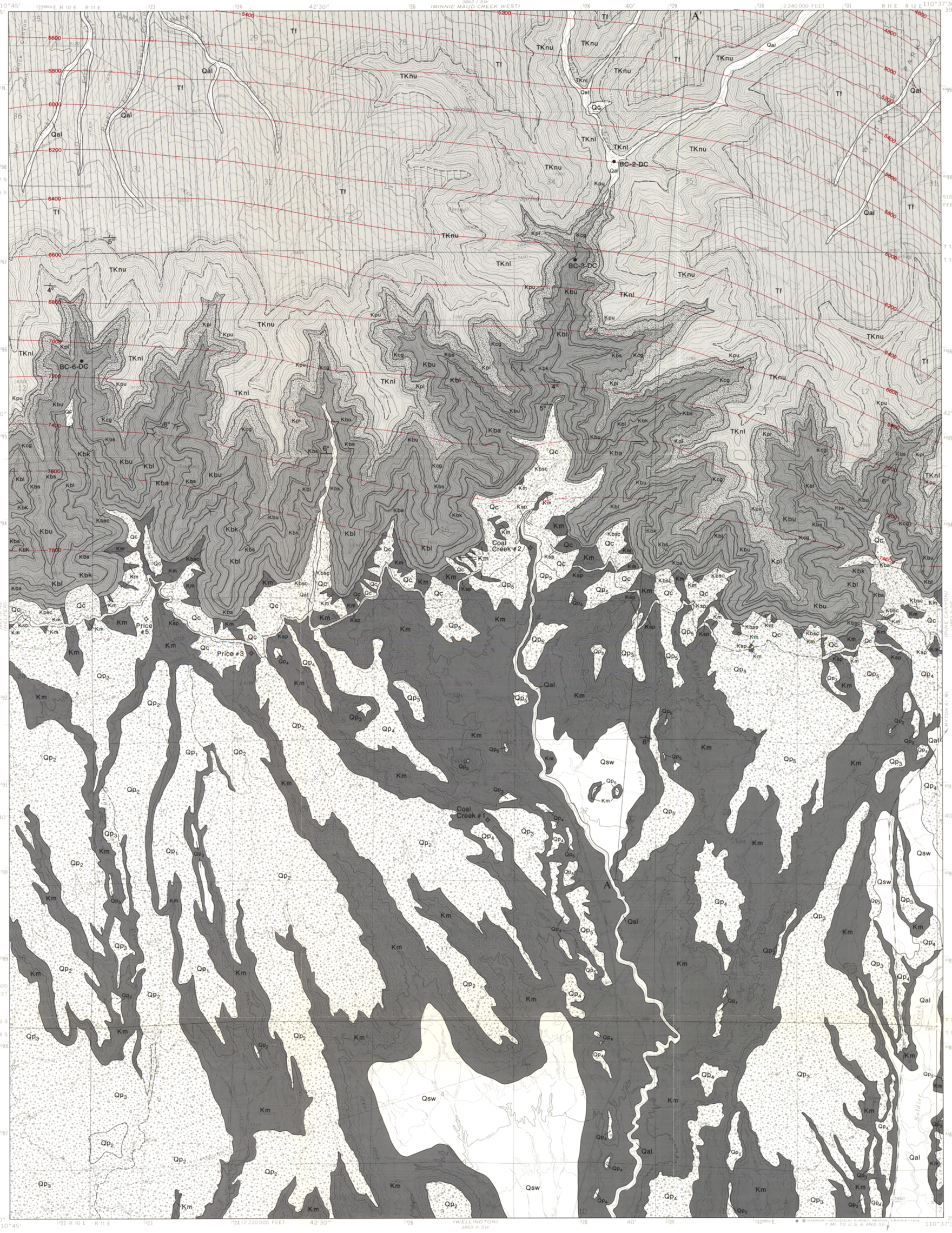
STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
UTAH GEOLOGICAL AND MINERAL SURVEY

Published and sold by
UTAH GEOLOGICAL AND MINERAL SURVEY
Genevieve Atwood, Director
606 Black Hawk Way
Salt Lake City, Utah 84108



