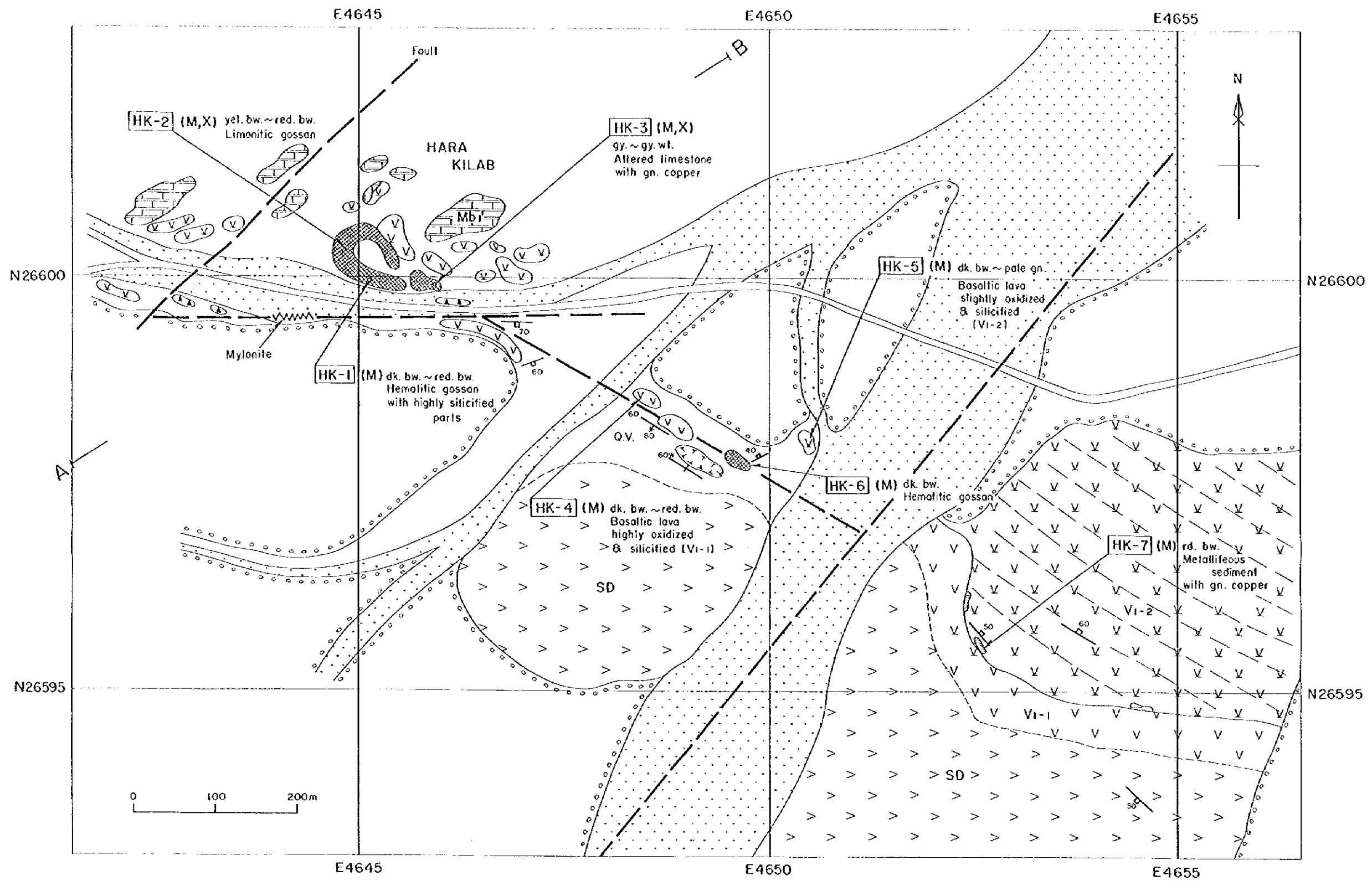
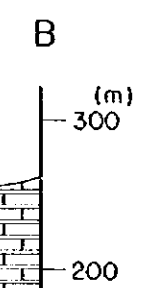
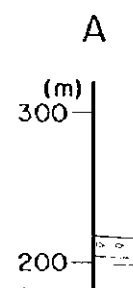


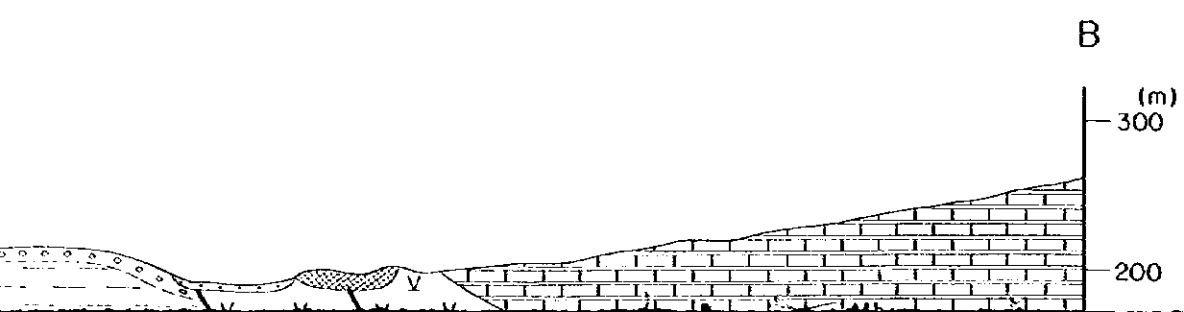
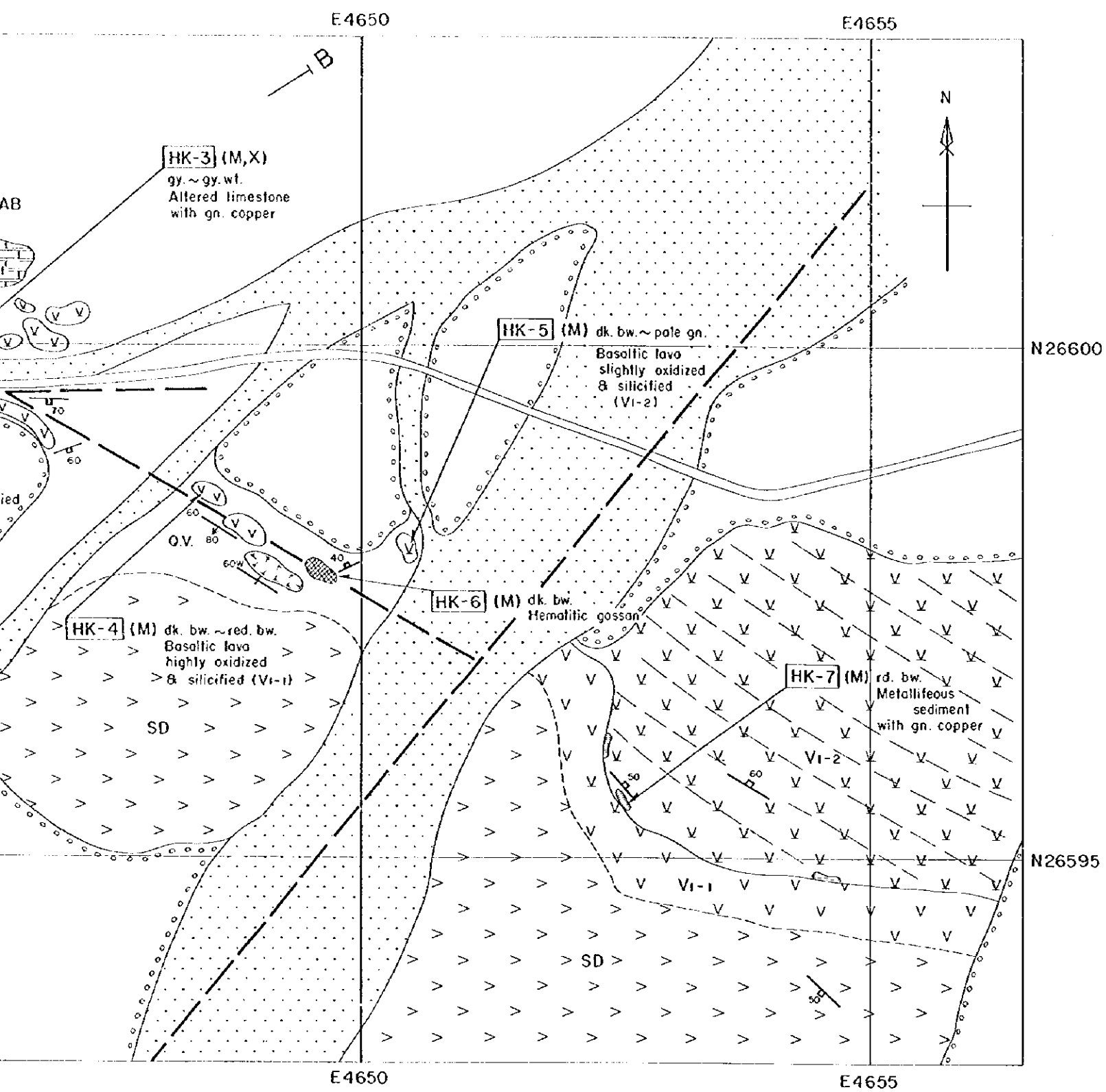
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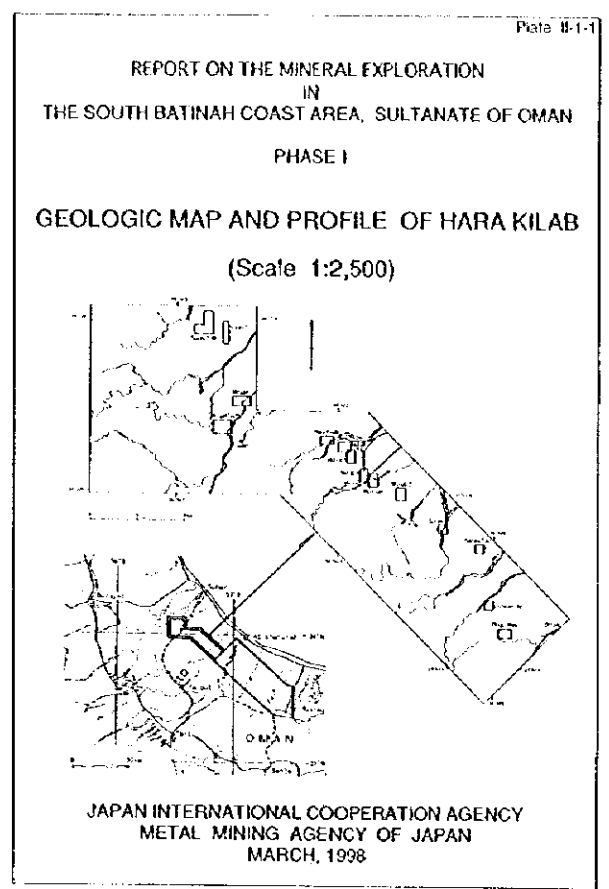
LEGEND

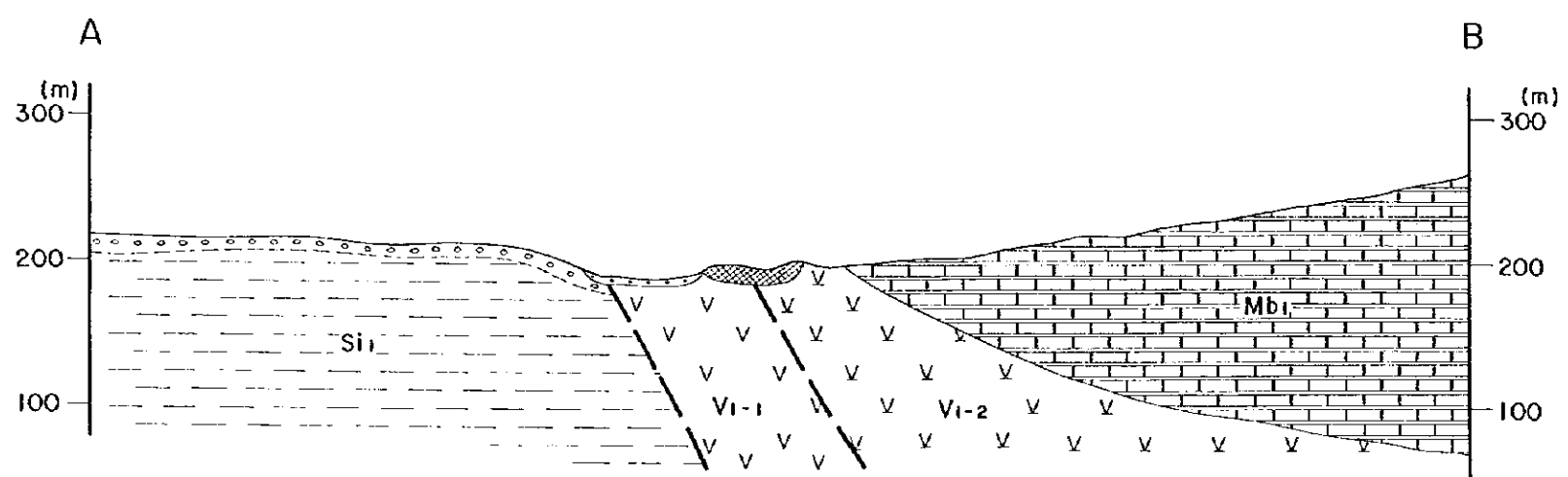
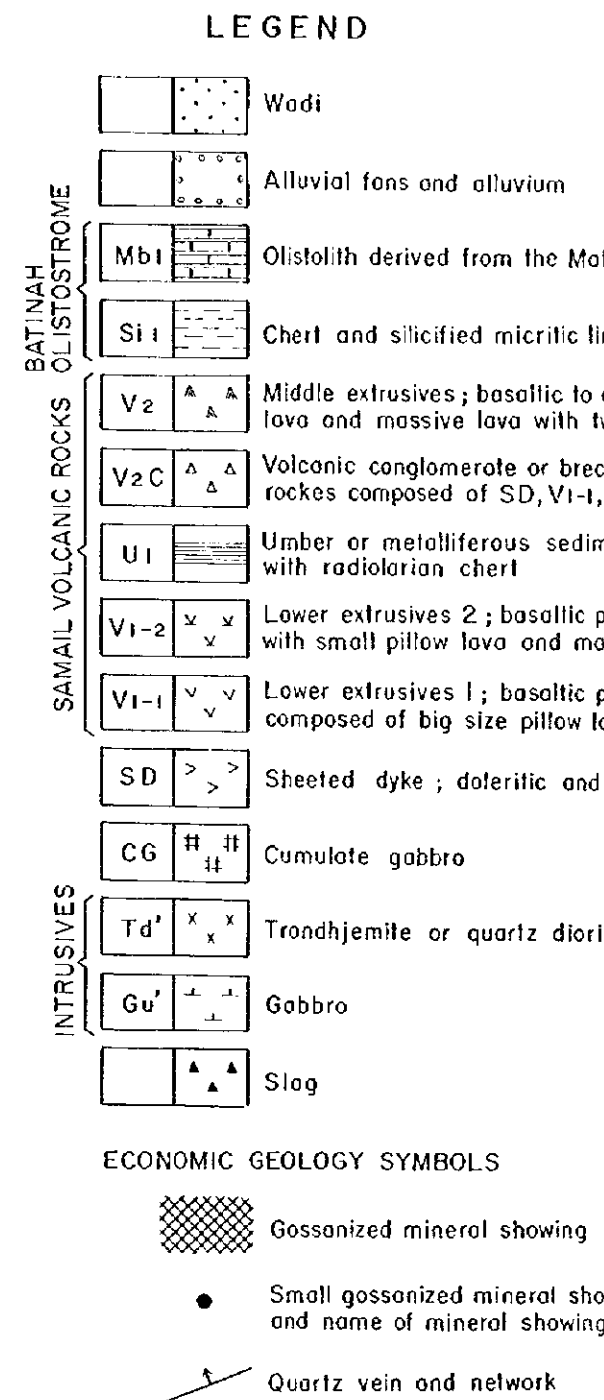
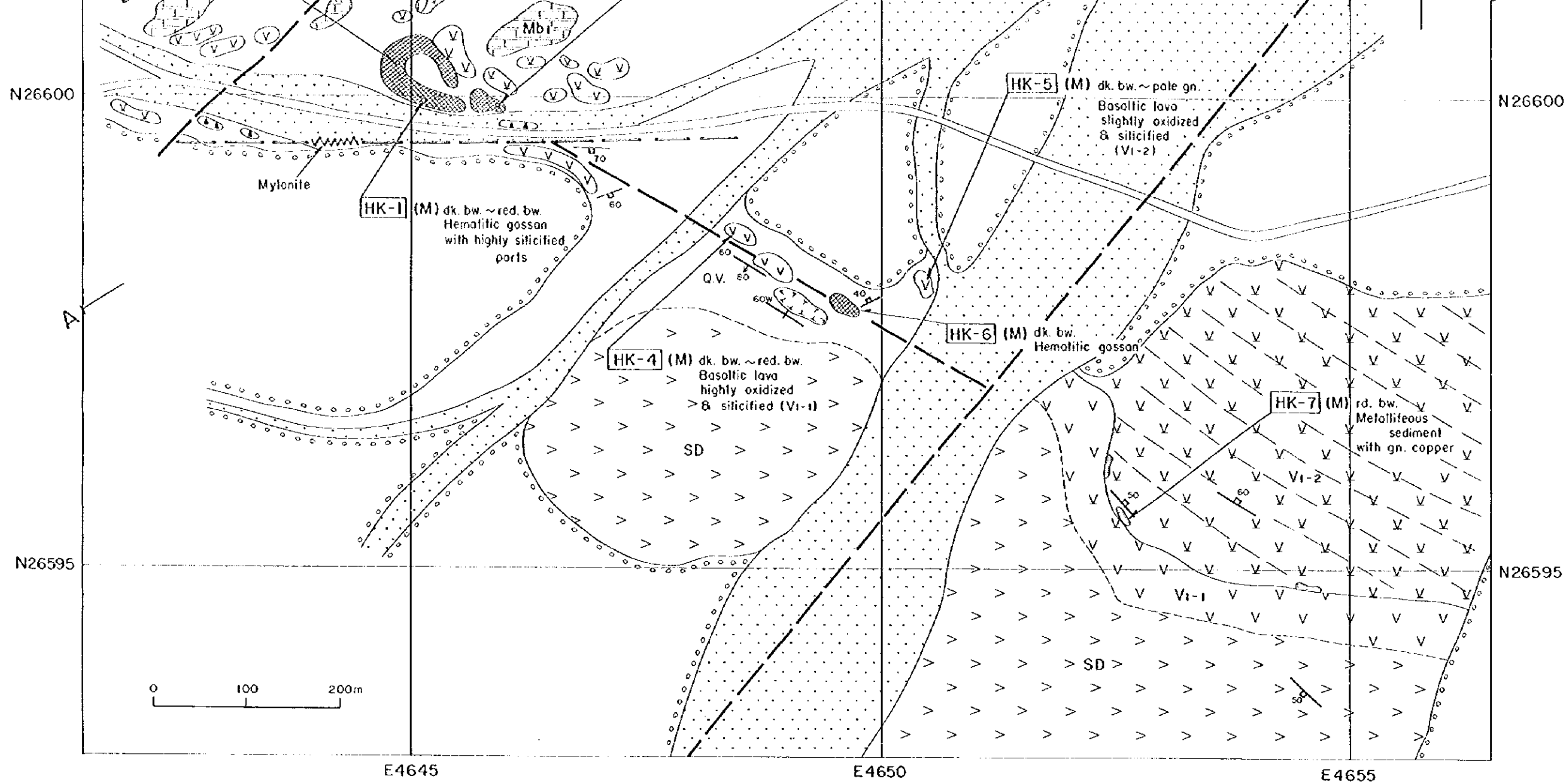
| | |
|---------------------------------|---|
| | Wadi |
| | Alluvial fans and alluvium |
| BATINAH OLISTOSTROME | |
| | Mb1 Olistolith derived from the M... |
| | Si1 Chert and silicified micritic... |
| SAMAIL VOLCANIC ROCKS | |
| | V2 Middle extrusives; basaltic lava and massive lava with... |
| | V2C Volcanic conglomerate or breccias composed of SD, V1... |
| | U1 Umber or metalliferous sediment with radiolarian chert |
| | V1-2 Lower extrusives 2; basaltic lava with small pillow lava and... |
| | V1-1 Lower extrusives 1; basaltic lava composed of big size pillow... |
| | SD Sheeted dyke; doleritic and... |
| | CG Cumulate gabbro |
| INTRUSIVES | |
| | Td' Trondhjemite or quartz diorite |
| | Gu' Gabbro |
| | Stog Stog |
| ECONOMIC GEOLOGY SYMBOLS | |

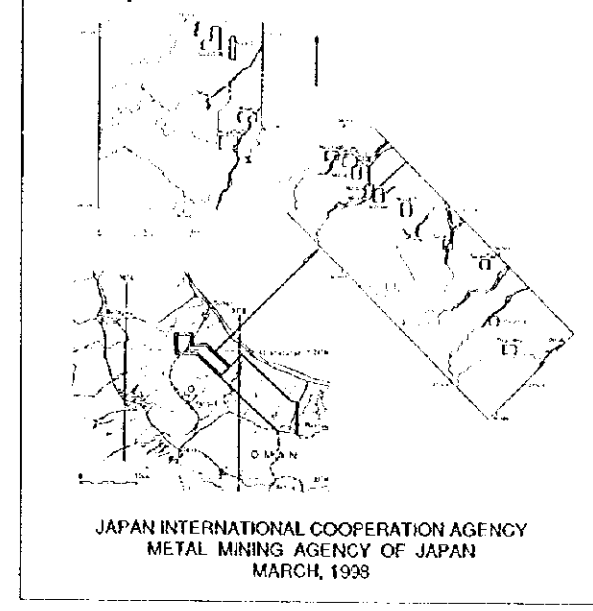
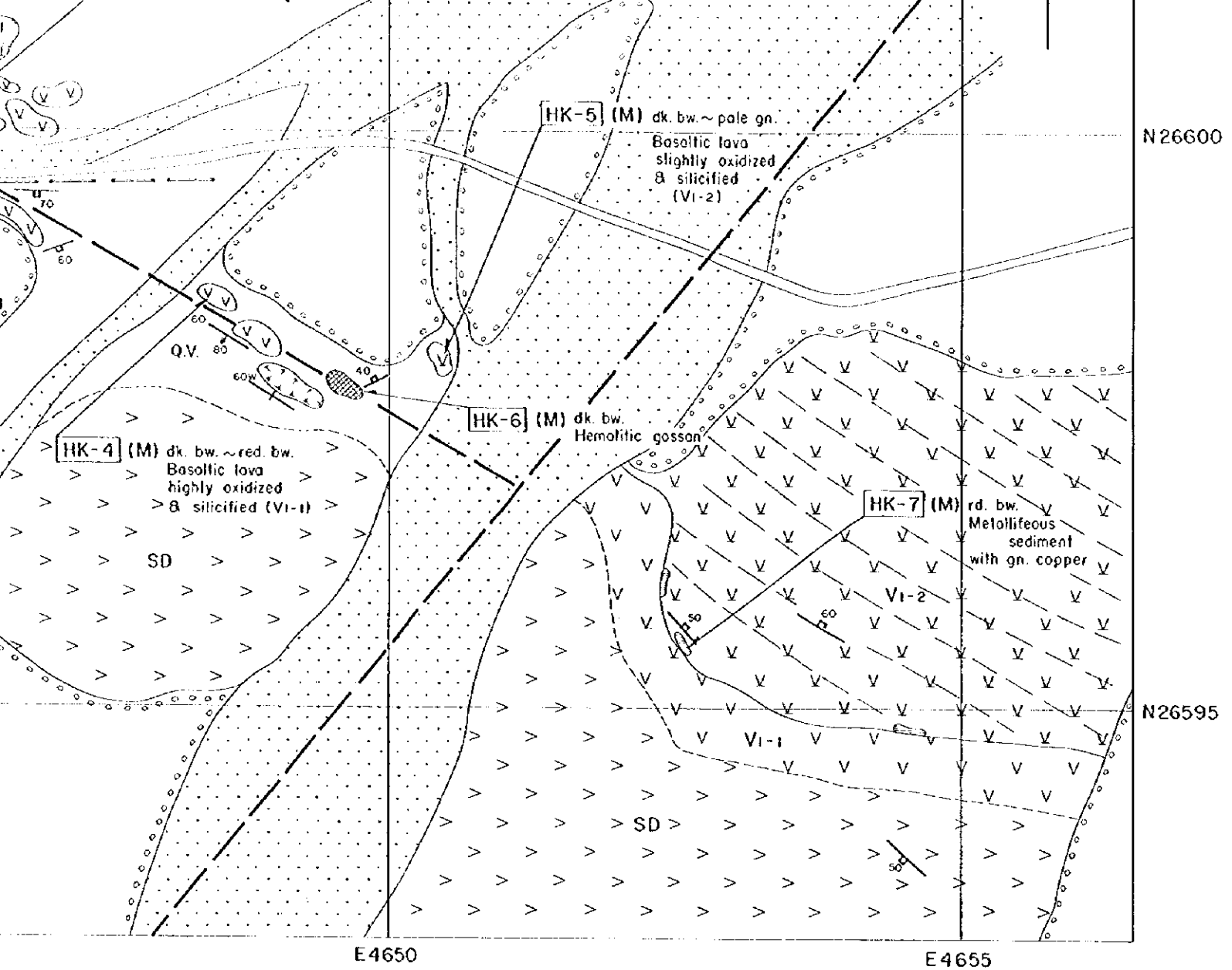




- ### LEGEND
- Wadi
 - Alluvial fans and alluvium
 - BATINAH OLISTOSTROME**
 - Mbl Olistolith derived from the Matbat Formation
 - Sll Chert and silicified micritic limestone
 - SAMAIL VOLCANIC ROCKS**
 - V2 Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene
 - V2C Volcanic conglomerate or breccia; reworked rocks composed of SD, V1-1, V1-2 and so on
 - U1 Umber or metalliferous sediments with radiolarian chert
 - V1-2 Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - V1-1 Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD Sheeted dyke; doleritic and basaltic dyke
 - CG Cumulate gabbro
 - INTRUSIVES**
 - Td' Trondhjemite or quartz diorite
 - Gu' Gabbro
 - Slag
 - STRUCTURAL FEATURES**
 - 50° Strike and dip of bedding
 - 50° Strike and dip of dykes and sills
 - Fault; dashed where inferred or concealed
 - ECONOMIC GEOLOGY SYMBOLS**
 - HK-1: Sample location.

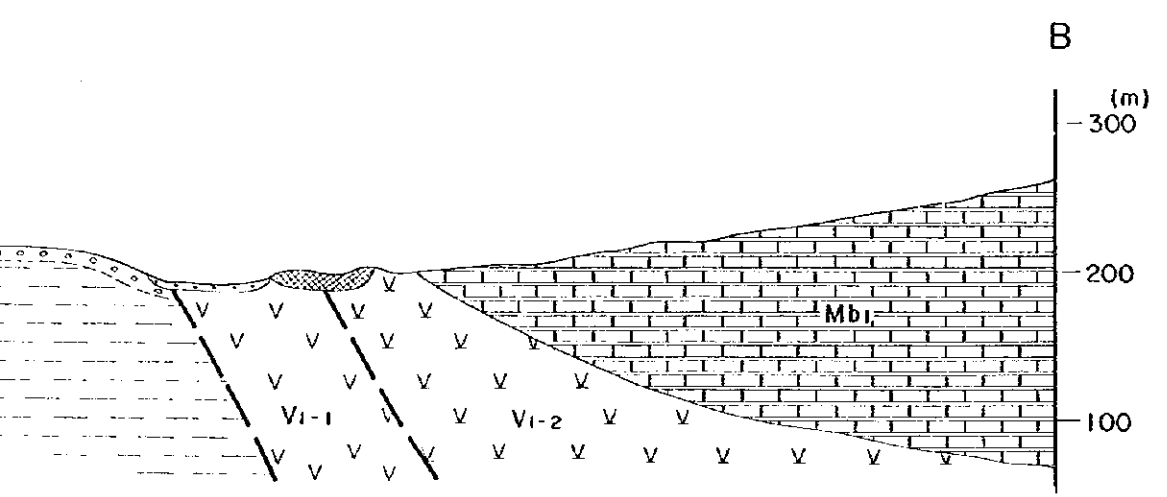


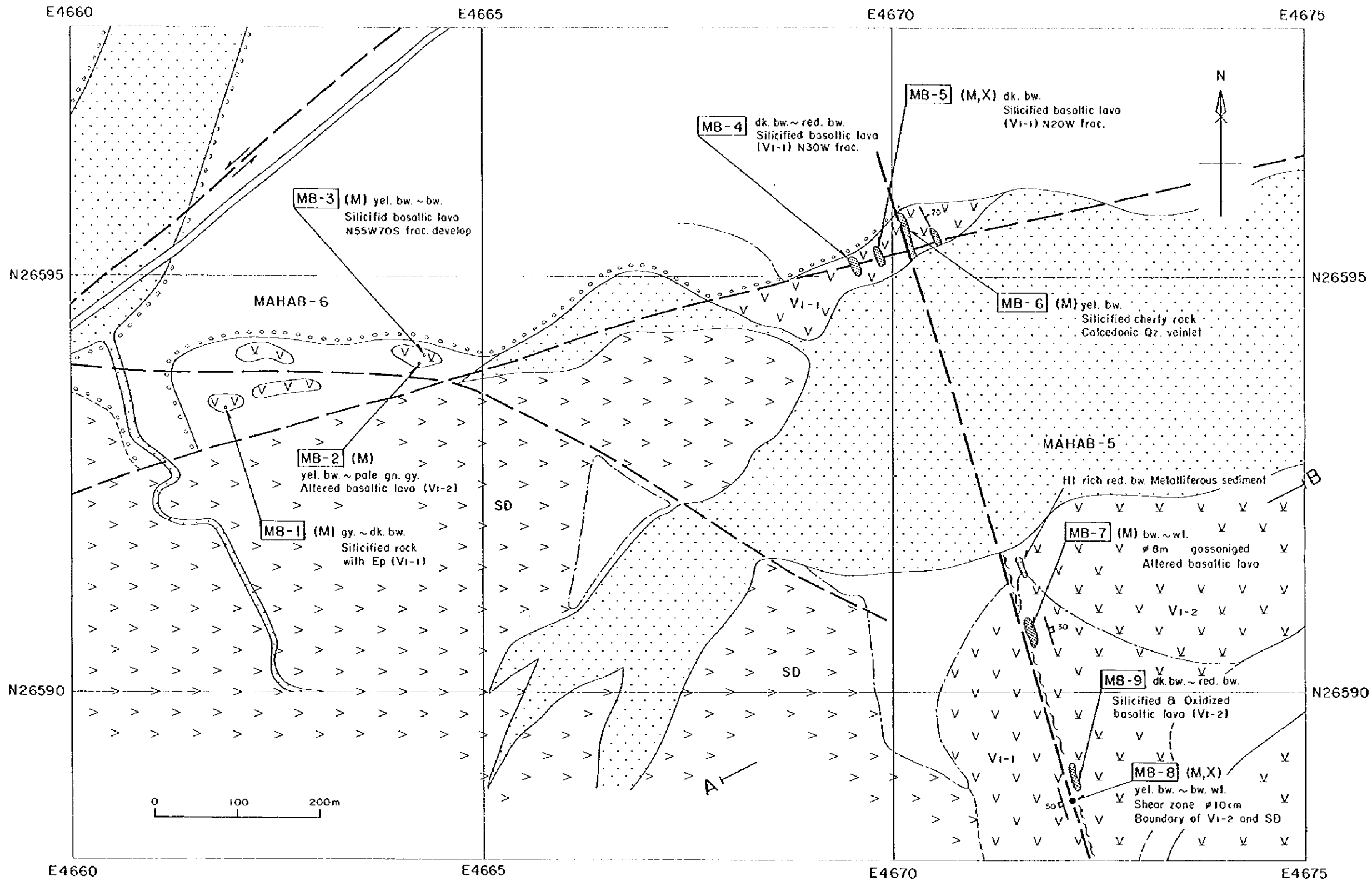




LEGEND

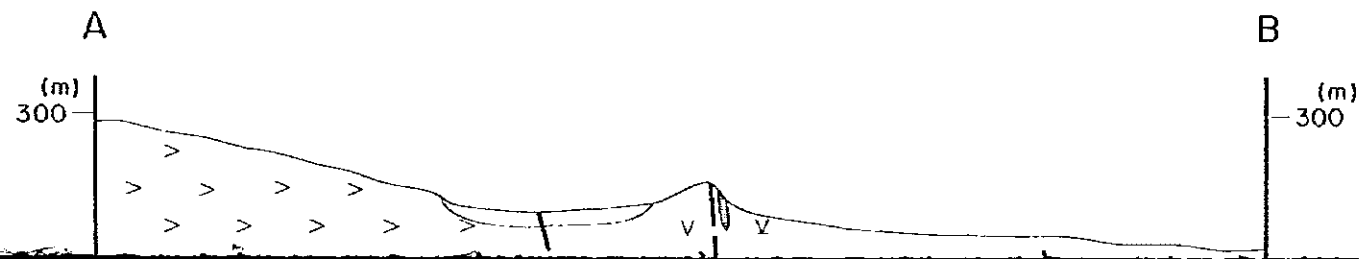
- Wadi
- Alluvial fans and alluvium
- BATINAH OLISTOSTROME
 - Mb1 Olistolith derived from the Matbol Formation
 - Si1 Chert and silicified micritic limestone
- SAMAIL VOLCANIC ROCKS
 - V2 Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene
 - V2C Volcanic conglomerate or breccia; reworked rocks composed of SD, V1-1, V1-2 and so on
 - U1 Umber or metalliferous sediments with radiolarian chert
 - V1-2 Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - V1-1 Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD Sheeted dyke; doleritic and basaltic dyke
 - CG Cumulate gabbro
- INTRUSIVES
 - Td' Trondhjemite or quartz diorite
 - Gu' Gabbro
 - Slag
- STRUCTURAL FEATURES
 - 50 Strike and dip of bedding
 - 50 Strike and dip of dykes and sills
 - Fault; dashed where inferred or concealed
- ECONOMIC GEOLOGY SYMBOLS
 - Gossanized mineral showing
 - Small gossanized mineral showing and name of mineral showing
 - Quartz vein and network
- HK-1 : Sample location
- T : Thin section
- P : Polished section
- M : Chemical analysis
- X : X-ray diffraction analysis

