



Durham E-Theses

Not available

Maling, D. H.

How to cite:

Maling, D. H. (1972) *Not available*, Durham theses, Durham University. Available at Durham E-Theses
Online: <http://etheses.dur.ac.uk/9278/>

Use policy

The full-text may be used and/or reproduced, and given to third parties in any format or medium, without prior permission or charge, for personal research or study, educational, or not-for-profit purposes provided that:

- a full bibliographic reference is made to the original source
- a [link](#) is made to the metadata record in Durham E-Theses
- the full-text is not changed in any way

The full-text must not be sold in any format or medium without the formal permission of the copyright holders.

Please consult the [full Durham E-Theses policy](#) for further details.



10



*N.E. The representation on this map of a Road is
no evidence of the existence of a right of way.*

*Printed and Published by the Director General
of the Ordnance Survey, Chessington, Surrey, 195*

All rights of reproduction reserved.

LOWER WEARDALE INTERFLUVE AND SPUR PROFILES

VERTICAL EXAGGERATION x5

(12) BASED ON O.S. DATA; SOME TRIGNOMETRIC CONTROL

(13) BASED ON O.S. DATA ONLY

(14) " " " " "

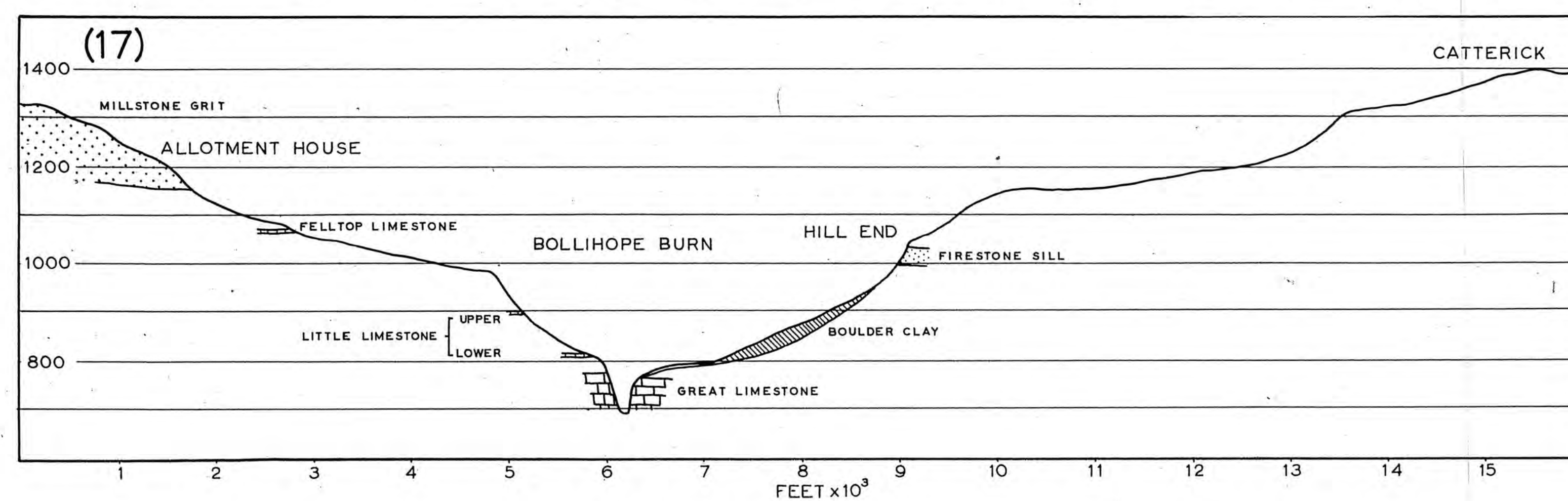
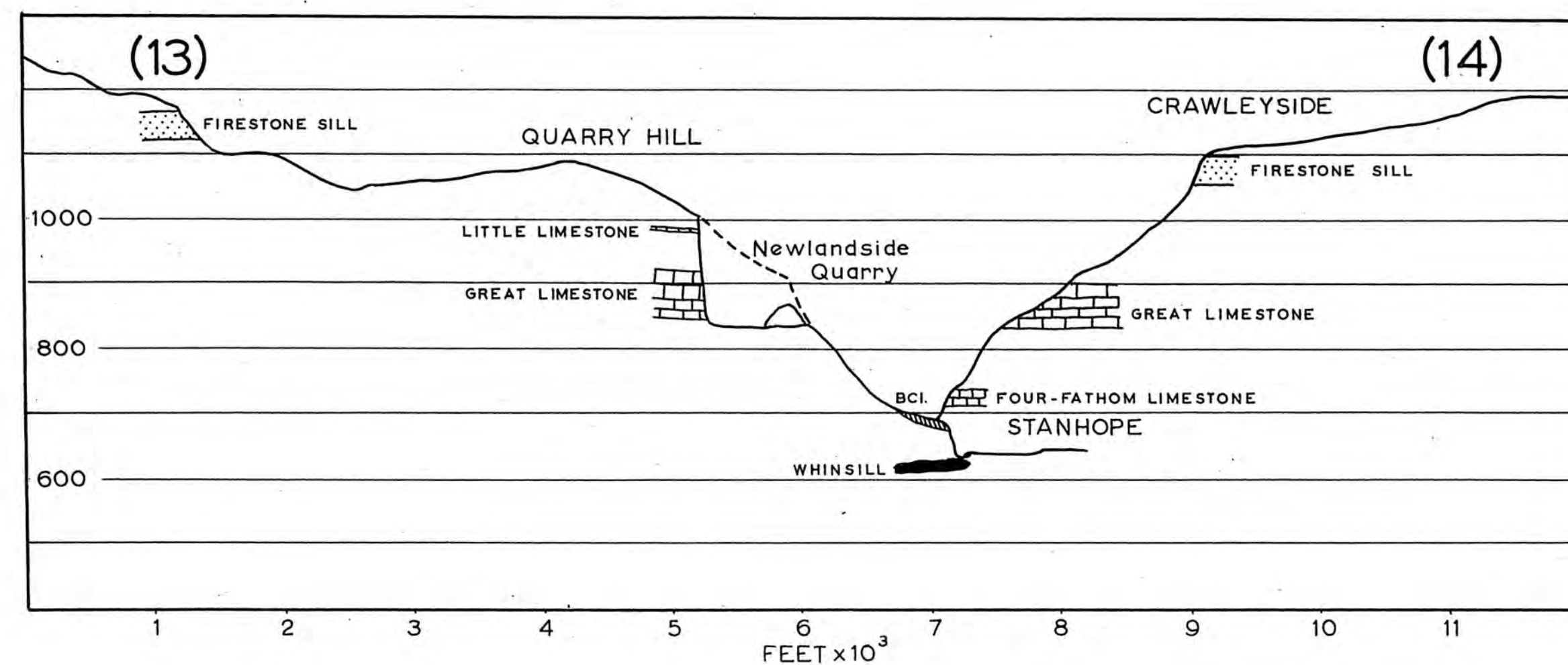
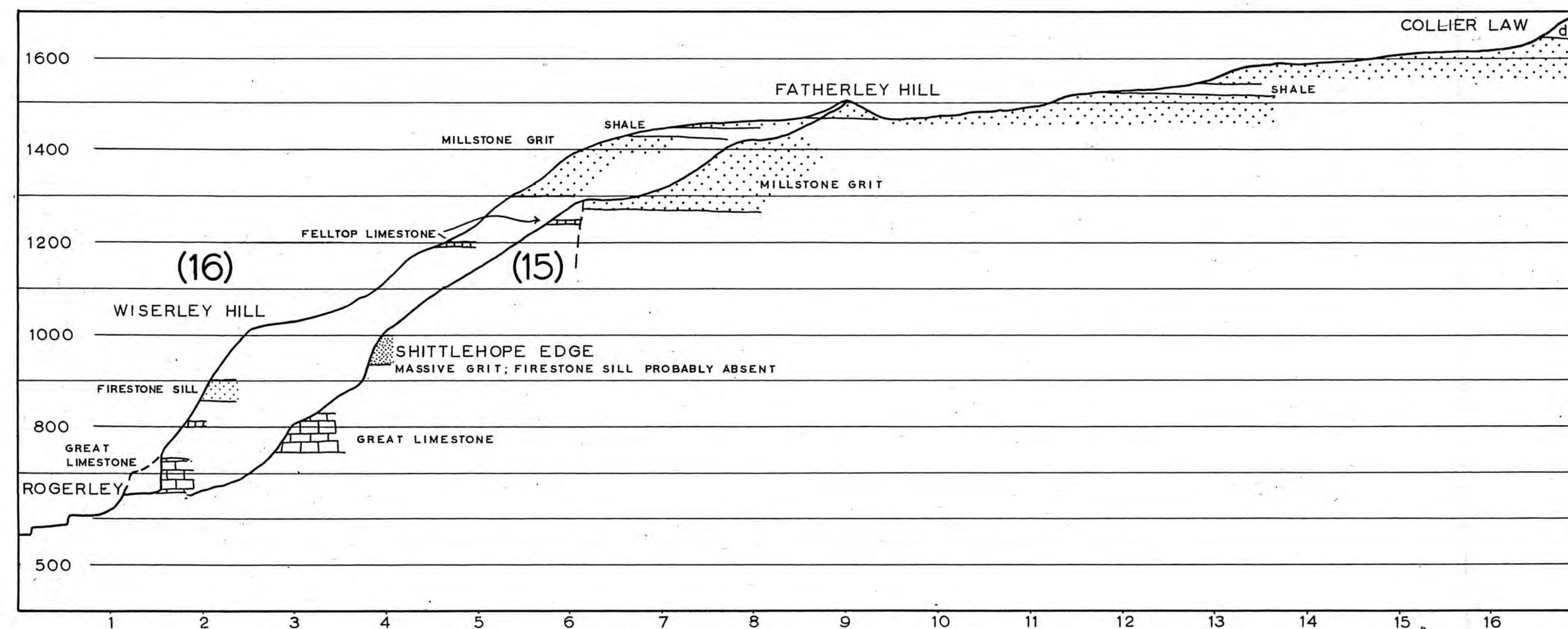
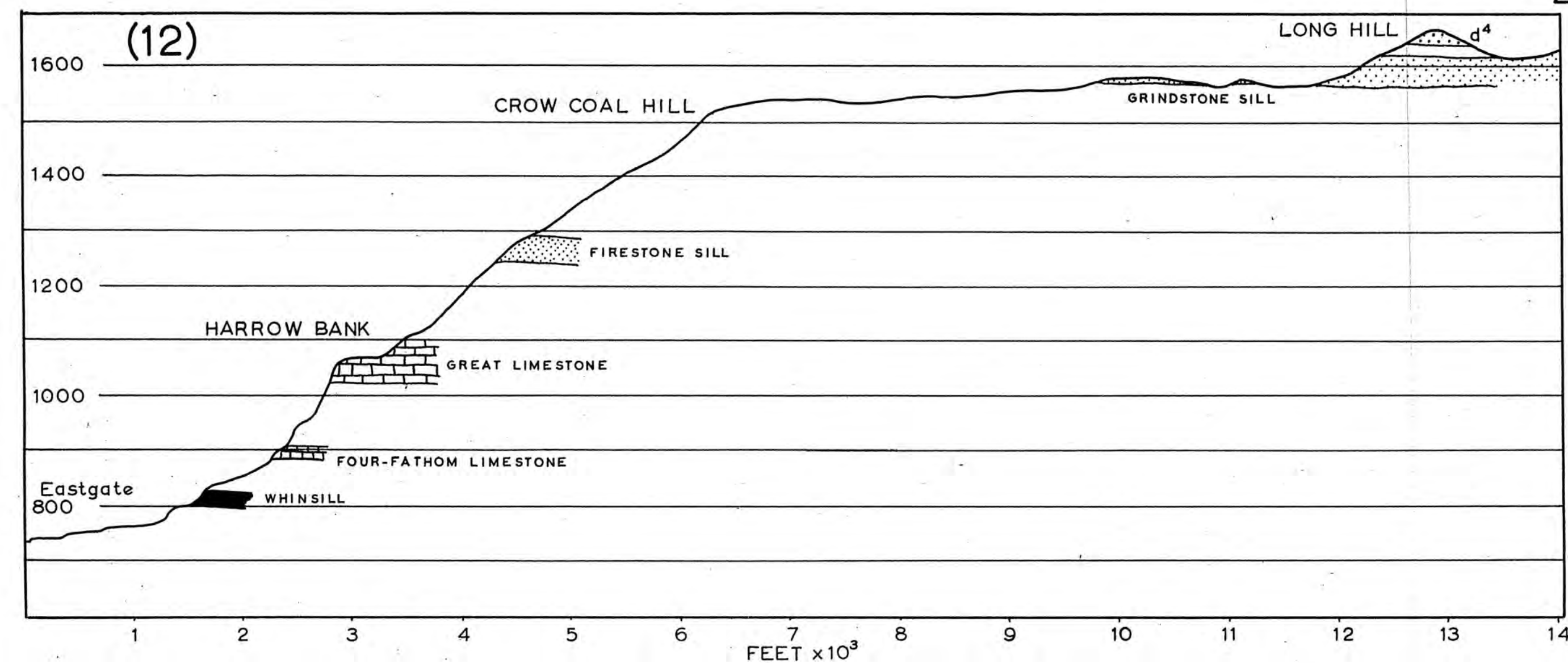
(15) SURVEYED BY PLANE-TABLE

(16) " " " "

(17) " " " "

GEOLOGICAL HORIZONS FROM PRIMARY SURVEY

DURHAM SIX-INCH SHEETS: XXIII, XXIV, XXXII



UPPER WEARDALE INTERFLUVE AND SPUR PROFILES

VERTICAL EXAGGERATION $\times 5$

(7) SURVEYED BY ANEROID WITH O.S. CONTROL.

(8) BASED ON O.S. DATA ONLY.

