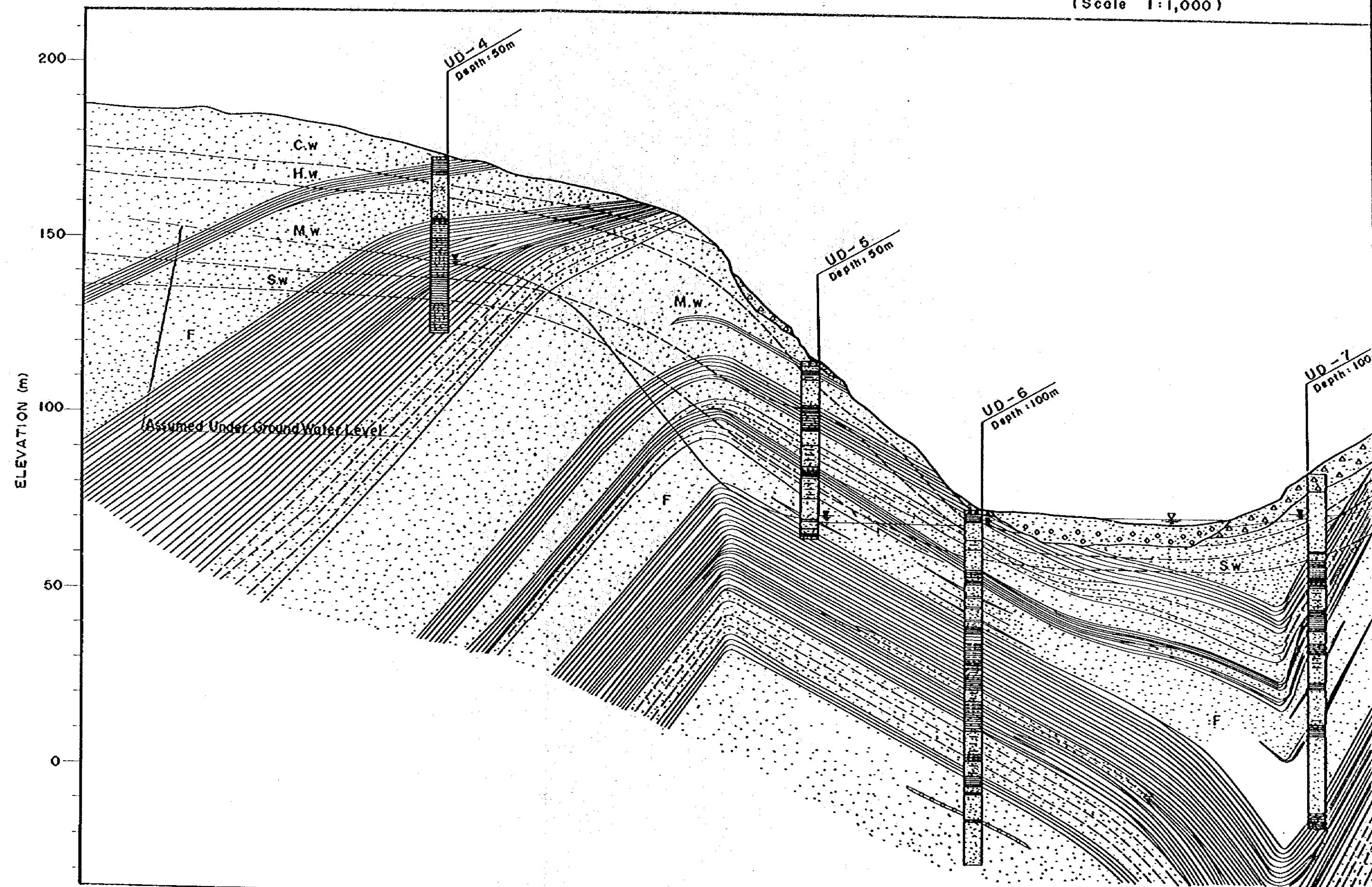


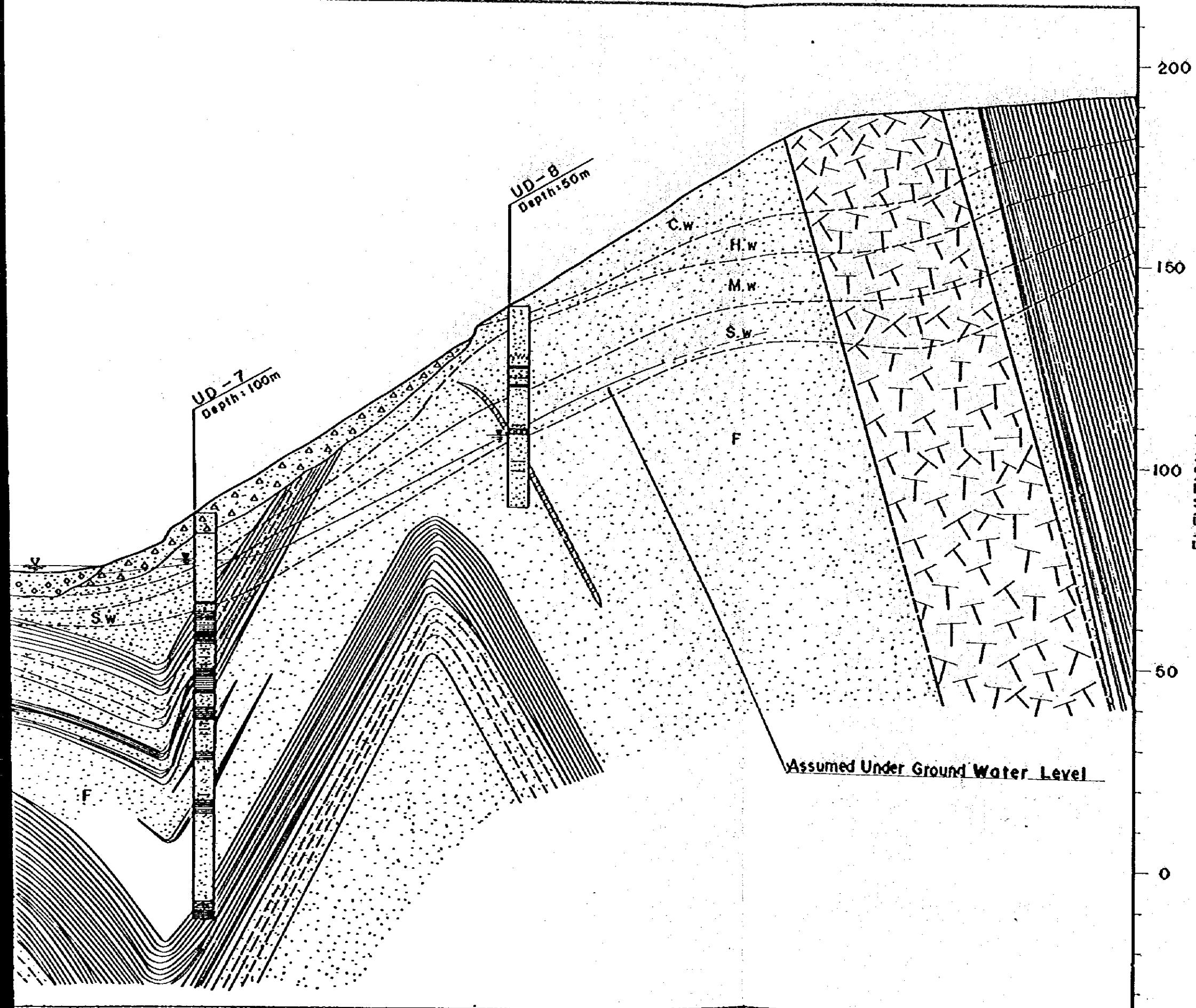
Fig. 4.4 LITHOLOGIC PROFILE OF UPPER TEKAI DAM S

