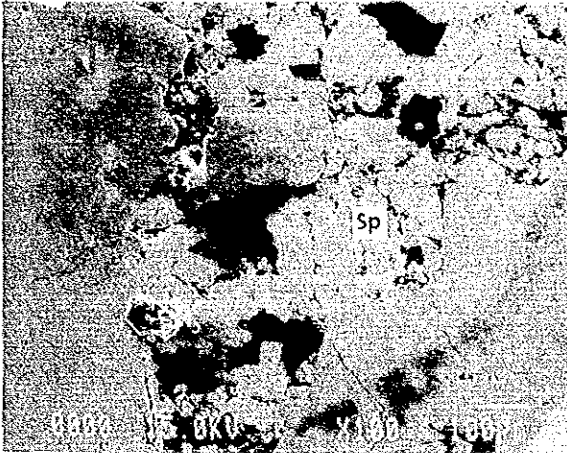


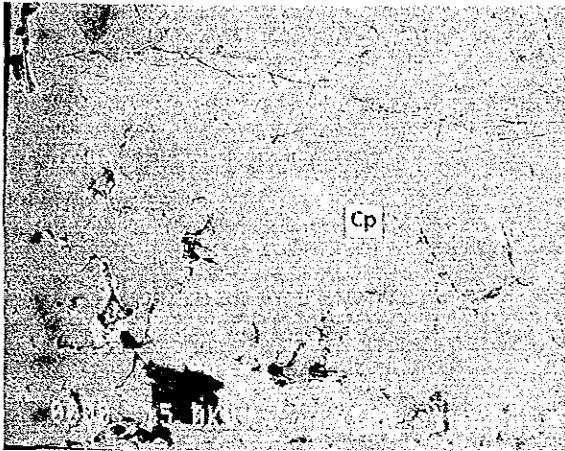
Appendix 9
SEM and Microprobe Images of Ore Samples



(1) SEM image

HS-17 (61.55 m)

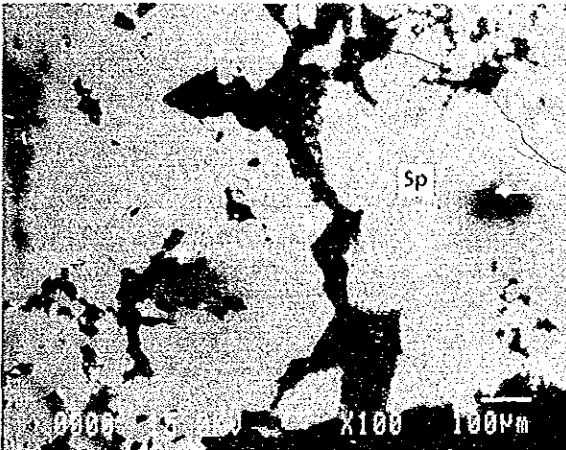
Mineral: sphalerite (Sp)
(quantitative analysis)



(2) SEM image

HS-17 (61.55 m)

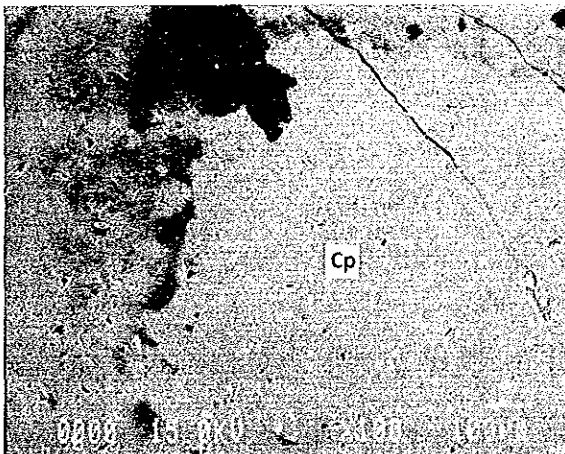
Mineral: chalcopyrite (Cp)
(qualitative analysis)



(3) SEM image

MJO-B4 (56.00 m)

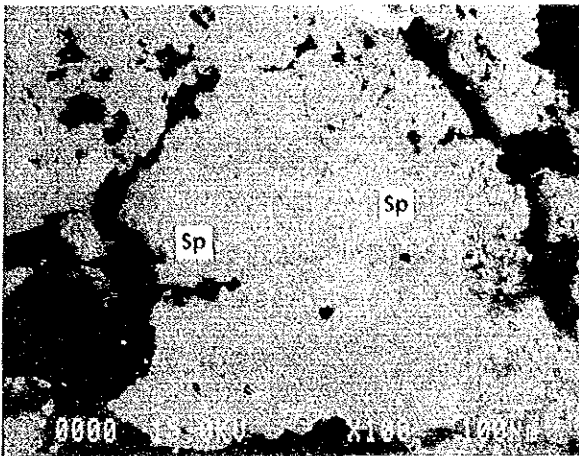
Mineral: sphalerite (Sp)
(quantitative analysis)



(4) SEM image

MJO-B4 (56.00 m)

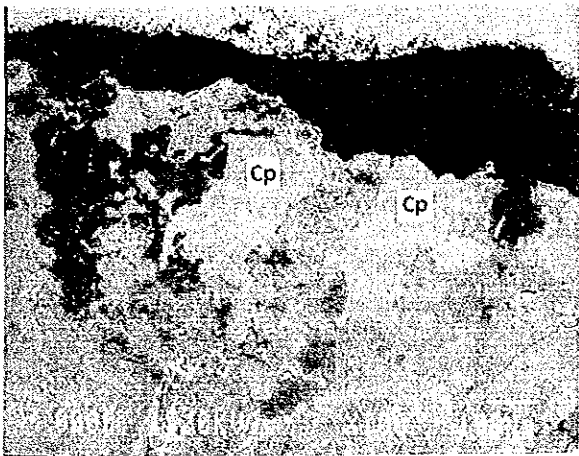
Mineral: chalcopyrite (Cp)
(qualitative analysis)



