

REPORT
ON
THE MINERAL EXPLORATION
IN
THE HAOUZ CENTRAL AREA
KINGDOM OF MOROCCO

PHASE I

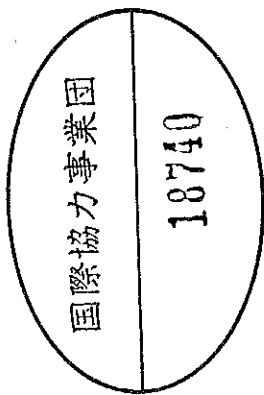
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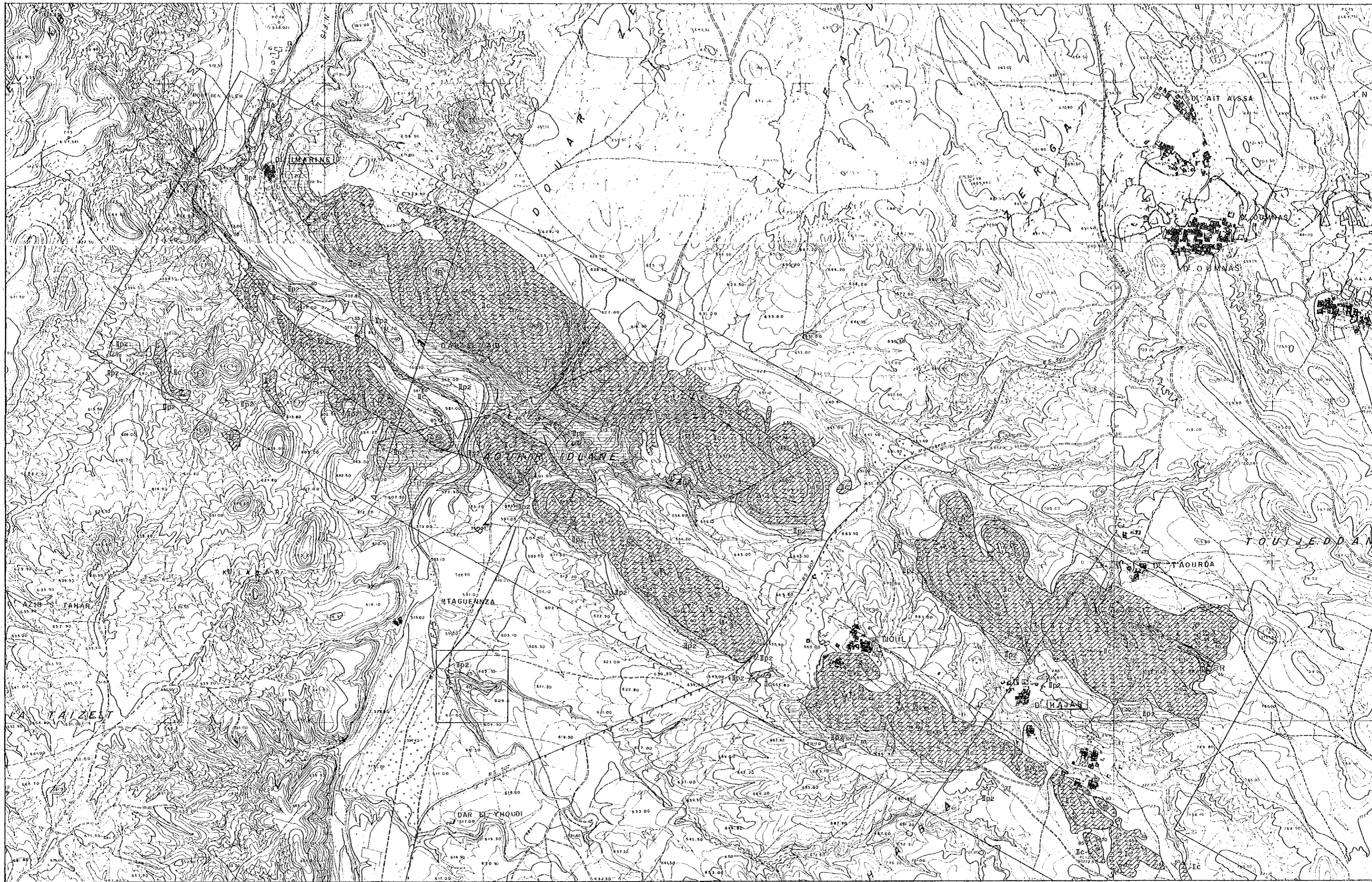