(Scale 1:1,000)



ER TEKAI DAM SITE

1:1,000



LEGEND

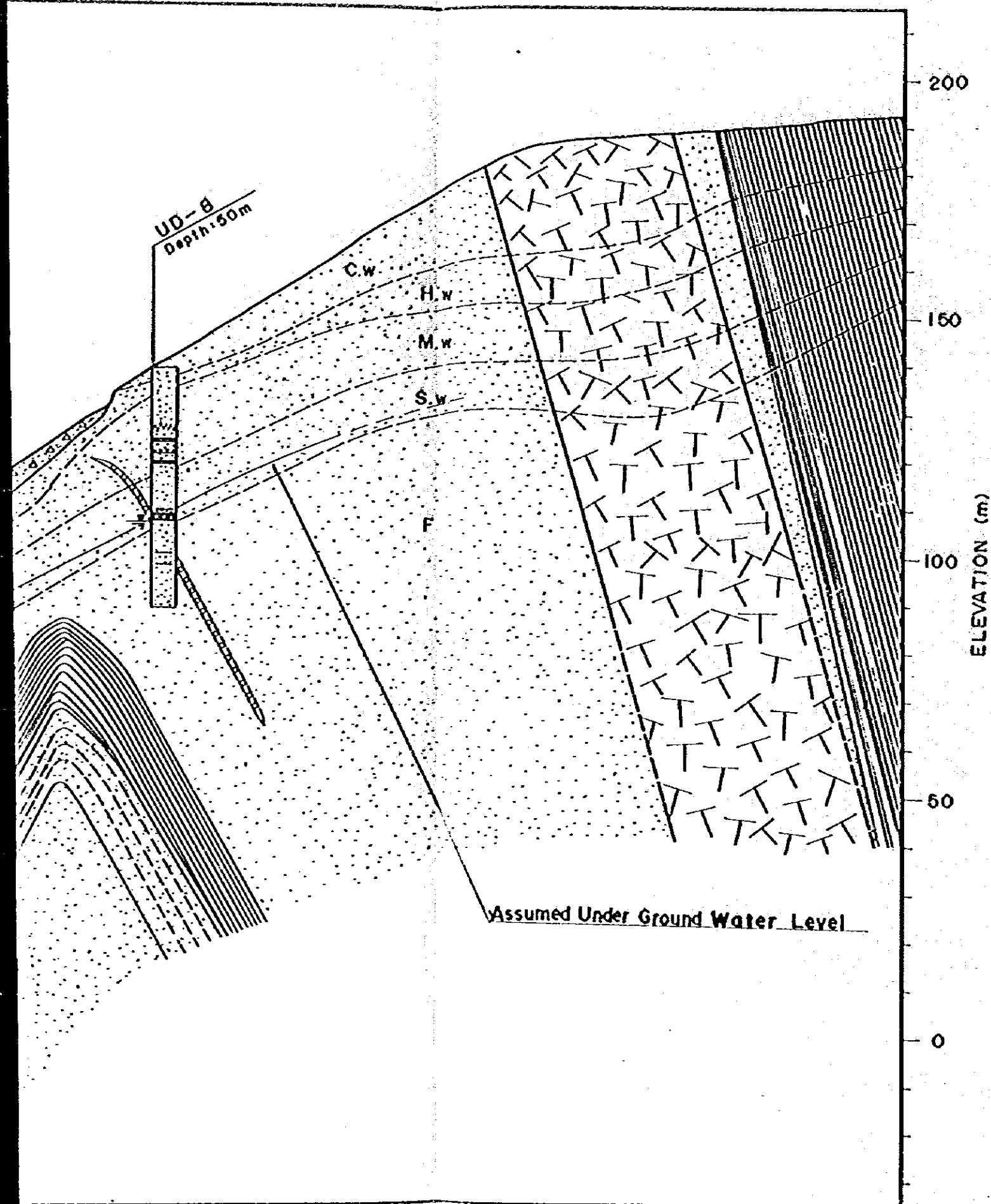
UD-4	Hole No, Carried out in 1982
[Symbol: Hatched]	Mainly quartzose sandstone, Sandstone with shale layer
[Symbol: Shaded]	Shale
[Symbol: Dotted]	Silty shale
[Symbol: Cross-hatched]	Shaly sandstone
[Symbol: Dashed]	Sandy shale
[Symbol: Alternating dots]	Alternation of sandstone and shale
[Symbol: Circles]	Conglomerate
[Symbol: Triangles]	Boulder, breccia and clayey sand
[Symbol: Dots with diagonal line]	Fractured zone with clay. Cracky zone
[Symbol: Horizontal line]	Under ground water level
[Symbol: Hatched]	Mainly quartzose sandstone, Sandstone with shale layer
[Symbol: Shaded]	Mainly shale with silty shale and sandy shale
[Symbol: Dotted]	Shaly sandstone
[Symbol: Circles]	Conglomerate
[Symbol: Triangles]	Talus deposits ; Boulder and clayey sand
[Symbol: Dots with diagonal line]	River bed deposits ; gravel and sand
[Symbol: Dashed]	Fractured zone
[Symbol: Box C.w.]	C.w. Completely weathered zone
[Symbol: Box H.w.]	H.w. Highly weathered zone
[Symbol: Box M.w.]	M.w. Moderately weathered zone
[Symbol: Box S.w.]	S.w. Slightly weathered zone
[Symbol: Box F.]	F. Fresh zone

