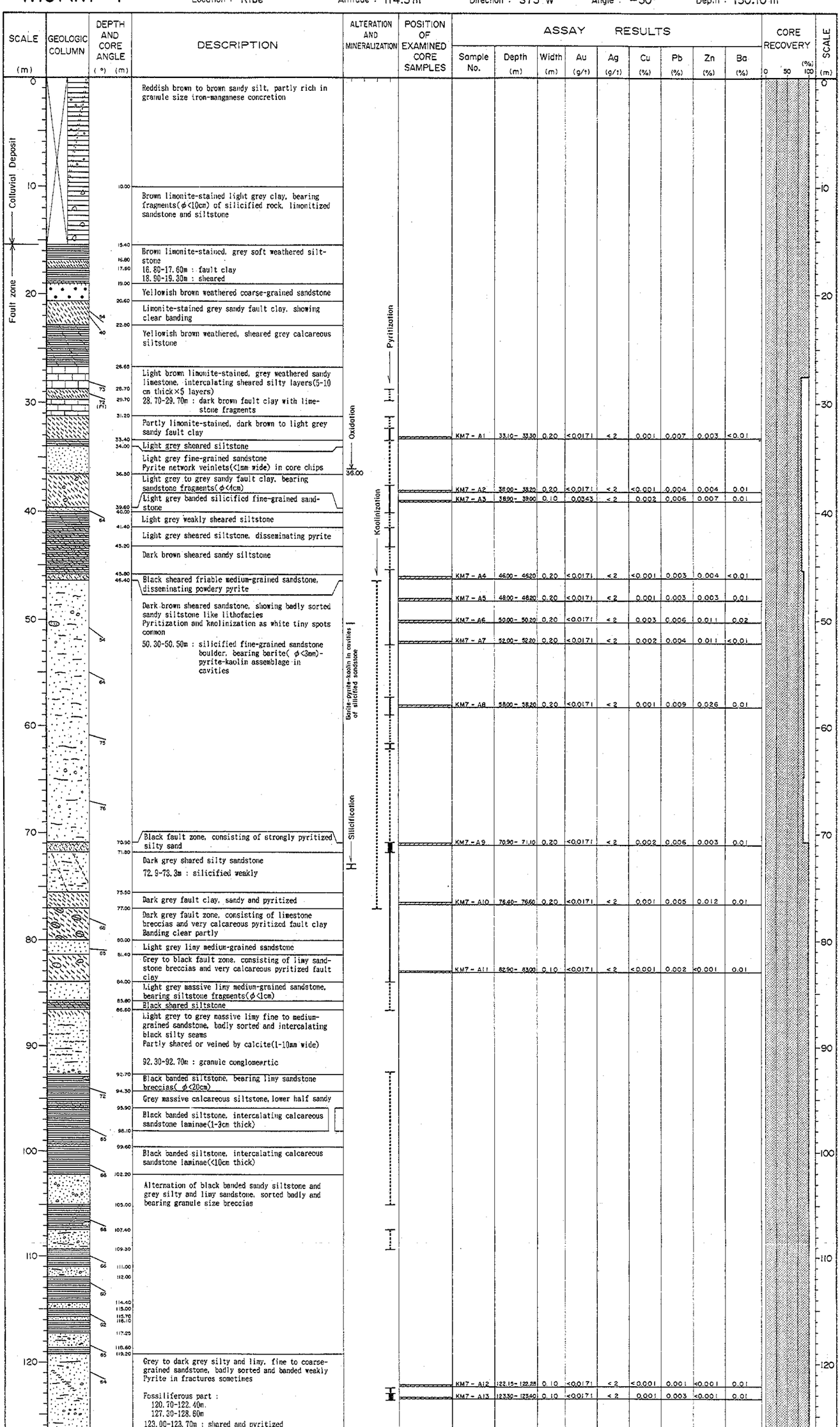
Mazeras Formation — Colluvial Deposit



KM6-A1	48.00-48.20	0.20	<0.0171	<2	0.001	0.008	<0.001	0.01
KM6-A2	50.00-50.20	0.20	<0.0171	<2	<0.001	0.004	0.015	<0.01
KM6-A3	52.00-52.20	0.20	<0.0171	<2	0.001	0.016	0.001	0.05
KM6-A4	54.00-54.20	0.20	<0.0171	<2	0.001	0.004	0.002	<0.01
KM6-A5	56.00-56.20	0.20	<0.0171	<2	0.001	0.003	<0.001	<0.01
KM6-A6	58.00-58.20	0.20	<0.0171	<2	<0.001	0.002	<0.001	<0.01
KM6-A7	60.00-60.20	0.20	<0.0171	<2	<0.001	0.002	<0.001	0.01
KM6-A8	62.00-62.20	0.20	<0.0171	<2	<0.001	0.003	0.001	<0.01
KM6-A9	64.00-64.20	0.20	<0.0171	<2	0.001	0.008	0.002	0.44
KM6-A10	66.00-66.20	0.20	<0.0171	<2	0.003	0.005	0.001	0.11
KM6-A11	68.00-68.20	0.20	<0.0171	<2	0.003	0.002	0.002	0.40
KM6-A12	70.00-70.20	0.20	<0.0171	<2	<0.001	0.003	0.015	0.60
KM6-A13	72.00-72.20	0.20	<0.0171	<2	<0.001	0.004	0.012	0.02
KM6-A14	74.00-74.20	0.20	<0.0171	<2	<0.001	0.004	0.011	0.12
KM6-A15	76.00-76.20	0.20	<0.0171	<2	0.004	0.004	<0.001	0.07
KM6-A16	78.00-78.20	0.20	<0.0171	<2	<0.001	0.004	0.002	<0.01
KM6-A17	80.00-80.20	0.20	<0.0171	<2	<0.001	0.003	0.029	0.09
KM6-A18	84.00-84.20	0.20	<0.0171	<2	<0.001	0.005	0.013	0.01
KM6-A19	86.00-86.20	0.20	<0.0171	<2	<0.001	0.002	0.006	0.17
KM6-A20	88.00-88.20	0.20	<0.0171	<2	<0.001	0.003	0.005	0.17
KM6-A21	90.00-90.20	0.20	<0.0171	<2	0.001	0.004	0.021	0.18
KM6-A22	92.00-92.20	0.20	<0.0171	<2	<0.001	0.007	0.020	0.01
KM6-A23	94.00-94.20	0.20	0.0343	<2	<0.001	0.006	0.030	<0.01
KM6-A24	96.00-96.20	0.20	<0.0171	<2	<0.001	0.004	0.008	0.18
KM6-A25	98.00-98.20	0.20	<0.0171	<2	<0.001	0.002	0.017	0.11
KM6-A26	100.00-100.20	0.20	<0.0171	<2	<0.001	0.002	0.018	0.06
KM6-A27	108.00-108.20	0.20	<0.0171	<2	<0.001	0.002	0.008	<0.01
KM6-A28	110.00-110.20	0.20	<0.0171	<2	<0.001	0.002	0.059	0.01
KM6-A29	112.00-112.20	0.20	<0.0171	<2	<0.001	0.004	0.009	<0.01
KM6-A30	114.00-114.20	0.20	0.0171	<2	<0.001	0.003	0.044	<0.01
KM6-A31	116.00-116.20	0.20	<0.0171	<2	<0.001	0.004	0.025	<0.01
KM6-A32	118.00-118.20	0.20	<0.0171	<2	<0.001	0.004	0.023	0.01
KM6-A33	120.00-120.20	0.20	0.0171	<2	<0.001	0.002	0.020	0.01
KM6-A34	122.00-122.20	0.20	<0.0171	<2	<0.001	0.004	0.013	<0.01
KM6-A35	124.00-124.20	0.20	<0.0171	<2	<0.001	0.003	0.020	0.26
KM6-A36	126.00-126.20	0.20	<0.0171	<2	<0.001	0.002	0.040	<0.01
KM6-A37	128.00-128.20	0.20	<0.0171	<2	<0.001	0.002	0.025	<0.01
KM6-A38	130.00-130.20	0.20	<0.0171	<2	<0.001	0.002	0.026	<0.01
KM6-A39	132.00-132.20	0.20	<0.0171	<2	0.002	0.003	0.009	<0.01
KM6-A40	134.00-134.20	0.20	<0.0171	<2	<0.001	0.003	0.061	<0.01
KM6-A41	136.00-136.20	0.20	<0.0171	<2	<0.001	0.004	0.014	<0.01
KM6-A42	138.00-138.20	0.20	<0.0171	<2	<0.001	0.004	0.011	<0.01
KM6-A43	148.00-148.20	0.20	<0.0171	<2	<0.001	0.003	0.018	0.14

Appendix 15 Geological Log of Diamond Drill Hole, MJKM-7

MJKM-7 Location : Ribe Altitude : 114.5 m Direction : S75°W Angle : −50° Depth : 150.10 m



Reddish brown to brown sandy silt, partly rich in granule size iron-manganese concretion

10.00 Brown limonite-stained light grey clay, bearing fragments(φ<10cm) of silicified rock, limonitized sandstone and siltstone

15.40 Brown limonite-stained, grey soft weathered siltstone
16.80-17.60m : fault clay
18.90-19.30m : sheared

19.00 Yellowish brown weathered coarse-grained sandstone

20.60 Limonite-stained grey sandy fault clay, showing clear banding

22.80 Yellowish brown weathered, sheared grey calcareous siltstone

26.65 Light brown limonite-stained, grey weathered sandy limestone, intercalating sheared silty layers(5-10 cm thick×5 layers)
28.70-29.70m : dark brown fault clay with limestone fragments

31.20 Partly limonite-stained, dark brown to light grey sandy fault clay

33.40 Light grey sheared siltstone

34.00 Light grey fine-grained sandstone
Pyrite network veinlets(<1mm wide) in core chips

36.50 Light grey to grey sandy fault clay, bearing sandstone fragments(φ<4cm)

38.60 Light grey banded silicified fine-grained sandstone

40.00 Light grey weakly sheared siltstone

41.40 Light grey sheared siltstone, disseminating pyrite

45.20 Dark brown sheared sandy siltstone

45.80 Black sheared friable medium-grained sandstone, disseminating powdery pyrite

46.40 Dark brown sheared sandstone, showing badly sorted sandy siltstone like lithofacies
Pyritization and kaolinization as white tiny spots common
50.30-50.50m : silicified fine-grained sandstone boulder, bearing barite(φ<3mm)-pyrite-kaolin assemblage in cavities

70.90 Black fault zone, consisting of strongly pyritized silty sand

71.80 Dark grey shared silty sandstone
72.9-73.3m : silicified weakly

75.50 Dark grey fault clay, sandy and pyritized

77.00 Dark grey fault zone, consisting of limestone breccias and very calcareous pyritized fault clay
Banding clear partly

80.00 Light grey limy medium-grained sandstone

81.40 Grey to black fault zone, consisting of limy sandstone breccias and very calcareous pyritized fault clay

84.00 Light grey massive limy medium-grained sandstone, bearing siltstone fragments(φ<1cm)

85.80 Black shared siltstone

86.60 Light grey to grey massive limy fine to medium-grained sandstone, badly sorted and intercalating black silty seams
Partly shared or veined by calcite(1-10mm wide)
92.30-92.70m : granule conglomeartic

92.70 Black banded siltstone, bearing limy sandstone breccias(φ<20cm)

94.30 Grey massive calcareous siltstone, lower half sandy

95.90 Black banded siltstone, intercalating calcareous sandstone laminae(1-3cm thick)

96.10

99.60 Black banded siltstone, intercalating calcareous sandstone laminae(<10cm thick)

102.20 Alternation of black banded sandy siltstone and grey silty and limy sandstone, sorted badly and bearing granule size breccias

105.00

107.40

109.30

111.00

112.00

114.40

115.00

115.70

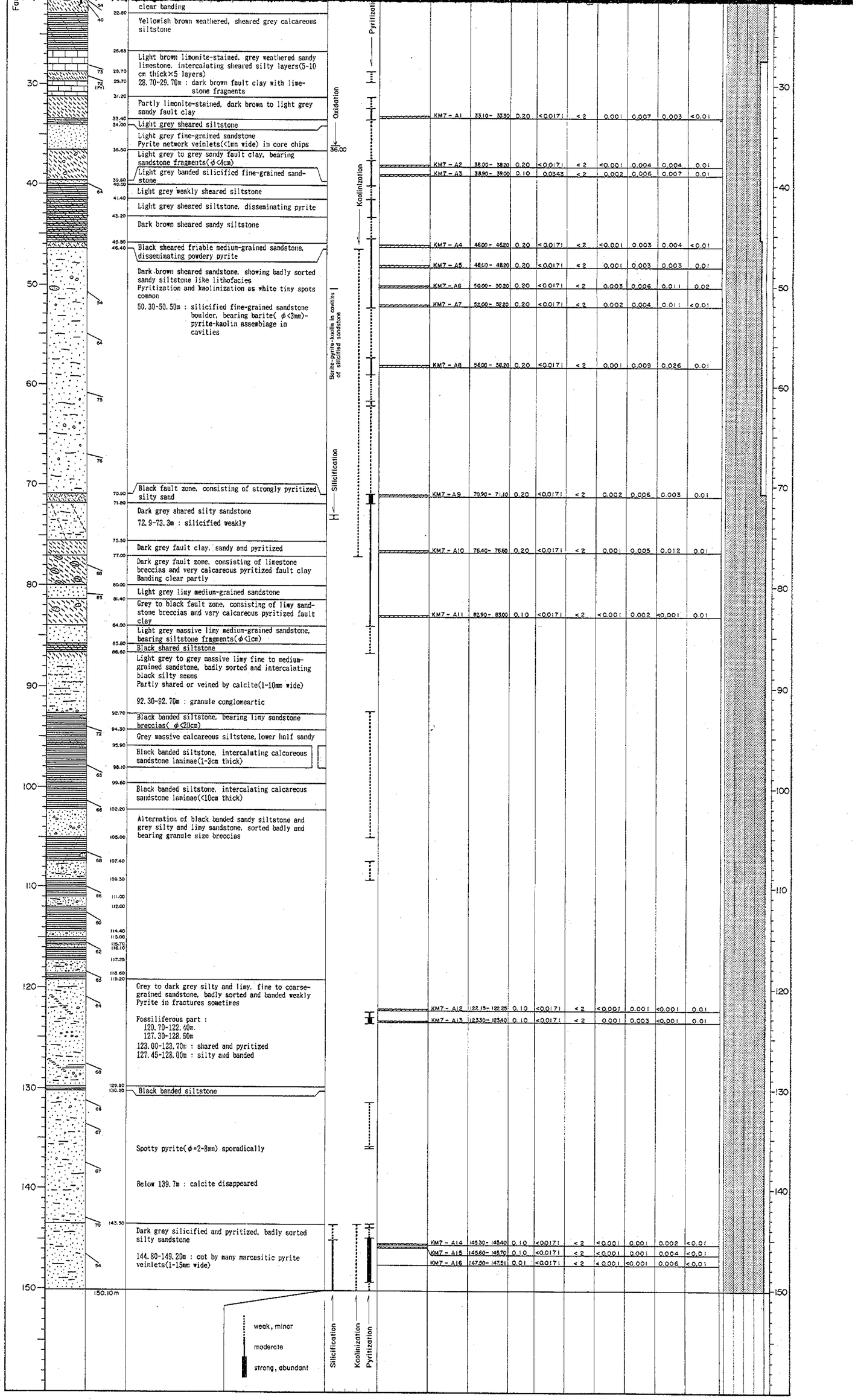
116.10

117.25

118.60

119.20 Grey to dark grey silty and limy, fine to coarse-grained sandstone, badly sorted and banded weakly Pyrite in fractures sometimes

Fossiliferous part :
120.70-122.40m.
127.30-128.60m
123.00-123.70m : sheared and pyritized
127.45-128.00m : silty and banded


clear banding
Yellowish brown weathered, sheared grey calcareous siltstone
Light brown limonite-stained, grey weathered sandy limestone, intercalating sheared silty layers(5-10 cm thick×5 layers)
28.70-29.70m : dark brown fault clay with limestone fragments
Partly limonite-stained, dark brown to light grey sandy fault clay
Light grey sheared siltstone
Light grey fine-grained sandstone
Pyrite network veinlets(<1mm wide) in core chips
Light grey to grey sandy fault clay, bearing sandstone fragments(φ<4cm)
Light grey banded silicified fine-grained sandstone
Light grey weakly sheared siltstone
Light grey sheared siltstone, disseminating pyrite
Dark brown sheared sandy siltstone
Black sheared friable medium-grained sandstone, disseminating powdery pyrite
Dark brown sheared sandstone, showing badly sorted sandy siltstone like lithofacies
Pyritization and kaolinization as white tiny spots common
50.30-50.50m : silicified fine-grained sandstone boulder, bearing barite(φ<3mm)-pyrite-kaolin assemblage in cavities
Black fault zone, consisting of strongly pyritized silty sand
Dark grey shared silty sandstone
72.9-73.3m : silicified weakly
Dark grey fault clay, sandy and pyritized
Dark grey fault zone, consisting of limestone breccias and very calcareous pyritized fault clay
Banding clear partly
Light grey limy medium-grained sandstone
Grey to black fault zone, consisting of limy sandstone breccias and very calcareous pyritized fault clay
Light grey massive limy medium-grained sandstone, bearing siltstone fragments(φ<1cm)
Black shared siltstone
Light grey to grey massive limy fine to medium-grained sandstone, badly sorted and intercalating black silty seams
Partly shared or veined by calcite(1-10mm wide)
92.30-92.70m : granule conglomeartic
Black banded siltstone, bearing limy sandstone breccias(φ<20cm)
Grey massive calcareous siltstone, lower half sandy
Black banded siltstone, intercalating calcareous sandstone laminae(1-3cm thick)
Black banded siltstone, intercalating calcareous sandstone laminae(<10cm thick)
Alternation of black banded sandy siltstone and grey silty and limy sandstone, sorted badly and bearing granule size breccias
Grey to dark grey silty and limy, fine to coarse-grained sandstone, badly sorted and banded weakly
Pyrite in fractures sometimes
Fossiliferous part :
120.70-122.40m
127.30-128.60m
123.00-123.70m : shared and pyritized
127.45-128.00m : silty and banded
Black banded siltstone
Spotty pyrite(φ=2-8mm) sporadically
Below 139.7m : calcite disappeared
Dark grey silicified and pyritized, badly sorted silty sandstone
144.80-149.20m : cut by many marcasitic pyrite veinlets(1-15mm wide)
150.10m
Oxidation
Kaolinization
Skrite-pyrite-kaolin in cavities of silicified sandstone
Silicification
Pyritization
KM7-A1 33.10-33.30 0.20 <0.017 < 2 0.001 0.007 0.003 <0.01
KM7-A2 38.00-38.20 0.20 <0.017 < 2 <0.001 0.004 0.004 0.01
KM7-A3 38.90-39.00 0.10 0.0343 < 2 0.002 0.006 0.007 0.01
KM7-A4 46.00-46.20 0.20 <0.017 < 2 <0.001 0.003 0.004 <0.01
KM7-A5 48.00-48.20 0.20 <0.017 < 2 0.001 0.003 0.003 0.01
KM7-A6 50.00-50.20 0.20 <0.017 < 2 0.003 0.006 0.011 0.02
KM7-A7 52.00-52.20 0.20 <0.017 < 2 0.002 0.004 0.011 <0.01
KM7-A8 58.00-58.20 0.20 <0.017 < 2 0.001 0.009 0.026 0.01
KM7-A9 70.90-71.10 0.20 <0.017 < 2 0.002 0.006 0.003 0.01
KM7-A10 76.40-76.60 0.20 <0.017 < 2 0.001 0.005 0.012 0.01
KM7-A11 82.90-83.00 0.10 <0.017 < 2 <0.001 0.002 <0.001 0.01
KM7-A12 122.15-122.25 0.10 <0.017 < 2 <0.001 0.001 <0.001 0.01
KM7-A13 123.30-123.40 0.10 <0.017 < 2 0.001 0.003 <0.001 0.01
KM7-A14 145.30-145.40 0.10 <0.017 < 2 <0.001 0.001 0.002 <0.01
KM7-A15 145.60-145.70 0.10 <0.017 < 2 <0.001 0.001 0.004 <0.01
KM7-A16 147.50-147.61 0.01 <0.017 < 2 <0.001 <0.001 0.006 <0.01
weak, minor
moderate
strong, abundant
Silicification
Kaolinization
Pyritization