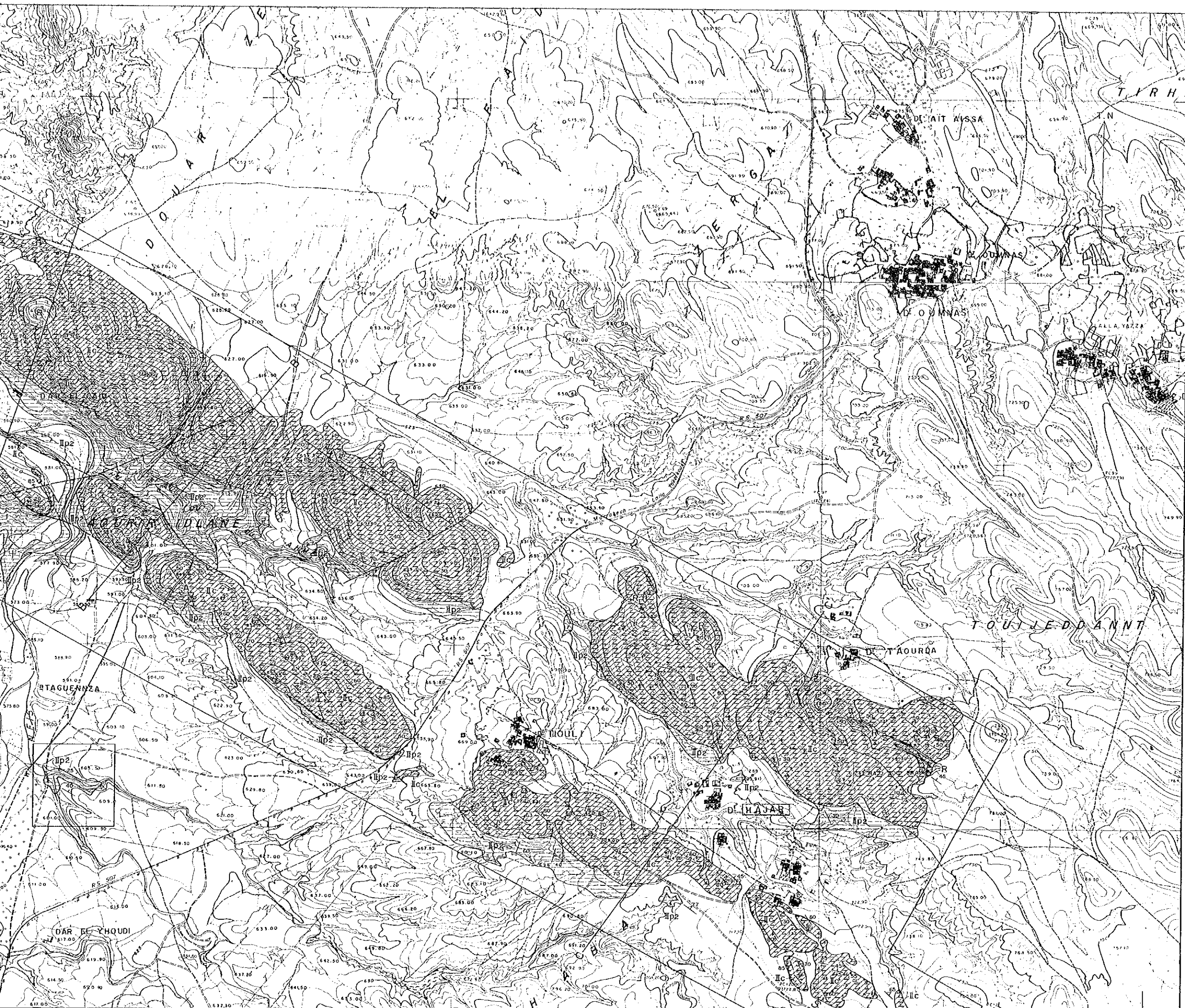
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COOPERATIVE MINERAL EXPLORATION
IN
HAOUZ CENTRAL AREA, MOROCCO
(PHASE I)