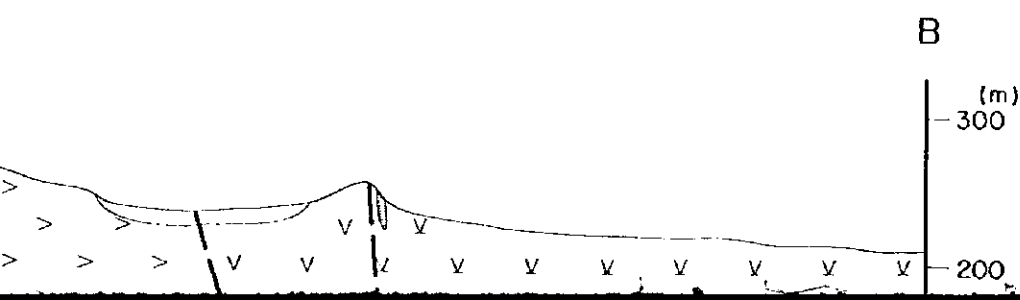
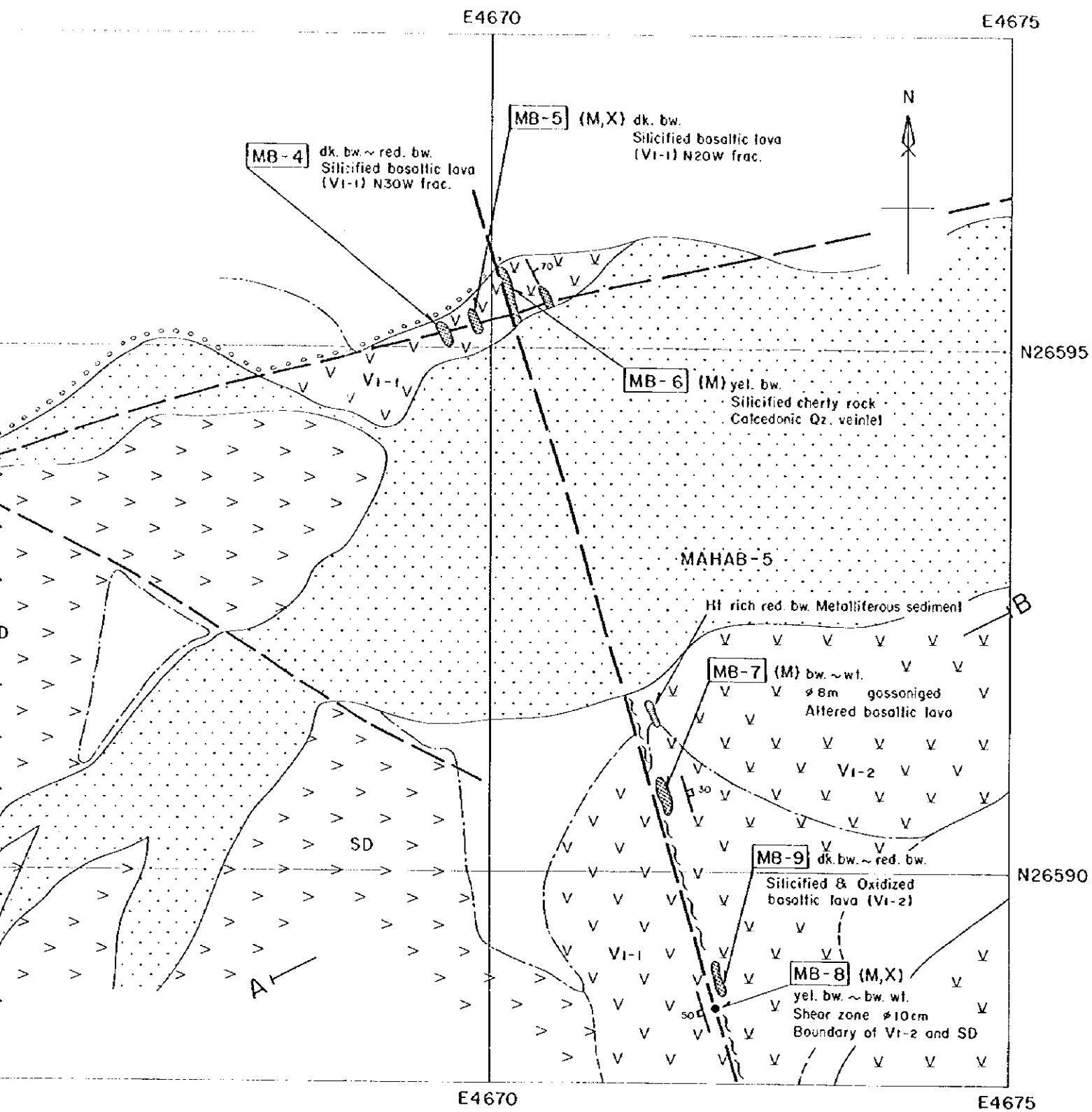




LEGEND

- | | | |
|-----------------------|--|--|
| | | Wadi |
| | | Alluvial fans and alluvium |
| BATINAH OLISTOSTROME | | Olistolith derived from the Ma |
| | | Chert and silicified micritic li |
| SAMAIL VOLCANIC ROCKS | | Middle extrusives; basaltic to lava and massive lava with t |
| | | Volcanic conglomerate or brecc rocks composed of SD, V1-1, |
| | | Umbre or metalliferous sediment with radiolarian chert |
| | | Lower extrusives 2; basaltic p with small pillow lava and m |
| | | Lower extrusives 1; basaltic p composed of big size pillow l |
| | | Sheeted dyke; doleritic and |
| INTRUSIVES | | Cumulate gabbro |
| | | Trondhjemite or quartz dior |
| | | Gabbro |
| | | Slag |





LEGEND

- | | | |
|-----------------------|--|---|
| | | Wadi |
| | | Alluvial fans and alluvium |
| BATINAH OLISTOSTROME | | Olistolith derived from the Matbat Formation |
| | | Chert and silicified micritic limestone |
| SAMAIL VOLCANIC ROCKS | | Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene |
| | | Volcanic conglomerate or breccio; reworked rocks composed of SD, V1-1, V1-2 and so on |
| | | Umber or metalliferous sediments with radiolarian chert |
| | | Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava |
| | | Lower extrusives 1; basaltic pillow lava composed of big size pillow lava |
| | | Sheeted dyke; doleritic and basaltic dyke |
| INTRUSIVES | | Cumulate gabbro |
| | | Trondhjemite or quartz diorite |
| | | Gabbro |
| | | Slag |

STRUCTURAL FEATURES

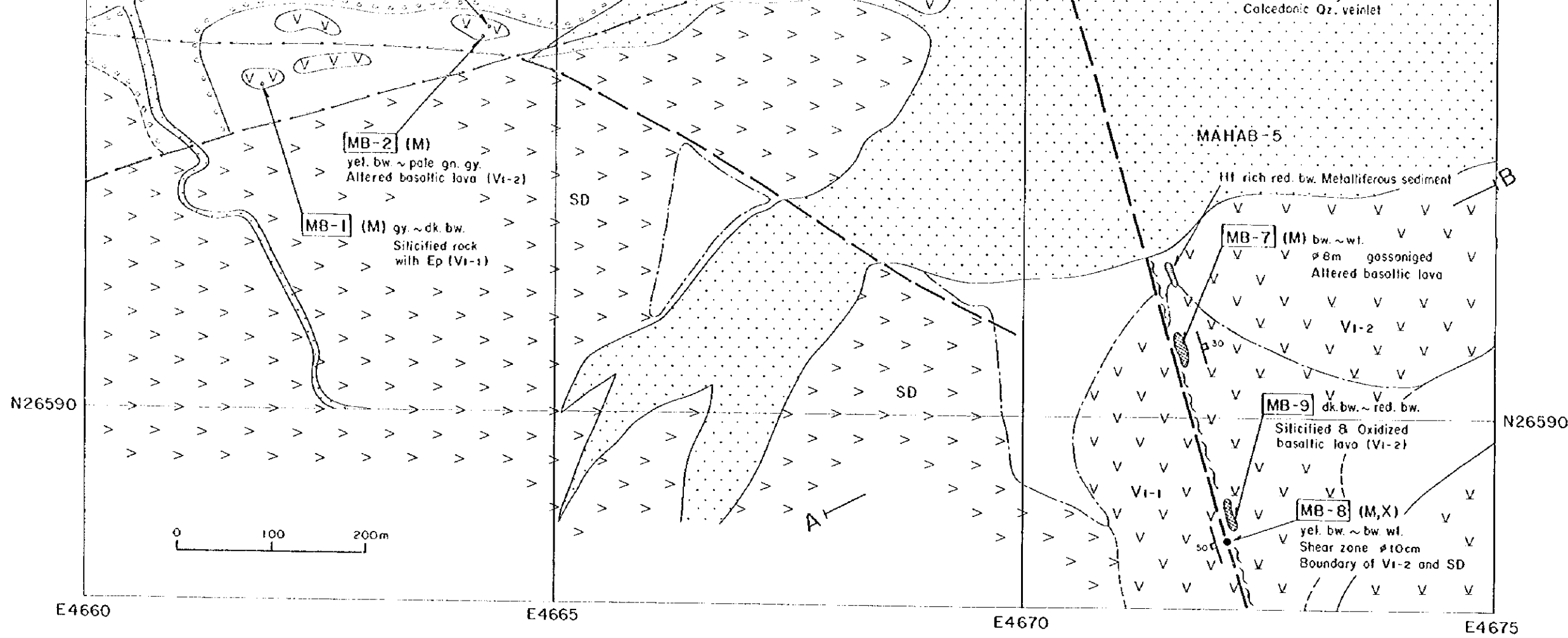
- 50 Strike and dip of bedding
- 50 Strike and dip of dykes and sills
- Fault; dashed where inferred or concealed

ECONOMIC GEOLOGY SYMBOLS

Plate II-1-2

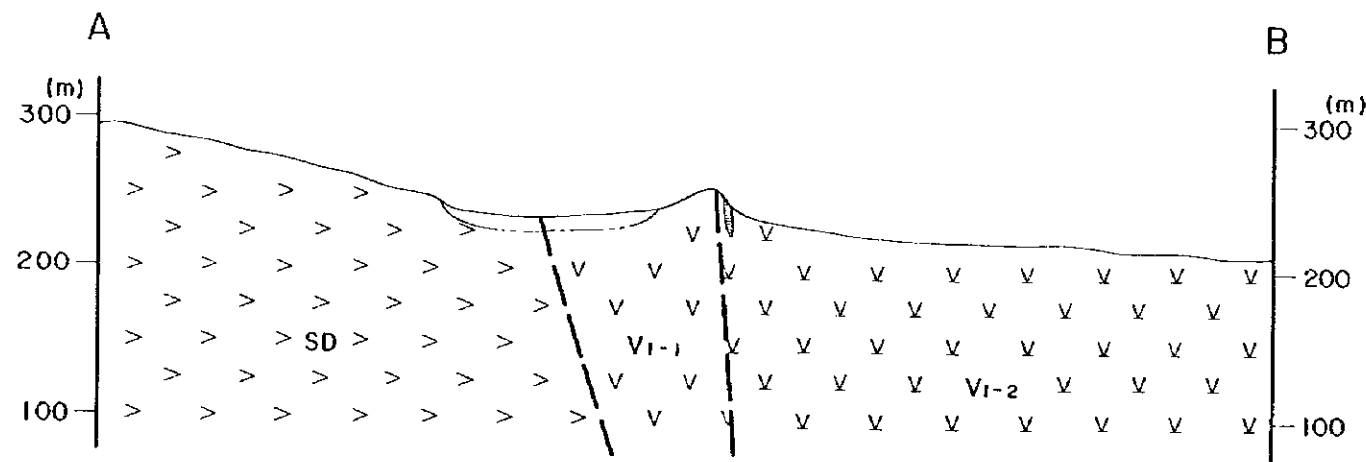
REPORT ON THE MINERAL EXPLORATION
 IN
 THE SOUTH BATINAH COAST AREA, SULTANATE OF OMAN
 PHASE I
GEOLOGIC MAP AND PROFILE OF MAHAB 5&6
 (Scale 1:2,500)

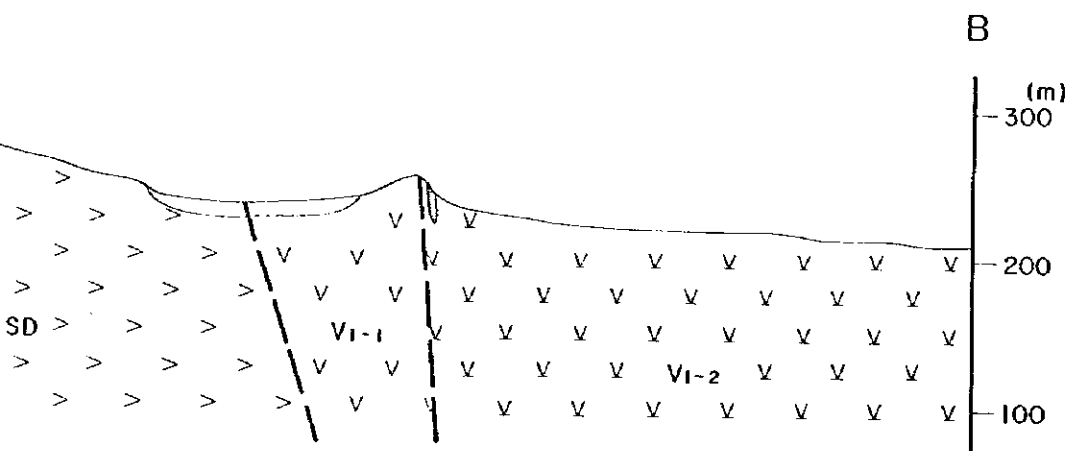
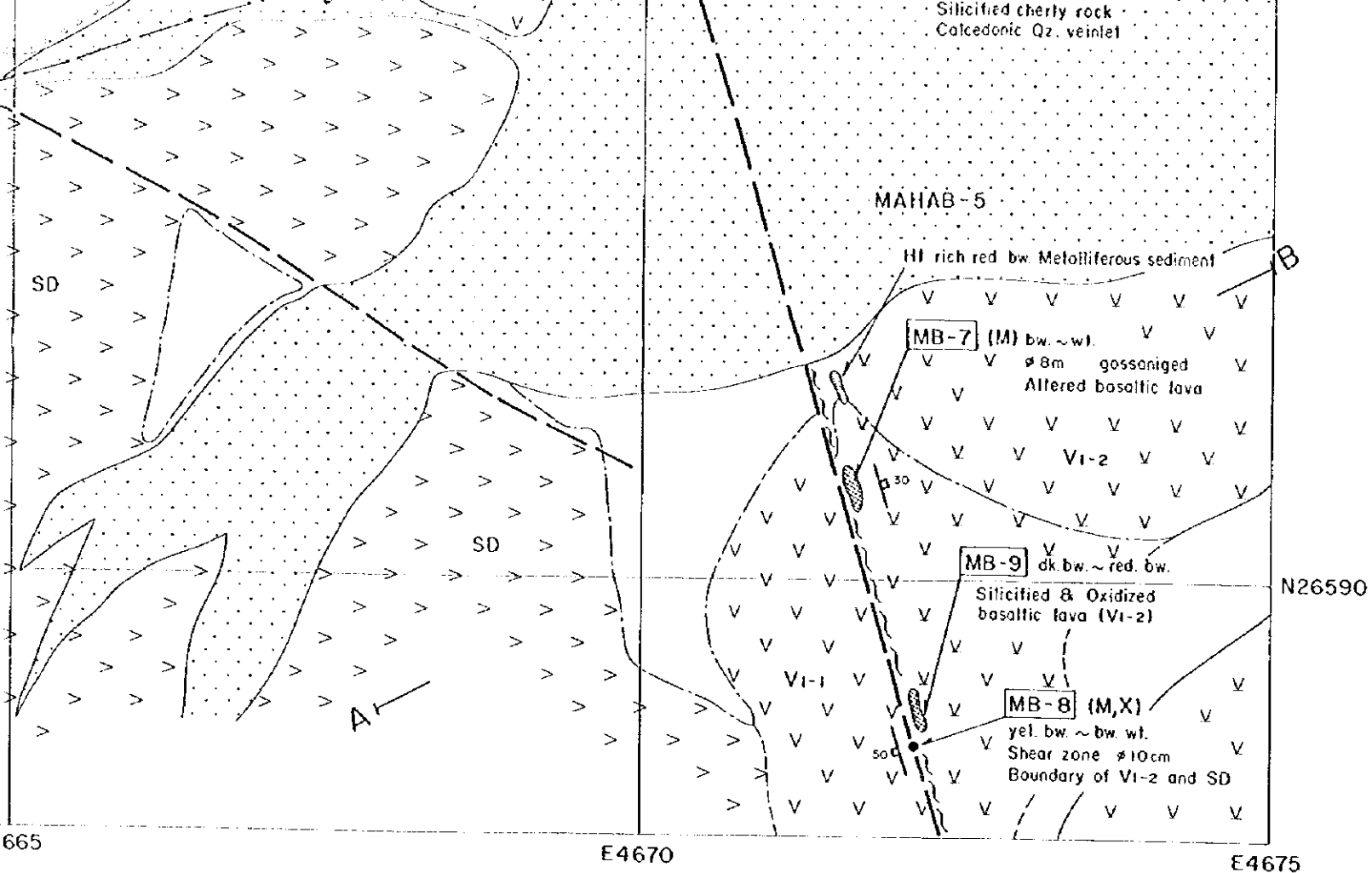
JAPAN INTERNATIONAL COOPERATION AGENCY
 METAL MINING AGENCY OF JAPAN
 MARCH, 1998



LEGEND

- | | | |
|--------------------------|--|--|
| | | Wadi |
| | | Alluvial fans and alluvium |
| BATINAH OLISTOSTROME | | Mb1 Olistolith derived from the Matba |
| | | Si1 Chert and silicified micritic limest |
| SAMAIL VOLCANIC ROCKS | | V2 Middle extrusives; basaltic to and lava and massive lava with two |
| | | V2C Volcanic conglomerate or breccia rocks composed of SD, V1-1, V1- |
| | | U1 Umber or metalliferous sediment with radiolarian chert |
| | | V1-2 Lower extrusives 2; basaltic pillow with small pillow lava and massiv |
| | | V1-1 Lower extrusives 1; basaltic pillow composed of big size pillow lava |
| | | SD Sheeted dyke; doleritic and ba |
| | | CG Cumulate gabbro |
| INTRUSIVES | | Td' Trondhjemite or quartz diorite |
| | | Gu' Gabbro |
| | | Slag |
| ECONOMIC GEOLOGY SYMBOLS | | |
| | | Gossanized mineral showing |
| | | Small gossanized mineral showing and name of mineral showing |
| | | Quartz vein and network |



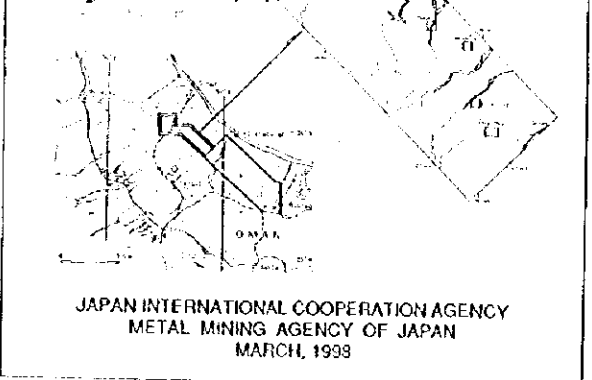


LEGEND

- Wadi
- Alluvial fans and alluvium
- BATINAH OLISTOSTROME**
 - Mb1 Olistolith derived from the Matbot Formation
 - Si1 Chert and silicified micritic limestone
- SAMAIL VOLCANIC ROCKS**
 - V2 Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene
 - V2C Volcanic conglomerate or breccia; reworked rocks composed of SD, V1-1, V1-2 and so on
 - U1 Umber or metalliferous sediments with radiolarian chert
 - V1-2 Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - V1-1 Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD Sheeted dyke; doleritic and basaltic dyke
 - CG Cumulate gabbro
- INTRUSIVES**
 - Td' Trondhemite or quartz diorite
 - Gu' Gabbro
 - Slag
- ECONOMIC GEOLOGY SYMBOLS**
 - Gossanized mineral showing
 - Small gossanized mineral showing and name of mineral showing
 - Quartz vein and network

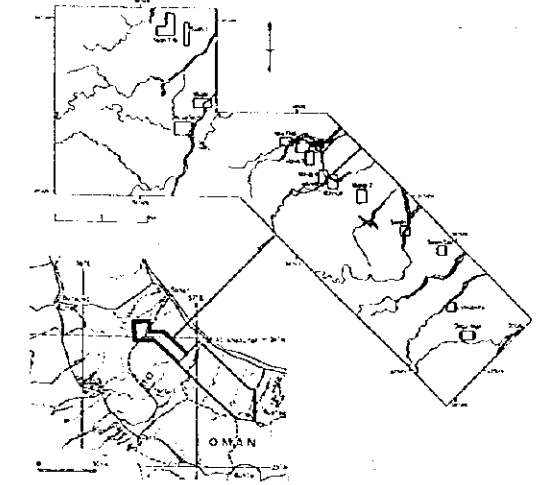
STRUCTURAL FEATURES

- 50 Strike and dip of bedding
- 50 Strike and dip of dykes and sills
- Fault; dashed where inferred or concealed
- [HK-1] : Sample location
- T : Thin section
- P : Polished section
- M : Chemical analysis
- X : X-ray diffraction analysis

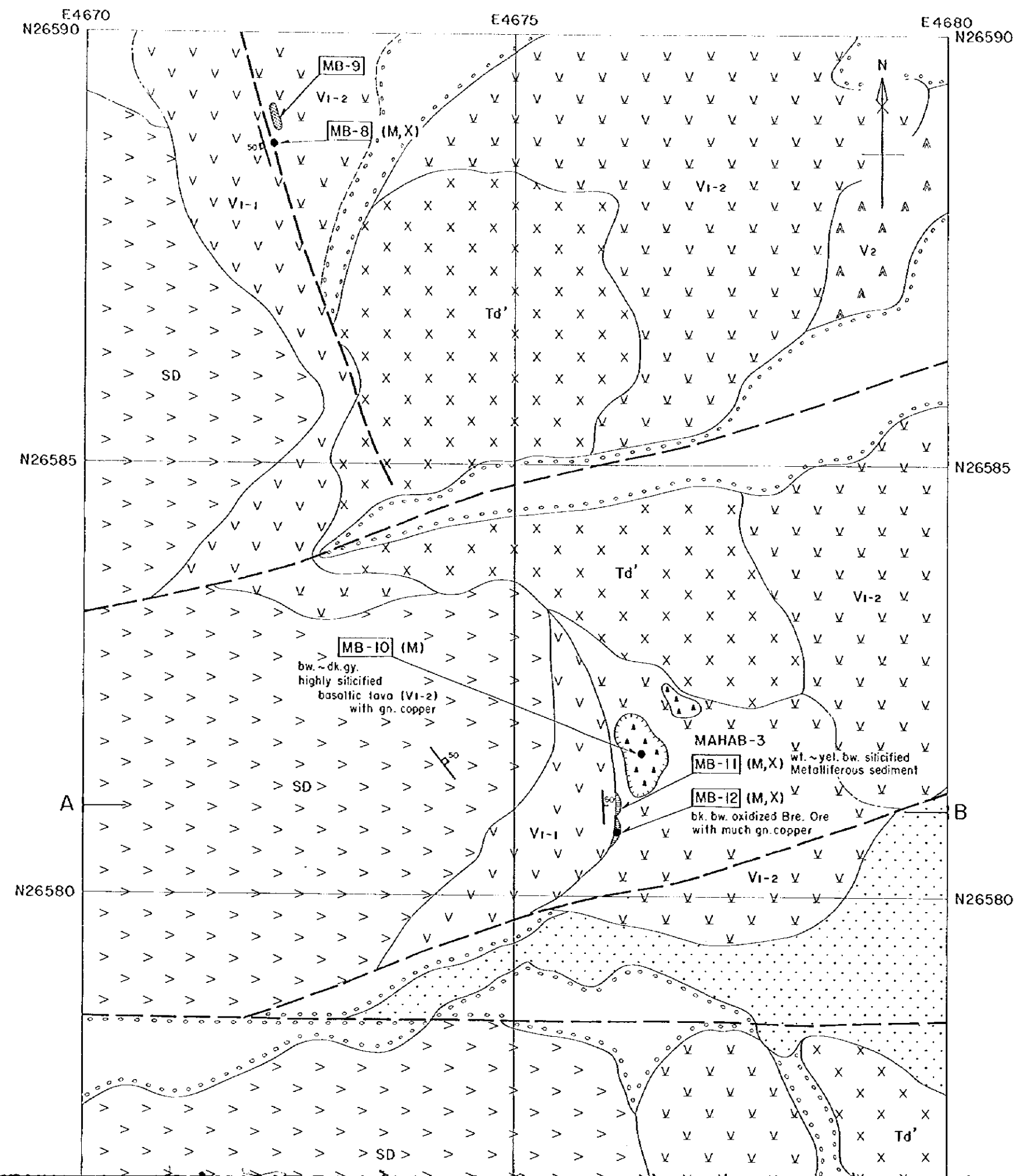


REPORT ON THE MINERAL EXPLORATION
IN
THE SOUTH BATINAH COAST AREA, SULTANATE OF OMAN
PHASE I

GEOLOGIC MAP AND PROFILE OF MAHAB 3
(Scale 1:2,500)



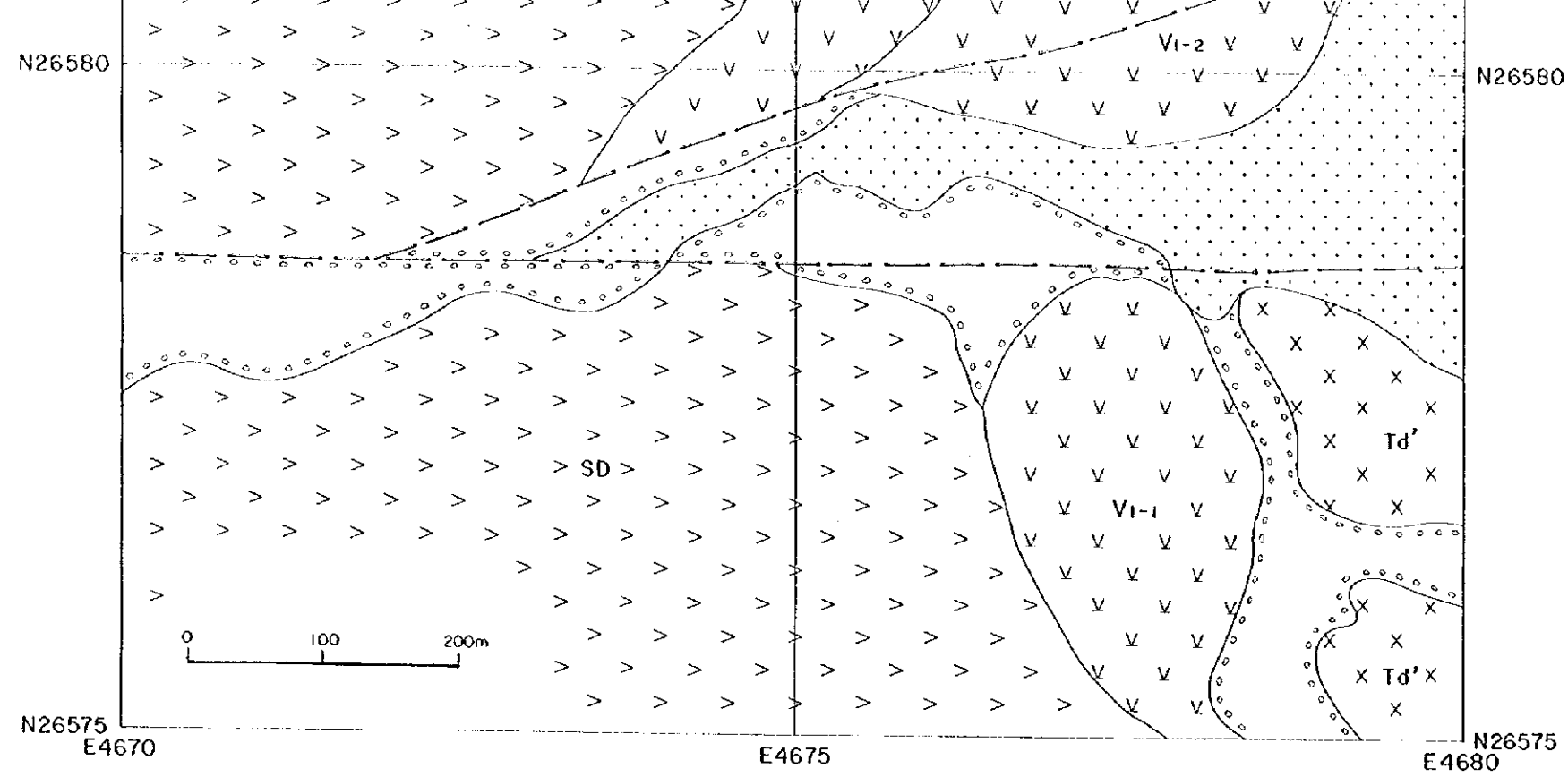
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
MARCH, 1998



