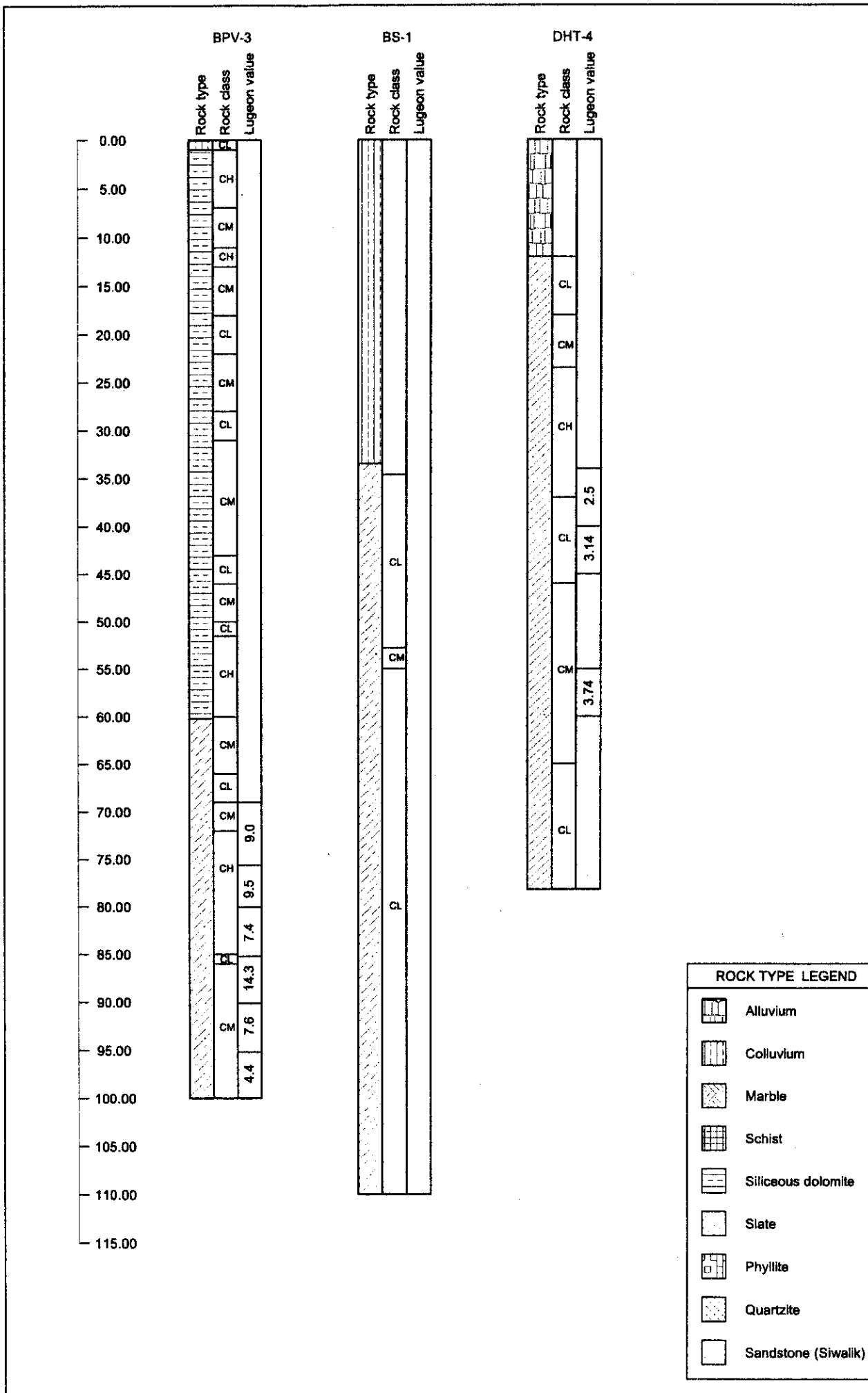


Figure B3.1.2 Simplified Drill Logs (2)

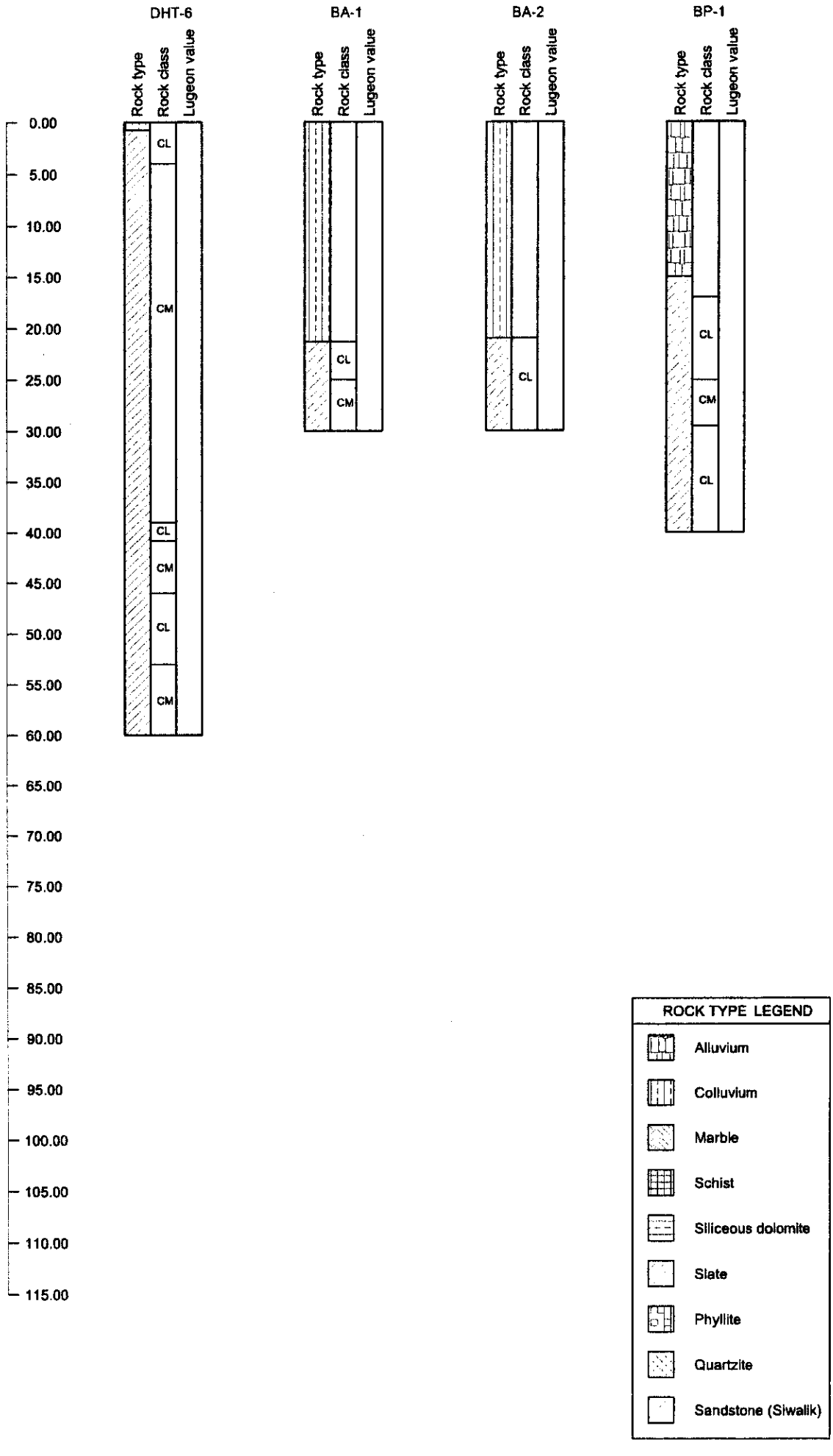


Figure B3.1.2 Simplified Drill Logs (3)

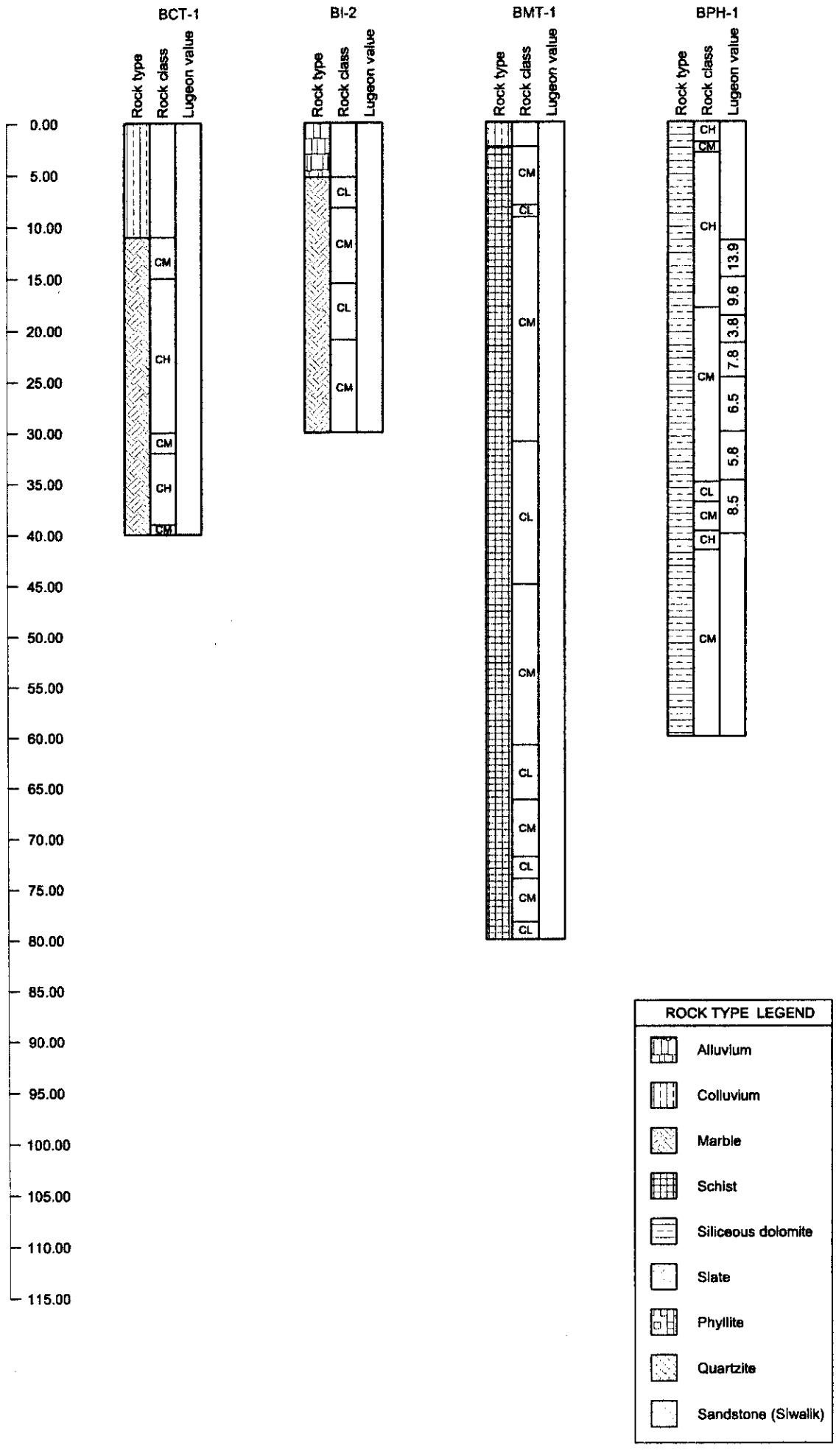


Figure B3.1.2 Simplified Drill Logs (4)