Appendix 16 Geological Log of Diamond Drill Hole, MJKM-8

MJKM-8

Location : Mkangombe North　Altitude : 218.0m　Direction : N63°W　Angle : −65°　Depth : 100.65m

SCALE (m)	GEOLOGIC COLUMN	DEPTH AND CORE ANGLE (°) (m)	DESCRIPTION	ALTERATION AND MINERALIZATION	POSITION OF EXAMINED CORE SAMPLES	ASSAY RESULTS: Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Ba (%)	CORE RECOVERY (%)	SCALE (m)
0	Majl-ya-Chumvi Formation	2.00	Pale brown sandy silt, bearing fragments of weathered mudstone												0 50 100	0
		8.00	Dark olive weathered mudstone 2.7-3.5m : shered	Oxidation 9.0												
10		76 78 74 74	Dark grey fresh banded mudstone, easy to be broken along joint or lamina planes Very thin calcite veinlets(<1mm wide) common													10
20		68 74 72 70														20
30		68	29.55-35.2m : calcite veinlets relatively poor													30
		62	33.7-34.3m : relatively massive													
40		68 68 68 68	stable rock facies													40
50		70 72 76	intercalating light grey very fine-grained sandstone laminae(0.5-5cm thick) 54.80-54.83m : fault breccia	Quartz veinlets (w≦1mm)												50
60		66 60.15 64 63.30	60.15-63.30m : sheared 63.30-67.20m : sheared strongly													60
		66.10 66.40 62 67.20	Dark brown massive sphalerite vein, bearing little quartz pyrite and mudstone fragments(<10% volume), width about 24cm	Sphalerite vein												
70		68.85 64	Dark grey banded sandy mudstone, intercalating very fine-grained sandstone laminae(0.1-2cm thick) commonly Calcite veinlets(0.1-3cm wide) common	Pyrite veinlets zone (w=1~5 mm)												70
		66 73.40 74.30 62	67.20-68.85m : sheared 73.40-74.30m : brecciation + calcite network veins													
			74.38m : sphalerite-calcite vein, accompanying by very little pyrite and chalcopyrite, 2.5cm wide, sphalerite(φ=1-10mm)×10 grains	Sphalerite calcite vein		KMB-A1	66.10-66.40	0.30	<0.017	4	0.028	0.007	39.1	0.01		
80		76 68 81.60 82.10 65.00	79.40-82.15m : rich in calcite veinlets 81.60-82.10m : brecciation + calcite network veins			KMB-A2	74.38-74.41	0.03	<0.017	<2	0.007	0.001	4.41	<0.01		80
		68	Grey banded very fine to fine-grained sandstone, intercalating black thin siltstone laminae													
90		68 64 66 64 62	84.70-bottom : poor in calcite veinlets													90
100		100.65m														100

weak, minor
moderate
strong, abundant

Appendix 17 Geological Log of Diamond Drill Hole, MJKM-9

MJKM-9

Location : Mkangombe North　Altitude : 214.0m　Direction : N63°W　Angle : −65°　Depth : 100.50m

Sample No.	Depth (m)	Width (m)	Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Ba (%)
KM9-A1	60.51-60.62	0.11	<0.017	< 2	0.034	0.002	0.090	<0.01
KM9-A2	60.62-60.69	0.07	<0.017	< 2	0.024	0.002	11.60	<0.01
KM9-A3	60.69-60.71	0.02	<0.017	8	0.049	0.004	40.3	<0.01
KM9-A6	60.80-60.90	0.10	<0.017	< 2	0.003	0.001	0.300	0.01
KM9-A4	61.39-61.52	0.13	<0.017	< 2	0.330	0.001	0.220	0.01
KM9-A5	61.52-61.65	0.13	<0.017	< 2	0.072	0.002	0.800	0.01

Maji-ya-Chumvi Formation

0.50 Pale brown sandy silt, bearing fragments of weathered mudstone

Dark olive weathered mudstone

5.25 Oxidation

5.50 Dark grey fresh banded mudstone
Very thin calcite veinlets(<1mm wide) common in joint planes

Light grey calcareous fine-grained sandstone seams (0.5-10cm thick) itercalated sporadically

25.50-26.60m : reratively massive
28.50-29.60m : ditto

33.80-34.00m : weakly brecciated and veined by calcite network veinlets

Calcite veinlets(1-2mm wide) and network veinlets (<1mm wide) common

Below 43.70m : weak brecciation and networked veining of calcite common

49.00 49.30-49.70m : veined by networked calcite, 1-15mm wide

50.40 49.00-50.40m : intercalating green calcareous fine-grained sandstone seams(1-11cm thick)

54.50 50.40-50.55m : fault, mostly filled by thick calcite vein

54.50-59.80m : brecciated and veined by quartz and calcite network veinlets(<1mm wide)

59.80 Strongly sheared and brecciated mudstone, hosting ore veins, silicification common

60.31 (Chalcopyrite)-sphalerite-quartz vein, 16cm wide

61.39 Chalcopyrite-quartz vein, 21cm wide

61.65

63.00 Dark grey banded sandy mudstone, intercalating very fine-grained sandstone laminae(0.1-1cm thick)

66.20 63.00-66.20m : brecciated partly

71.95-72.40m : pyrite ±quartz veinlets(<2mm wide)
72.06-72.20m : quartz network veinlets(1-10mm wide bearing minor chalcopyrite(φ<1mm)

72.65 72.65-74.00m : brecciated partly

74.00 Below 74.00m : calcite veinlets common

Gradual change

80.30 Grey thinly banded very fine to fine-grained sandstone, intercalating many black thin mud laminae F laggy or fissile along lamina planes in parts

Calcite veinlets(<1mm wide) poor

Below 95.00m : calcite veinlets rare

100.60m

Brecciation ± quartz-calcite networked veinning

Chalcopyrite-sphalerite-quartz vein

Silicification

Pyrite veinlets zone (1 mm± wide)

Chalcopyrite-quartz vein

Chalcopyrite-quartz vein

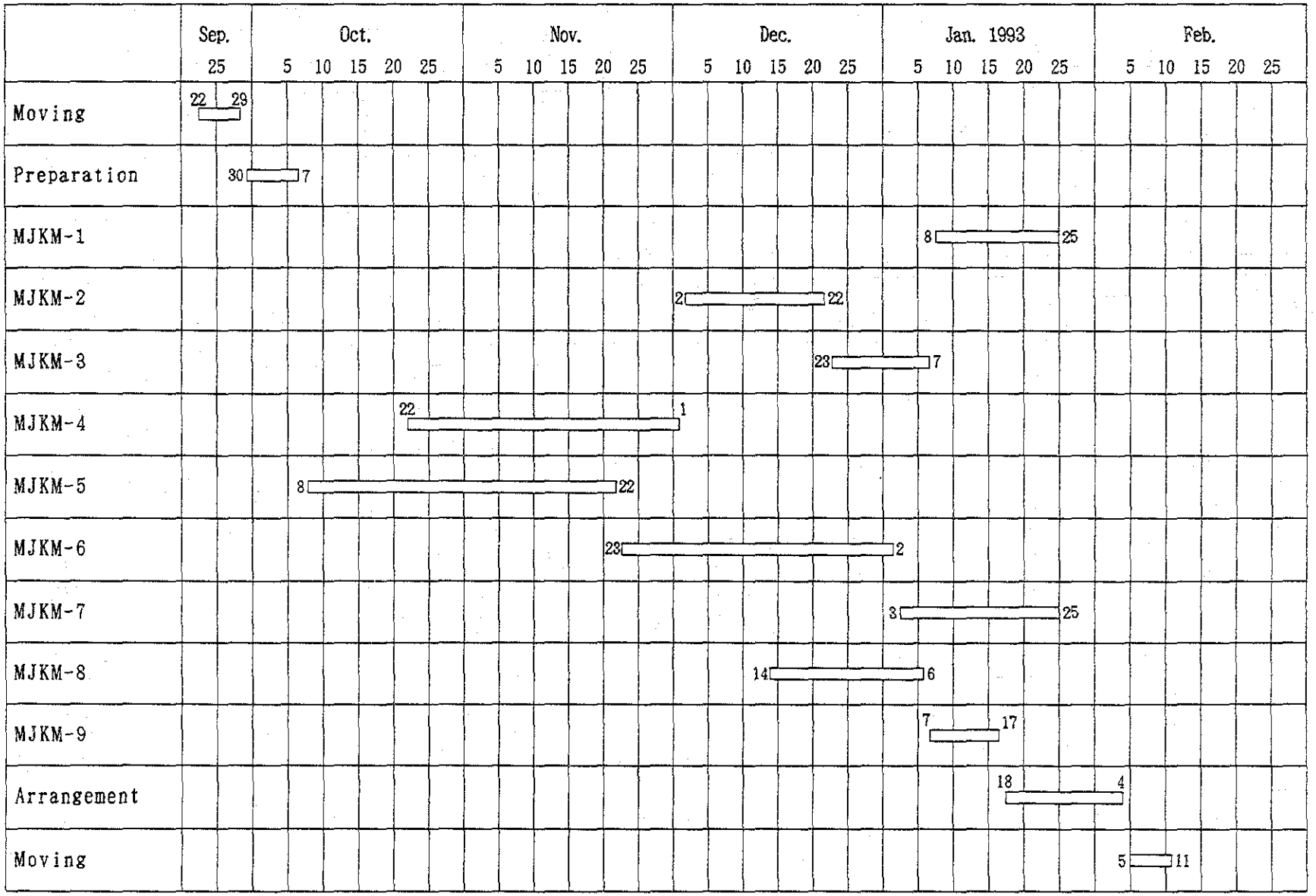
Pyrite ± kaolin veinlets zone

weak, minor

moderate

strong, abundant

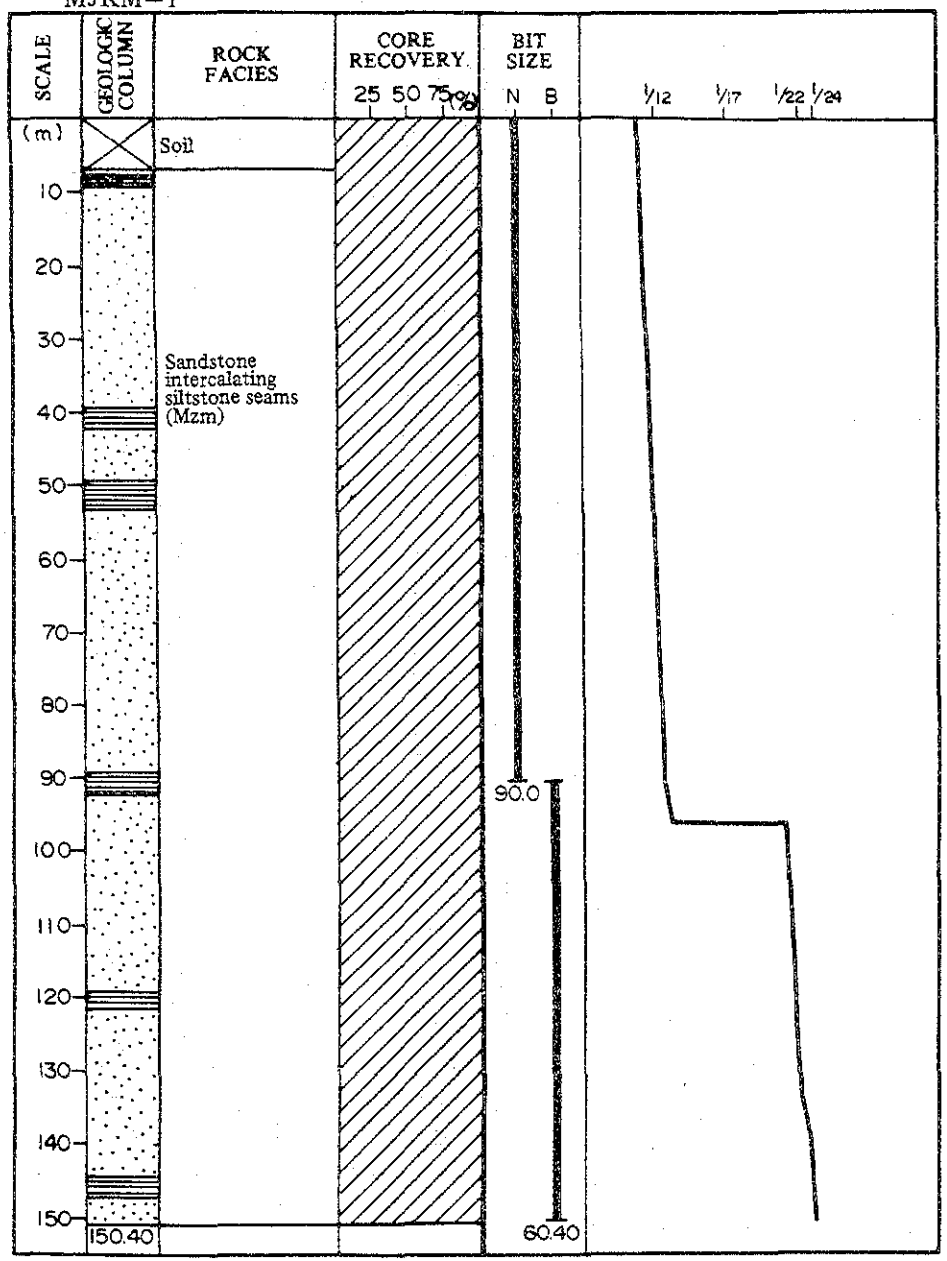
Appendix. 18 Progress of Dilling Survey

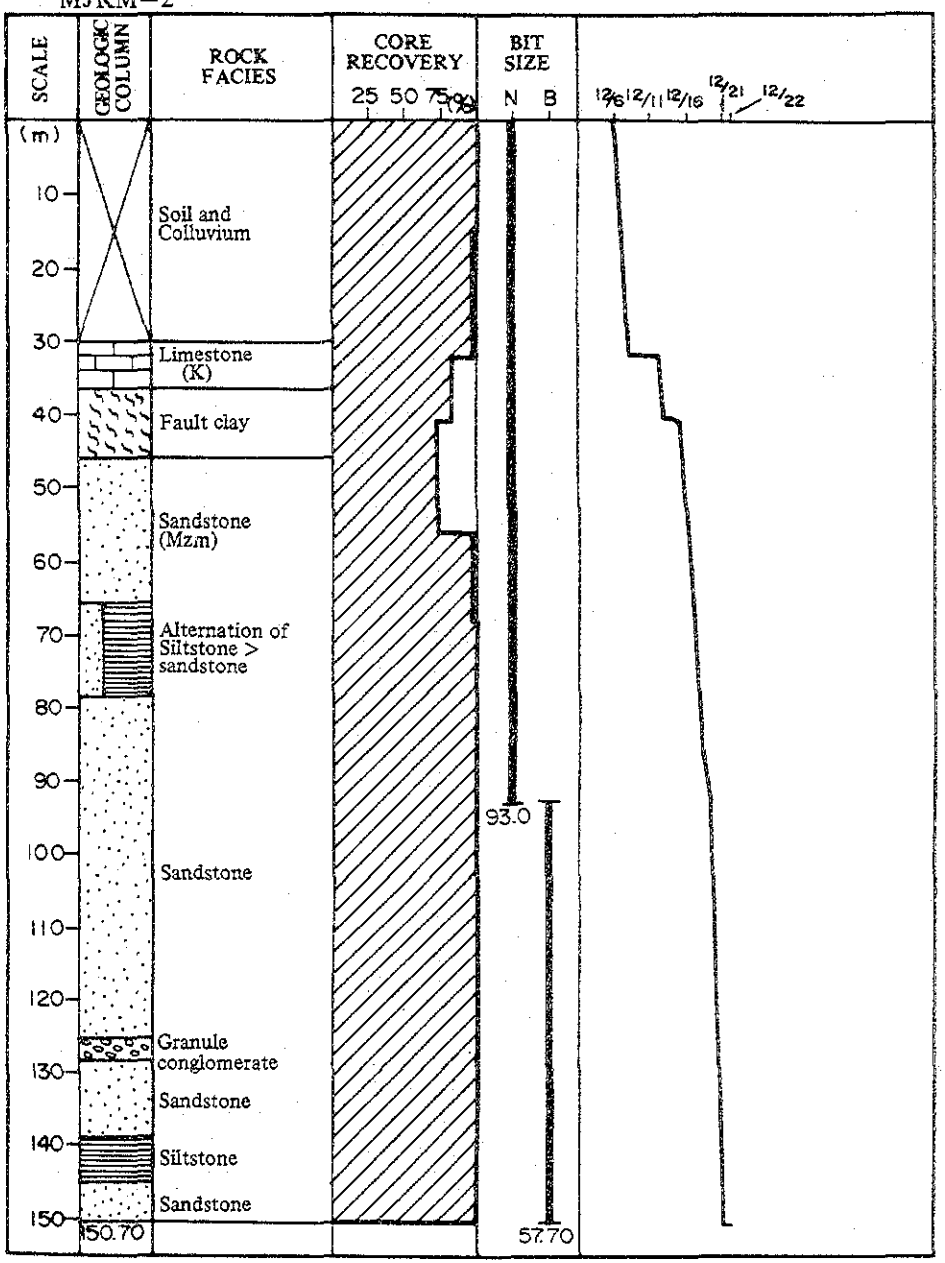


APPENDIX 19 SUMMARY OF DRILLING RESULTS

Item		Drilling hole No.	MJKM-1	MJKM-2	MJKM-3	MJKM-4	MJKM-5	MJKM-6	MJKM-7	MJKM-8	MJKM-9	Mobiligation & Demobilization	Total
Drilling Deta	Drilling length	(m)	150.40	150.70	150.30	152.20	150.50	150.10	150.10	100.65	100.60		1255.55
	Core length	(m)	150.40	143.40	136.90	144.20	136.00	135.60	144.10	100.40	100.60		1191.60
	Core recovery	(%)	100.00	95.20	91.10	95.80	90.30	90.30	96.00	99.80	100.00		94.9
	Depth by NQ size	(m)	90.00	93.00	63.10	58.40	5.00	89.70	75.30	69.70	66.60		617.30
	do. BQ size	(m)	60.40	57.70	81.20	93.80	145.50	60.40	74.30	30.95	34.00		638.25
	Casing pipe NW	(m)	8.70	29.20	37.10	7.30	36.00	18.00	27.00	1.50	1.50		166.30
	do. BW	(m)	88.80	92.90	63.10	135.00	78.20	97.00	75.80	69.00	69.00		774.70
	Drilling machine		THS-5	THS-5	THS-5	THS-5	THS-5.L-38	L-38	L-38	YBM-3ES	YBM-3ES		
Working Period	Working Period d e		1.8-1.25	12.2-12.22	12.23-1.7	10.22-12.1	10.8-11.22	11.23-1.2	1.8-1.25	12.14-1.6	1.7-1.17	[illegible]	
	Actual Working	(d)	18	21	16	41	46	41	23	24	11	33	274
	No Working	(d)	0	0	0	0	0	0	0	0	0	0	0
	Total	(d)	18	21	16	41	46	41	23	24	11	33	274
	Actual Working Days: Mouning	(d)	3	5	2	10	2	1	2	4	0	0	29
	Actual Working Days: Drilling	(d)(shifts)	8(14)	10(18)	10(16)	15(25)	13(21)	20(33)	13(23)	15(15)	11(11)		115(176)
	Actual Working Days: Dismounting	(d)	1	1	2	2	1	3	1	1	0		12
	Actual Working Days: Others	(d)	6	6	2	14	30	17	7	4	0		86
	Actual Working Days: Total	(d)	18	21	16	41	46	41	23	24	11		241
	Drilling length/ Working Period	(m/d)	8.36	7.18	9.40	3.72	3.30	3.66	6.53	4.20	9.15		5.21
	Drilling length/ days	(m/d)	8.36	7.18	15.03	10.20	11.60	7.51	11.55	6.70	9.15		10.92
	Drilling length	(m/s)	10.74	8.37	9.40	6.10	7.20	4.55	6.53	6.70	9.15		7.13
Working Time	Drilling	(h)	90	94	96	116	102	155	130	89	87		959
	Hoisting & lowering rod etc.	(h)	21	165	39	72	126	133	54	39	32		681
	Repairing	(h)	58	13	18	44	66	168	67	0	0		523
	Sub total	(h)	169	272	153	232	294	456	251	128	119	89	2163
	Mounting	(h)	27	47	18	90	18	9	18	36	0	89	327
	Dismounting	(h)	9	9	18	18	9	27	9	9	0	64	138
	Others	(h)	1	63	18	29	138	30	86	18	0	30	443
	Total	(h)	206	391	207	369	459	522	314	191	119	110	3071
	Drilling length/ Drilling hour	(m/h)	1.67	1.60	1.57	1.31	1.48	0.97	1.15	0.53	1.16	293	1.31
Total Number of Workers	Driller		34	42	32	90	128	82	46	24	17	130	625
	Counterport driller		40	44	43	90	92	82	88	48	34	70	631
	Labor		40	42	46	90	92	84	88	46	22	249	799
	Pump operater		54	63	48	123	138	174	108	24	11	120	863
	Gardman		54	63	48	123	138	174	108	72	33	120	933
	Labor for access construction		118	136	103	120	77	49	22	27	3	270	925
	Total		340	390	320	636	685	645	460	241	120	959	4776
	Total drilling workers/ Drilling length	(m/m)	2.26	2.59	2.13	4.17	4.42	4.30	3.06	2.40	1.19		3.80