(5) SEM image

MJO-B4 (77.40 m)

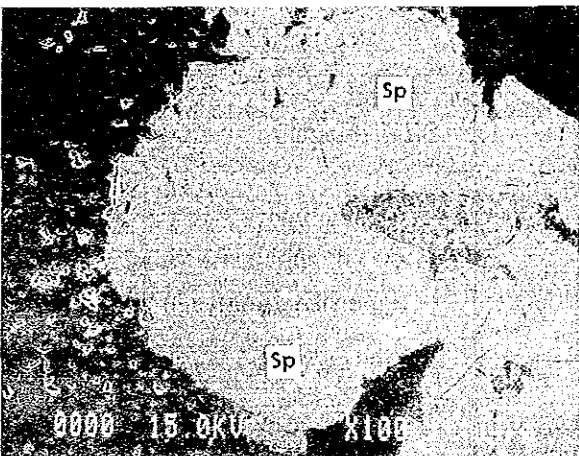
Mineral: sphalerite (Sp)
(quantitative analysis)



(6) SEM image

MJO-B4 (77.40 m)

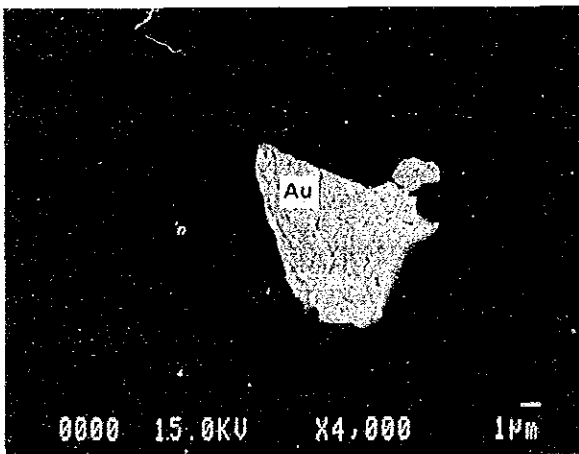
Mineral: chalcopyrite (Cp)
(qualitative analysis)



(7) SEM image

MJO-B6 (42.10 m)

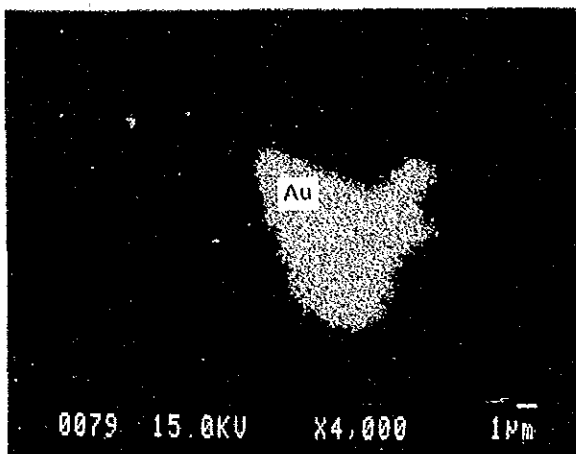
Mineral: sphalerite (Sp)
(quantitative analysis)



(8) SEM image

MJO-B6 (57.60 m)

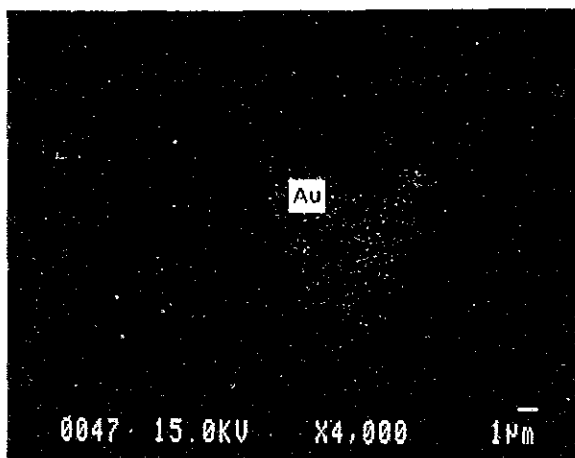
Mineral: native gold (Au)
(area analysis)



(9) Microprobe image (Au La)

MJO-B6 (57.60 m)

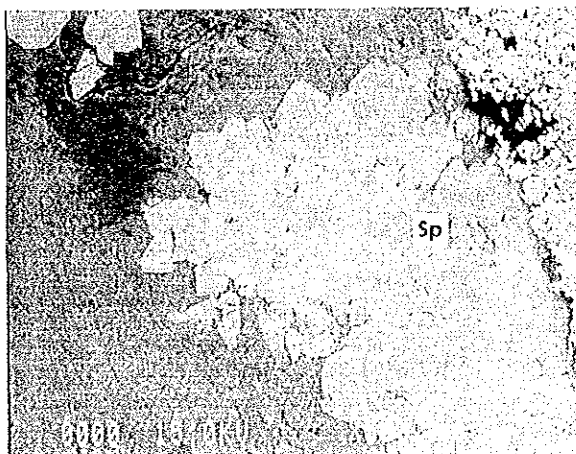
Mineral: native gold (Au)



(10) Microprobe image (Ag La)

MJO-B6 (57.60 m)

Mineral: native gold (Au)