GEOLOGICAL MAP OF THE
HAJAR-AMZOURH AREA
(I) NORTHERN PART

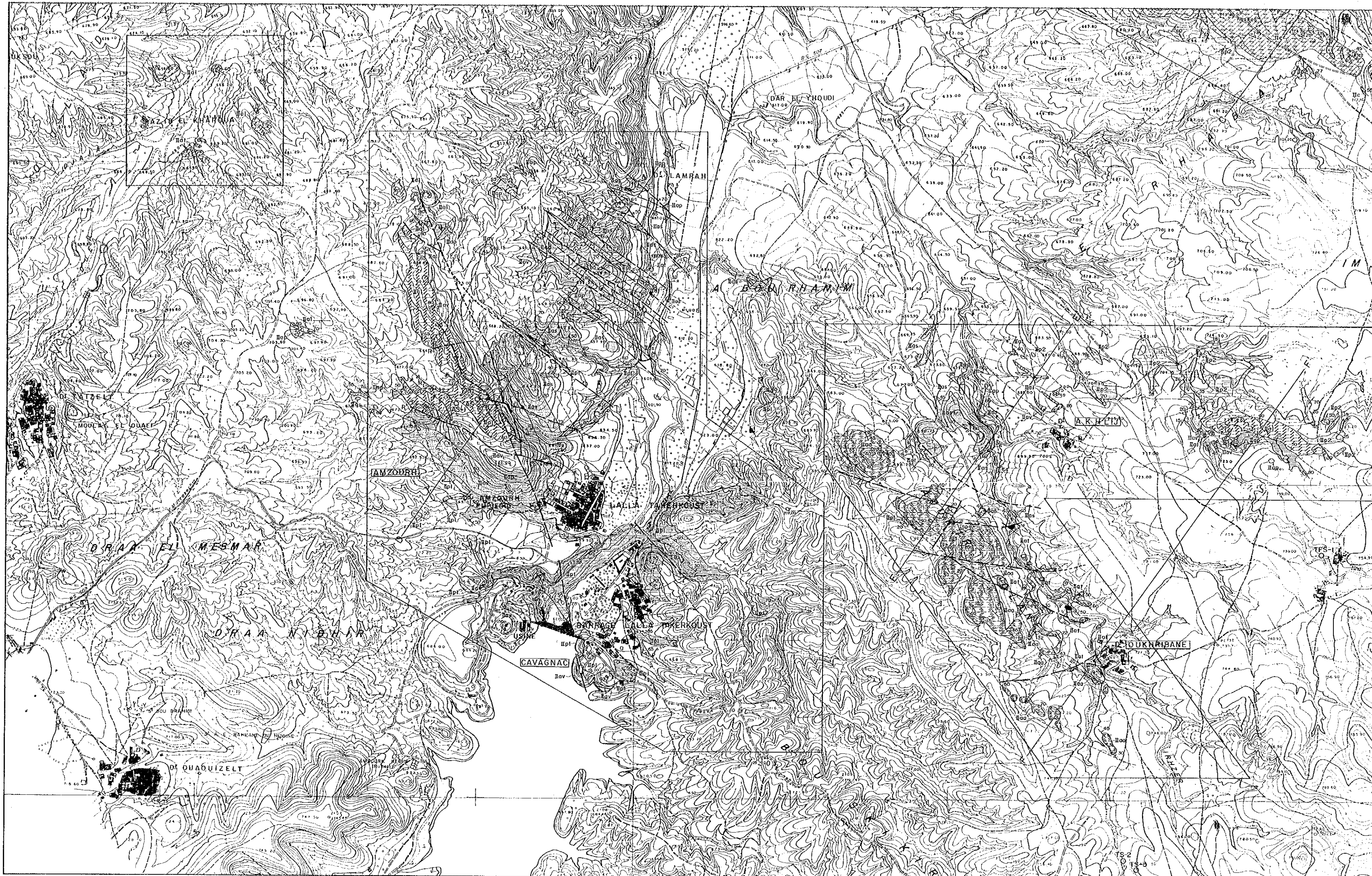
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
FEBRUARY 1989
Prepared by MINDECO



