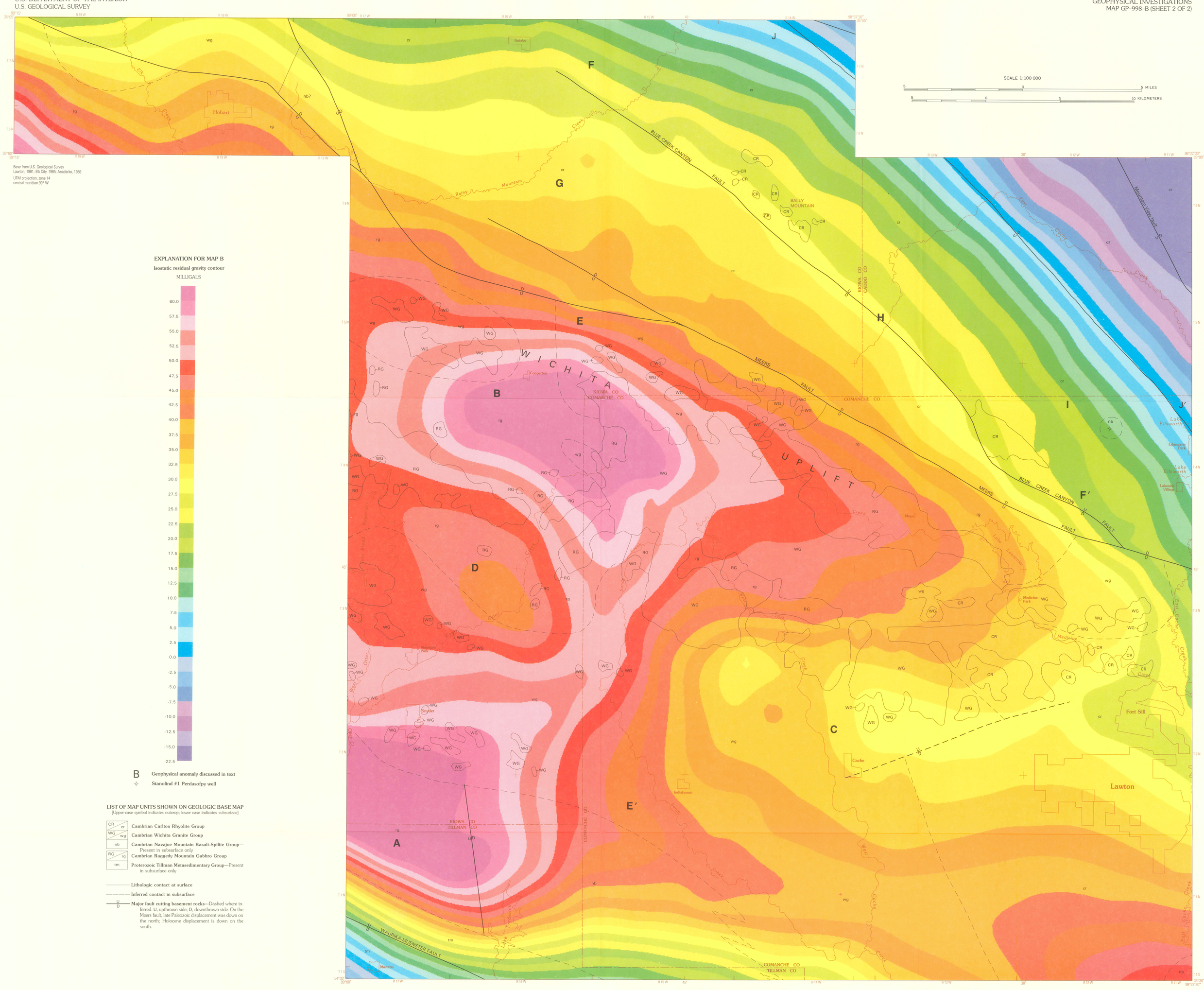


EXPLANATION FOR MAP B

Isostatic residual gravity contour

MILLIGALS

60.0, 57.5, 55.0, 52.5, 50.0, 47.5, 45.0, 42.5, 40.0, 37.5, 35.0, 32.5, 30.0, 27.5, 25.0, 22.5, 20.0, 17.5, 15.0, 12.5, 10.0, 7.5, 5.0, 2.5, 0.0, -2.5, -5.0, -7.5, -10.0, -12.5, -15.0, -22.5

B Geophysical anomaly discussed in text

Stanolind #1 Perdasofpy well

LIST OF MAP UNITS SHOWN ON GEOLOGIC BASE MAP

[Upper-case symbol indicates outcrop; lower case indicates subsurface]