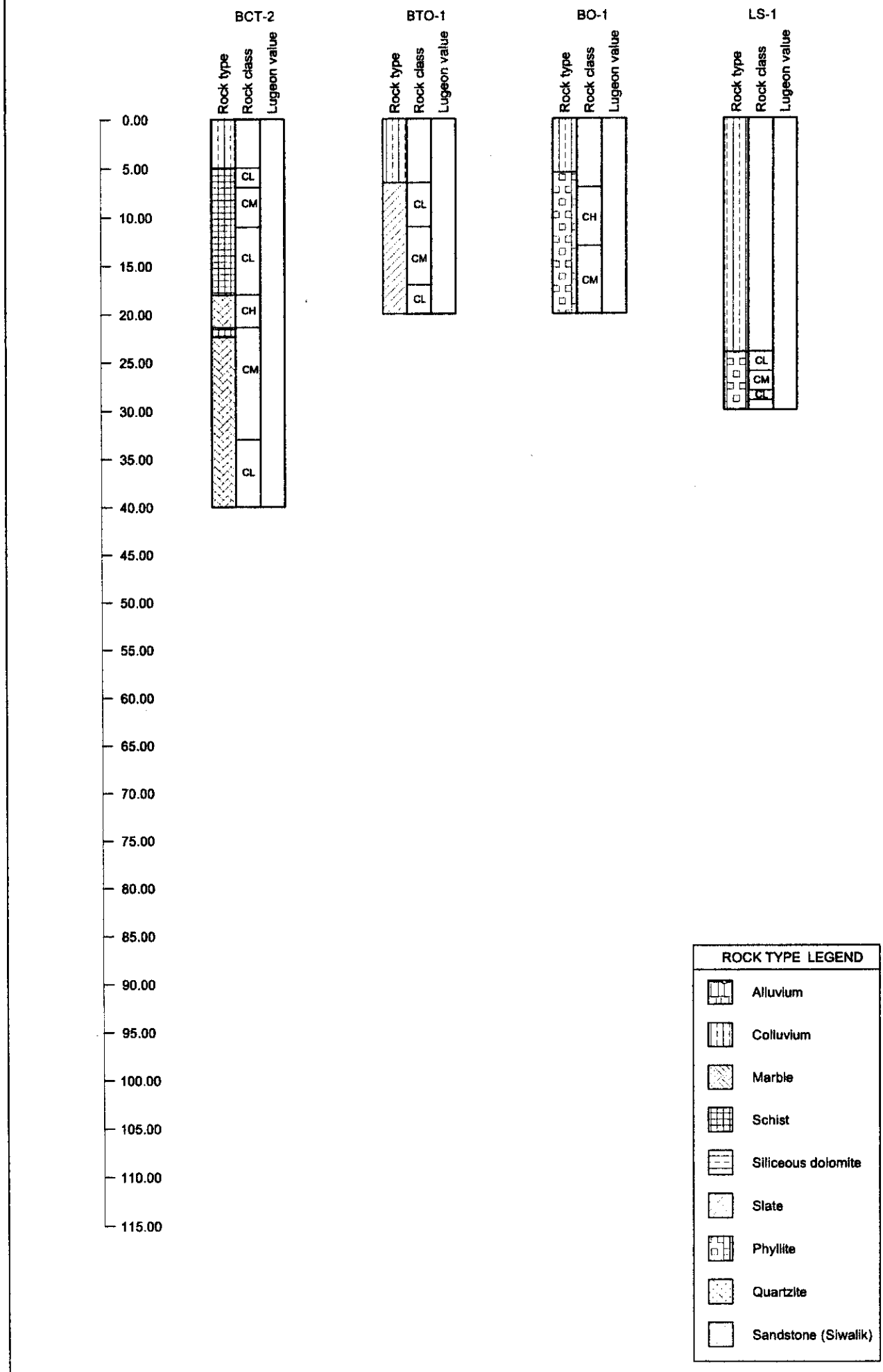


Figure B3.1.2 Simplified Drill Logs (5)

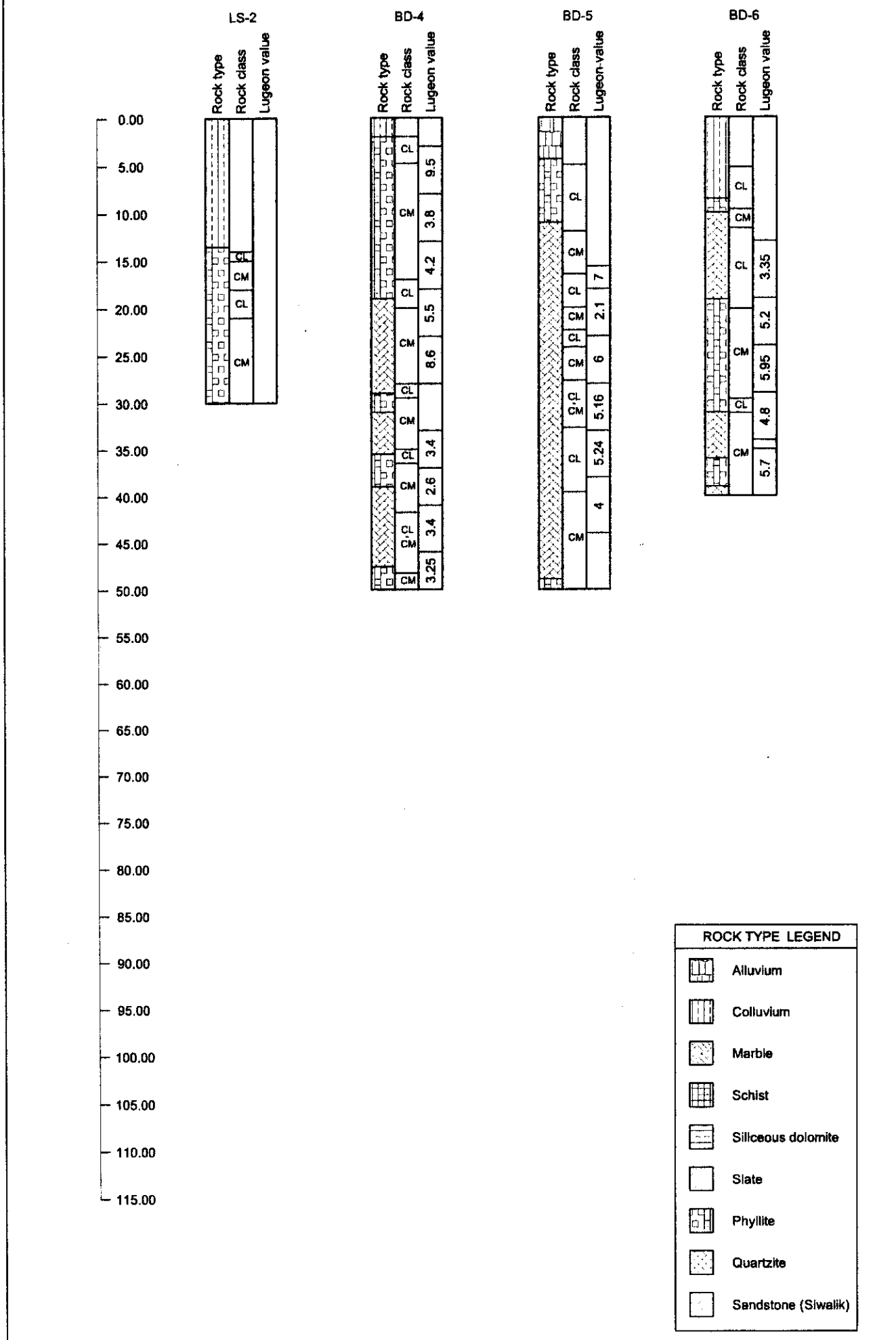


Figure B3.1.2 Simplified Drill Logs (6)

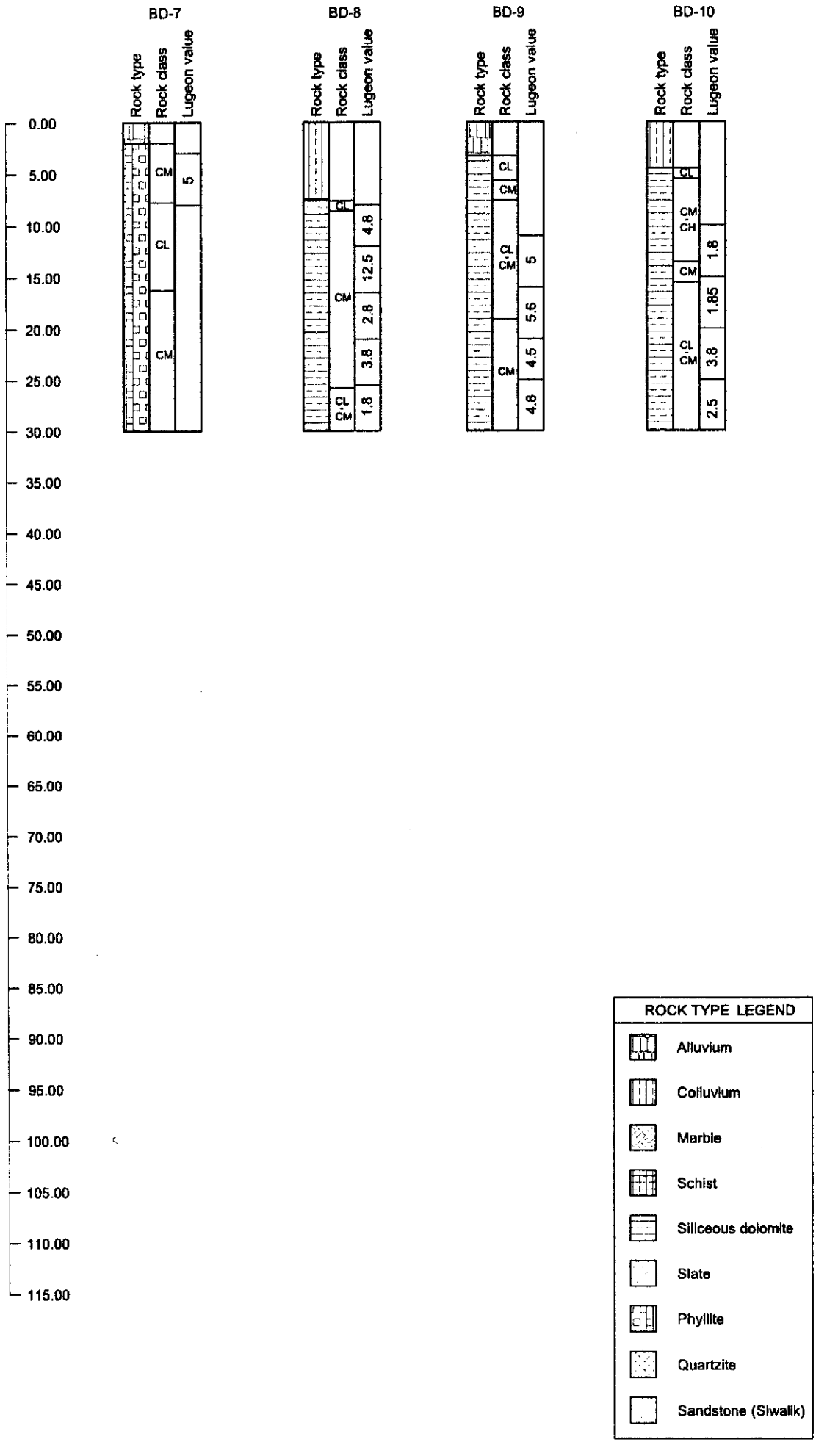


Figure B3.1.2 Simplified Drill Logs (7)

