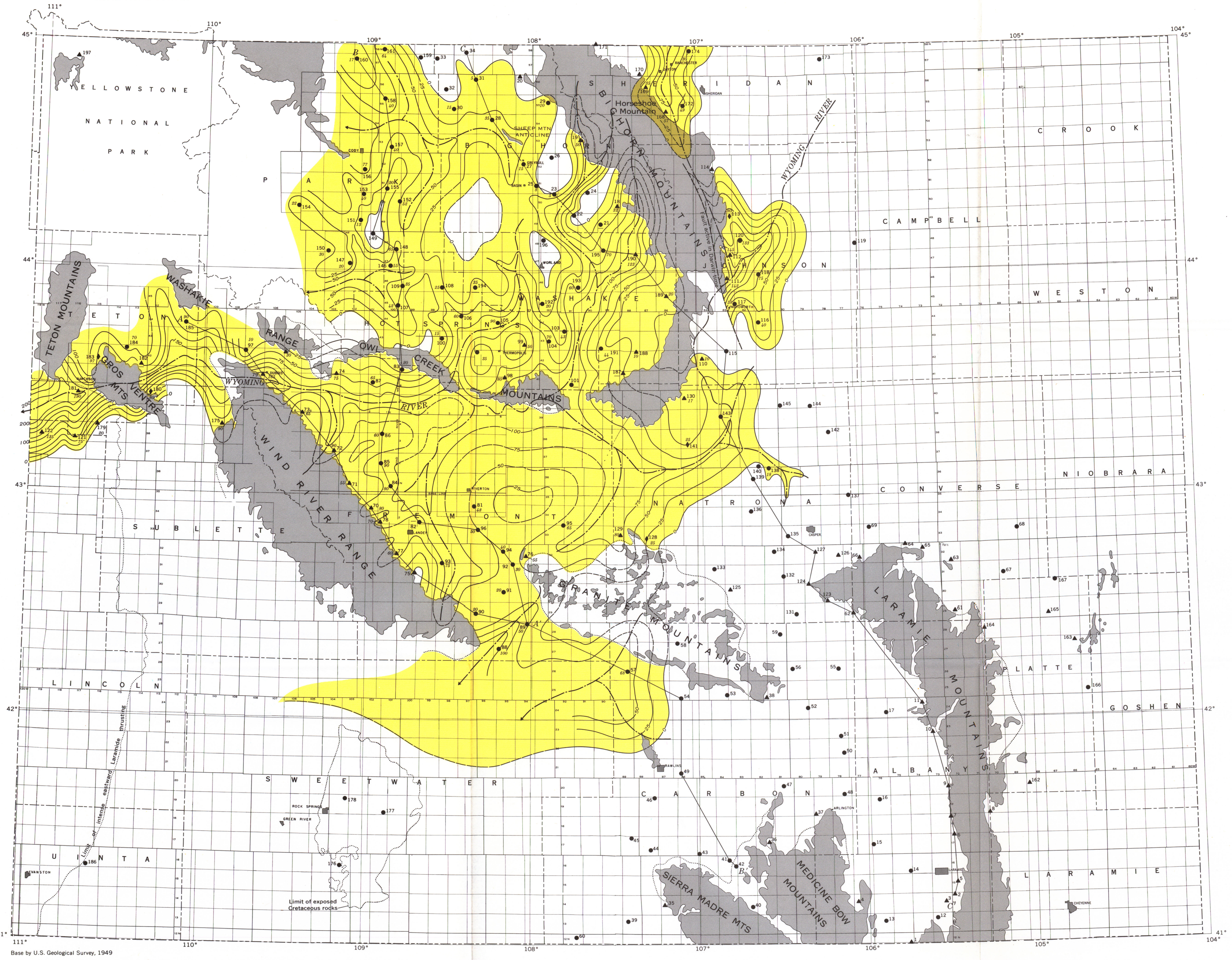
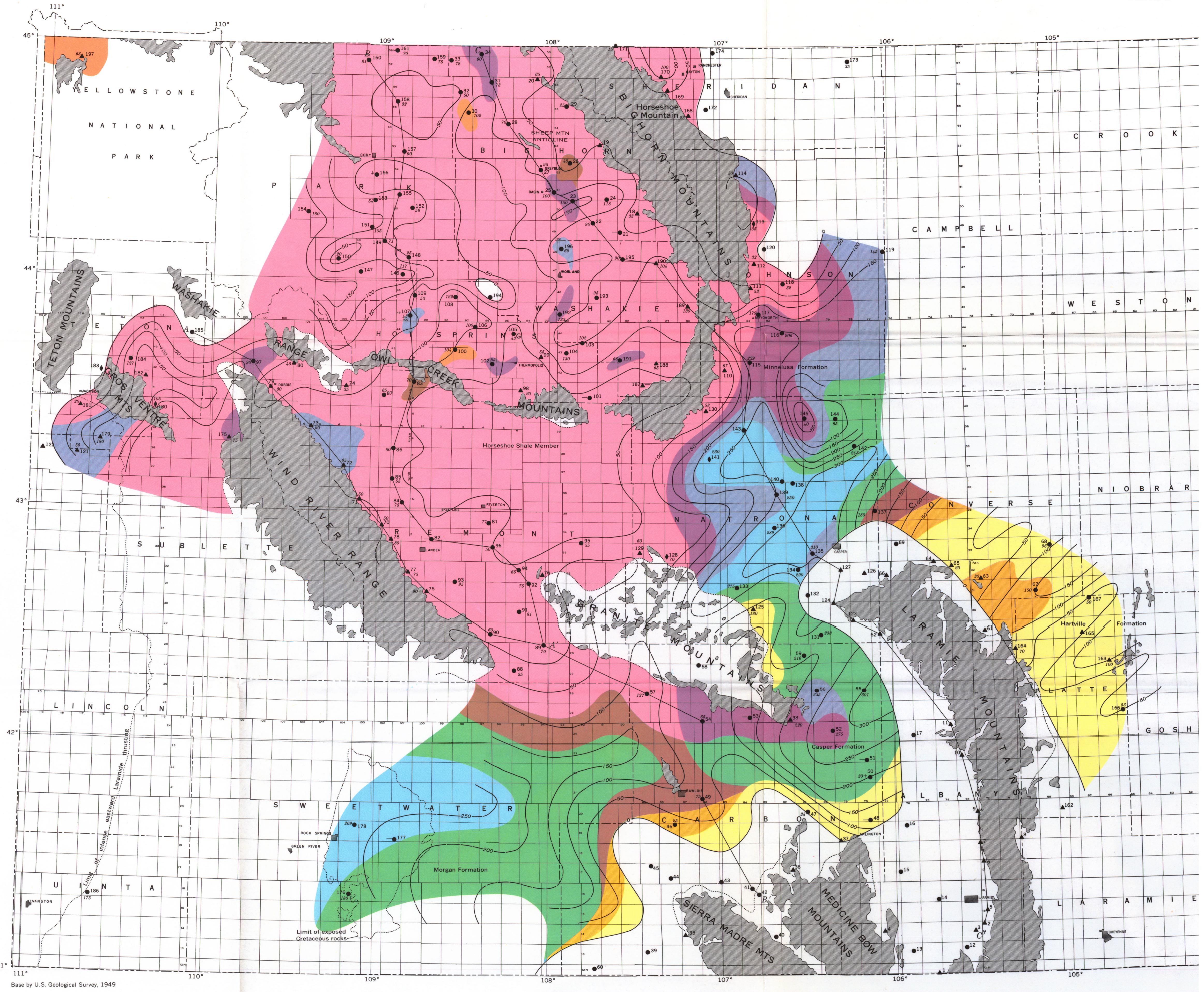
