PLATES
Fig. 1  A deep narrow valley; the bridge seen in the picture is 1,500' below road level and is meant for mules and pedestrians only. (Koshalia Nadi near Datiar)

Fig. 2  Dip slope and escarpment face. (A view of Kasauli Ridge from Garkhal)

Fig. 3  Gullies in the Subathu shales. (Along Ghaggar Nadi near Malla)

Fig. 4  Spheroidal weathering in the Kasauli sandstones. (On the Kasauli-Kot Bija foot-path)

Fig. 5  Nodular weathering in the Dagshai siltstones. (Along Koshalia Nadi near Datyar Bridge)

Fig. 6  Conglomerate at the Subathu-Dagshai contact. (Along Koshalia Nadi near Jabli)
Fig. 1  Swash marks in the Kasaulis.  
(Along Koshalia Nadi near Datiar)

Fig. 2  Monoclinal folding and faulting in the Subathus.  
(On Garkhal Sanawar road near Garkhal)

Fig. 3  A small fault in the Dagshais.  
(On Subathu-Solan bridle path near Subathu)

Fig. 4  Local fault in the Dagshais.  
(On Kumarhatti-Dagshai M.E.S. road near Kumarhatti)

Fig. 5  Asymmetrical syncline.  
(On Kumarhatti-Nahan road near Pashong)

Fig. 6  Miniature folding in the Kasaulis.  
(Along Koshalia Nadi near Datiar)
DESCRIPTION  PLATE VI

Fig. 1  Sub-angular, equigranular grains of quartz in the calcareous sandstone of the Subathus.
(Plane polarised light x 150)

Fig. 2  Crystalline calcite as cementing material in the calcareous sandstone of the Subathus.
(Crossed nicols x 150)

Fig. 3  Angular grains of quartz in dense ferruginous cement in the ferruginous sandstone of the Subathus.
(Plane polarised light x 150)

Fig. 4  Mosaic texture and dolomitic vein in the pure and dolomitic limestone of the Subathus.
(Plane polarised light x 150)

Fig. 5  Nummulites sp. in the pure and dolomitic limestone of the Subathus.
(Plane polarised light x 150)

Fig. 6  Bipyhedral crystal of gypsum and fibrous habit of the mineral in the gypsum/anhydrite of the Subathus.
(Crossed nicols x 150)
DESCRIPTION  PLATE VII

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        (Crossed nicols x 150)

Fig. 2  Fractures in quartz of the quartzose sandstone of the Dagshais.  
        (Crossed nicols x 150)

Fig. 3  Authigenic growth over quartz of the quartzose sandstone of the Dagshais. 
        (Crossed nicols x 675)

Fig. 4  Buhedral crystal of quartz in the lithic sandstone of the Dagshais.  
        (Crossed nicols x 675)

Fig. 5  Inclusions in quartz of the lithic sandstone of the Dagshais.  
        (Crossed nicols x 150)

Fig. 6  Porphyroblast of quartz with sutured outlines in the lithic sandstone of the Dagshais.  
        (Crossed nicols x 675)
Fig. 1  Fragments of chert and schists in the 
lithic sandstone of the Dagshais.  
(Crossed nicols x 150)

Fig. 2  Angular grains of quartz in the 
calcareous sandstone of the 
Dagshais.  
(Plane polarised light x 150)

Fig. 3  Pseudo-olitic texture in the calcareous 
sandstone of the Dagshais.  
(Plane polarised light x 48)

Fig. 4  Rhombohedral crystal of quartz in the 
calcareous sandstone of the 
Dagshais.  
(Crossed nicols x 675)

Fig. 5  Deposition of calcite along cracks in 
the calcareous sandstone of the 
Dagshais.  
(Crossed nicols x 150)

Fig. 6  Closely packed angular to sub-angular 
grains of quartz in the ferruginous 
sandstone of the Dagshais.  
(Plane polarised light x 150)
Fig. 1  Reaction rims and irregular outlines of quartz in the conglomerate of the Kasaulis.  
(Crossed nicols x 675)

Fig. 2  Serrate margins of quartz in the conglomerate of the Kasaulis.  
(Plane polarised light x 150)

Fig. 3  Fragments of gneisses, schists and carbonaceous matter in carbonate cement in the conglomerate of the Kasaulis.  
(Crossed nicols x 150)

Fig. 4  Reaction rims along the contact of quartz and calcite in the meta-lithic sandstone of the Kasaulis.  
(Crossed nicols x 675)

Fig. 5  Reaction rims along the contact of quartz and calcite and mineral inclusions in quartz of the meta-lithic sandstone of the Kasaulis.  
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Fig. 6  Bent flake of biotite along quartz grain in the meta-lithic sandstone of the Kasaulis.  
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| Fig. 1 | Concentration of garnet in the meta-lithic sandstone of the Kasaulis. (Plane polarised light x 150) |
| Fig. 2 | Fragments of schists and carbonaceous matter and mechanical matrix in the meta-lithic sandstone of the Kasaulis. (Crossed nicols x 150) |
| Fig. 3 | Granoblastic texture in the meta-argillaceous sandstone of the Kasaulis. (Crossed nicols x 150) |
| Fig. 4 | Schistose texture in the meta-argillaceous sandstone of the Kasaulis. (Crossed nicols x 48) |
| Fig. 5 | Sub-angular grains closely packed in ferruginous/argillaceous matrix in the ferruginous sandstone of the Kasaulis. (Plane polarised light x 48) |
| Fig. 6 | Liquid, gas and mineral inclusions in quartz of the ferruginous sandstone of the Kasaulis. (Plane polarised light x 1500) |
DESCRIPTION PLATE XI

Fig. 1  ZIRCON
Camera lucida drawings
(Plane polarised light x 300)

Fig. 2  TOURMALINE
Camera lucida drawings
(Plane polarised light x 300)

Fig. 3  RUTILE
Camera lucida drawings
(Plane polarised light x 300)
DESCRIPTION PLATE XII

Fig. 1  EPIDOTE
Camera lucida drawings
(Plane polarised light x 300)

Fig. 2  GARNET
Camera lucida drawings
(Plane polarised light x 300)

Fig. 3  CHLORITE WITH INCLUSIONS OF BIOTITE
Camera lucida drawings
(Plane polarised light x 300)
Fig. 1  ANHYDRITE WITH DARK OPAQUE INCLUSIONS
Camera lucida drawings
(Plane polarised light x 300)

Fig. 2  MAGNETITE
Camera lucida drawings
(Oblique incident light x 300)

Fig. 3  HEMATITE
Camera lucida drawings
(Oblique incident light x 300)