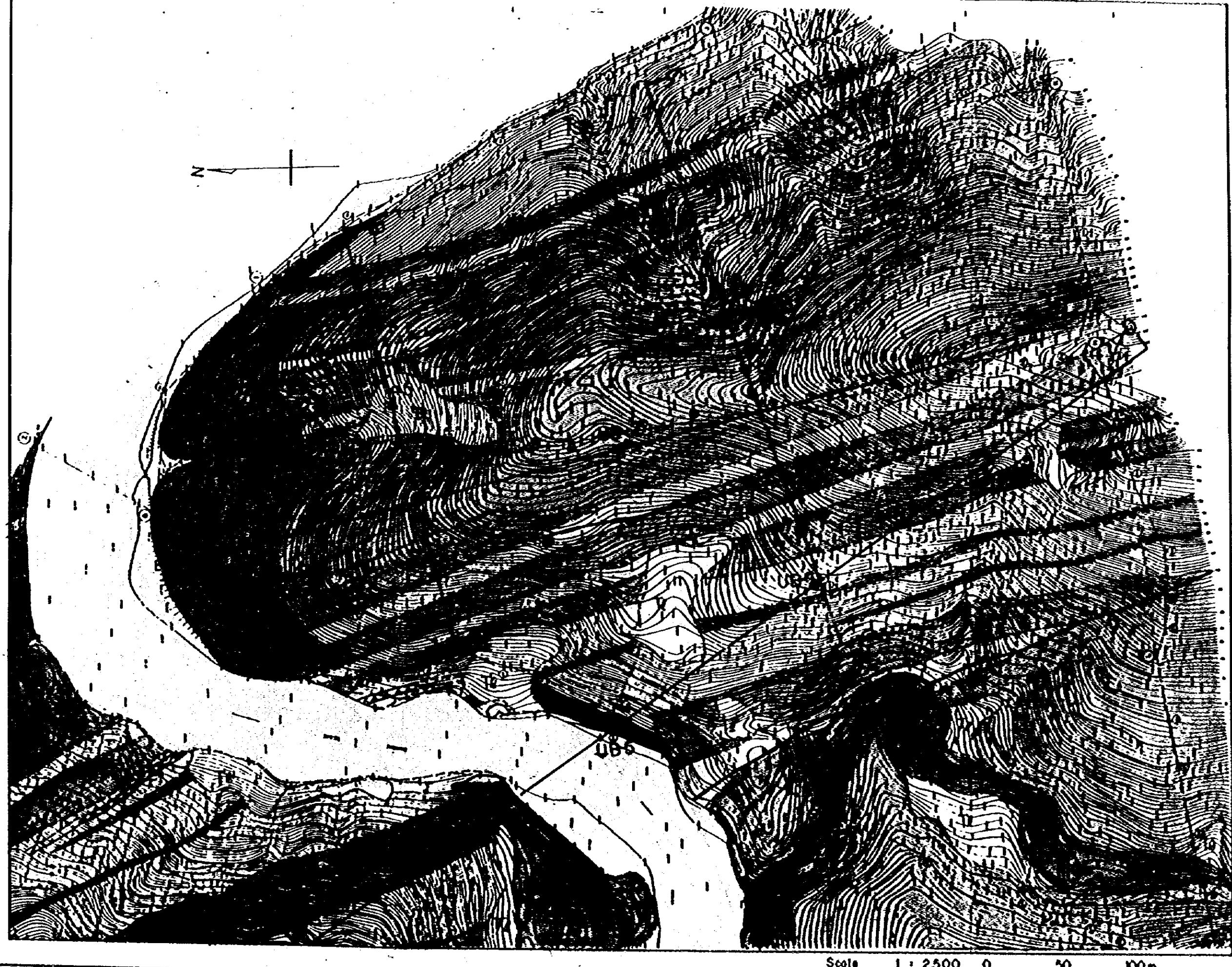
LEGEND

UD-4
Hole No, Carried out in 1982

- [Symbol: Dotted pattern] Mainly quartzose sandstone, Sandstone with shale layer
- [Symbol: Shaded box] Shale
- [Symbol: Hatched box] Silty shale
- [Symbol: Cross-hatched box] Shaly sandstone
- [Symbol: Vertical lines] Sandy shale
- [Symbol: Alternating patterns] Alternation of sandstone and shale
- [Symbol: Circles] Conglomerate
- [Symbol: Asterisks] Boulder, breccia and clayey sand
- [Symbol: Diagonal lines] Fractured zone with clay. [Symbol: Dots] Crackly zone
- [Symbol: Horizontal line] Under ground water level

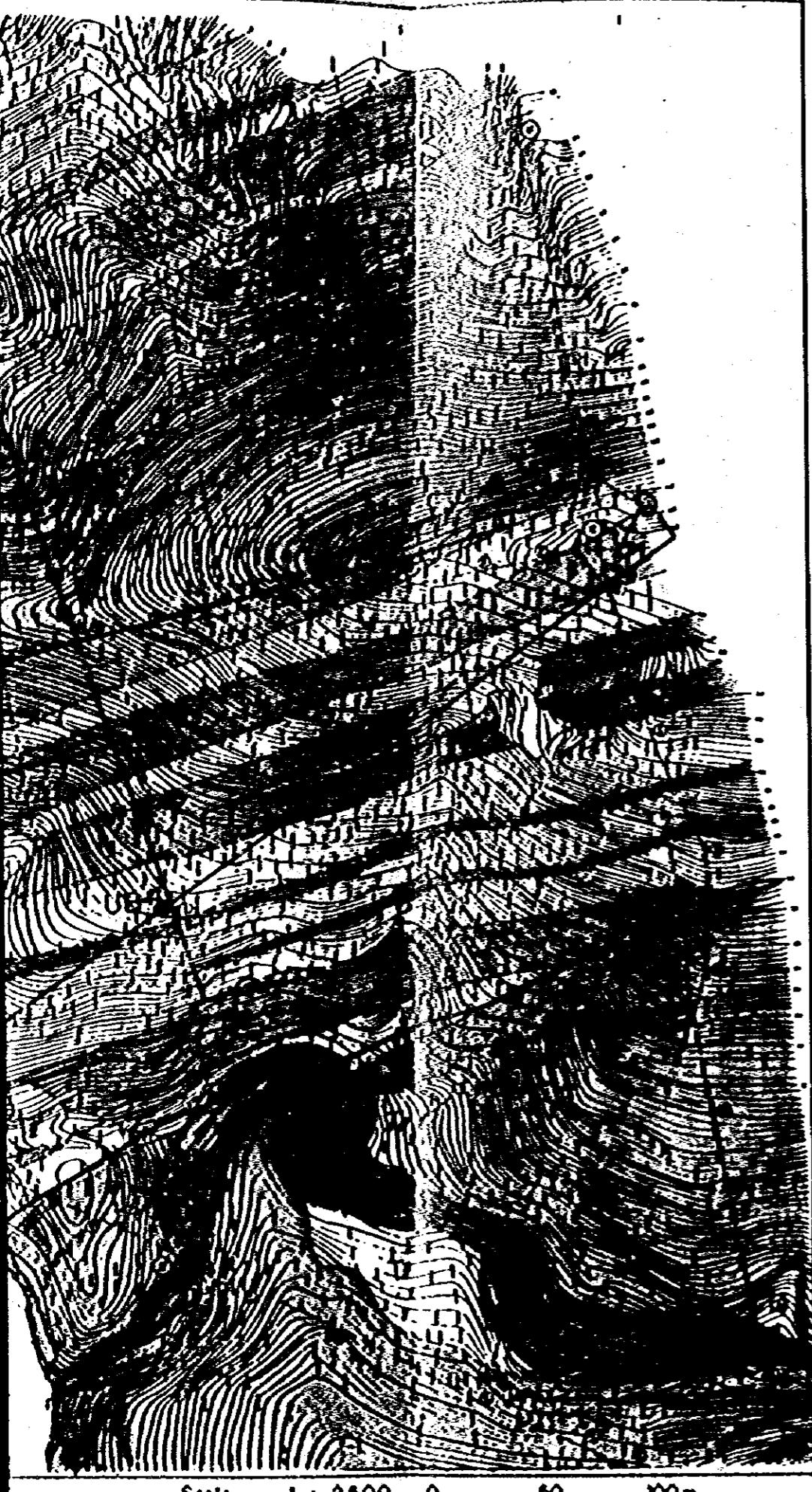
- | | |
|-----------------------------|--|
| [Symbol: Dotted pattern] | Mainly quartzose sandstone, Sandstone with shale layer |
| [Symbol: Shaded box] | Mainly shale with silty shale and sandy shale |
| [Symbol: Cross-hatched box] | Shaly sandstone |
| [Symbol: Circles] | Conglomerate |
| [Symbol: Asterisks] | Talus deposits ; Boulder and clayey sand |
| [Symbol: Dots] | River bed deposits ; gravel and sand |
| [Symbol: Diagonal lines] | Fractured zone |
| [Symbol: Horizontal line] | |
| [Symbol: C.w.] | Completely weathered zone |
| [Symbol: H.w.] | Highly weathered zone |
| [Symbol: M.w.] | Moderately weathered zone |
| [Symbol: S.w.] | Slightly weathered zone |
| [Symbol: F.] | Fresh zone |





Scale 1 : 2500 0 50 100m

Fig.4.5 GEOLOGICAL MAP OF UPPER TEKAI BORROW AREA (SITE.A)



LEGEND

GEOLOGICAL AGE	COLOR	FORMATION	NAME OF STRATUM
CENOZOIC	T _E		River Bed Deposits
			Talus Deposits
			Terrace Deposits
MESOZOIC	L _{SH}	Terrmus Redbeds	Reddish, Purplish-red shale
	M _{SH}	Mangking Sandstone	Stratum of Predominantly Sandstone
			Stratum of Predominantly Shale