LEGEND

- Wadi
- Alluvial fans and alluvium
- BATINAH OLISTOSTROME**
 - Mb1 Olistolith derived from the Matbat Formation
 - Si1 Chert and silicified micritic limestone
- SAMAIL VOLCANIC ROCKS**
 - V2 Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene
 - V2C Volcanic conglomerate or breccia; reworked rocks composed of SD, V1-1, V1-2 and so on
 - U1 Umber or metalliferous sediments with radiolarian chert
 - V1-2 Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - V1-1 Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD Sheeted dyke; doleritic and basaltic dyke
 - CG Cumulate gabbro
- INTRUSIVES**
 - Td' Trondhjemite or quartz diorite
 - Gu' Gabbro
 - Slag

ECONOMIC GEOLOGY SYMBOLS



- SAMAIL**
- VI-2 Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - VI-1 Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD Sheeted dyke; doleritic and basaltic dyke
 - CG Cumulate gabbro
- INTRUSIVES**
- Td' Trondhjemite or quartz diorite
 - Gu' Gabbro
 - Slag

ECONOMIC GEOLOGY SYMBOLS

- Gossanized mineral showing
- Small gossanized mineral showing and name of mineral showing
- Quartz vein and network

STRUCTURAL FEATURES

- Strike and dip of bedding
- Strike and dip of dykes and sills
- Fault; dashed where inferred or concealed

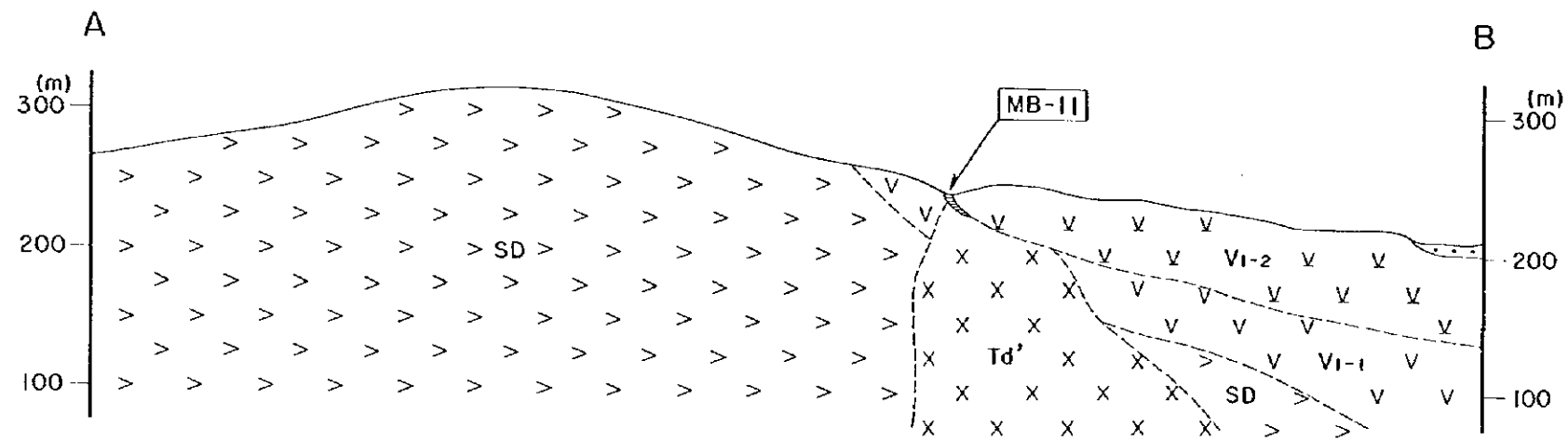
HK-1 : Sample location

T : Thin section

P : Polished section

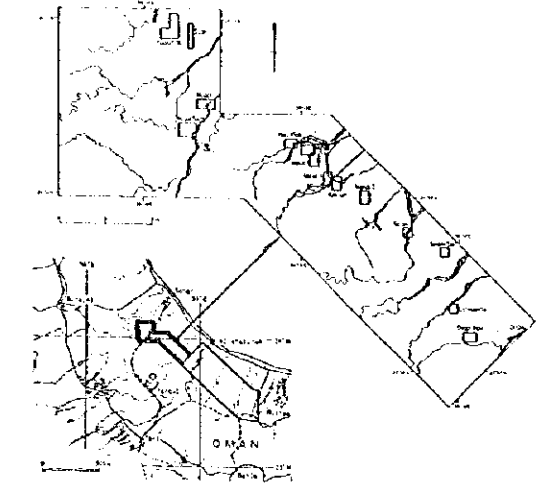
M : Chemical analysis

X : X-ray diffraction analysis

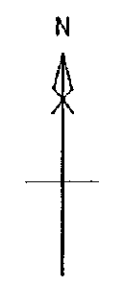
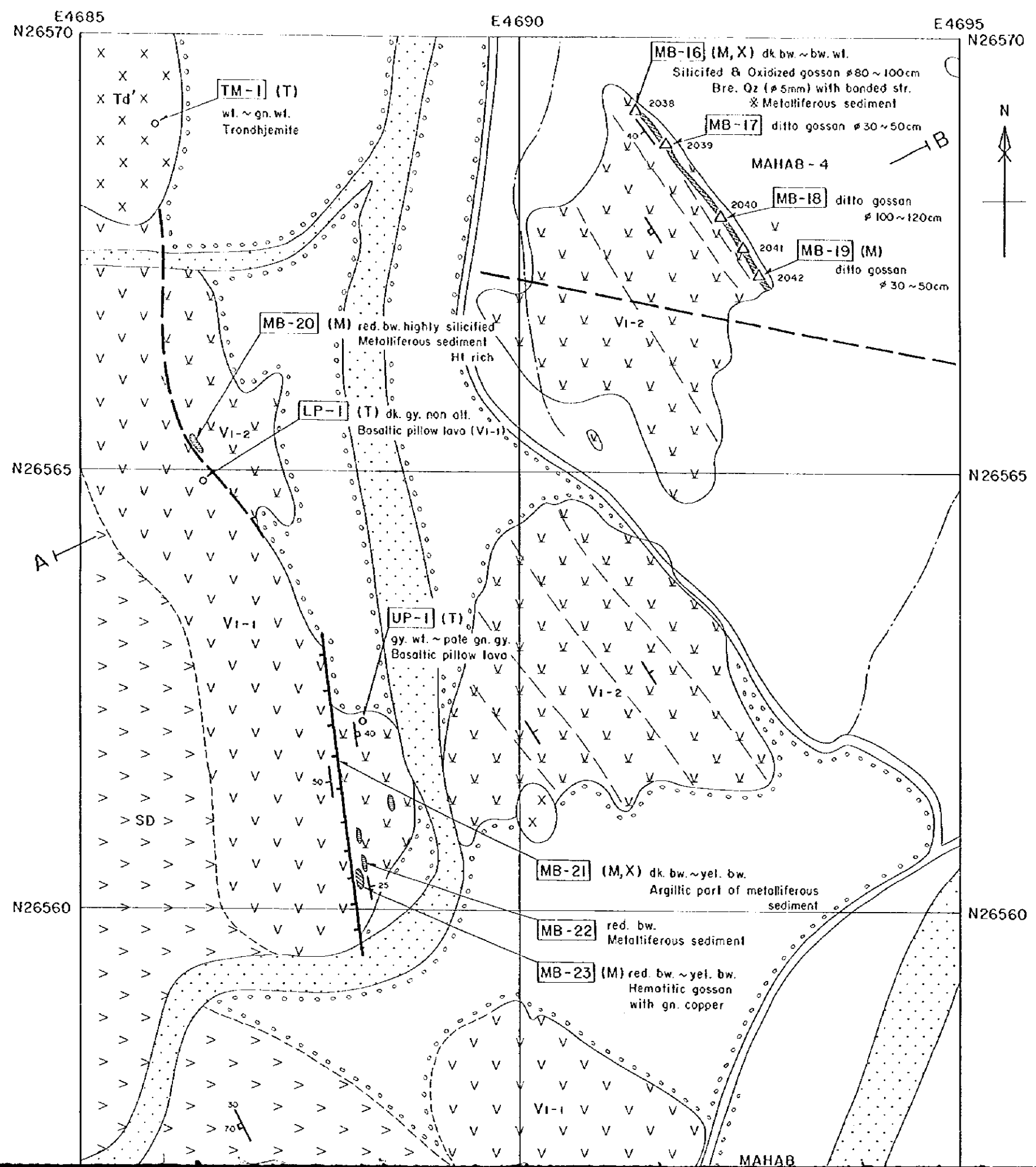


REPORT ON THE MINERAL EXPLORATION
IN
THE SOUTH BATINAH COAST AREA, SULTANATE OF OMAN
PHASE I

GEOLOGIC MAP AND PROFILE OF MAHAB 4
(Scale 1:2,500)

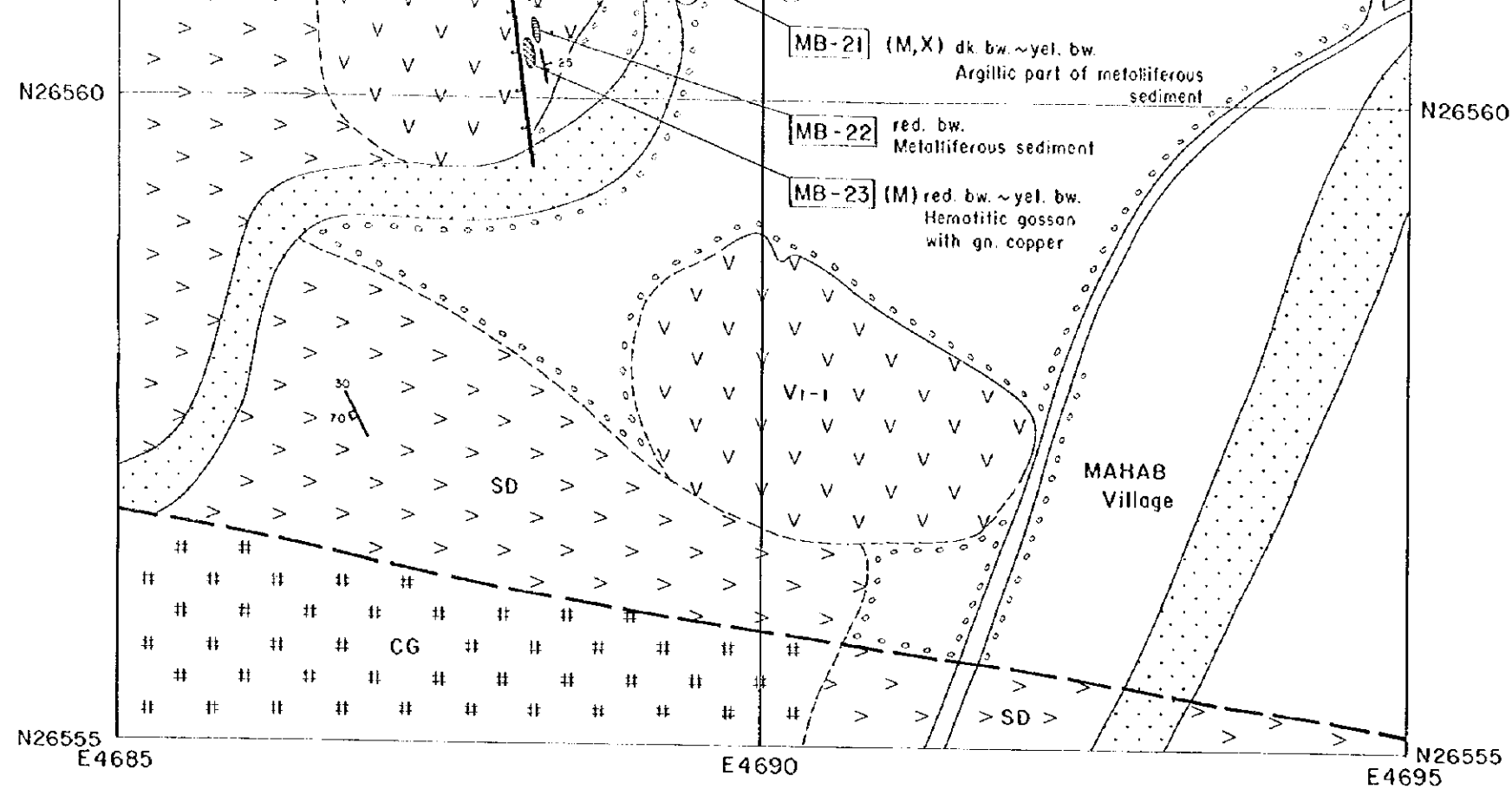


JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
MARCH, 1998



LEGEND

- | | | |
|-----------------------|--|---|
| | | Wadi |
| | | Alluvial fans and alluvium |
| BATINAH OLISTOSTROME | | Olistolith derived from the Matbal Formation |
| | | Chert and silicified micritic limestone |
| | | Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene |
| | | Volcanic conglomerate or breccia; reworked rocks composed of SD, V1-1, V1-2 and so on |
| SAMAIL VOLCANIC ROCKS | | Umber or metalliferous sediments with radiolarian chert |
| | | Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava |
| | | Lower extrusives 1; basaltic pillow lava composed of big size pillow lava |
| | | Sheeted dyke; doleritic and basaltic dyke |
| | | Cumulate gabbro |
| INTRUSIVES | | Trondhjemite or quartz diorite |
| | | Gabbro |
| | | Slag |



- SAMAIL VOLCANICS**
- VI-2** Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - VI-1** Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD** Sheeted dyke; doleritic and basaltic dyke
 - CG** Cumulate gabbro
- INTRUSIVES**
- Td'** Trondhjemite or quartz diorite
 - Gu'** Gabbro
 - Slag**

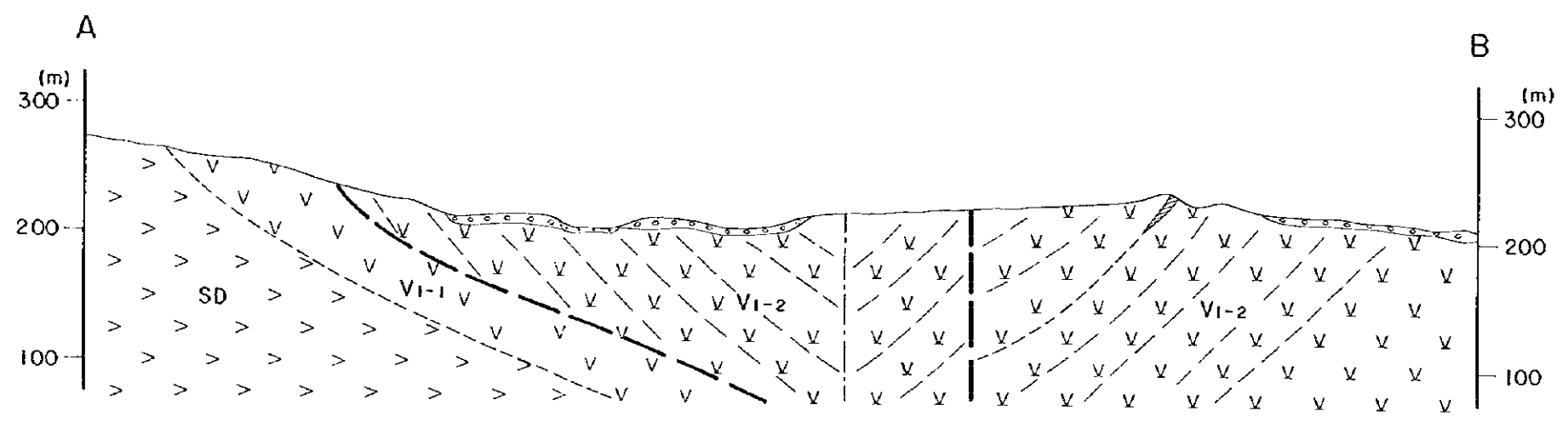
ECONOMIC GEOLOGY SYMBOLS

- Gossanized mineral showing
- Small gossanized mineral showing and name of mineral showing
- Quartz vein and network

STRUCTURAL FEATURES

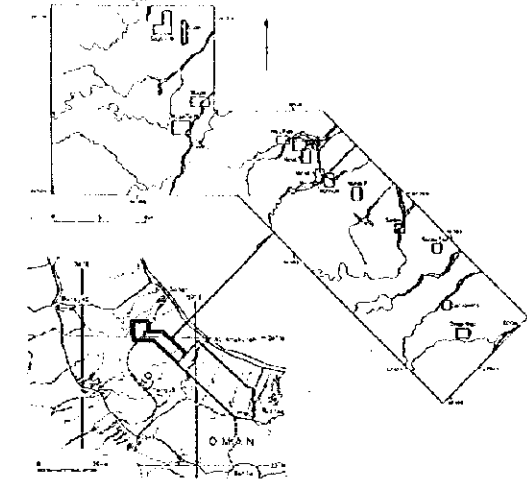
- Strike and dip of bedding
- Strike and dip of dykes and sills
- Fault; dashed where inferred or concealed
- HK-1**: Sample location

- T**: Thin section
- P**: Polished section
- M**: Chemical analysis
- X**: X-ray diffraction analysis

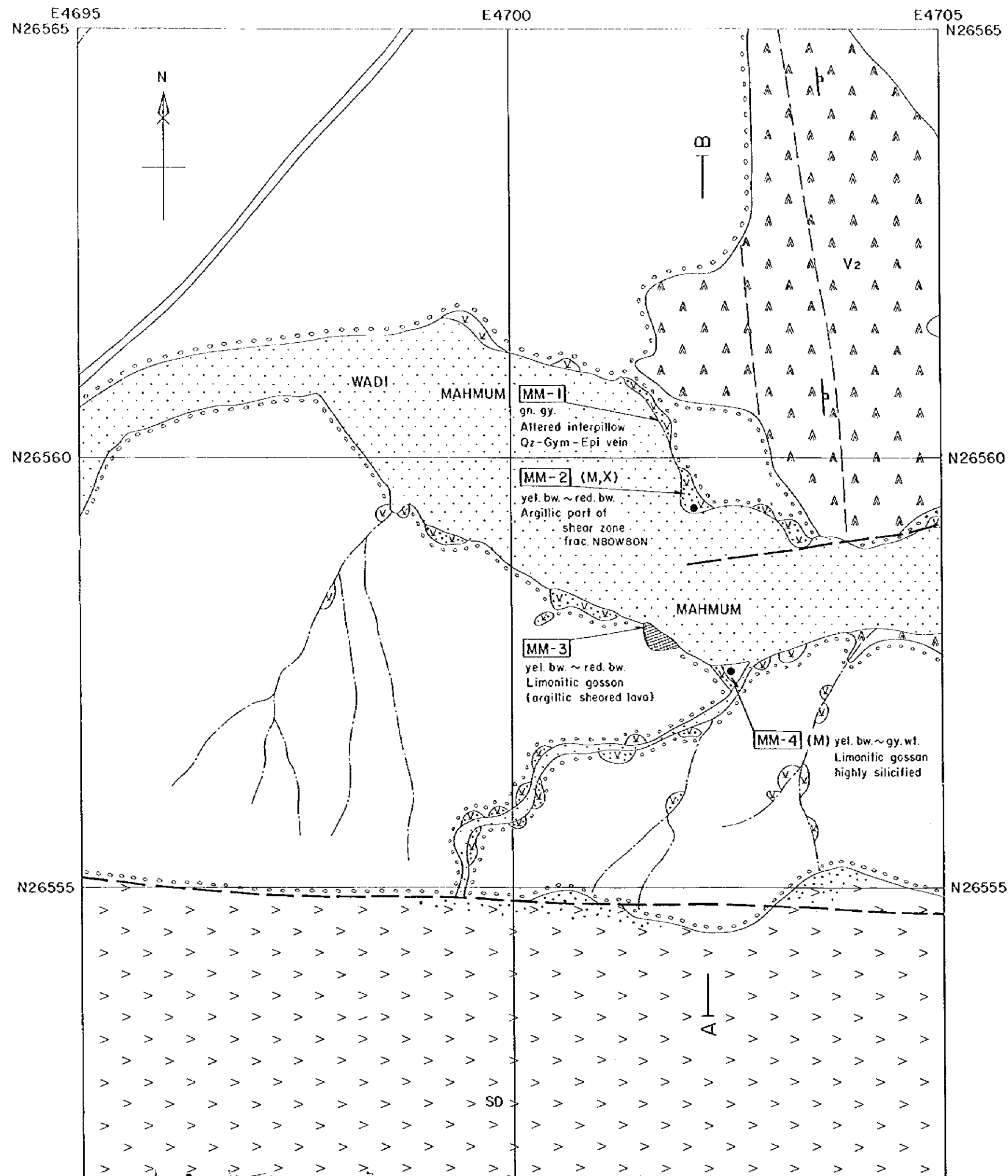


REPORT ON THE MINERAL EXPLORATION
IN
THE SOUTH BATINAH COAST AREA, SULTANATE OF OMAN
PHASE I

GEOLOGIC MAP AND PROFILE OF MAHMUM
(Scale 1:2,500)



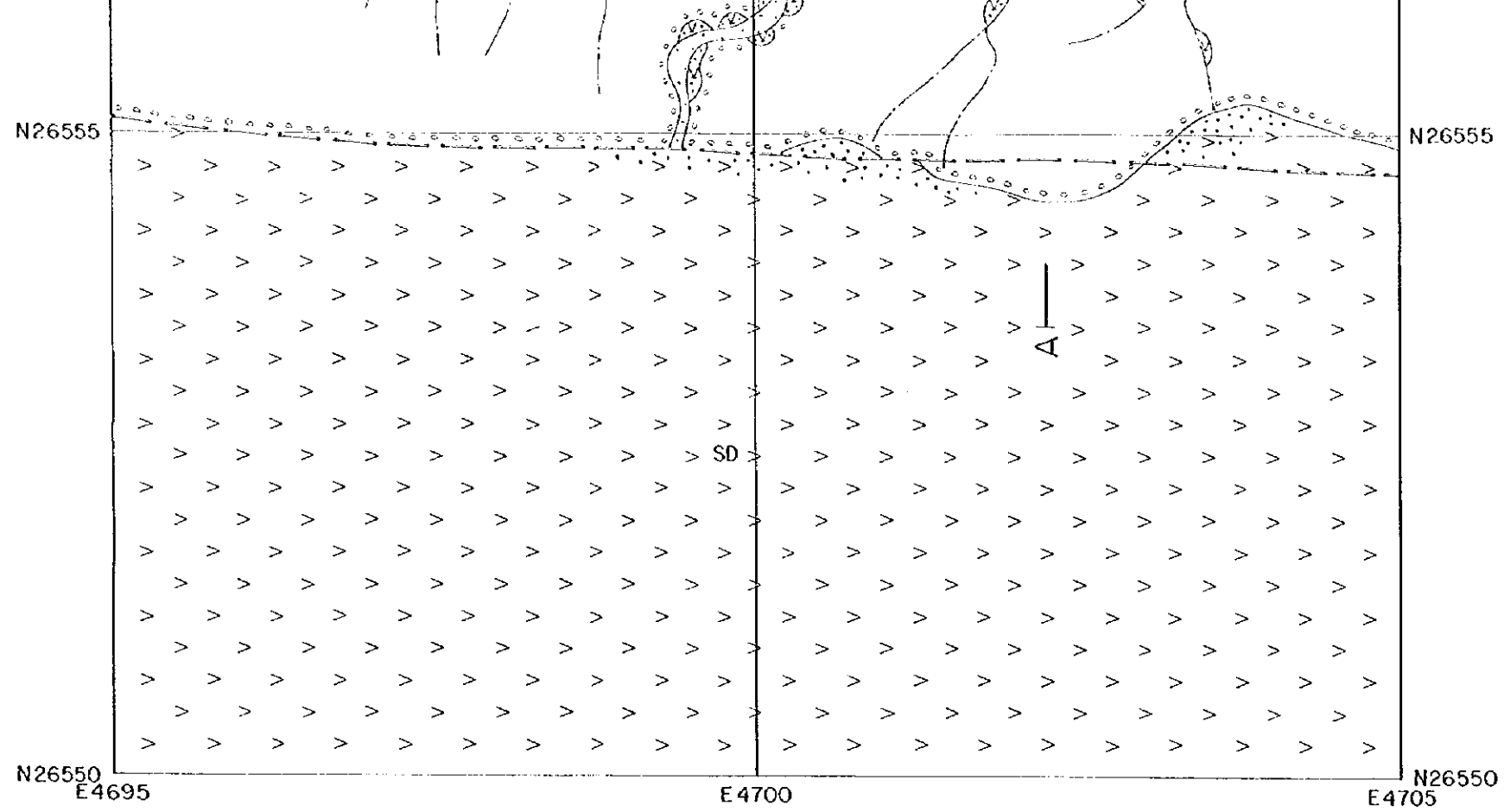
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
MARCH, 1998



LEGEND

- Wadi
- Alluvial fans and alluvium
- BATINAH OLISTOSTROME**
 - Mb1 Olistolith derived from the Matbat Formation
 - Si1 Chert and silicified micritic limestone
- SAMAIL VOLCANIC ROCKS**
 - V2 Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene
 - V2C Volcanic conglomerate or breccia; reworked rocks composed of SD, V1-1, V1-2 and so on
 - U1 Umber or metalliferous sediments with radiolarian chert
 - V1-2 Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - V1-1 Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD Sheeted dyke; doleritic and basaltic dyke
 - CG Cumulate gabbro
- INTRUSIVES**
 - Td' Trondhjemite or quartz diorite
 - Gu' Gabbro
 - Slog Slog

ECONOMIC GEOLOGY SYMBOLS



- SAMAIL VOLC**
- U1 Older of metamorphosed sediments with radiolarian chert
 - V1-2 Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - V1-1 Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD Sheeted dyke; doleritic and basaltic dyke
 - CG Cumulate gabbro
- INTRUSIVES**
- Td' Trondhjemite or quartz diorite
 - Gu' Gabbro
 - Slag

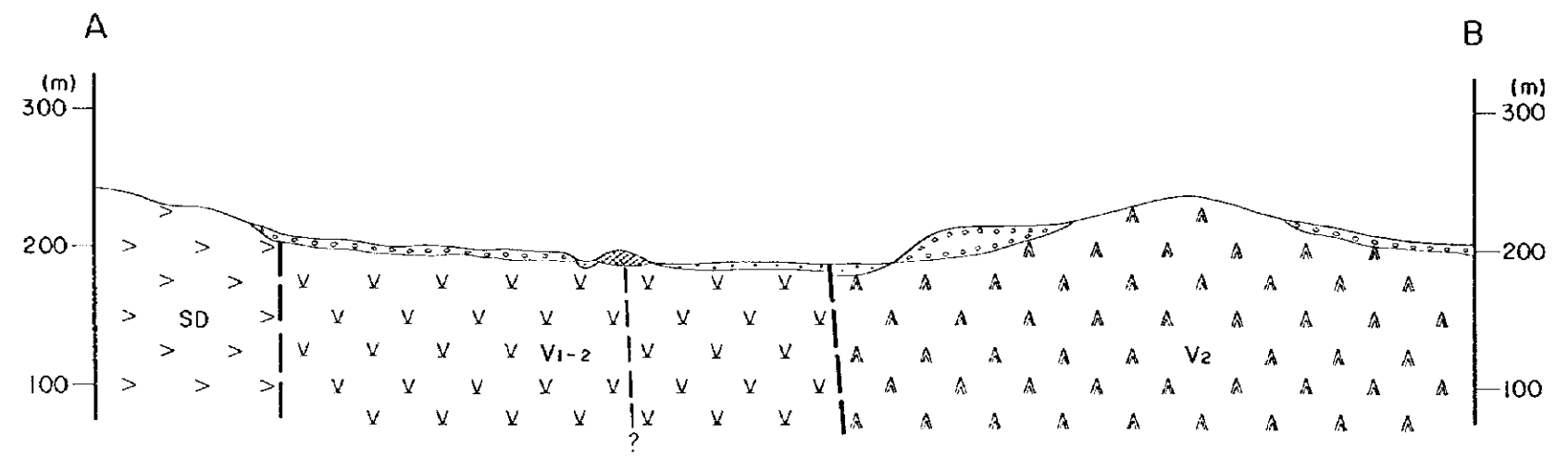
ECONOMIC GEOLOGY SYMBOLS

- Gossanized mineral showing
- Small gossanized mineral showing and name of mineral showing
- Quartz vein and network

STRUCTURAL FEATURES

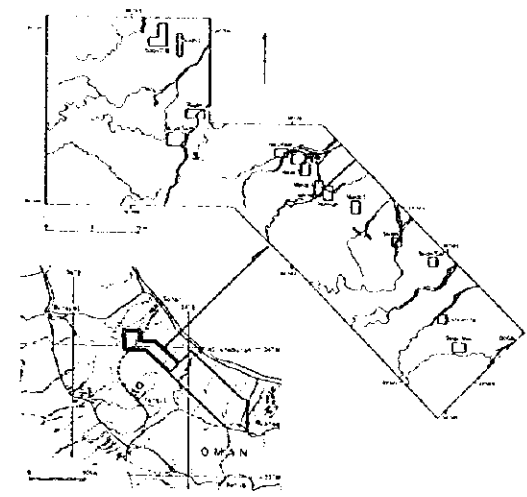
- Strike and dip of bedding
- Strike and dip of dykes and sills
- Fault; dashed where inferred or concealed

- [HK-1]** : Sample location
- T : Thin section
- P : Polished section
- M : Chemical analysis
- X : X-ray diffraction analysis