Scale 1 : 10,000

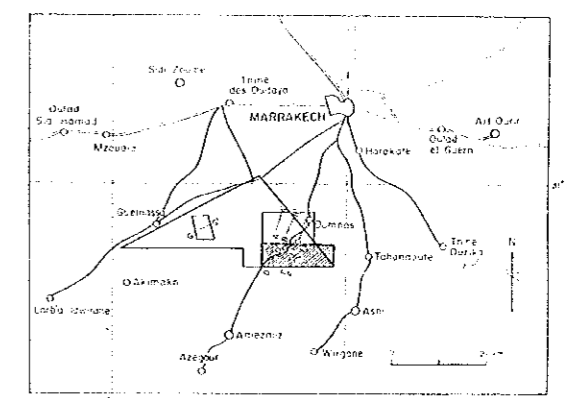
LEGEND

Quaternary	Q	Gravel-sand-mud	
Pliocene	Pp2	Calcareous-silty semischist	
	Pp2	Pelitic semischist with limestone	
	Pp1	Limestone-mudstone alternation	
	Pp1	Acidic volcanics	
	Pp1	Pelitic schist	
	Pp1	Sandstone-mudstone alternation	
	Pp1	Tuff, acidic volcanics	
	Pp1	Tuff-calcareous siltstone alternation	
	Pp1	Pelitic schist	
	Pp1	Pelitic schist	
Paleozoic	Pp	Limestone	
	Pp	Marly schist and pelitic schist	
	Pp	Sandstone-mudstone alternation	
	Pp	Marly schist with limestone thin bed	
	Pp	Siltstone-mudstone alternation	
	Pp	Marly schist	
	Pp	Volcanics (rhyolite and tuff)	
	Pp	Psammitic schist-pelitic schist	
	Carboniferous	R	Rhyolite, dacite
		D	Diorite, dolerite
G		Gabbro	
A		Andesite	
Intrusive rock		Geologic boundary	
		Bedding plane	
		Schistosity	
		Synclinal axis	
		Anticlinal axis	
		Fault, confirmed and inferred	
		Carbonate, quartz vein Gossan	



COOPERATIVE MINERAL EXPLORATION
IN
HAOUZ CENTRAL AREA, MOROCCO
(PHASE II)

GEOLOGICAL MAP OF THE
HAJAR-AMZOURH AREA
(2) SOUTHERN PART



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FEBRUARY 1989
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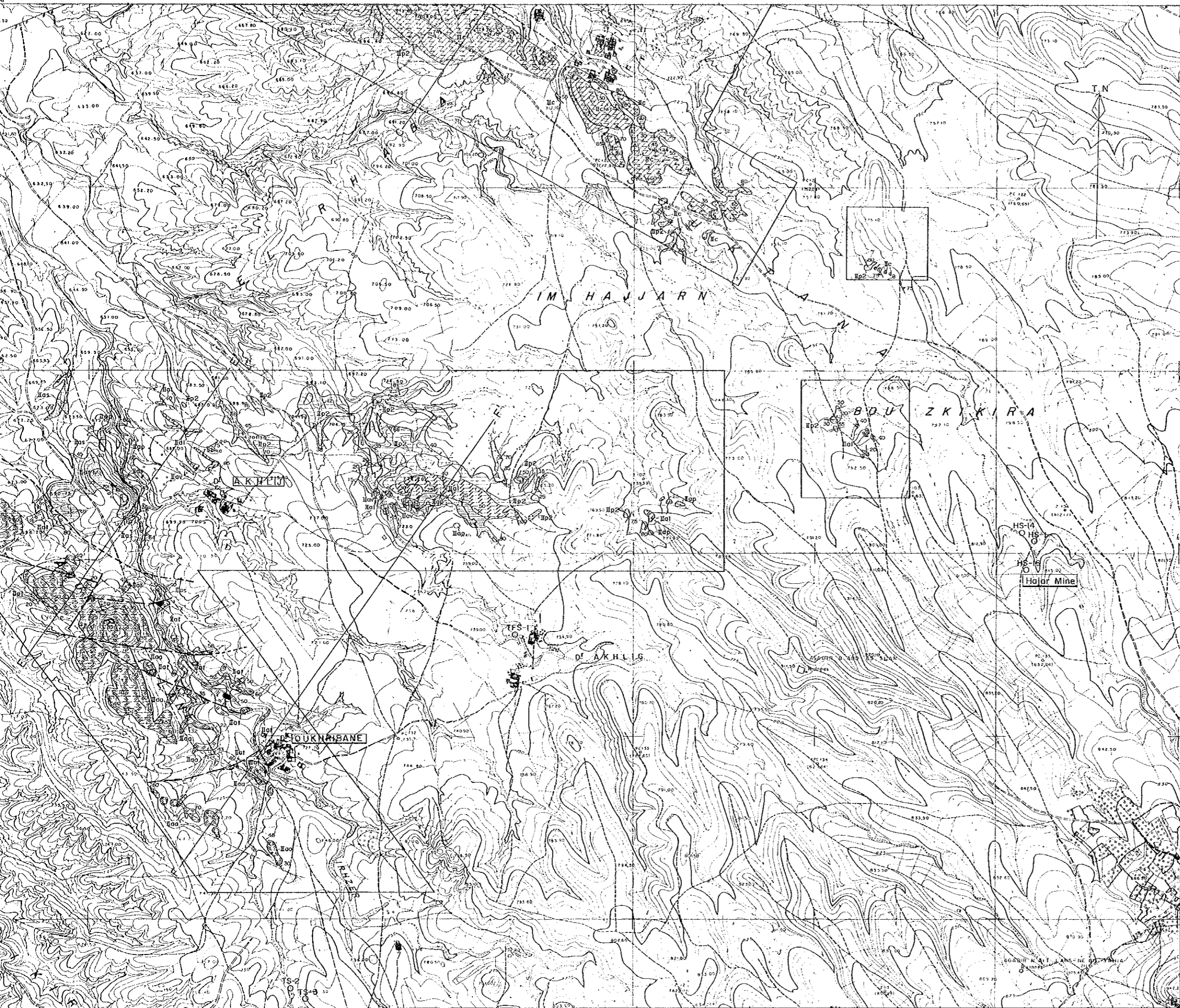