- — — — — Fault
- × — — Fractured zone
- Landslide concavity
- Drilling point and hole number
- Test pile point and pile number
- — — — Seismic prospecting line
- A — — — — A Geological profile line



Scale 1 : 2,500



Fig 4.6 GEOLOGICAL MAP OF UPPER TEKAI DAM SITE

LEGEND

GEOLOGICAL AGE	COLOR	FORMATION	NAME OF STRATUM
CENOZOIC	QUATERNARY		River Bed Deposits.
			Talus Deposits.
			Terrace Deposits.
MESOZOIC	UPPER JURASSIC	Mongking Sandstone	Stratum of Predominantly Sandstone.
			Stratum of Predominantly Shale.
			Alternation of Sandstone and Shale

- Syncline
- Anticline
- Fractured zone
- Landslide concavity
- Drilling point and hole number
- Seismic prospecting line.
- A — A Geological profile line
- A-A Dam axis
- B-B Spillway
- C-C Penstock and Power station
- D-D Diversion tunnel
- E-E { Coffer dam
- F-F { Alternative Spillway

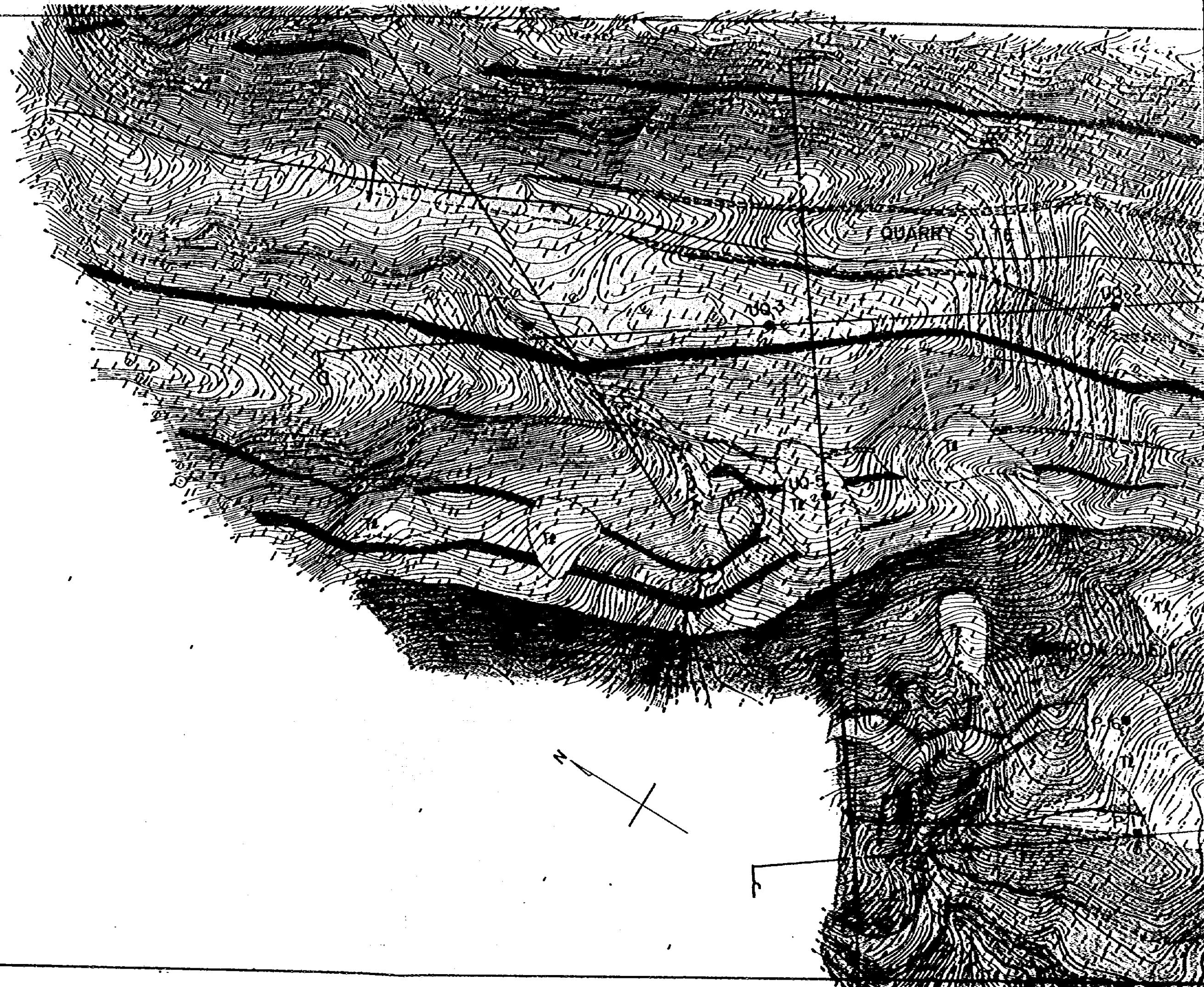
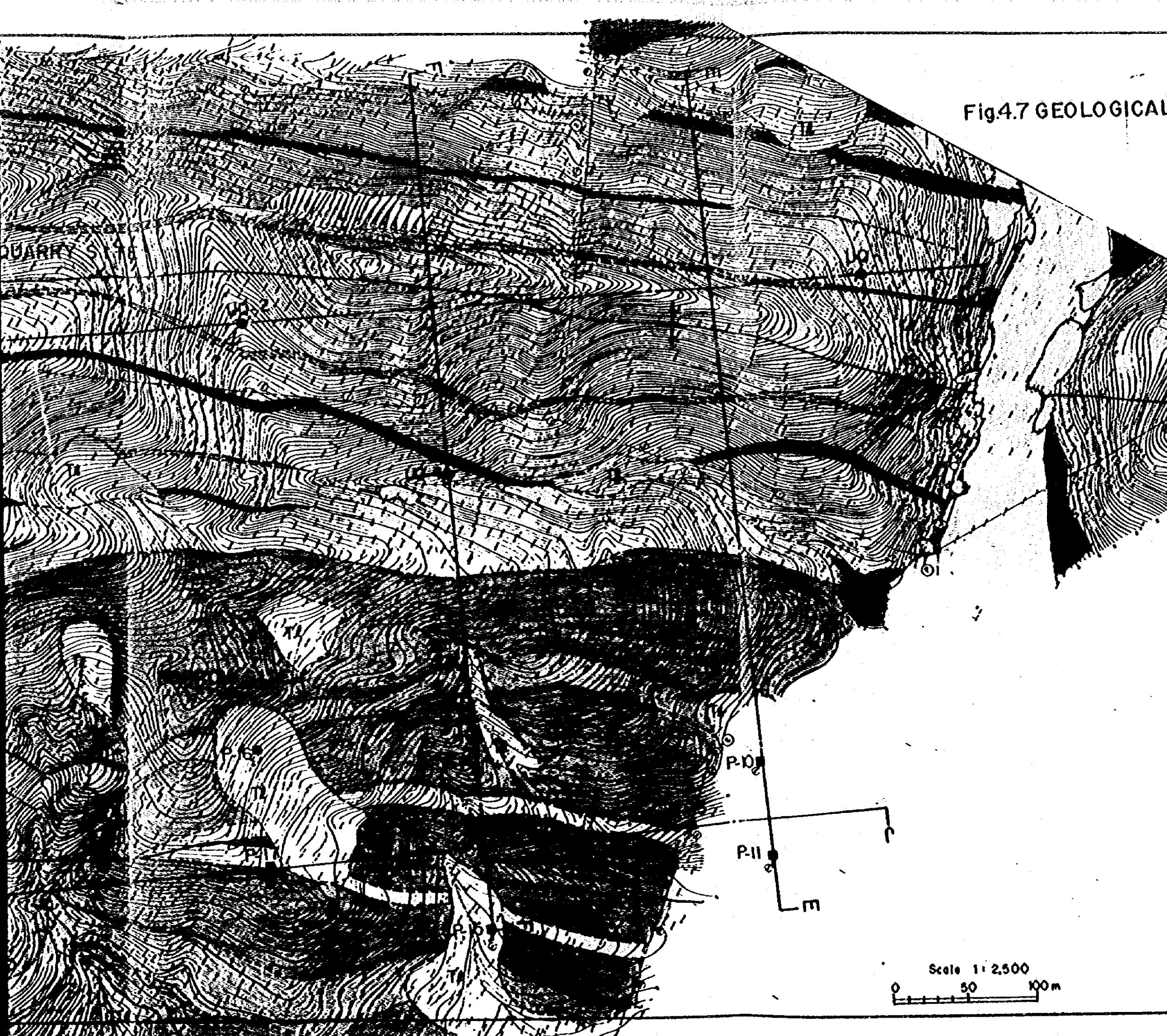