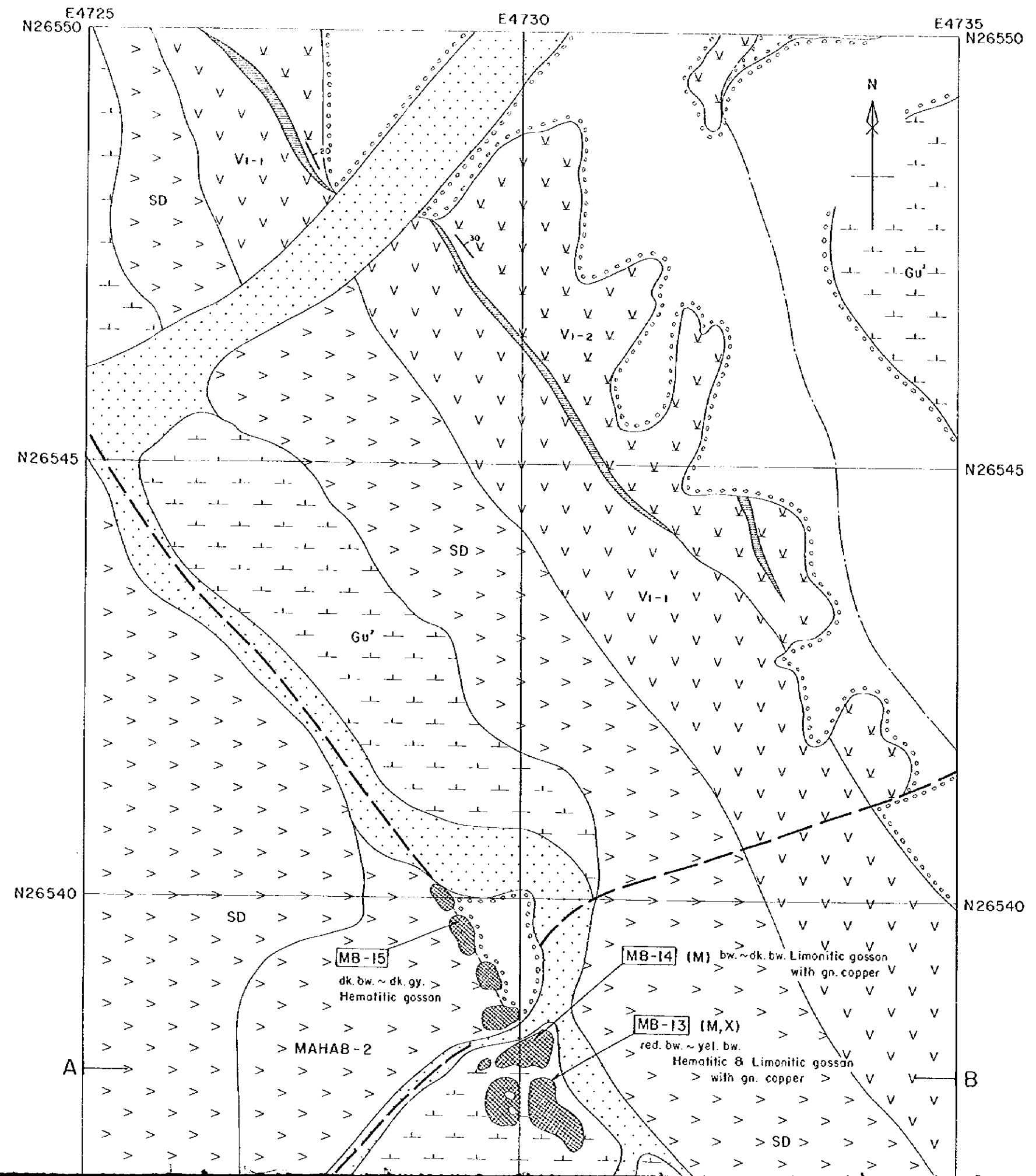


REPORT ON THE MINERAL EXPLORATION
IN
THE SOUTH BATINAH COAST AREA, SULTANATE OF OMAN
PHASE I

GEOLOGIC MAP AND PROFILE OF MAHAB 2
(Scale 1:2,500)



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
MARCH, 1998



LEGEND

- Wadi
- Alluvial fans and alluvium
- BATINAH OLISTOSTROME**
 - Mb1 Olistolith derived from the Maibat Formation
 - Si1 Chert and silicified micritic limestone
- SAMAİL VOLCANIC ROCKS**
 - V2 Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene
 - V2C Volcanic conglomerate or breccia; reworked rocks composed of SD, V1-1, V1-2 and so on
 - U1 Umber or metalliferous sediments with radiolarian chert
 - V1-2 Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - V1-1 Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD Sheeted dyke; doleritic and basaltic dyke
 - CG Cumulate gabbro
- INTRUSIVES**
 - Td' Trondhjemite or quartz diorite
 - Gu' Gabbro
 - Slag

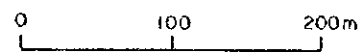
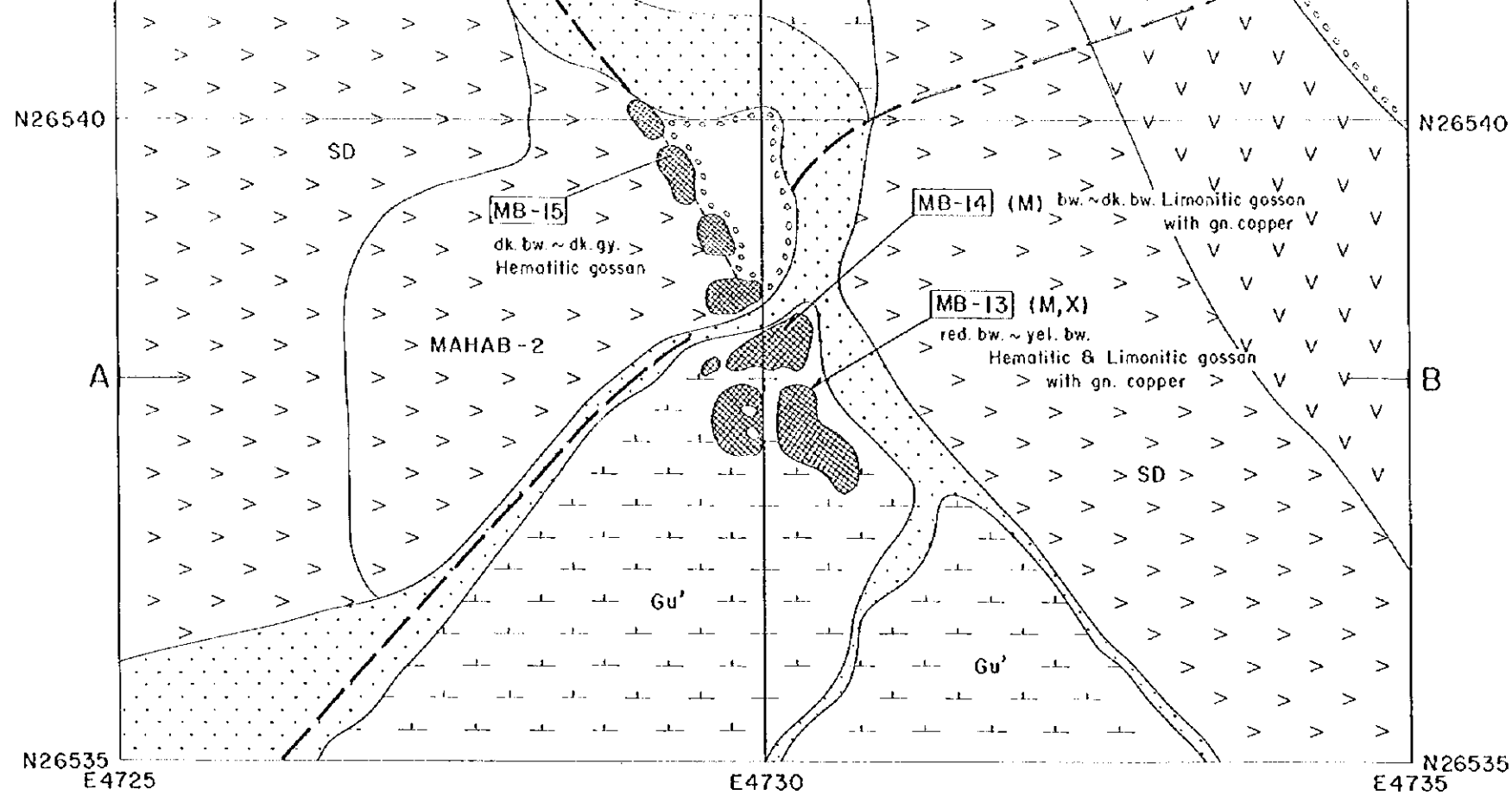
ECONOMIC GEOLOGY SYMBOLS

MB-15
dk. bw. ~ dk. gy.
Hematitic gossan

MB-14 (M) bw. ~ dk. bw. Limonitic gossan
with gn. copper

MB-13 (M, X)
red. bw. ~ yel. bw.
Hematitic & Limonitic gossan
with gn. copper

MAHAB-2



- SAMAIL VOL**
- with radiolarian chert
 - VI-2 Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - VI-1 Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD Sheeted dyke; doleritic and basaltic dyke
 - CG Cumulate gabbro
- INTRUSIVES**
- Td' Trondhjemite or quartz diorite
 - Gu' Gabbro
 - Stag

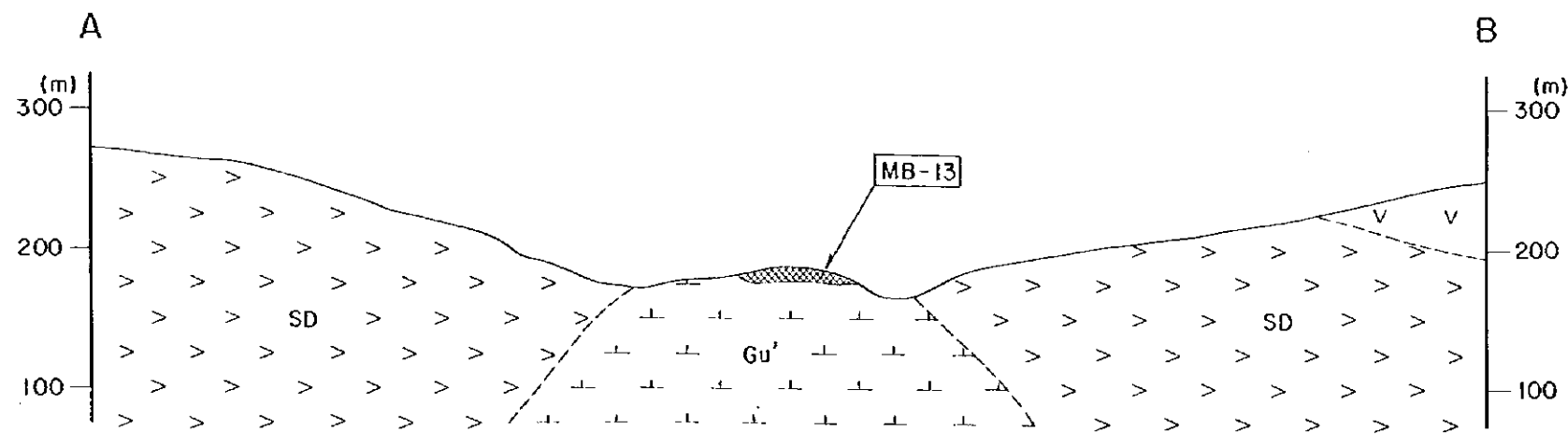
ECONOMIC GEOLOGY SYMBOLS

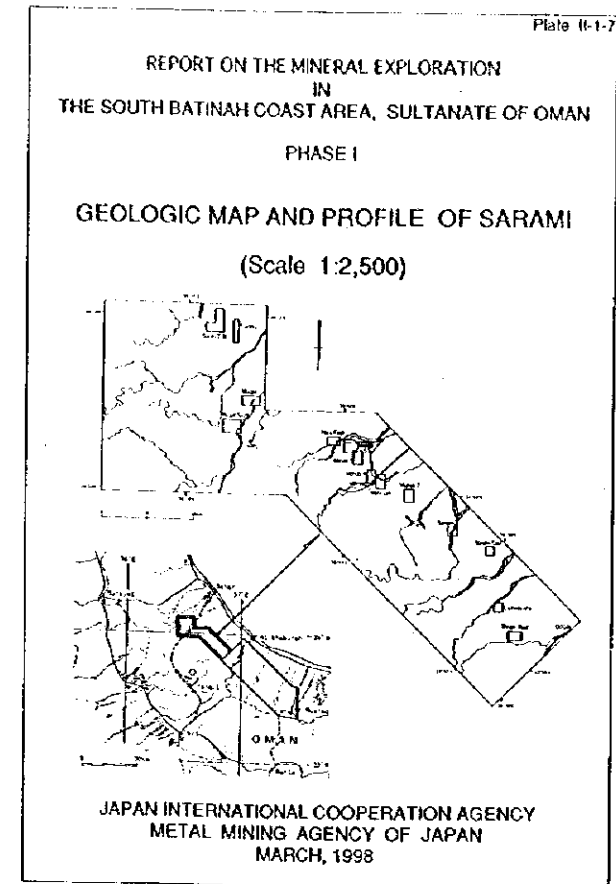
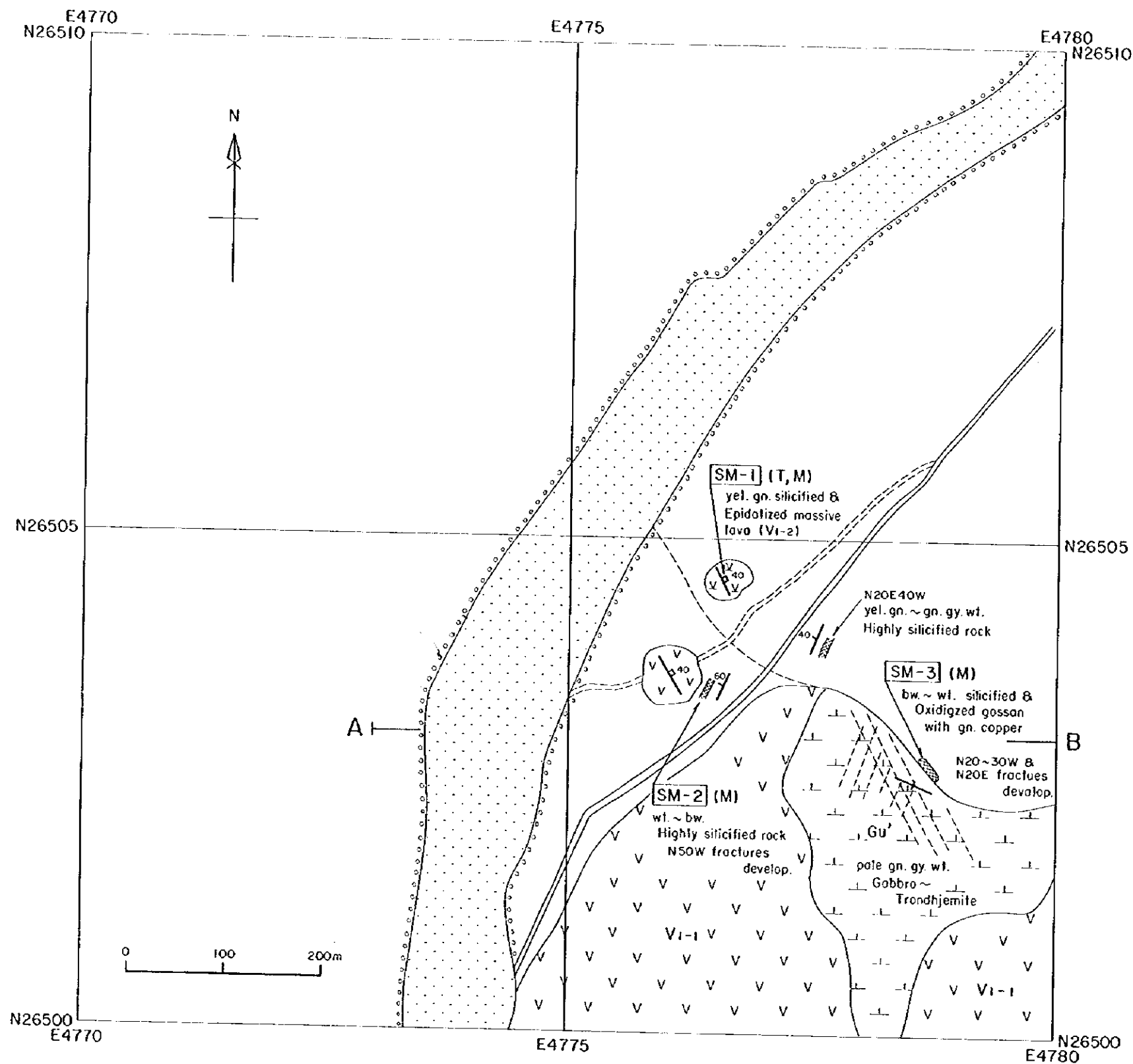
- Gossanized mineral showing
- Small gossanized mineral showing and name of mineral showing
- Quartz vein and network

STRUCTURAL FEATURES

- Strike and dip of bedding
- Strike and dip of dykes and sills
- Fault; dashed where inferred or concealed

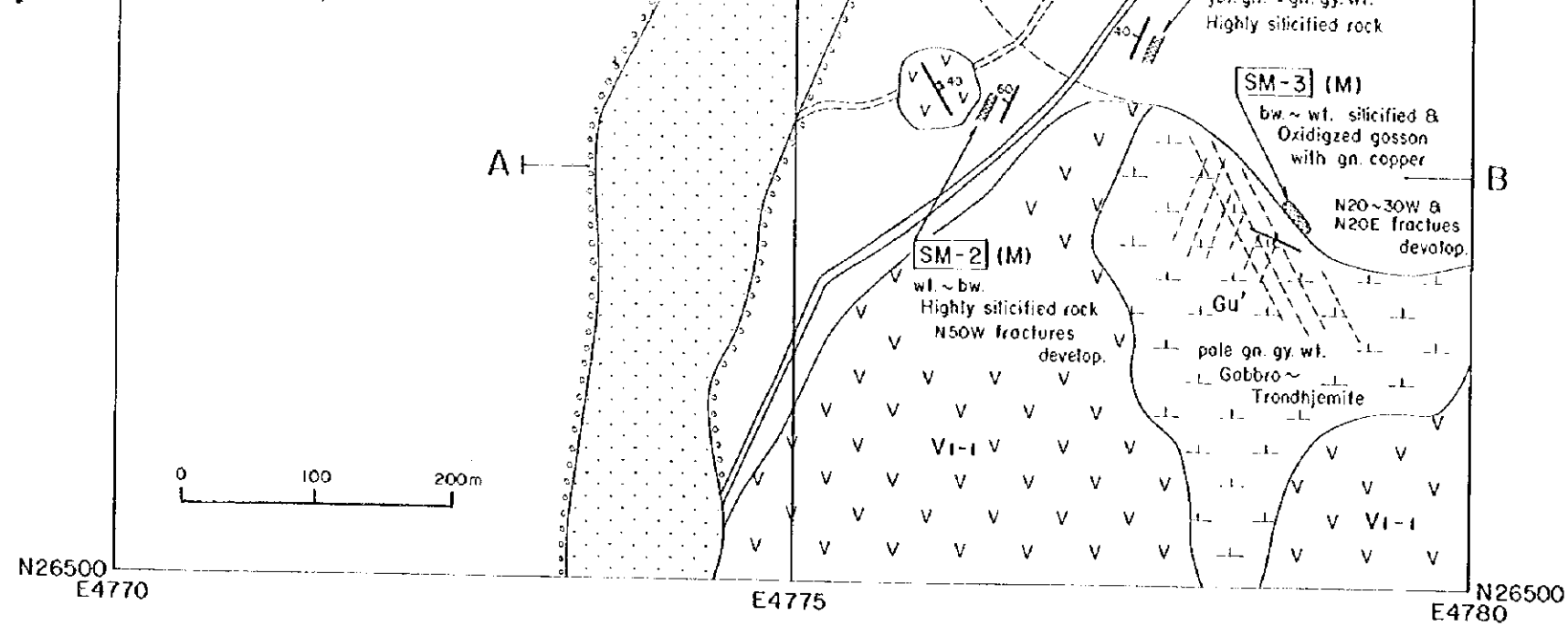
- HK-1 : Sample location
- T : Thin section
- P : Polished section
- M : Chemical analysis
- X : X-ray diffraction analysis





LEGEND

| | | |
|-----------------------|------|---|
| | | Wadi |
| | | Alluvial fans and alluvium |
| BATINAH | Mb1 | Olistolith derived from the Matbat Formation |
| | Si1 | Chert and silicified micritic limestone |
| SAMAIL VOLCANIC ROCKS | V2 | Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene |
| | V2C | Volcanic conglomerate or breccia; reworked rocks composed of SD, V1-1, V1-2 and so on |
| | U1 | Umbur or metalliferous sediments with radiolarian chert |
| | V1-2 | Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava |
| | V1-1 | Lower extrusives 1; basaltic pillow lava composed of big size pillow lava |
| INTRUSIVES | SD | Sheeted dyke; doleritic and basaltic dyke |
| | CG | Cumulate gabbro |
| | Td' | Trondhemite or quartz diorite |
| | Gu' | Gabbro |
| | | Slag |



- BATINAH OLISTOSTROME**
- Wadi
 - Alluvial fans and alluvium
 - Mb1 Olistolith derived from the Matbat Formation
 - Si1 Chert and silicified micritic limestone
- SAMAIL VOLCANIC ROCKS**
- V2 Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene
 - V2C Volcanic conglomerate or breccia; reworked rocks composed of SD, Vi-1, Vi-2 and so on
 - U1 Umber or metalliferous sediments with radiolarian chert
 - Vi-2 Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - Vi-1 Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD Sheeted dyke; doleritic and basaltic dyke
 - CG Cumulate gabbro
- INTRUSIVES**
- Td' Trondhemite or quartz diorite
 - Gu' Gabbro
 - Slog Slog

ECONOMIC GEOLOGY SYMBOLS

- Gossanized mineral showing
- Small gossanized mineral showing and name of mineral showing
- Quartz vein and network

STRUCTURAL FEATURES

- Strike and dip of bedding
- Strike and dip of dykes and sills
- Fault; dashed where inferred or concealed

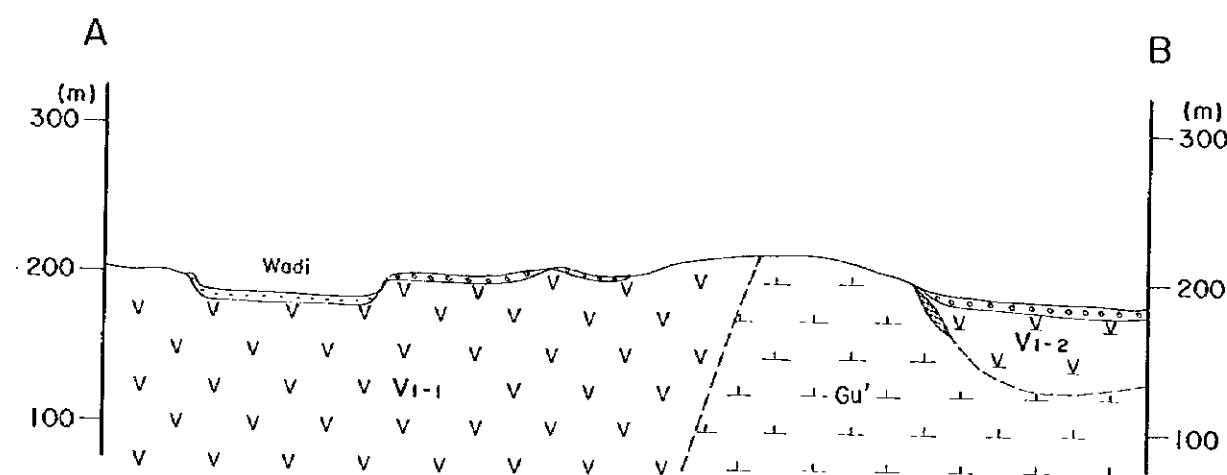
HK-1 : Sample location

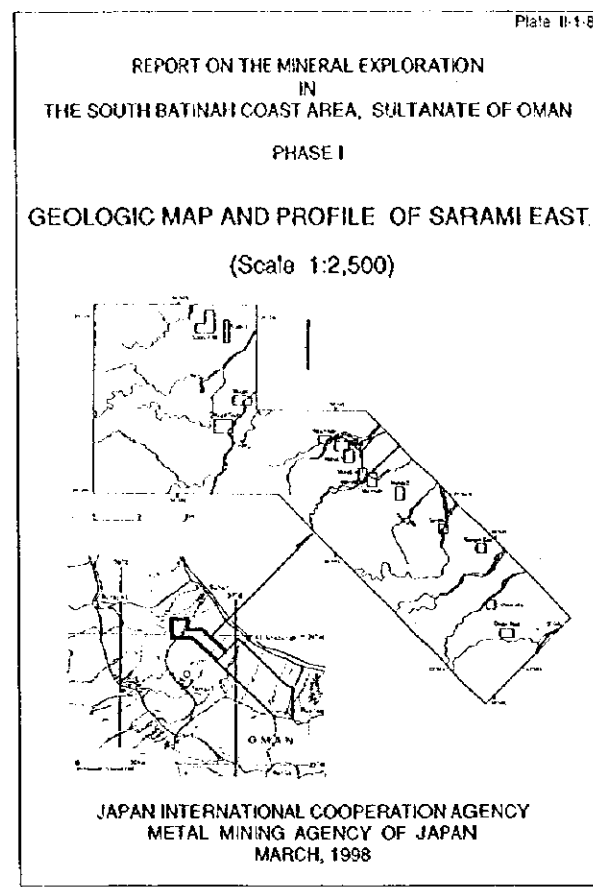
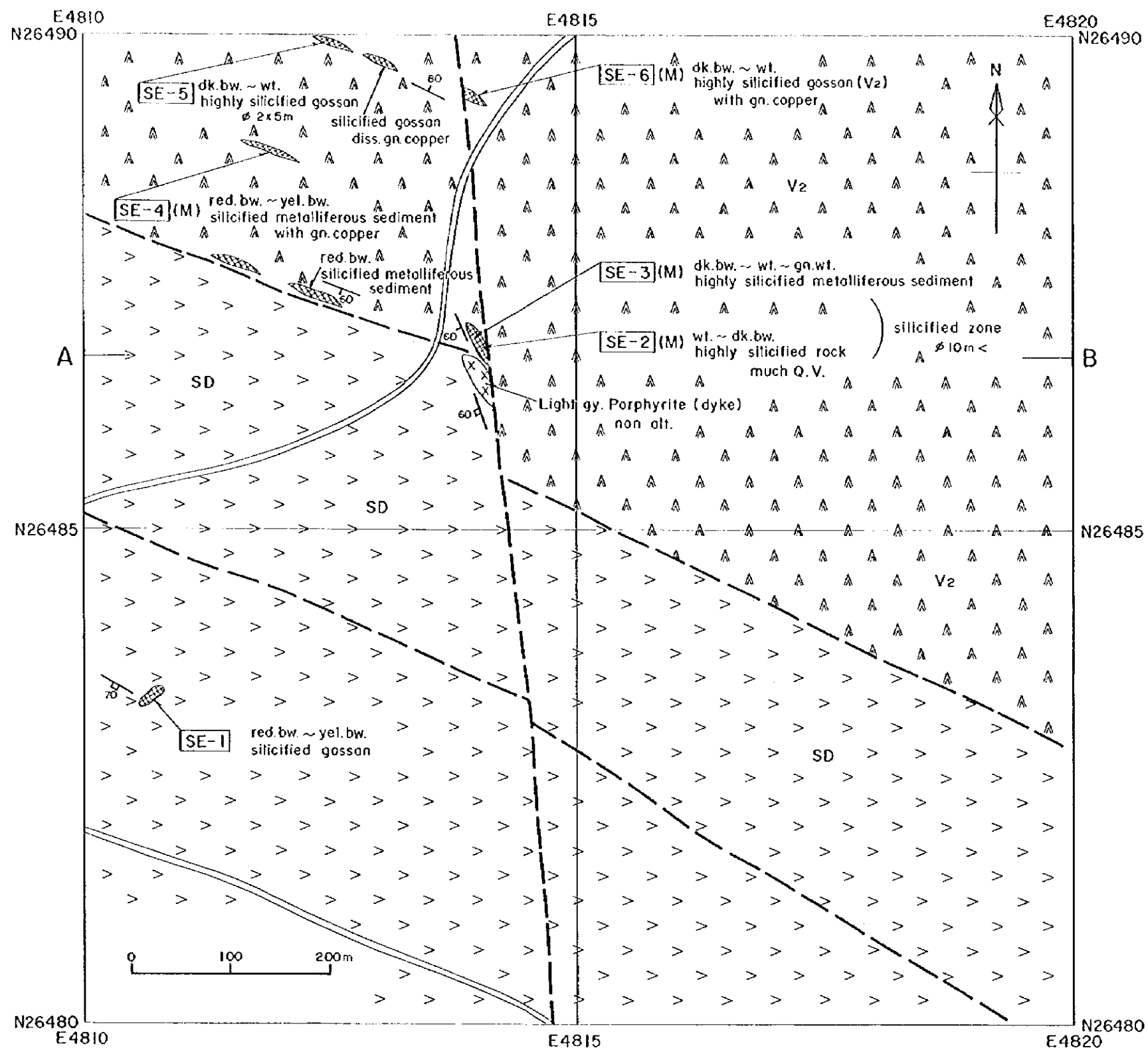
T : Thin section

P : Polished section

M : Chemical analysis

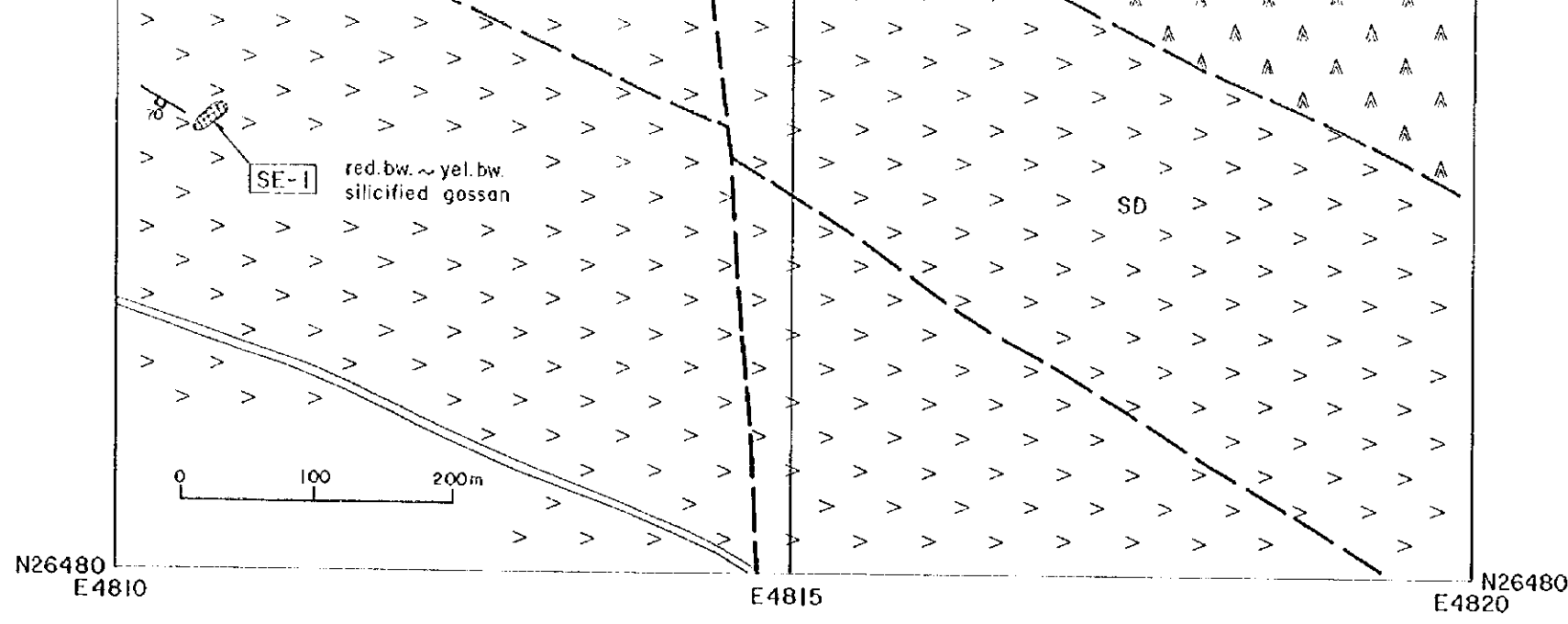
X : X-ray diffraction analysis





LEGEND

| | | |
|-----------------------|--|--|
| | | Wadi |
| | | Alluvial fans and alluvium |
| BATINAH OLISTOSTROME | | Olistolith derived from the Matbat Formation |
| | | Chert and silicified micritic limestone |
| SAMAIL VOLCANIC ROCKS | | Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene |
| | | Volcanic conglomerate or breccia; reworked rocks composed of SD, V ₁₋₁ , V ₁₋₂ and so on |
| | | UMBER or metalliferous sediments with radiolarian chert |
| | | Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava |
| | | Lower extrusives 1; basaltic pillow lava composed of big size pillow lava |
| | | Sheeted dyke; doleritic and basaltic dyke |
| | | Cumulate gabbro |
| INTRUSIVES | | Trondhjemite or quartz diorite |
| | | Gabbro |
| | | Slag |