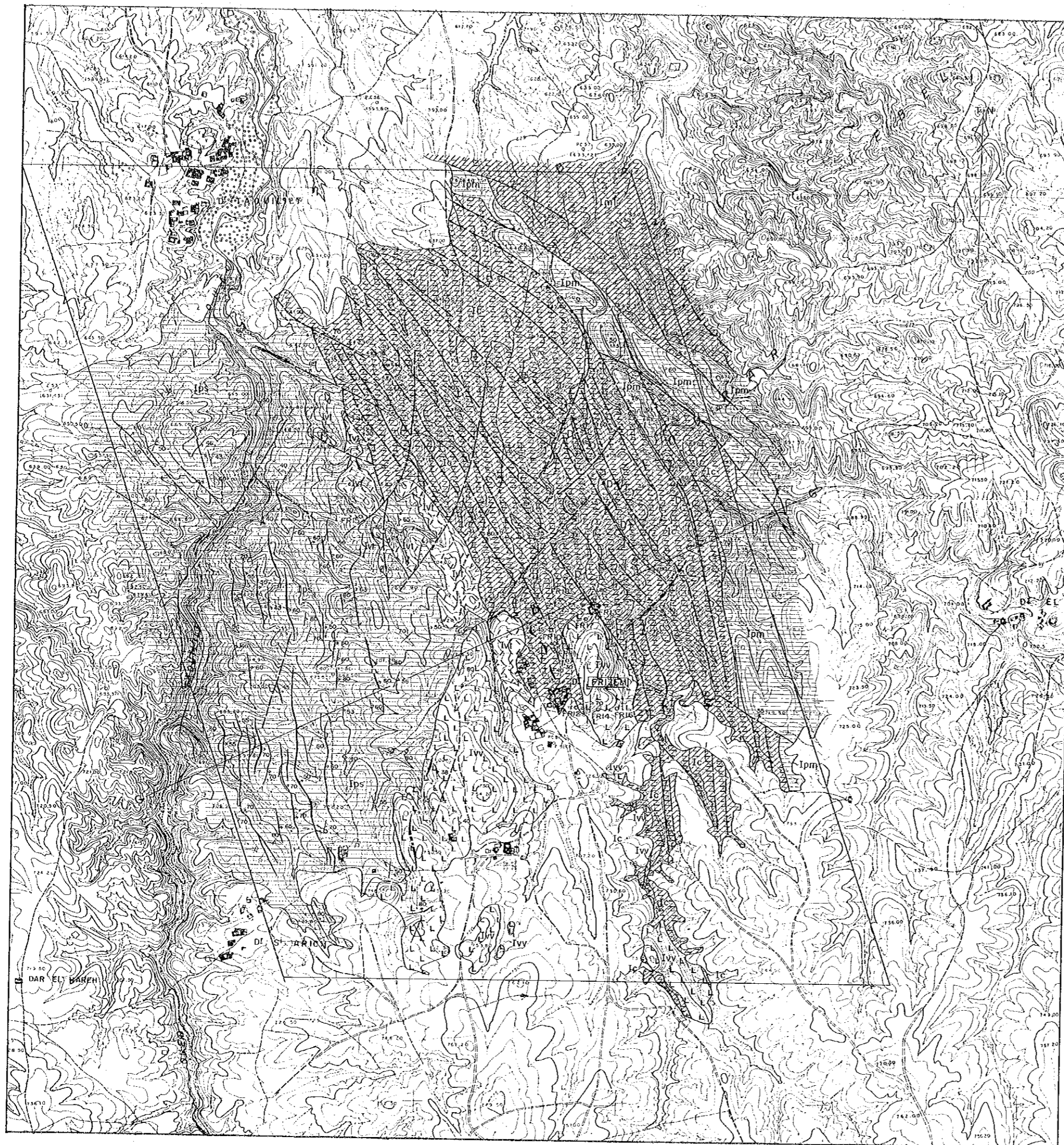
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LEGEND