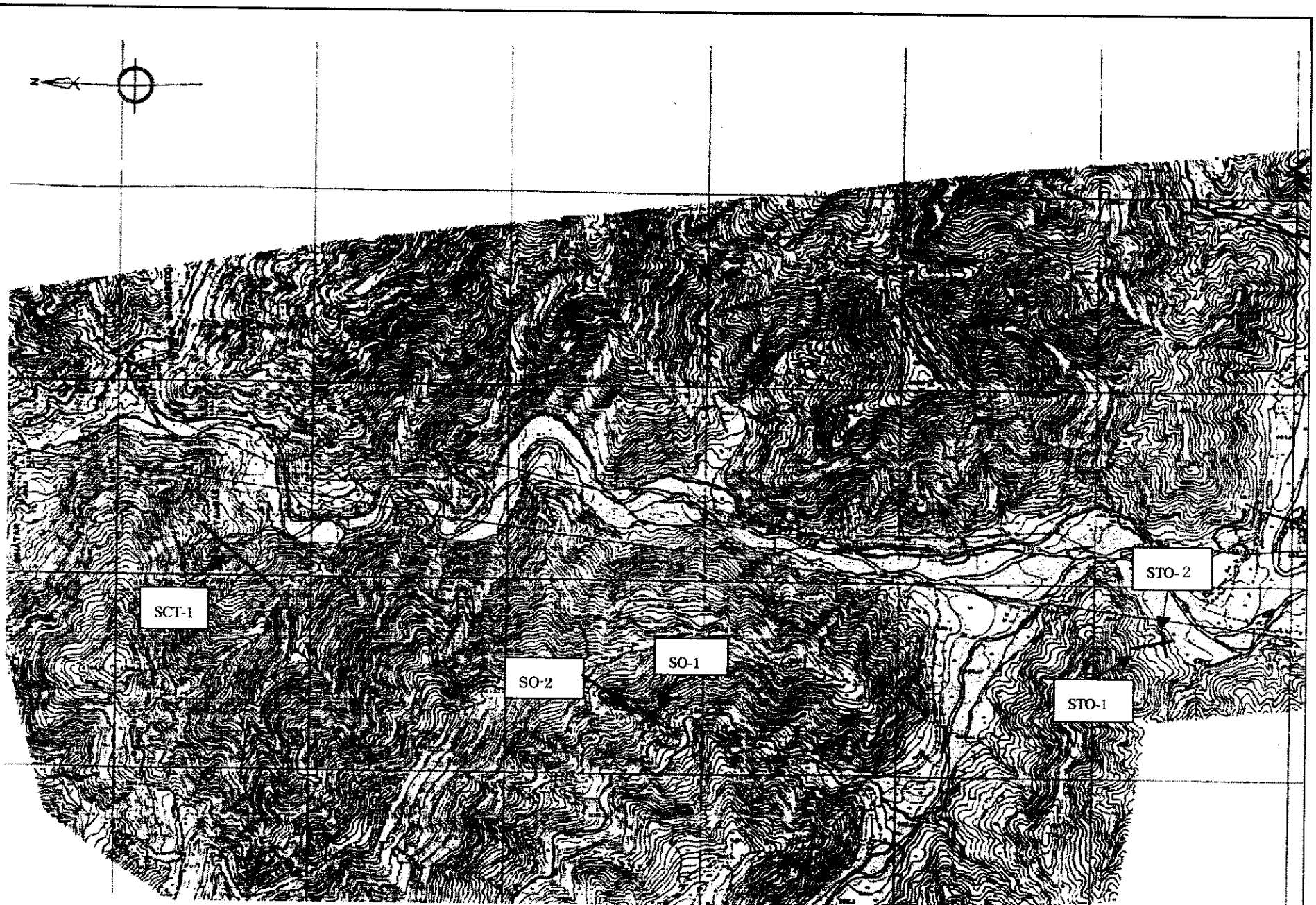
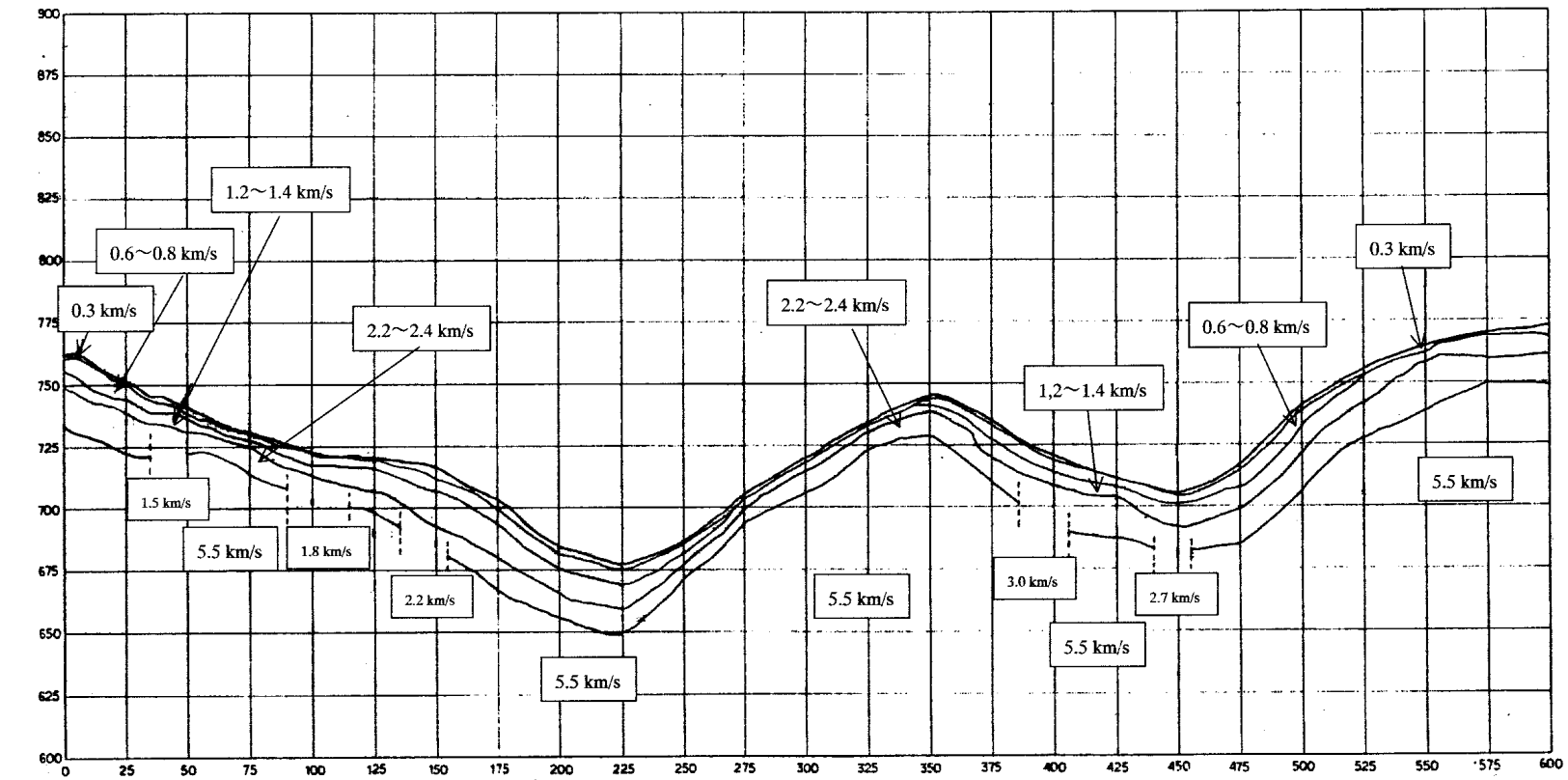