- BATINAH OLISTOSTROME**
- Wadi
 - Alluvial fans and alluvium
 - Mb1 Olistolith derived from the Matbat Formation
 - Si1 Chert and silicified micritic limestone
- SAMAIL VOLCANIC ROCKS**
- V2 Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene
 - V2C Volcanic conglomerate or breccia; reworked rocks composed of SD, V1-1, V1-2 and so on
 - U1 Umber or metalliferous sediments with radiolarian chert
 - V1-2 Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - V1-1 Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD Sheeted dyke; doleritic and basaltic dyke
 - CG Cumulate gabbro
- INTRUSIVES**
- Td' Trondhjemite or quartz diorite
 - Gu' Gabbro
 - Slag

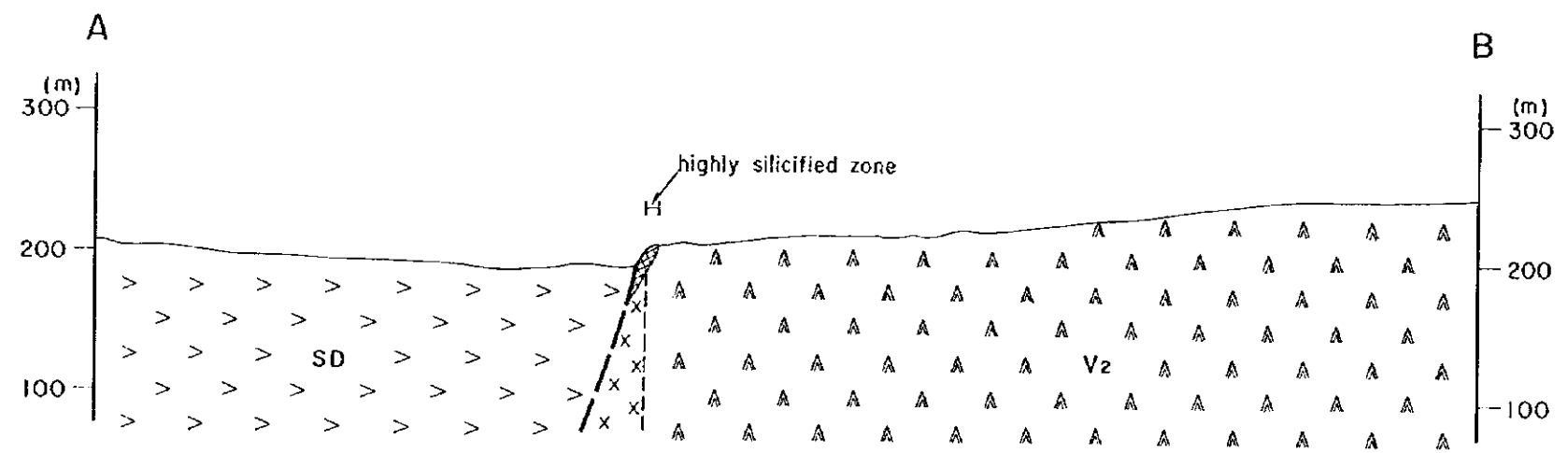
ECONOMIC GEOLOGY SYMBOLS

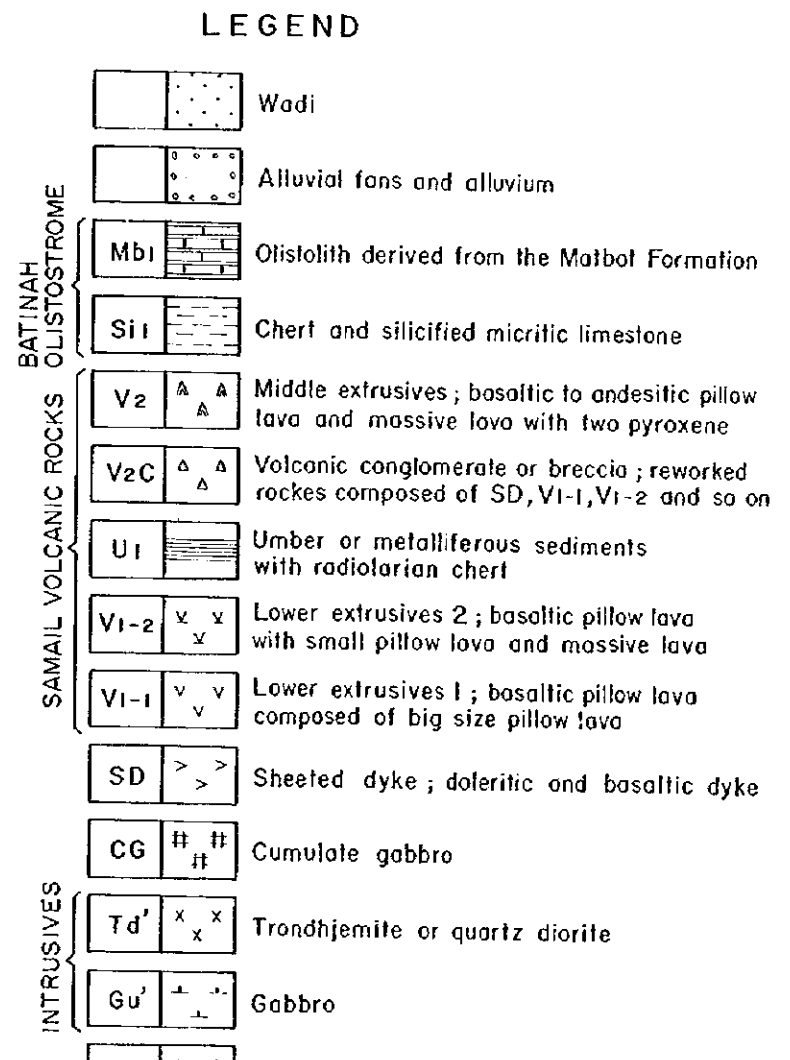
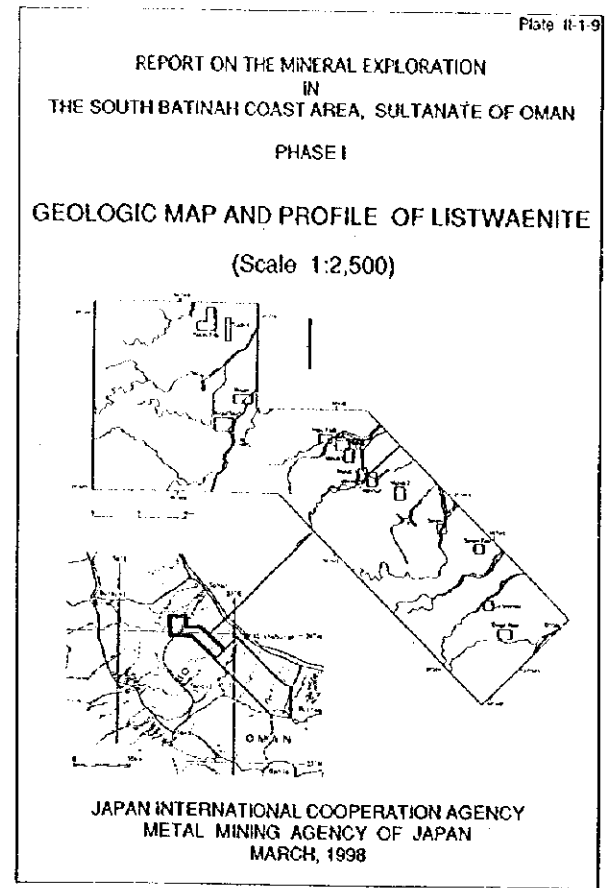
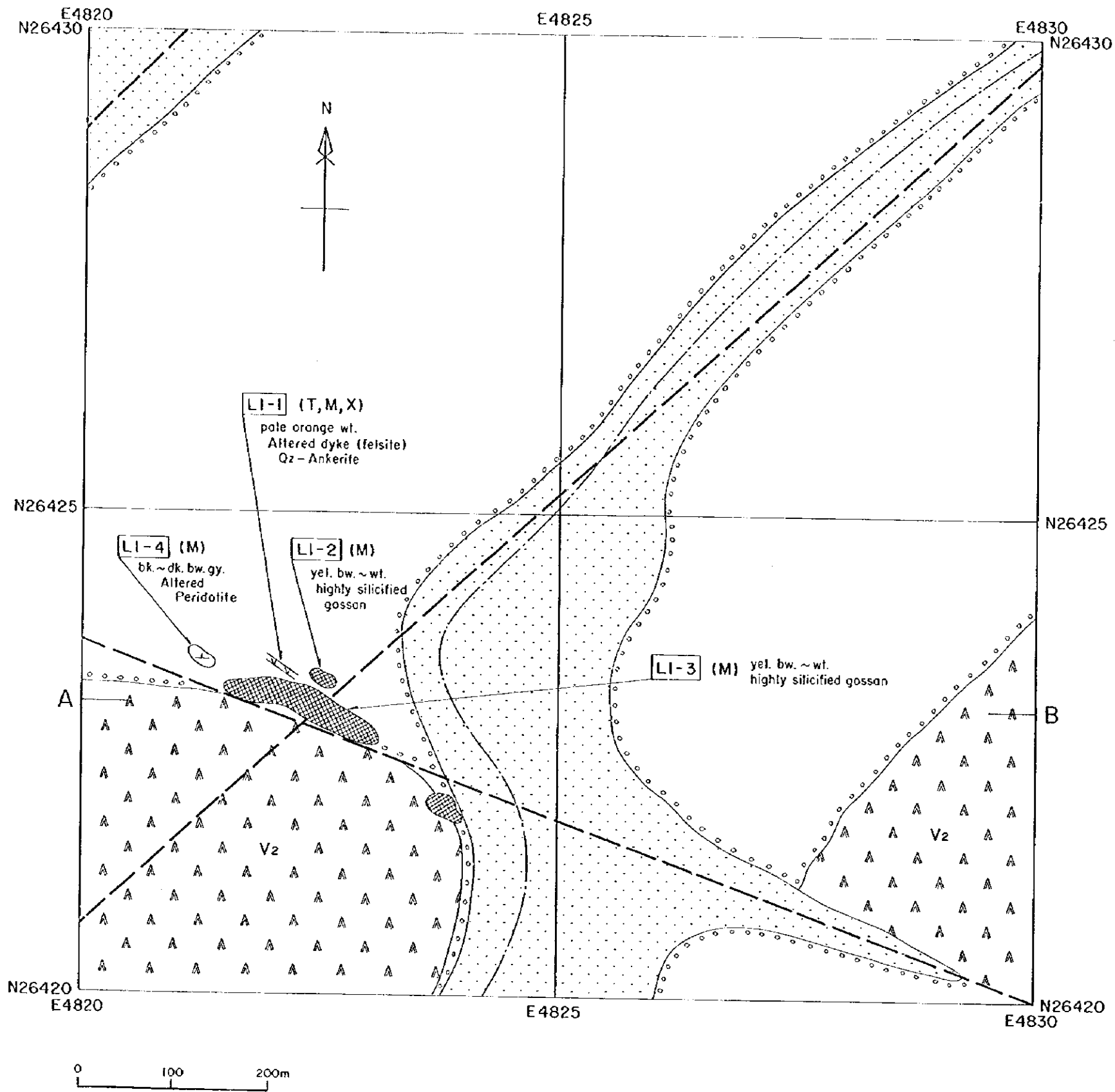
- Gossanized mineral showing
- Small gossanized mineral showing and name of mineral showing
- Quartz vein and network

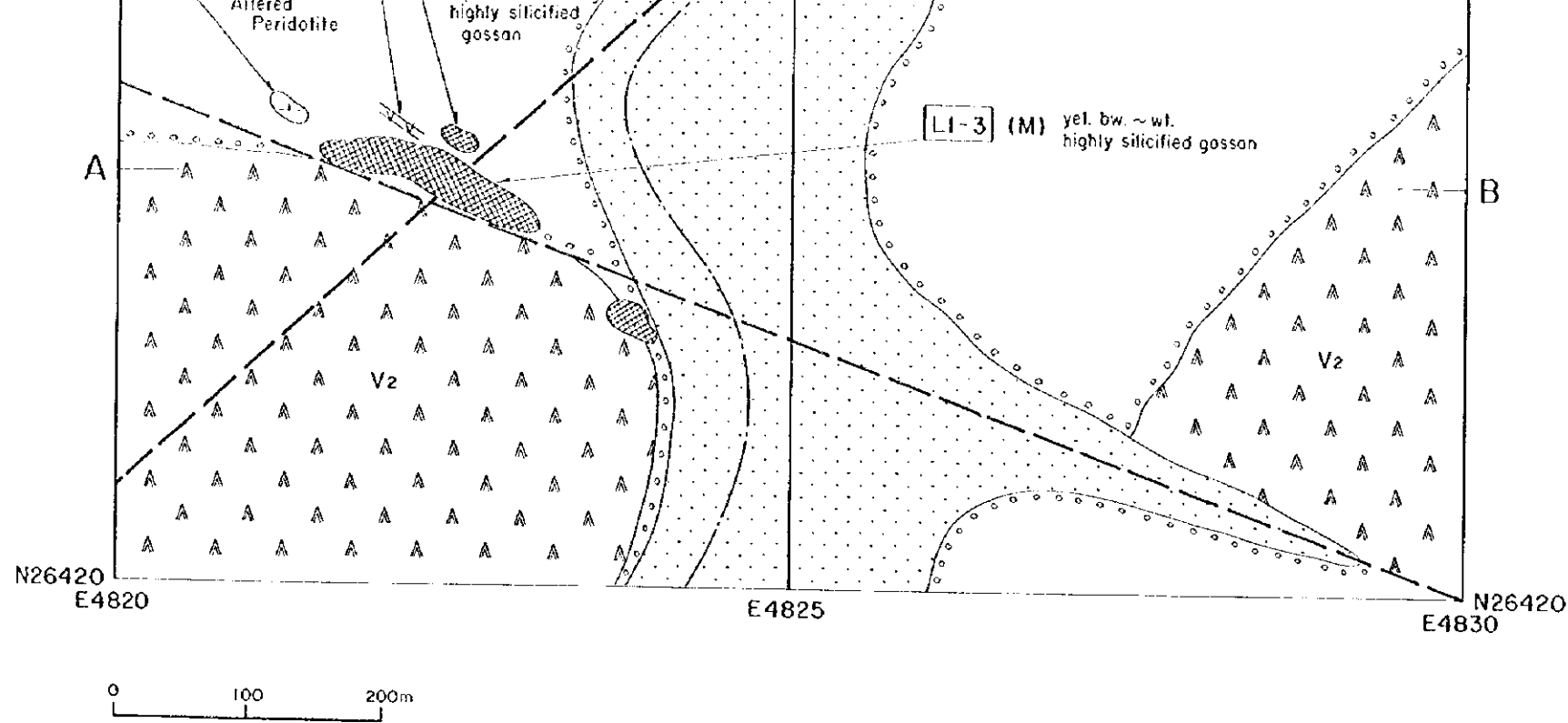
STRUCTURAL FEATURES

- 50° Strike and dip of bedding
- 50° Strike and dip of dykes and sills
- Fault; dashed where inferred or concealed

- HK-1: Sample location
- T : Thin section
- P : Polished section
- M : Chemical analysis
- X : X-ray diffraction analysis







- BATINAH OLIGOSTROME**
- Wadi
 - Alluvial fans and alluvium
 - Mb1** Oolite derived from the Matbat Formation
 - Si1** Chert and silicified micritic limestone
- SAMAIL VOLCANIC ROCKS**
- V2** Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene
 - V2C** Volcanic conglomerate or breccia; reworked rocks composed of SD, V1-1, V1-2 and so on
 - U1** Umber or metalliferous sediments with radiolarian chert
 - V1-2** Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava
 - V1-1** Lower extrusives 1; basaltic pillow lava composed of big size pillow lava
 - SD** Sheeted dyke; doleritic and basaltic dyke
 - CG** Cumulate gabbro
- INTRUSIVES**
- Td'** Trondhjemite or quartz diorite
 - Gu'** Gabbro
 - Slag

ECONOMIC GEOLOGY SYMBOLS

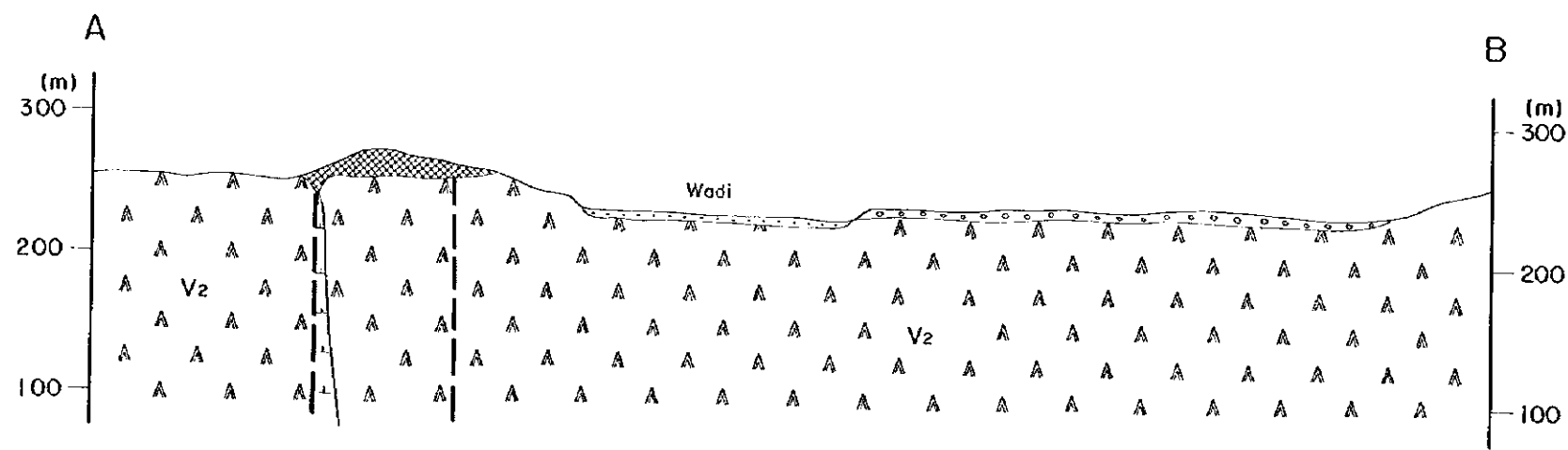
- Gossanized mineral showing
- Small gossanized mineral showing and name of mineral showing
- Quartz vein and network

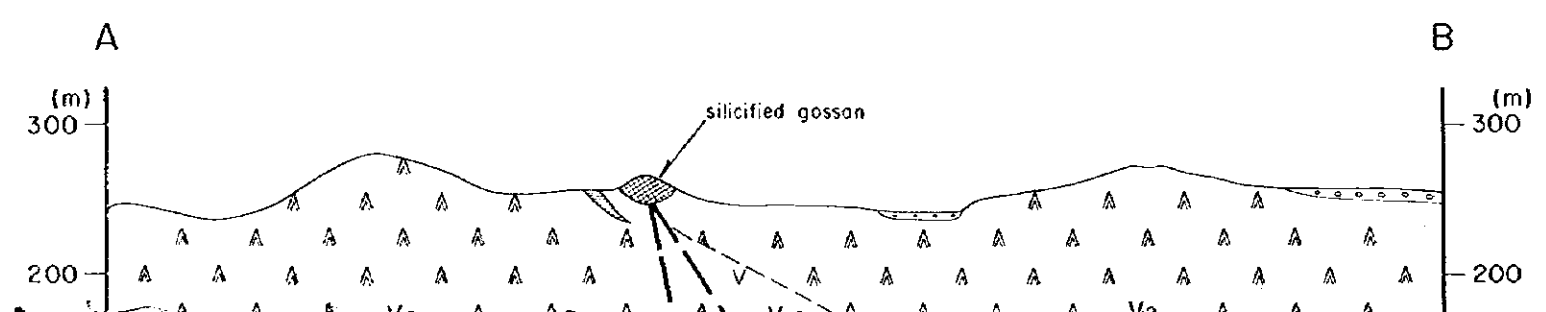
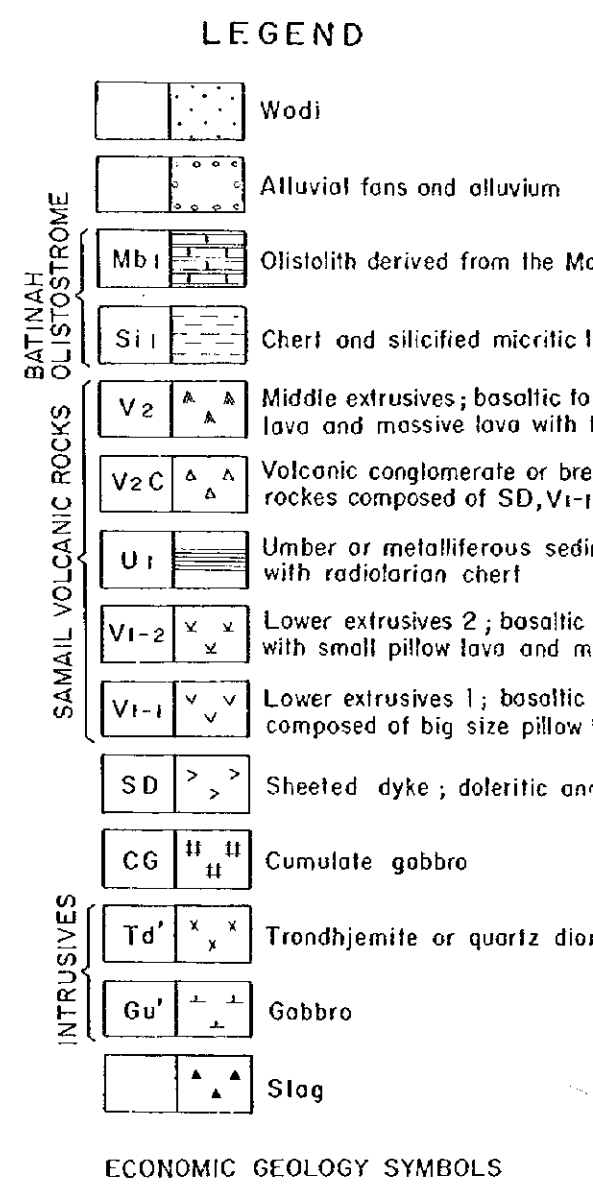
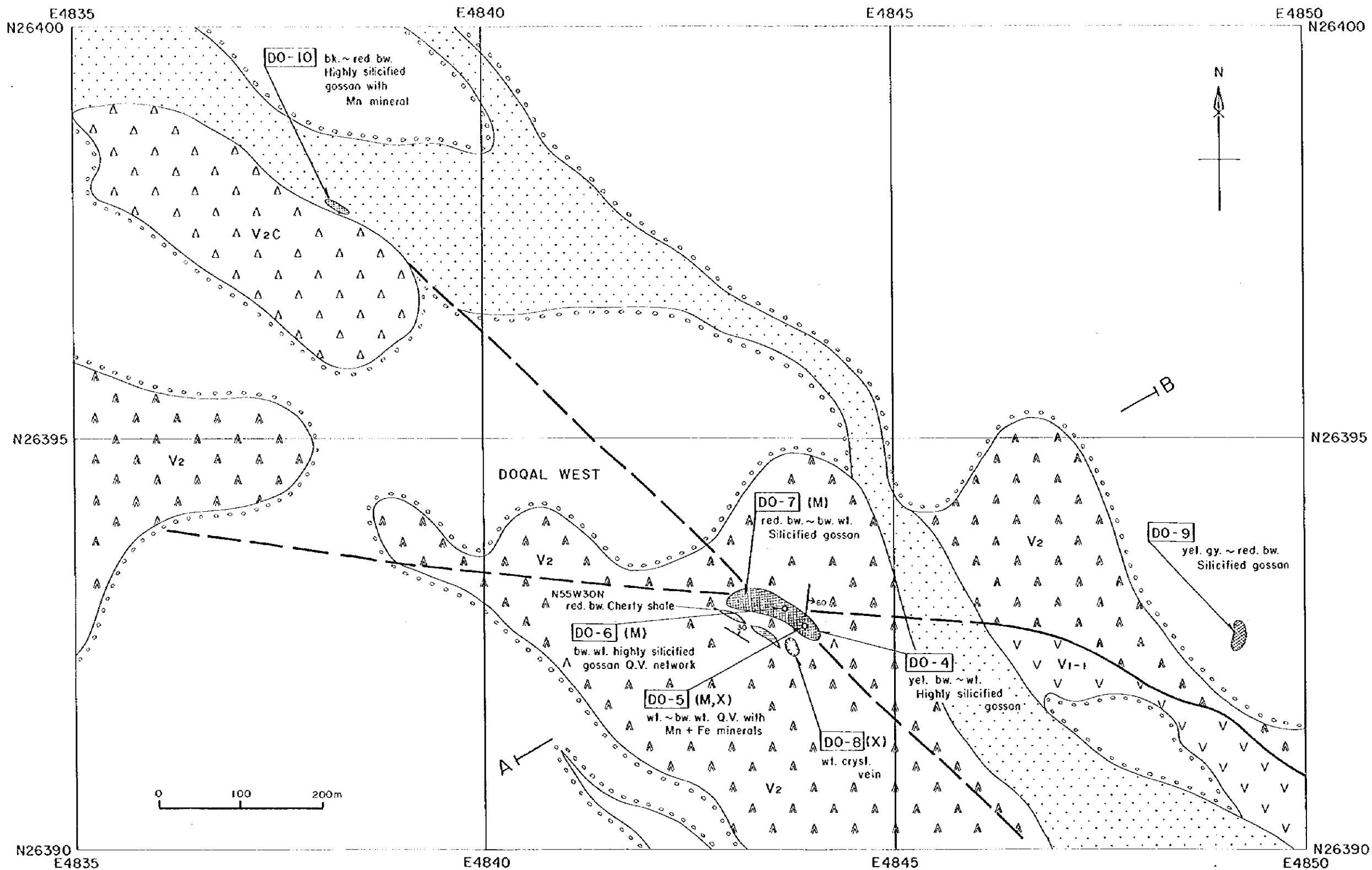
STRUCTURAL FEATURES

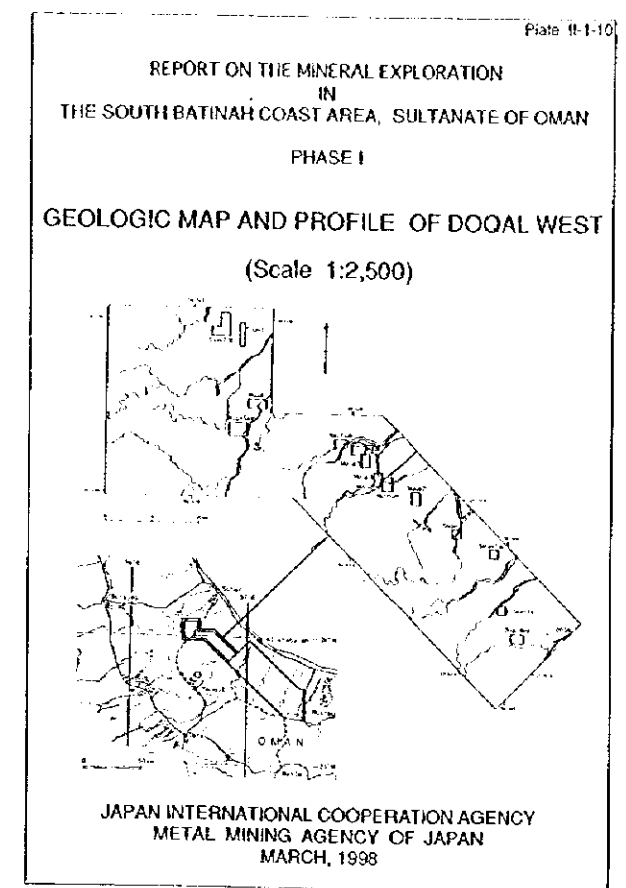
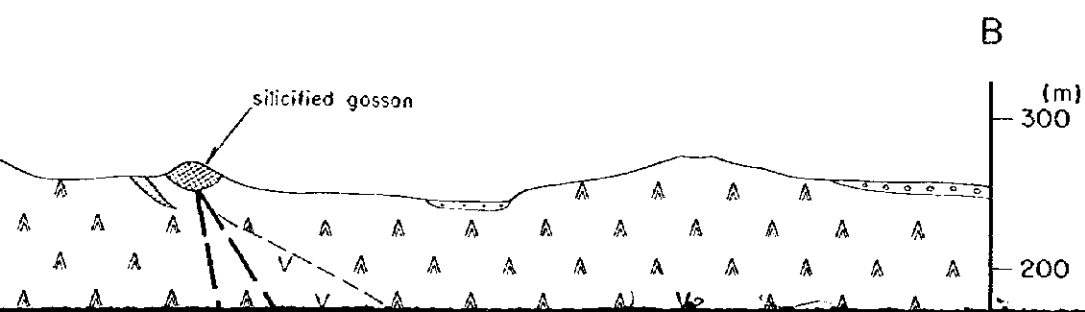
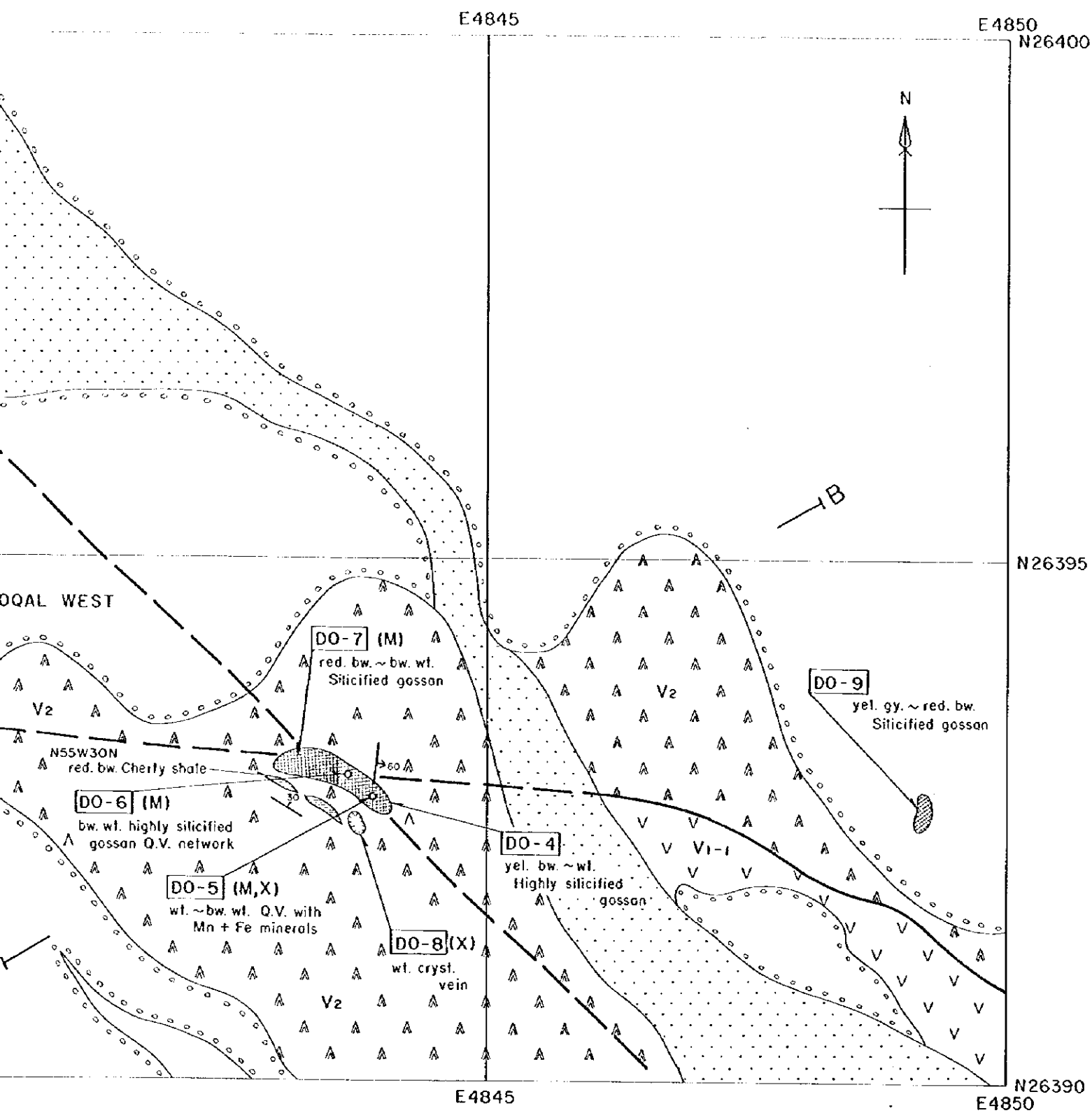
- Strike and dip of bedding
- Strike and dip of dykes and sills
- Fault; dashed where inferred or concealed