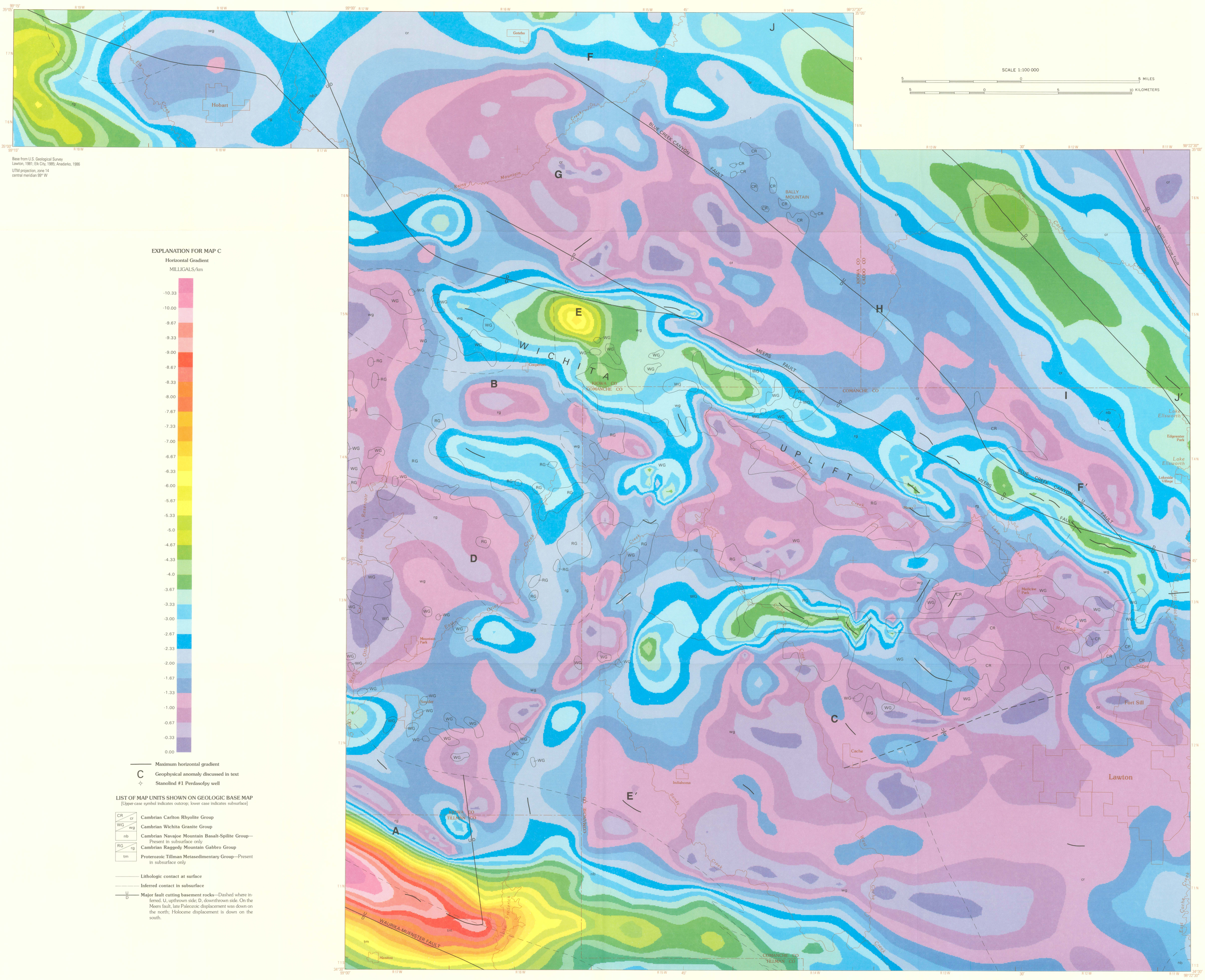
CR / cr	Cambrian Carlton Rhyolite Group
WG / wg	Cambrian Wichita Granite Group
nb	Cambrian Navajoe Mountain Basalt-Spilite Group—Present in subsurface only
RG / rg	Cambrian Raggedy Mountain Gabbro Group
tm	Proterozoic Tillman Metasedimentary Group—Present in subsurface only

Lithologic contact at surface

Inferred contact in subsurface

Major fault cutting basement rocks—Dashed where inferred. U, upthrown side; D, downthrown side. On the Meers fault, late Paleozoic displacement was down on the north; Holocene displacement is down on the south.

MAP B. ISOSTATIC RESIDUAL GRAVITY ANOMALY MAP



EXPLANATION FOR MAP C

Horizontal Gradient

MILLIGALS/km

-10.33, -10.00, -9.67, -9.33, -9.00, -8.67, -8.33, -8.00, -7.67, -7.33, -7.00, -6.67, -6.33, -6.00, -5.67, -5.33, -5.0, -4.67, -4.33, -4.0, -3.67, -3.33, -3.00, -2.67, -2.33, -2.00, -1.67, -1.33, -1.00, -0.67, -0.33, 0.00

Maximum horizontal gradient

C Geophysical anomaly discussed in text

Stanolind #1 Perdasofpy well

LIST OF MAP UNITS SHOWN ON GEOLOGIC BASE MAP

[Upper-case symbol indicates outcrop; lower case indicates subsurface]

CR / cr	Cambrian Carlton Rhyolite Group
WG / wg	Cambrian Wichita Granite Group
nb	Cambrian Navajoe Mountain Basalt-Spilite Group—Present in subsurface only
RG / rg	Cambrian Raggedy Mountain Gabbro Group
tm	Proterozoic Tillman Metasedimentary Group—Present in subsurface only

Lithologic contact at surface

Inferred contact in subsurface

Major fault cutting basement rocks—Dashed where inferred. U, upthrown side; D, downthrown side. On the Meers fault, late Paleozoic displacement was down on the north; Holocene displacement is down on the south.

MAP C. MAXIMUM HORIZONTAL GRADIENT MAP

BOUGUER AND ISOSTATIC RESIDUAL GRAVITY ANOMALY AND DERIVATIVE MAPS OF THE LAWTON AREA, SOUTHWESTERN OKLAHOMA

By
Meridee Jones-Cecil and Stephen L. Robbins

1996

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