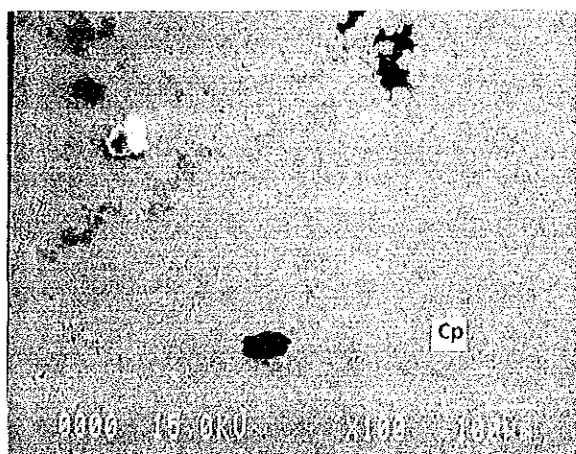


(11) SEM image

MJO-B6 (57.60 m)

Mineral: sphalerite (Sp)

(quantitative analysis)



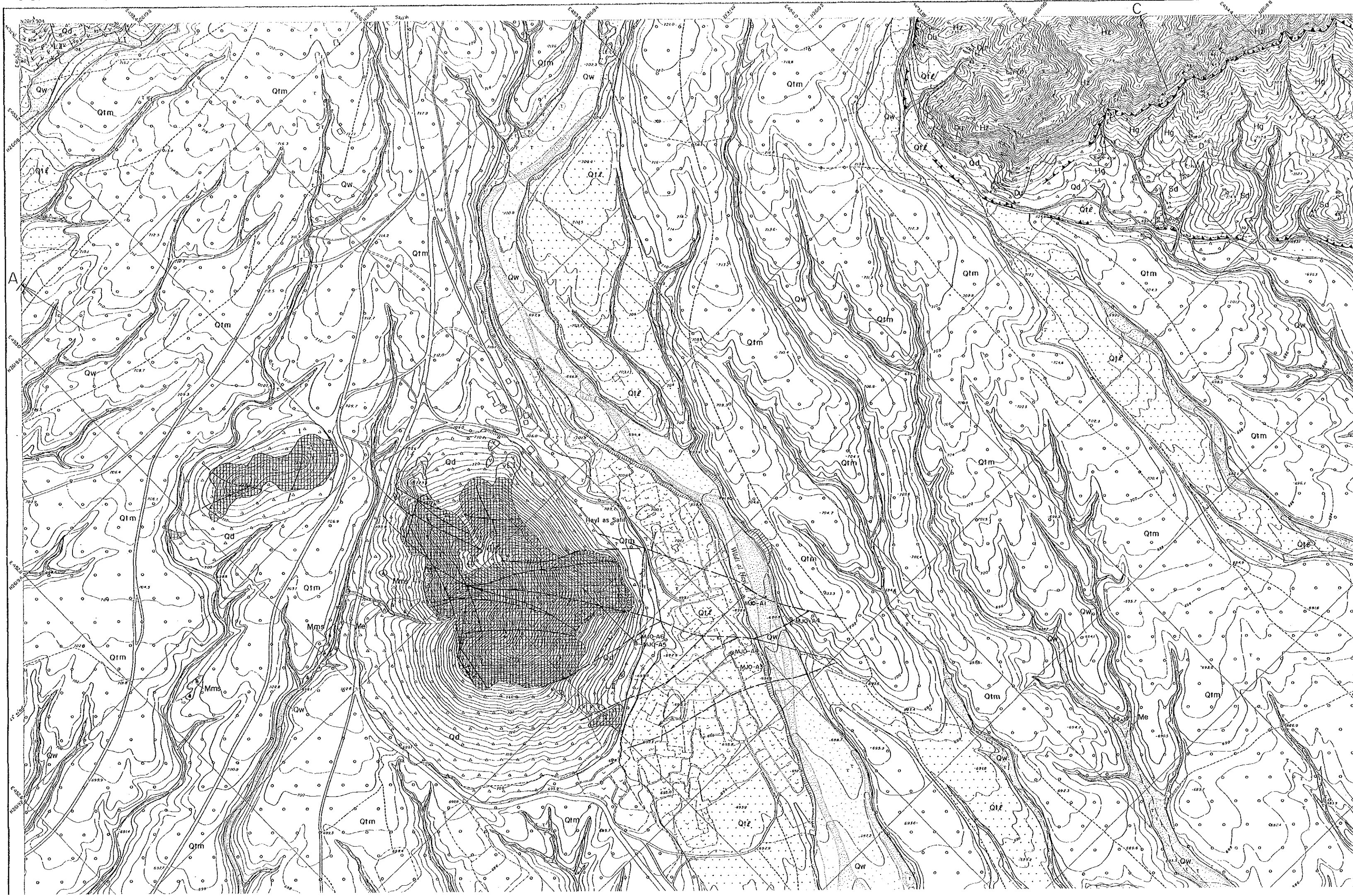
(12) SEM image

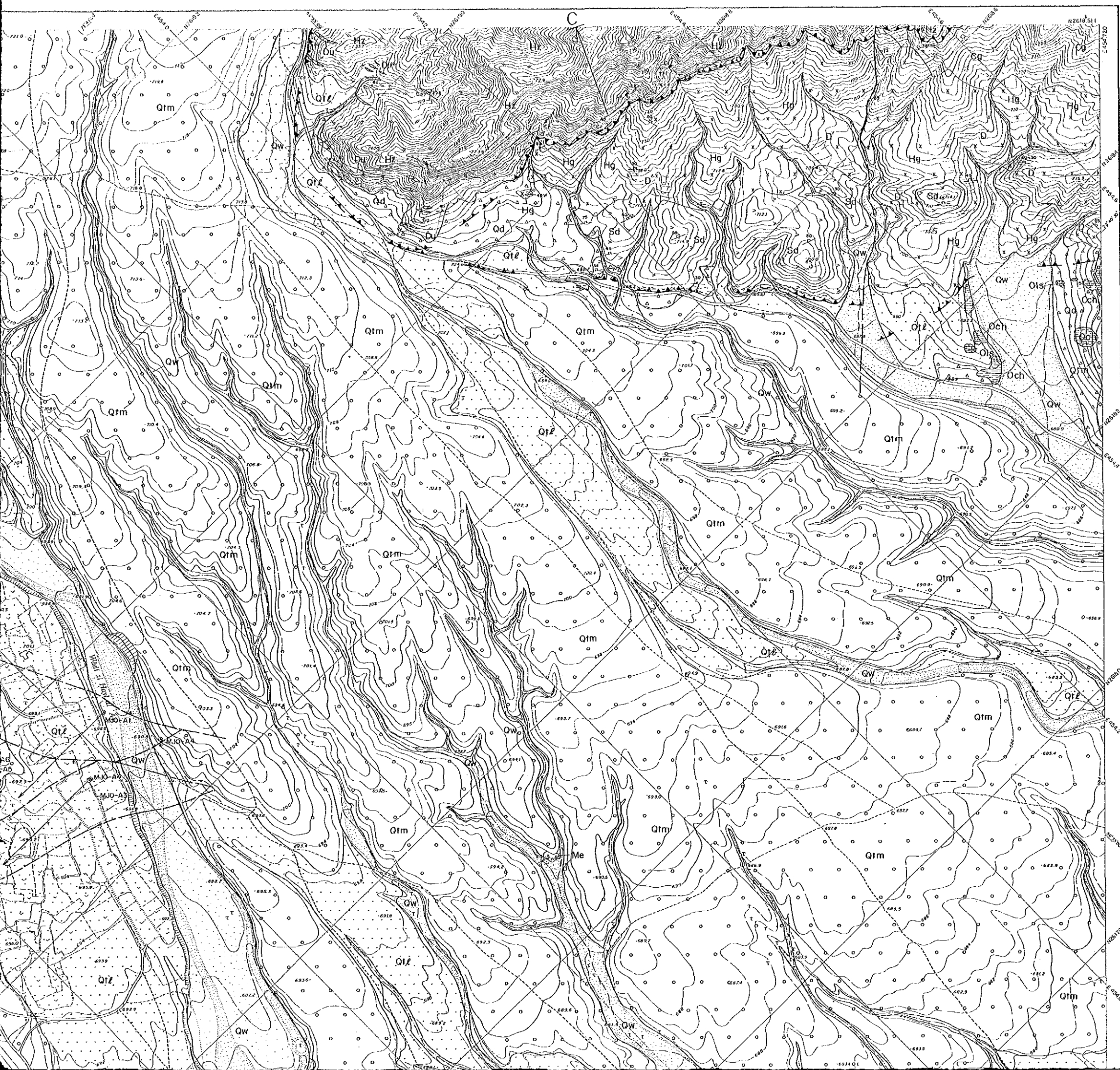
MJO-B6 (57.60 m)

Mineral: chalcopyrite (Cp)

(qualitative analysis)