HK-1 : Sample location

- T : Thin section
- P : Polished section
- M : Chemical analysis
- X : X-ray diffraction analysis







LEGEND

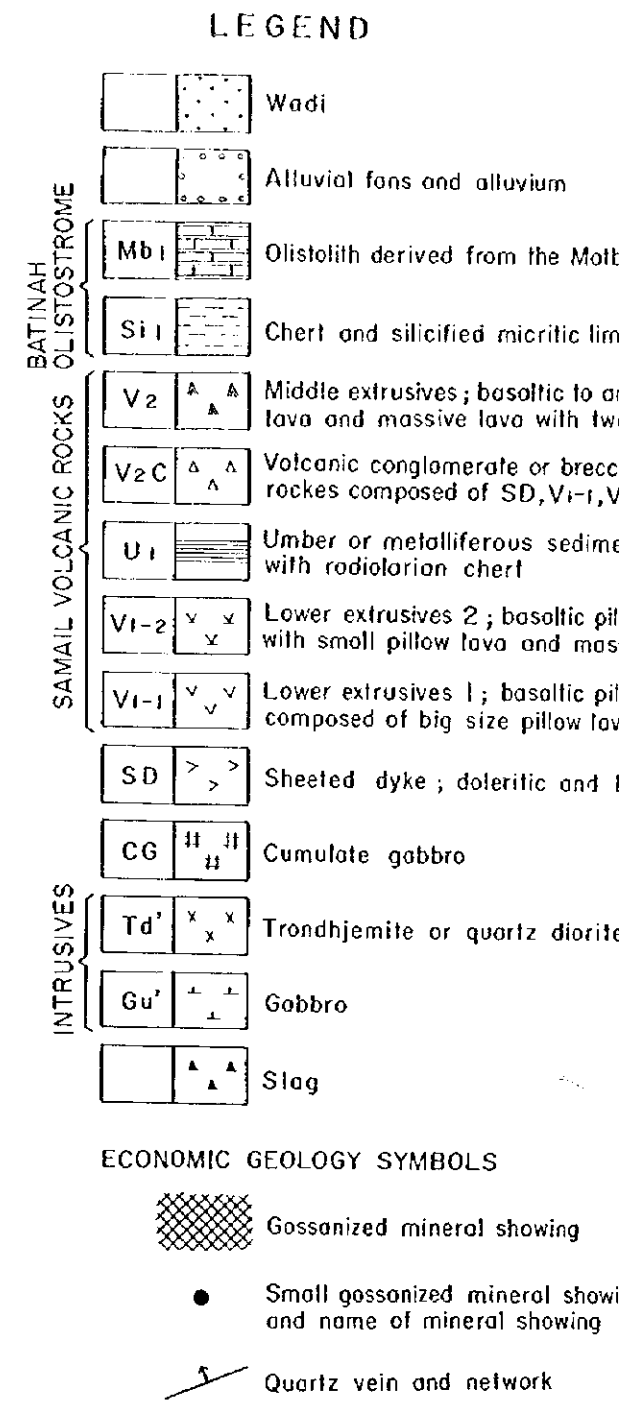
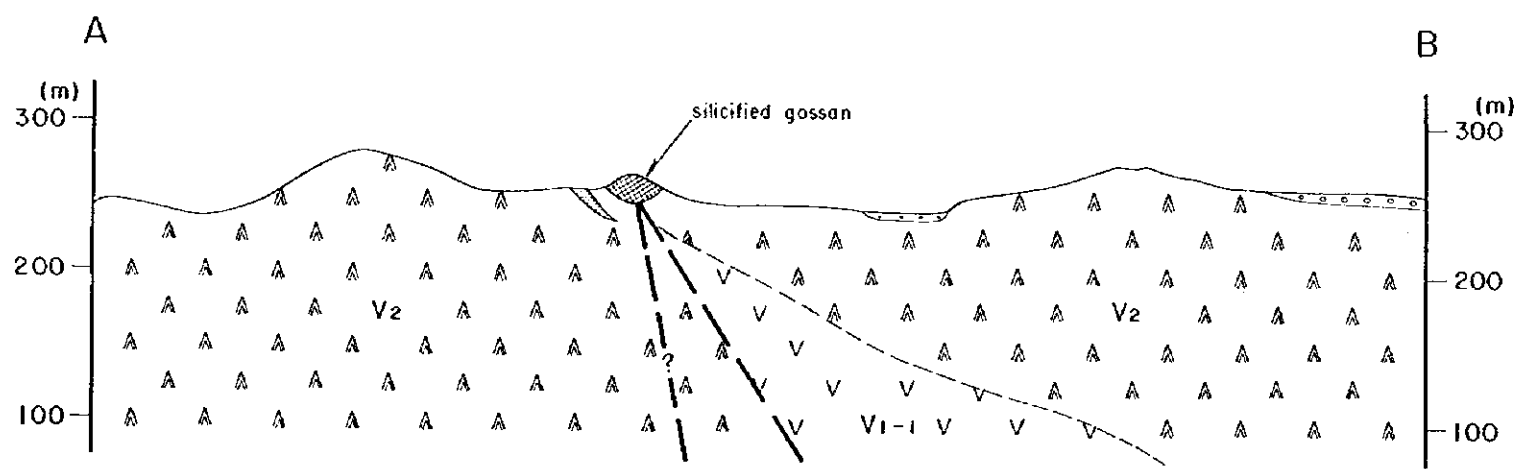
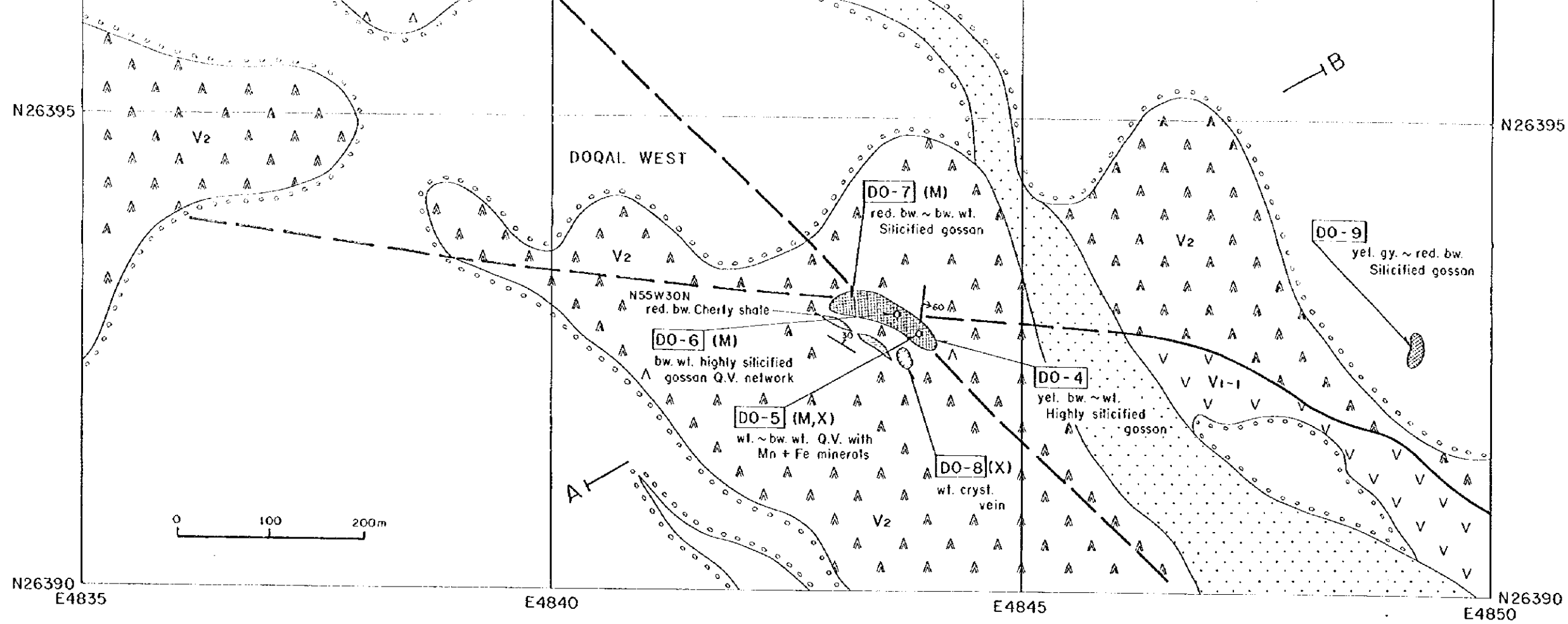
- | | | |
|-----------------------|--|---|
| | | Wadi |
| | | Alluvial fans and alluvium |
| BATINAH OLISTOSTROME | | Olistolith derived from the Matbat Formation |
| | | Chert and silicified micritic limestone |
| SAMAIL VOLCANIC ROCKS | | Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene |
| | | Volcanic conglomerate or breccia; reworked rocks composed of SD, V1-1, V1-2 and so on |
| | | Umber or metalliferous sediments with radiolarian chert |
| | | Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava |
| | | Lower extrusives 1; basaltic pillow lava composed of big size pillow lava |
| | | Sheeted dyke; doleritic and basaltic dyke |
| | | Cumulate gabbro |
| INTRUSIVES | | Trondhjemite or quartz diorite |
| | | Gabbro |
| | | Slag |

STRUCTURAL FEATURES

- | | |
|--|---|
| | 50 Strike and dip of bedding |
| | 50 Strike and dip of dykes and sills |
| | Fault; dashed where inferred or concealed |

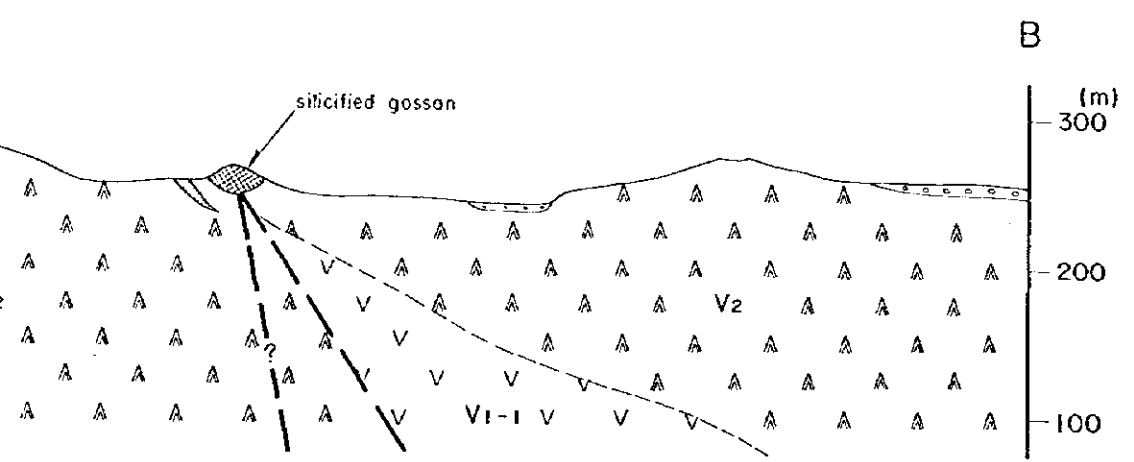
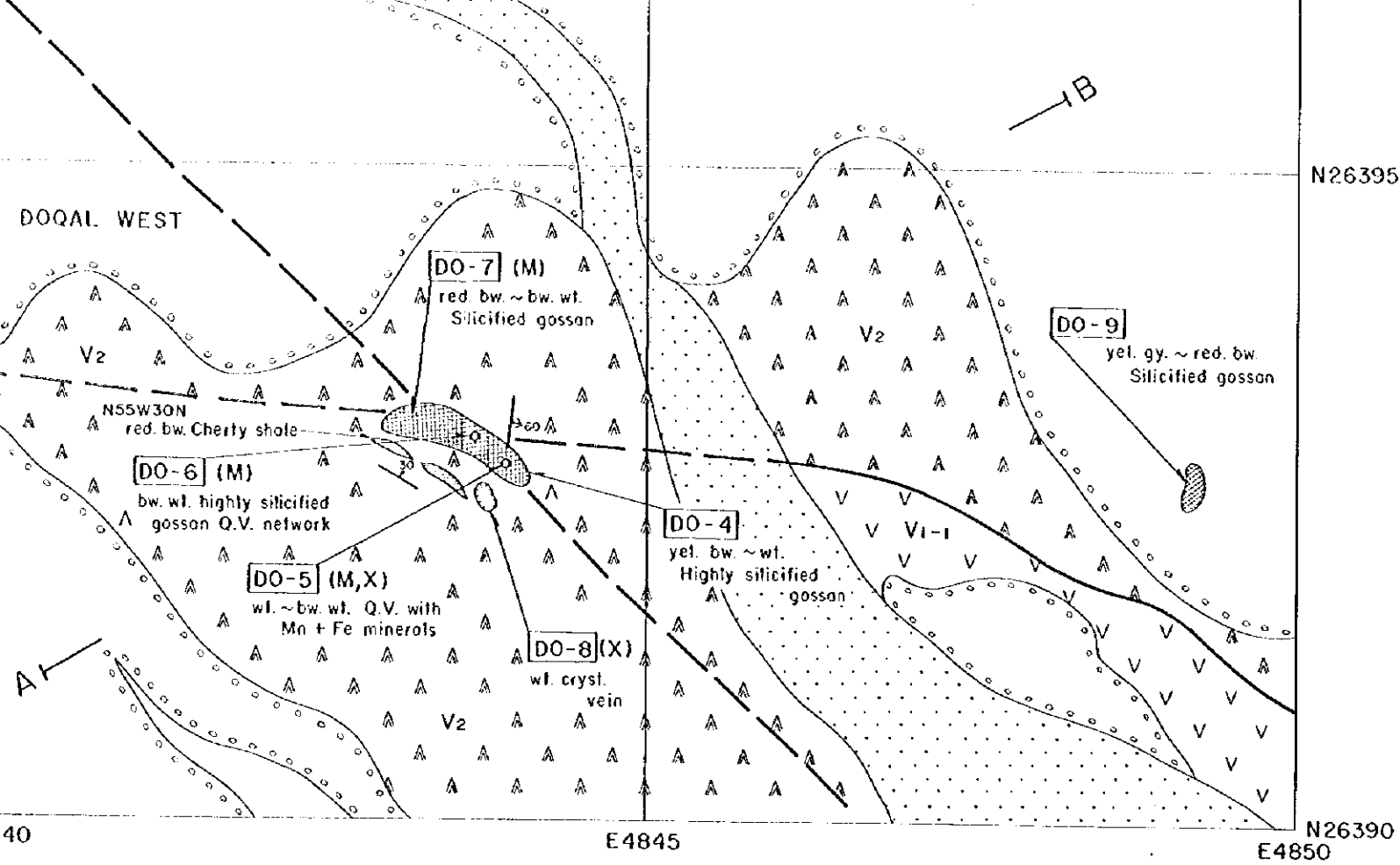
ECONOMIC GEOLOGY SYMBOLS

HK-1 : Sample location





JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
MARCH, 1998



LEGEND

- | | | |
|--------------------------|---|---|
| | | Wadi |
| | | Alluvial fans and alluvium |
| BATINAH OLISTOSTROME | | Olistolith derived from the Malbal Formation |
| | | Chert and silicified micritic limestone |
| SAMAIL VOLCANIC ROCKS | | Middle extrusives; basaltic to andesitic pillow lava and massive lava with two pyroxene |
| | | Volcanic conglomerate or breccia; reworked rocks composed of SD, V1-1, V1-2 and so on |
| | | Umbur or metalliferous sediments with radiolarian chert |
| | | Lower extrusives 2; basaltic pillow lava with small pillow lava and massive lava |
| | | Lower extrusives 1; basaltic pillow lava composed of big size pillow lava |
| | | Sheeted dyke; doleritic and basaltic dyke |
| | | Cumulate gabbro |
| INTRUSIVES | | Trondhjemite or quartz diorite |
| | | Gabbro |
| | | Slag |
| ECONOMIC GEOLOGY SYMBOLS | | |
| | | Gossanized mineral showing |
| | | Small gossanized mineral showing and name of mineral showing |
| | | Quartz vein and network |
| STRUCTURAL FEATURES | | |
| | | Strike and dip of bedding |
| | | Strike and dip of dykes and sills |
| | | Fault; dashed where inferred or concealed |
| | | Sample location |
| | T | Thin section |
| | P | Polished section |
| | M | Chemical analysis |
| | X | X-ray diffraction analysis |

LEGEND

- | | | |
|--|--|--|
| | | Wadi sediments |
| | | Alluvial fans and alluvium |
| | | Serpentinite |
| | | Metagabbro |
| | | Harzburgite |
| Batinah Olistostrome | | Schist |
| | | Basaltic pillow lava |
| | | Limestone dominant facies |
| | | Chert dominant facies |
| Upper Volcanic Rocks Upper extrusives | | Basaltic pillow lava |
| | | Doleritic basalt massive lava |
| | | Cherty shale and shale |
| | | Metalliferous sediments |
| Middle Volcanic Rocks Middle extrusives | | Doleritic basalt lava |
| | | Basaltic massive lava |
| | | Basaltic pillow lava |
| | | Metalliferous sediments |
| Lower Volcanic Rocks Lower extrusives | | Metalliferous sediments with radiolarian chart |
| | | Lower extrusive 2; basaltic pillow lava and massive lava |
| | | Lower extrusive 1; basaltic pillow lava and massive lava |
| Sheeted-dyke Complex | | Dolerite and basaltic dyke |
| | | Doleritic and basaltic dyke |
| Intrusive Rocks | | Trondhjemite |
| | | Peridotite |
| | | Gabbro |

ECONOMIC GEOLOGY SYMBOLS

- | | |
|--|----------------------------|
| | Gossanized mineral showing |
|--|----------------------------|

STRUCTURAL FEATURES

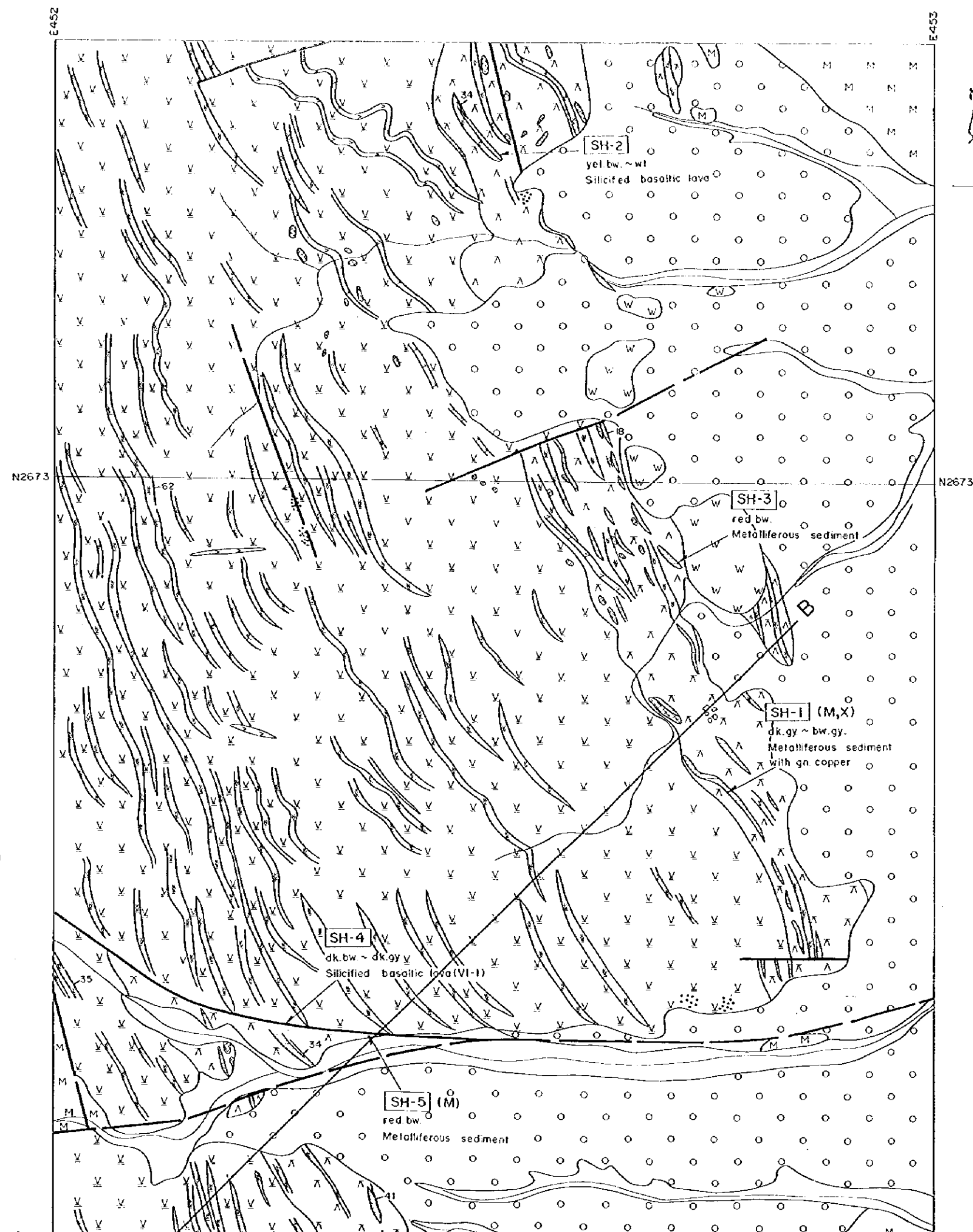
- | | |
|--|---|
| | Strike and dip of bedding |
| | Strike and dip of dykes and sills |
| | Fault; dashed where inferred or concealed |
| | Thrust fault |
| | Anticline |
| | Syncline |

: Sample location

T : Thin section

P : Polished section

M : Chemical analysis



- Strike and dip of dykes and sills
- Fault; dashed where inferred or concealed
- Thrust fault
- Anticline
- Syncline

- Lower Volcanic extrusives
- VI-2 Lower extrusive 2; basaltic pillow lava and massive lava
 - VI-1 Lower extrusive 1; basaltic pillow lava and massive lava
- Sheeted-dyke Complex
- SD Doleritic and basaltic dyke
 - D' Doleritic and basaltic dyke
- Intrusive Rocks
- Td' Trondhjemite
 - P' Peridotite
 - Gu' Gabbro

HK-1 : Sample location

T : Thin section

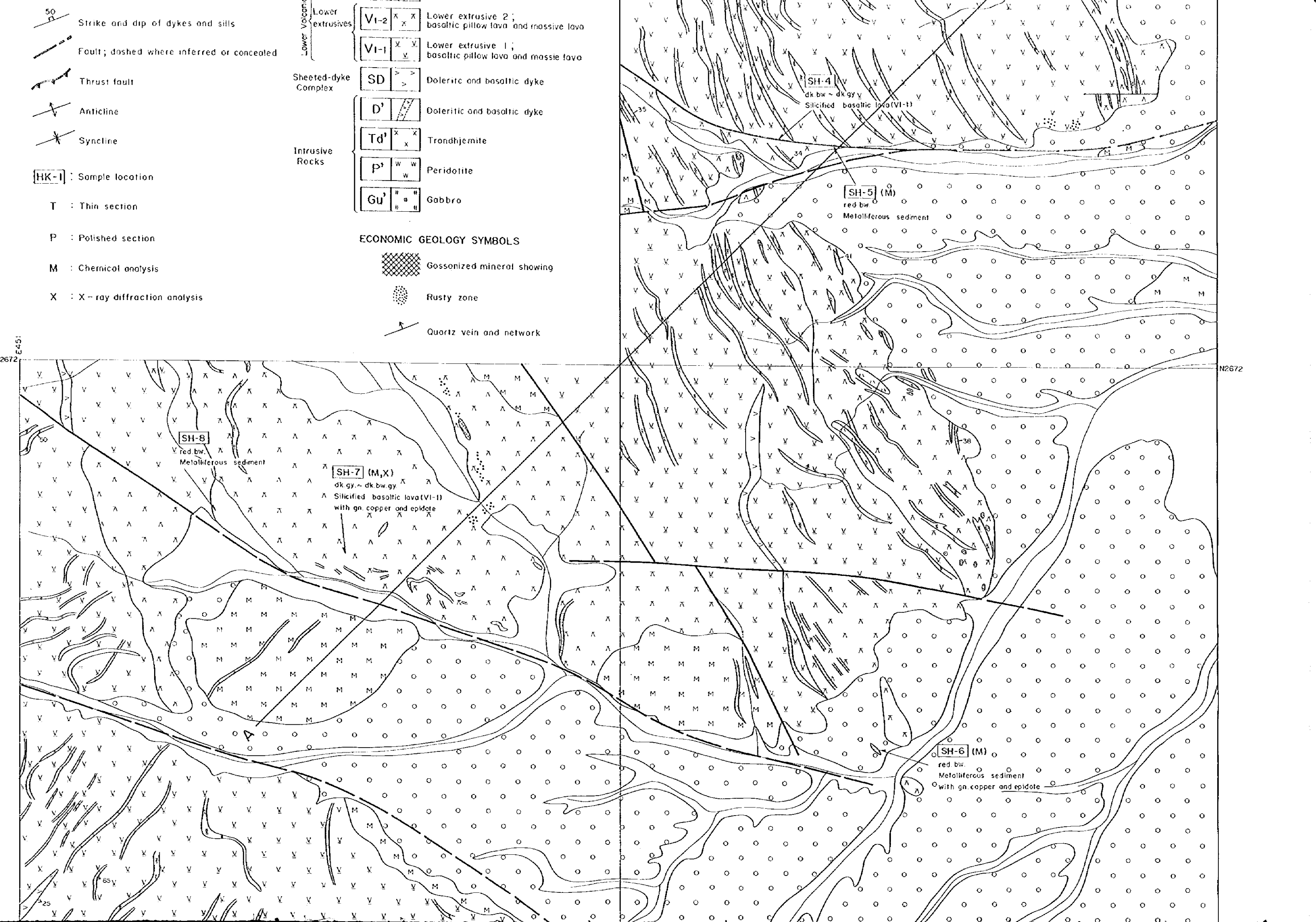
P : Polished section

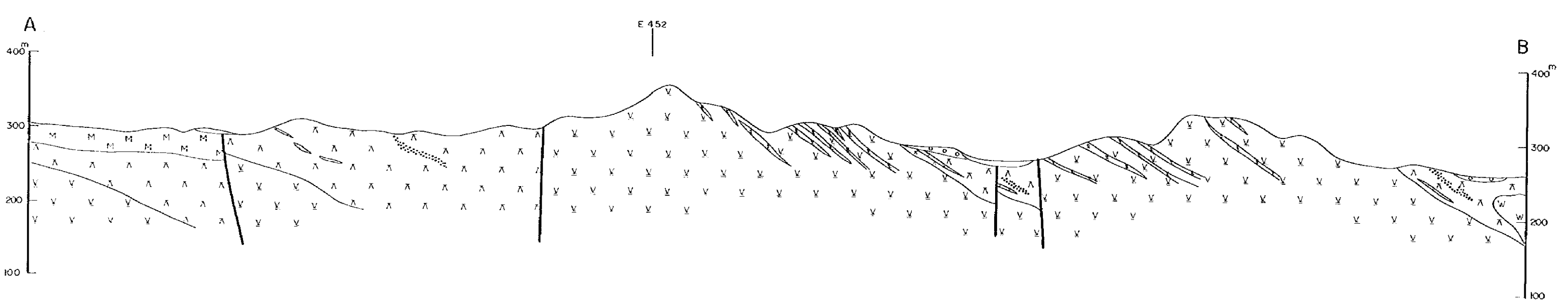
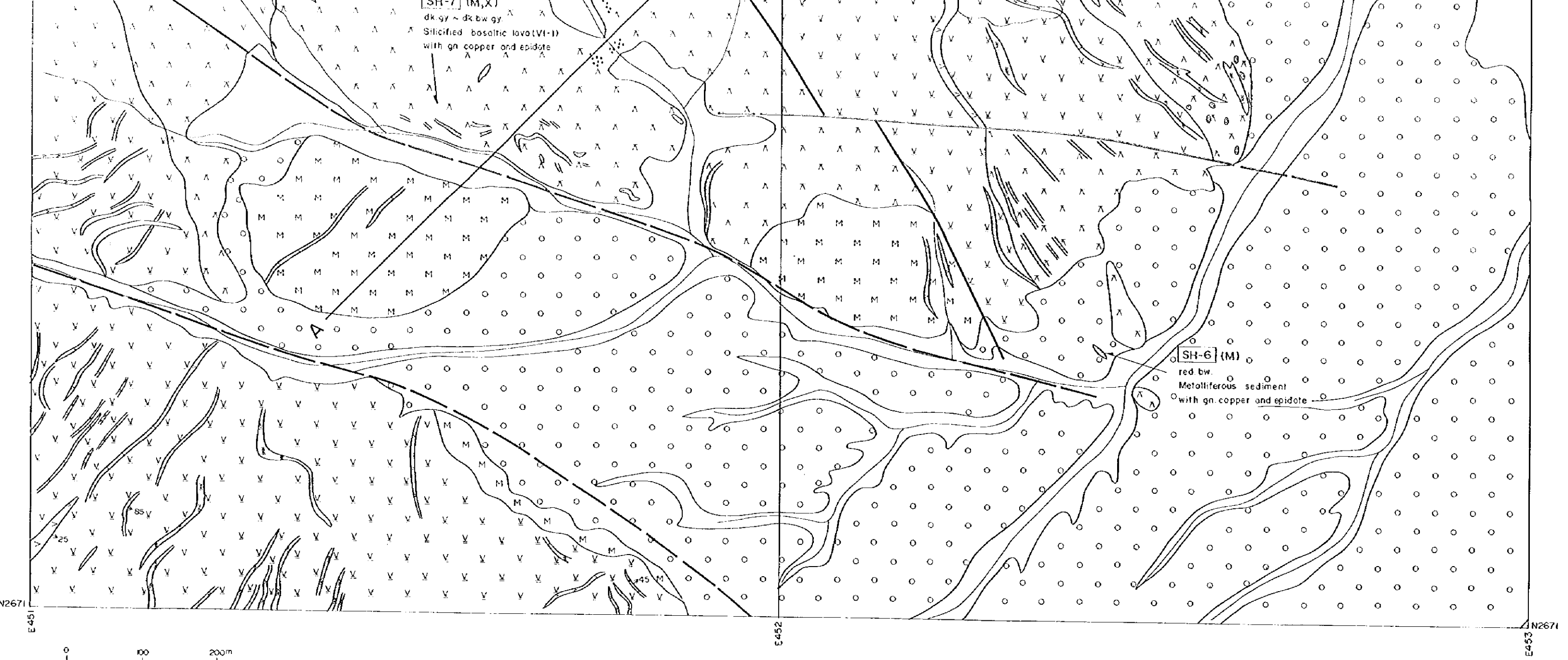
M : Chemical analysis