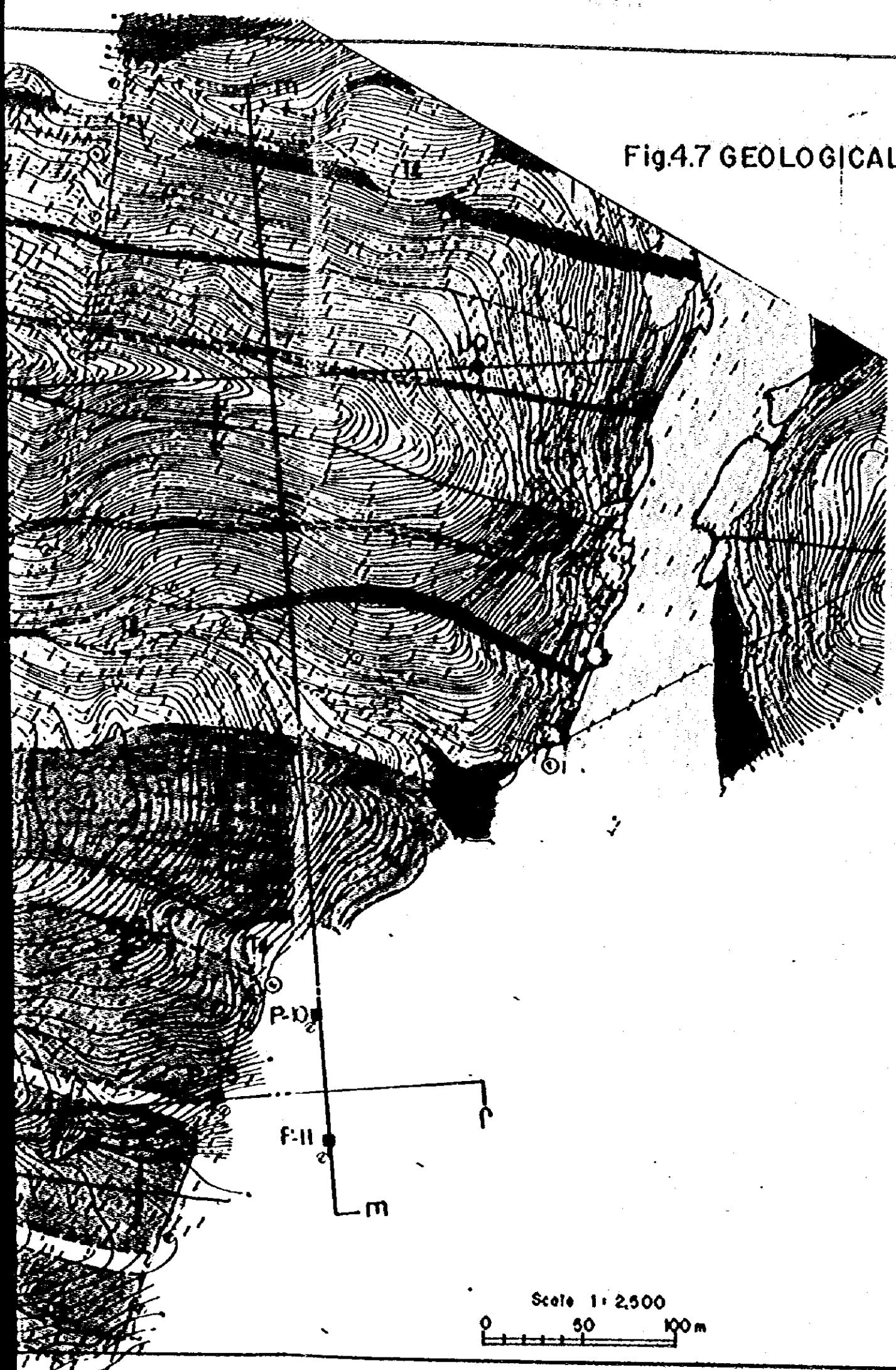
Fig.4.7 GEOLOGICAL MAP OF UPPER TEKAI QUARRY AND SURROUNDING AREA



GEOLOGICAL AGE	COLOR	FORMATION	N
QUATERNARY	TQ		Riy
MESOZOIC	Upper Jurassic	Mangking Sandstone	Tol Ter Sirc Str Cor All

- Anticline
- Syncline
- Landslide concavity
- Drilling point and hole
- Seismic prospecting line
- A — Geological profile line

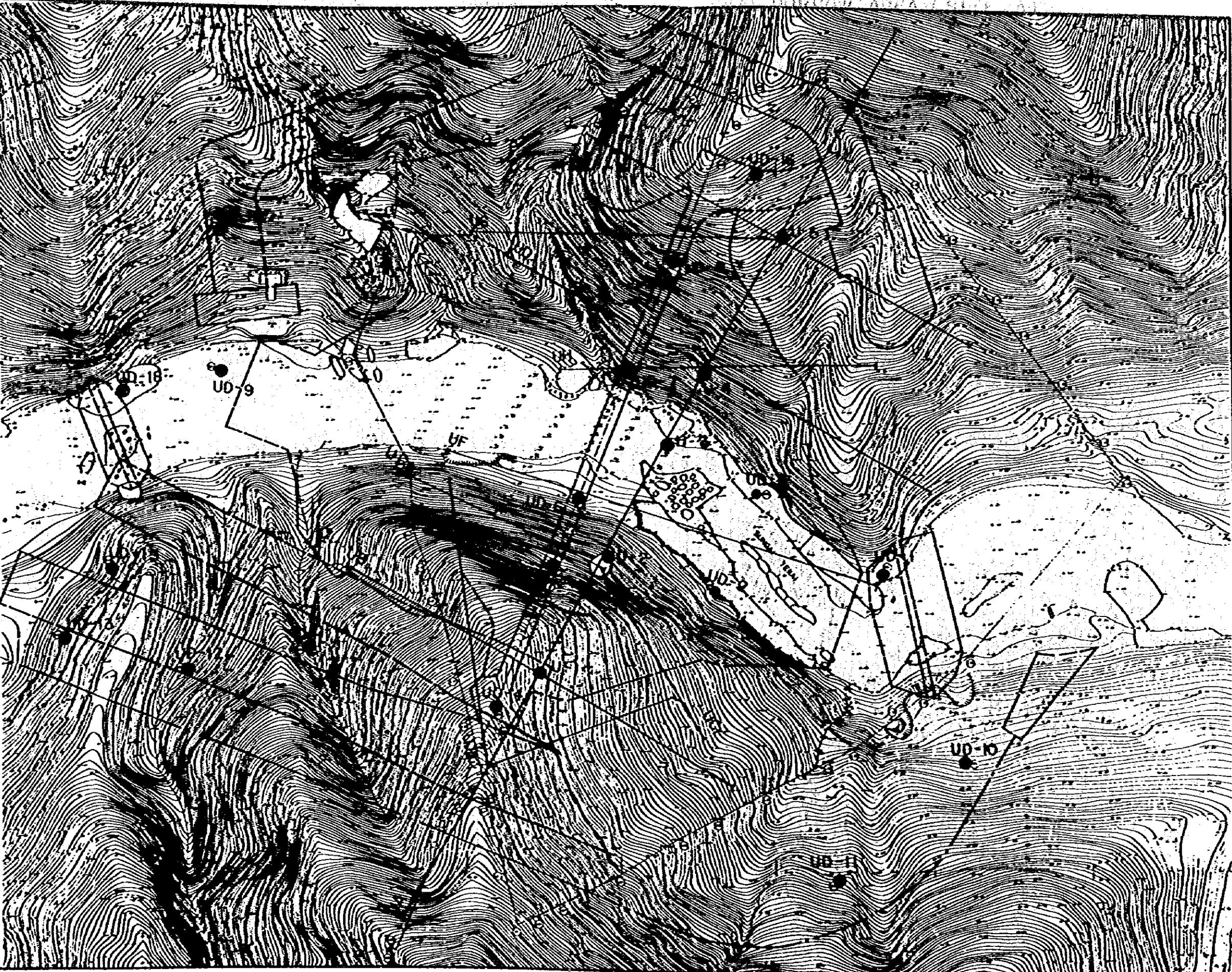
Fig.4.7 GEOLOGICAL MAP OF UPPER TEKAI QUARRY AND BORROW AREA (SITE.B)