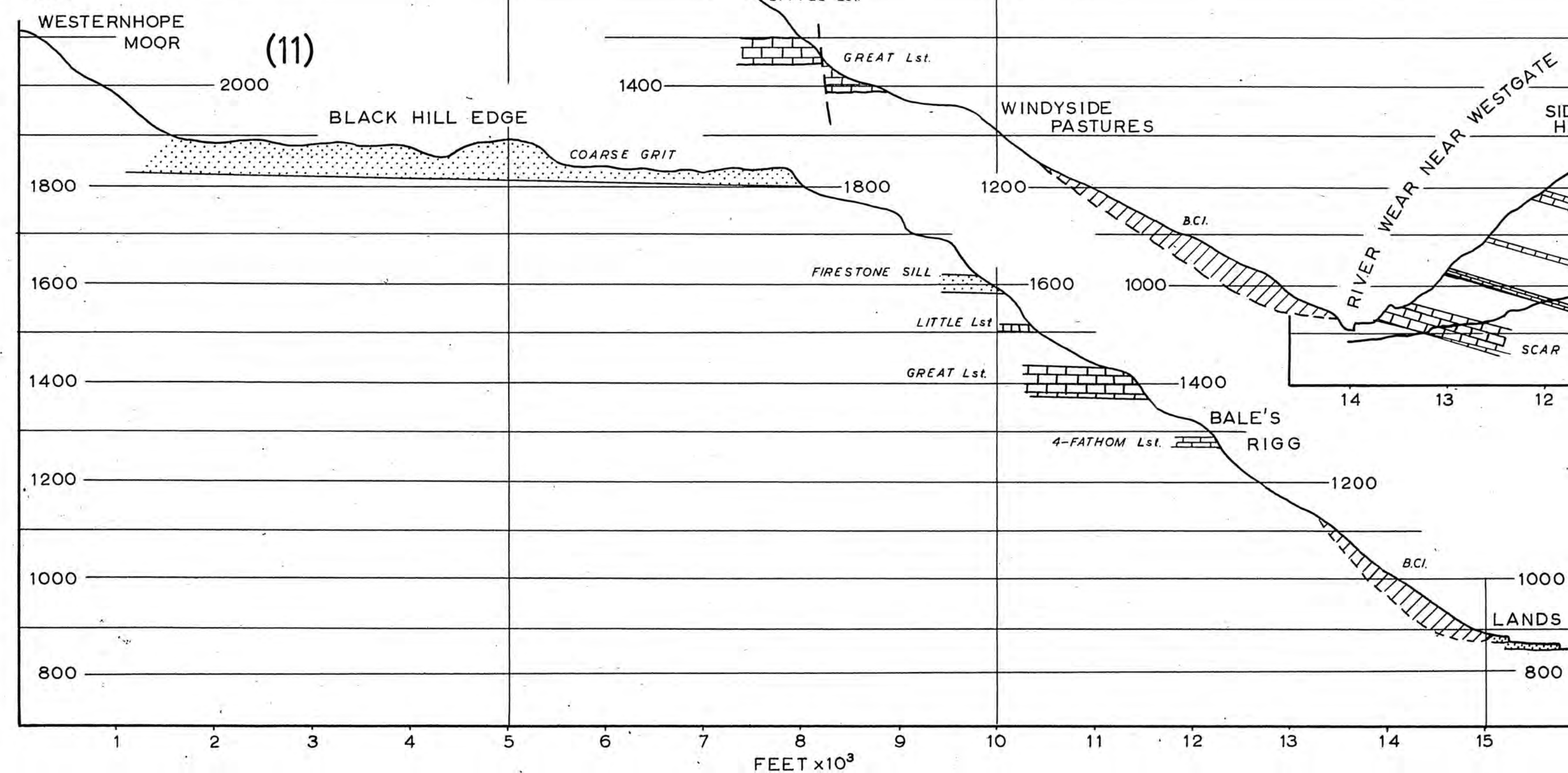
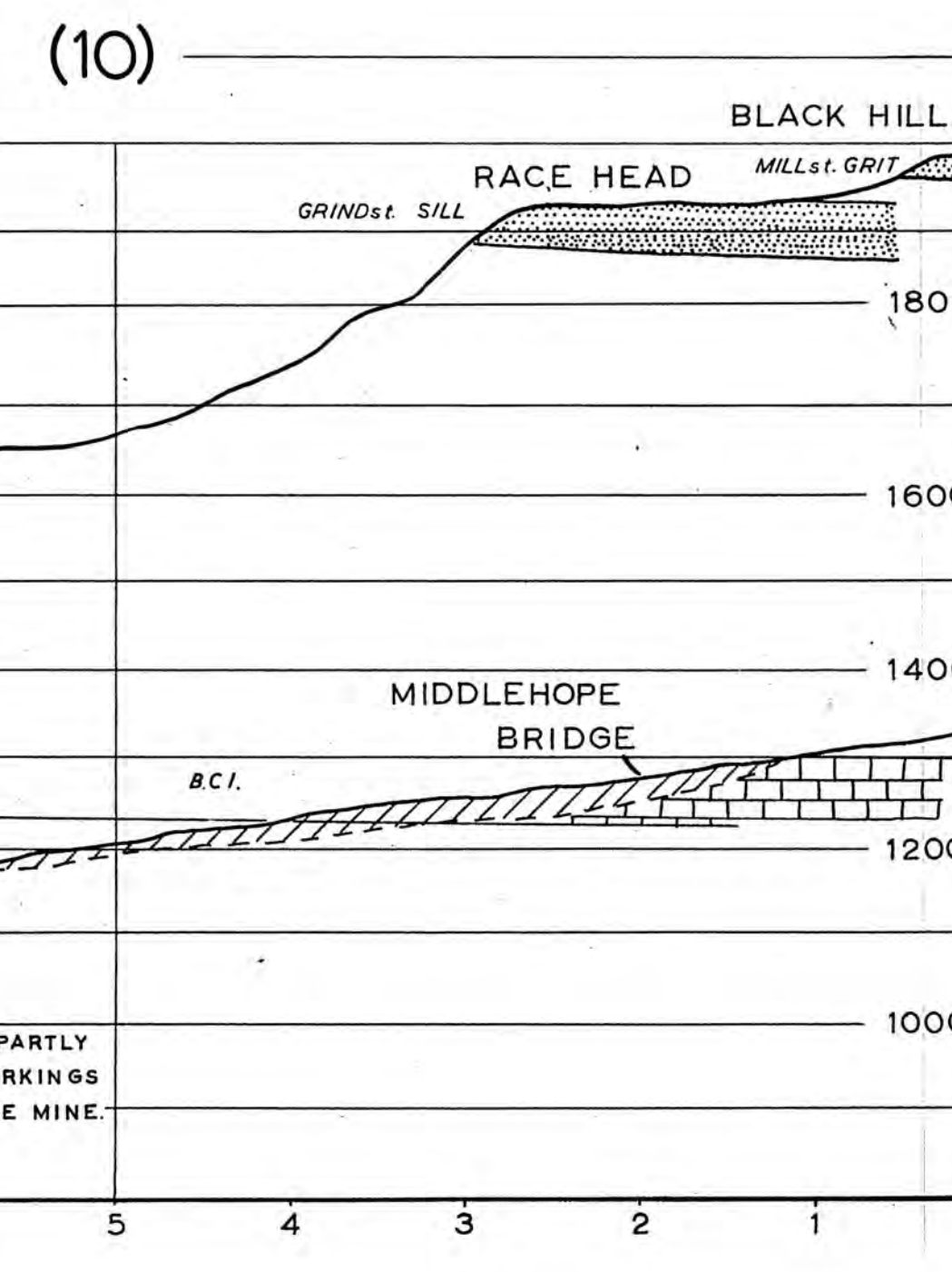
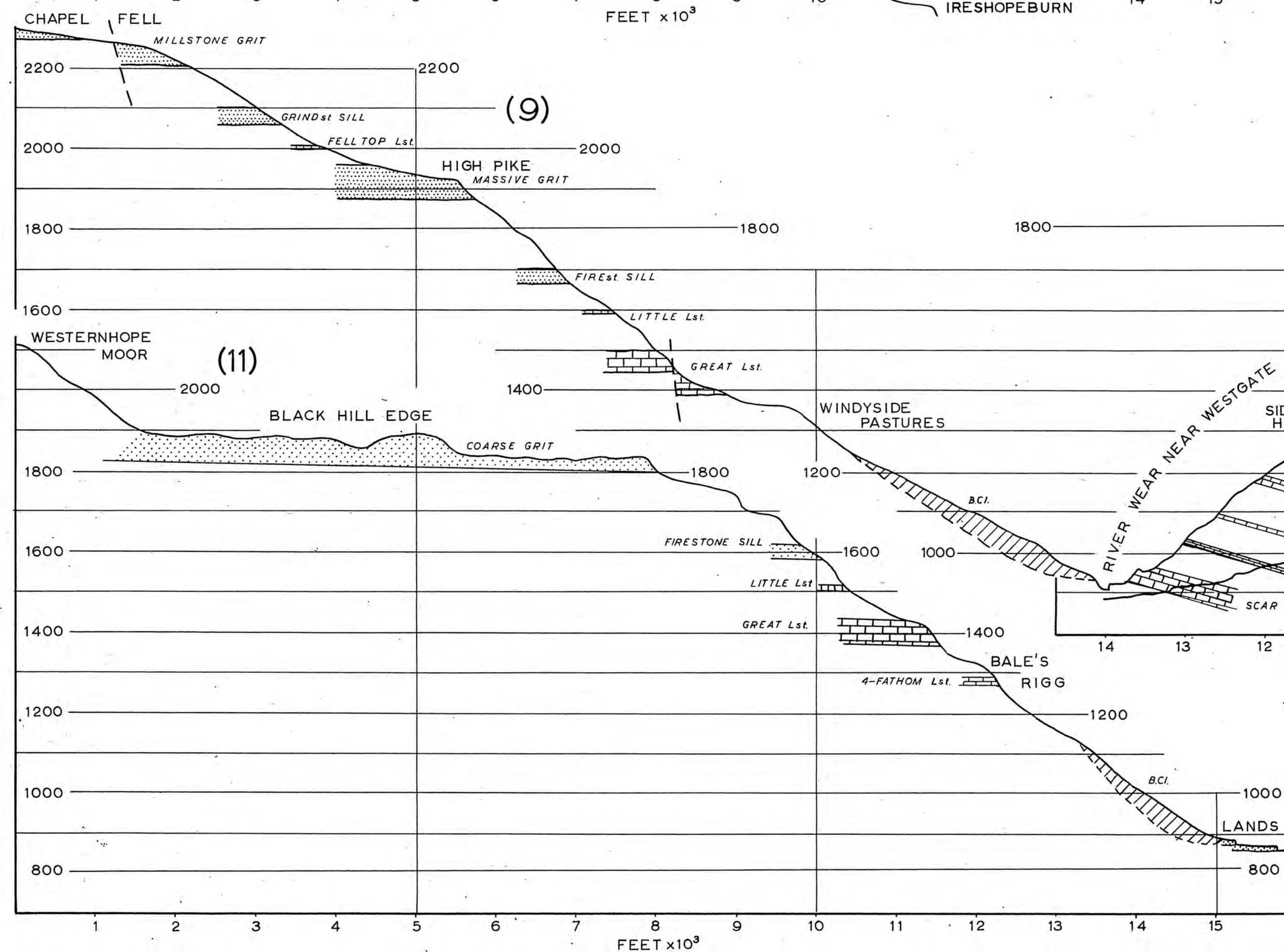
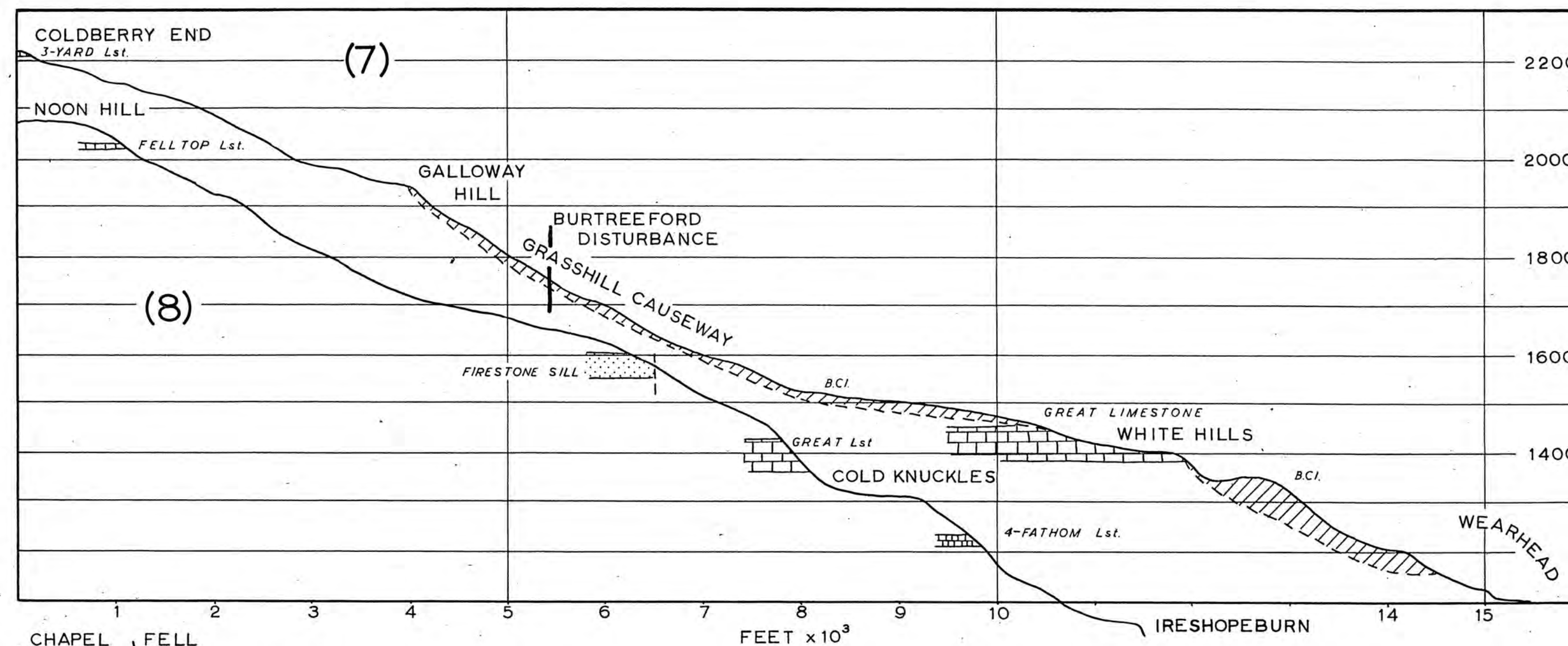
(9) SURVEYED BY ANEROID WITH O.S. CONTROL

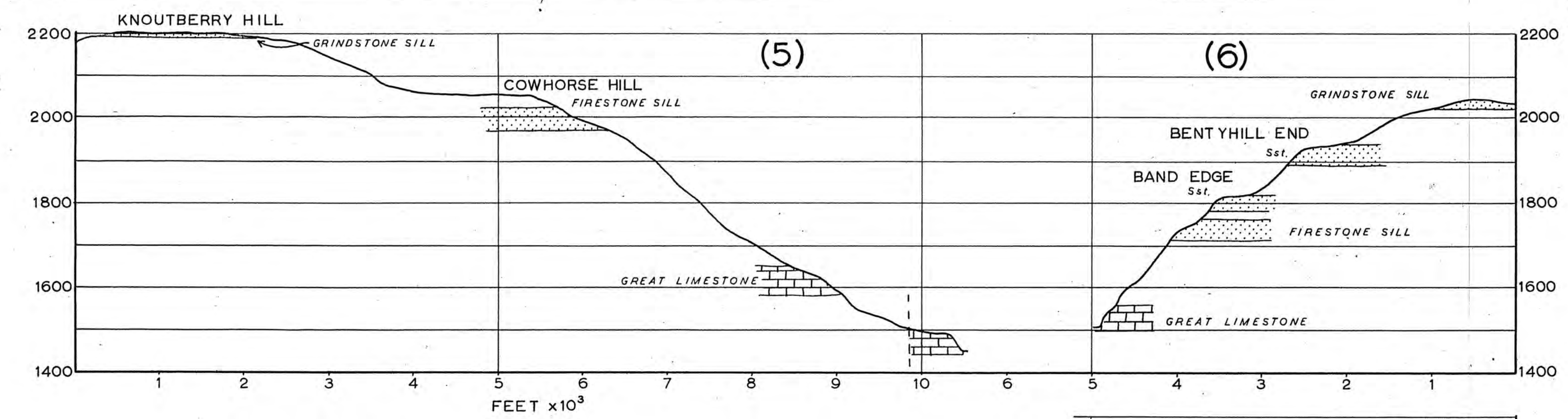
(10) " " " " TRIGNOMETRIC CONTROL.

(LONGITUDINAL PROFILE OF MIDDLEHOPE BURN MEASURED BY
LEVELLING.)

(11) BASED ON O.S. LEVELLING.