X : X-ray diffraction analysis

ECONOMIC GEOLOGY SYMBOLS

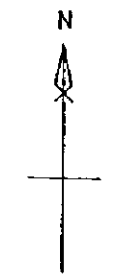
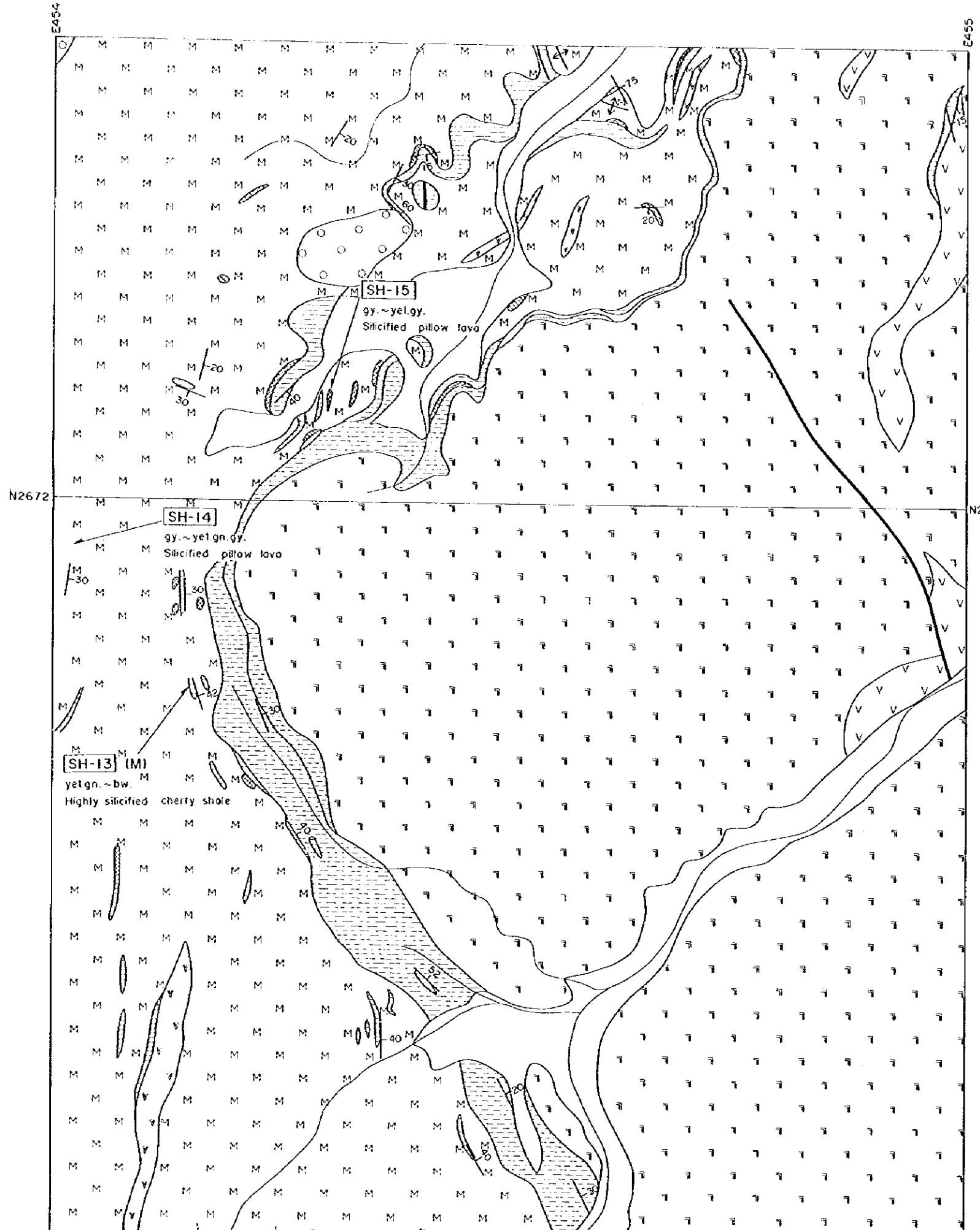
- Gossionized mineral showing
- Rusty zone
- Quartz vein and network





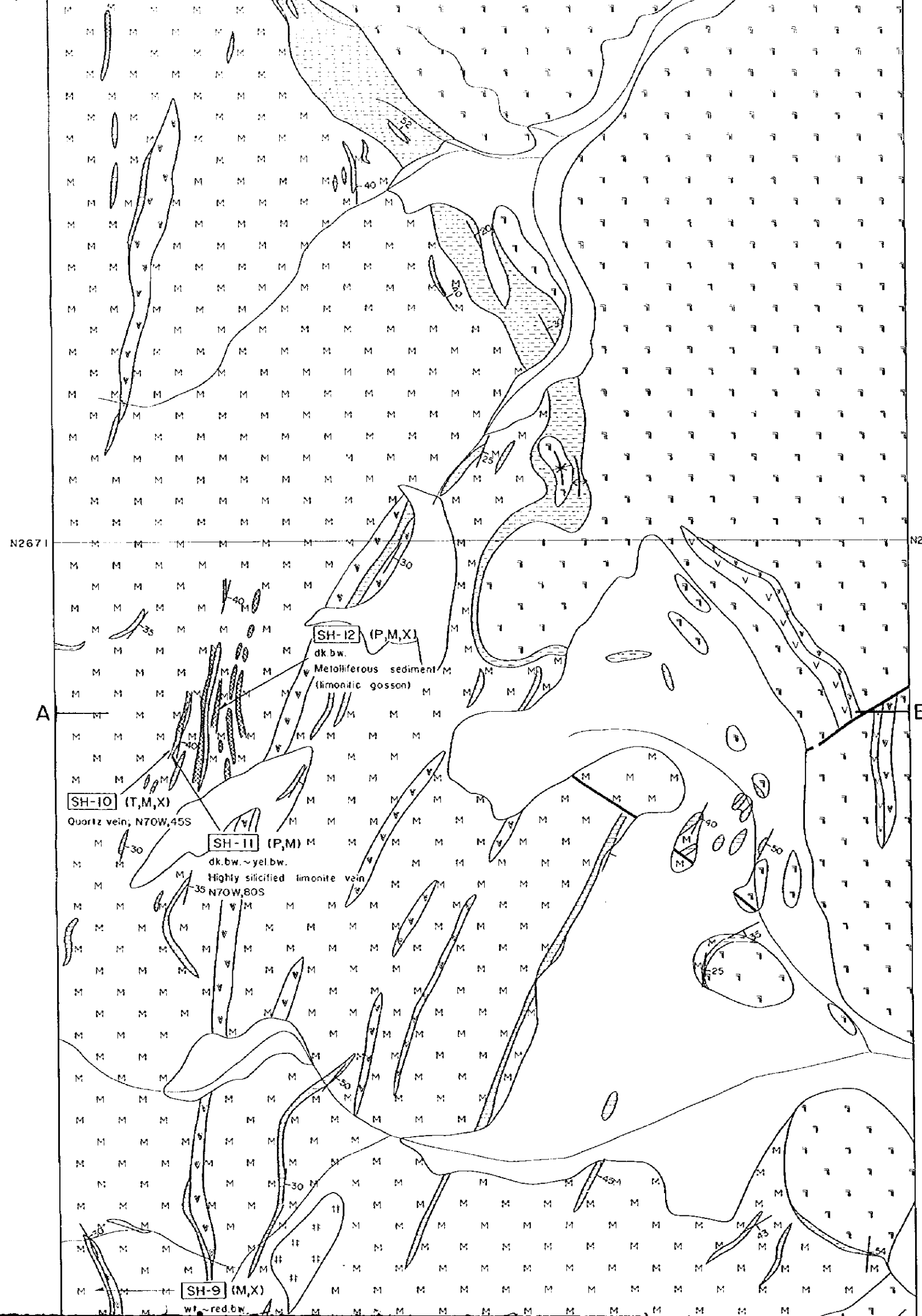
REPORT ON THE MINERAL EXPLORATION
IN
THE SOUTH BATINAH COAST AREA, SULTANATE OF OMAN
PHASE I
GEOLOGIC MAP AND PROFILE OF SALAHI I
(Scale 1:2,500)

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
MARCH, 1998



LEGEND

- Wadi sediments
- Alluvial fans and alluvium
- Batinah Olistostrome**
 - Sp Serpentinite
 - Mg Metagabbro
 - Hz Horzburgite
 - Sc Schist
 - Osb Basaltic pillow lava
 - Osl Limestone dominant facies
 - Osc Chert dominant facies
- Upper Volcanic Rocks**
 - Upper extrusives**
 - V3p Basaltic pillow lava
 - V3m Doleritic basalt massive lava
 - Sh3 Cherty shale and shale
 - U3 Metalliferous sediments
 - V2d Doleritic basalt lava
- Rocks**
 - V2m Doleritic basalt lava



| | | |
|-----------------------|--|--|
| Os _b | | Basaltic pillow lava |
| Os _l | | Limestone dominant facies |
| Os _c | | Chert dominant facies |
| Upper Volcanic Rocks | | |
| Upper extrusives | | |
| V _{3p} | | Basaltic pillow lava |
| V _{3m} | | Doleritic basalt massive lava |
| Sh ₃ | | Cherty shale and shale |
| U ₃ | | Metalliferous sediments |
| Middle Volcanic Rocks | | |
| Middle extrusives | | |
| V _{2d} | | Doleritic basalt lava |
| V _{2m} | | Basaltic massive lava |
| V _{2p} | | Basaltic pillow lava |
| U ₂ | | Metalliferous sediments |
| U ₁ | | Metalliferous sediments with radiolarian chert |
| Lower Volcanic Rocks | | |
| Lower extrusives | | |
| V ₁₋₂ | | Lower extrusive 2; basaltic pillow lava and massive lava |
| V ₁₋₁ | | Lower extrusive 1; basaltic pillow lava and massive lava |
| Sheeted-dyke Complex | | |
| SD | | Doleritic and basaltic dyke |
| D' | | Doleritic and basaltic dyke |
| Intrusive Rocks | | |
| Td' | | Trondhjemite |
| P' | | Peridotite |
| Gu' | | Gabbro |

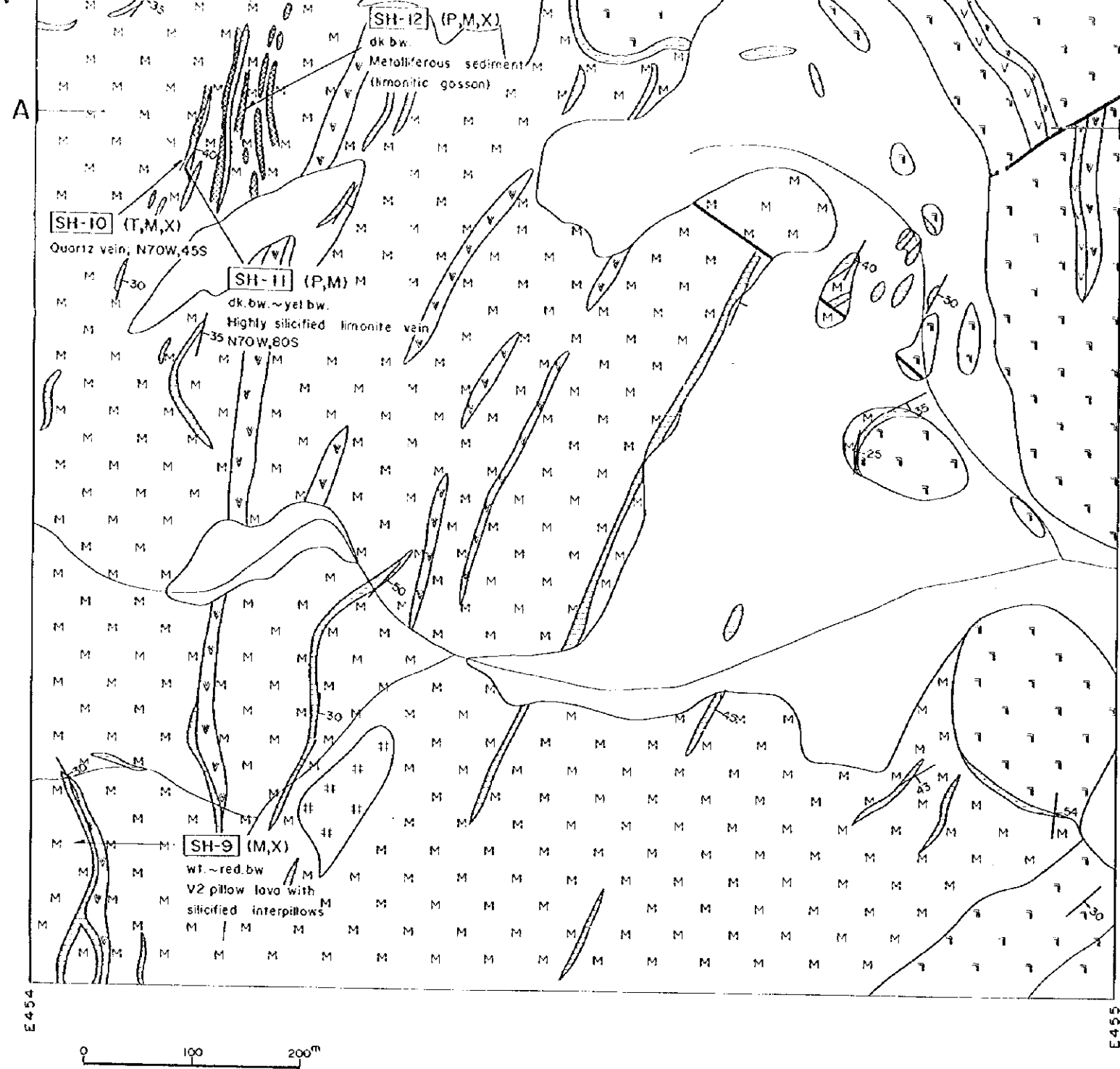
ECONOMIC GEOLOGY SYMBOLS

| | |
|--|----------------------------|
| | Gossanized mineral showing |
| | Rusty zone |
| | Quartz vein and network |

STRUCTURAL FEATURES

| | |
|--|---|
| | Strike and dip of bedding |
| | Strike and dip of dykes and sills |
| | Fault; dashed where inferred or concealed |
| | Thrust fault |
| | Anticline |
| | Syncline |

Sample location

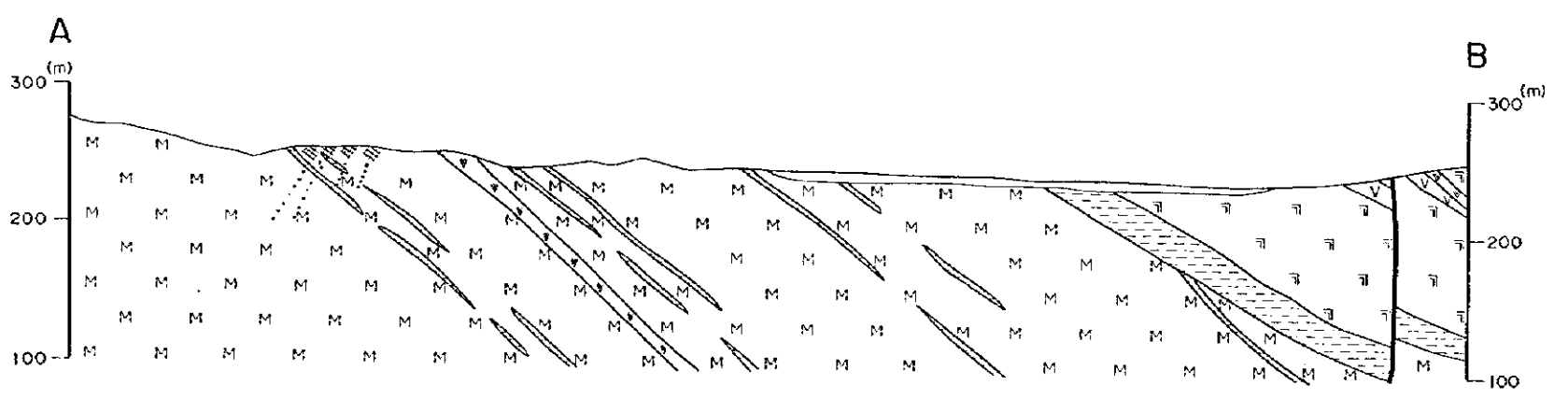


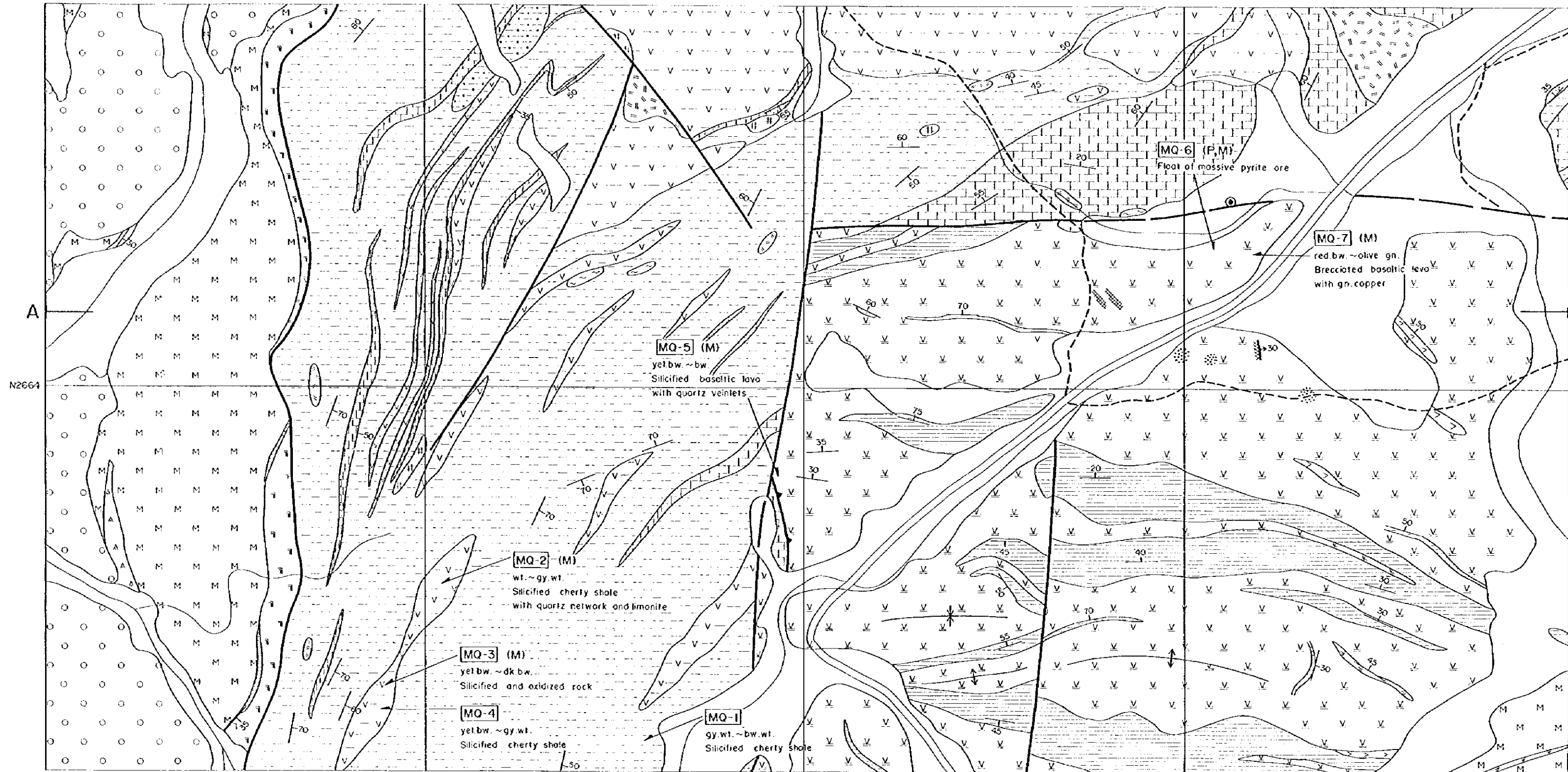
- Sheeted-dyke Complex
- SD >> Doleritic and basaltic dyke
 - D' / / Doleritic and basaltic dyke
- Intrusive Rocks
- Td' x x Trondhjemite
 - P' w w Peridotite
 - Gu' # # Gabbro

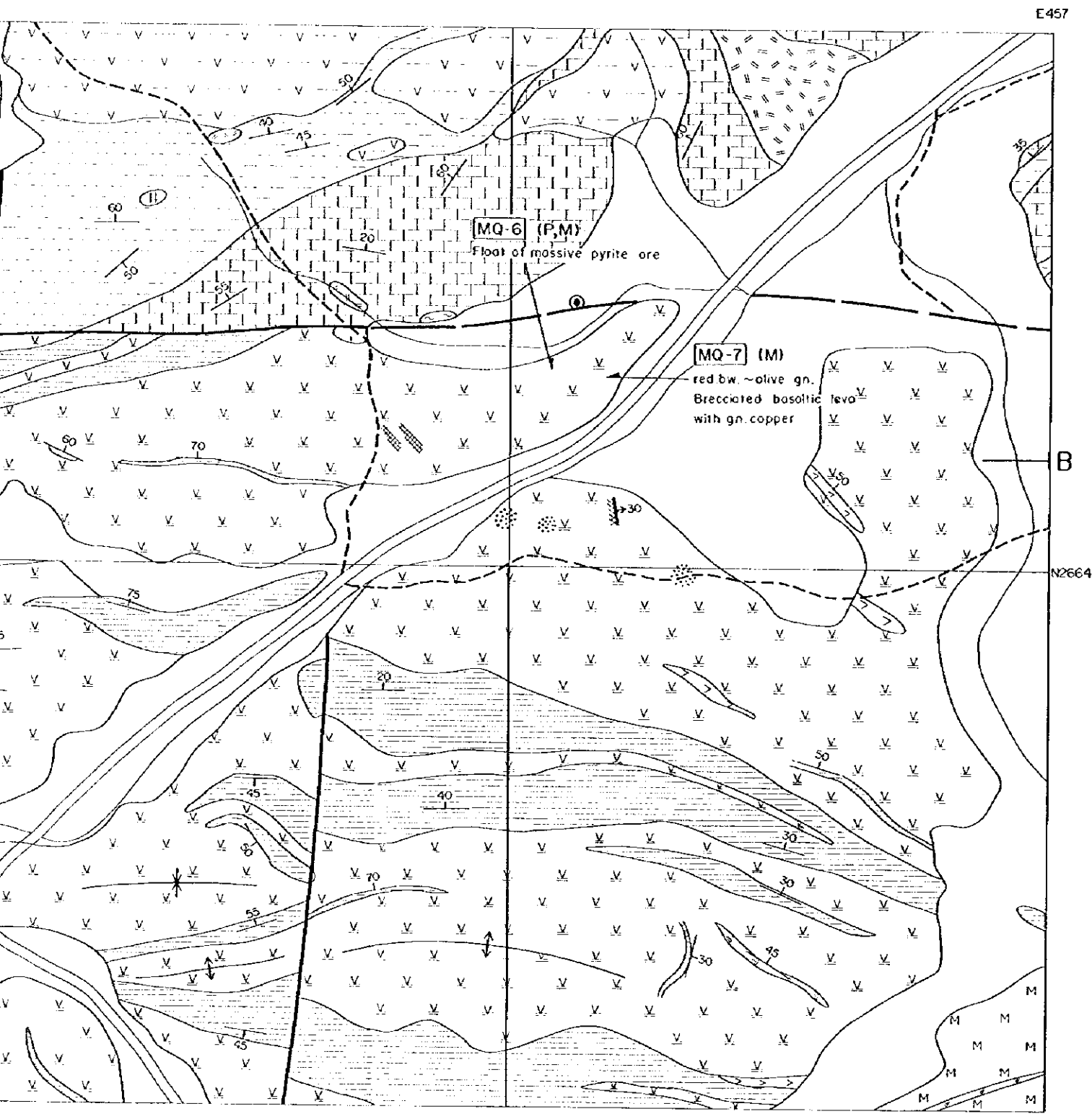
- ECONOMIC GEOLOGY SYMBOLS
- Gossonized mineral showing
 - Rusty zone
 - Quartz vein and network

- STRUCTURAL FEATURES
- Strike and dip of bedding
 - Strike and dip of dykes and sills
 - Fault; dashed where inferred or concealed
 - Thrust fault
 - Anticline
 - Syncline

- HK-1 : Sample location
- T : Thin section
 - P : Polished section
 - M : Chemical analysis
 - X : X-ray diffraction analysis







E457

E457



LEGEND

| | | |
|-----------------------|--|--|
| | | Wadi sediments |
| | | Alluvial fans and alluvium |
| | | Serpentinite |
| | | Metagabbro |
| | | Harzburgite |
| Batinah Olistostrome | | Schist |
| | | Basaltic pillow lava |
| | | Limestone dominant facies |
| | | Chert dominant facies |
| | | Basaltic pillow lava |
| Upper Volcanic Rocks | | Doleritic basalt massive lava |
| | | Cherty shale and shale |
| Middle Volcanic Rocks | | Metalliferous sediments |
| | | Doleritic basalt lava |
| | | Basaltic massive lava |
| | | Basaltic pillow lava |
| | | Metalliferous sediments |
| Lower Volcanic Rocks | | Metalliferous sediments with radiolarian chert |
| | | Lower extrusive 2; basaltic pillow lava and massive lava |
| | | Lower extrusive 1; basaltic pillow lava and massive lava |
| Sheeted-dyke Complex | | Doleritic and basaltic dyke |
| | | Doleritic and basaltic dyke |
| Intrusive Rocks | | Trondhjemite |
| | | Peridotite |
| | | Gabbro |

ECONOMIC GEOLOGY SYMBOLS

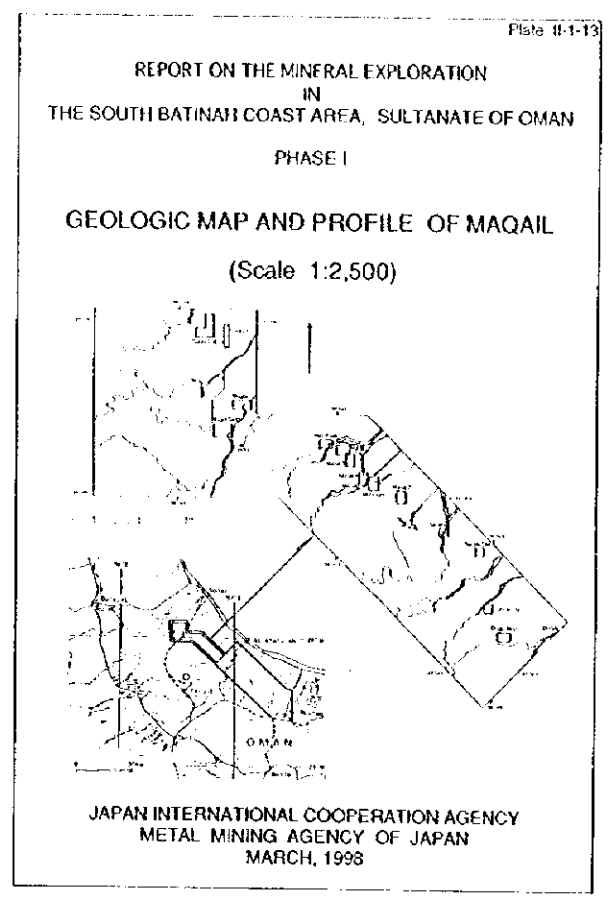
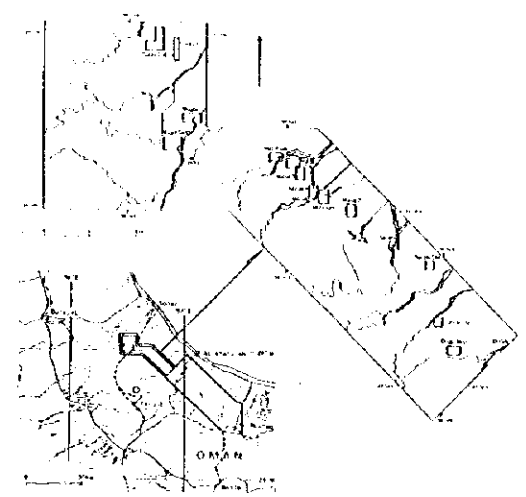