Figure B3.5.1 Alignment of Seismic Refraction Prospecting



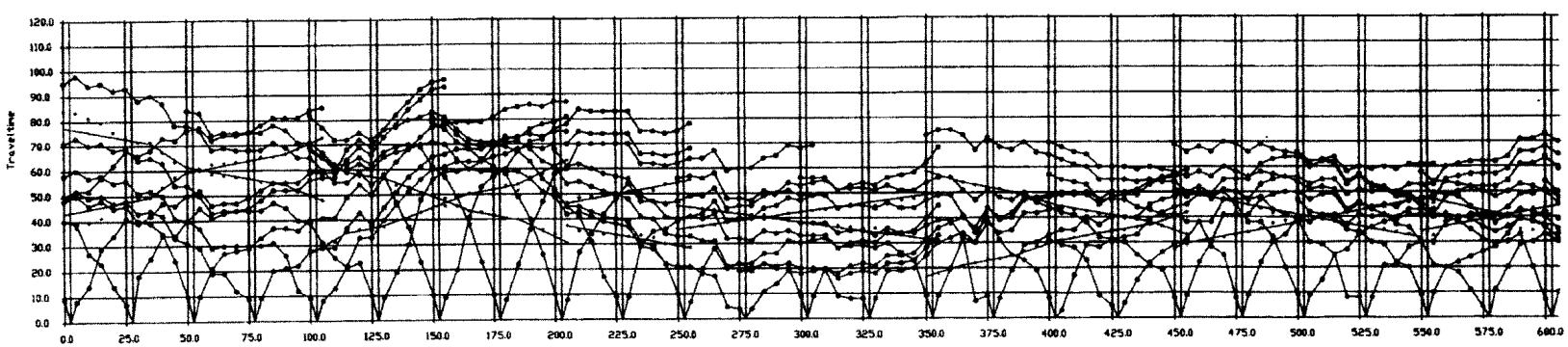
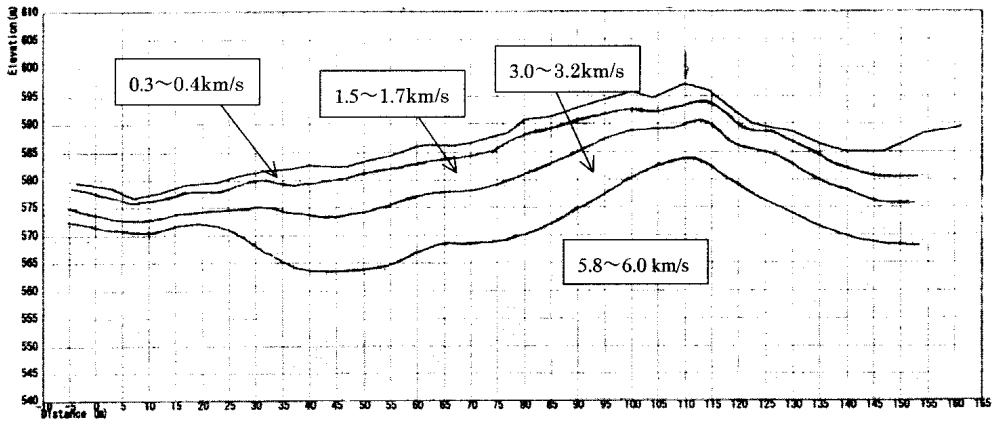
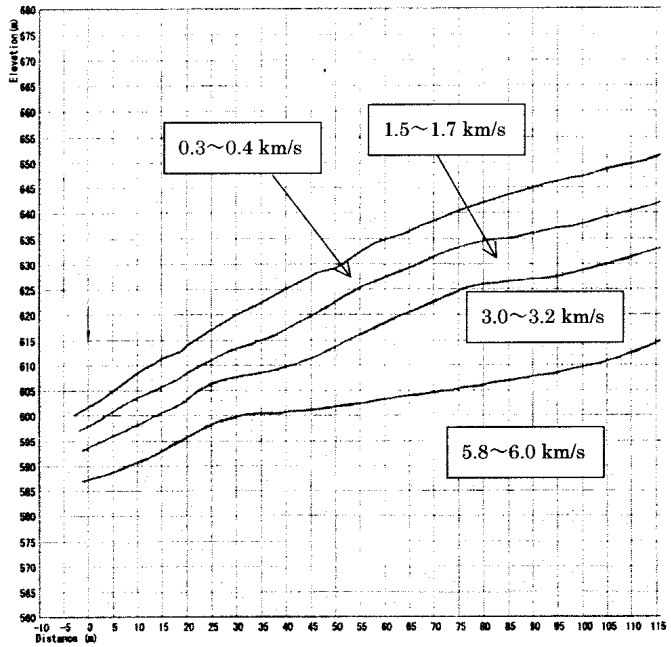
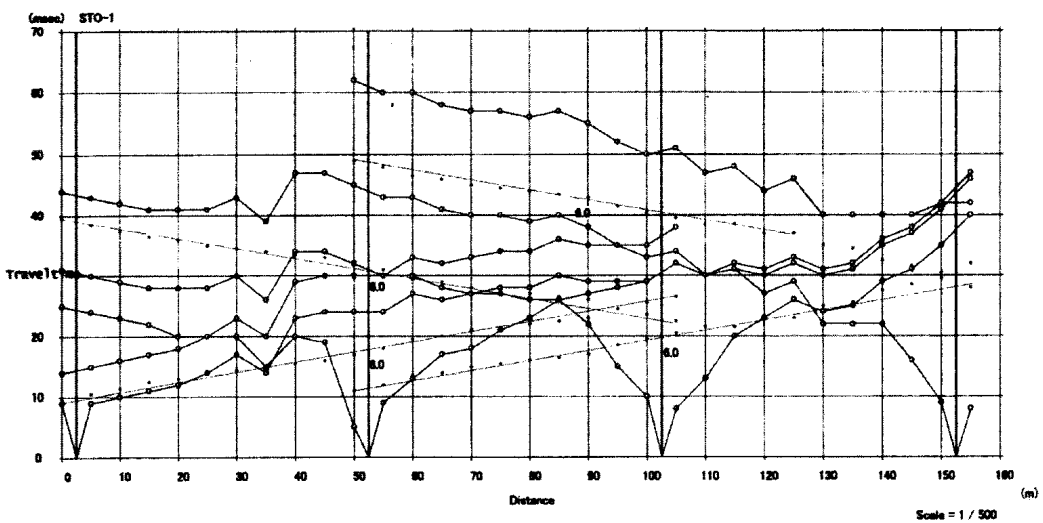


Figure B3.5.2 Results of Seismic Refraction Prospecting (SCT-1)

Line SO-1







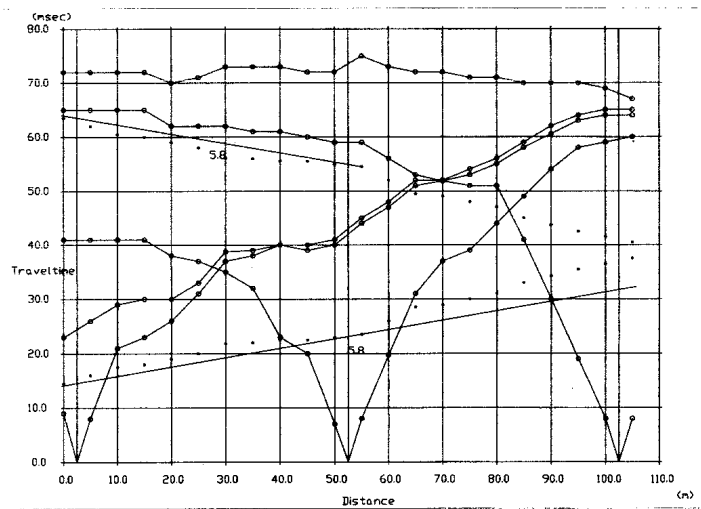


Figure B3.5.3 Results of Seismic Refraction Prospecting (SO-1, 2)

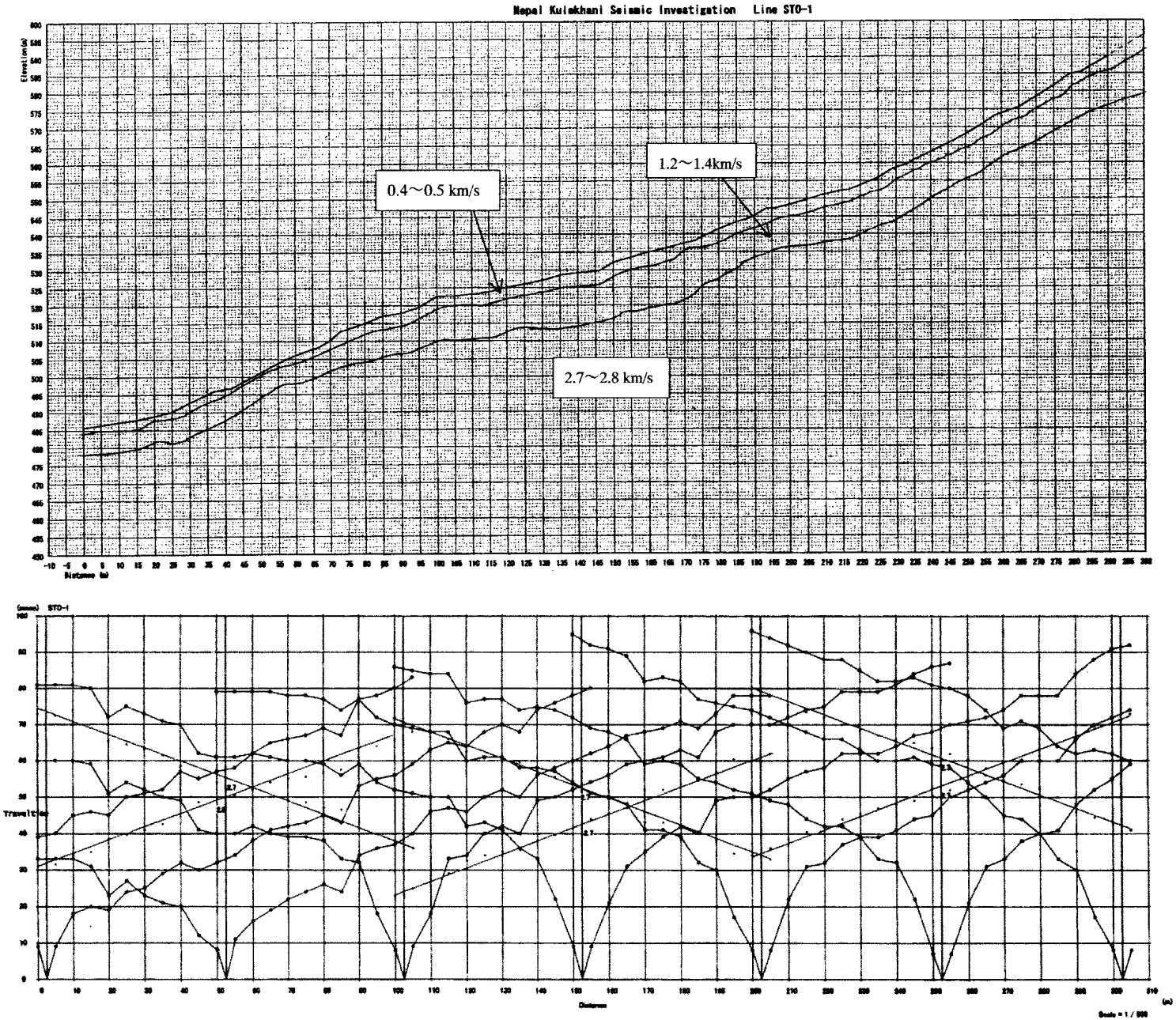
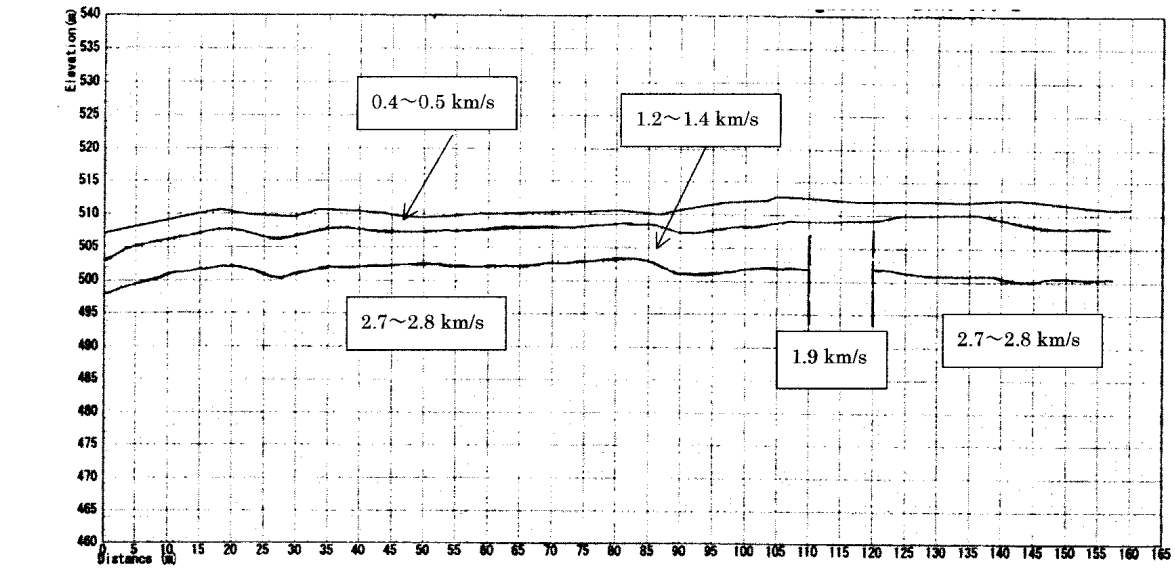