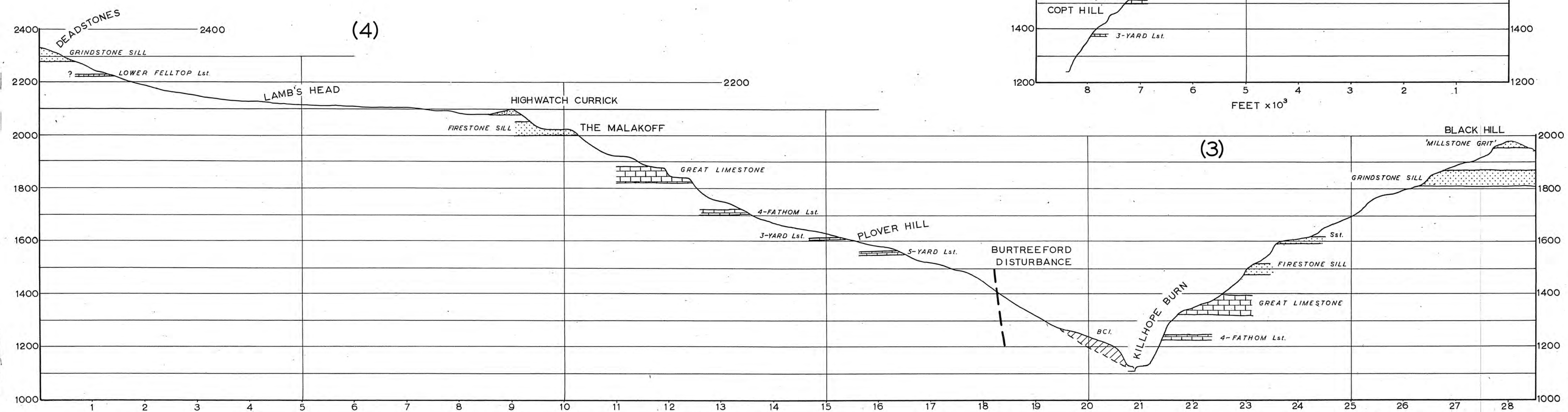
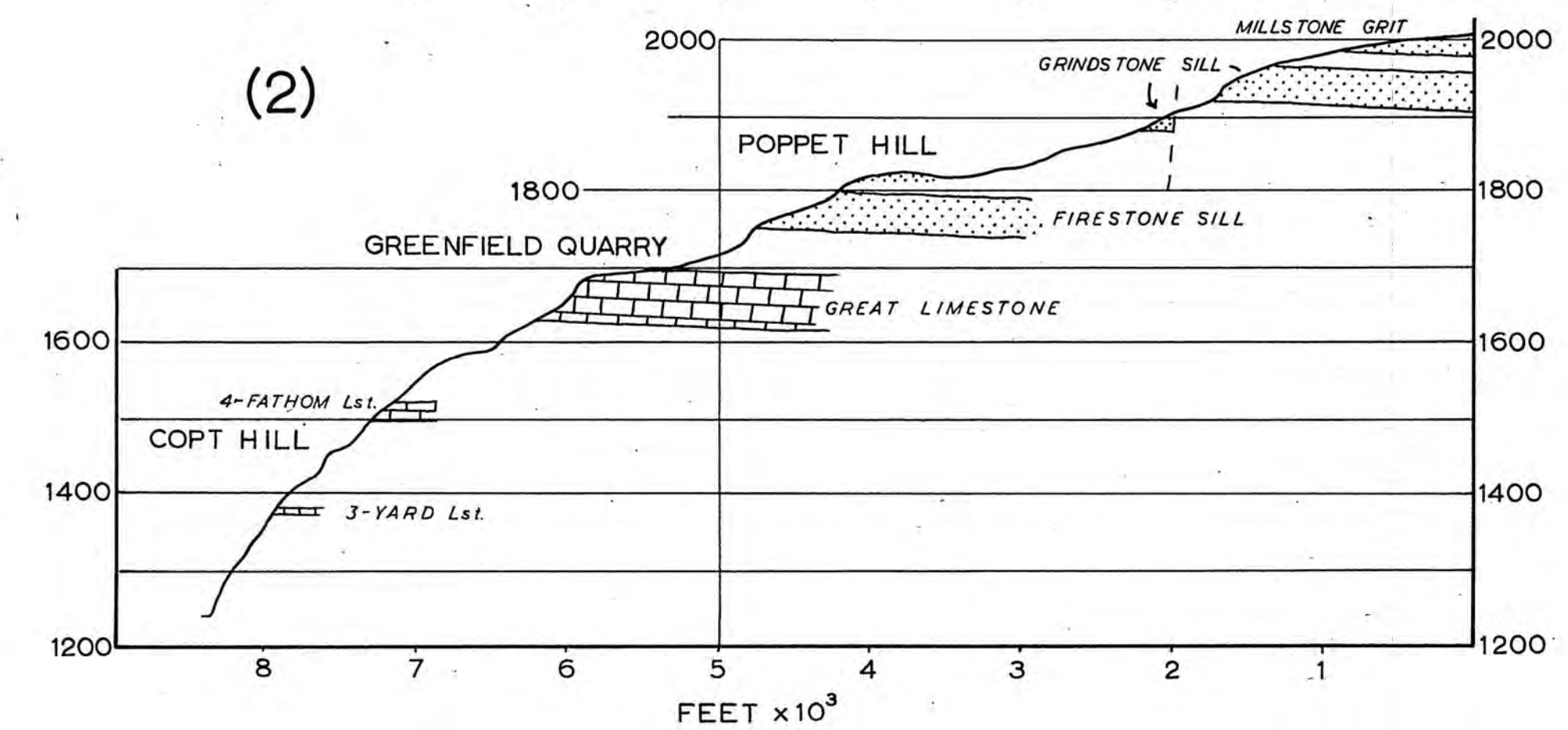
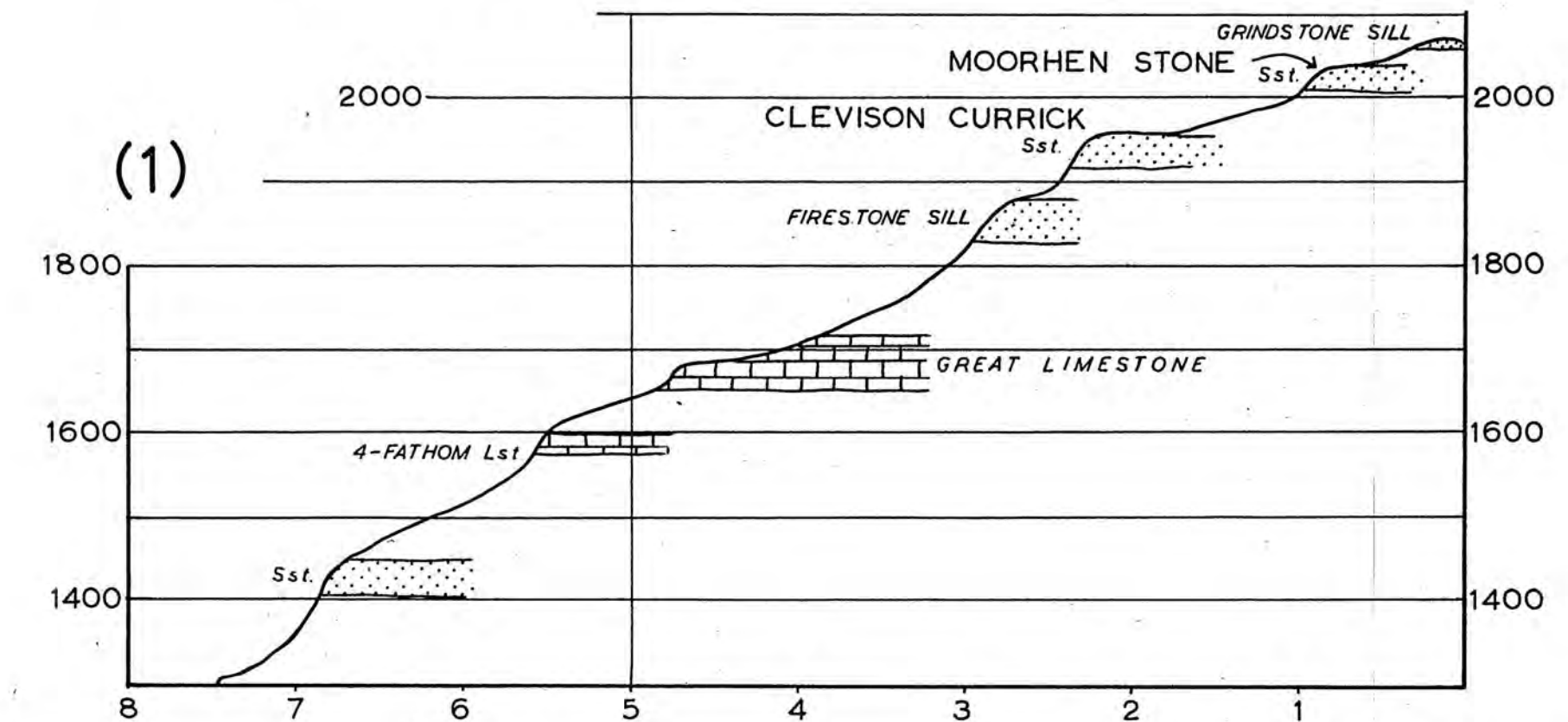
GEOLOGICAL HORIZONS FROM PRIMARY SURVEY. DURHAM 6-INCH,
SHEETS XXII, XXIII, XXX & XXXI.



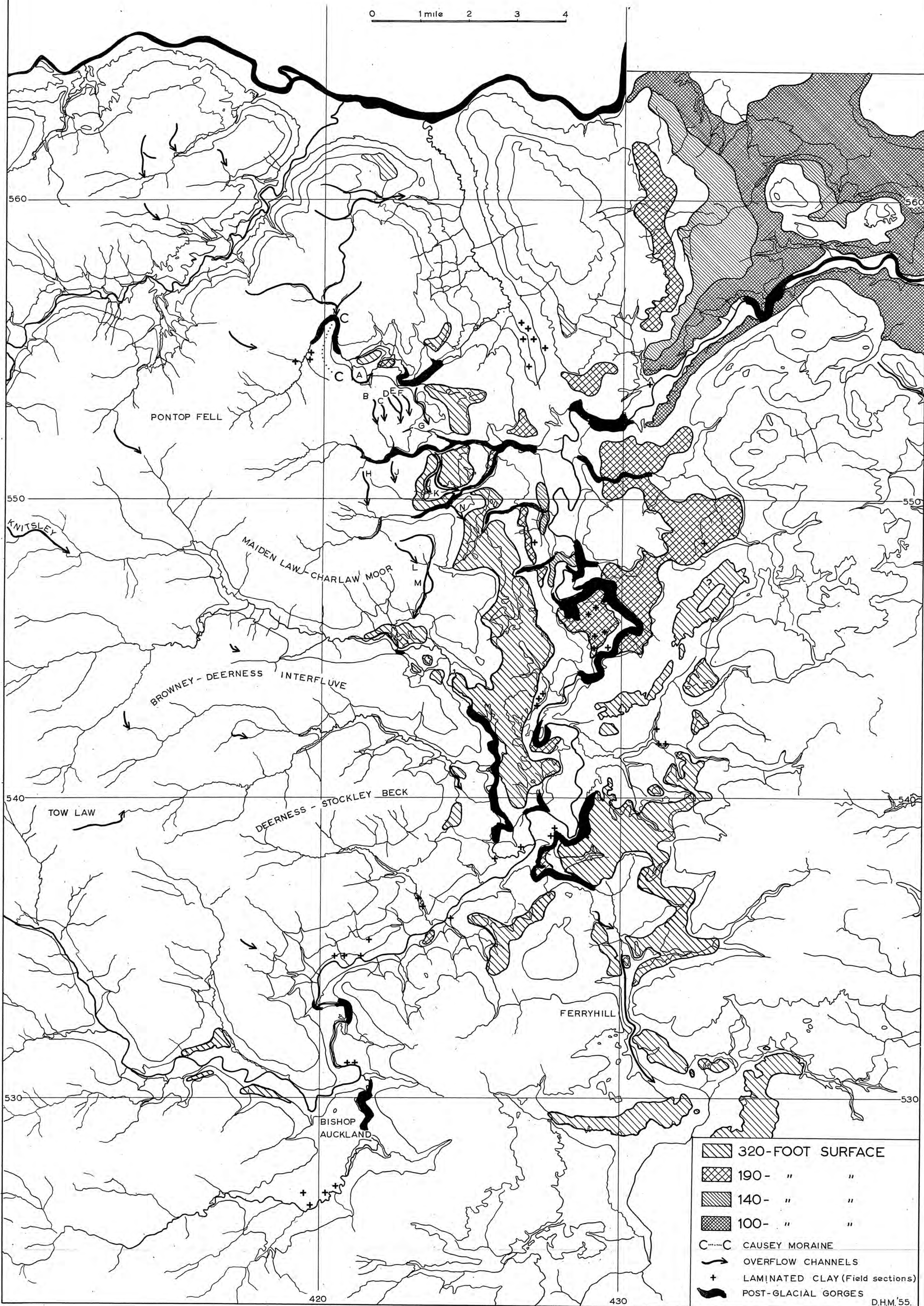


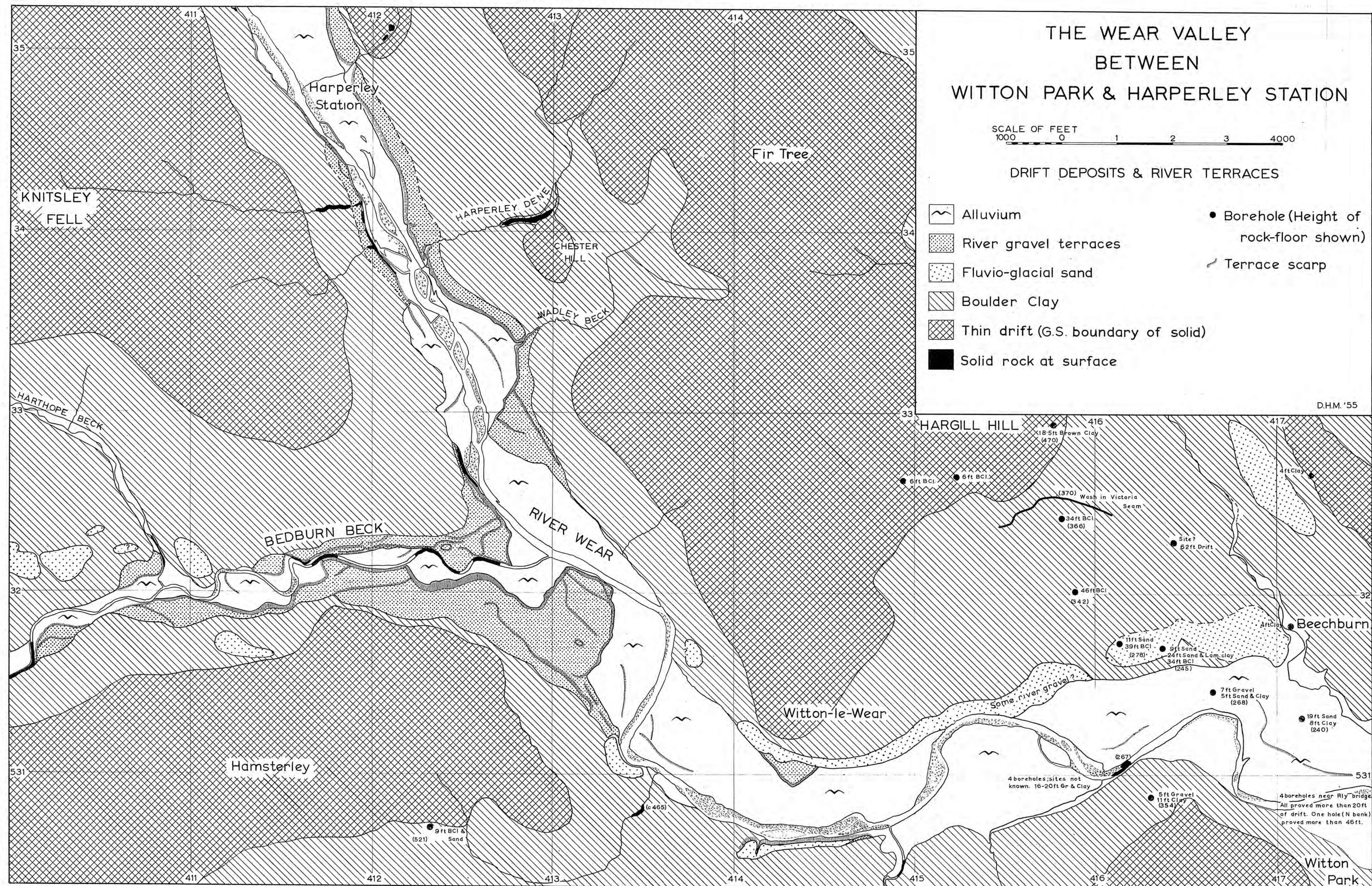
THE HEADWATERS OF THE RIVER WEAR INTERFLUVE AND SPUR PROFILES VERTICAL EXAGGERATION x 5

- (1) SURVEYED BY ANEROID WITH O.S. CONTROL ONLY
 - (2) " " " WITH TRIGNOMETRIC CONTROL
 - (3) " " " " " "
 - (4) " " " " O.S. CONTROL ONLY
 - (5) BASED ON O.S. DATA ONLY
 - (6) PART SURVEYED BY ANEROID
- GEOLOGICAL HORIZONS FROM PRIMARY SURVEY: DURHAM 6-INCH SHEET XXII.