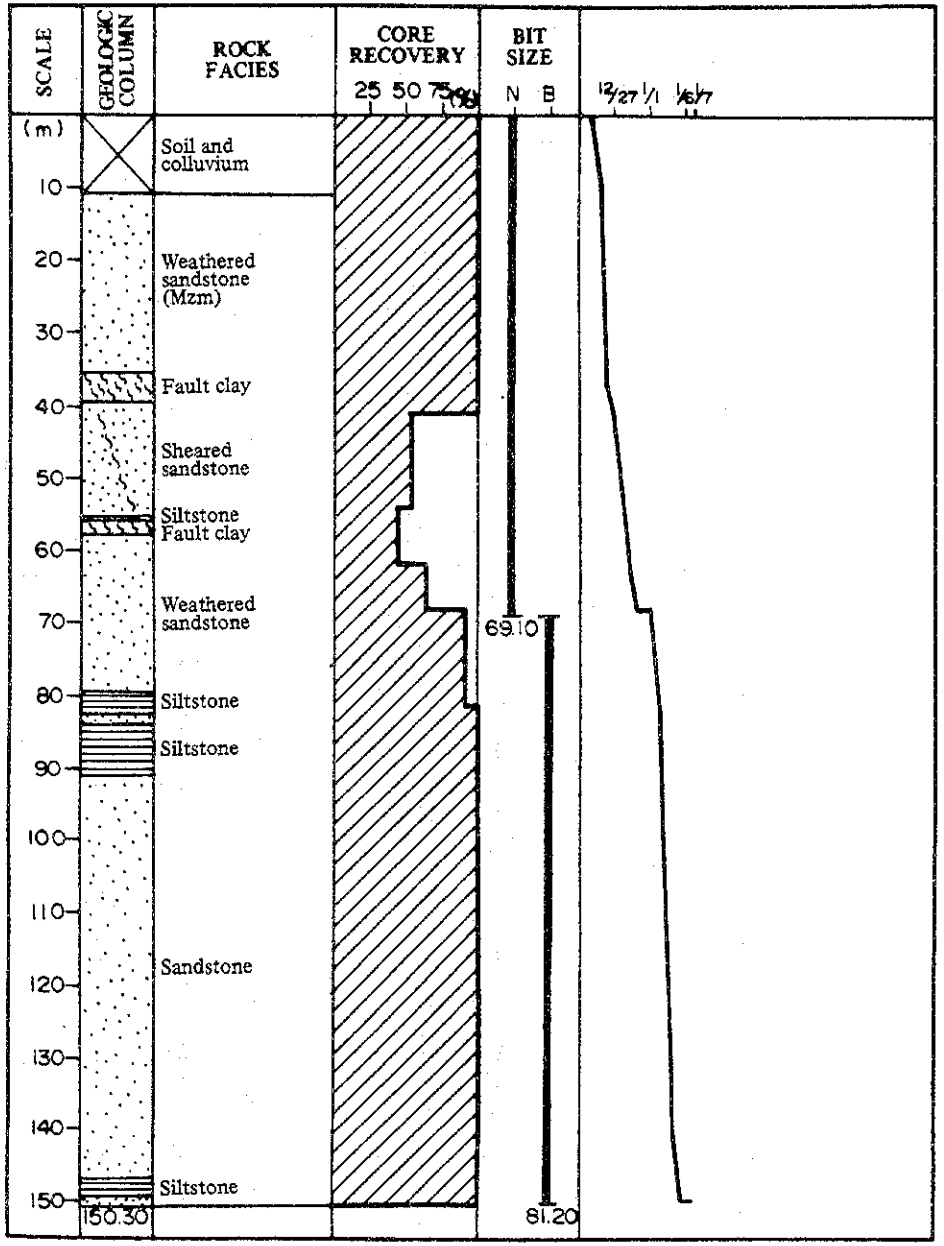
APPENDIX 20 DRILLING PROGRESS BY HOLE (1)



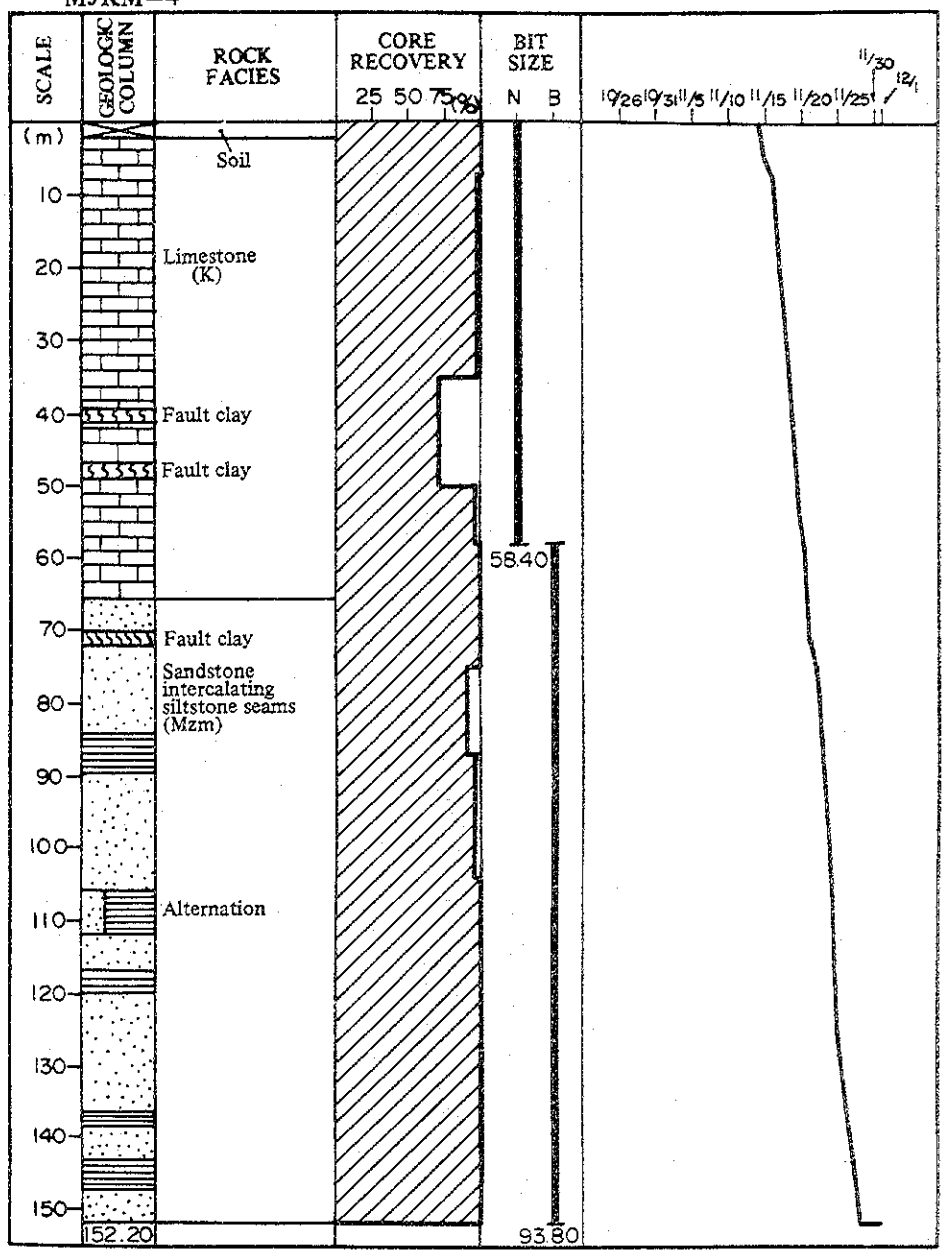


APPENDIX 20 DRILLING PROGRESS BY HOLE (2)

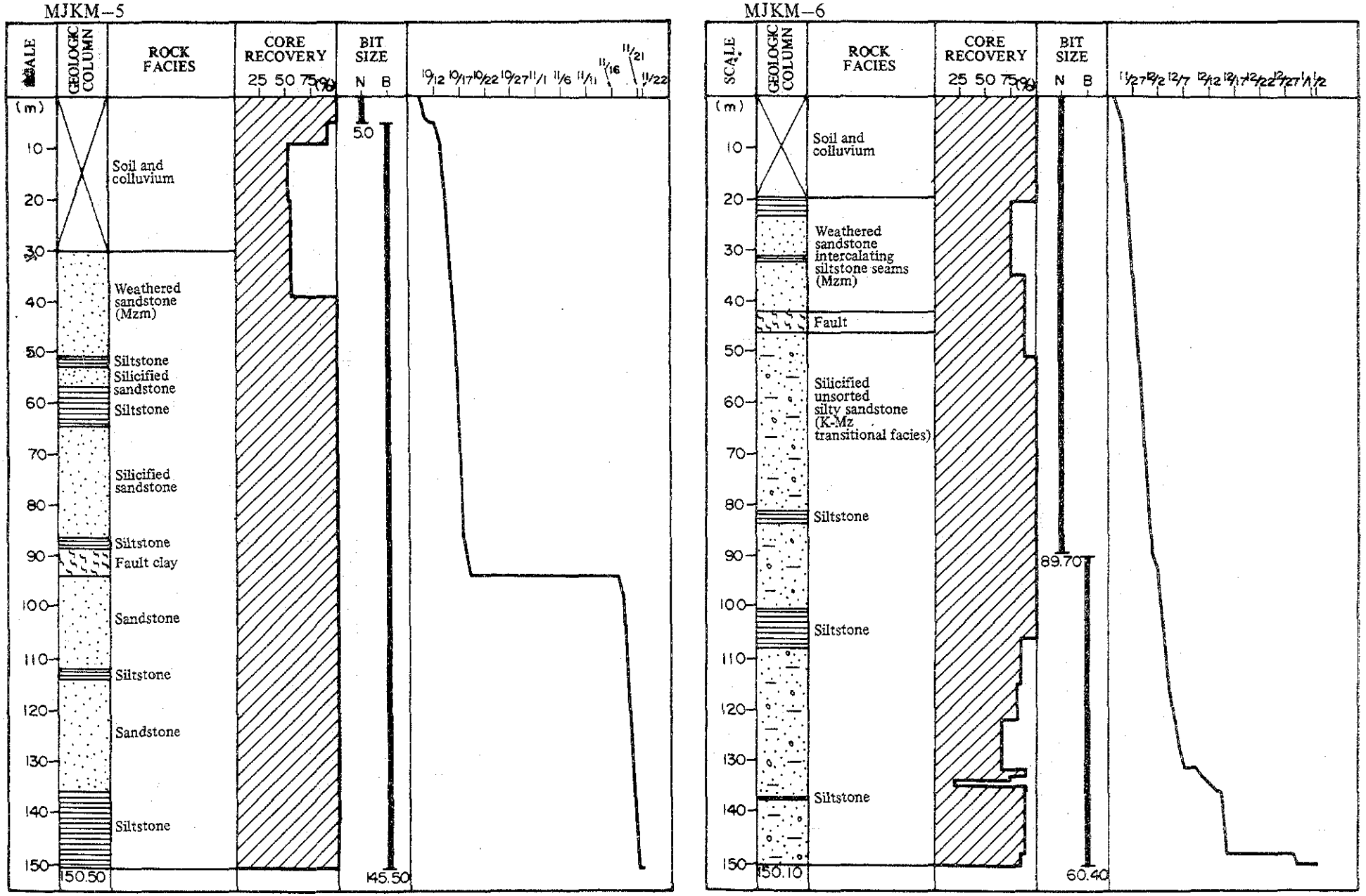
MJKM–3



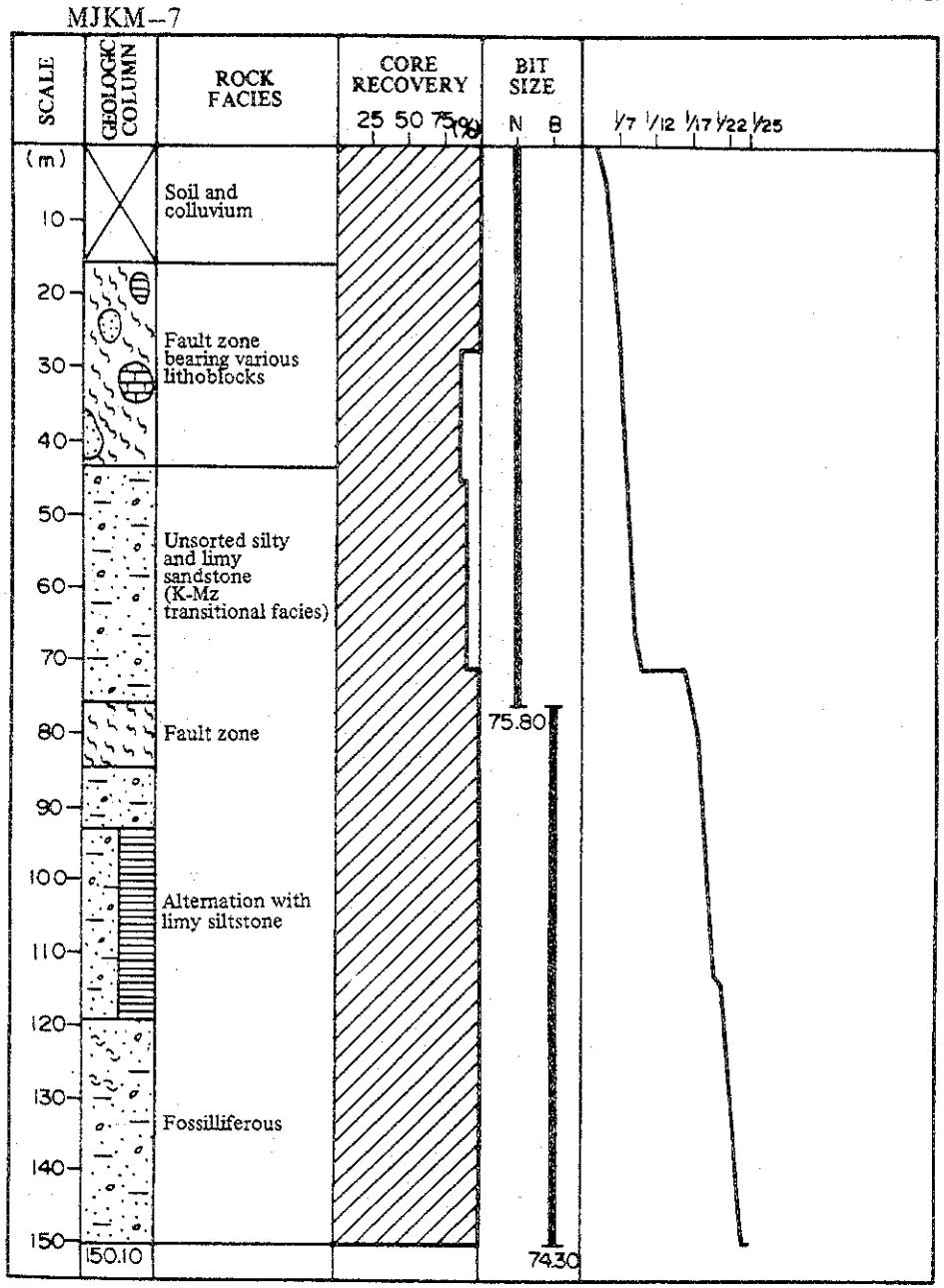
MJKM–4

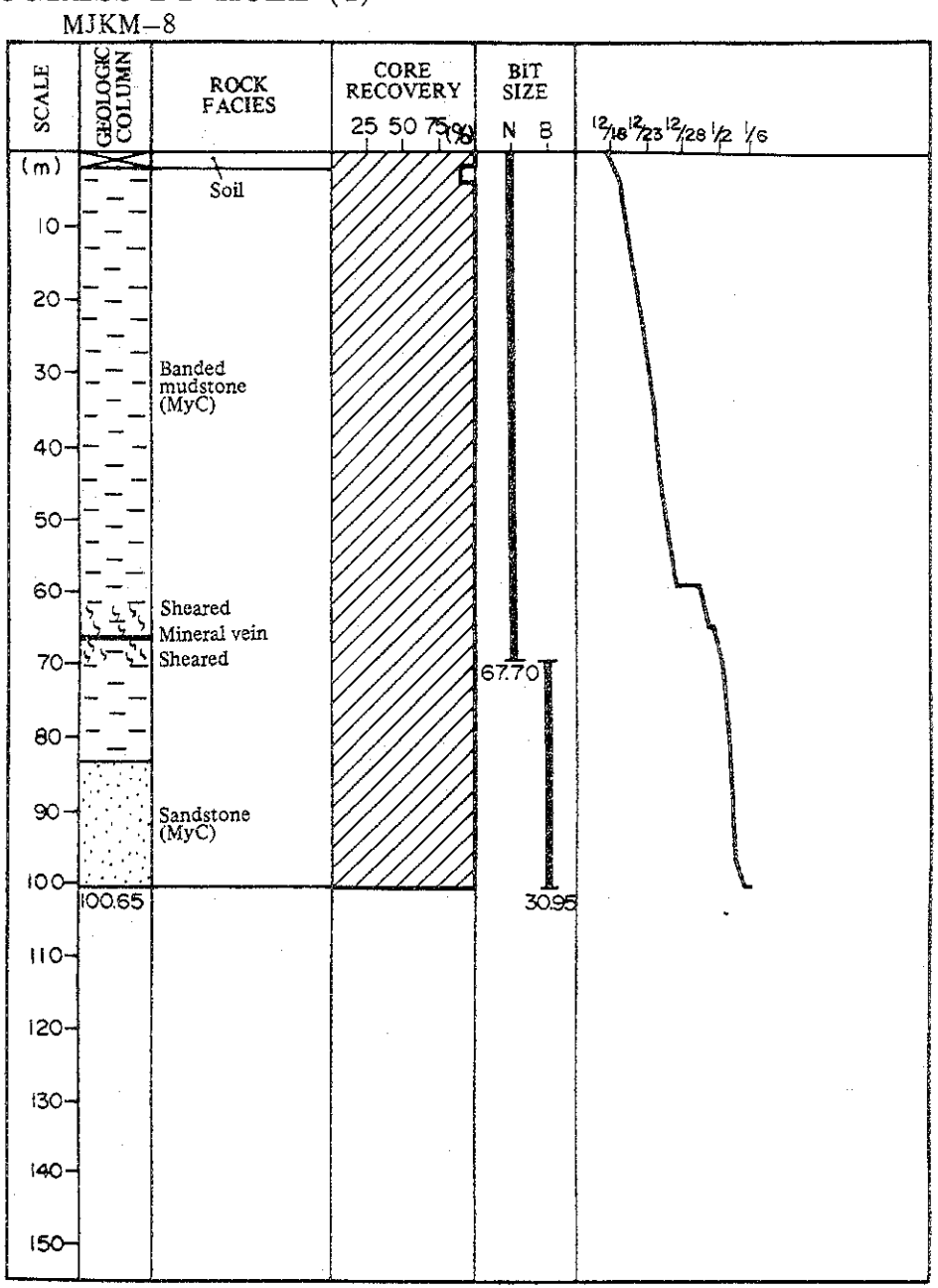


APPENDIX 20 DRILLING PROGRESS BY HOLE (3)