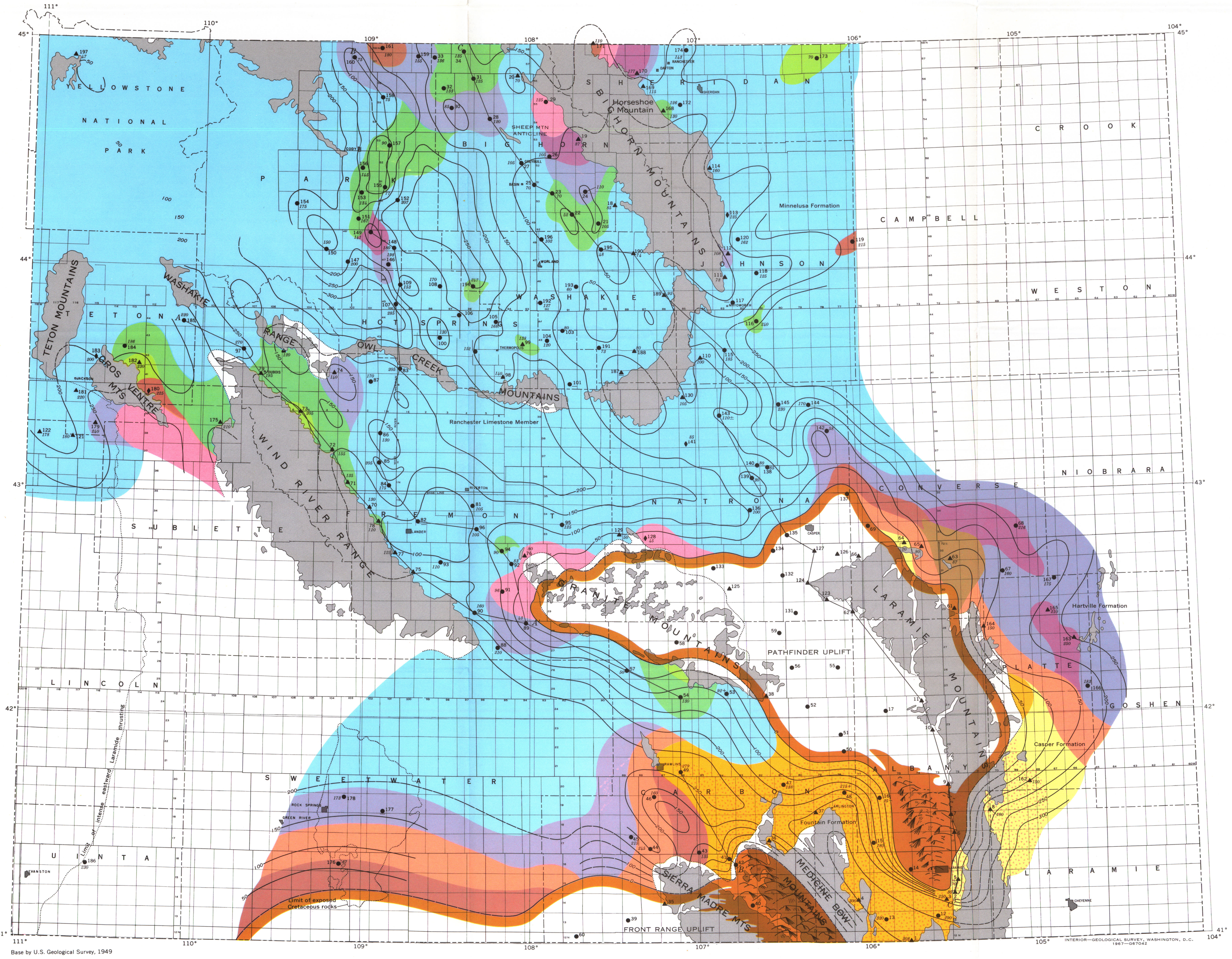