THE POST-GLACIAL SURFACES OF THE WEAR VALLEY

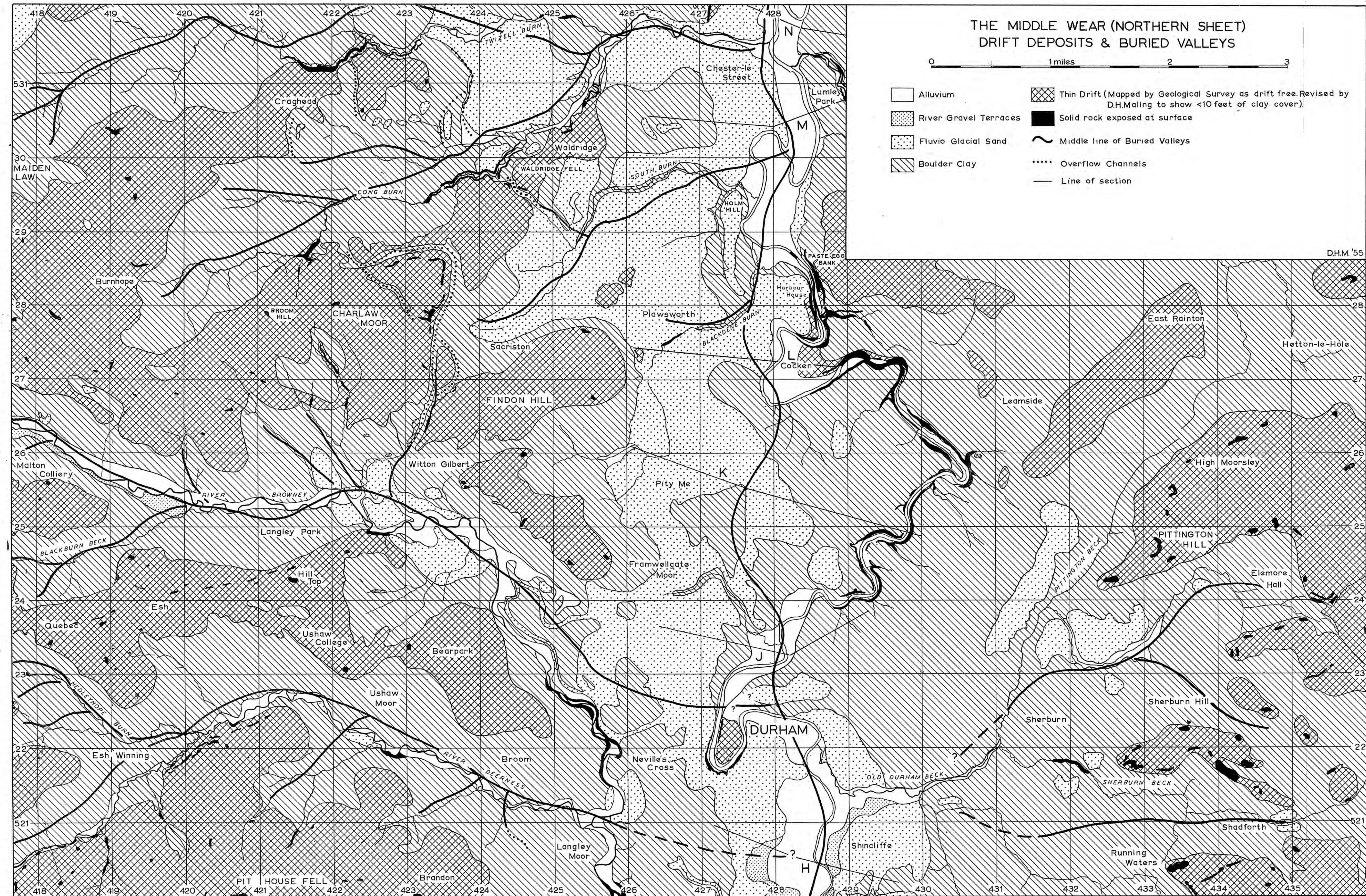


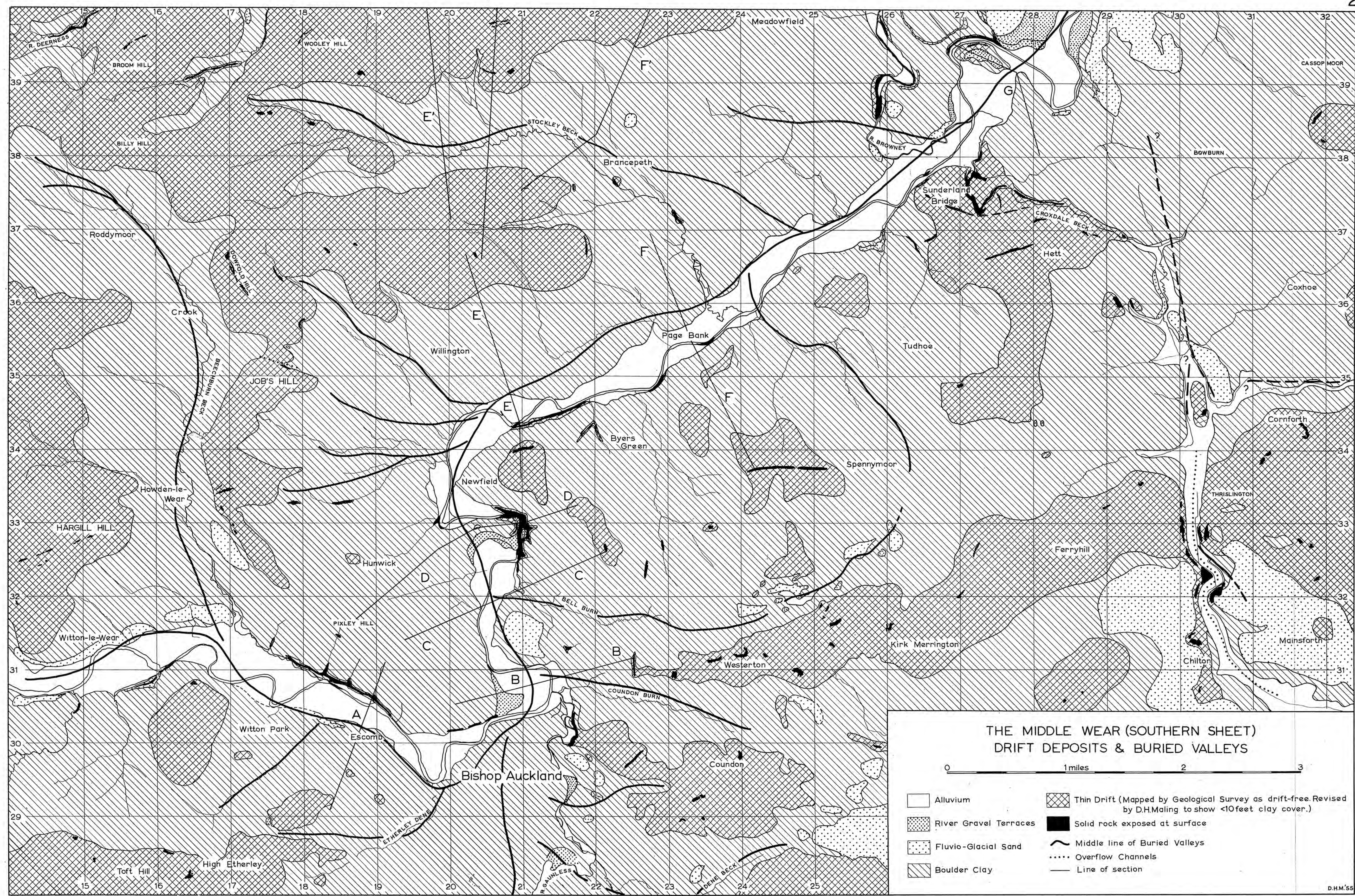


THE MIDDLE WEAR (NORTHERN SHEET) DRIFT DEPOSITS & BURIED VALLEYS



- | | |
|-----------------------|--|
| Alluvium | Thin Drift (Mapped by Geological Survey as drift free. Revised by D.H. Maling to show <10 feet of clay cover). |
| River Gravel Terraces | Solid rock exposed at surface |
| Fluvio Glacial Sand | Middle line of Buried Valleys |
| Boulder Clay | Overflow Channels |
| | Line of section |



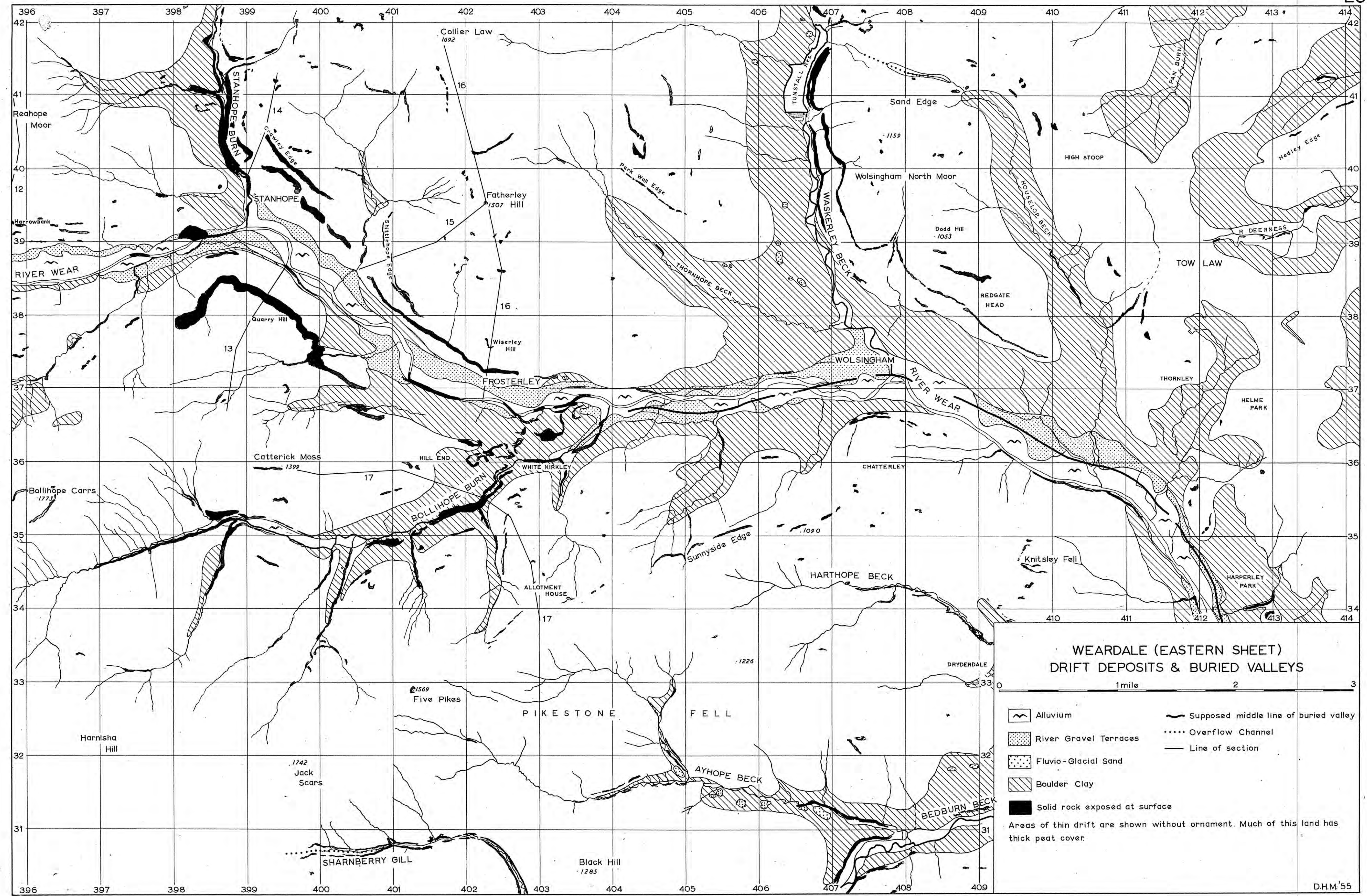


THE MIDDLE WEAR (SOUTHERN SHEET)
DRIFT DEPOSITS & BURIED VALLEYS

0 1miles 2 3

Alluvium	Thin Drift (Mapped by Geological Survey as drift-free. Revised by D.H.Maling to show <10 feet clay cover.)
River Gravel Terraces	Solid rock exposed at surface
Fluvio-Glacial Sand	Middle line of Buried Valleys
Boulder Clay	Overflow Channels
	Line of section

D.H.M.55

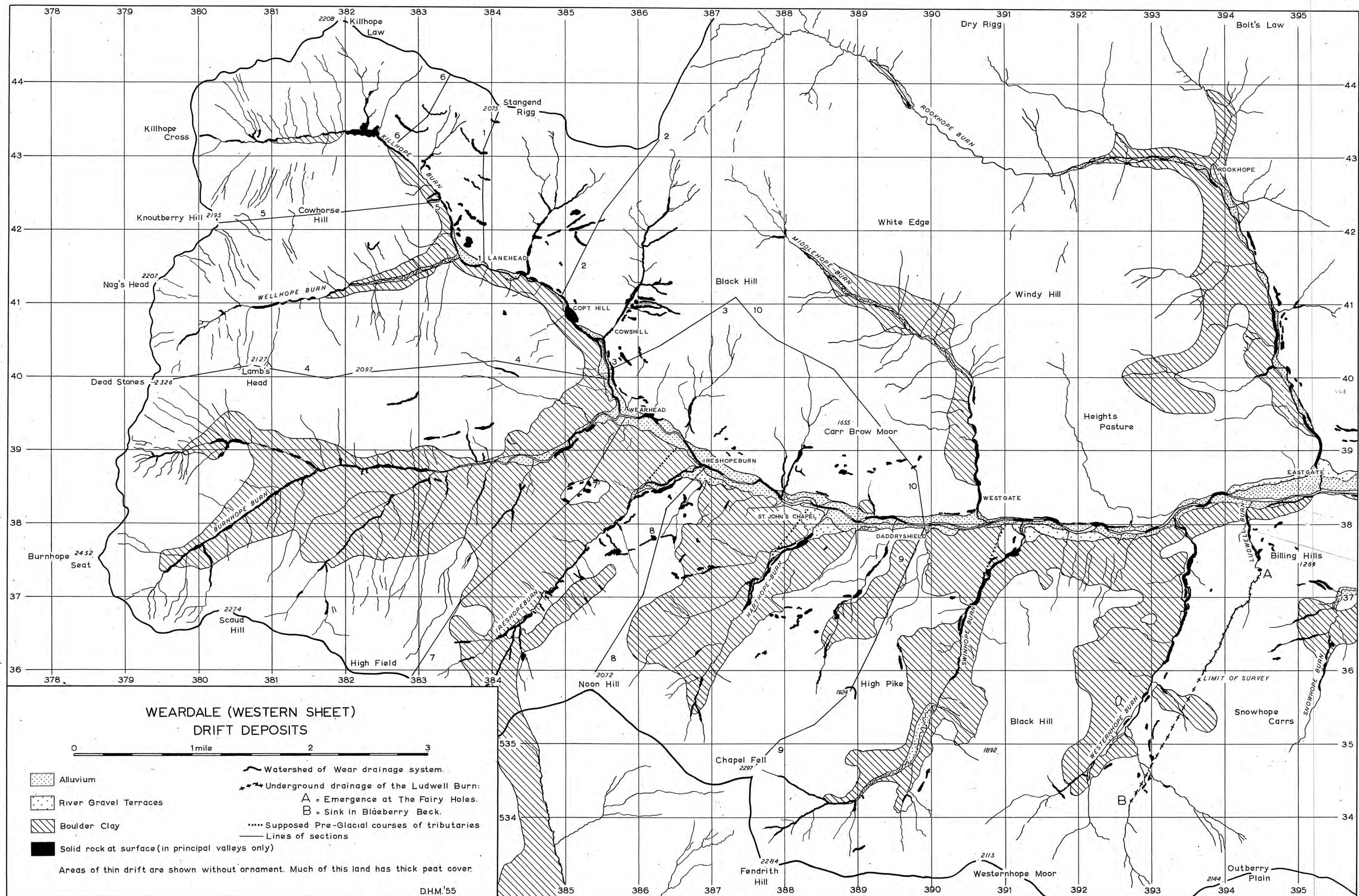


WEARDALE (EASTERN SHEET)
DRIFT DEPOSITS & BURIED VALLEYS

0 1mile 2 3

- | | |
|-------------------------------|---------------------------------------|
| Alluvium | Supposed middle line of buried valley |
| River Gravel Terraces | Overflow Channel |
| Fluvio-Glacial Sand | Line of section |
| Boulder Clay | |
| Solid rock exposed at surface | |

Areas of thin drift are shown without ornament. Much of this land has thick peat cover.

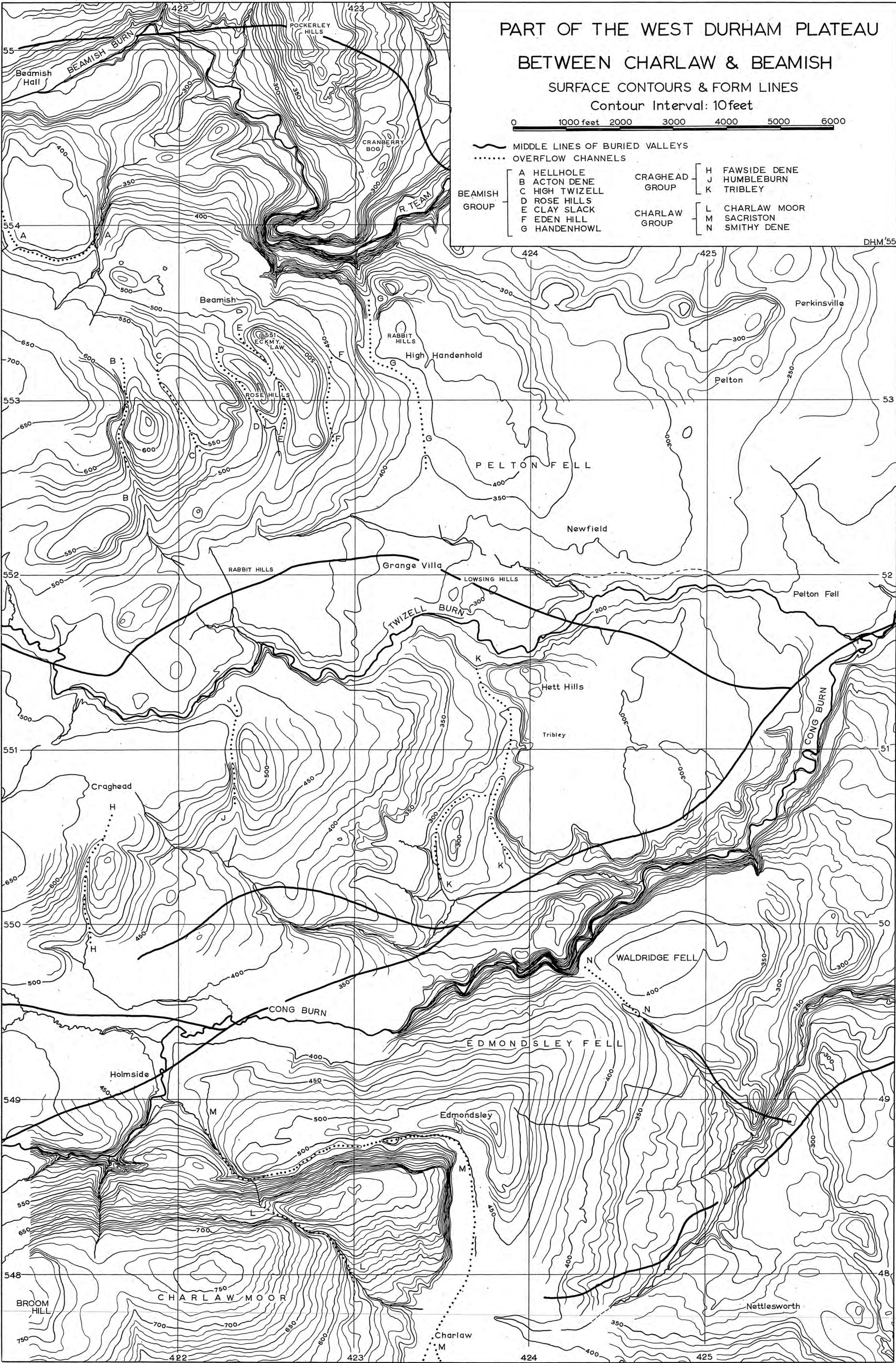


PART OF THE WEST DURHAM PLATEAU
BETWEEN CHARLAW & BEAMISH
SURFACE CONTOURS & FORM LINES
Contour Interval: 10 feet

0 1000 feet 2000 3000 4000 5000 6000

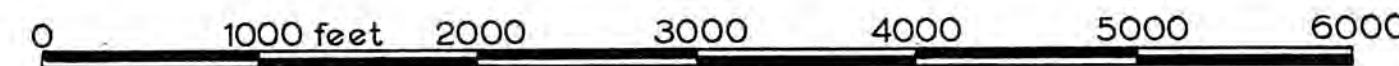
MIDDLE LINES OF BURIED VALLEYS
OVERFLOW CHANNELS