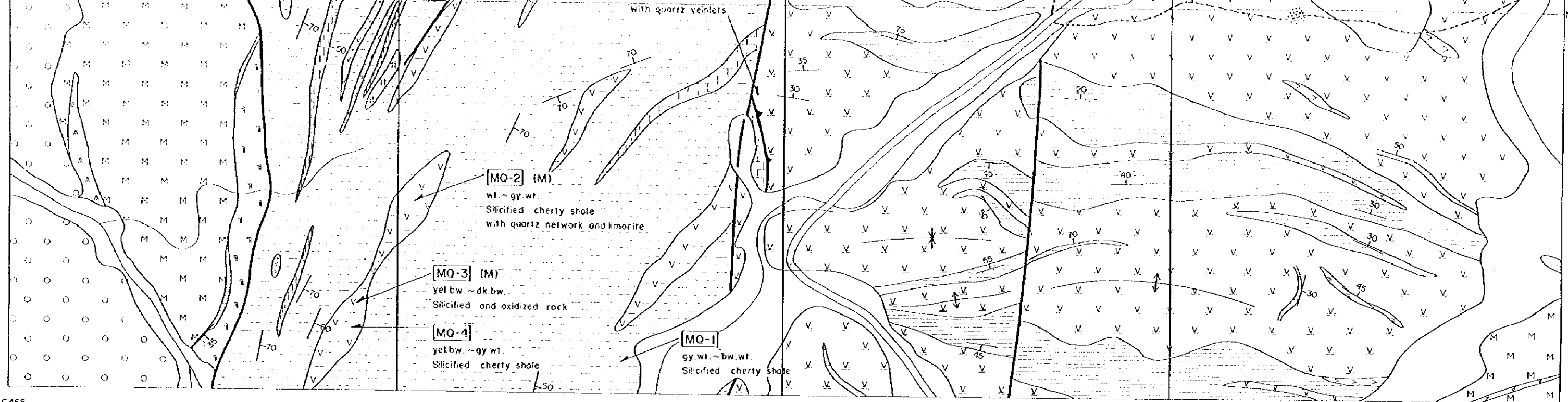
Plate II-1-13

REPORT ON THE MINERAL EXPLORATION
IN
THE SOUTH BATINAH COAST AREA, SULTANATE OF OMAN
PHASE I

GEOLOGIC MAP AND PROFILE OF MAQAIL
(Scale 1:2,500)



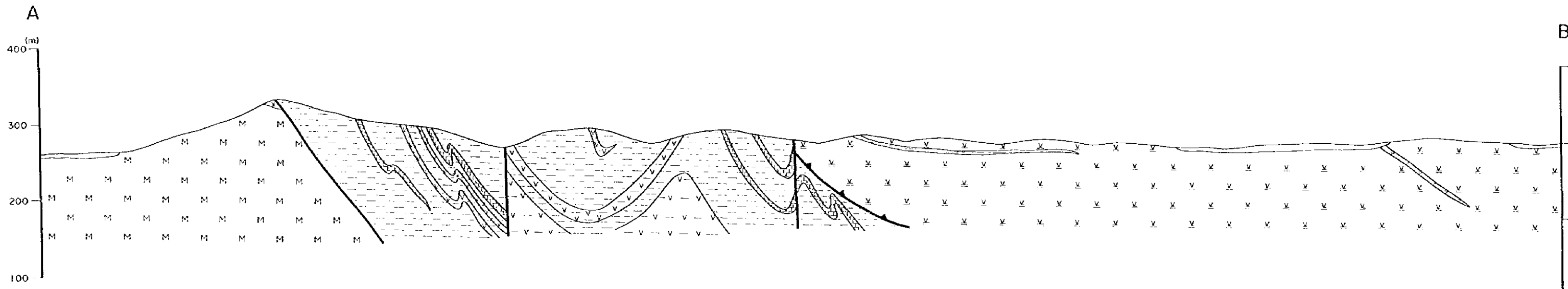
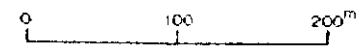
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
MARCH, 1993

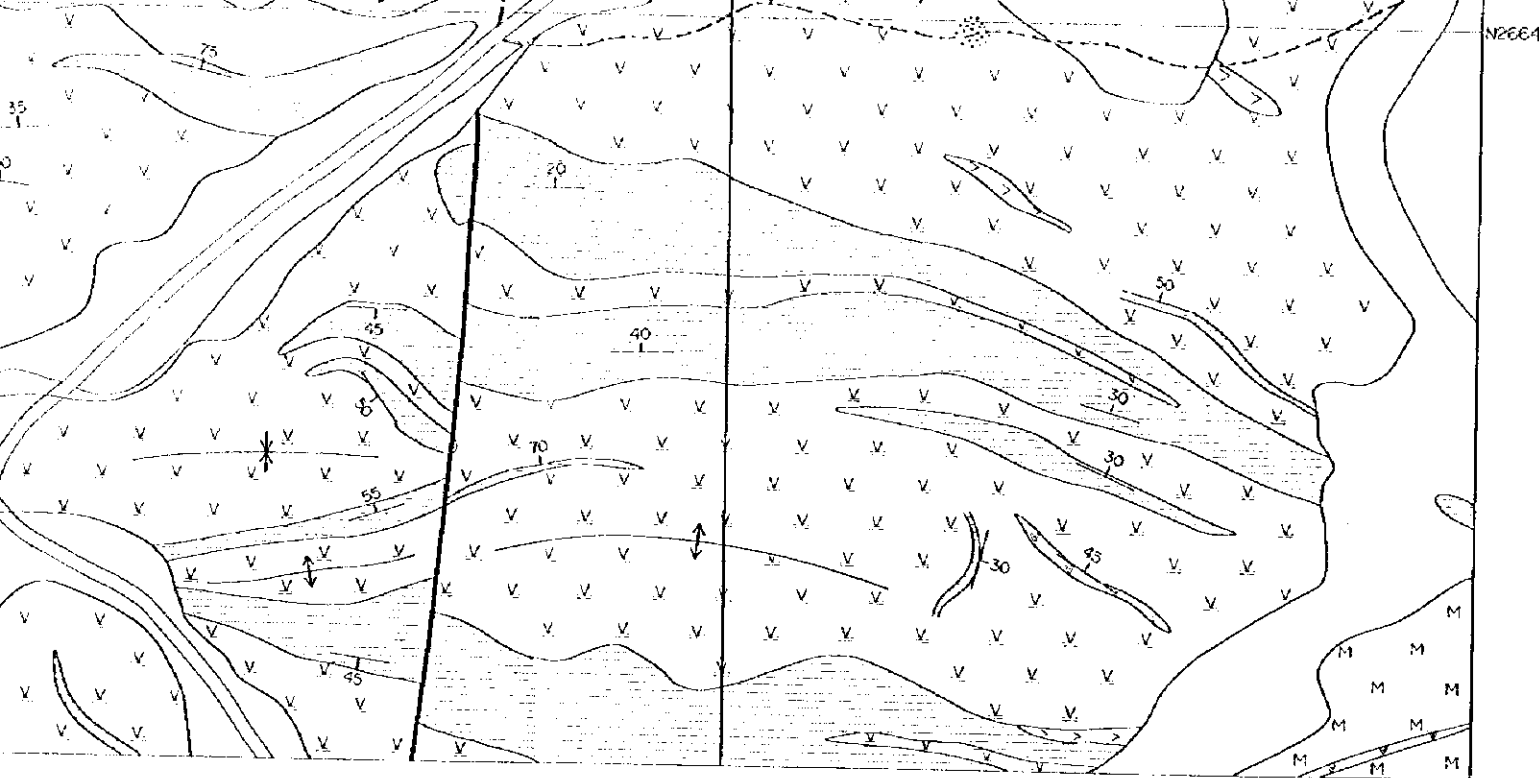


E455

E456

E457





E457

- Middle extrusives
 - V_{2m} Basaltic massive lava
 - V_{2p} Basaltic pillow lava
- Middle Volcanic Rocks
 - U₂ Metalliferous sediments
 - U₁ Metalliferous sediments with radiolarian chert
- Lower extrusives
 - V₁₋₂ Lower extrusive 2; basaltic pillow lava and massive lava
 - V₁₋₁ Lower extrusive 1; basaltic pillow lava and massive lava
- Sheeted-dyke Complex
 - SD Doleritic and basaltic dyke
 - D' Doleritic and basaltic dyke
- Intrusive Rocks
 - Td' Trondhjemite
 - P' Peridotite
 - Gu' Gabbro

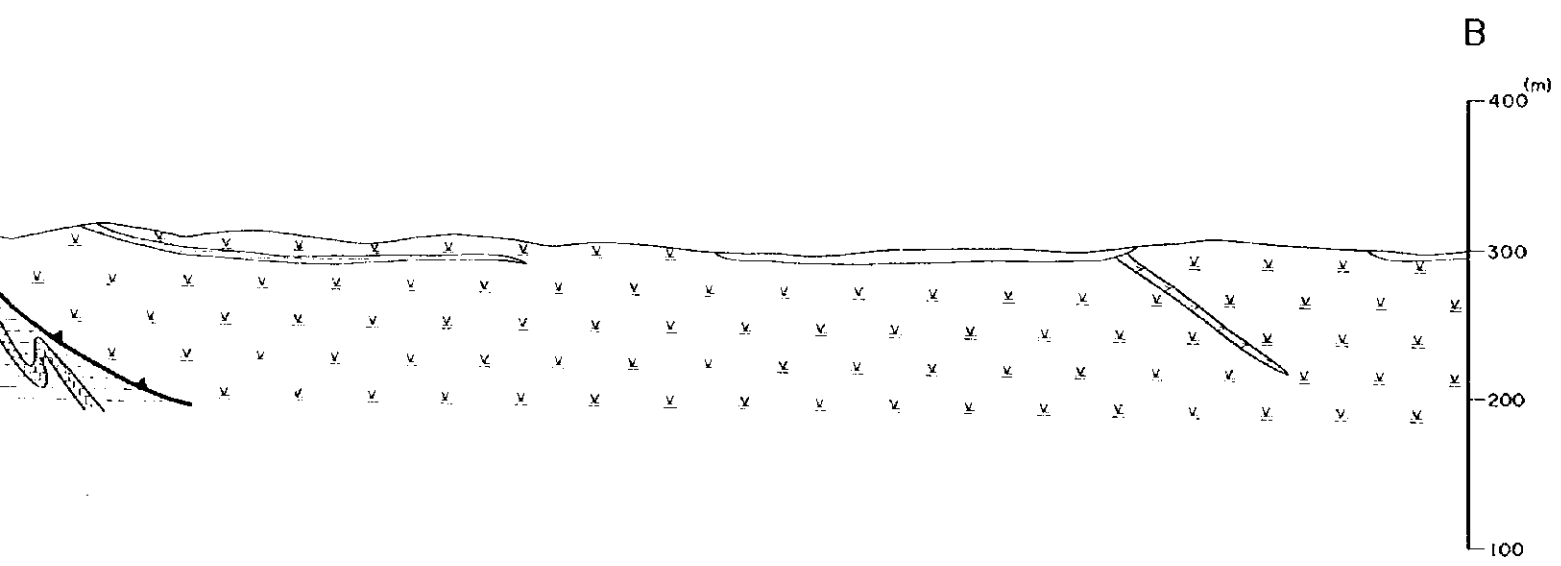
ECONOMIC GEOLOGY SYMBOLS

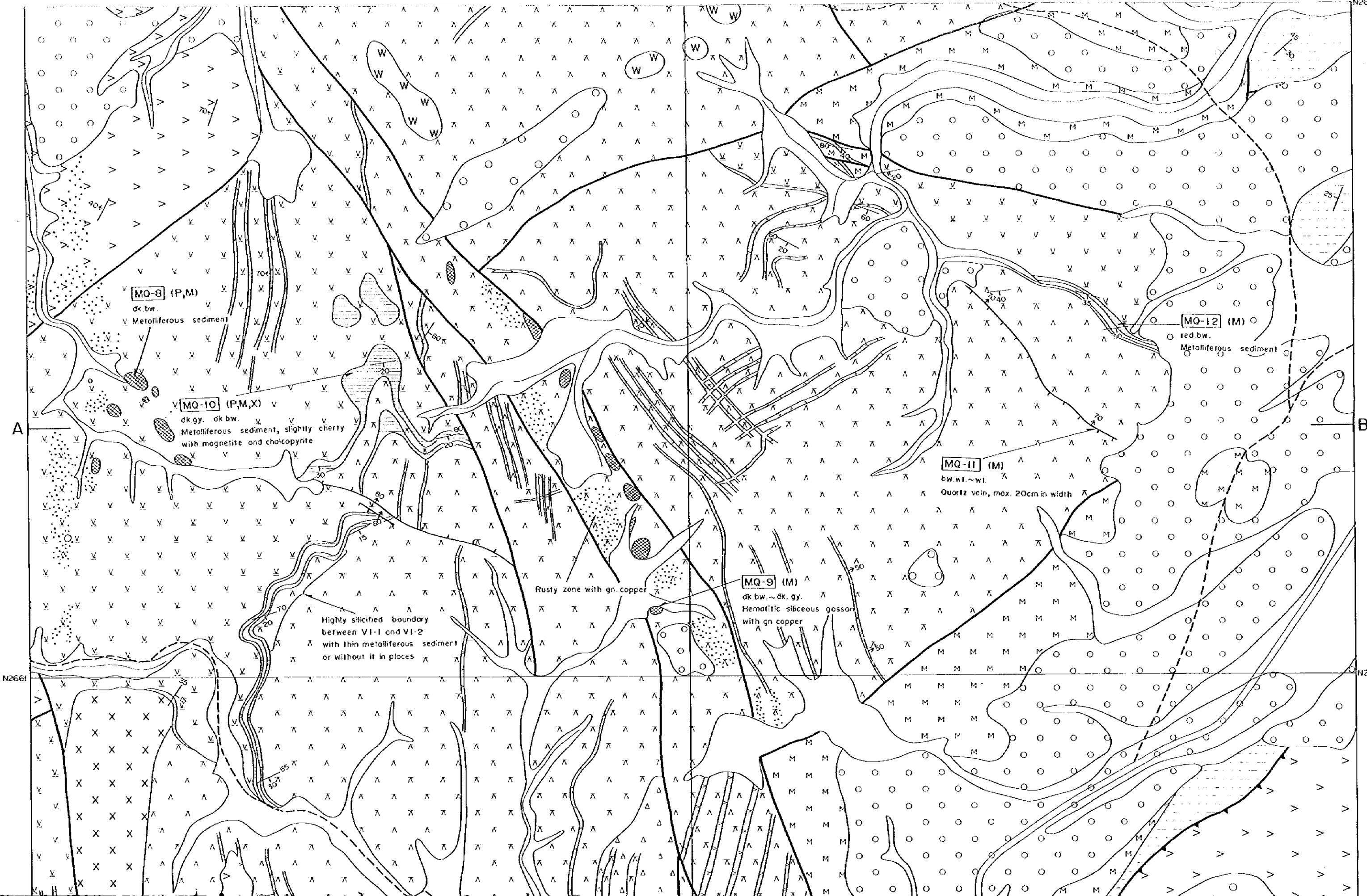
- Gossanized mineral showing
- Rusty zone
- Quartz vein and network

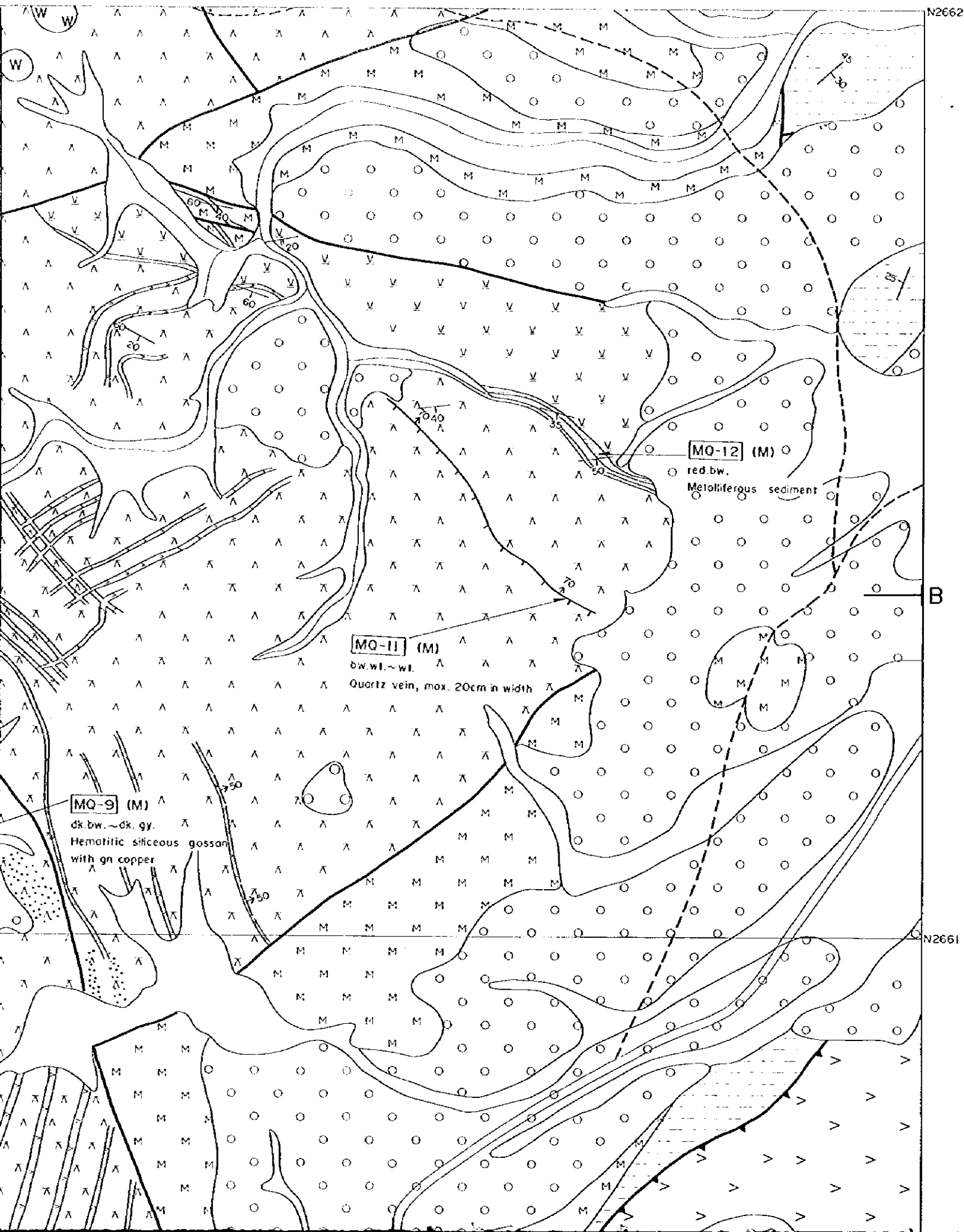
STRUCTURAL FEATURES

- Strike and dip of bedding
- Strike and dip of dykes and sills
- Fault; dashed where inferred or concealed
- Thrust fault
- Anticline
- Syncline

- HK-1** : Sample location
- T : Thin section
- P : Polished section
- M : Chemical analysis
- X : X-ray diffraction analysis







LEGEND

| | | |
|-----------------------|--|---|
| | | Wadi sediments |
| | | Alluvial fans and alluvium |
| | | Serpentine |
| | | Metagabbro |
| | | Harzburgite |
| Batinah Olistostrome | | Schist |
| | | Basaltic pillow lava |
| | | Limestone dominant facies |
| | | Chert dominant facies |
| Upper Volcanic Rocks | | Basaltic pillow lava |
| | | Doleritic basalt massive lava |
| | | Cherty shale and shale |
| | | Metoliferous sediments |
| Middle Volcanic Rocks | | Doleritic basalt lava |
| | | Basaltic massive lava |
| | | Basaltic pillow lava |
| | | Metoliferous sediments |
| Lower Volcanic Rocks | | Metoliferous sediments with radiolarian chert |
| | | Lower extrusive 2 ; basaltic pillow lava and massive lava |
| | | Lower extrusive 1 ; basaltic pillow lava and massive lava |
| Sheeted-dyke Complex | | Doleritic and basaltic dyke |
| | | Doleritic and basaltic dyke |
| Intrusive Rocks | | Trondhjemite |
| | | Peridotite |
| | | Gabbro |

ECONOMIC GEOLOGY SYMBOLS

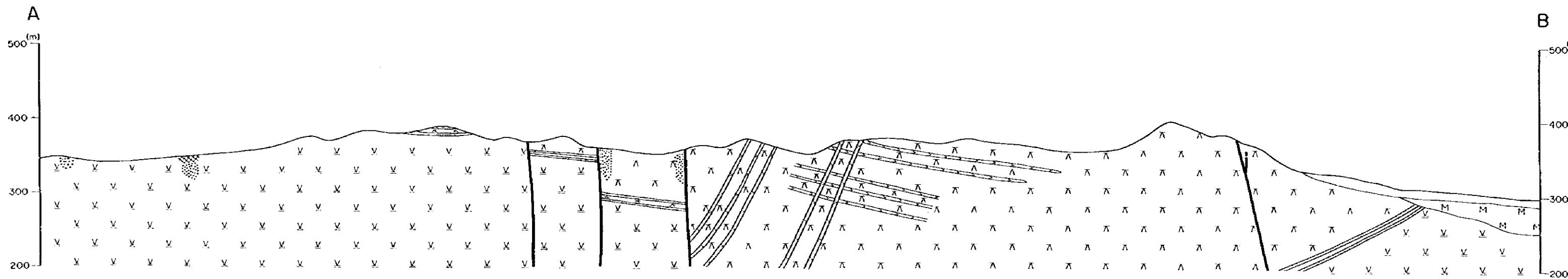
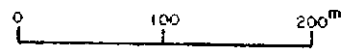
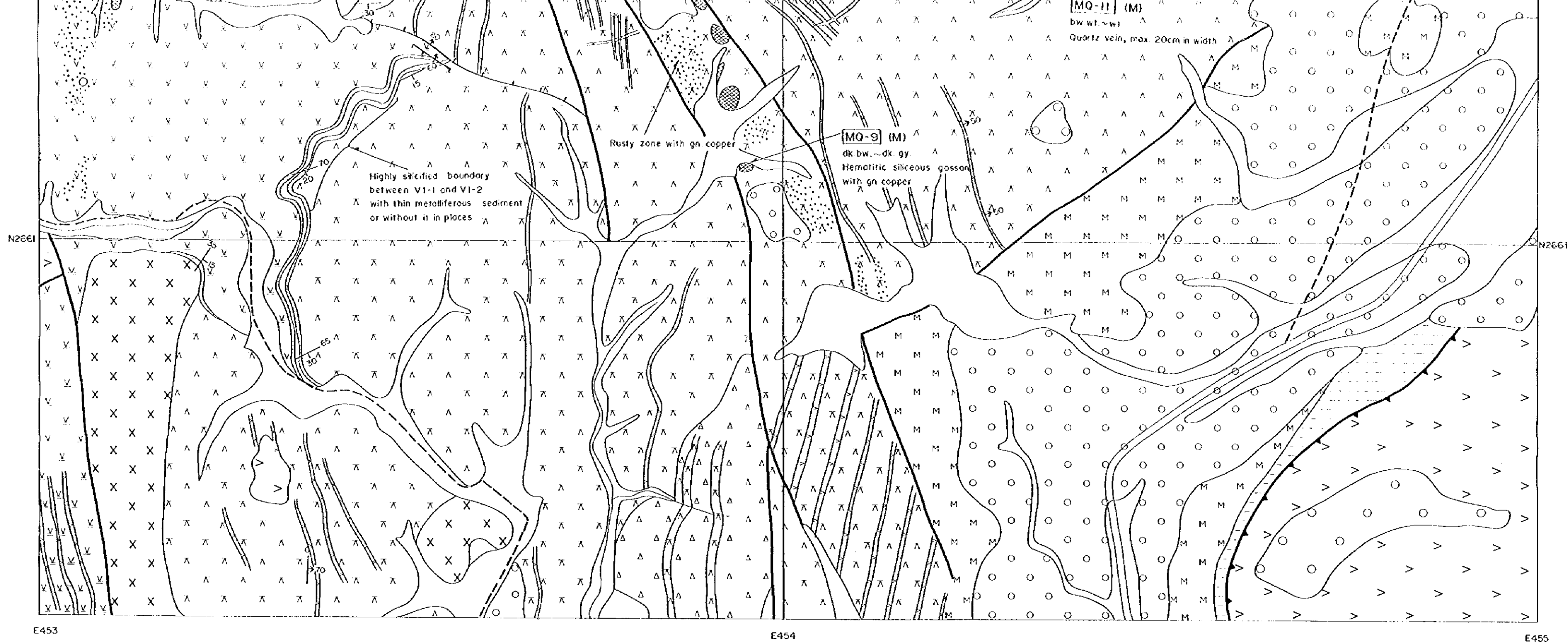
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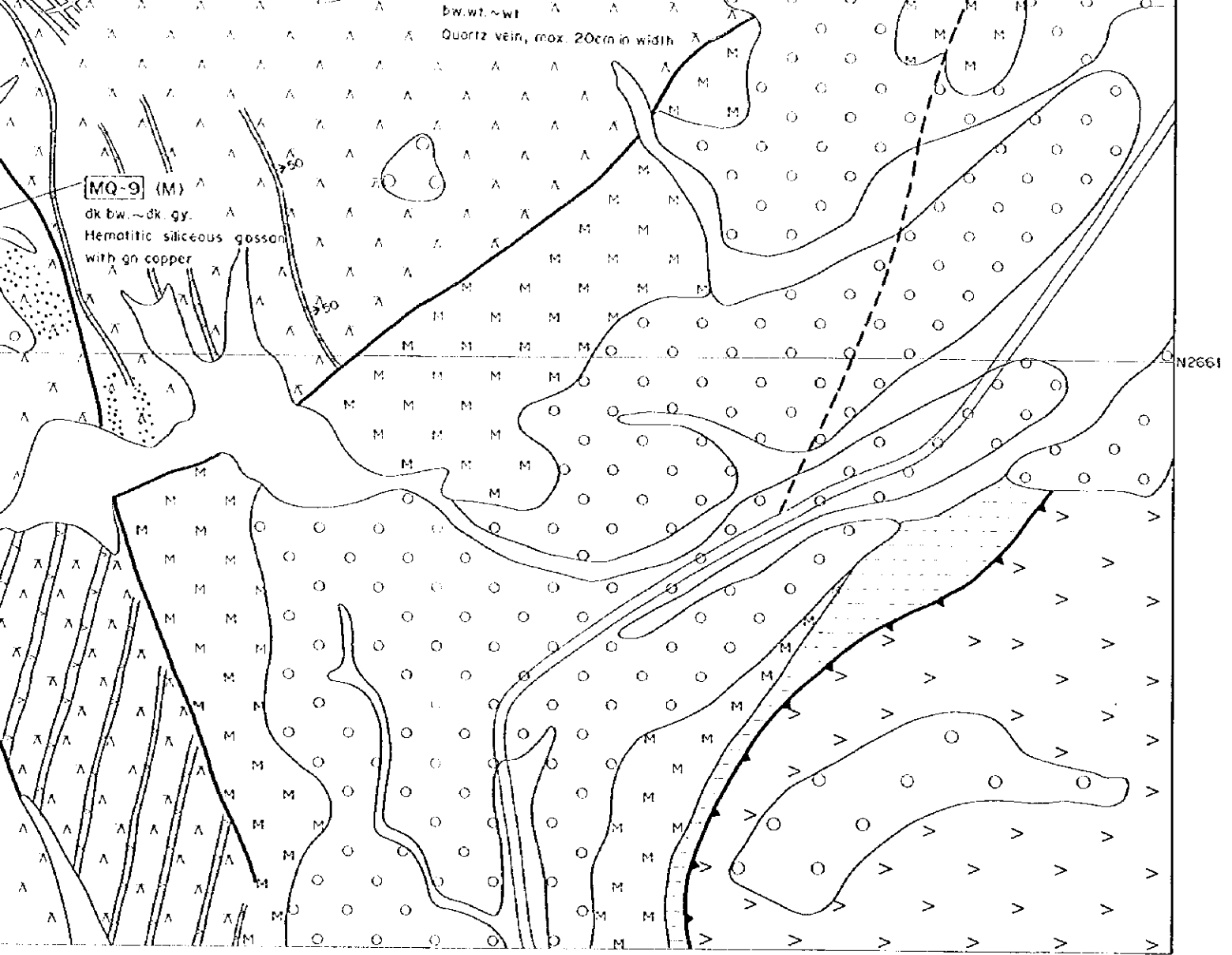
Plate II-1-14

REPORT ON THE MINERAL EXPLORATION
IN
THE SOUTH BATINAH COAST AREA, SULTANATE OF OMAN
PHASE I

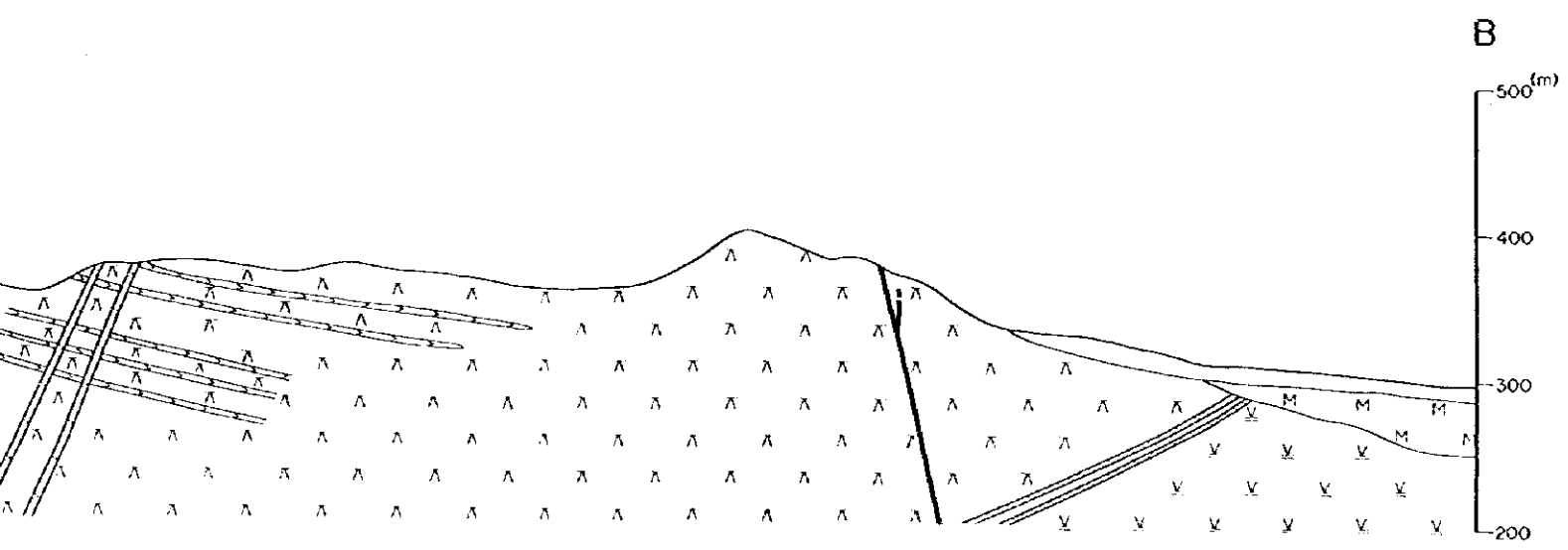
GEOLOGIC MAP AND PROFILE OF
MAQAIL SOUTH (Scale 1:2,500)

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
MARCH, 1998





E455



- Middle extrusives
 - V2m Basaltic massive lava
 - V2p Basaltic pillow lava
- Lower extrusives
 - U2 Metalliferous sediments
 - U1 Metalliferous sediments with radiolarian chert
 - VI-2 Lower extrusive 2; basaltic pillow lava and massive lava
 - VI-1 Lower extrusive 1; basaltic pillow lava and massive lava
- Sheeted-dyke Complex
 - SD Doleritic and basaltic dyke
 - D' Doleritic and basaltic dyke
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JICA