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The geology of the bewaarkloof area : Pietersburg asbestos field

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2015-01-20
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REGIONAL GEOLOGY AND ASBESTOS MINES IN THE MALIPSDRIFT AREA

SCALE 1:50,000

BASED ON PUBLICATIONS OF THE GEOLOGICAL SURVEY OF SOUTH AFRICA WITH ADDITIONS AND ALTERATIONS BY THE AUTHOR

0 50 100 200 300 400 500 metres

N

MONTANA SYNCLINORIUM

AXIAL TRACE BEATRICE SYNCLINE

BEATRICE ANTICLINORIUM

AXIAL TRACE MALIPS SYNCLINE

WONDERKOP ANTICLINE

FOLD AXIS

FOR SECTION REFER FIG 12

FOR SECTION REFER FIG 13a

EGNEP (PTY) LTD

MONTANA MINE

BEATRICE CENTRAL MINE

KRANSKLOOF MINE

WONDERKOP ASBESTOS MINE

HIGHER TUBEX MINE

LOWER TUBEX MINE

TUBEX

UNICANTS RIVER

SECTIONS

For section A-A' refer Fig 13a.

For section B-B' refer Fig 12.

LEGEND

RECENT

TRANSVAAL SYSTEM

rubble sand scree		
quartzite	MAGALIESBERG STAGE	PRETORIA SERIES
hornfels		
conglom quartzite conglomerate	DASHOUT STAGE	
hornfels shale		
quartzite	TIMEBALL HILL STAGE	
shale hornfels breccia conglomerate		
dolomite chert shale	UPPER DOLOMITE STAGE	DOLOMITE SERIES
altered dolomite shale hornfels		
dolomite chert shale	BANDED IRONSTONE STAGE	
banded ironstone	MAIN DOLOMITE STAGE	
lower dolomite chert shale		BLACKREEF SERIES
quartzite sandstone dolomite lenses conglomerate		

dolerite dyke

diabase sill

syncline

anticline

plunge of fold

dip

fault

strike/dip

road

amosite outcrop

crocidolite outcrop

C. DREYER 1969

ZONE IN WHICH NORH — SOUTH FOLDING IS DEVELOPED. FIBRE IS CONFINED TO THIS ZONE

TRANSITION ZONE BETWEEN AMOSITE BEARING FORMATION AND CROCIDOLITE BEARING FORMATION

LOT 245

KRANS SECTION

MAGAZINE SECTION

ARKLOOF

Kranz anticline

Knee-Bend anticline

— MAP 3 —

DISTRIBUTION OF ASBESTOS

BEWAARKLOOF MINE WORKINGS

EGNEP MINES

MALIPS DRIFT SECTION

SCALE 1:3600 (1" = 300')

500 0 500 1000 1500 ENG FEET

HEIGHTS ABOVE MEAN SEA LEVEL

COORDINATES ON Lo 29° IN ENGLISH FEET

0 100 200 300 METRES

AIR PHOTOGRAPHY 1948/49

COMPILATION 1961/62

BUILDING

HUT

ROAD

TRACK

FOOTPATH

STREAM

OPEN WORKING

ADDIT

CONTOURS

FENCE

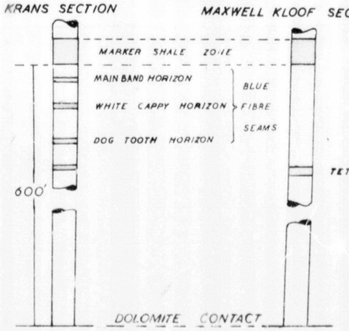
N

— LEGEND —

SCALE 1:1000

KRANS SECTION

MAXWELL KLOOF SECTION



— NOTE —

1. OCCURRENCE OF ASBESTOS IN CRESTS AND TROUGHS OF EAST-WEST ANTICLINES AND SYNCLINES. SAME OCCURRENCES ARE ALSO WITHIN A ZONE TRENDING PARALLEL TO THE NORTH-SOUTH FOLD DIRECTION WITH BARREN STRETHES ON EITHER SIDE.
2. AMOSITE OCCURS NORTH OF TRANSITION ZONE. CROCIDOLITE OCCURS SOUTH OF TRANSITION ZONE