- | | | | | | |
|---------------|---|--------------|----------------|---|--------------|
| BEAMISH GROUP | A | HELLHOLE | CRAGHEAD GROUP | H | FAWSIDE DENE |
| | B | ACTON DENE | | J | HUMBLEBURN |
| | C | HIGH TWIZELL | | K | TRIBLEY |
| | D | ROSE HILLS | CHARLAW GROUP | L | CHARLAW MOOR |
| | E | CLAY SLACK | | M | SACRISTON |
| | F | EDEN HILL | | N | SMITHY DENE |
| | G | HANDENHOWL | | | |

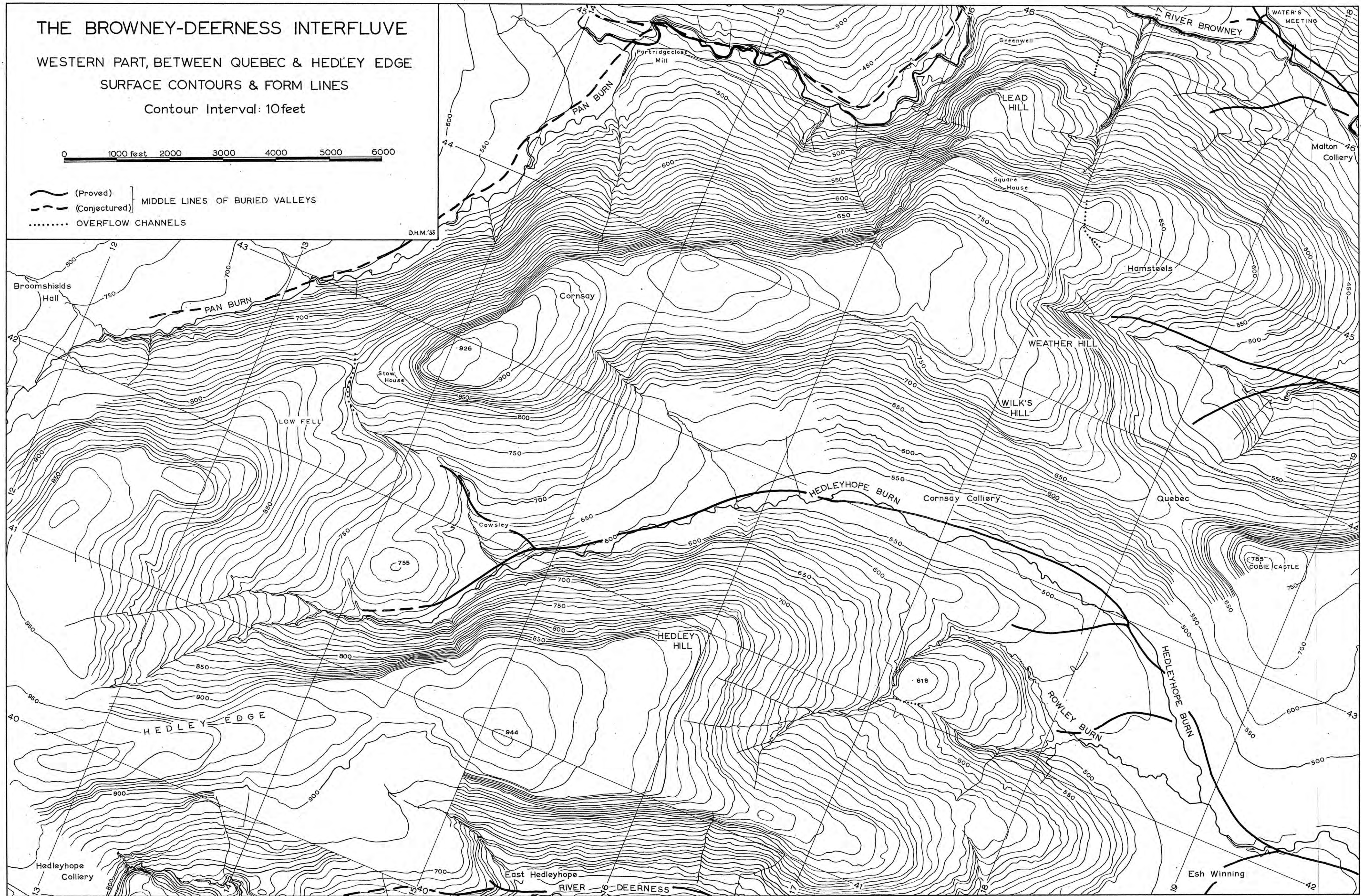


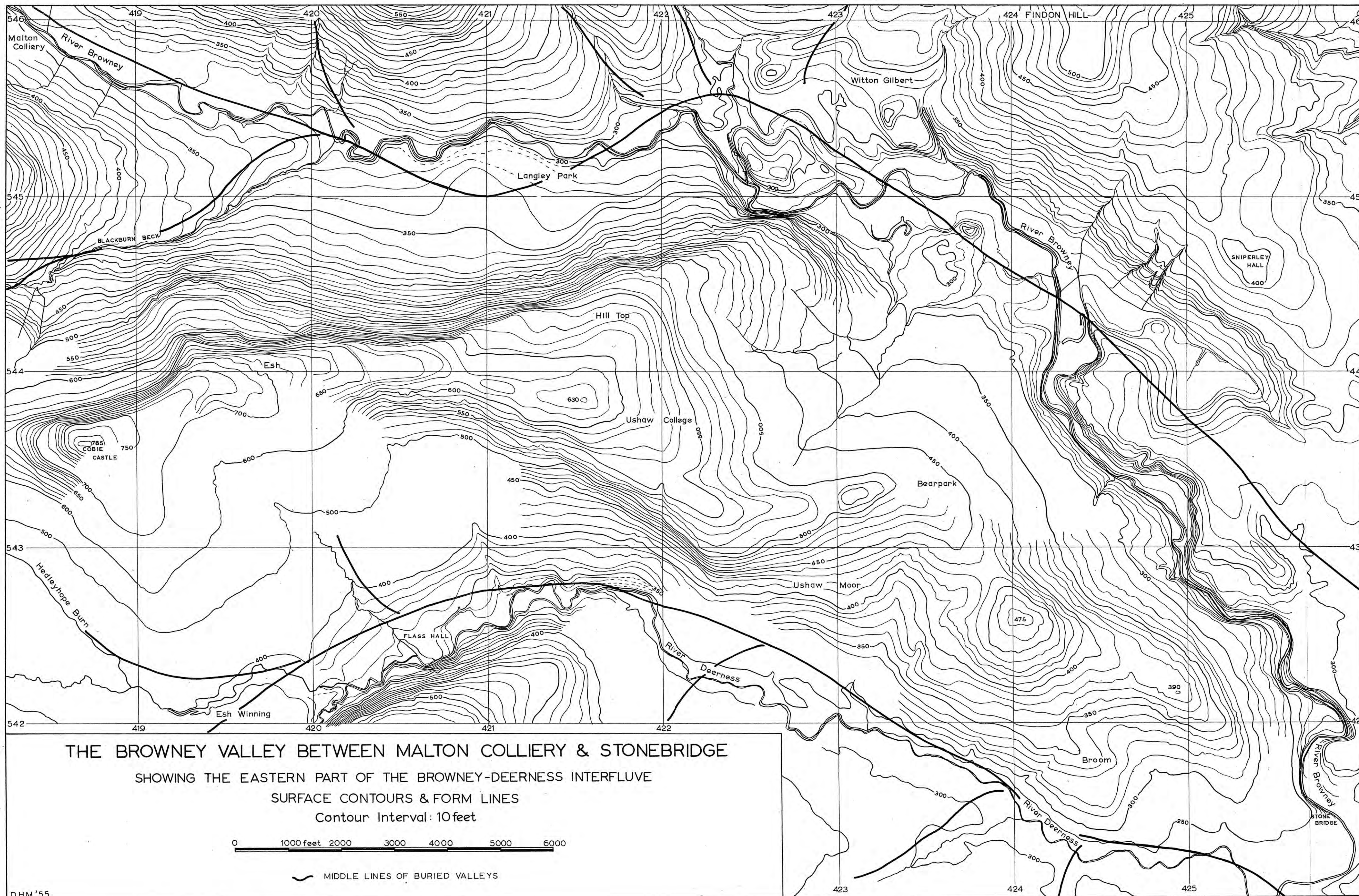
DHM '55

THE BROWNEY-DEERNESS INTERFLUVE
WESTERN PART, BETWEEN QUEBEC & HEDLEY EDGE
SURFACE CONTOURS & FORM LINES
Contour Interval: 10 feet



- (Proved) } MIDDLE LINES OF BURIED VALLEYS
- (Conjectured) }
- OVERFLOW CHANNELS