GEOLOGICAL AGE	COLOR	FORMATION	NAME OF STRATUM
CENOZOIC	T ₂		River Bed Deposits
			Talus Deposits
			Terrace Deposits
MESOZOIC		Mangking Sandstone	Stratum of Predominantly Sandstone.
			Stratum of Predominately Shale
			Conglomerate
			Alternation of Sandstone and Shale

- Anticline
- Syncline
- Landslide concavity
- Drilling point and hole number
- Seismic prospecting line
- A — A Geological profile line

Fig. 4.8 LOCATION MAP OF UPPER TEKAI DAM SITE

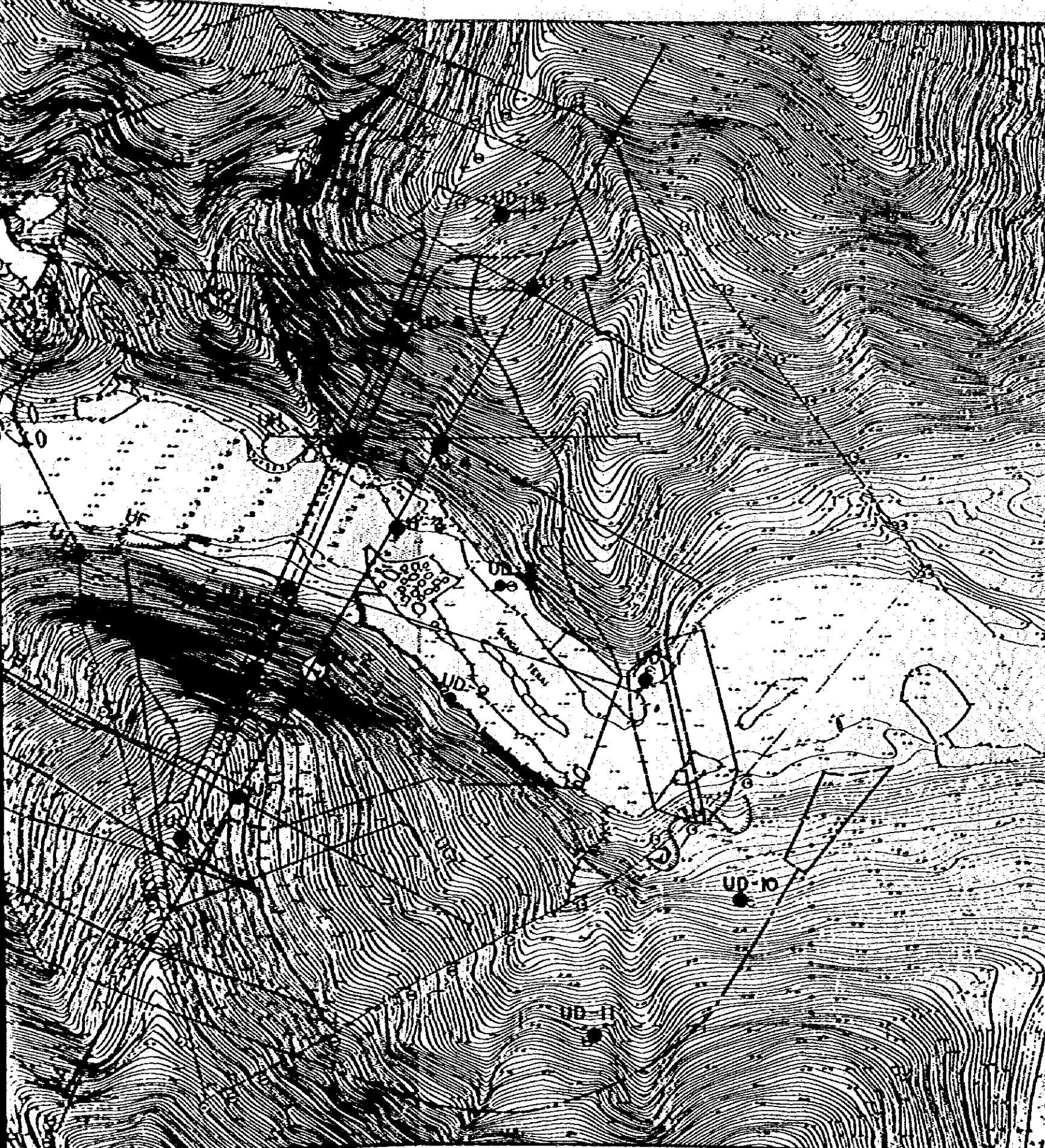


LEGEND

- UD-1~UD-18 Drilling point and Carried out in 19
- U-1~U-5 Drilling point and Carried out in 19
- UA~UJ2 Seismic prospecting Carried out in 19