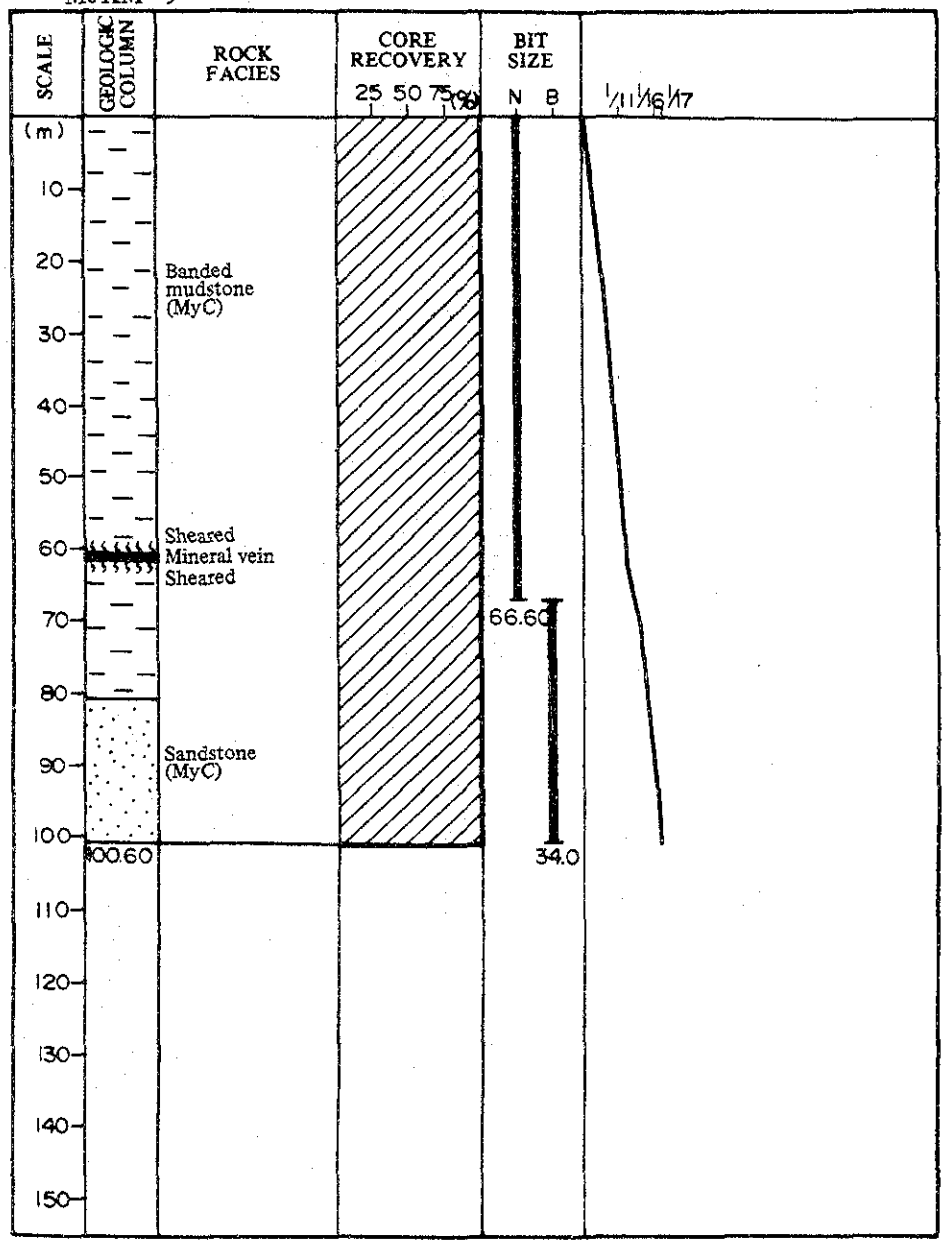
APPENDIX 20 DRILLING PROGRESS BY HOLE (4)





APPENDIX 20 DRILLING PROGRESS BY HOLE (5)

MJKM–9



Appendix 21 Drilling Equipments

Article	Model	Specification	Quantity
Drilling machine		Capacity:BQWL 725m Inner diameter of spindle:98.4mm Spindle speed :172,357,653,1105r.p.m Weight:1200kg	1 set
Motor	F4L912 (MITSUI-DEUTZ)	Diesel engine: Revolution:3,600r.p.m Related power:59.6ps	
Drilling machine	THS-5 (TONE BORING)	Capacity:BQWL 290m Inner diameter of spindle:80mm Spindle speed :125,250,500r.p.m Weight:950kg	1 set
Motor	F2L912 (MITSUI-DEUTZ)	Diesel engine: Revolution:2,500r.p.m Related power:30ps	1 set
Drilling pump	YBM-3ES (YOSHIDA BORING)	Capacity:BQWL 240m Inner diameter of spindle:93mm Spindle speed :125,250,500,750r.p.m Weight:650kg	1 set
Motor	NF-110EK (YANMAR DIESEL)	Diesel engine: Revolution:2,400r.p.m Related power:11ps	1 set
Drilling pump	NAS-3B (TONE BORING)	Type:2 piston Capacity(max):130/min Pressure(max): 26kg/cm2	1 set
Motor	NS-90C (YANMAR DIESEL)	Diesel engine: Revolution:2,400r.p.m Related power:9ps	1 set
Drilling pump	NES-100 (TONE BORING)	Type:2 piston Capacity(max):100/min Pressure(max): 30kg/cm2	1 set
Motor	NF-90K (YANMAR DIESEL)	Diesel engine: Revolution:2,400r.p.m Related power:9ps	1 set
Water supply pump	MS-703 (DELTA ALAT)	Type:2 piston Capacity(max): 80/min Pressure(max): 40kg/cm2	1 set
Motor	E-70N (KUBOTA)	Diesel engine: Revolution:3 000r.p.m Related power:7ps	1 set
Wire line hoist	For THS	Attached to drilling machine 300m	1 set
Derrick	DRP-6	Pipe structual derrick 6.0m	2 sets
Generator	EB1500X (HONDA)	Gasoline engine :1.5kVA	2 sets
Drill rod	Wire line rod	NQWL x 3m BQWL x 3m	150 pcs 200 pcs
Water tank		$2m^3$	6 sets
Water supply pipe		25mm polyvinyl pipes	1800 m

Appendix 22 Amount of Consumed Materials and Diamond Bits

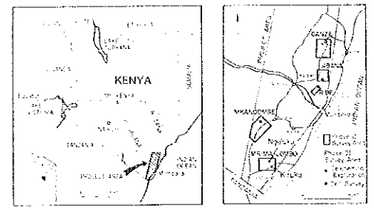
Article	Unit	MJKM-1	MJKM-2	MJKM-3	MJKM-4	MJKM-5	MJKM-6	MJKM-7	MJKM-8	MJKM-9	Total
Diamond bit(NQ)	pcs	2	3	2	1	1	5	4	3	2	23
do. (BQ)	pcs	2	2	2	2	2	9	2	2	1	24
Diamond reaming shell (NQ)	pcs	2	2	2	1	1	2	3	2	1	16
do. (BQ)	pcs	2	1	2	3	2	4	1	1	1	17
Metal crown(NW)	pcs								1	1	2
Core lifter(NQ)	pcs	6	6	4	2	4	6	1	2	2	44
do. (BQ)	pcs	4	2	3	4	2	12	12	2	2	35
Core lifter case (NQ)	pcs	4	4	2	2	2	2	2	2	2	22
do. (BQ)	pcs	4	2	2	2	2	2	2	2	2	20
Core Box(NQ)	pcs	22	21	19	21	19	19	20	15	14	170
Cutting Oil (Detergent powder)	Dz	60	100	85	135	45	160	95	110	47	837
Disel	Dz	160	280	200	240	260	900	550	340	200	3130
Gasoline	Dz	70	100	60	80	100	500	220	60	40	1230
Engine Oil	Dz	5	5	2	2	6	15	10	4	5	54
Grease	kg	6	3	10	8	5	10	7	5	6	60

PL. 1

MINERAL EXPLORATION
IN
THE MOMBASA AREA, REPUBLIC OF KENYA
PHASE III

GEOLOGICAL MAP AND SECTIONS OF THE KIRUKU HILL AND NGULUKU HILL SUB-AREA

LOCATION INDEX

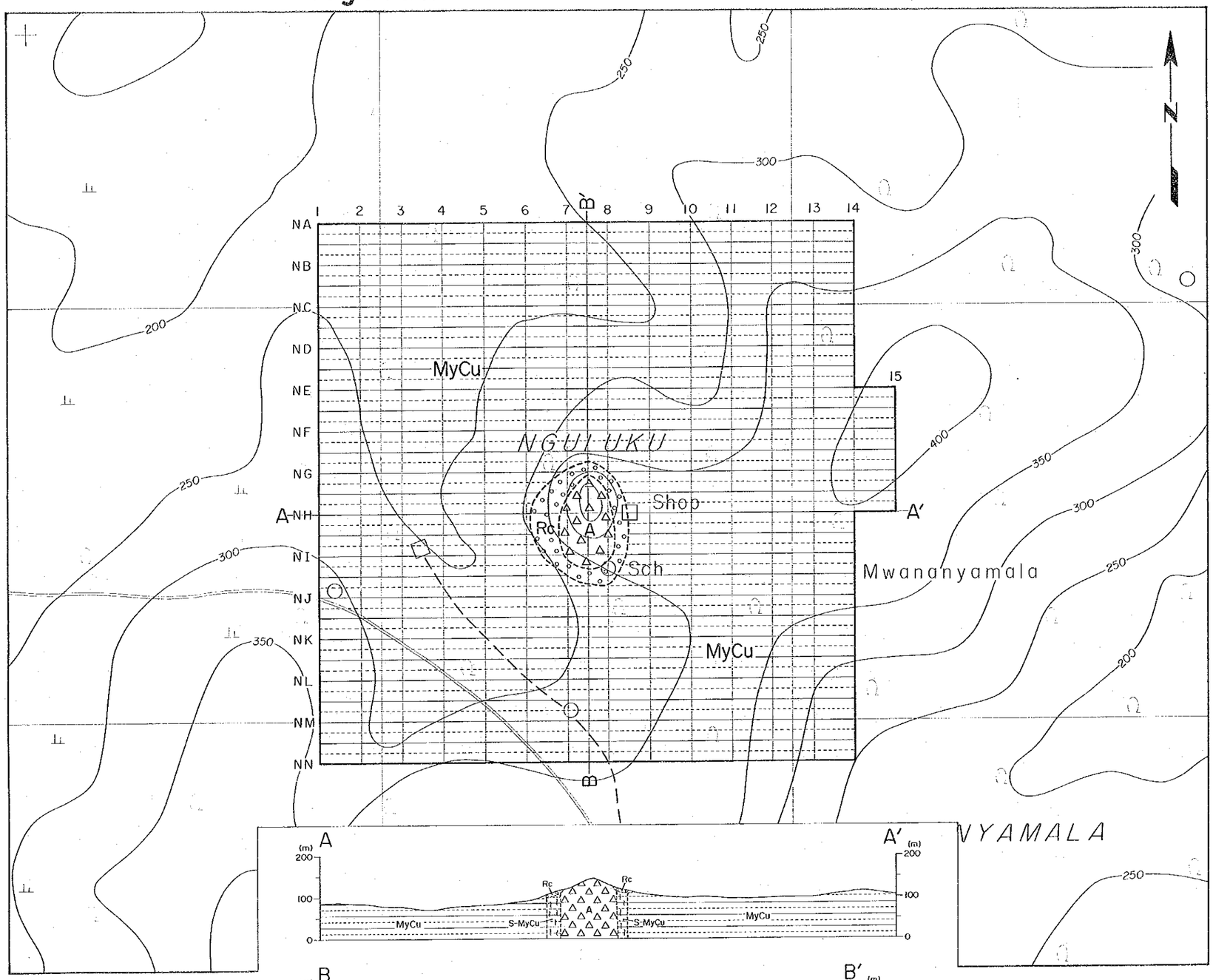


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
February 1993

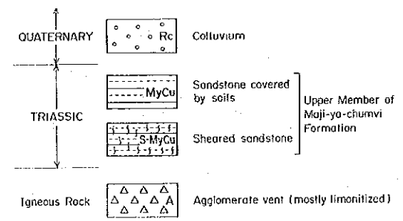
Scale 1 : 5,000

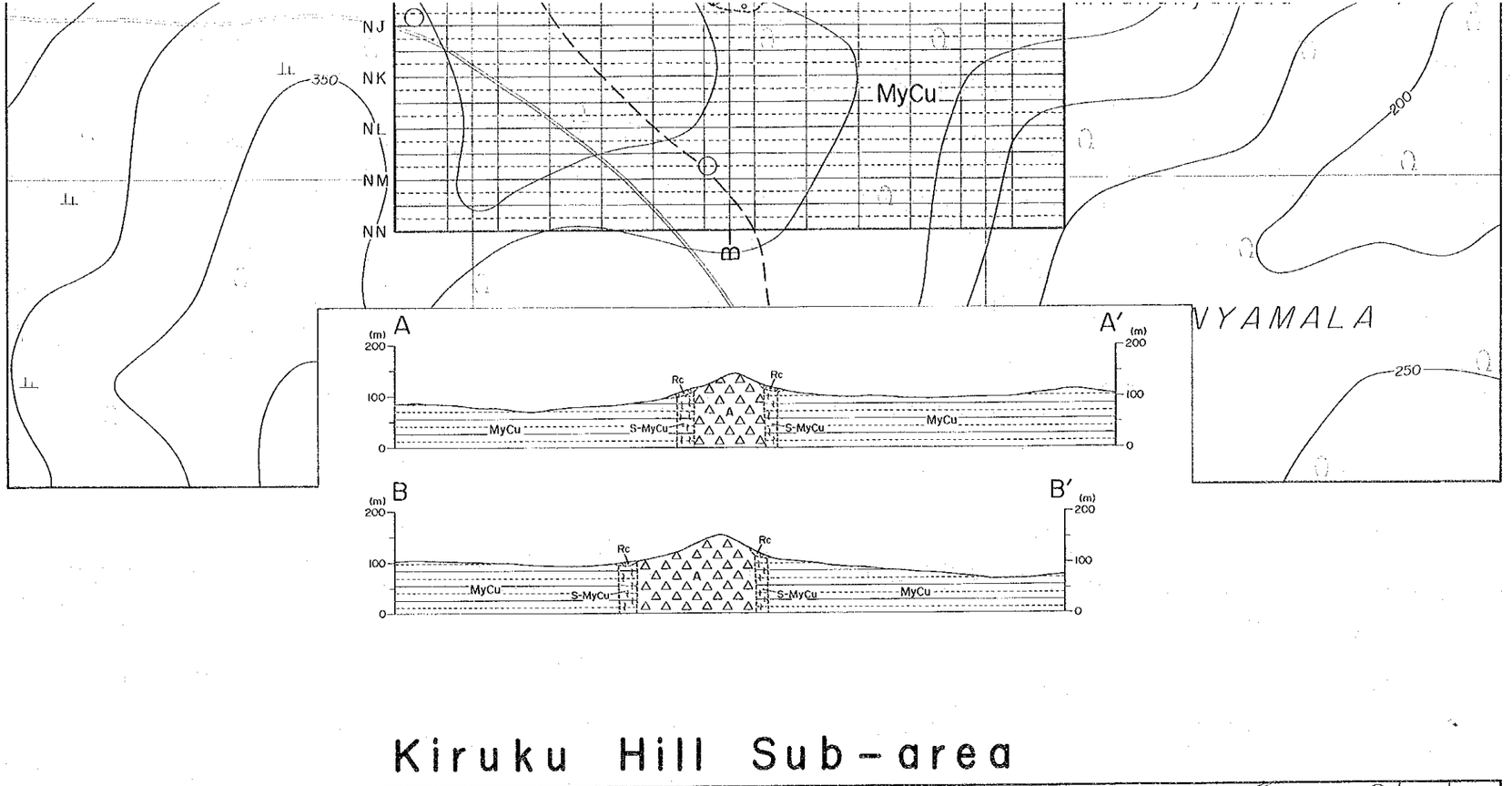
0 100 200 300 400 500m

Ngululu Hill Sub-area

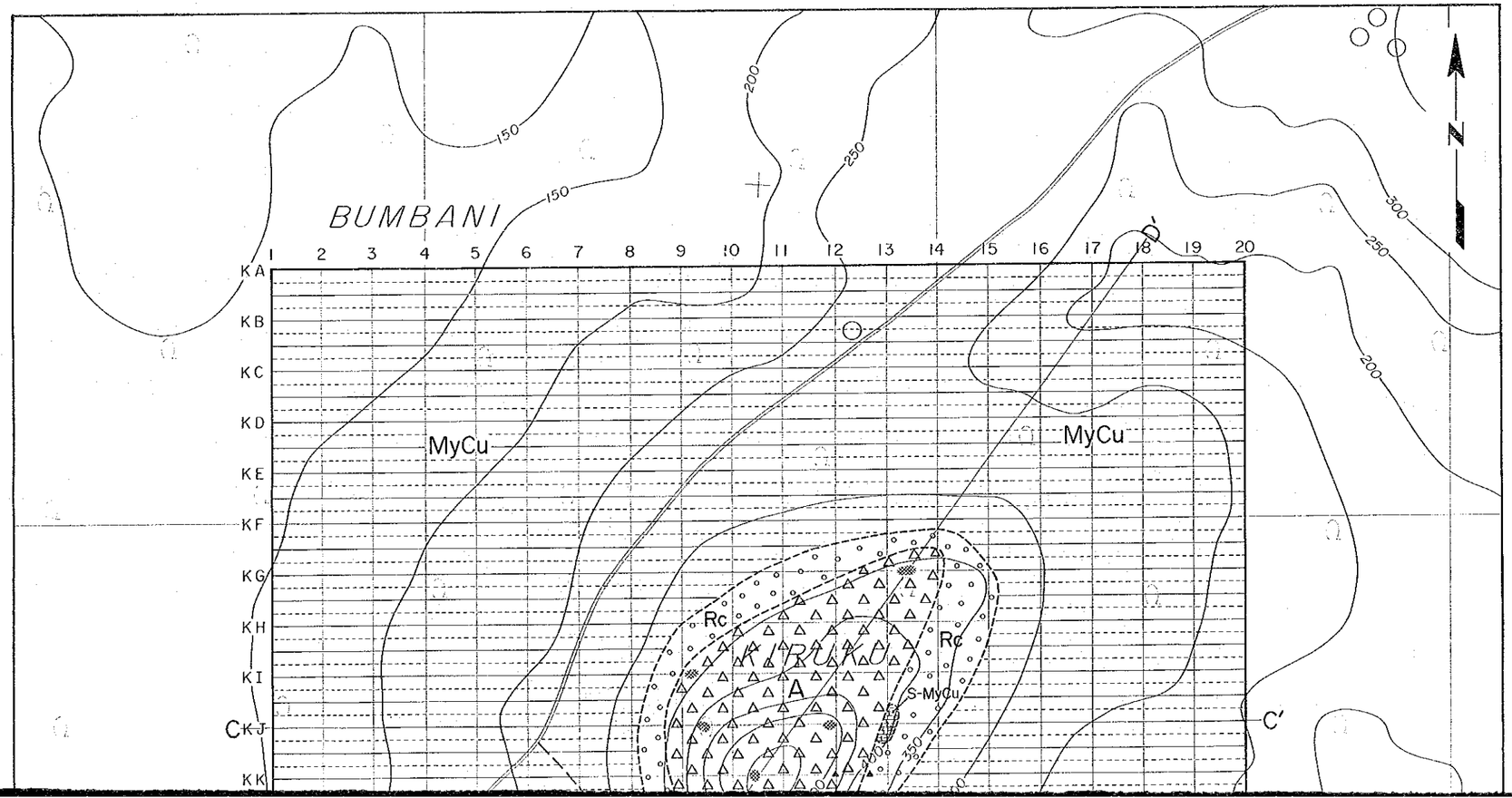


LEGEND





Kiruku Hill Sub-area



LEGEND

- QUATERNARY — Rc — Colluvium
- TRIASSIC — MyCu — Sandstone covered by soils
- TRIASSIC — S-MyCu — Sheared sandstone
- (MyCu and S-MyCu: Upper Member of Moji-ya-chumvi Formation)
- Igneous Rock — Agglomerate vent (mostly limonitized)
- Strongly silicified rock (outcrop/float)
- Geological boundary
- A——A′ Line of geological section