THE BROWNEY VALLEY BETWEEN MALTON COLLIERY & STONEBRIDGE

SHOWING THE EASTERN PART OF THE BROWNEY-DEERNESS INTERFLUVE

SURFACE CONTOURS & FORM LINES

Contour Interval: 10 feet

THE WEAR VALLEY NEAR LAMBTON CASTLE

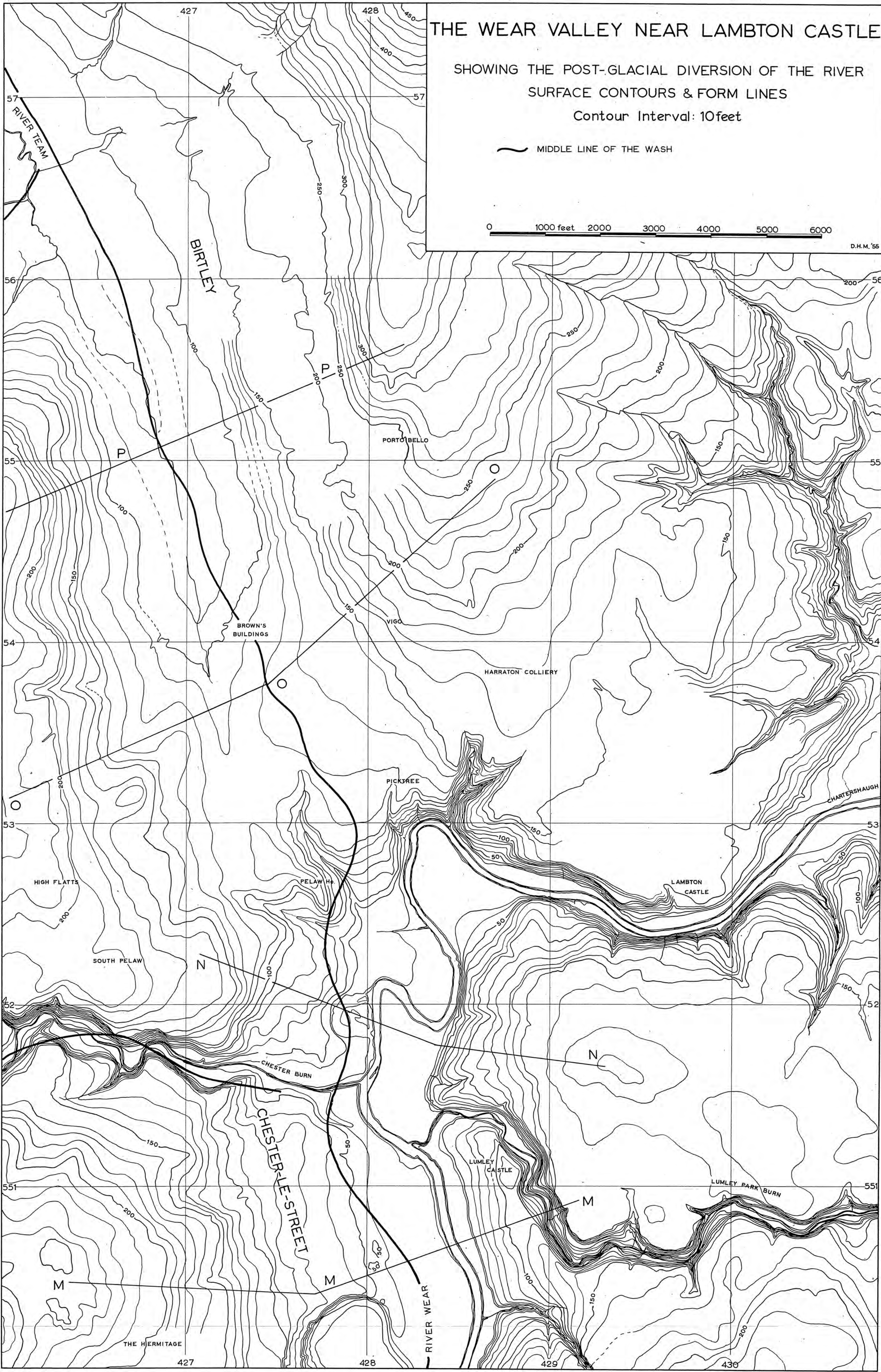
SHOWING THE POST-GLACIAL DIVERSION OF THE RIVER
SURFACE CONTOURS & FORM LINES

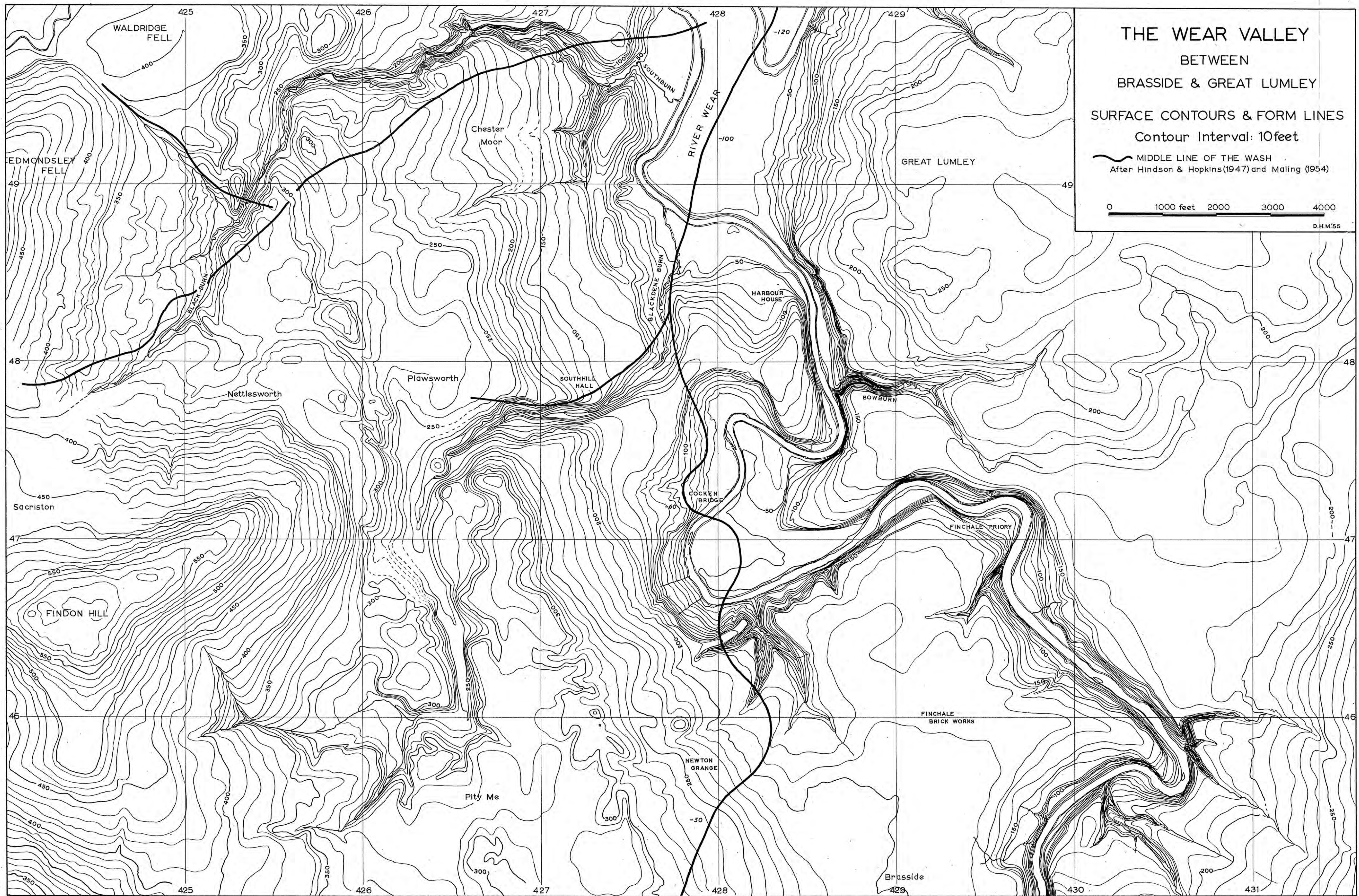
Contour Interval: 10 feet

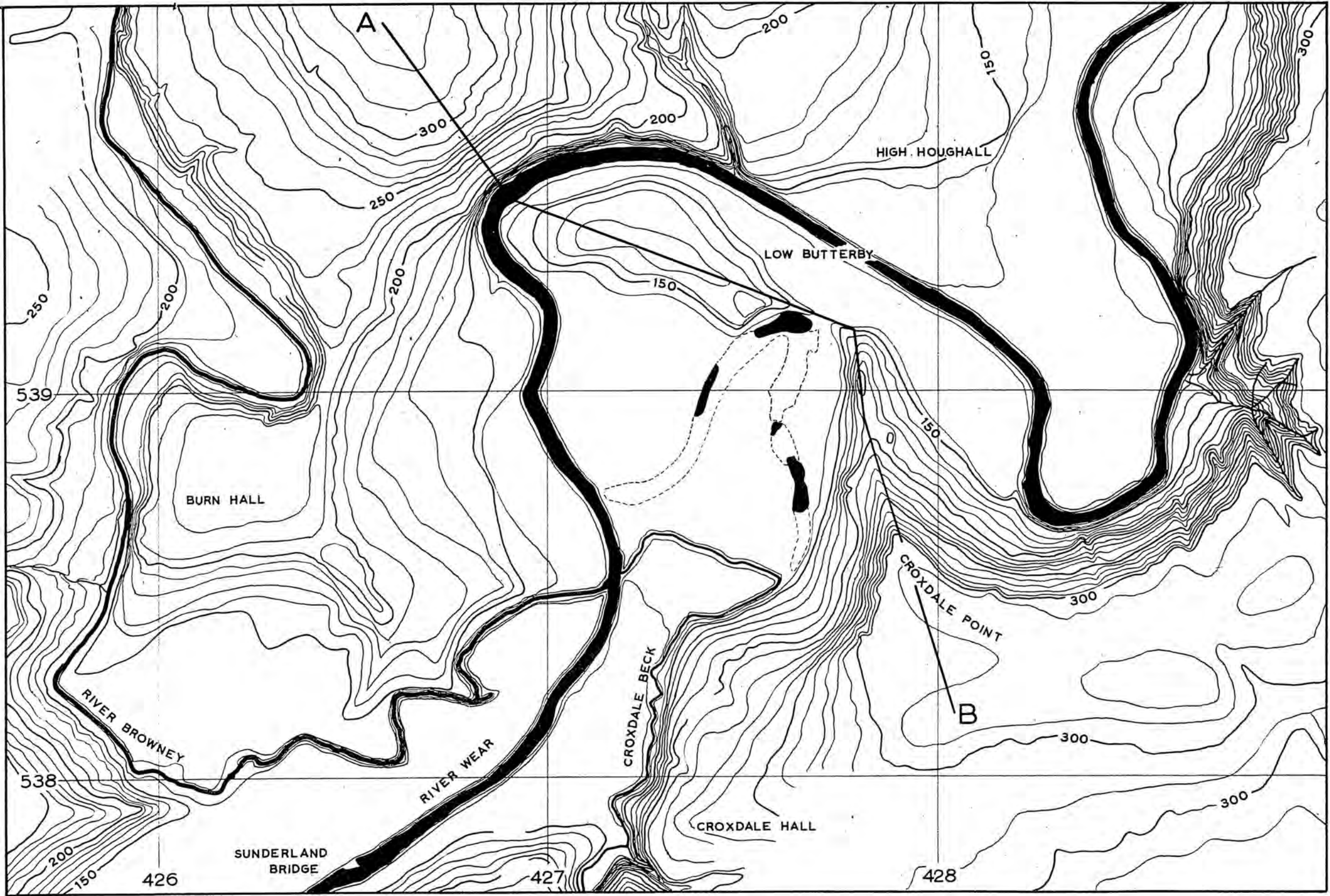
— MIDDLE LINE OF THE WASH

0 1000 feet 2000 3000 4000 5000 6000

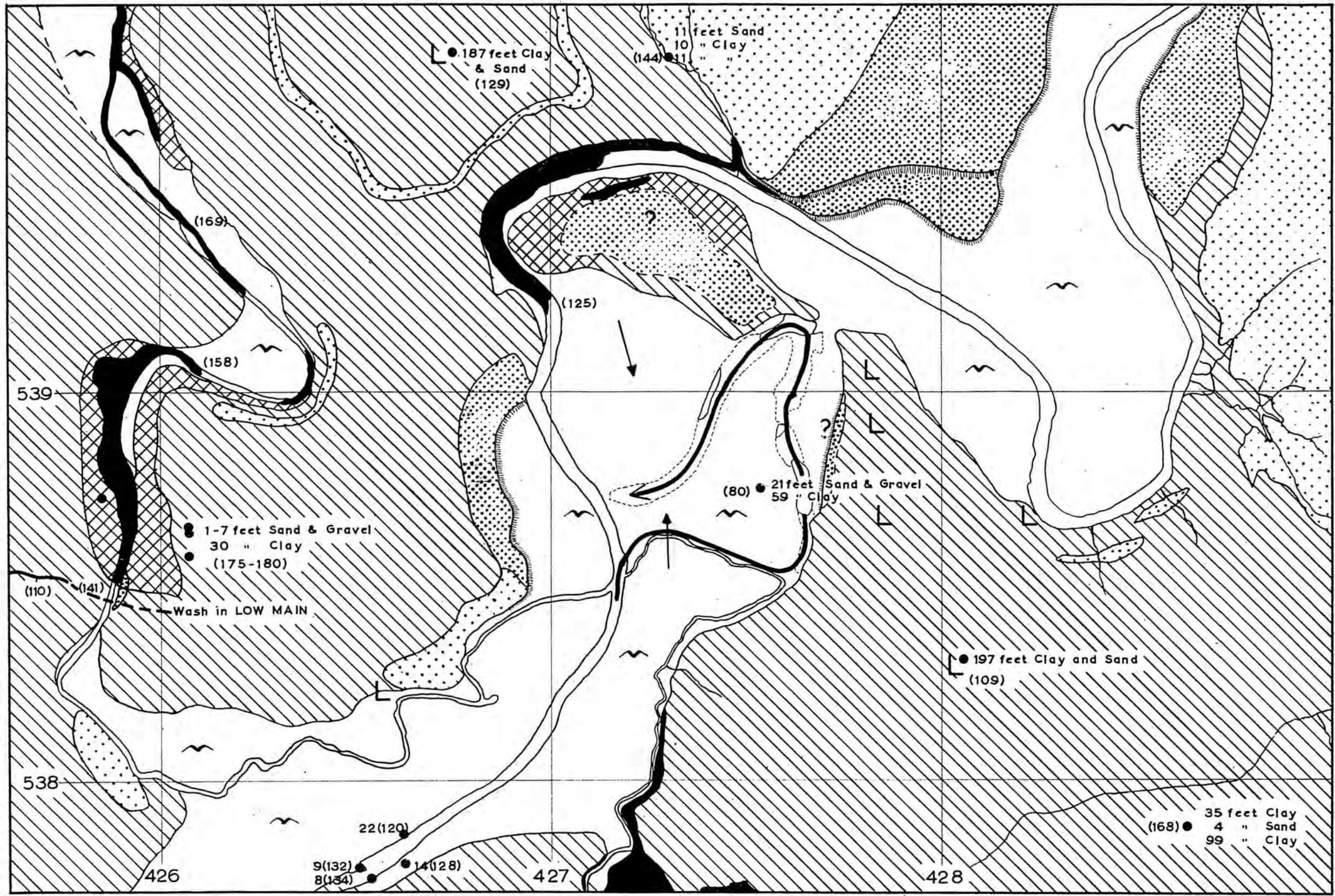
D.H.M. '55





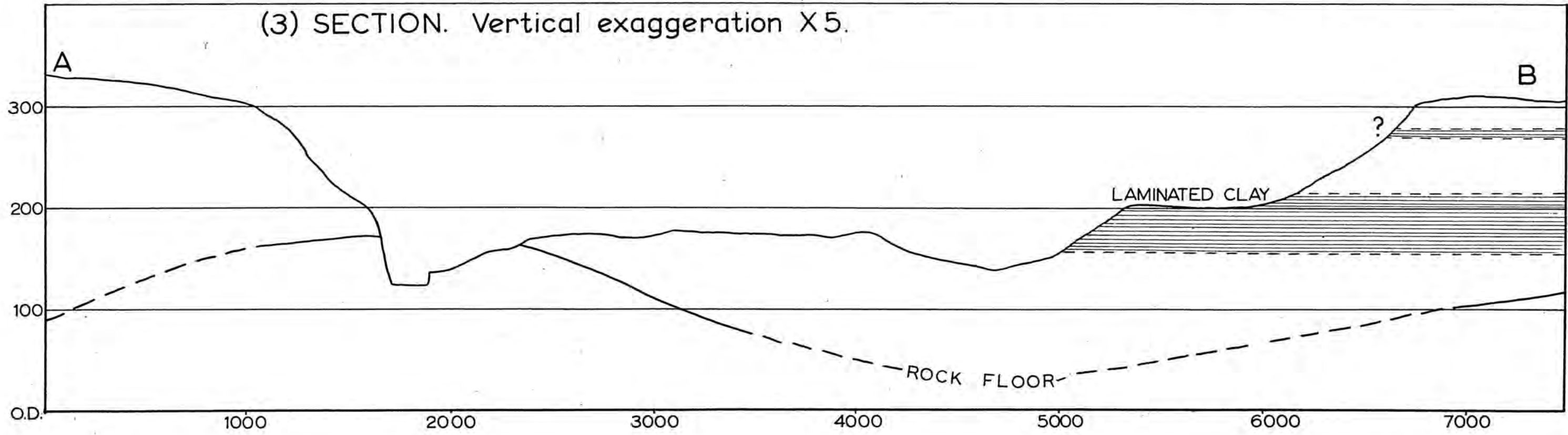


(1) SURFACE CONTOURS & FORM LINES. Contour interval: 10 feet.
Based upon plane-table survey and flood-plain levels, 1953-1954.



(2) DRIFT DEPOSITS & RIVER TERRACES

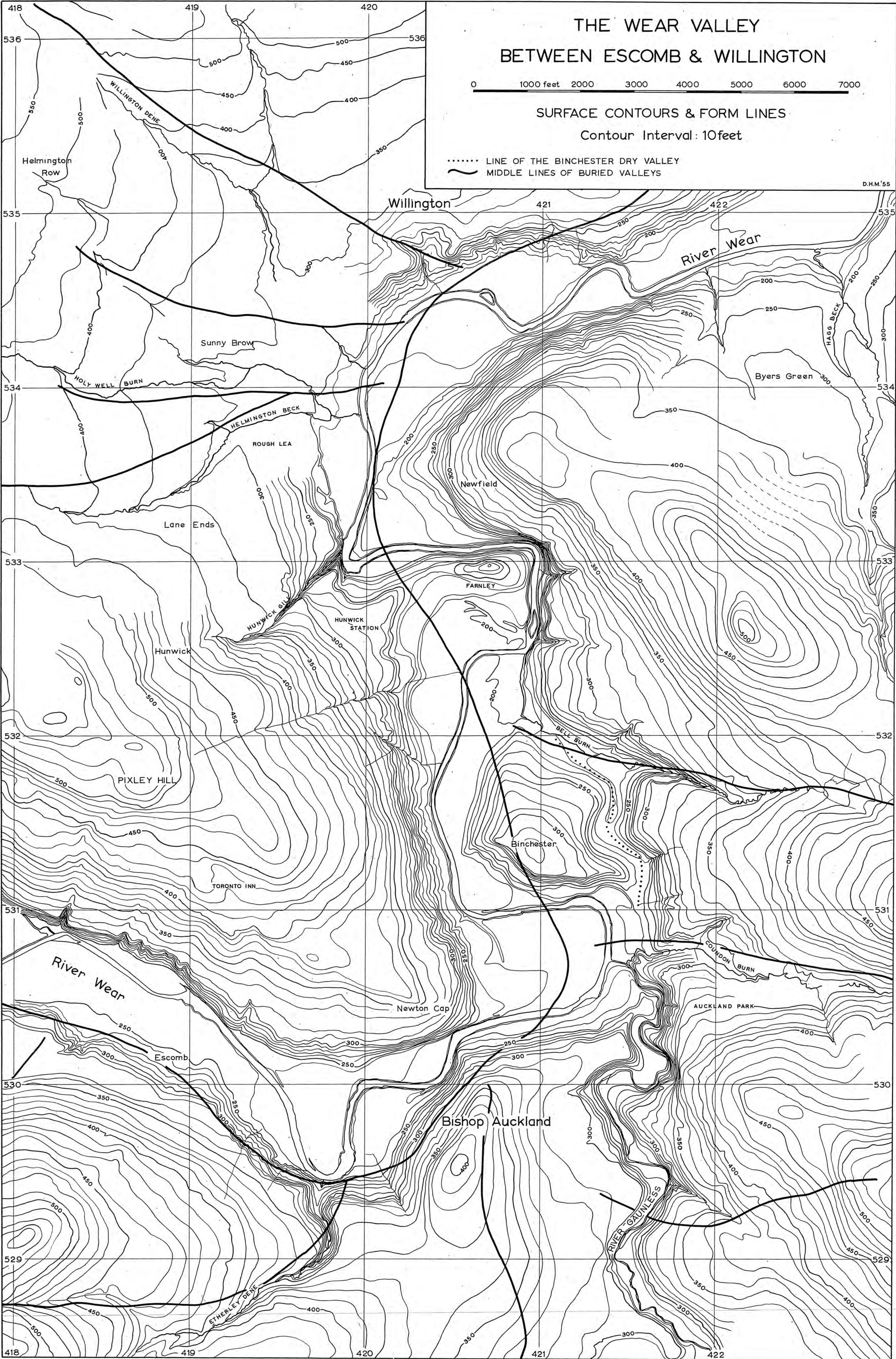
- | | | |
|---|---------------------|---|
| ALLUVIUM | BOULDER CLAY | THIN DRIFT |
| RIVER TERRACE GRAVEL | FLUVIO-GLACIAL SAND | SOLID ROCK AT SURFACE |
| BOREHOLE (Height of rock floor in brackets) | TERRACE SCARP | FORMER COURSE OF RIVER WEAR |
| LAMINATED CLAY EXPOSED OR PROVED BY BORING | | APPARENT DIRECTION OF MEANDER MIGRATION |



(3) SECTION. Vertical exaggeration X5.

THE WEAR VALLEY BETWEEN SUNDERLAND BRIDGE & HIGH HOUGHALL





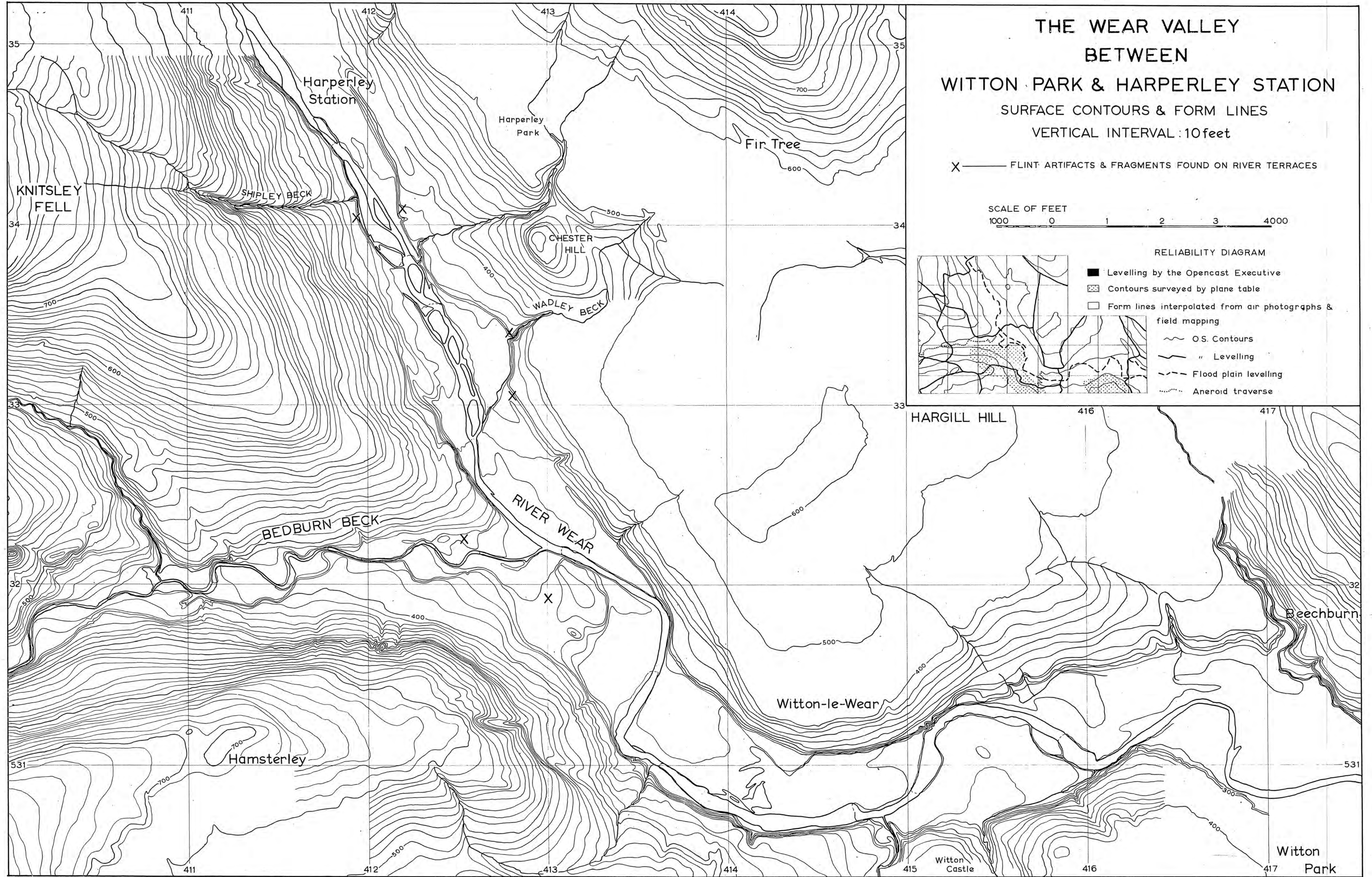
THE WEAR VALLEY
BETWEEN ESCOMB & WILLINGTON