Figure B3.5.4 Results of Seismic Refraction Prospecting (STO-1)



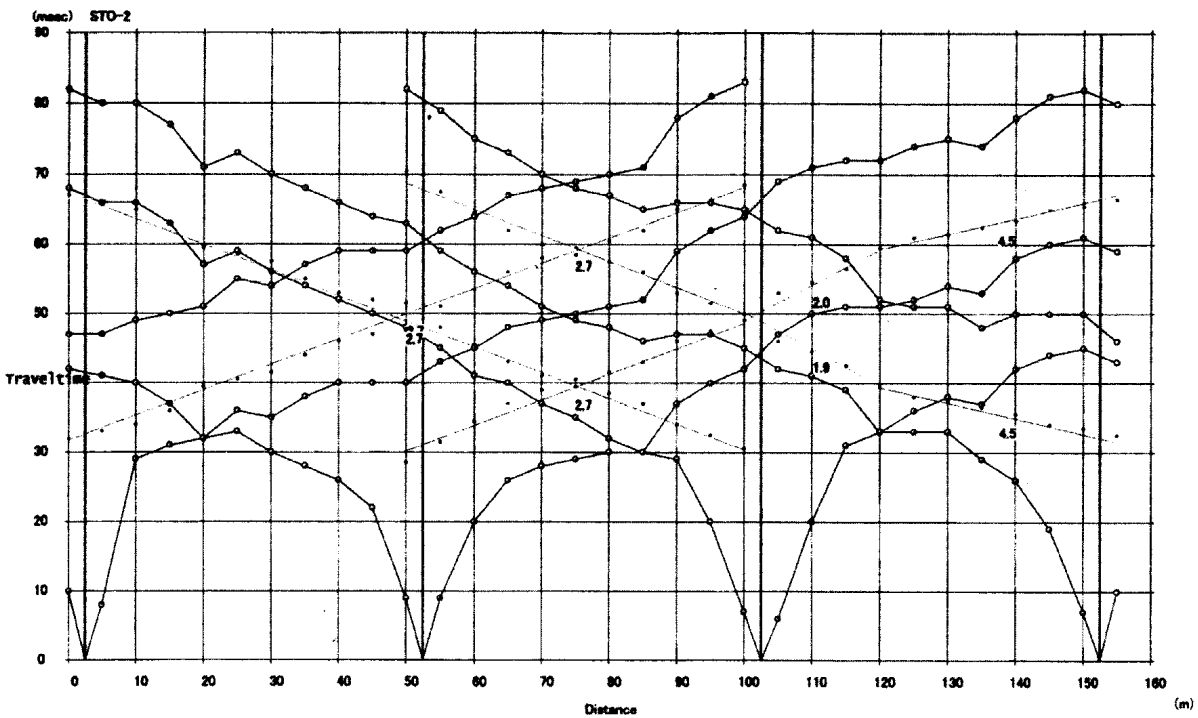
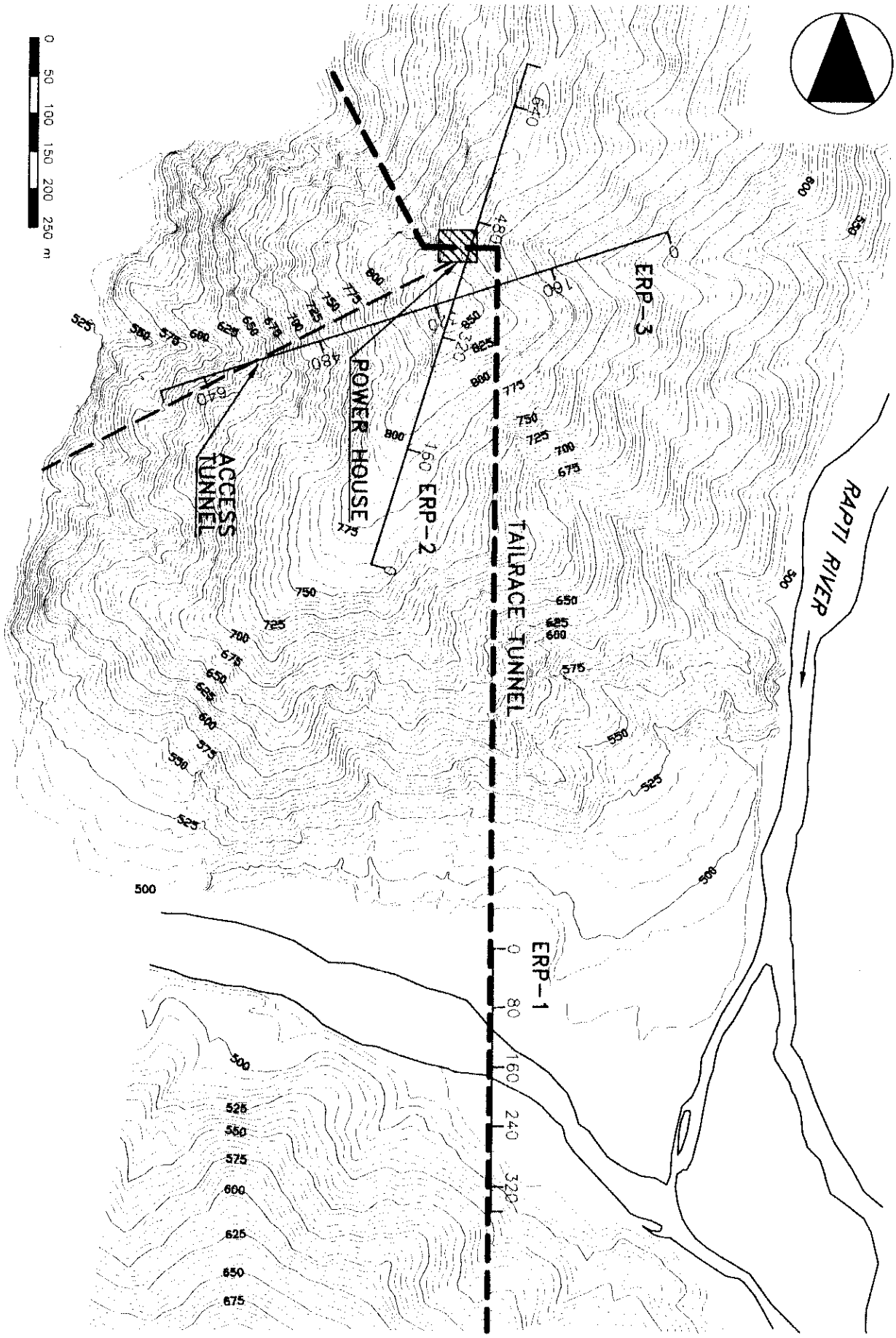
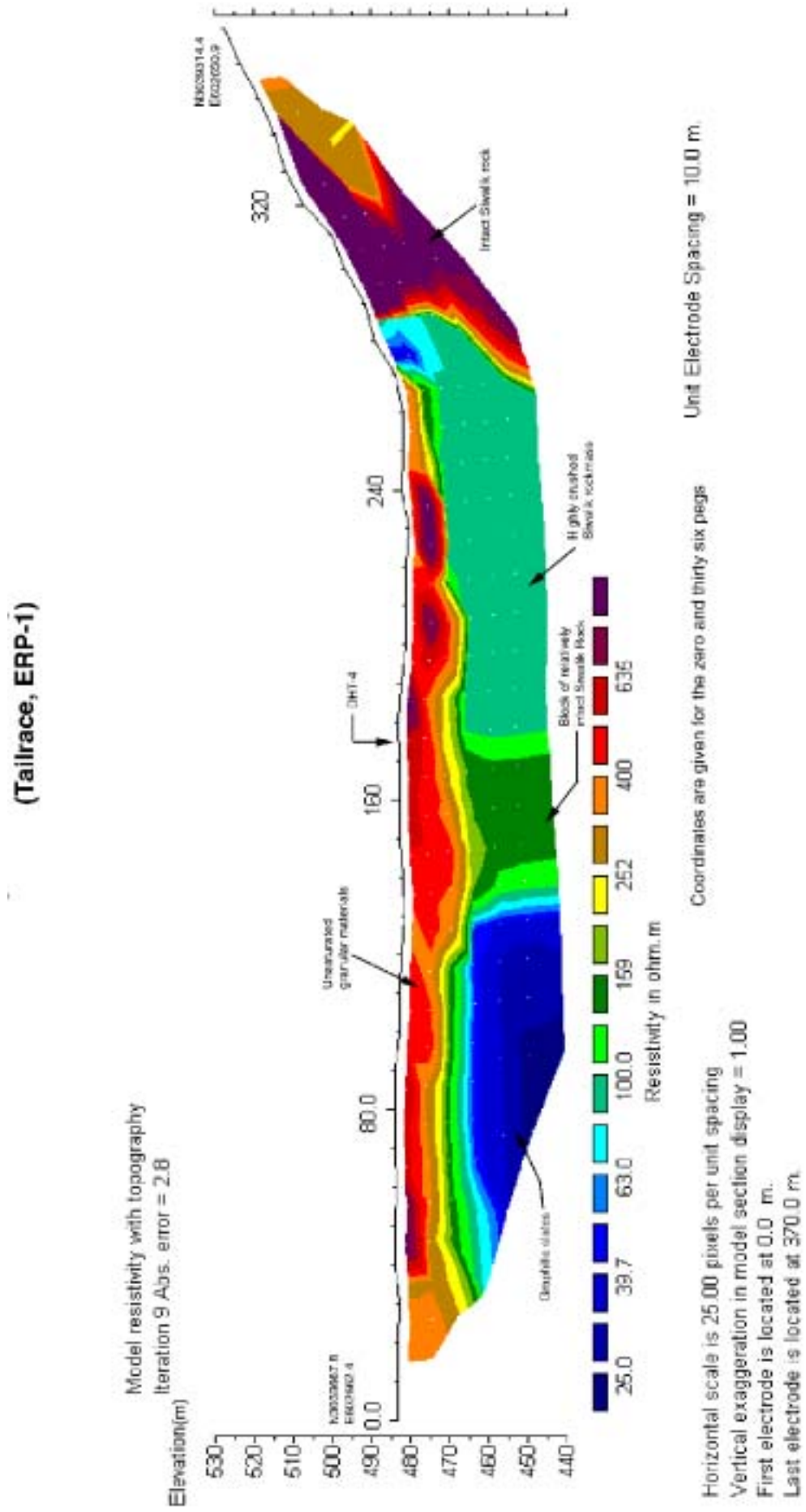