Scale 1:2500
0 50 100m

4.8 LOCATION MAP OF UPPER TEKAI DAM SITE



LEGEND

● UD-1~UD-18

Drilling point and hole No.
Carried out in 1982

● U-1~U-5

Drilling point and hole No.
Carried out in 1981

— UA~UJ2

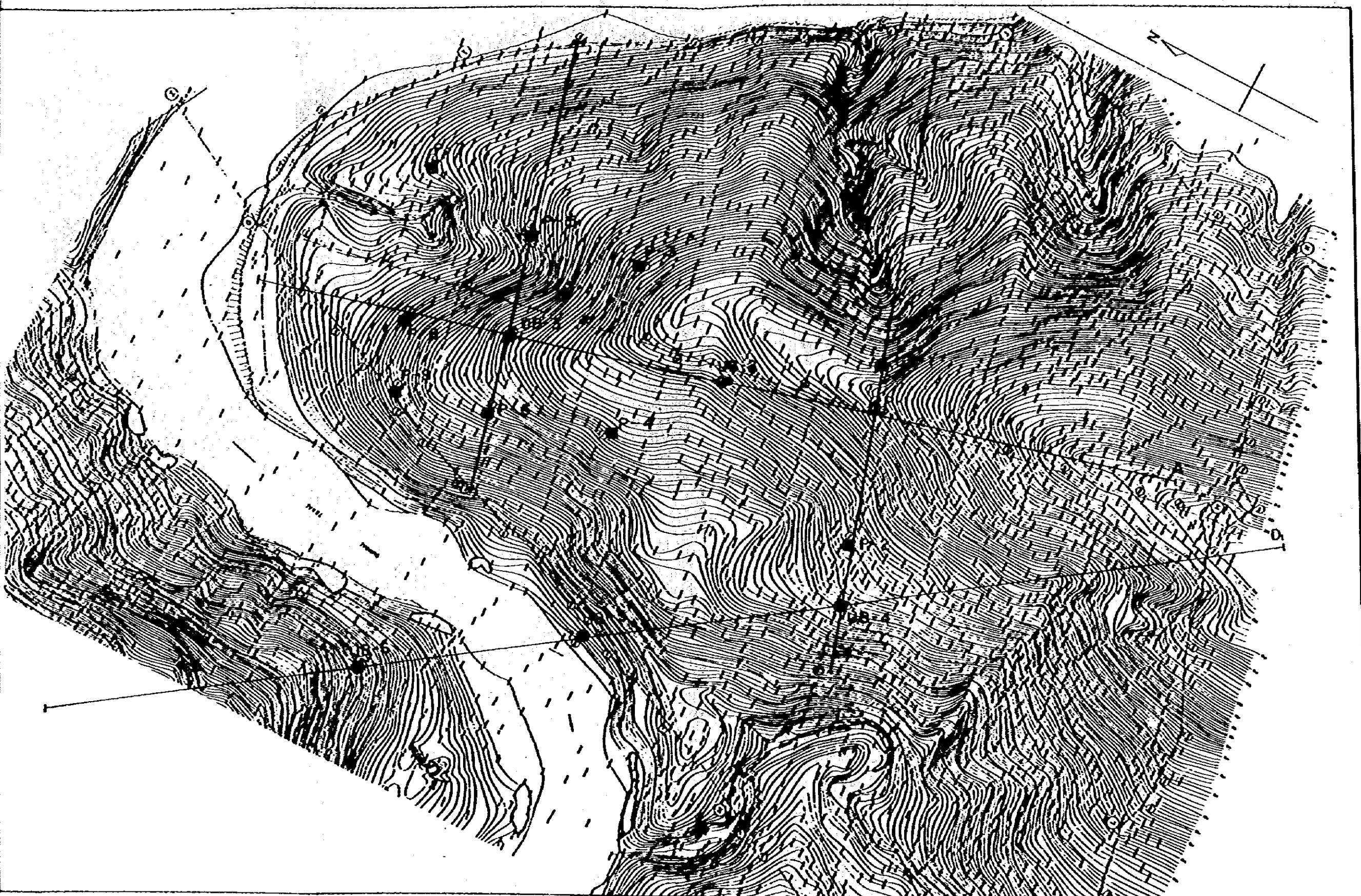
Seismic prospecting line
Carried out in 1981

Scale 1:2500

80

100m

Fig.4.9 LOCATION MAP OF UPPER TEKAI BORROW AREA (SITE A)



LEGEND

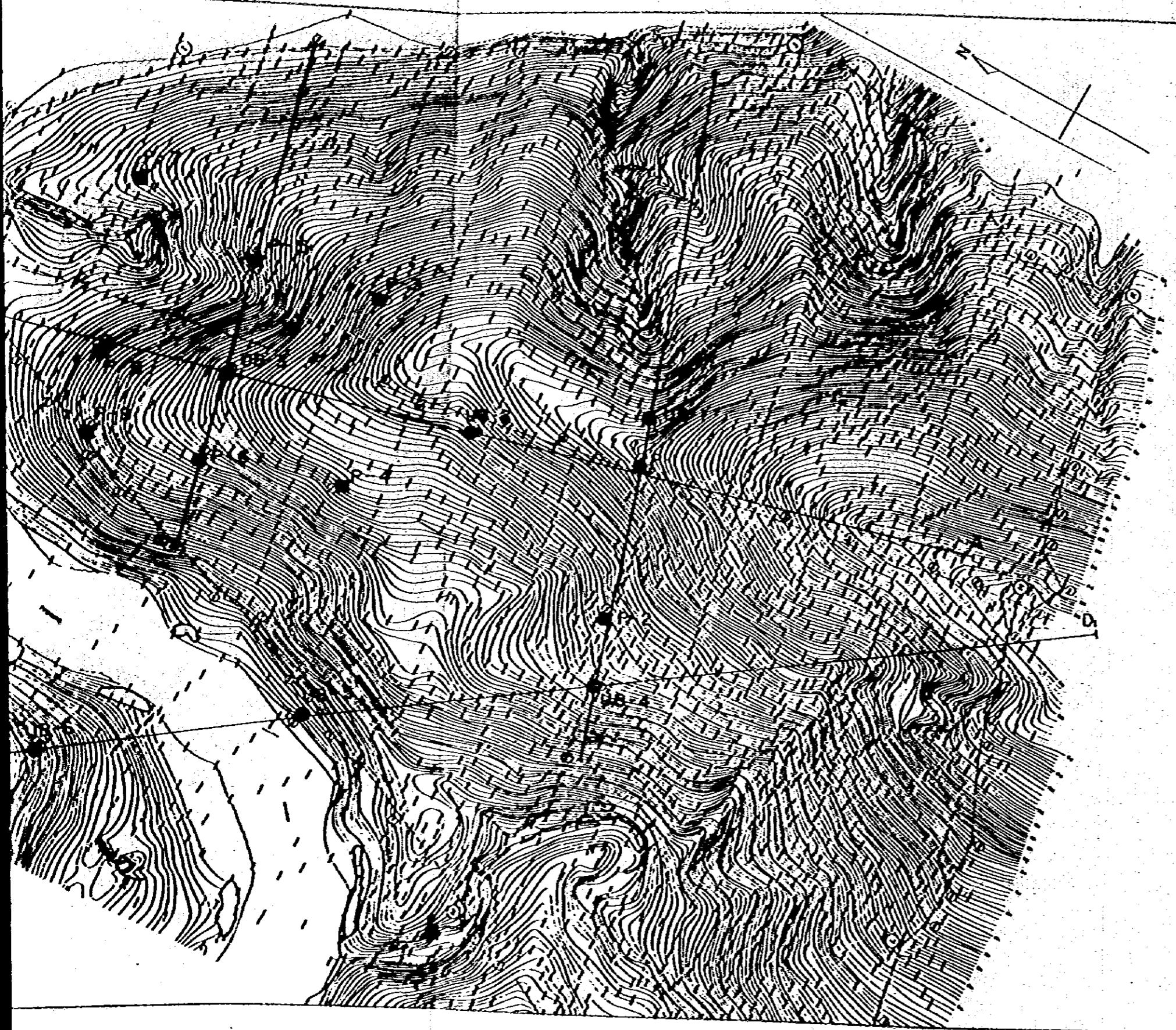
- UB-1~UB-6 Drilling Carried
- P-1~P-9 Test pit Carried
- A~D₁ Seismic Carried

Scale 1:2500

50

100m

Fig.4.9 LOCATION MAP OF UPPER TEKAI BORROW AREA (SITE A)