SYSTEM	SERIES	FORMATION	SYMBOL	LITHOLOGY	THICKNESS meters (feet)	DESCRIPTION
QUATERNARY		Unconsolidated deposits	Qp		0-25 (0-75)	alluvium, colluvium, slopewash, pediment gravels
TERTIARY	Eocene	Flagstaff Formation	Tf		86 (280)	fluvial, lacustrine, mudstone, shale, sandstone, limestone, yellow-orange, medium to dark gray
TERTIARY	Paleocene	North Horn Formation	TKnh		320 (1040)	fluvial, lacustrine, mudstone, shale, siltstone, sandstone, limestone, minor conglomerate, variegated yellow-orange, gray-orange
TERTIARY	? Danian					
CRETACEOUS	Maastrichtian	Price River Formation	Kpr		83 (270)	fluvial, sandstone, siltstone, shale, medium gray to gray-brown
CRETACEOUS	Maastrichtian	Castlegate Sandstone	Kcg		77 (250)	fluvial, sandstone, minor shale, medium gray-brown
CRETACEOUS	Campanian	Blackhawk Formation	Kb	S R G K Cg	225 (900)	littoral, fluvial, sandstone, shale, mudstone, coal, pale yellow-orange and light gray
CRETACEOUS	Campanian	Mancos Shale (tongue)	Km		40 (120)	shale, siltstone, medium gray
CRETACEOUS	Campanian	Spring Canyon Member	Kb		40 (120)	marine, siltstone, shale, minor sandstone
CRETACEOUS	Campanian	Mancos Shale (tongue)	Km		106 (345)	marine, shale, siltstone, medium gray
CRETACEOUS	Campanian	Star Point Sandstone	Ksp		5-25(16-80)	sandstone, siltstone
CRETACEOUS	Campanian	Mancos Shale	Km		1540 (5000)	marine, shale, siltstone, minor sandstone, medium gray and brown-gray

EXPLANATION

QUATERNARY
- Qal — Alluvium
- Qc — Colluvium
- Qsw — Slope wash
- Qp — Shown in cross section only
- Qp_{1-5} — Pediment gravels (5 levels)

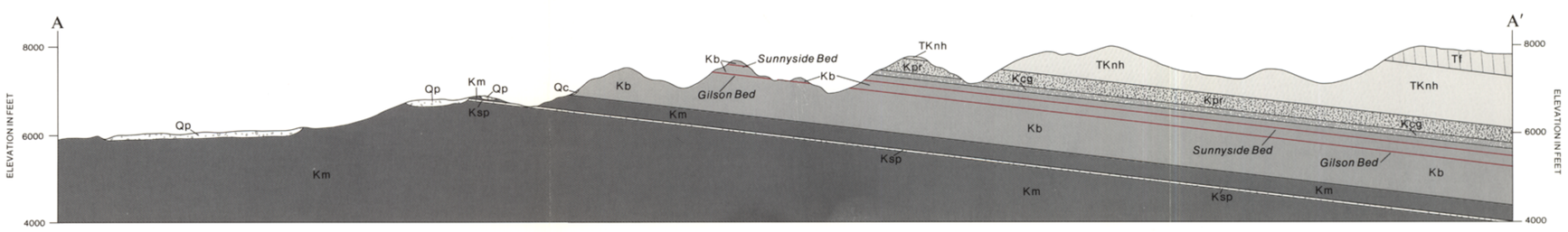
UNCONFORMITY

TERTIARY
- Tf — Flagstaff Limestone
- North Horn Formation
  - TKnu — upper member
  - TKnl — lower member
  - TKnh — Shown in cross section only

CRETACEOUS
- Price River Formation
  - Kpu — upper member
  - Kpl — lower member
  - Kpr — Shown in cross section only
- Kcg — Castlegate Sandstone
- Blackhawk Formation
  - Kbu — upper mudstone member
  - Kbs — Sunnyside Member
  - Kbl — lower mudstone member
  - Kbk — Kenilworth Member
  - Kba — Aberdeen Member
  - Kbsc — Spring Canyon Member
  - Kb — Shown in cross section only
- Ksp — Star Point Sandstone
- Mancos Shale
  - Km — Undifferentiated

SYMBOLS

- Contact — *Dashed where inferred*
- Mine Portal
- Structure Contour — *Dashed where inferred; Drawn at the top of the Sunnyside Coal; contour interval 200 ft*
- Drill hole (Petroleum)
- Drill hole (Coal)
- Dip and Strike