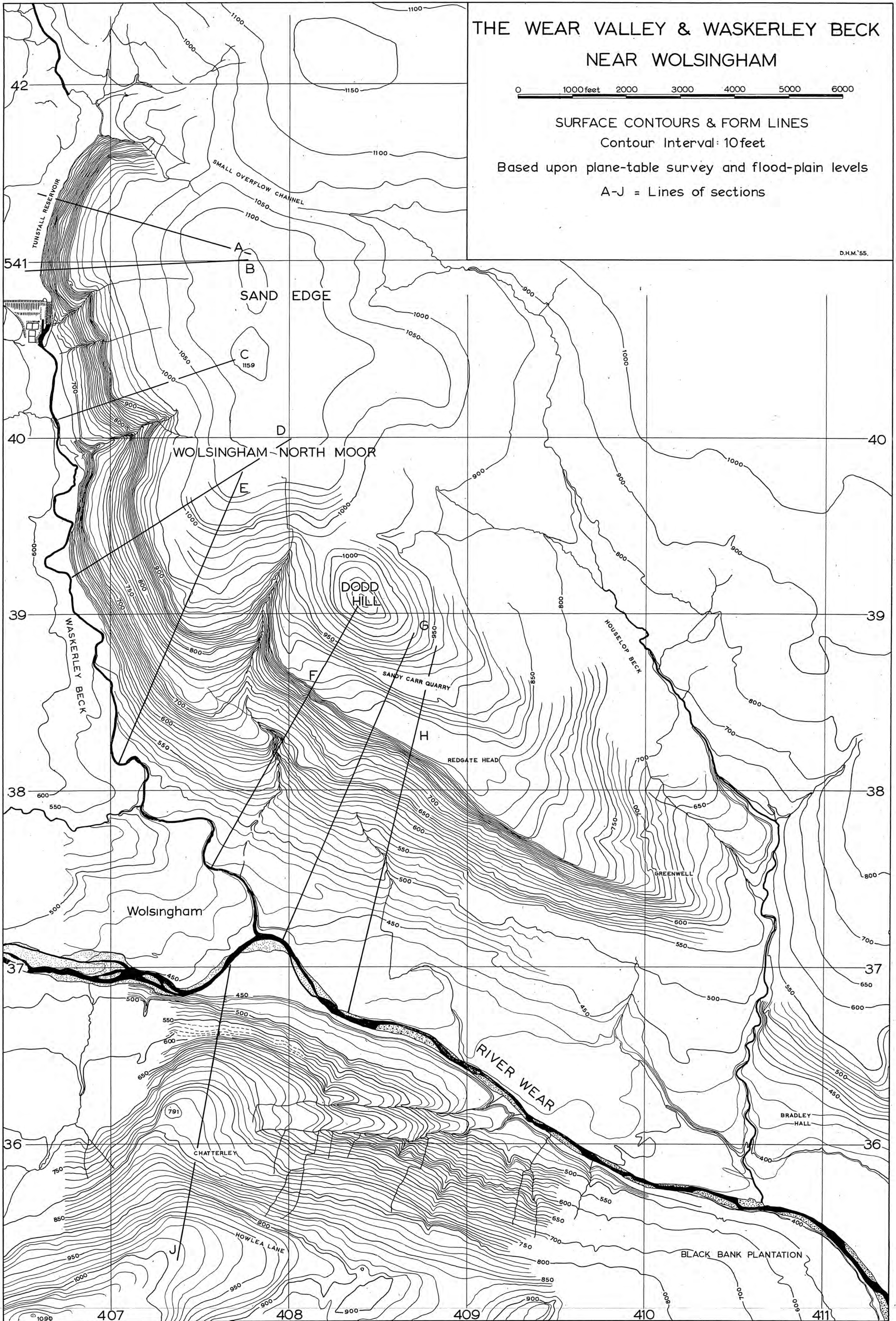
0 1000 feet 2000 3000 4000 5000 6000 7000

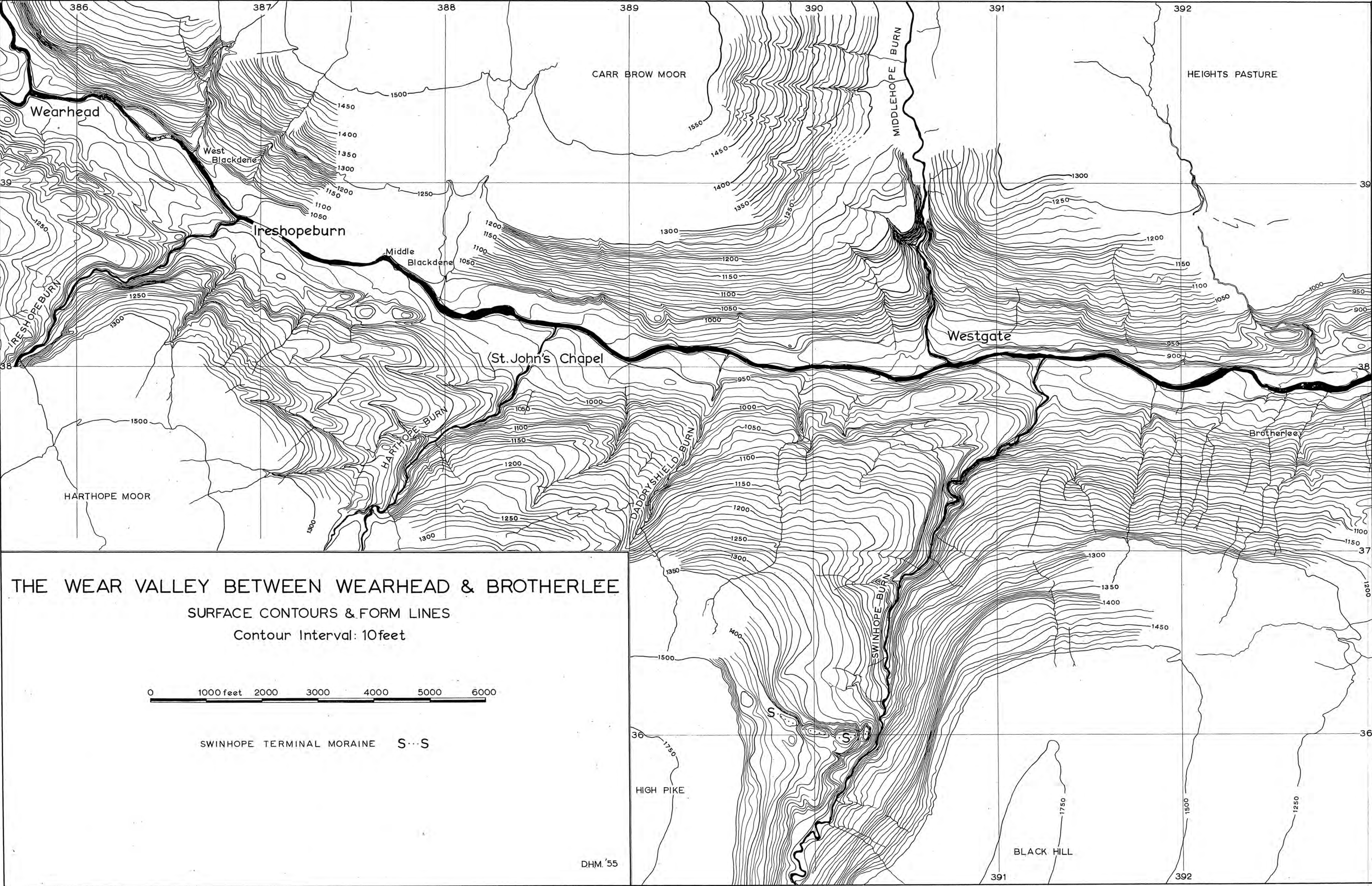
SURFACE CONTOURS & FORM LINES
Contour Interval: 10 feet

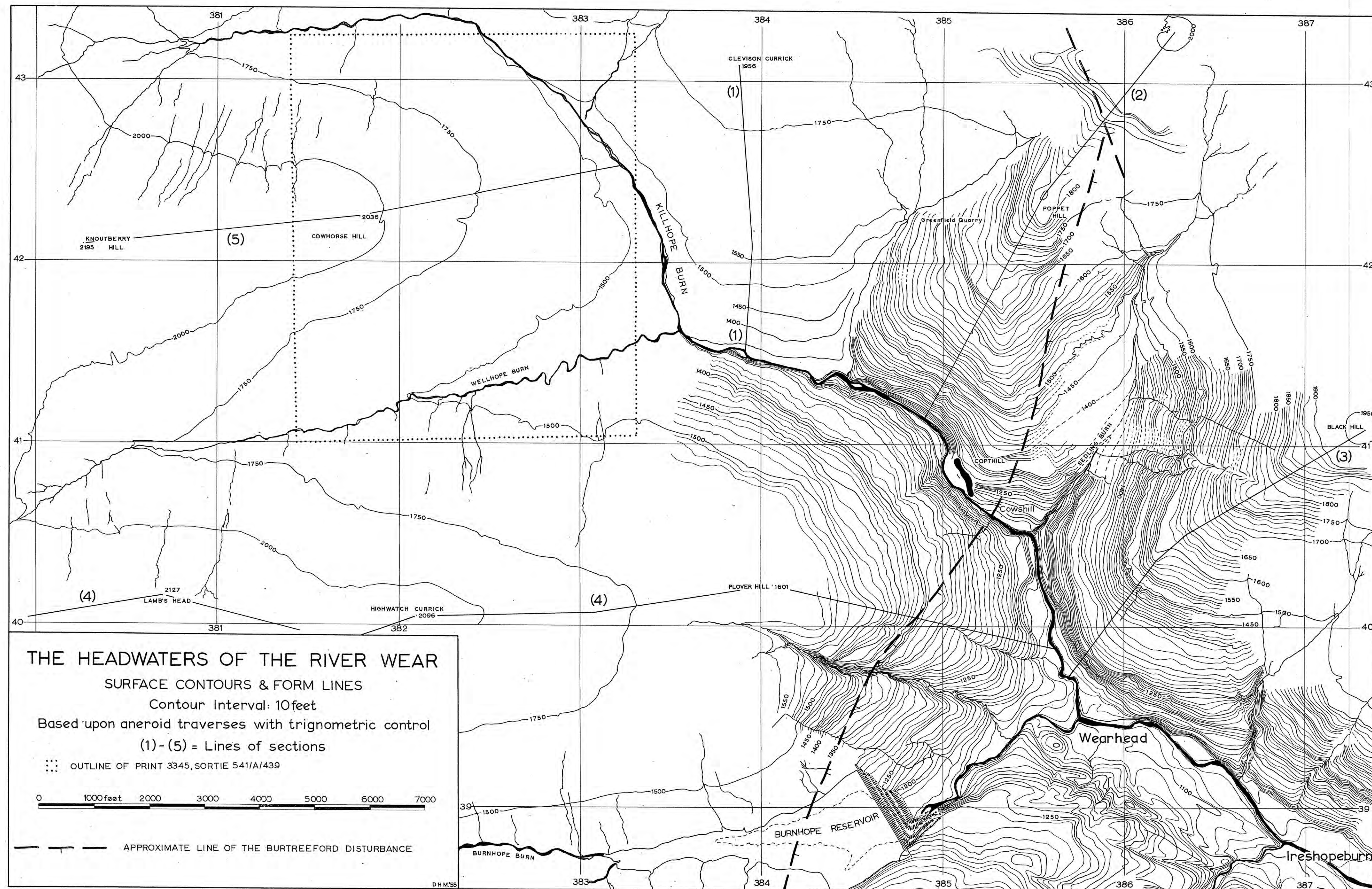
..... LINE OF THE BINCHESTER DRY VALLEY
~ MIDDLE LINES OF BURIED VALLEYS