BOMBANI

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

KA KB KC KD KE KF KG KH KI KJ KK KL KM KN KO KP KQ KR KS KT

MyCu

MyCu

MyCu

MyCu

Rc

Rc

KIRUKU

A

S-MyCu

S-MyCu

350

300

250

200

150

C

C'

D

D'

Disp

Staff Camp

Stores

NZILOLE

C

C'

(m) 200 100 0

Rc Rc

A

MyCu S-MyCu S-MyCu MyCu

D

D'

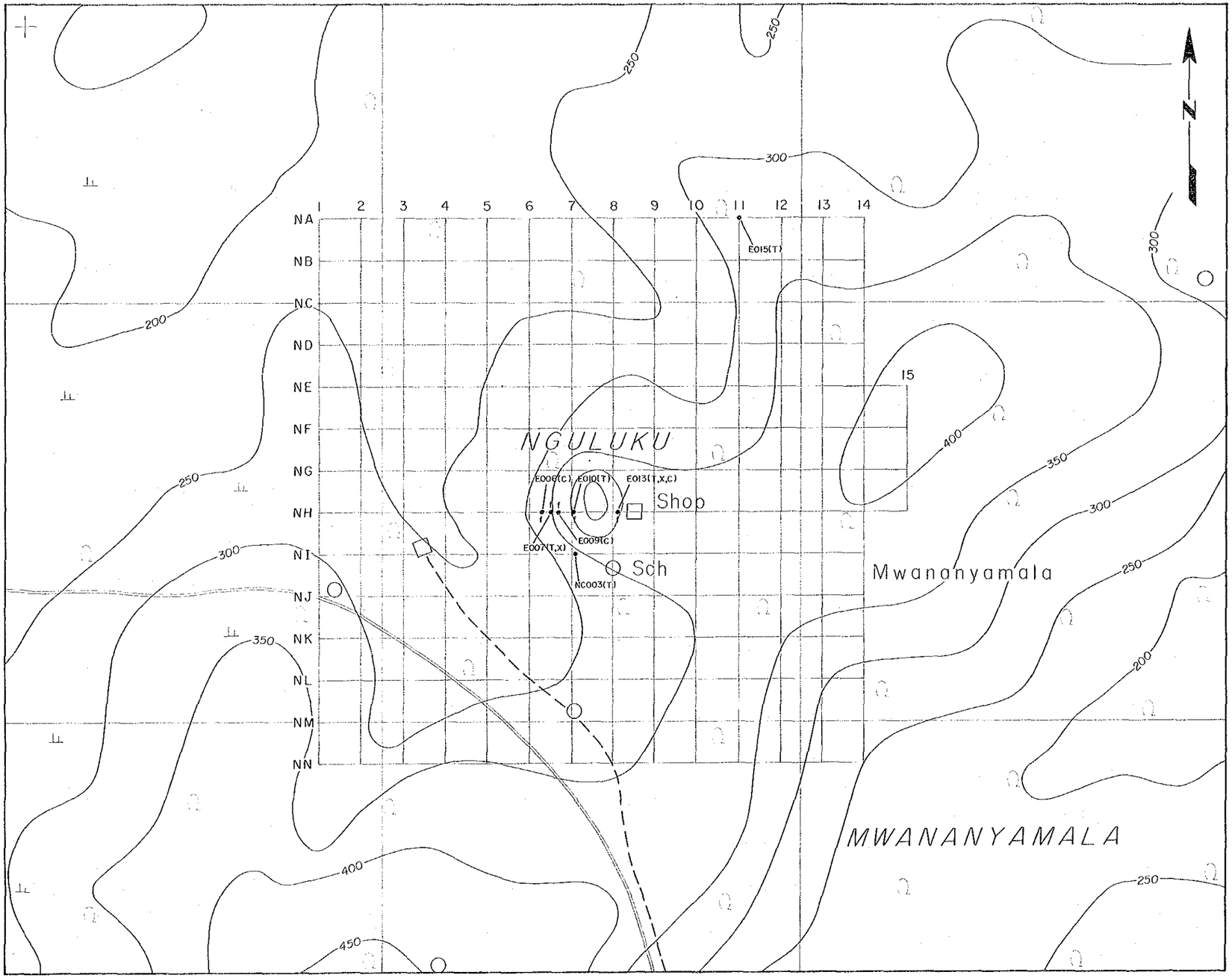
(m) 200 100 0

Rc Rc

A

MyCu S-MyCu S-MyCu MyCu

Nguluku Hill Sub-area

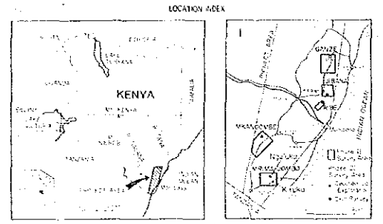


PL. 2

MINERAL EXPLORATION
IN
THE MOMBASA AREA, REPUBLIC OF KENYA
PHASE III

LOCATION MAP OF TESTED SAMPLES IN THE KIRUKU HILL AND NGULUKU HILL SUB-AREA

LOCATION AREA



JAPAN INTERNATIONAL COOPERATION AGENCY
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February 1993

Scale 1 : 5,000

0 100 200 300 400 500m

LEGEND

NA 1 2 3
NB
NC

Soil samples
(Sampling points are indicated by intersection of two survey lines and sample numbers are indicated by the combination of the survey lines'number as NA-1 , NB-2.)

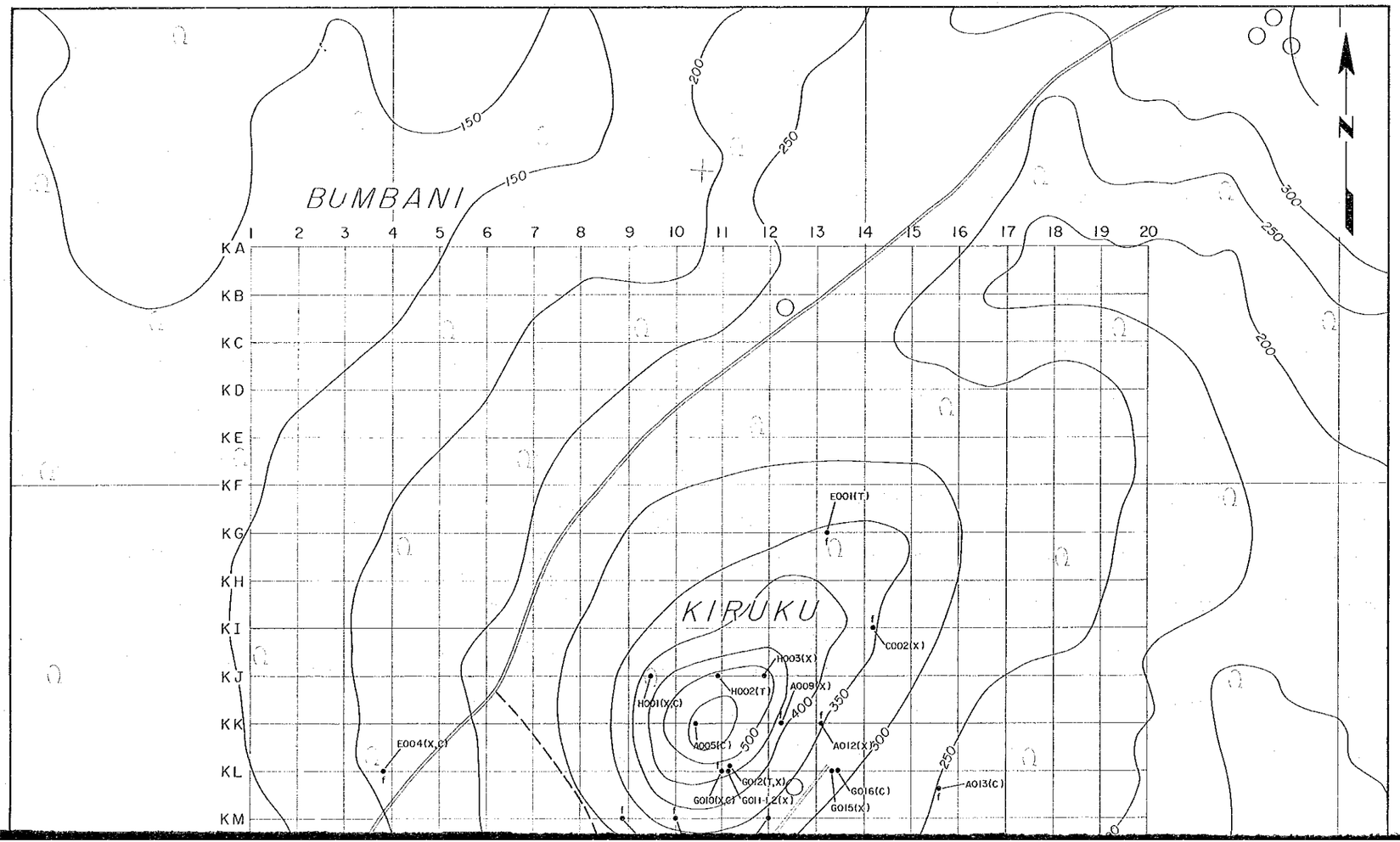
- Rock and ore samples for laboratory tests

NL
NM
NN

400
450
250

MWANANYAMALA

Kiruku Hill Sub-area

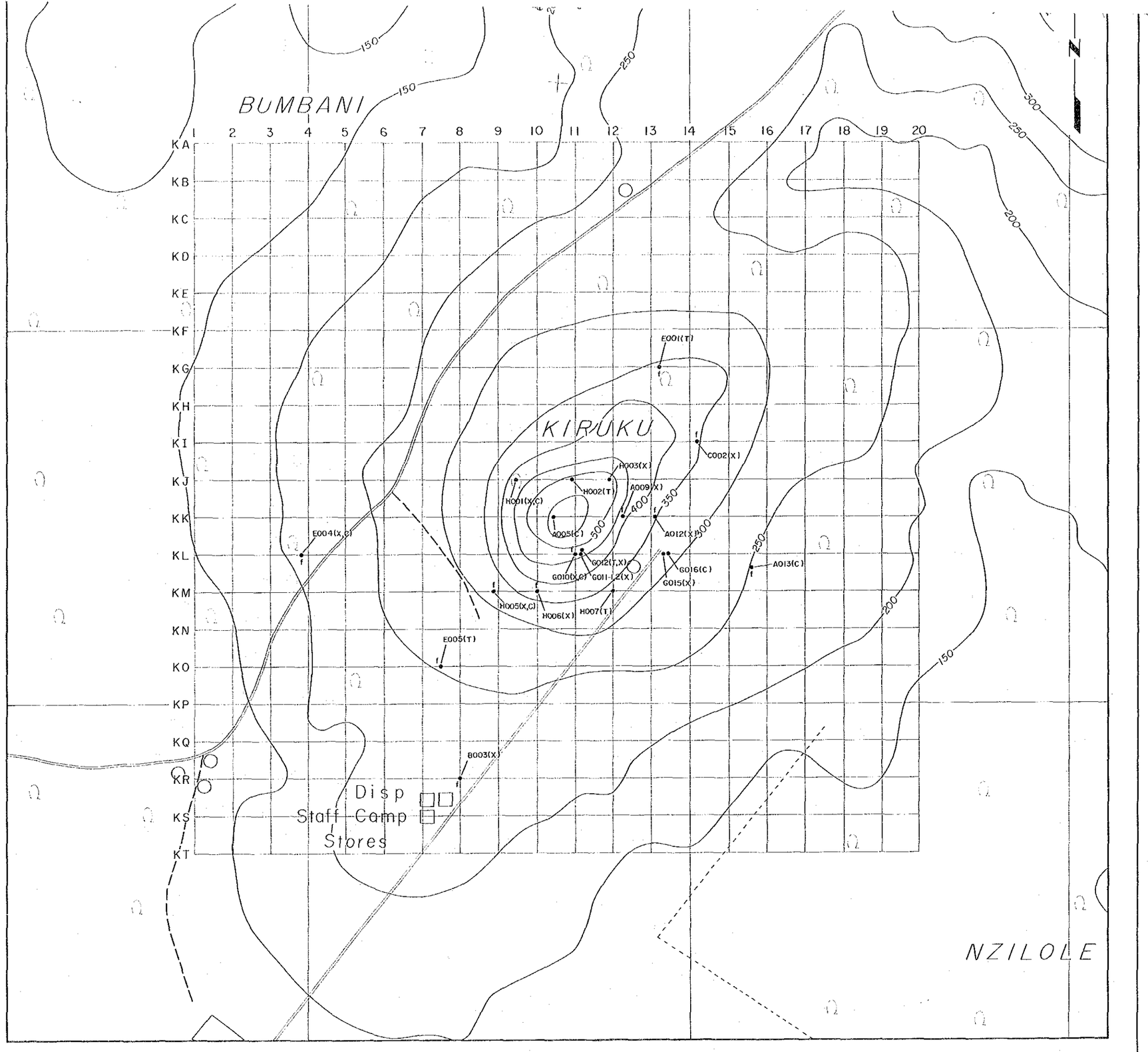


LEGEND

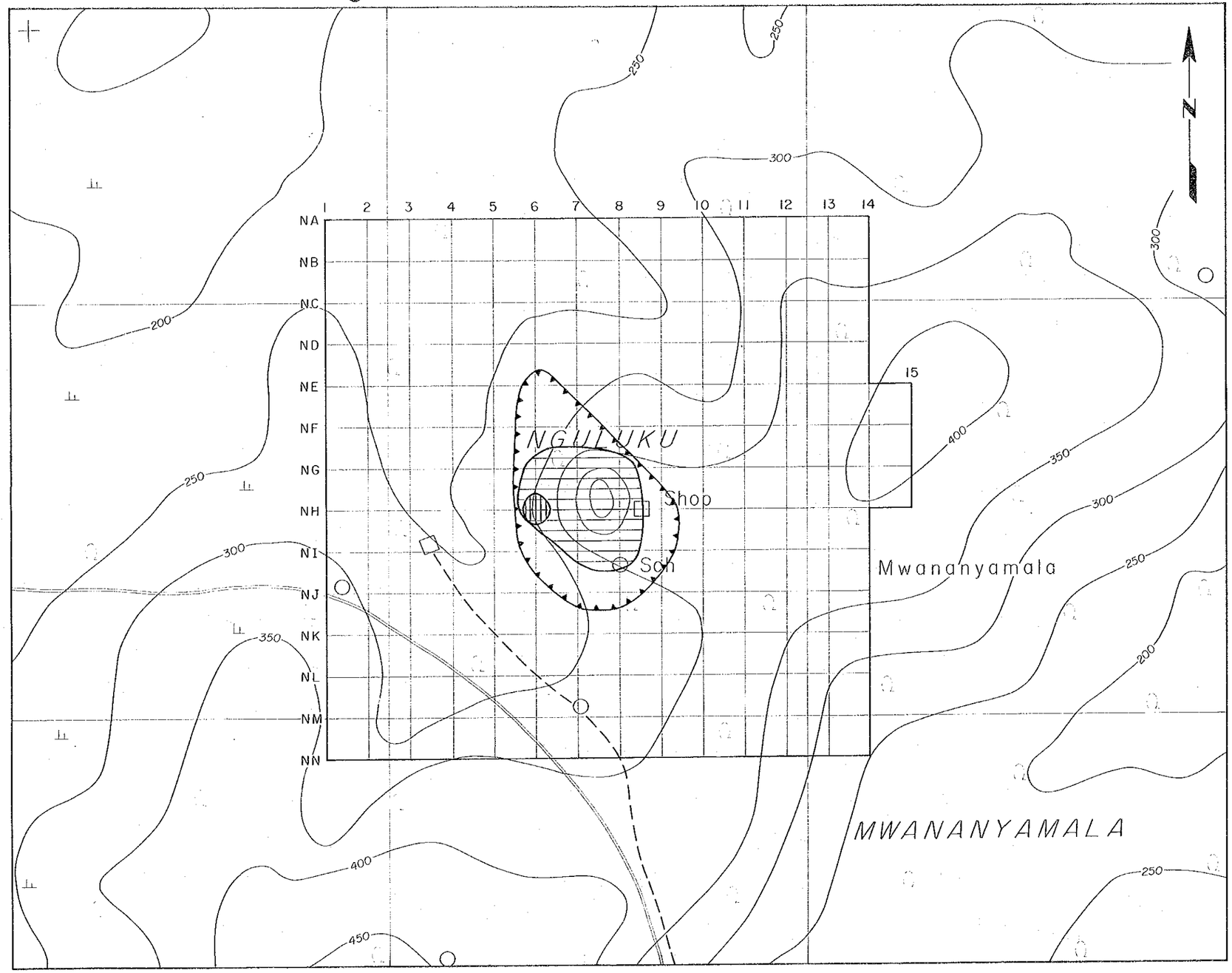
NA NB NC / 1 2 3

Soil samples
(Sampling points are indicated by intersection of two survey lines and sample numbers are indicated by the combination of the survey lines'number as NA-1, NB-2.)