LOCATION MAP

MAP 76

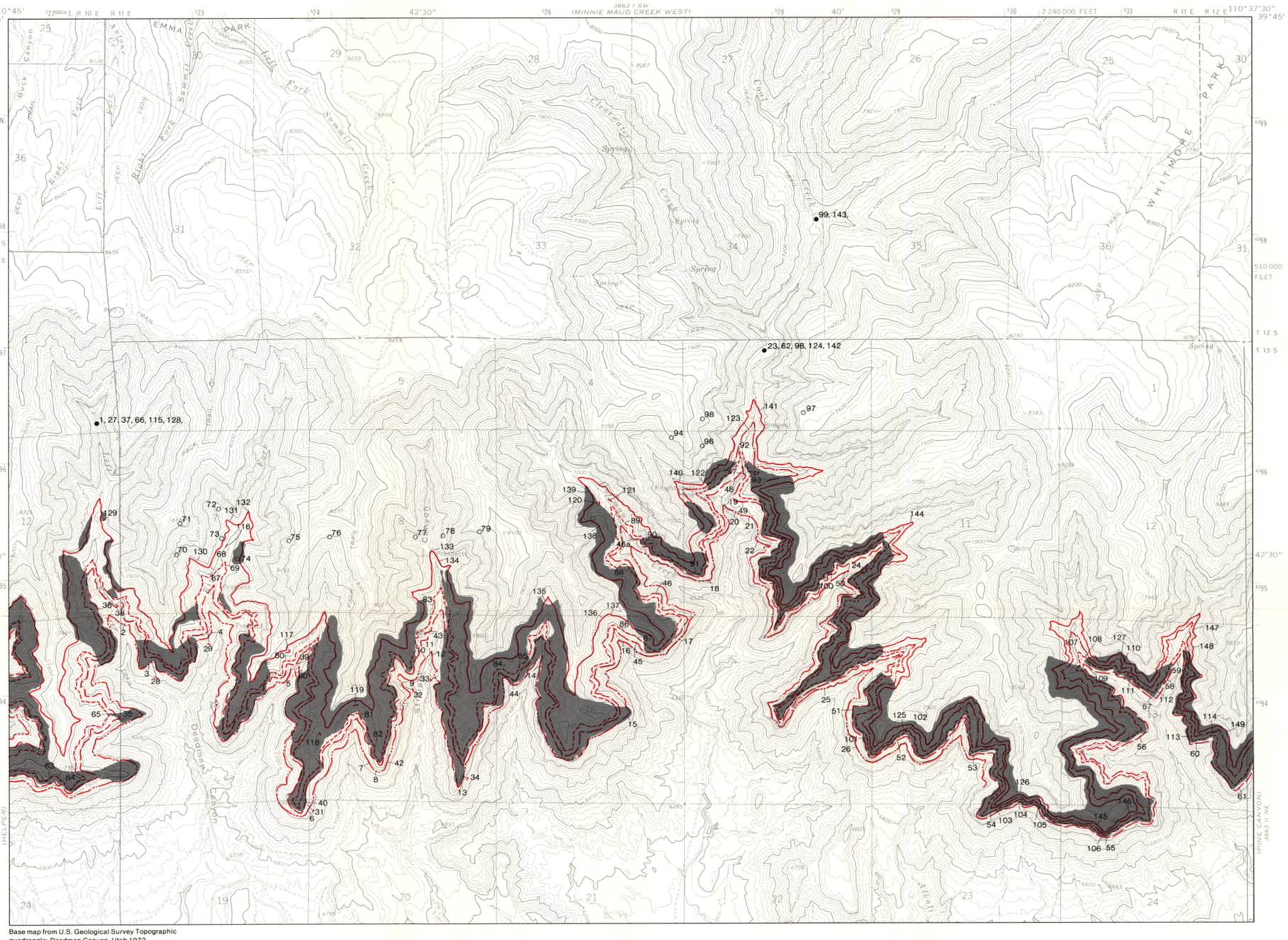
GEOLOGIC MAP AND COAL RESOURCES OF DEADMAN CANYON QUADRANGLE, CARBON COUNTY, UTAH

1985

By Mark A. Nethercott

Klaus D. Gurgel, Cartographic Editor
Jessie S. Roy, Patricia H. Speranza, Cartographers

COAL OUTCROP AND SECTION MAP OF DEADMAN CANYON QUADRANGLE, CARBON COUNTY, UTAH



Base map from U.S. Geological Survey Topographic quadrangle: Deadman Canyon, Utah 1972.

SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETRE

CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

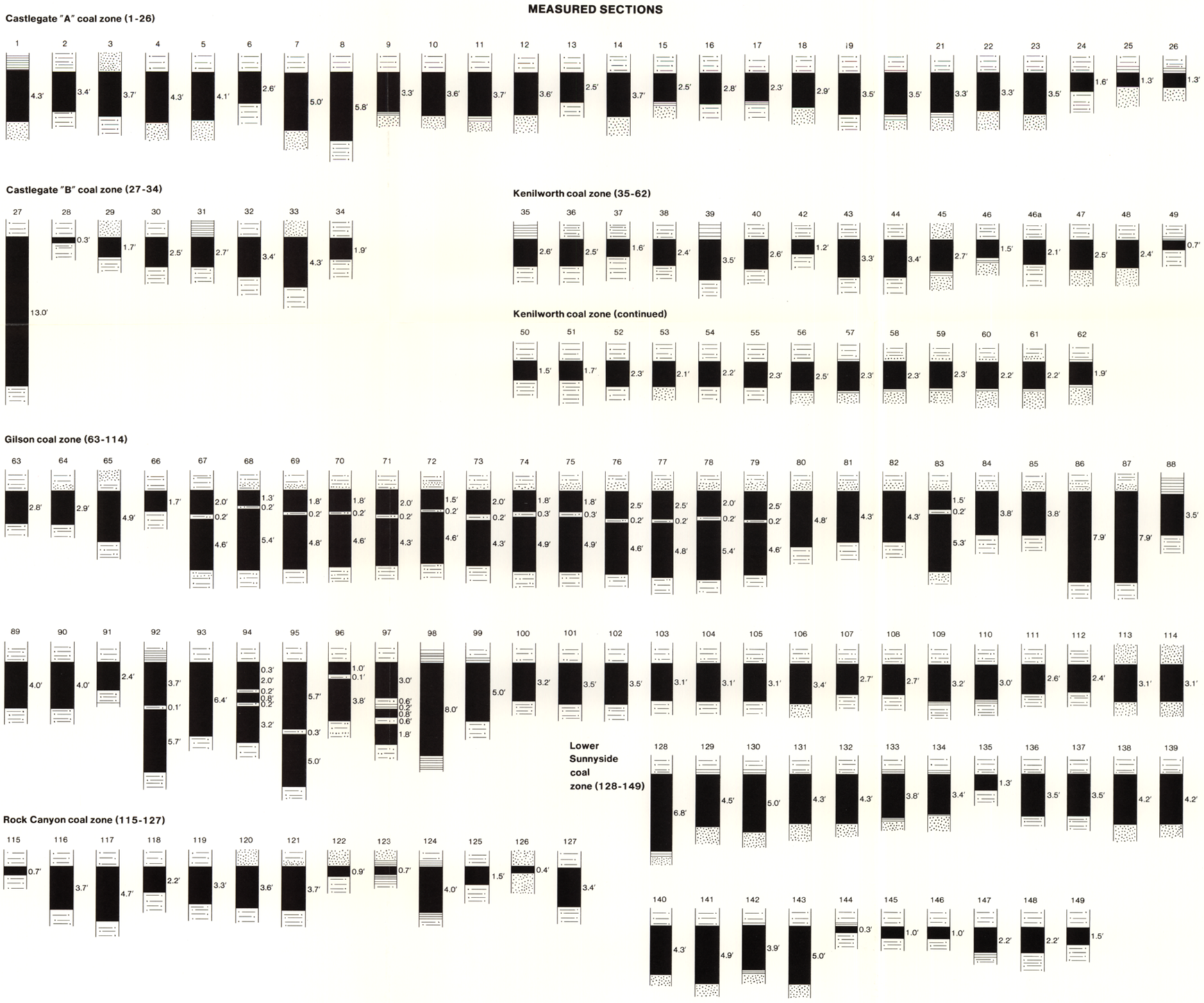
GN MN 0°12′ 4 MILS 15½° 276 MILS

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

UTAH

QUADRANGLE LOCATION

MEASURED SECTIONS



EXPLANATION

Lower Sunnyside coal outcrop

Rock Canyon coal outcrop

Rock Canyon isolated outcrop
(Measured sections 116-121)

Gilson coal outcrop

Kenilworth coal outcrop

Castelgate "A" coal outcrop

Castlegate "B" isolated outcrop
(Measured sections 28-34)

Area indicating oxidation of rock by outcrop burning of coal

59 —
Location of coal measurement

Location of coal measurement—subsurface

Drill hole