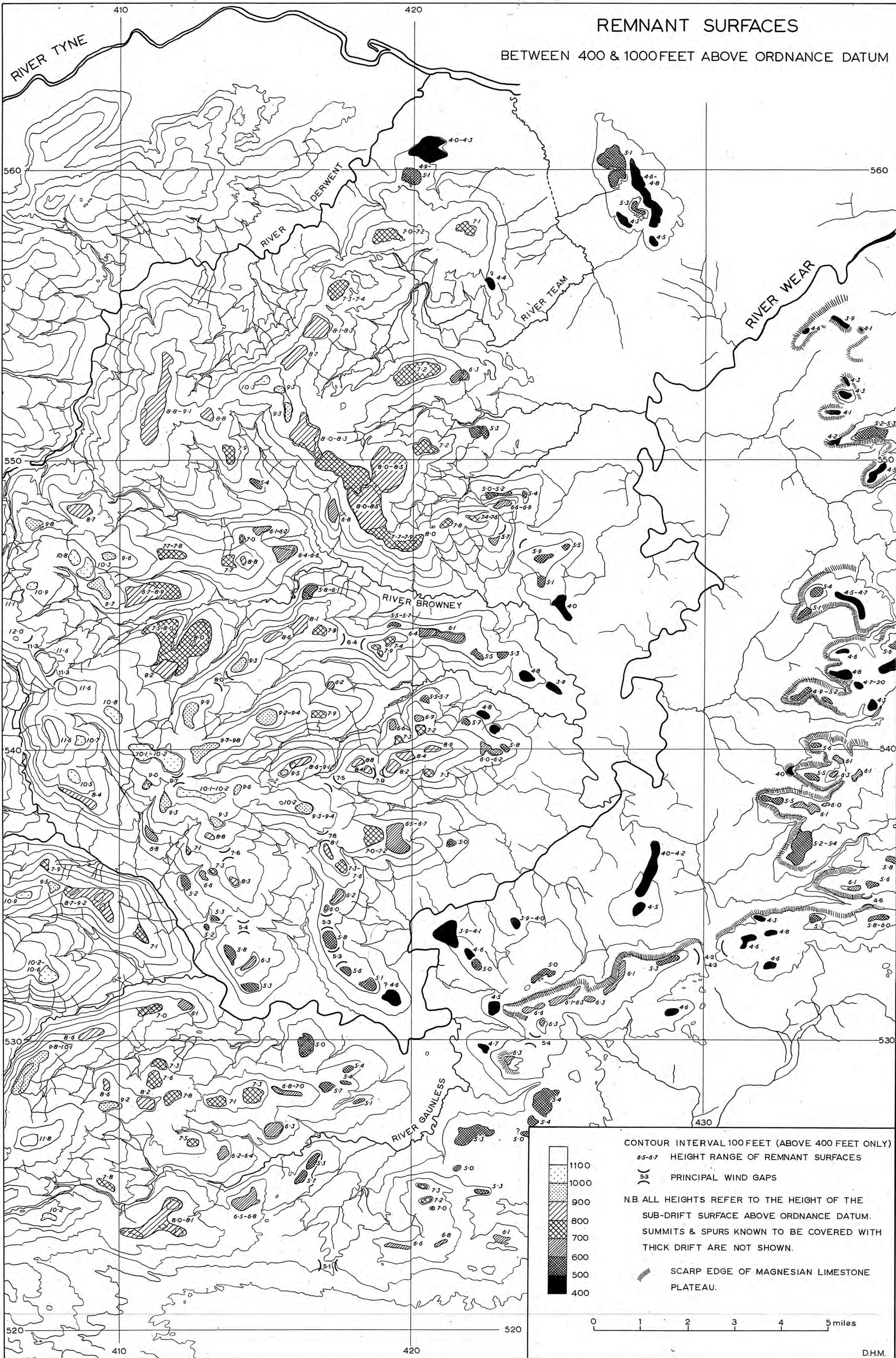
D.H.M.'55

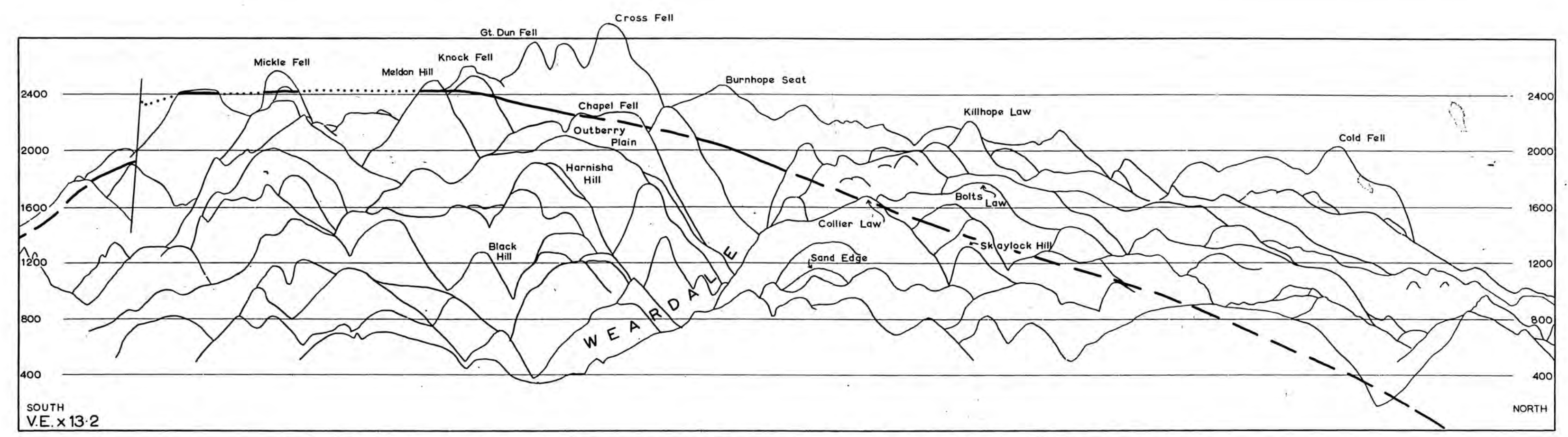






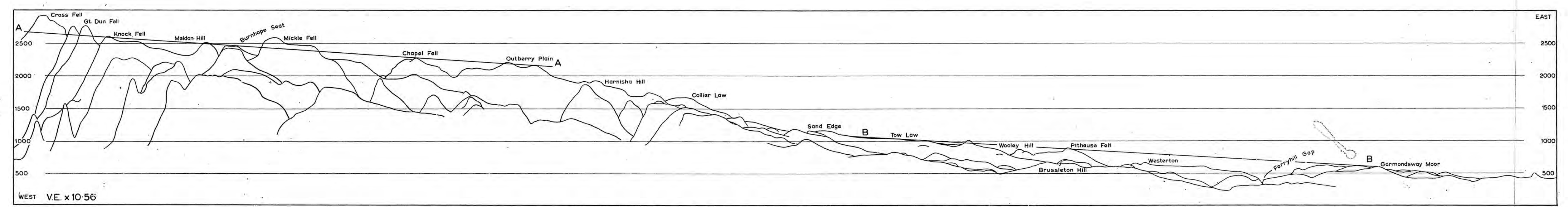




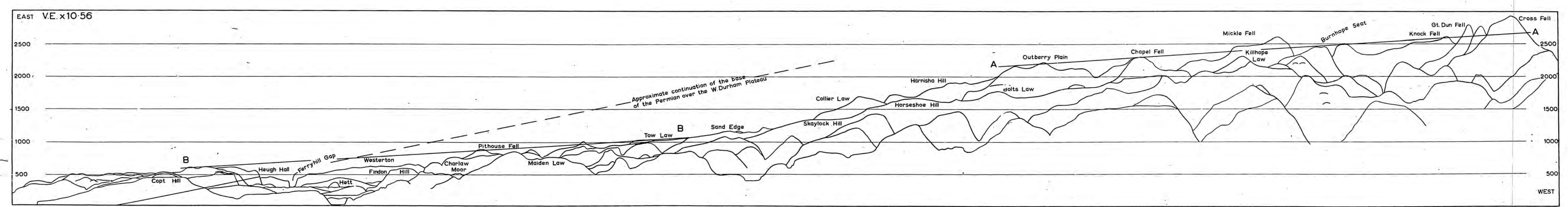


(1) PROJECTED PROFILE OF THE ALSTON BLOCK, VIEWED FROM 410 Kms. EAST. (NAT. GRID)

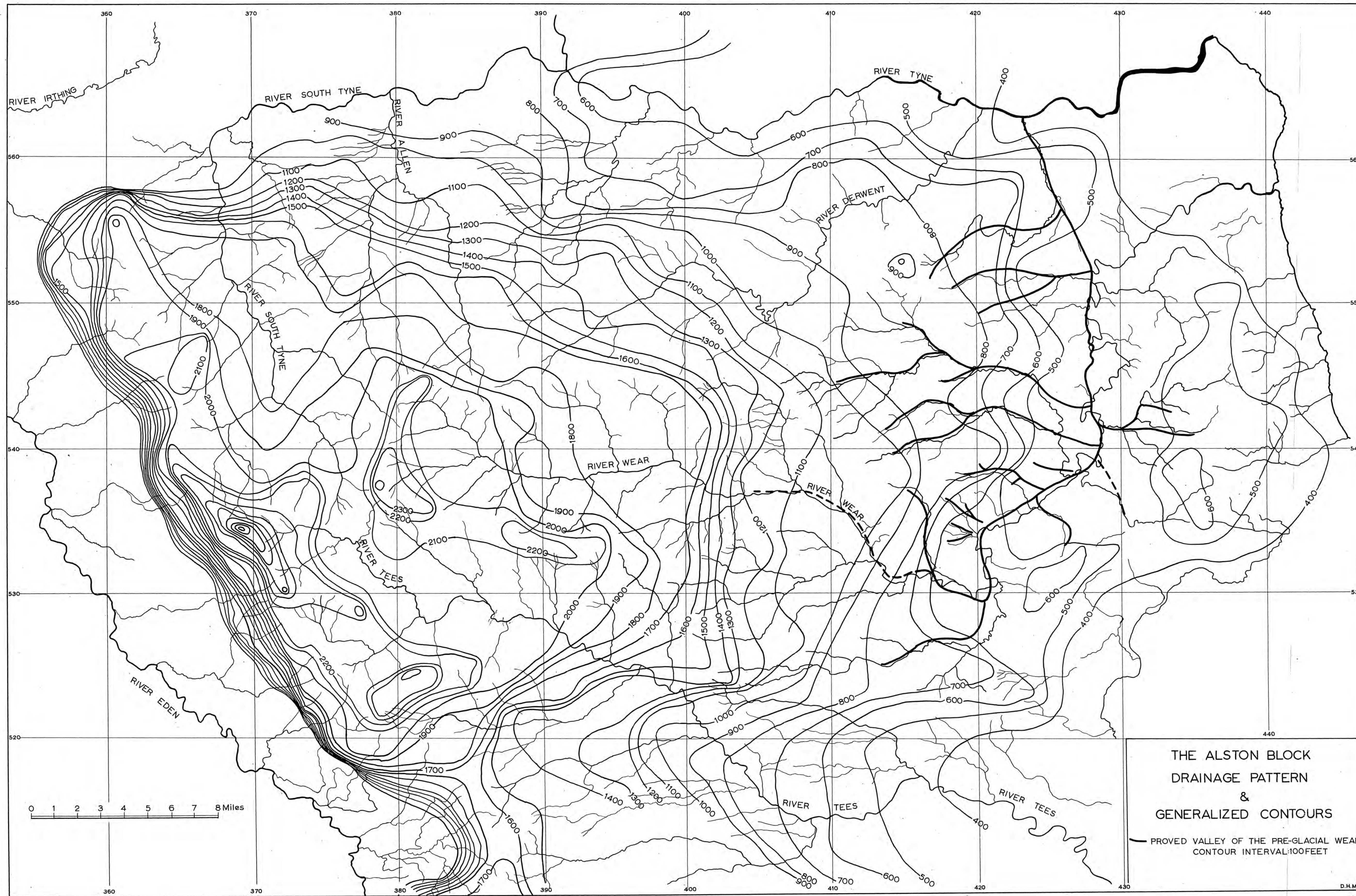
..... APPROXIMATE HORIZON OF GREAT LIMESTONE IN THE WESTERN HILLS (Section through Mickle Fell, Meldon Hill, Burnhope Seat & Killhope Law).

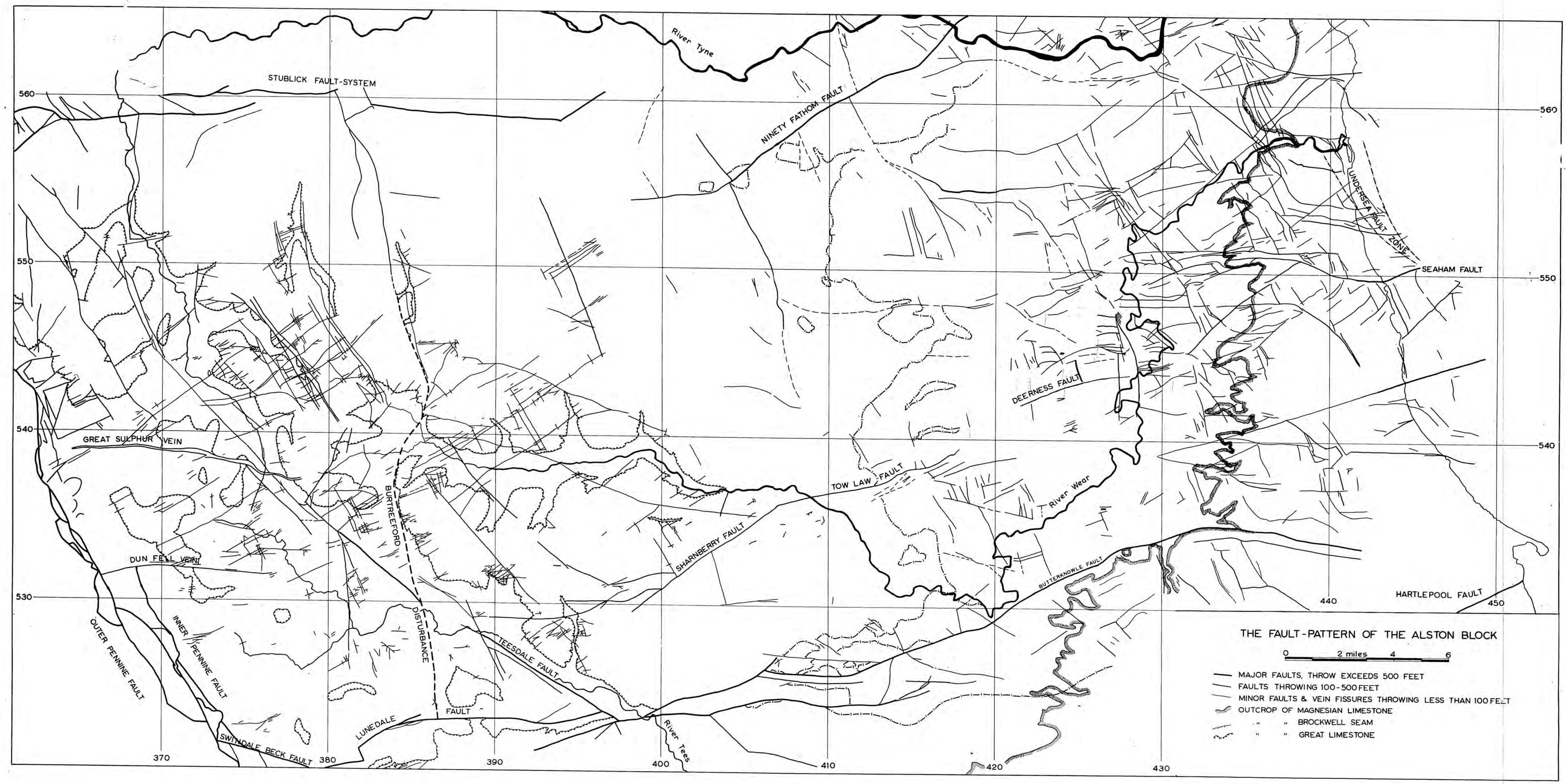


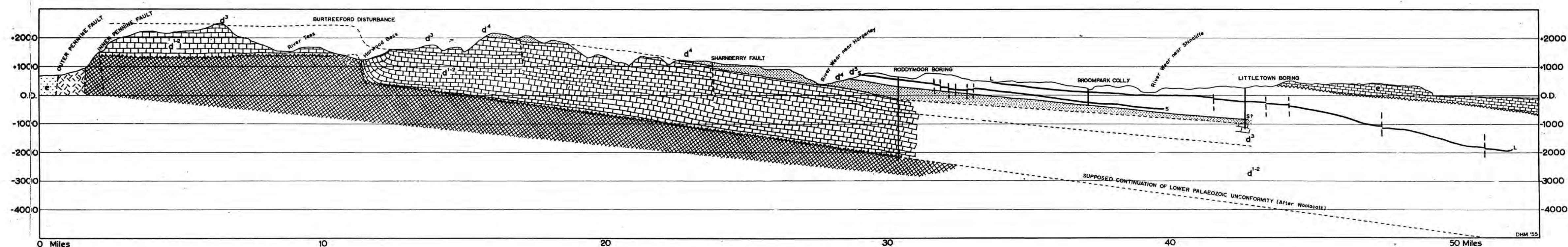
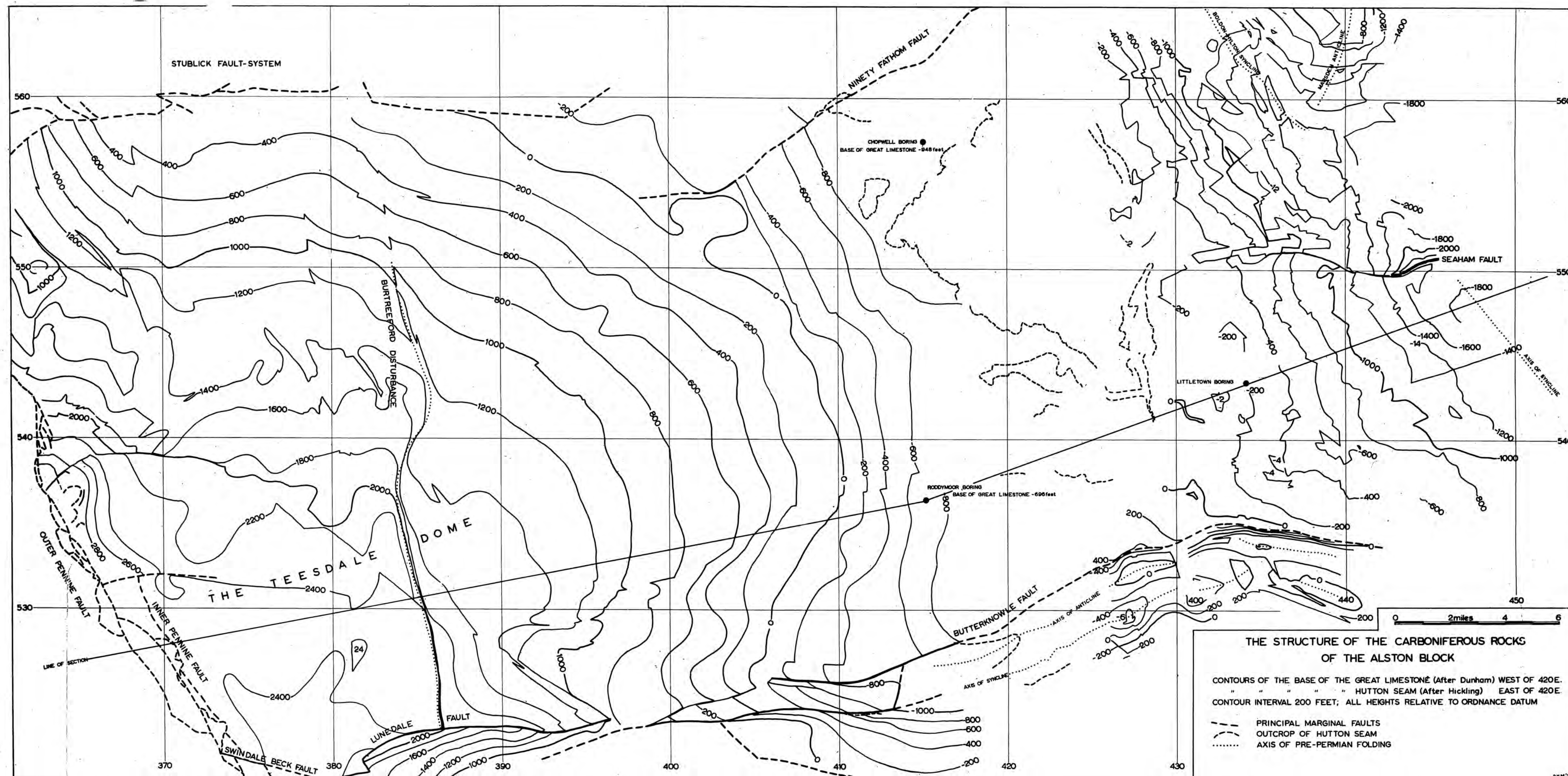
(2) PROJECTED PROFILE OF THE ALSTON BLOCK, VIEWED FROM SOUTH.



(3) PROJECTED PROFILE OF THE ALSTON BLOCK, VIEWED FROM 550 Kms. NORTH. (NAT. GRID)







KEY TO DETAILED TOPOGRAPHICAL & GEOLOGICAL MAPS

-  DETAILED GEOLOGICAL SHEETS; PLATES 19-23
-  DETAILED TOPOGRAPHICAL SHEETS; PLATES 8-18

0 5 10 miles

