UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

83°07'30"
37°37'30"
5'
(SALYERSVILLE SOUTH)
2'30"
83°00'
37°37'30"

35'
32'30"
37°30'
83°07'30"
5'
(TROUBLESOME 1:62 500)
2'30"
INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.
M R-2985
37°30'
83°00'

Base from U. S. Geological Survey map of
Tiptop quadrangle, 1951

Scale 1:24,000

1 0 1 Mile

Contour interval 20 feet
Datum is mean sea level

Geology by Stewart W. Welch

GEOLOGIC MAP OF THE TIPTOP QUADRANGLE, KENTUCKY

EXPLANATION FOR MAP

Breathitt formation

PENNSYLVANIAN

U
D
Fault, approximately located
Short dashes where inferred;
U, *upthrown side;* D, *downthrown side*

860
880
Structure contours drawn on base of Magoffin beds of Morse
Contours dashed where approximately located or projected from other key beds. Contour interval 20 feet. Datum is mean sea level

G
Locality where different segments of the stratigraphic section were measured

sk
Outcrop line of Skyline coal
Lower Skyline coal where bed is split

fu
Outcrop line of Fugate coal

oa
Outcrop line of Oakley coal
Upper split where bed is split

pr
Outcrop line of Prater coal

mg
Outcrop line of Mogoffin beds of Morse

fc
Outcrop line of Fire Clay coal

Outcrop lines of key coal beds in the Breathitt formation
Solid lines show outcrop where less than 1/4 mile from control point. Dashed lines show outcrop where more than 1/4 mile from control point. Lines are not shown where control is lacking

×35
Location of graphic coal sections
Sections are numbered as follows:

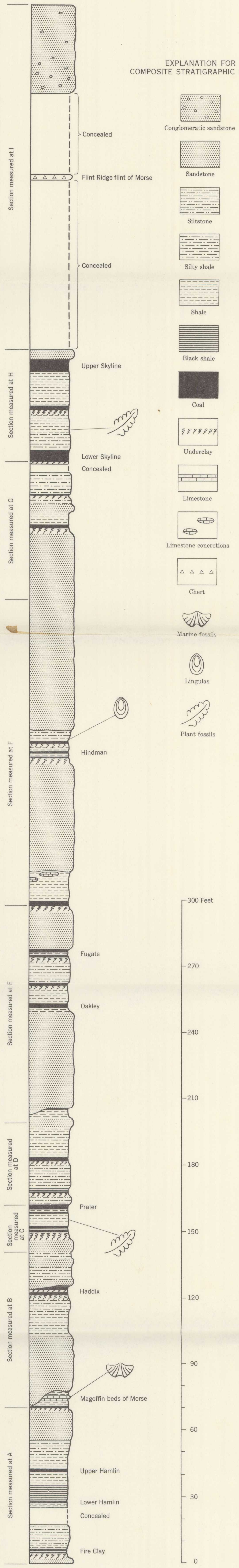
1–5	*Fire Clay coal*
6–10	*Fire Clay Rider coal*
11–30	*Haddix coal*
31–54	*Prater coal*
55–78	*Oakley coal*
79–102	*Fugate coal*
103–118	*Skyline coal*

×
Location of mine, prospect, or outcrop

o
Location of core hole

1°
MAGNETIC NORTH
TRUE NORTH

APPROXIMATE MEAN DECLINATION 1951



EXPLANATION FOR COMPOSITE STRATIGRAPHIC SECTION

Conglomeratic sandstone

Sandstone

Siltstone

Silty shale

Shale

Black shale

Coal

Underclay

Limestone

Limestone concretions

Chert

Marine fossils

Lingulas

Plant fossils

COMPOSITE STRATIGRAPHIC SECTION OF THE BETTS MANN BRANCH AREA