- Rock and ore samples for laboratory tests
  - T : for thin section
  - X : for XRD analysis
  - C : for chemical analysis
- f float sample


BUMBANI
KIRUKU
NZILOLE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
KA KB KC KD KE KF KG KH KI KJ KK KL KM KN KO KP KQ KR KS KT
150
250
300
200
350
400
500
E001(T)
C002(X)
H003(X)
H002(T)
H001(X,C)
A009(X)
A005(C)
A012(X)
E004(X,C)
G012(T,X)
G010(X,C)
G011-12(X)
G016(C)
G015(X)
A013(C)
H005(X,C)
H006(X)
H007(T)
E005(T)
B003(X)
Disp
Staff Camp
Stores

Nguluku Hill Sub-area

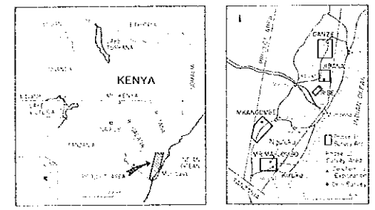


PL. 3

MINERAL EXPLORATION
IN
THE MOMBASA AREA, REPUBLIC OF KENYA
PHASE III

GEOCHEMICAL INTERPRETATION MAP OF THE KIRUKU HILL AND NGULUKU HILL SUB-AREA (1)
- Au, Ba, Sr, Fe, Mn, P -

LOCATION INDEX



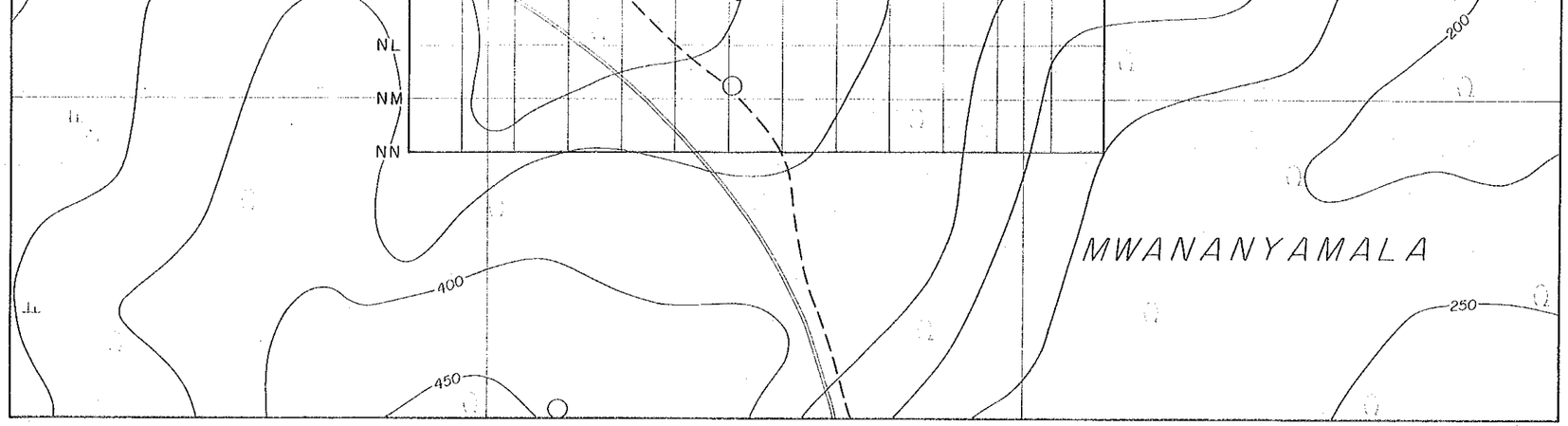
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
February 1993

Scale 1 : 5,000

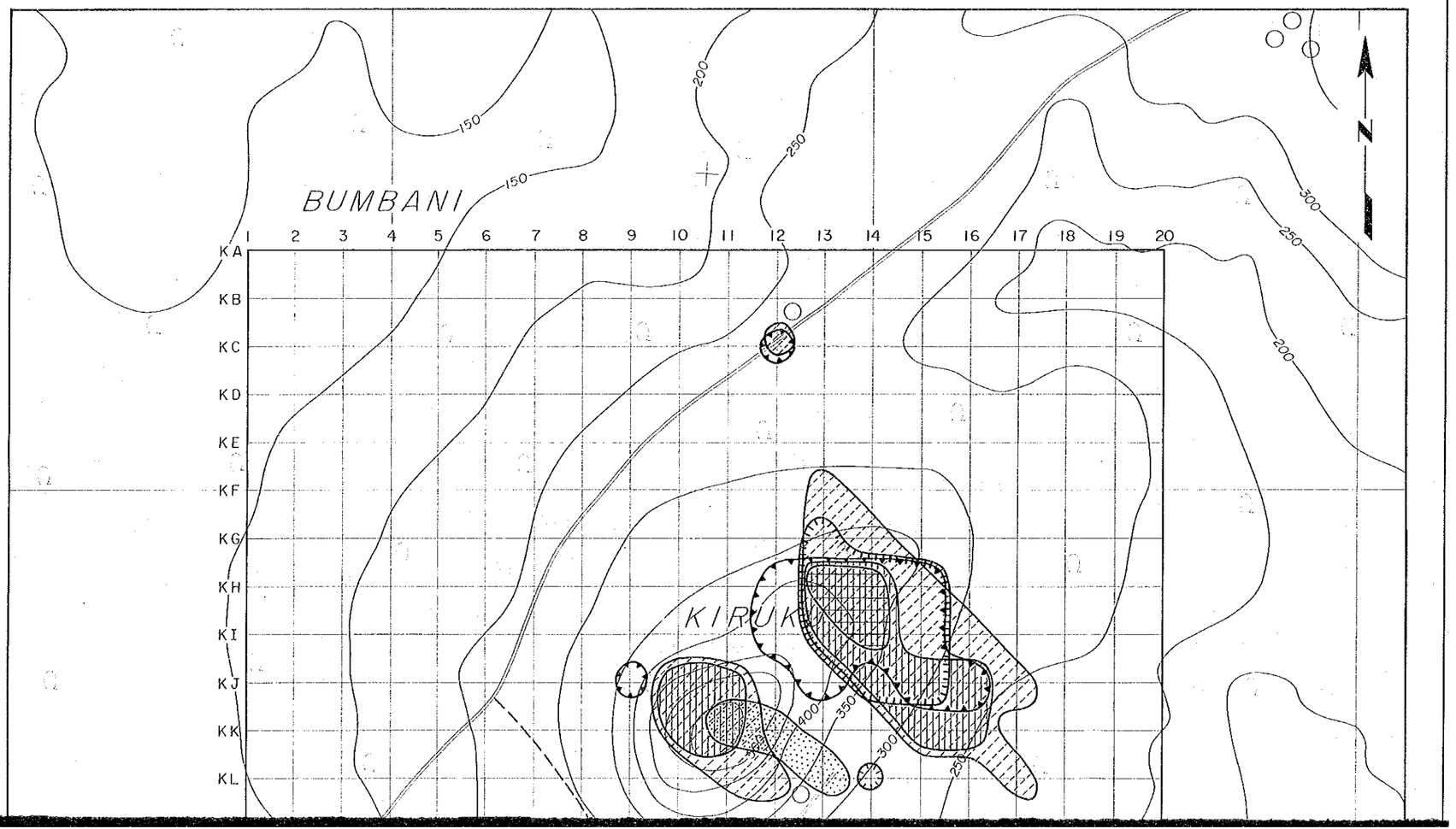
0 100 200 300 400 500m

LEGEND

Element	Anomaly	Threshold Value	Maximum Value (Sample No.)
Au		≧ 50 ppb	160 ppb (KL-13)
Ba		≧ 5100 ppm	9970ppm (KH-14)
Sr		≧ 480 ppm	1430ppm (KI-15)
Fe		≧ 9.2 %	13.05% (KI-14)
Mn		≧ 4000 ppm	9610ppm (KI-14)



Kiruku Hill Sub-area



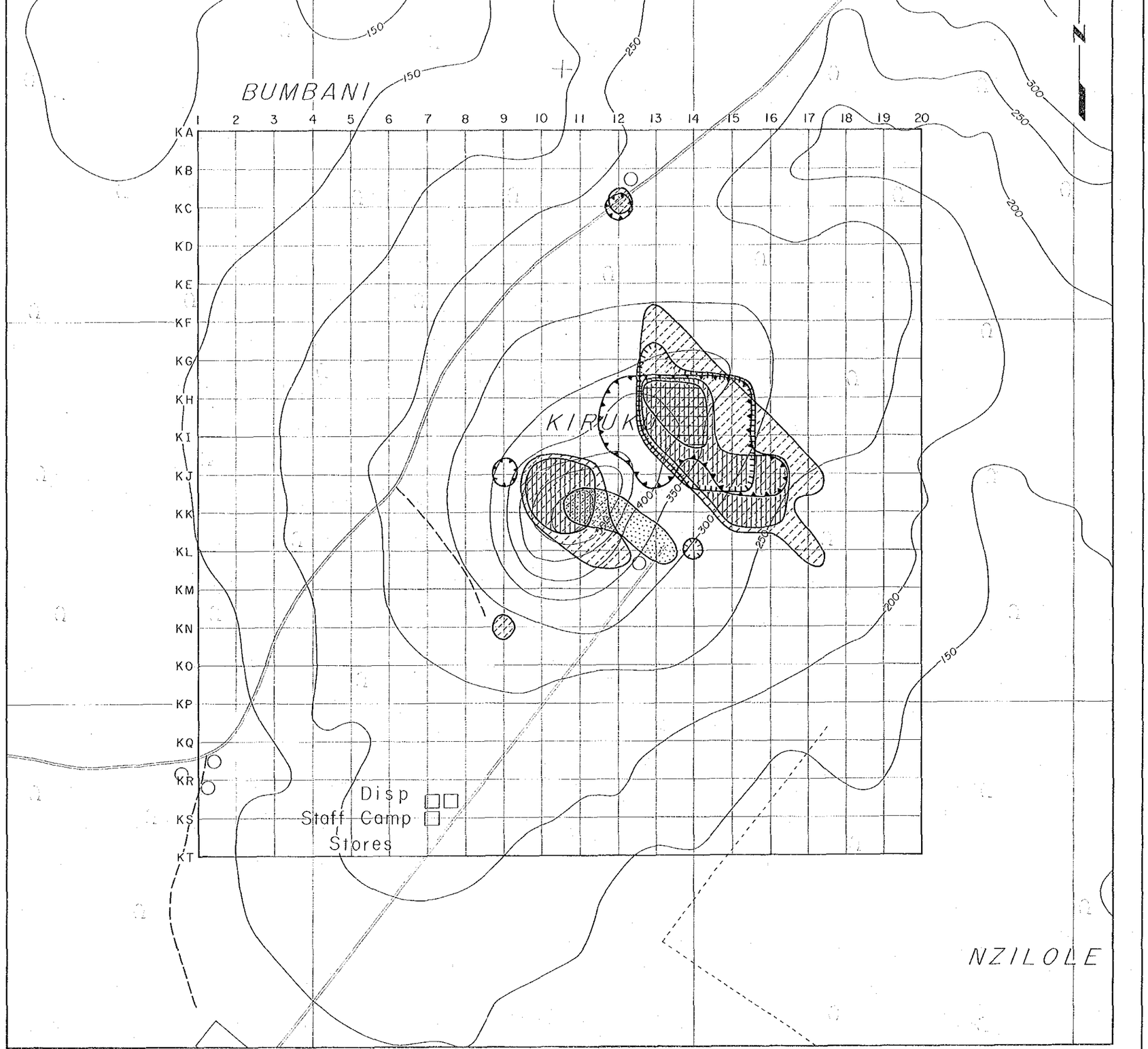
LEGEND

Element	Anomaly	Threshold Value	Maximum Value (Sample No.)
Au		≧ 50 ppb	160 ppb (KL-13)
Ba		≧ 5100 ppm	9970 ppm (KH-14)
Sr		≧ 480 ppm	1430 ppm (KI-15)
Fe		≧ 9.2 %	13.05 % (KI-14)
Mn		≧ 4000 ppm	9610 ppm (KI-14)
P		≧ 4200 ppm	7310 ppm (NH-07)

The total of 600 samples from both sub-areas were analyzed statistically as one population.

STATISTIC VALUES

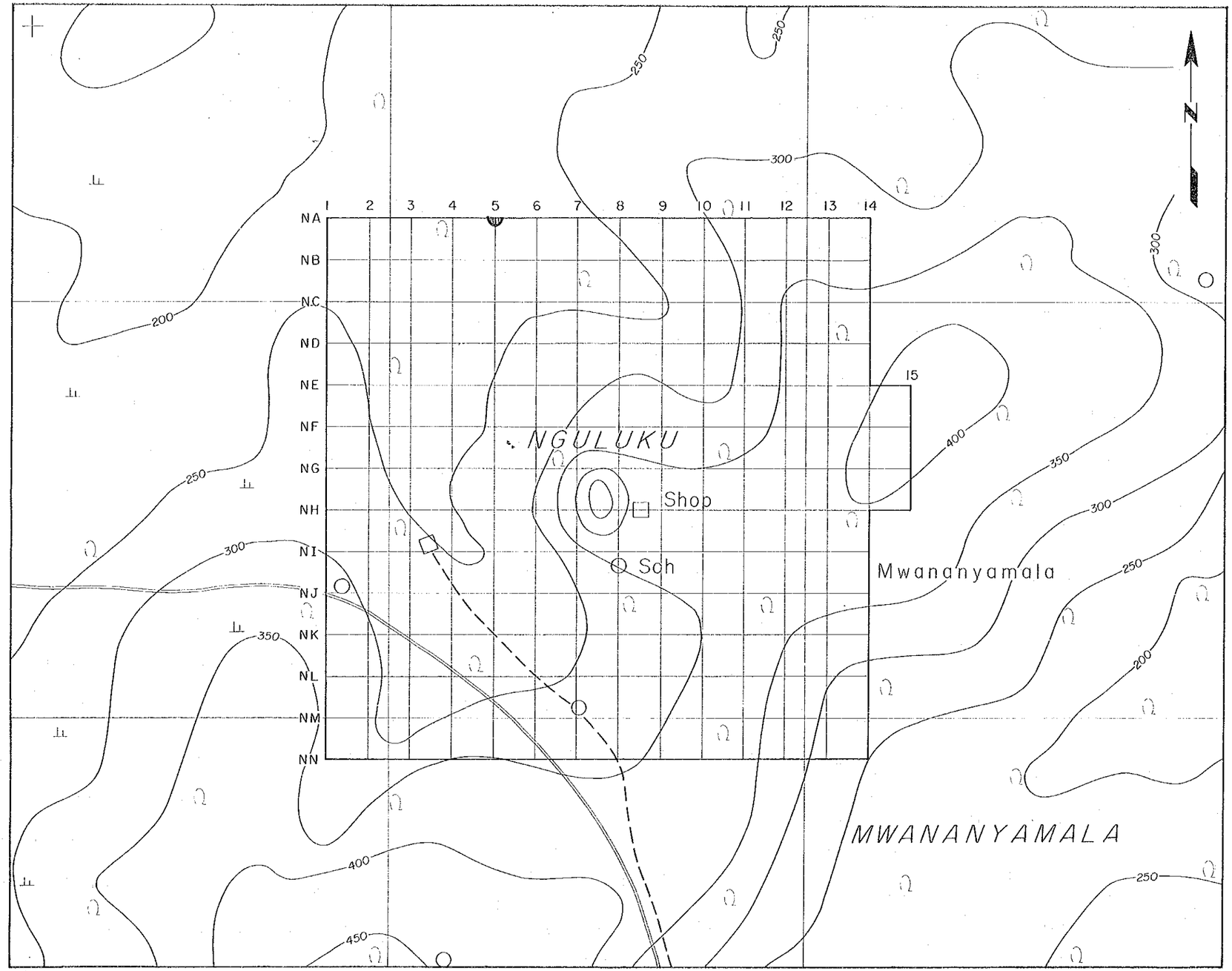
Element	Unit	Num. Data	Max.	Min.	Mean (M)	Std. Dev. (SD)	M+SD	M+2SD
Au	ppb	353	160	1	8.0	0.424	21.2	56.3
Ba	ppm	600	9970	20	419.2	0.525	1404.8	4707.3
Sr	ppm	600	1430	8	79.2	0.443	219.5	605.3
Fe	%	600	13.05	0.05	2.507	0.371	5.885	13.812
Mn	ppm	600	9610	5	897.7	0.496	2812.1	8809.5
P	ppm	600	7310	30	433.0	0.313	1022.5	2414.2



STATISTIC VALUES

Element	Unit	Num. Data	Max.	Min.	Mean (M)	Std. Dev. (SD)	M±SD	M±2SD
Au	ppb	353	160	1	8.0	0.424	21.2	56.3
Ba	ppm	600	9970	20	419.2	0.525	1494.6	4707.3
Sr	ppm	600	1430	8	79.2	0.443	219.5	608.3
Fe	%	600	13.05	0.06	2.507	0.371	5.885	13.812
Mn	ppm	600	9610	5	897.7	0.496	2812.1	8509.5
P	ppm	600	1310	30	433.0	0.373	1022.5	2414.2

Nguluku Hill Sub-area

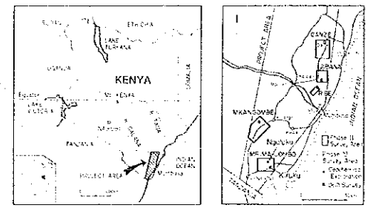


PL. 4

MINERAL EXPLORATION
IN
THE MOMBASA AREA, REPUBLIC OF KENYA
PHASE III

GEOCHEMICAL INTERPRETATION MAP OF THE KIRUKU HILL AND NGULUKU HILL SUB-AREA (2)
- Nb, La, Ce, Nd, Sm, Eu -

LOCATION INDEX



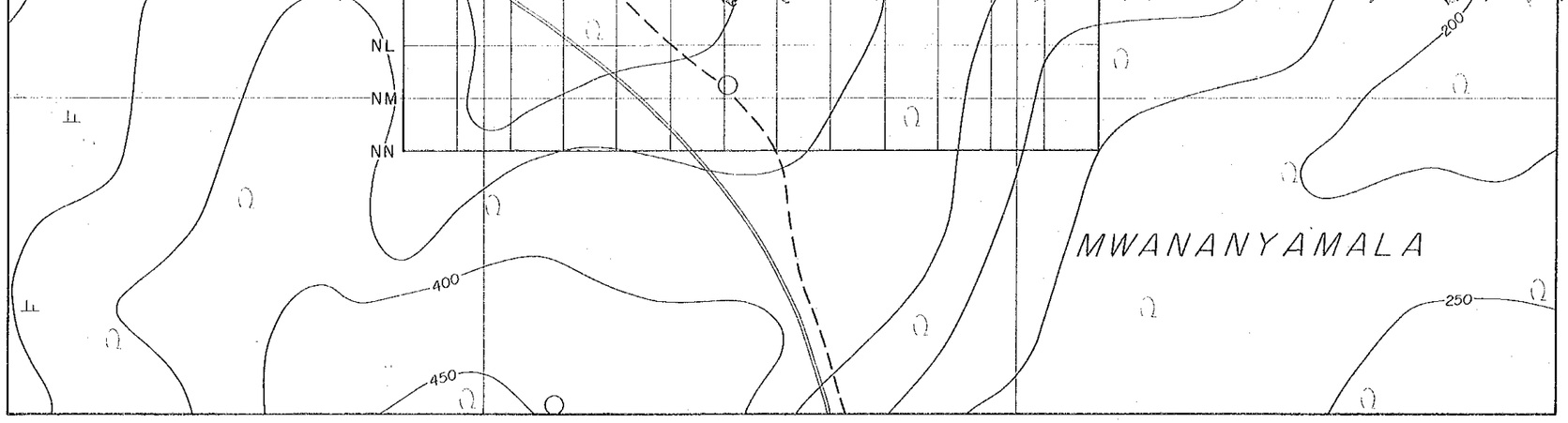
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
February 1993