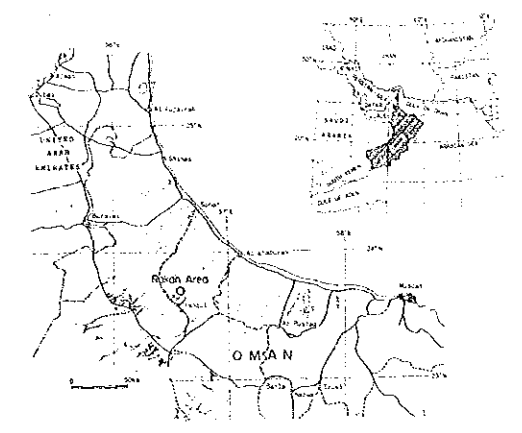
RAKAH A AREA





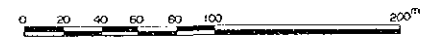
REPORT ON THE MINERAL EXPLORATION
IN
THE RAKAH AREA, SULTANATE OF OMAN
PHASE I

GEOLOGIC MAP OF AREA A



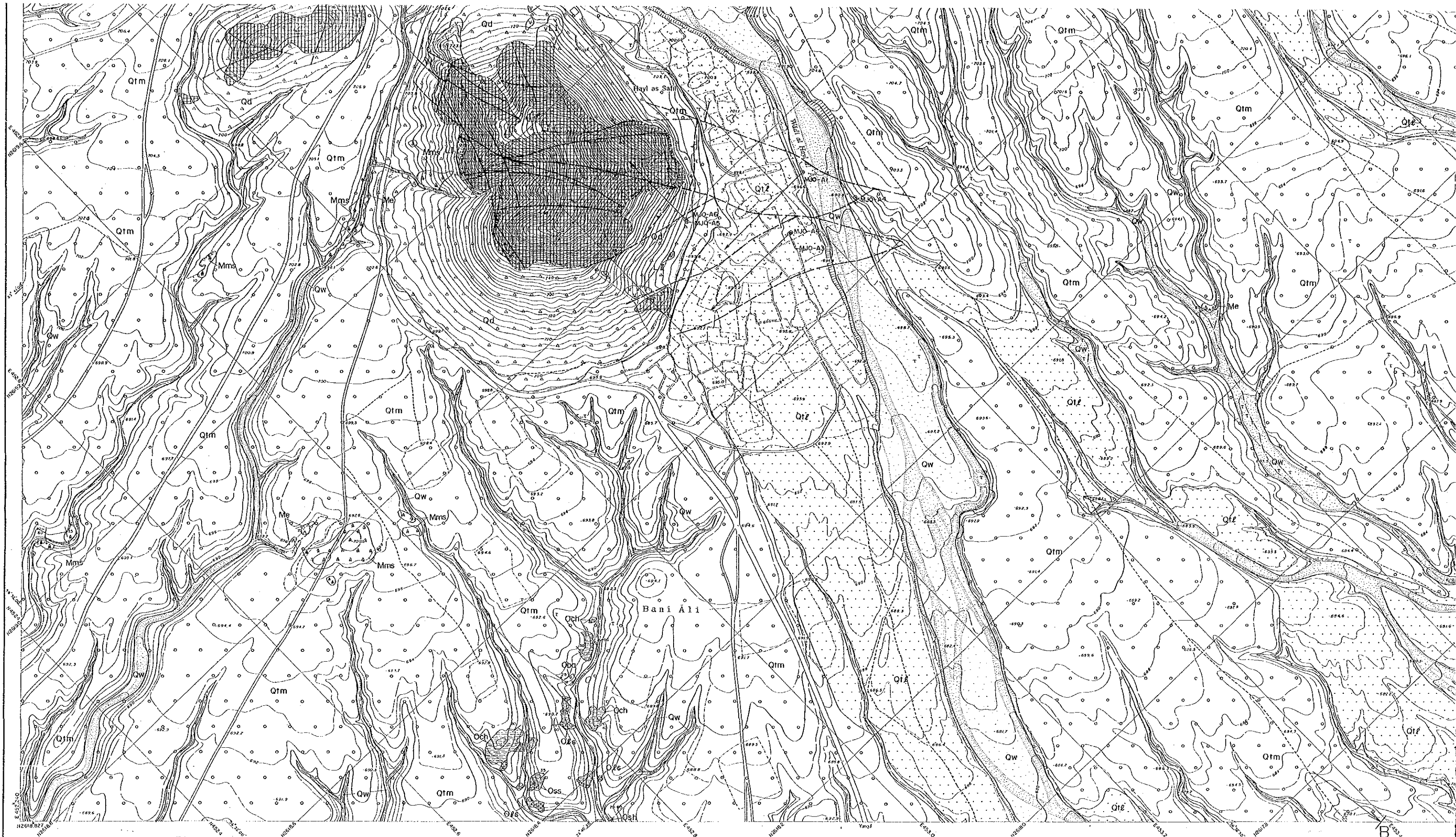
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
FEBRUARY, 1989

Scale 1 : 2,000



LEGEND

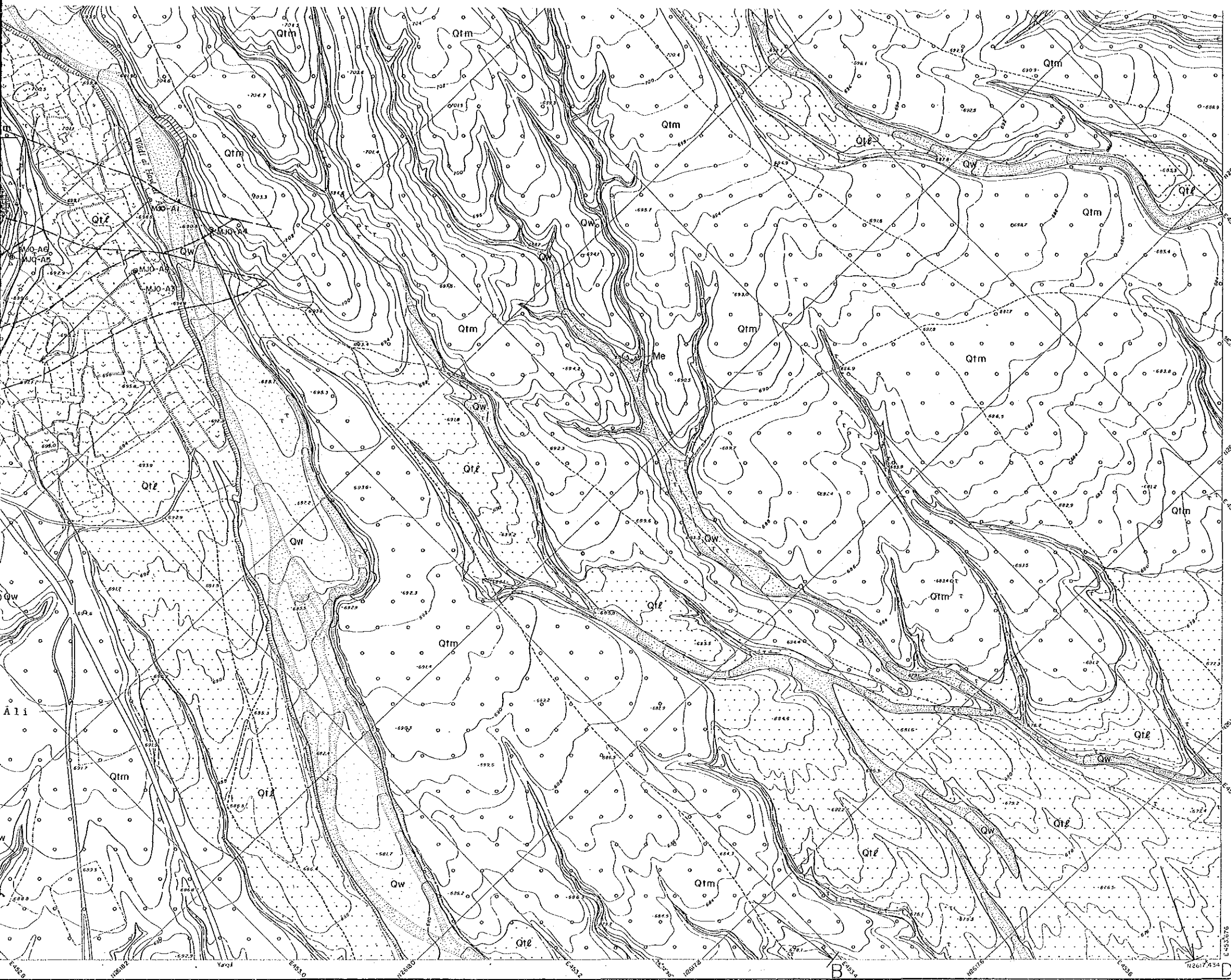
Quaternary	Holocene	Wadi Sediments	Qw, Gravel, sand
		Debris	Qd, Talus breccia
Pleistocene	Superficial Deposits	Lower Terrace Deposits	Qtl, Gravel, sand
		Middle Terrace Deposits	Qtm, Gravel, sand
Late Cretaceous	Supraophiolite Sequence	Batimah Olistostrome	Ols, Olistolith of limestone
			Ochl, Olistolith of chert
Sumail Nappes	Volcanic Rocks		Osh, Olistolith of shale
			Oss, Olistolith of sandstone
Early to Middle Cretaceous	Samail Ophiolite		Oba, Olistolith of basalt
			Me, Pillow lavas
			Mms, Massive lavas
			Mm, Metalliferous sediments
		Lower Volcanic Rocks	Lower Extrusives II
			Lower Extrusives I
			LJ, Pillow lavas
			Sd, Sheeted dykes
			Hg, High-level gabbro
			Cg, Cumulate layered gabbro
			Hr, Harzburgite
			Du, Dunite
			Cr, Chromitite
			Ga, Gabbro
			D', Dykes
		Stratification; inclined	Contact
		Stratification of pillow lavas; inclined	Fault; dashed where inferred or concealed
		Layering; inclined	Thrust fault, saw-tooth, showing dip
		Vegetation; inclined	Veins
		Dyke; inclined	Gossan
		Shear zone	Drill hole
			Section