YELLOWSTONE NATIONAL PARK
PARK
BIG HORN
SHERIDAN
Horseshoe Mountain
SHEEP MTN ANTICLINE
BIGHORN MOUNTAINS
Fault active in Darwin time
WYOMING RIVER
CAMPBELL
CROOK
JOHNSON
WESTON
WASHAKIE
HOT SPRINGS
TETON MOUNTAINS
TETON
WASHAKIE RANGE
OWL CREEK MOUNTAINS
GROS VENTRE MTS
WYOMING RIVER
WIND RIVER RANGE
FREMONT
NATRONA
CONVERSE
NIOBRARA
SUBLETTE
GRANITE MOUNTAINS
LARAMIE MOUNTAINS
PLATTE
GOSHEN
LINCOLN
SWEETWATER
CARBON
ALBANY
UINTA
LARAMIE
SIERRA MADRE MTS
MEDICINE BOW MOUNTAINS
Limit of intense eastward Laramide thrusting
Limit of exposed Cretaceous rocks
CODY
GREYBULL
BASIN
WORLAND
THERMOPOLIS
RIVERTON
LANDER
DUBOIS
JACKSON
CASPER
RAWLINS
ROCK SPRINGS
GREEN RIVER
EVANSTON
LARAMIE
CHEYENNE
SHERIDAN
RANCHESTER
DAYTON
MAYOWORTH
ARLINGTON
111°
110°
109°
108°
107°
106°
105°
104°
45°
44°
43°
42°
41°
Base by U.S. Geological Survey, 1949