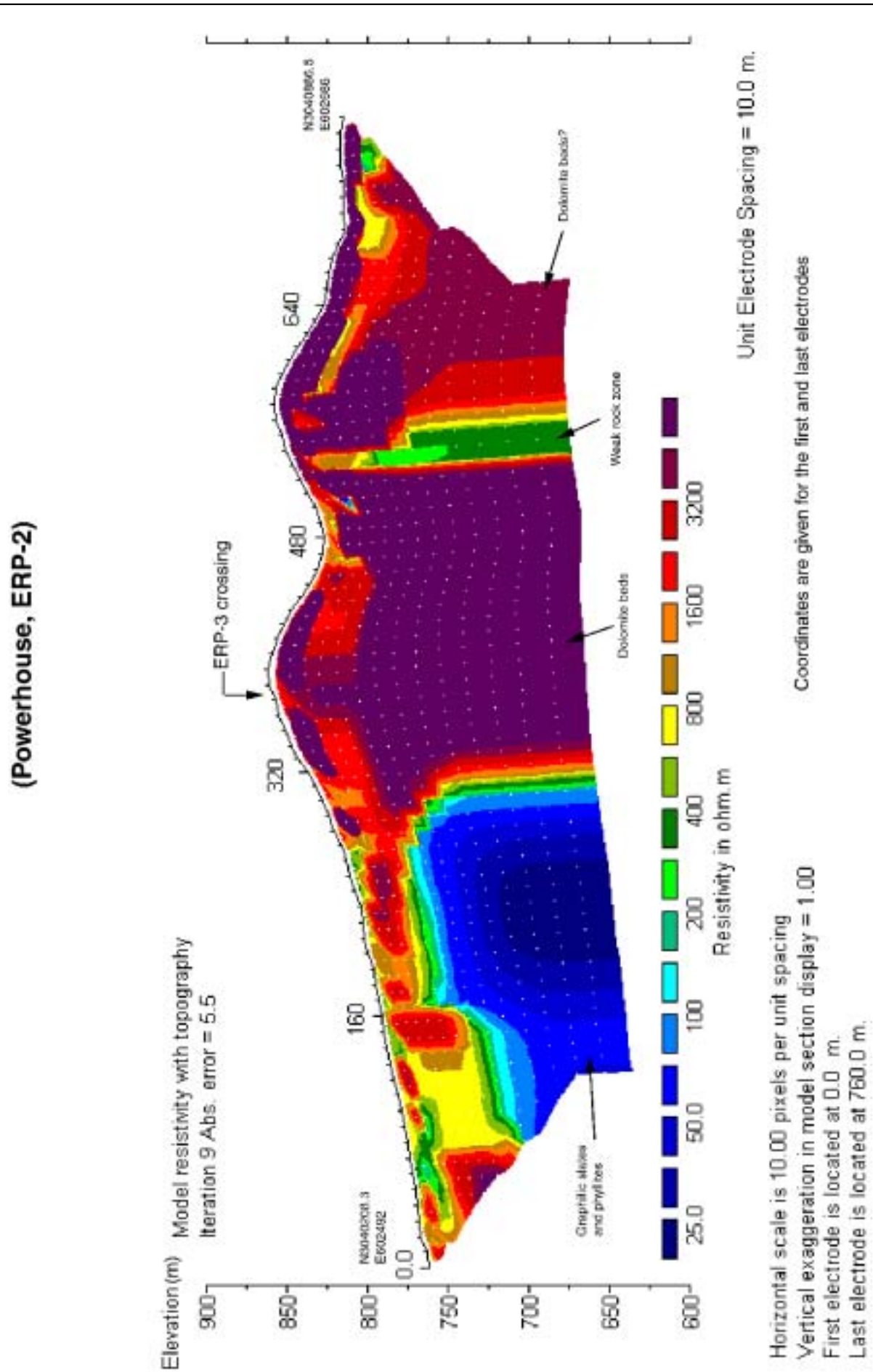
Figure B3.5.5 Results of Seismic Refraction Prospecting (STO-2)



THE UPGRADING FEASIBILITY STUDY ON THE DEVELOPMENT OF THE KULEKHANI III HYDROPOWER PROJECT IN THE KINGDOM OF NEPAL	Figure B3.6.1 Investigation Alignment of Electrical Resistivity Prospecting
JAPAN INTERNATIONAL COOPERATION AGENCY	



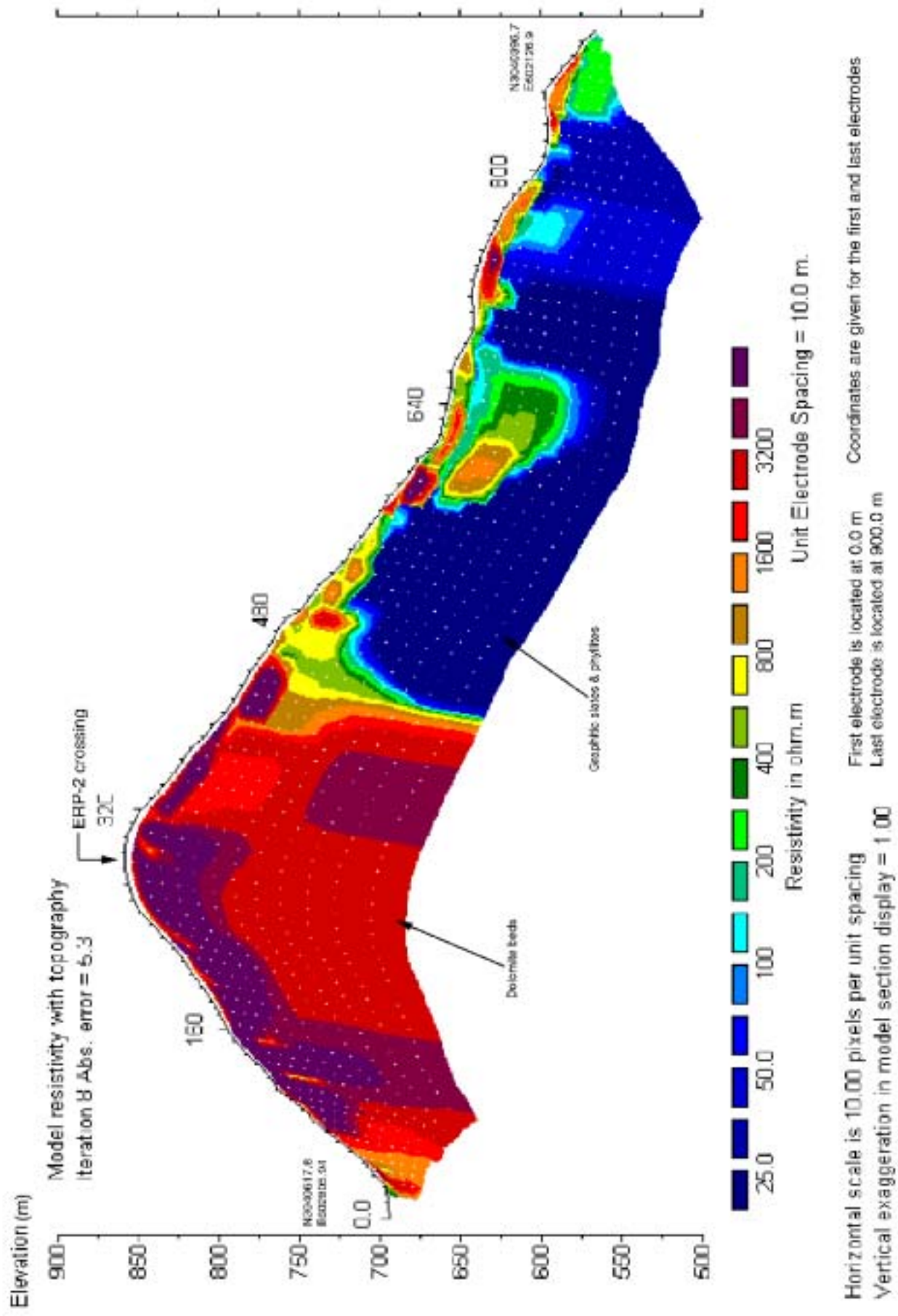
THE UPGRADING FEASIBILITY STUDY ON THE DEVELOPMENT OF THE KULEKHANI III HYDROPOWER PROJECT IN THE KINGDOM OF NEPAL	Figure B3.6.2 Electrical Resistivity Profiles around Tailrace Tunnel
JAPAN INTERNATIONAL COOPERATION AGENCY	



THE UPGRADING FEASIBILITY STUDY ON THE DEVELOPMENT OF THE KULEKHANI III HYDROPOWER PROJECT IN THE KINGDOM OF NEPAL

JAPAN INTERNATIONAL COOPERATION AGENCY

Figure B3.6.3
Electrical Resistivity Profiles around Underground Structure Site



THE UPGRADING FEASIBILITY STUDY ON THE DEVELOPMENT OF THE KULEKHANI III HYDROPOWER PROJECT IN THE KINGDOM OF NEPAL	Figure B3.6.4 Electrical Resistivity Profiles around Underground Structure Site
JAPAN INTERNATIONAL COOPERATION AGENCY	