1:2,000



B

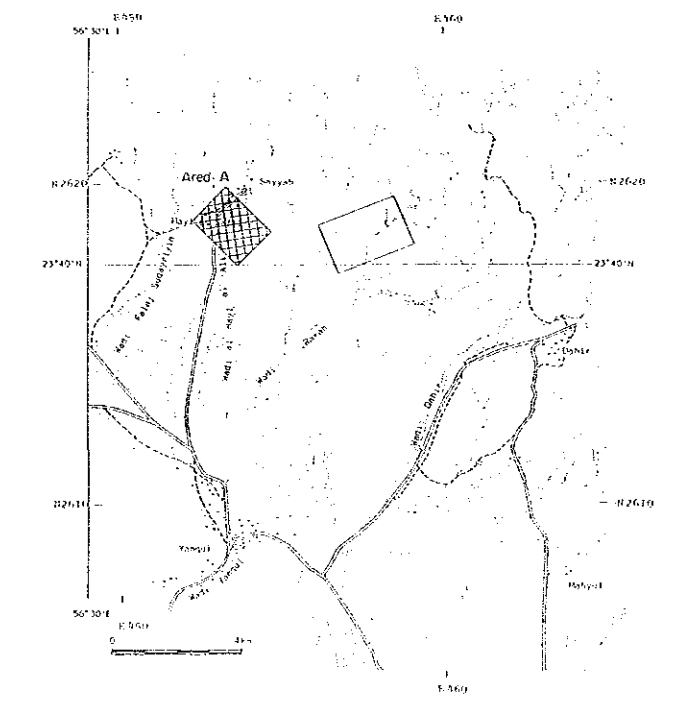


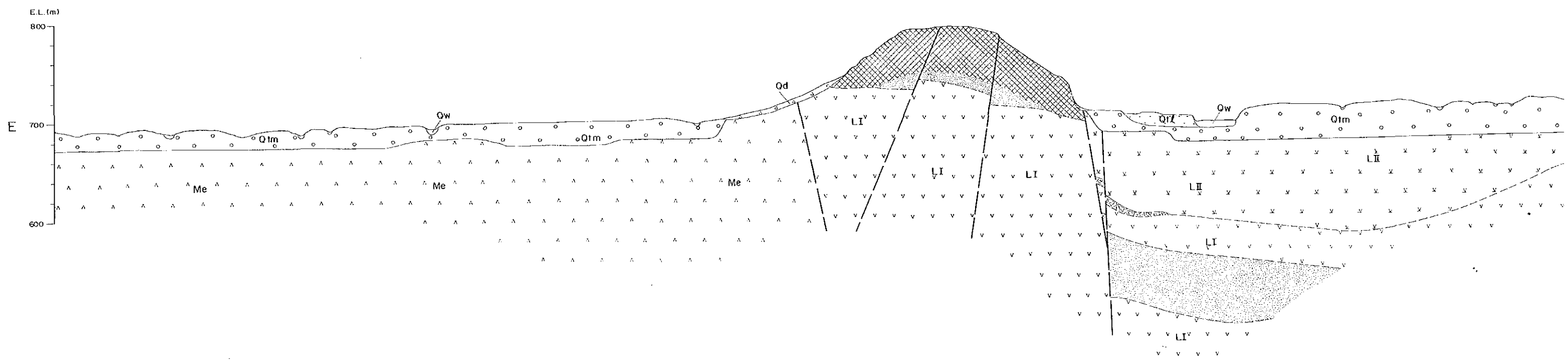
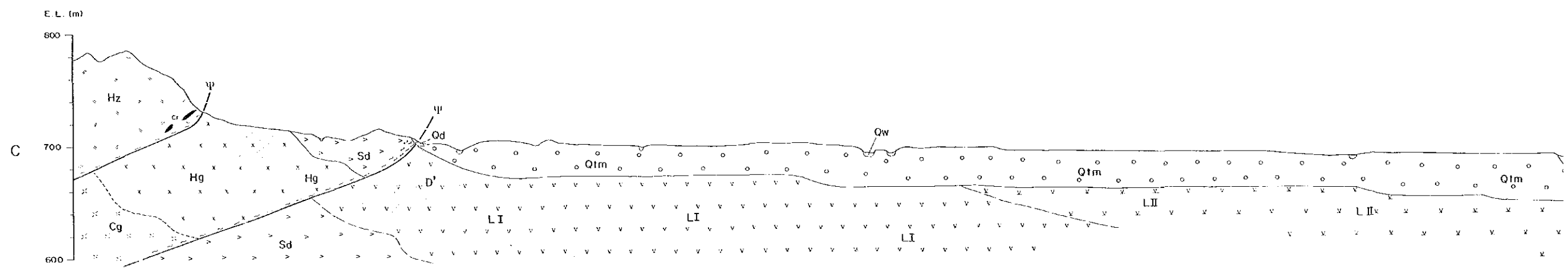
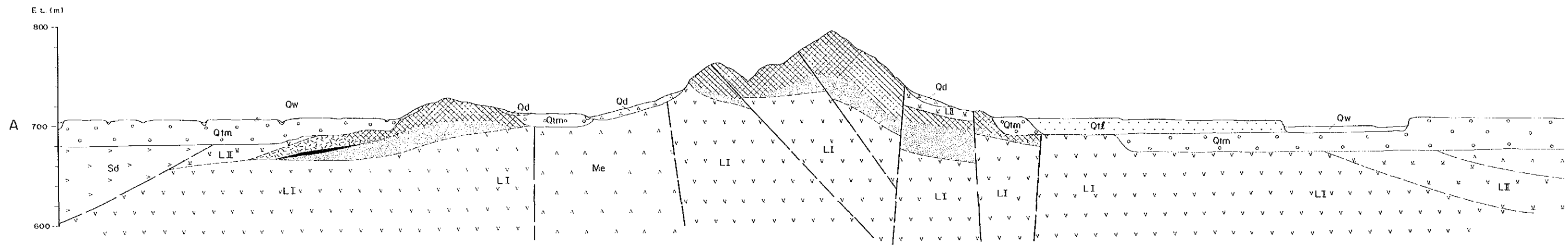
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LEGEND