Scale 1 : 5,000

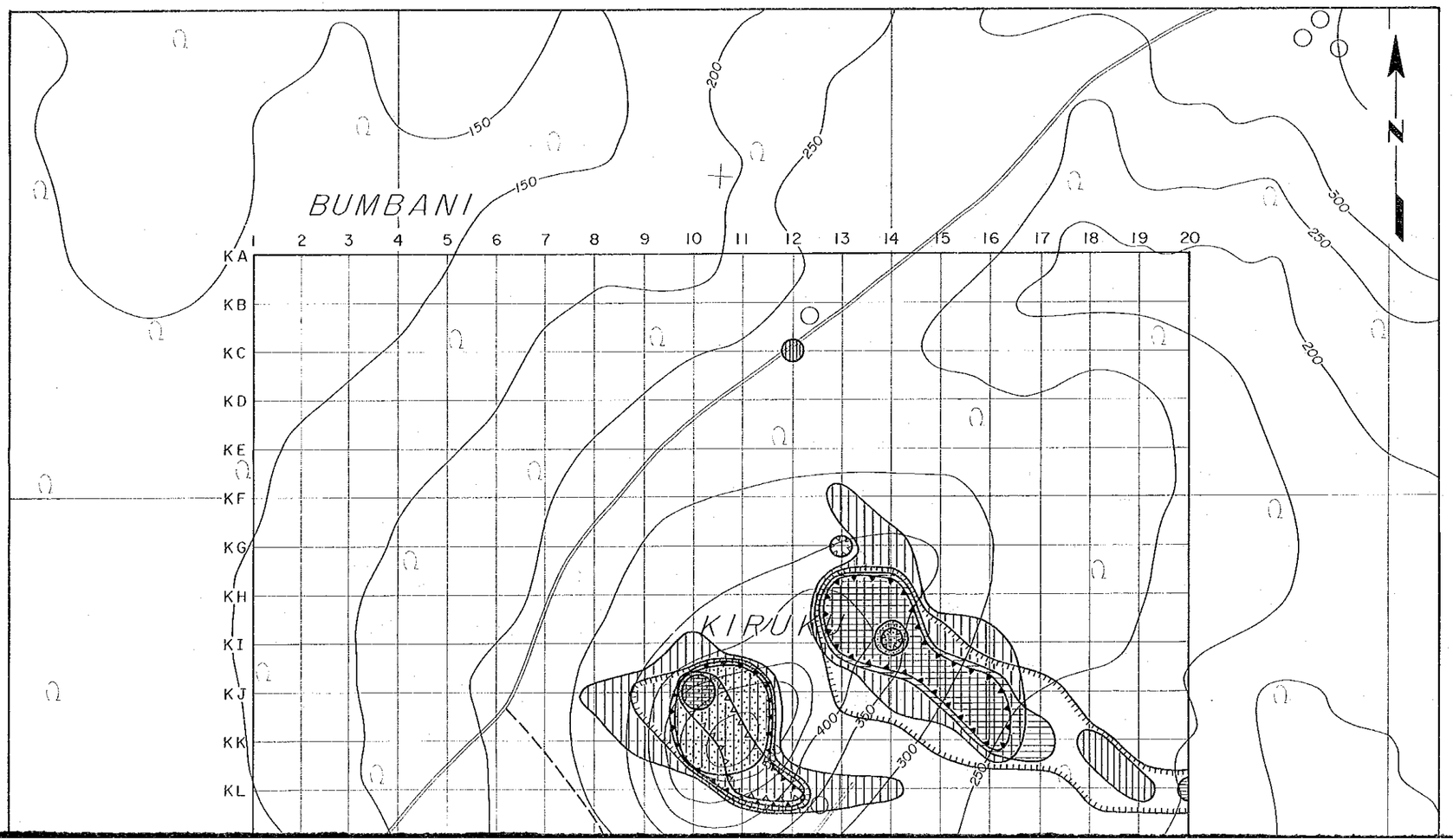
0 100 200 300 400 500m

LEGEND

Element	Anomaly	Threshold Value	Maximum Value (Sample No.)
Nb		≧ 1100ppm	1300ppm (KI-14)
La		≧ 2400ppm	6700ppm (KI-14)
Ce		≧ 1060ppm	7020ppm (KI-14)
Nd		≧ 600ppm	2260 ppm (KI-14)
Sm		≧ 130ppm	271 ppm (KI-14)



Kiruku Hill Sub-area



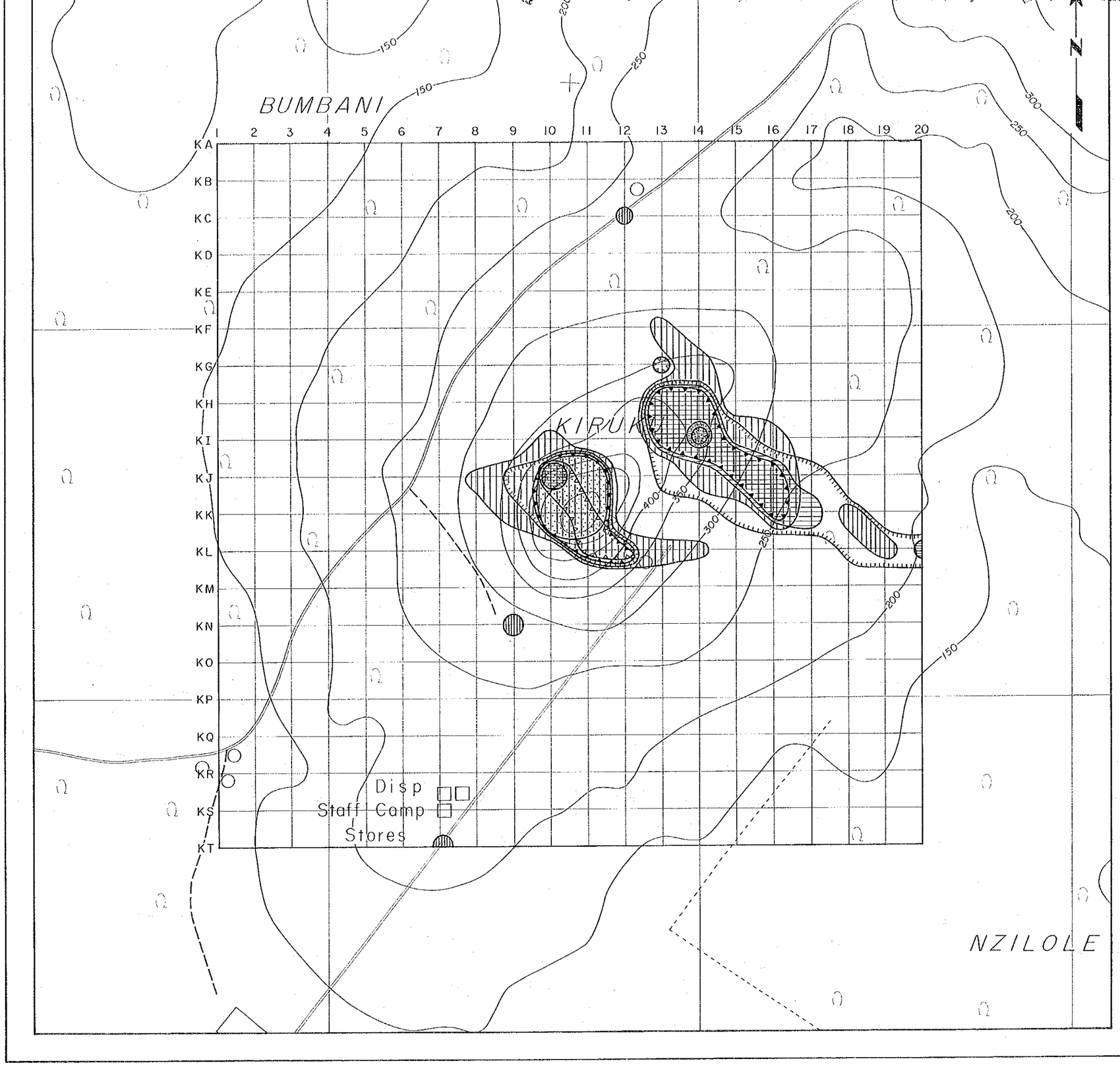
LEGEND

Element	Anomaly	Threshold Value	Maximum Value (Sample No.)
Nb		≧ 1100 ppm	1300 ppm (K1-14)
La		≧ 2400 ppm	6700 ppm (K1-14)
Ce		≧ 1060 ppm	7020 ppm (K1-14)
Nd		≧ 600 ppm	2260 ppm (K1-14)
Sm		≧ 130 ppm	271 ppm (K1-14)
Eu		≧ 51 ppm	105 ppm (KG-13)

The total of 600 samples from both sub-areas were analyzed statistically as one population.

STATISTIC VALUES

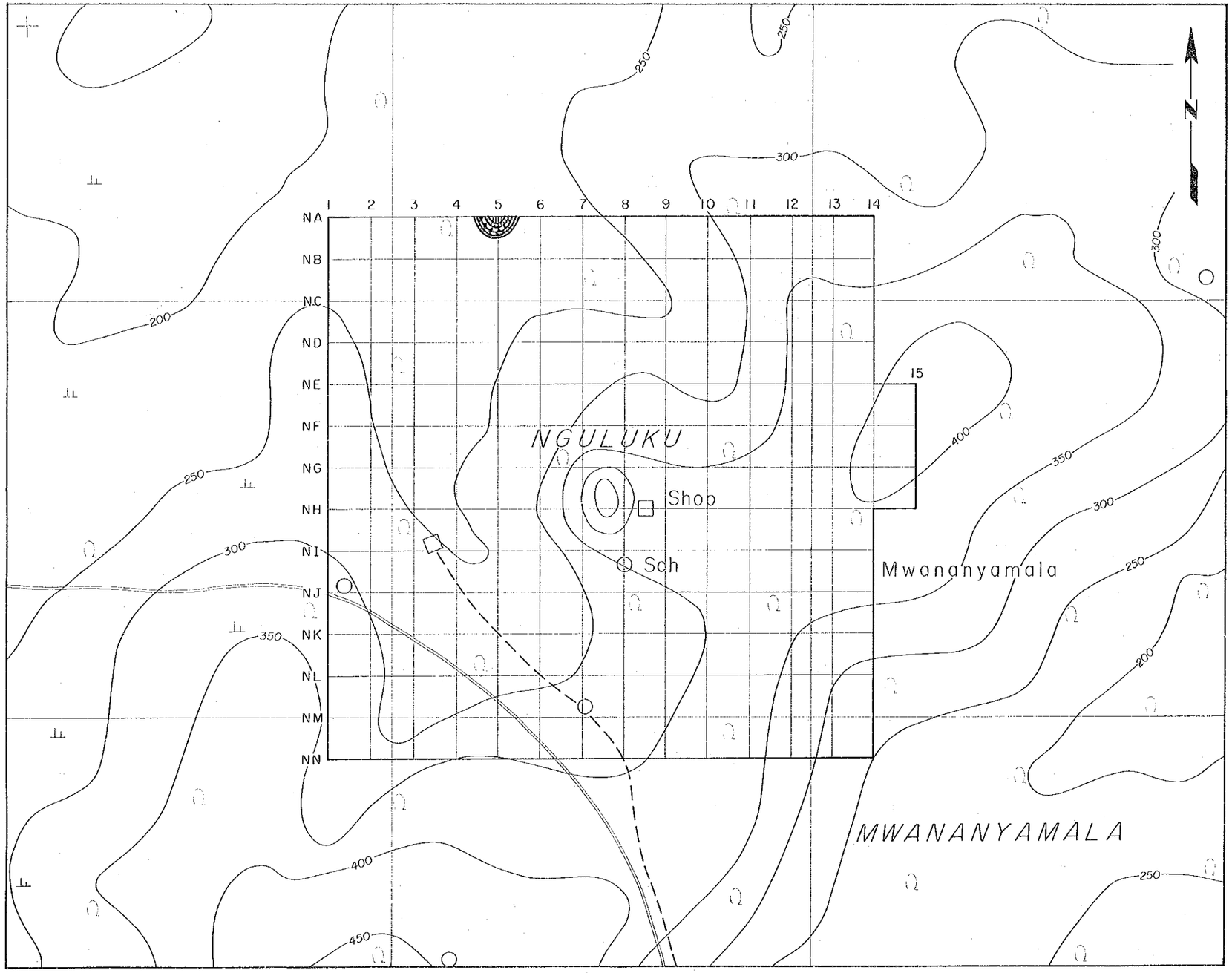
Element	Unit	Num. Data	Max.	Min.	Mean (M)	Std. Dev. (SD)	M+SD	M+2SD
Nb	ppm	600	1300	15	136.0	0.423	360.1	953.5
La	ppm	600	6700	35	212.2	0.454	603.8	1717.9
Ce	ppm	600	7020	66	285.6	0.334	615.9	1328.1
Nd	ppm	600	2260	15	108.4	0.375	257.2	610.0
Sm	ppm	600	271.0	3.5	18.54	0.352	41.72	93.85
Eu	ppm	600	105.0	0.5	4.34	0.464	12.64	38.79



STATISTIC VALUES

Element	Unit	Num. Data	Max.	Min.	Mean (M)	Std. Dev. (SD)	M+SD	M+2SD
Mn	ppm	600	1300	15	138.0	0.423	369.1	953.3
La	ppm	600	6700	35	212.2	0.454	603.8	1717.9
Co	ppm	600	7020	68	285.6	0.334	615.9	1378.1
Ni	ppm	600	2260	15	108.4	0.375	257.2	610.6
Sc	ppm	600	271.0	3.5	18.54	0.352	41.72	93.85
Eu	ppm	600	105.0	0.5	4.34	0.464	12.64	36.79

Nguluku Hill Sub-area

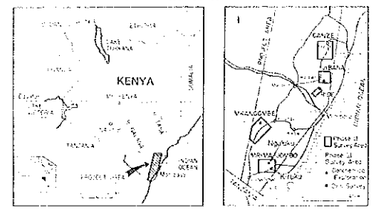


PL. 5

MINERAL EXPLORATION
IN
THE MOMBASA AREA, REPUBLIC OF KENYA
PHASE III

GEOCHEMICAL INTERPRETATION MAP OF THE KIRUKU HILL AND NGULUKU HILL SUB-AREA (3)
- Y, U, Th, Tb, Yb, Lu -

LOCATION INDEX



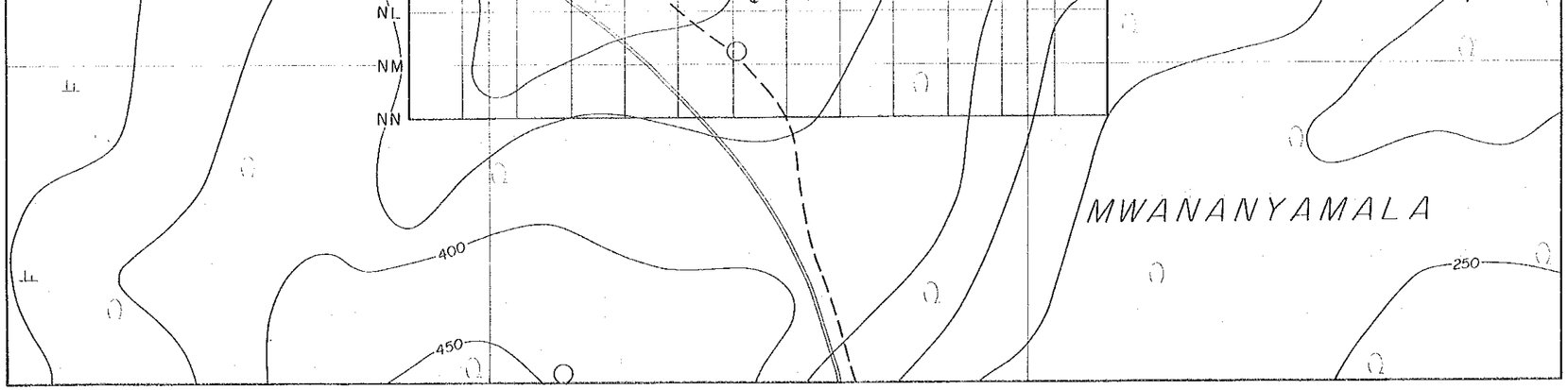
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
February 1993

Scale 1 : 5,000

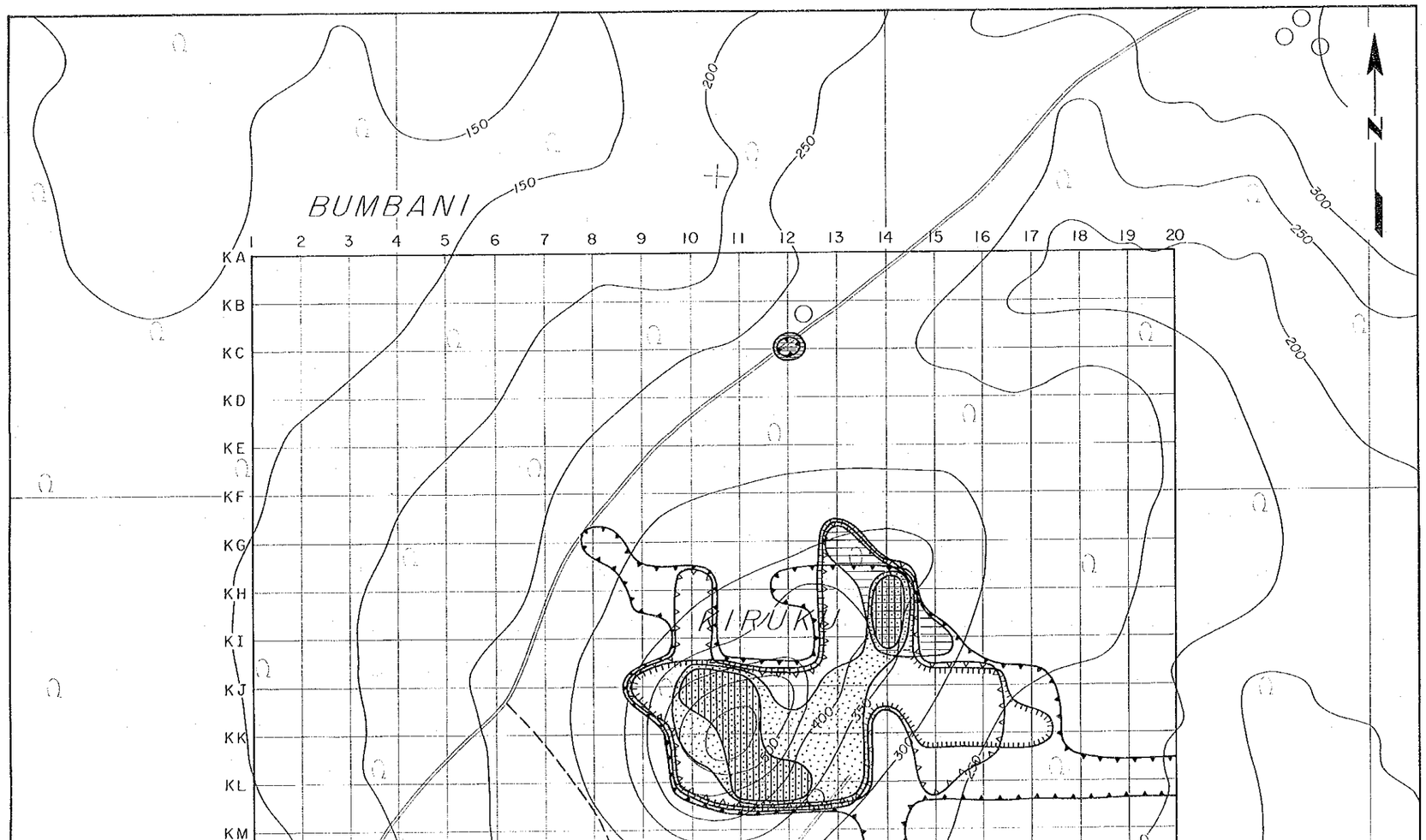
0 100 200 300 400 500m

LEGEND

Element	Anomaly	Threshold Value	Maximum Value (Sample No.)
Y		≧ 420ppm	660ppm (KJ-10)
U		≧ 16 ppm	310ppm (NA-5)
Th		≧ 400 ppm	501ppm (KJ-10)
Tb		≧ 11 ppm	25ppm (KI-14)
Yb		≧ 20 ppm	50ppm (KJ-10)