A. DARWIN SANDSTONE MEMBER


YELLOWSTONE NATIONAL PARK
PARK
BIG HORN
SHERIDAN
Horseshoe Mountain
SHEEP MTN ANTICLINE
BIGHORN MOUNTAINS
CAMPBELL
CROOK
JOHNSON
WESTON
WASHAKIE
HOT SPRINGS
TETON MOUNTAINS
TETON
WASHAKIE RANGE
OWL CREEK MOUNTAINS
GROS VENTRE MTS
WIND RIVER RANGE
FREMONT
NATRONA
CONVERSE
NIOBRARA
SUBLETTE
GRANITE MOUNTAINS
LARAMIE MOUNTAINS
PLATTE
GOSHEN
LINCOLN
SWEETWATER
CARBON
ALBANY
UINTA
LARAMIE
SIERRA MADRE MTS
MEDICINE BOW MOUNTAINS
Horseshoe Shale Member
Minnelusa Formation
Casper Formation
Hartville Formation
Morgan Formation
Limit of intense eastward Laramide thrusting
Limit of exposed Cretaceous rocks
111°
110°
109°
108°
107°
106°
105°
45°
44°
43°
42°
41°
Base by U.S. Geological Survey, 1949

B. HORSESHOE SHALE MEMBER


YELLOWSTONE NATIONAL PARK
PARK
BIG HORN
SHERIDAN
Horseshoe Mountain
SHEEP MTN ANTICLINE
BIGHORN MOUNTAINS
Minnelusa Formation
CAMPBELL
CROOK
JOHNSON
WESTON
WASHAKIE
HOT SPRINGS
TETON MOUNTAINS
TETON
WASHAKIE RANGE
OWL CREEK MOUNTAINS
GROS VENTRE MTS
Ranchester Limestone Member
WIND RIVER RANGE
FREMONT
NATRONA
CONVERSE
NIOBRARA
SUBLETTE
GRANITE MOUNTAINS
PATHFINDER UPLIFT
LARAMIE MOUNTAINS
Hartville Formation
PLATTE
GOSHEN
Casper Formation
LINCOLN
SWEETWATER
CARBON
ALBANY
Fountain Formation
UINTA
LARAMIE
SIERRA MADRE MTS
MEDICINE BOW MOUNTAINS
FRONT RANGE UPLIFT
Limit of intense eastward Laramide thrusting
Limit of exposed Cretaceous rocks
111°
110°
109°
108°
107°
106°
105°
104°
45°
44°
43°
42°
41°
Base by U.S. Geological Survey, 1949

C. RANCHESTER LIMESTONE MEMBER

EXPLANATION

LITHOLOGY

🟨 Sandstone

▨ Arkosic sandstone

▨ Arkosic shaly sandstone

🟧 Shaly sandstone

🟩 Calcareous sandstone

🟫 Calcareous shaly sandstone

▨ Shale

▨ Sandy shale

▨ Calcareous sandy shale

🟪 Calcareous shale

🟦 Carbonate rock

🟩 Sandy carbonate rock

▨ Shaly carbonate rock

——200—— — —
Isopach
Dashed where control is distant; short dashed where thickness is restored across present-day uplifts and mountains. Interval 25 or 50 feet

● 88 / *25* Subsurface
▲75 Surface Sections
♦ 183 / *97* Composite

Roman number (1) designates well or surface section listed in text table. Italic number (250) is thickness, in feet, of mapped unit. Dash (—) indicates information not available. Composite sections were derived from two or more adjacent wells or surface sections

▨ Outcrop of pre-Pennsylvanian rocks

....
Probable limit of Pennsylvanian strata beneath Tertiary cover

▨ Limit of uplift in existence at time of deposition of mapped unit and restored interpretation of highland areas

←—·—·— Postulated river courses developed on Madison Limestone prior to deposition of Darwin Sandstone Member (Map A)

A————A′
Line of geologic section
Shown on plate 1

MAPS SHOWING EXTENT, THICKNESS, AND LITHOLOGY OF MEMBERS OF THE AMSDEN FORMATION OF MISSISSIPPIAN AND PENNSYLVANIAN AGE, AND CORRELATIVE FORMATIONS IN THE MIDDLE ROCKY MOUNTAIN REGION

SCALE 1:1 000 000
25 0 25 50 75 100 MILES
25 0 25 50 75 100 KILOMETERS

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.
1967—G67042