Quaternary	O	Gravel-sand-mud			
Pliocene	Ilc	Calcareous-silty semischist			
	Ipz	Pelitic semischist with limestone			
	Ial	Limestone-mudstone alternation			
	Iev	Acidic volcanics			
	Iap	Pelitic schist			
	Ios	Sandstone-mudstone alternation			
	Iot	Tuff, acidic volcanics			
	Ioa	Tuff-calcareous siltstone alternation			
	Paleozoic	Ipl	Pelitic schist		
		Permian	Ip	Pelitic schist	
			Carboniferous	Il	Limestone
				Imp	Marly schist and pelitic schist
Ism				Sandstone mudstone alternation	
Imt				Marly schist with limestone thin bed	
Ipm				Siltstone-mudstone alternation	
Ic				Marly schist	
Ivt				Volcanics (rhyolite and tuff)	
Ivv				Volcanics (rhyolite and tuff)	
Ips				Psammitic schist-pelitic schist	
Intrusive rock				R	Rhyolite, dacite
	D			Diorite, diorite	
	G	Gabbro			
	A	Andesite			

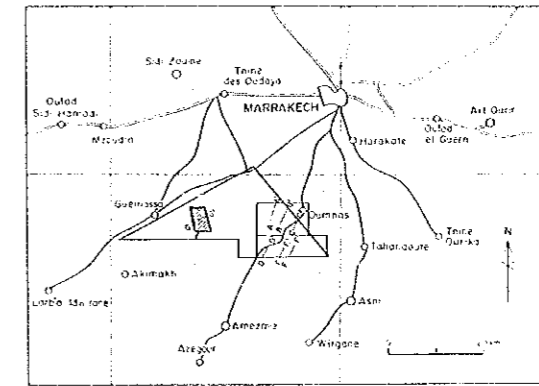
	Geologic boundary
	Bedding plane
	Schistosity
	Synclinal axis
	Anticlinal axis
	Fault, confirmed and inferred
	Carbonate, quartz vein
	Gossan





COOPERATIVE MINERAL EXPLORATION
IN
HAOUZ CENTRAL AREA, MOROCCO
(PHASE I)

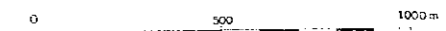
GEOLOGICAL MAP OF
THE FRIZEM AREA



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METAL MINING AGENCY OF JAPAN

FEBRUARY 1989

Prepared by MINDECO



Scale 1 : 10,000

LEGEND

Quaternary Pliocene	Q	Gravel-sand-mud	
	Ic	Calcareous-silty semischist	
	Ipe	Pelitic semischist with limestone	
	Ial	Limestone-mudstone alternation	
	Iav	Acidic volcanics	
	Iap	Pelitic schist	
	Ias	Sandstone-mudstone alternation	
	Iat	Tuff, acidic volcanics	
	Iao	Tuff-calcareous siltstone alternation	
	Palaeozoic Permian Carboniferous	Ipi	Pelitic schist
		Ip	Pelitic schist
		Il	Limestone
		Imp	Marly schist and pelitic schist
		Ism	Sandstone-mudstone alternation
Iml		Marly schist with limestone thin bed	
Ipm		Siltstone-mudstone alternation	
Ic		Marly schist	
Ivt		Volcanics (rhyolite and tuff)	
Ivv		Psammitic schist-pelitic schist	
Intrusive rock	R	Rhyolite, dacite	
	D	Diorite, dolerite	
	G	Gabbro	
	A	Andesite	
		Geologic boundary	
		Bedding plane	
		Schistosity	
		Synclinal axis	
		Anticlinal axis	
		Fault, confirmed and inferred	
		Carbonate, quartz vein	
		Gossan	