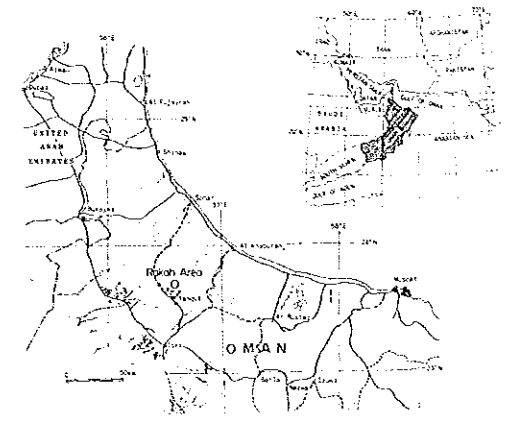
Quaternary	Wadi Sediments	Qw, Gravel, sand	
	Debris	Qd, Talus breccia	
Pliocene, Holocene	Terrace Deposits	Qtl, Gravel, sand	
		Qun, Gravel, sand	
Late Cretaceous	Batnah Olistostome	Ols, Olistolith of limestone	
		Och, Olistolith of chert	
Samaal Nappe	Middle Volcanic Rocks	Osh, Olistolith of shale	
		Oss, Olistolith of sandstone	
		Obo, Olistolith of basalt	
		Me, Pillow lavas	
		Mms, Massive lavas	
	Lower Volcanic Rocks	Mm, Metalliferous sediments	
		Lower Extrusives II	I.II, Pillow and massive lavas
		Lower Extrusives I	I.I, Pillow lavas
		Sheeted-dyke Complex	Sd, Sheeted dykes
		High-level Gabbro	Hg, High-level gabbro
Samaal Ophiolite	Cumulate Sequence	Cg, Cumulate layered gabbro	
		Hr, Harzburgite	
		Du, Dunite	
Tectonites		Cr, Chromitite	
		Ga, Gabbro	
		D', Dykes	
Early to Middle Cretaceous	Intrusive Rocks		

Stratification; inclined	Contact
Stratification of pillow lavas; inclined	Fault; dashed where inferred or concealed
Layering; inclined	Thrust fault; saw-teeth, showing dip
Foliation; inclined	Vein
Dyke; inclined	Gossan
Shear zone	Drill hole
	Section