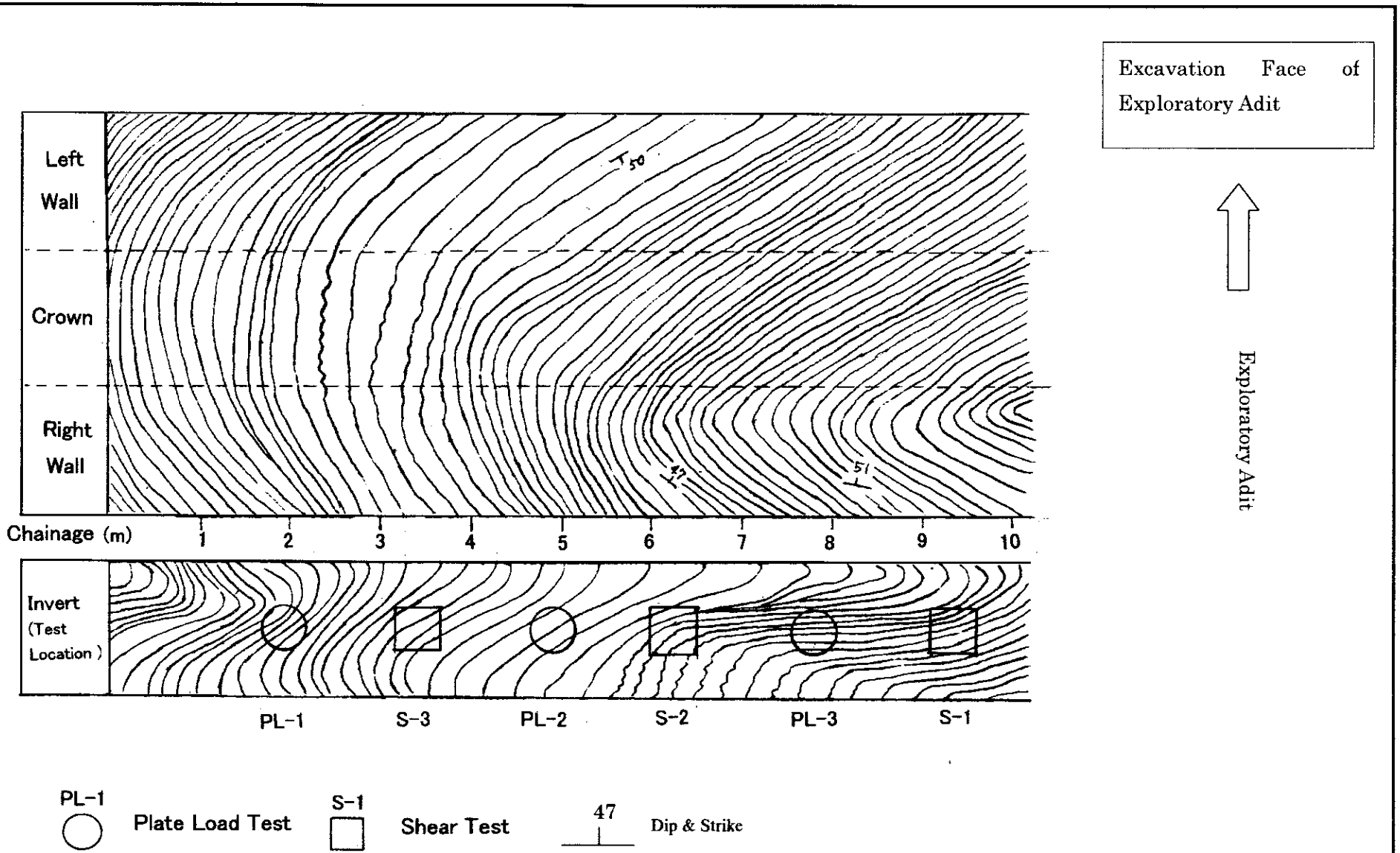


Figure B3.7.1 Plan of Branch Adit for In-situ Rock Testing

Rock condition of Testing Site
(Dolomite around portal portion of Test Chamber)

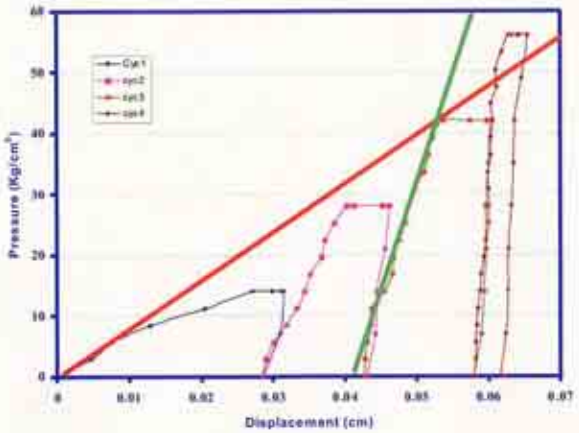
Rock condition of Testing Site
(Dolomite around excavation face of Test Chamber)

Plate Loading Test
(Loading Plate and Testing Equipment)

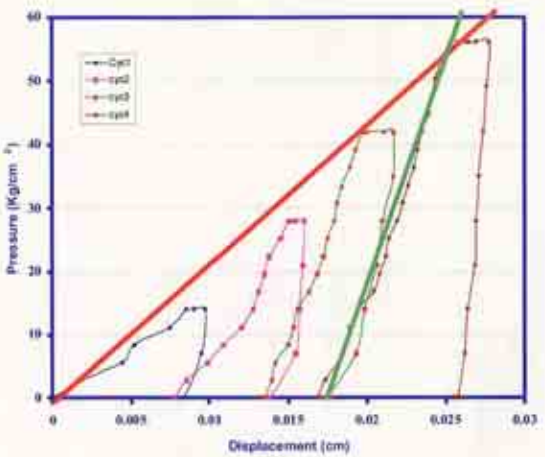
Rock condition of Testing site
(Dolomite in the bottom portion of Test Chamber)

Block Shear Test
(Sheared Block and Testing Equipment)

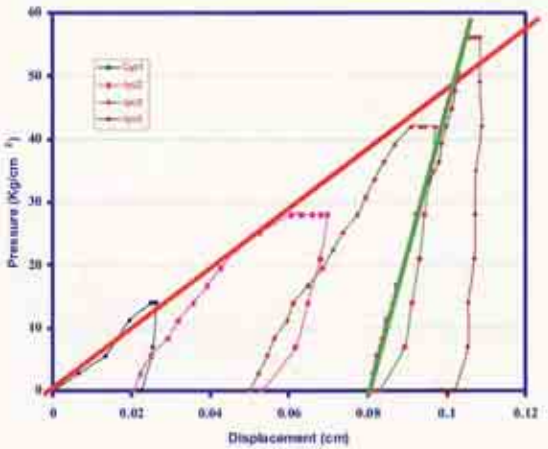
Figure B3.7.2 Tesiting Condition of Branch Adit



PL-1



PL-2



PL-3

PL-1

D = $(1-\mu^2)$ x dF /dS x 0.5 a

= $(1- 0.2^2)$ x (9.686×10^4)/ (0.0531-0.00) x 1/ (2 x 27.5)

= 3,183.9 MPa

E = $(1-\mu^2)$ X dF /dS X 0.5 a

= $(1- 0.2^2)$ x (9.686×10^4)/ (0.0531-0.0.04156) x 1/ (2 x 27.5)

= 14,650.3 MPa

PL-2

D = $(1-\mu^2)$ x dF /dS x 0.5 a

= $(1- 0.2^2)$ x (11.9672×10^4)/ (0.025-0.00) x 1/ (2 x 27.5)

= 9,366.9 MPa

E = $(1-\mu^2)$ x dF /dS x 0.5 a

= $(1- 0.2^2)$ x (11.9672×10^4)/ (0.025-0.0027) x 1/ (2 x 27.5)

= 25,340.5 MPa

PL-3

D = $(1-\mu^2)$ x dF /dS x 0.5 a

= $(1- 0.2^2)$ x (11.17522×10^4)/ (0.10270 - 0.00) x 1/ (2 x 27.5)

= 1,869.5 MPa

E = $(1-\mu^2)$ X d F /d S X 0.5 a

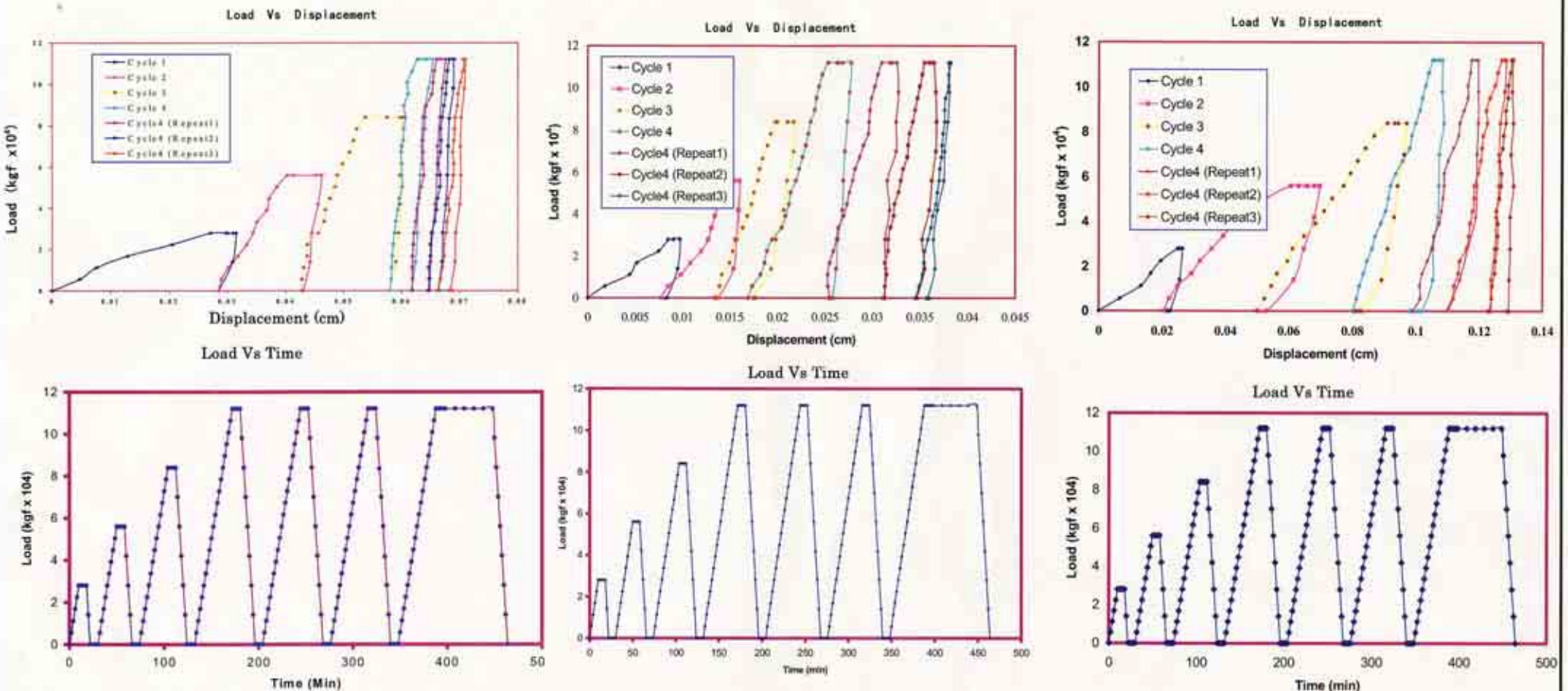
= $(1- 0.2^2)$ x (11.17522×10^4)/ (0.10270-0.00973) x 1/ (2 x 27.5)

= 8,392.9MPa

Modulus of Deformation

Modulus of Elasticity

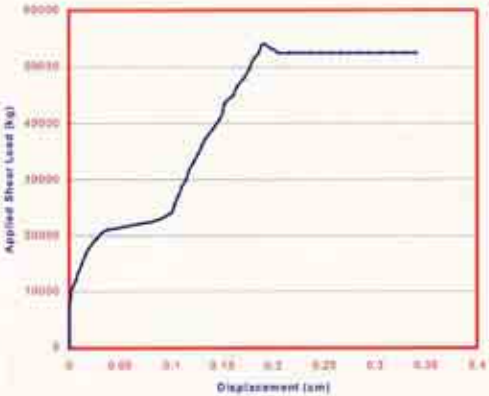
Figure B3.7.3 Results of Plate Loading Test