Kiruku Hill Sub-area



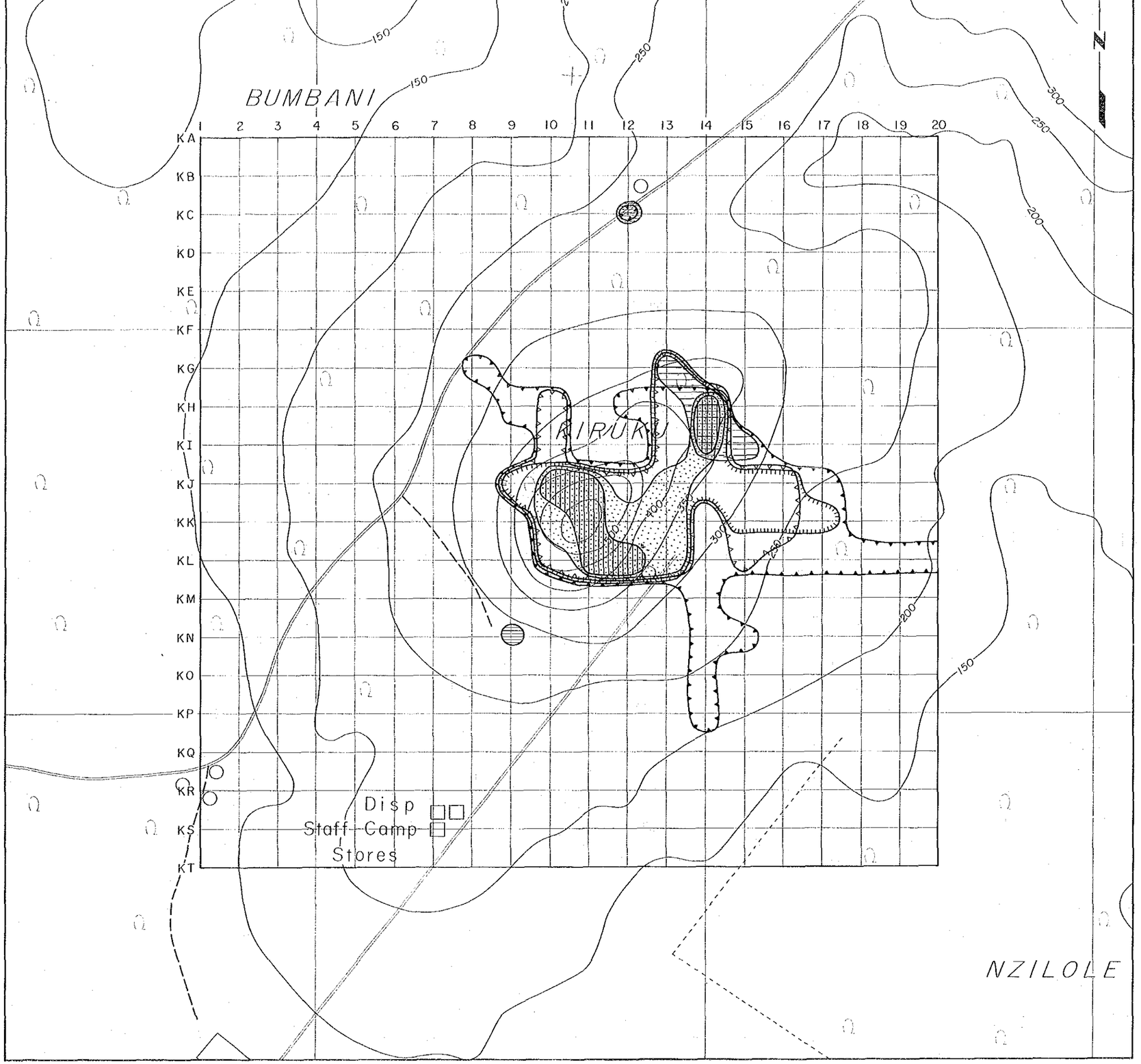
LEGEND

Element	Anomaly	Threshold Value	Maximum Value (Sample No.)
Y		≧ 420ppm	660ppm (KJ-10)
U		≧ 16 ppm	310ppm (NA-5)
Th		≧ 400 ppm	501ppm (KJ-10)
Tb		≧ 11 ppm	25ppm (KI-14)
Yb		≧ 20 ppm	50ppm (KJ-10)
Lu		≧ 3.3 ppm	7.2ppm (KJ-10)

The total of 600 samples from both sub-areas were analyzed statistically as one population.

STATISTIC VALUES

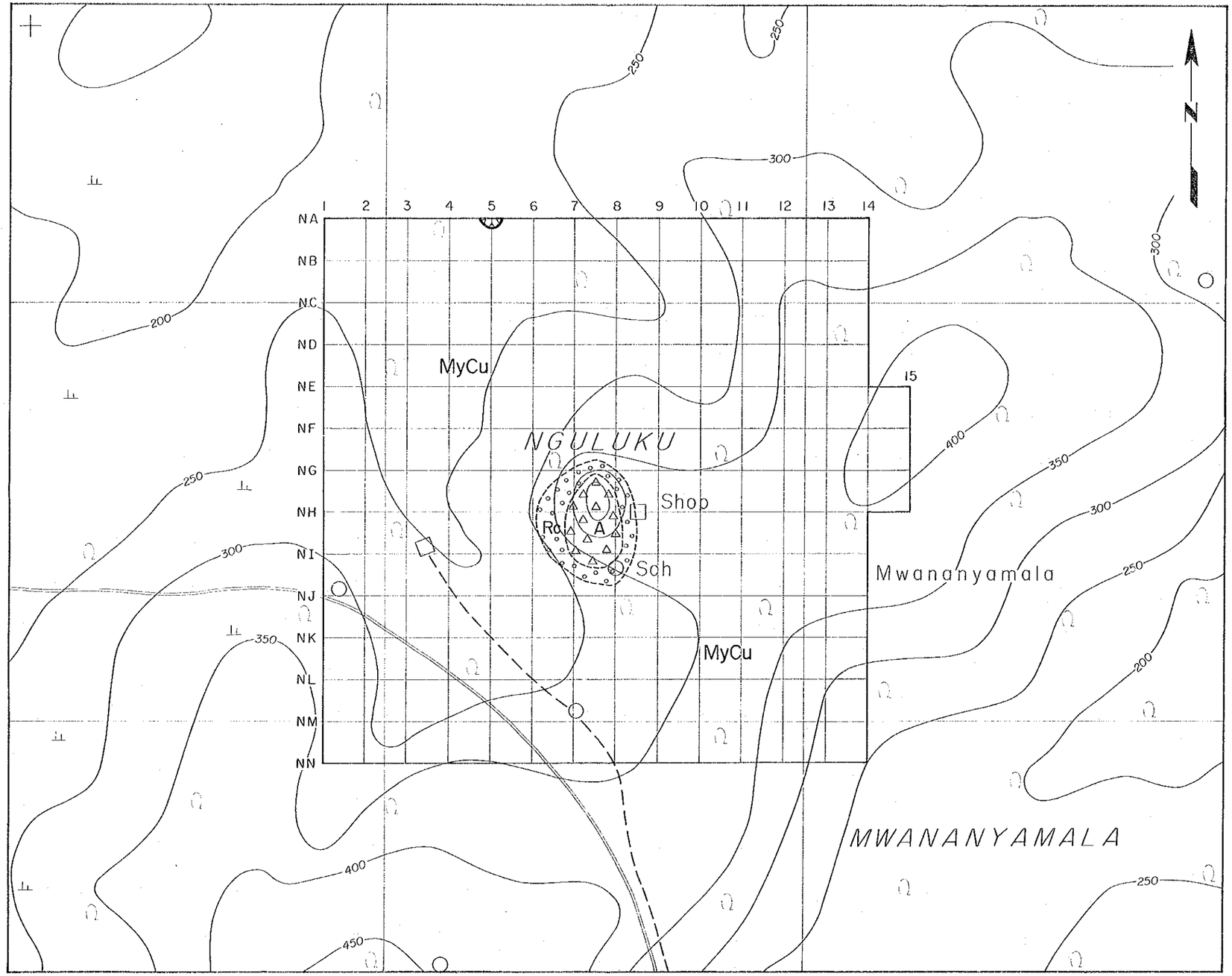
Element	Unit	Nos. Data	Max.	Min.	Mean (M)	Std.Dev. (SD)	M+SD	M+2SD
Y	ppm	600	660	30	69.4	0.286	172.9	334.3
U	ppm	595	310.0	1.0	7.51	0.174	11.19	16.89
Th	ppm	600	501	9	69.2	0.370	141.0	330.2
Tb	ppm	600	25.0	0.4	2.59	0.328	5.31	11.35
Yb	ppm	600	50.0	2.8	8.35	0.232	14.25	24.32
Lu	ppm	600	7.2	0.3	1.28	0.216	2.08	3.42



STATISTIC VALUES

Element	Unit	Num. Data	Max.	Min.	Mean (M)	Std. Dev. (SD)	M+SD	M+2SD
Y	ppm	600	820	30	89.4	0.286	172.9	334.3
U	ppm	556	310.0	1.0	7.51	0.474	11.19	16.59
Th	ppm	600	501	9	60.2	0.370	141.0	330.2
Tb	ppm	600	25.0	0.4	2.50	0.328	5.31	11.30
Yb	ppm	600	50.0	2.6	8.35	0.232	14.25	24.32
Lu	ppm	600	7.2	0.3	1.26	0.216	2.08	3.42

Nguluku Hill Sub-area

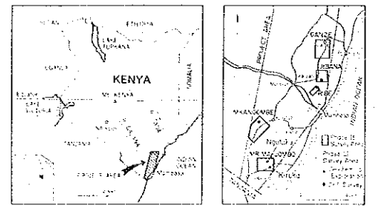


PL. 6

MINERAL EXPLORATION
IN
THE MOMBASA AREA, REPUBLIC OF KENYA
PHASE III

LOCATION MAP OF MINERAL OCCURRENCES AND SUMMARIZED GEOCHEMICAL ANOMALIES IN THE KIRUKU HILL AND NGULUKU HILL SUB-AREA

LOCATION INDEX



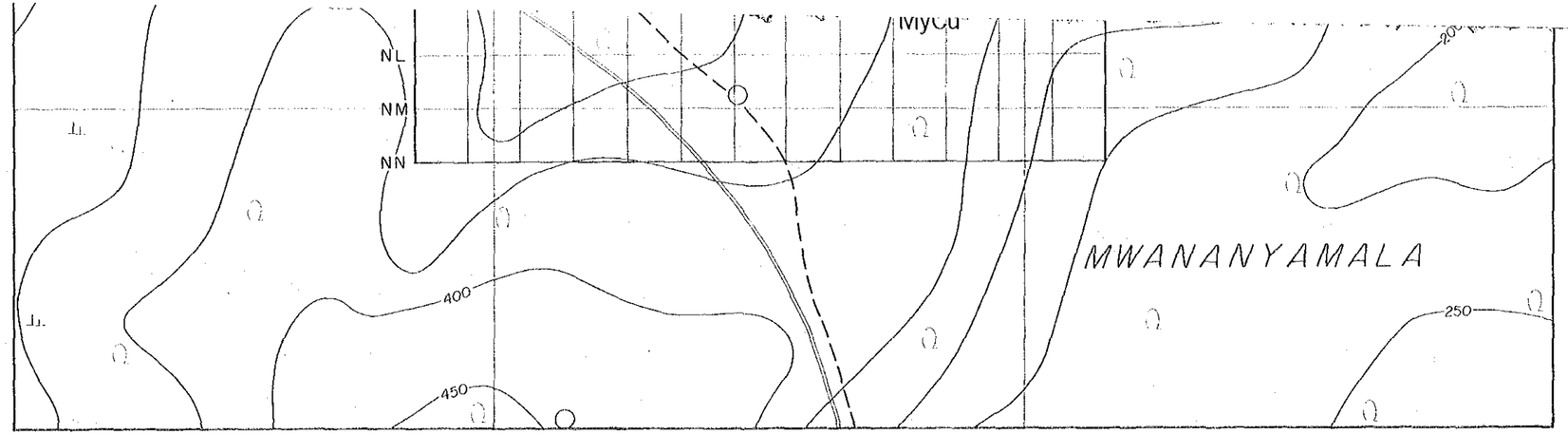
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
February 1993

Scale 1 : 5,000

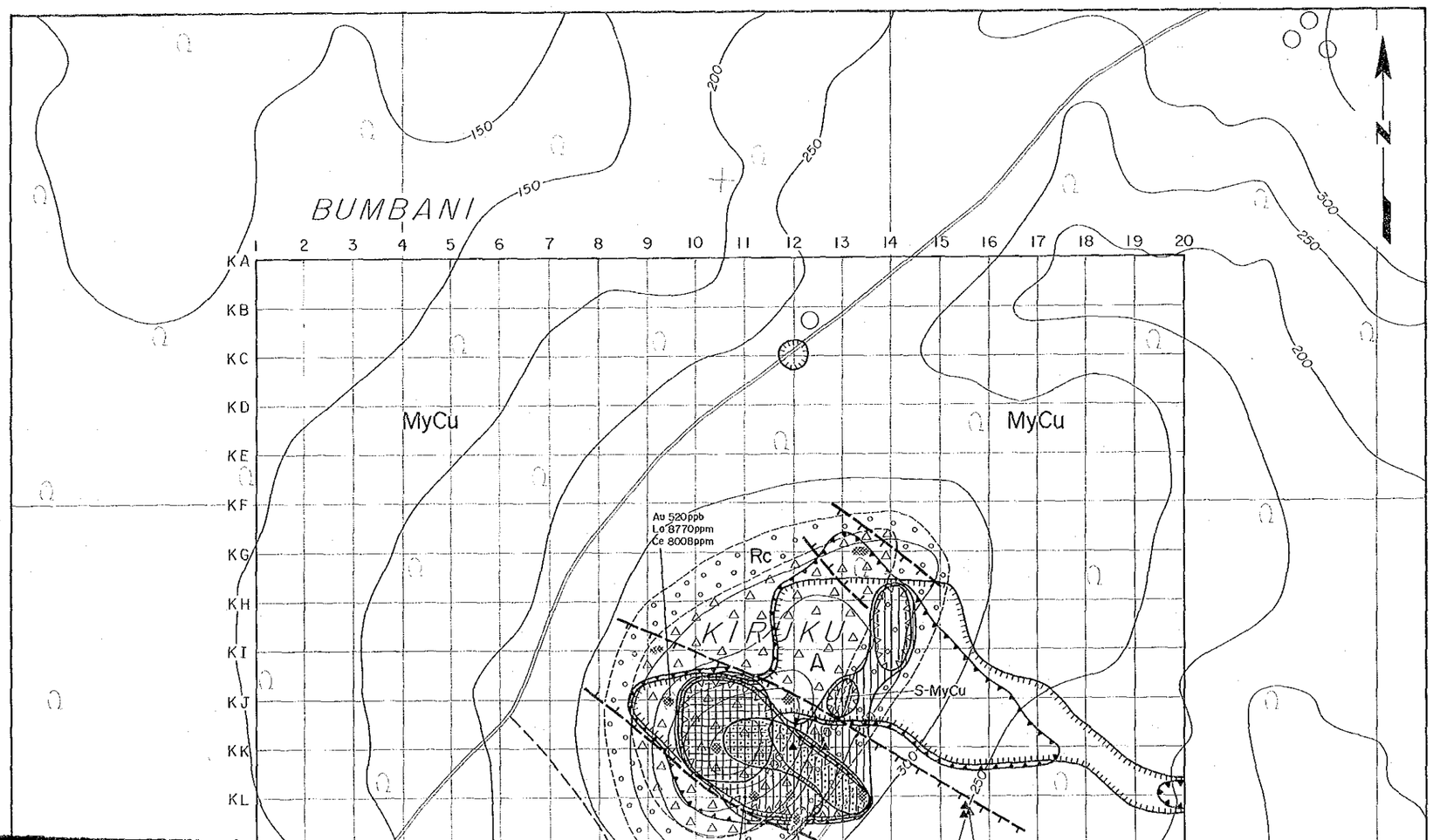
0 100 200 300 400 500m

LEGEND

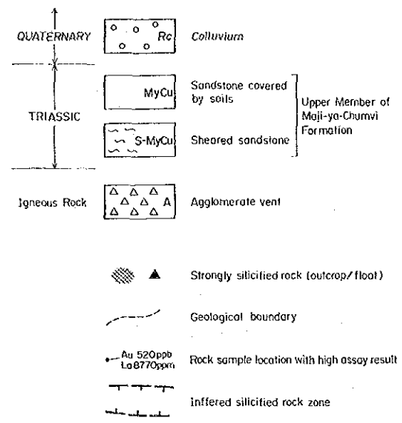
- QUATERNARY — Rc — Colluvium
- TRIASSIC — MyCu — Sandstone covered by soils — Upper Member of Maji-ya-Chumvi Formation
- TRIASSIC — S-MyCu — Sheared sandstone — Upper Member of Maji-ya-Chumvi Formation
- Igneous Rock — Agglomerate vent
- Strongly silicified rock (outcrop/float)
- Geological boundary
- Au 520ppb La 870ppm — Rock sample location with high assay result



Kiruku Hill Sub-area



LEGEND



Geochemical Anomaly

Element	Anomaly	Threshold
Au		≧ 50 ppb
Nb		≧ 1100 ppm
Y		≧ 420 ppm
La+Ce+Nd (Total)		≧ 3500 ppm
Sm+Eu+Tb (Total)		≧ 120 ppm
Yb+Lu (Total)		≧ 35 ppm

The total of 600 samples from both sub areas were analyzed statistically as one population.

BUMBANI

NZILOLE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

KA KB KC KD KE KF KG KH KI KJ KK KL KM KN KO KP KQ KR KS KT

MyCu

MyCu

MyCu

MyCu

KIRUKUA

Rc

Rc

Rc

S-MyCu

S-MyCu

Au 520ppb
La 8770ppm
Ce 8008ppm

Eu 90.0ppm
Sm 290.0ppm

Nb 1370ppm
La 2080ppm

150

200

250

300

500

Disp

Staff Camp

Stores

N

Au	≥	50 ppb
Nb	≥	1100 ppm
Y	≥	420 ppm
La+Ce+Nd (Total)	≥	3500 ppm
Sm+Eu+Tb (Total)	≥	120 ppm
Yb+Lu (Total)	≥	35 ppm

The total of 600 samples from both sub areas were analyzed statistically as one population.