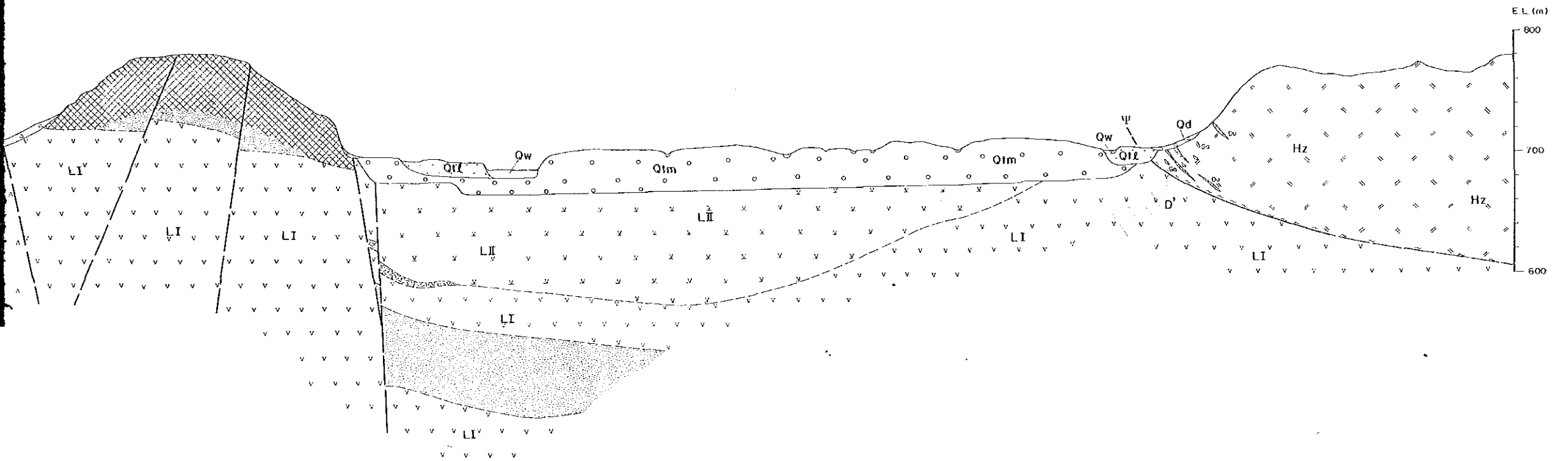
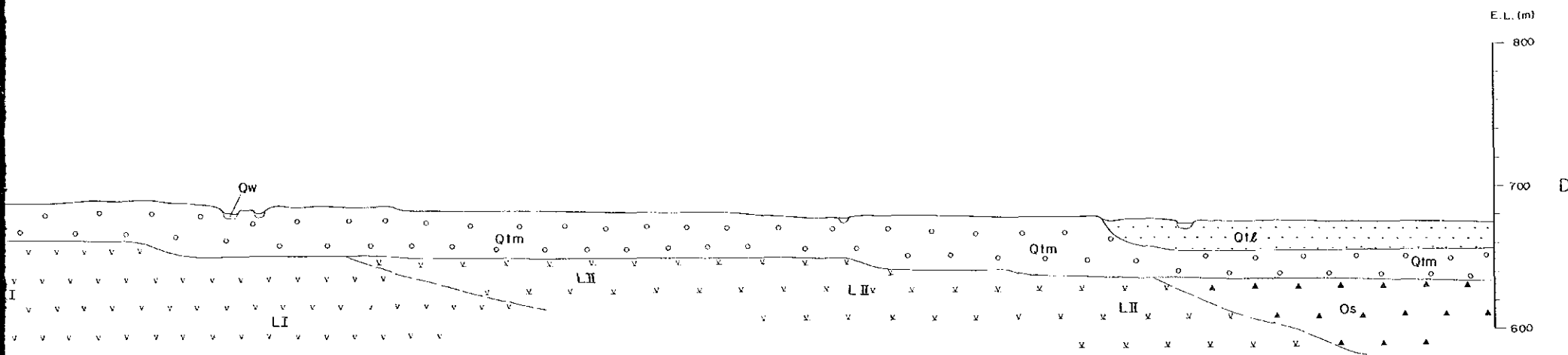
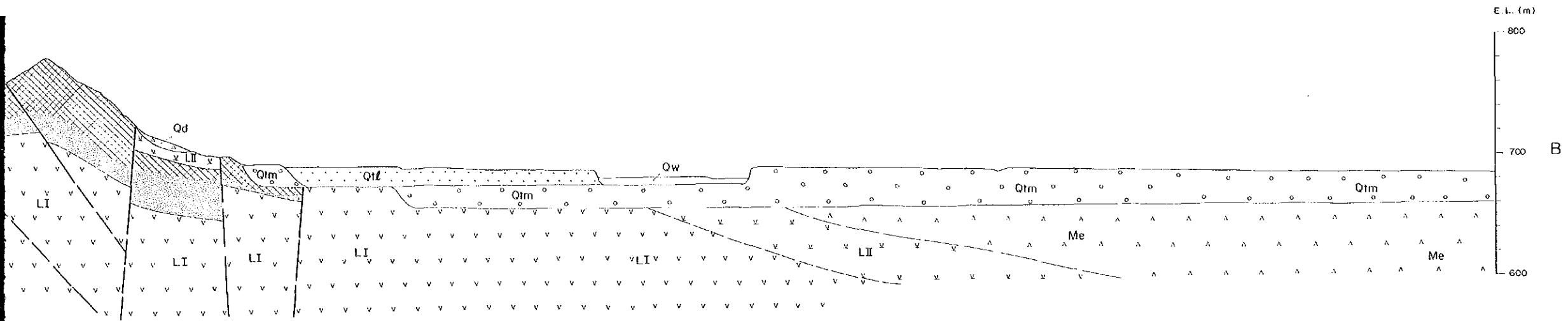
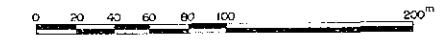


REPORT ON THE MINERAL EXPLORATION
IN
THE RAKAH AREA, SULTANATE OF OMAN
PHASE I
GEOLOGIC SECTIONS OF AREA A



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
FEBRUARY, 1989

Scale 1 : 2,000



LEGEND

Quaternary	Wadi Sediments	Qw, Gravel, sand
	Debris	Qd, Talus breccia
Pleistocene Holocene	Terrace Deposits	AtI, Gravel, sand
		Atm, Gravel, sand
	Batimah Olistostrome	Os, Olistoliths
		Middle Volcanic Rocks
Samail Volcanic Rocks	Lower Extrusives II	LII, Pillow and massive lavas
	Lower Extrusives I	LI, Pillow lavas
	Sheeted-dyke Complex	Sd, Sheeted-dykes
Early to Middle Cretaceous	High-level Gabbro	Hg, High-level gabbro
	Cumulate Sequence	Cg, Cumulate layered gabbro
Samail Ophiolite		Hz, Harzburgite
		Du, Dunite
		Cr, Chromitite
		Ga, Gabbro
Intrusive Rocks		D', Dykes

Contact	Gossanized zone
Fault, dashed where inferred or concealed	Brecciated ore zone
Thrust fault; saw teeth, showing dip	Massive ore zone
Shear zone	Stockwork ore zone