PL-1 PL-2 PL-3

Figure B3.7.4 Detailed Results of Plate Loading Test

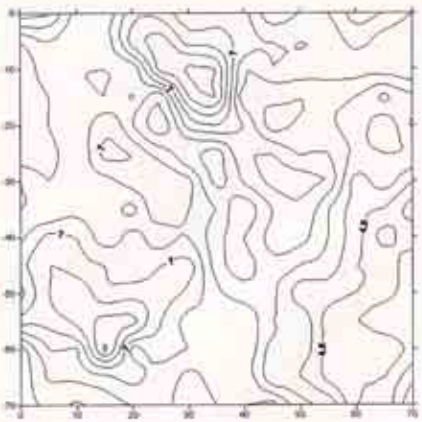
Testing Plane
(Before cleaning)
And
Testing Block
(Sheared)

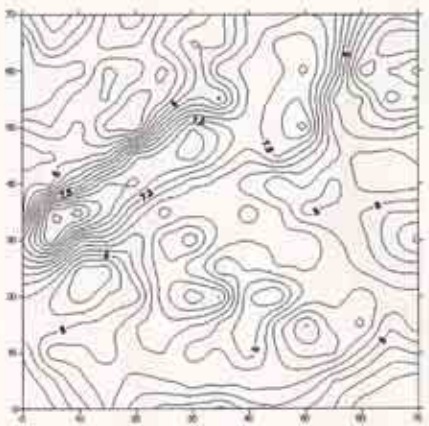


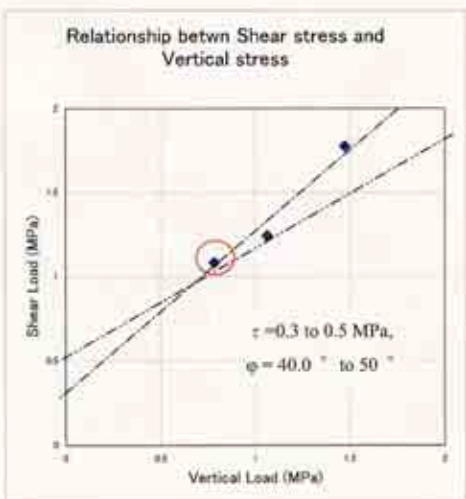
Plot between Shear Load and displacement for the 1st block

Contour Map

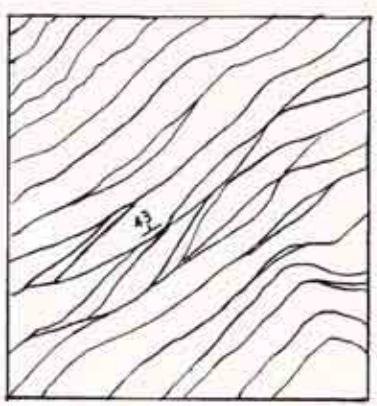
(Unit: cm)



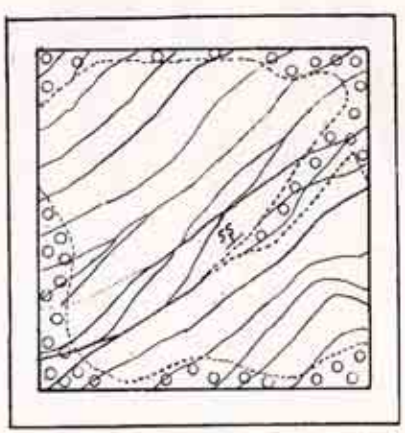




Geological
Sketch



Before Testing



After Testing

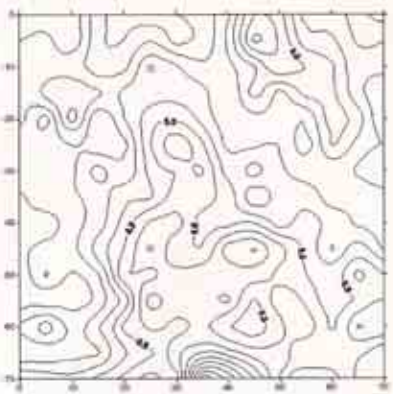
Mortar Cover

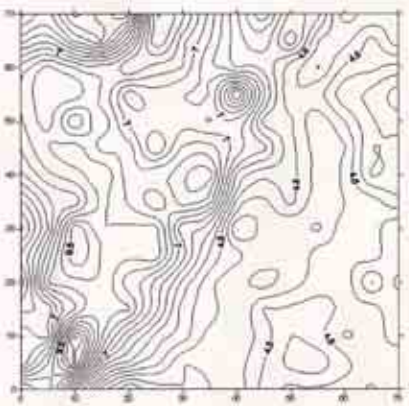
Figure B3.7.5 Summary Sheet of Block Shear Test (BL-1)

Testing Plane
(Before cleaning)
And
Testing Block
(Sheared)

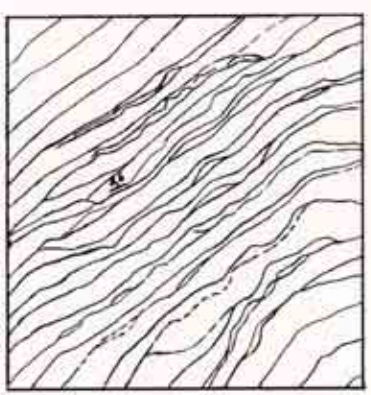
Plot between Shear Load and displacement for the 2nd block

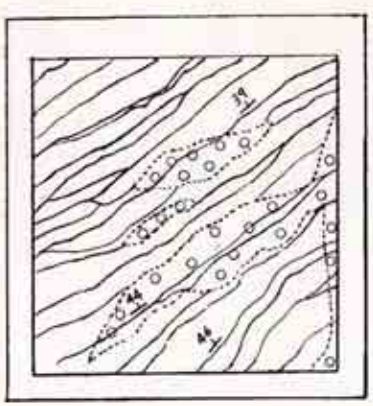
Contour Map



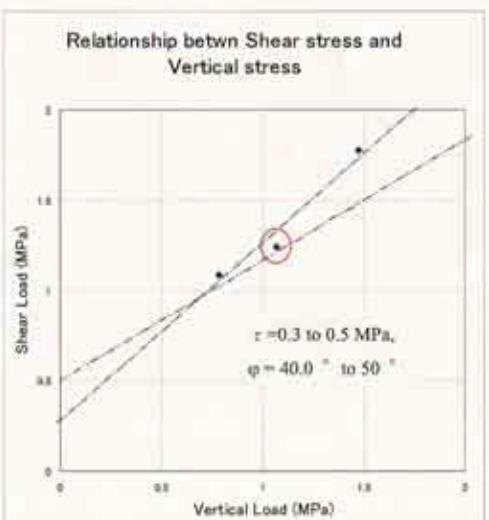


Geological
Sketch





Mortar Cover

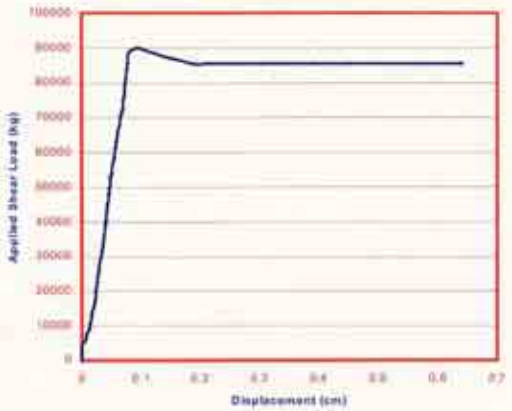


Before Testing

After Testing

Figure B3.7.6 Summary Sheet of Block Shear Test (BL-2)

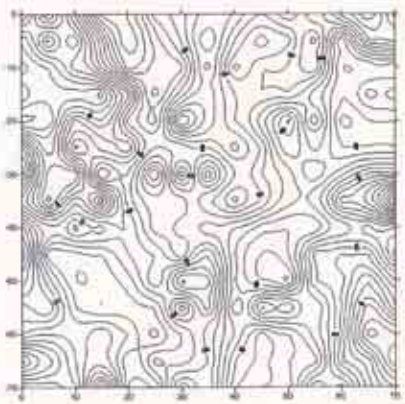
Testing Plane
(Before cleaning)
And
Testing Block
(Sheared)

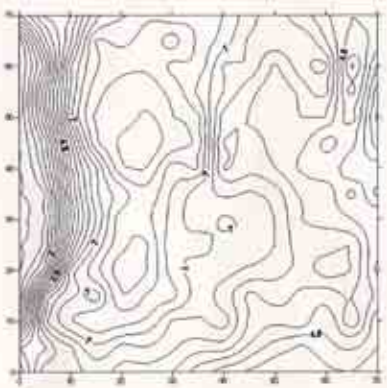


Plot between Shear Load and displacement for the 3rd Block

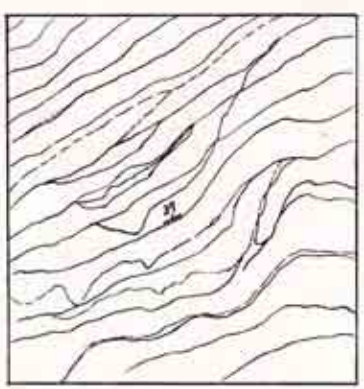
Contour Map

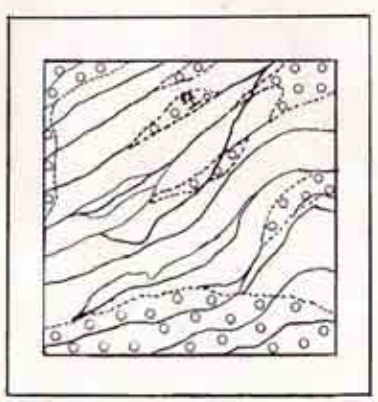
(Unit: cm)



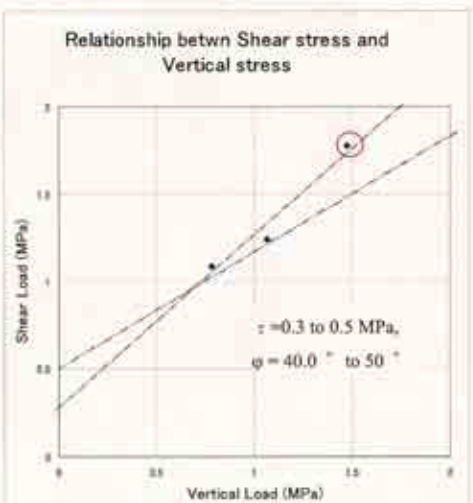


Geological
Sketch





Mortar Cover



Before Testing

After Testing

Figure B3.7.7 Summery Sheet of Block Shear Test (BL-3)