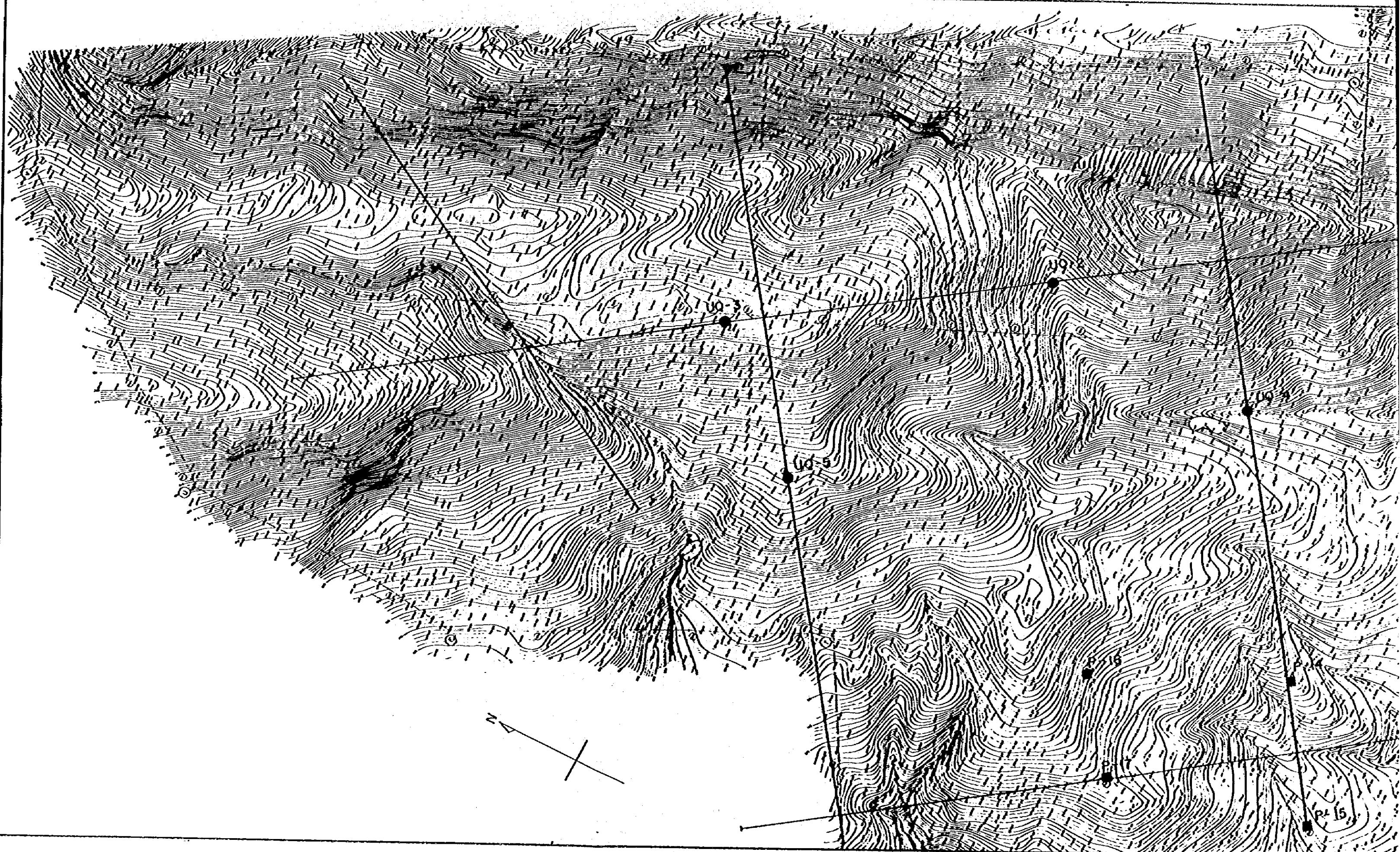
LEGEND

- UB-1~UB-6 Drilling point and hole No.
Carried out in 1982.
- P-1~P-9 Test pitting point and pit No.
Carried out in 1982
- A~D Seismic prospecting line
Carried out in 1982

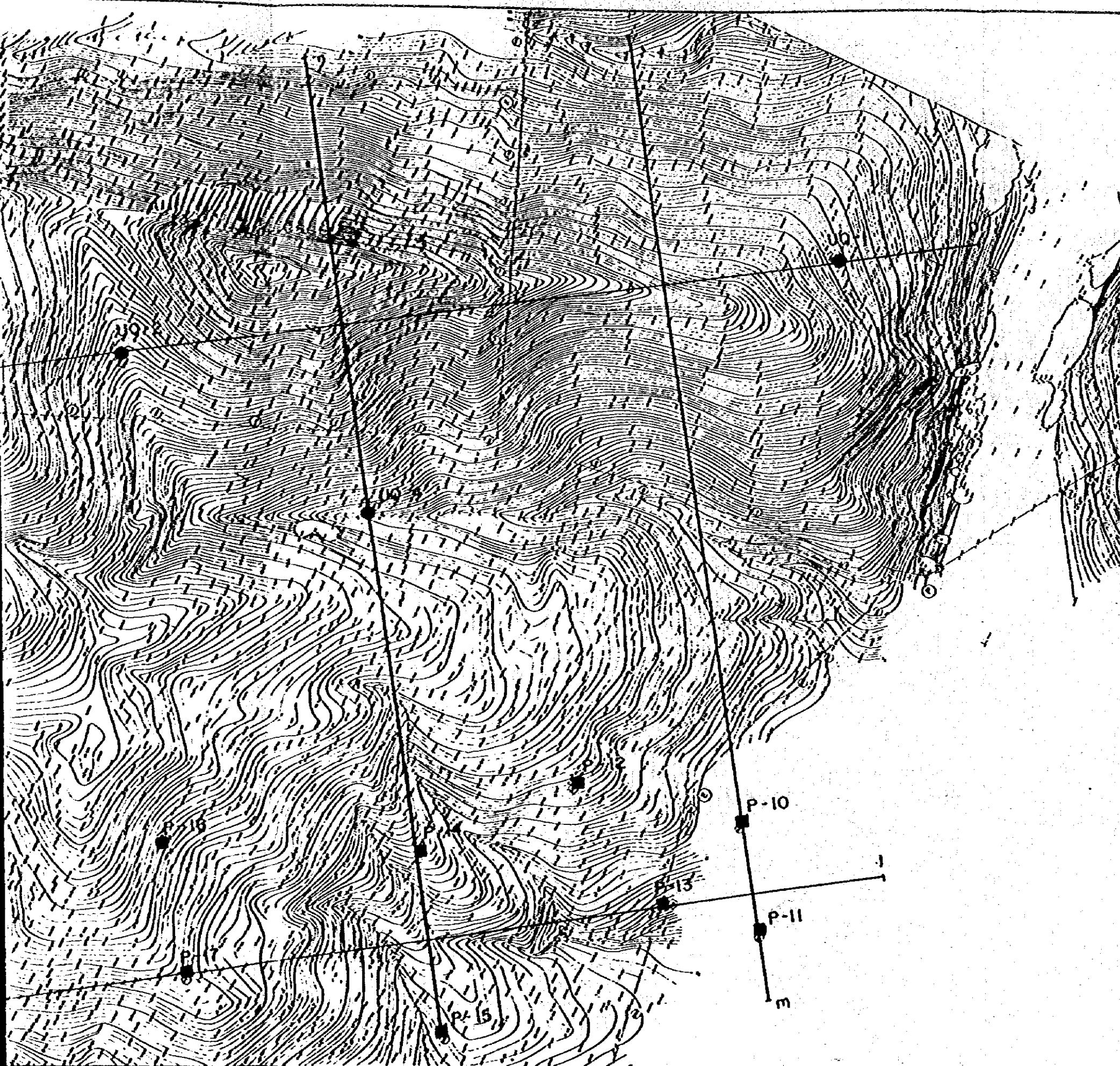
Scale 1: 2500

0 50 100m

Fig. 4.10 LOCATION MAP OF UPPER TEKAI QUARRY AREA AND BORROW AREA (SITE B)



REA AND BORROW AREA (SITE B)



LEGEND

- UQ-1~UQ-5 Drilling point and hole No.
Carried out in 1982
- P- 10~P-17 Test pitting point and pit No.
Carried out in 1982
- D-1 Seismic prospecting line
Carried out in 1982

Scale 1: 2500

0 50 100m