BEWAARKLOOF

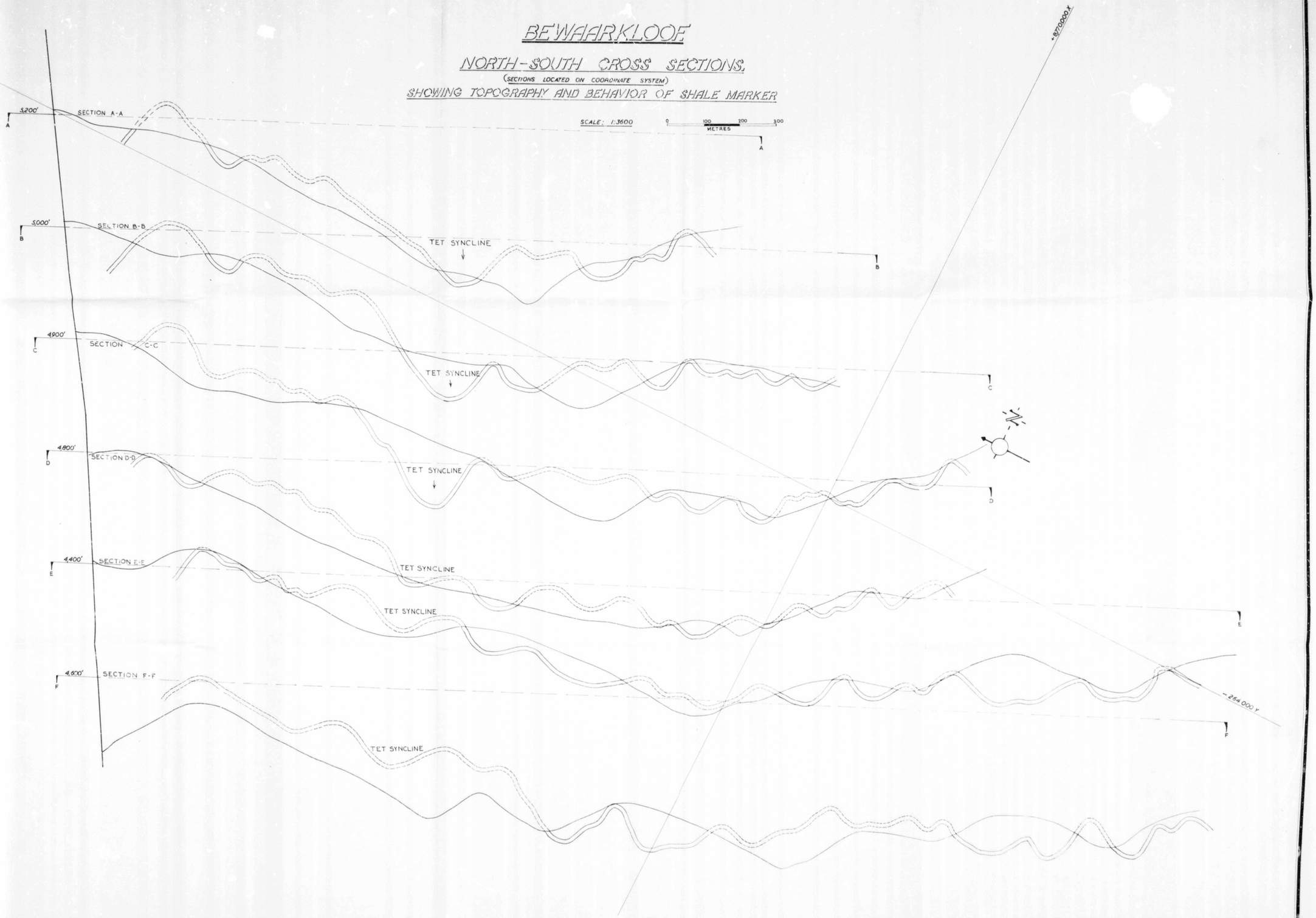
NORTH-SOUTH CROSS SECTIONS.

(SECTIONS LOCATED ON COORDINATE SYSTEM)

SHOWING TOPOGRAPHY AND BEHAVIOR OF SHALE MARKER

SCALE: 1:3600

0 100 200 300
METRES



Author Dreyer Cornelius Johannes Burger
Name of thesis The Geology Of The Bewaarkloof Area : Pietersburg Asbestos Field. 1974

PUBLISHER:
University of the Witwatersrand, Johannesburg
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