

LEGEND

SEDIMENTARY ROCKS
(continued)

Cmk

Minneluka limestone
(gray thin bedded; gray limestone in
underlying beds)

Ce

Opeche formation
(bright red sandy shale
purple at top)

Cm

Mimihisa sandstone
(red, yellow and gray
conglomeratic sandstone)

Sandstone dikes
in Graneros shale
(material derived from
Lakota sandstone)

Faults

Sections

Coal mines and stone quarries
X Coal prospects

LEGEND

SEDIMENTARY ROCKS
(Areas of undulating
deposits are shown by
patterns of parallel lines,
inclined deposits by
patterns of dots and
circles)

Ods

Dune sand

Oal

Alluvium
(only the larger de-
posits represented)

Qr

Older terrace
deposits
(sand, gravel and loam)

Org

Residual gravel
(from Chadron formation)

Tc

Chadron formation
(sandstone, gravel and loam)

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Kp

Pierre shale
(dark gray shale or clay
with concretions)

Kn

Niobrara formation
(impure shaly limestone
or calcareous clay,
weathers light buff)

Kcr

Carlile formation
(gray shale and thin
sandstone)

Kg

Greenhorn
limestone
(impure shaly limestone)

Kgs

Graneros
shale
(black fissile shale)

Kd

Dakota
sandstone
(massive buff sandstone
with thinner beds at top)

Kf

Fuson
formation
(massive sandy clay
of various colors)

Kmw

Mimewaste
limestone
(massive gray limestone)

Klk

Lakota
formation
(massive buff sandstone
with gray interbeds
and local coal beds)

Km

Morrison
formation
(gray, maroon, and
purple clay)

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Ju

Unipapa
sandstone
(massive fine-grained
sandstone, pink, purple,
white, yellow, and buff)

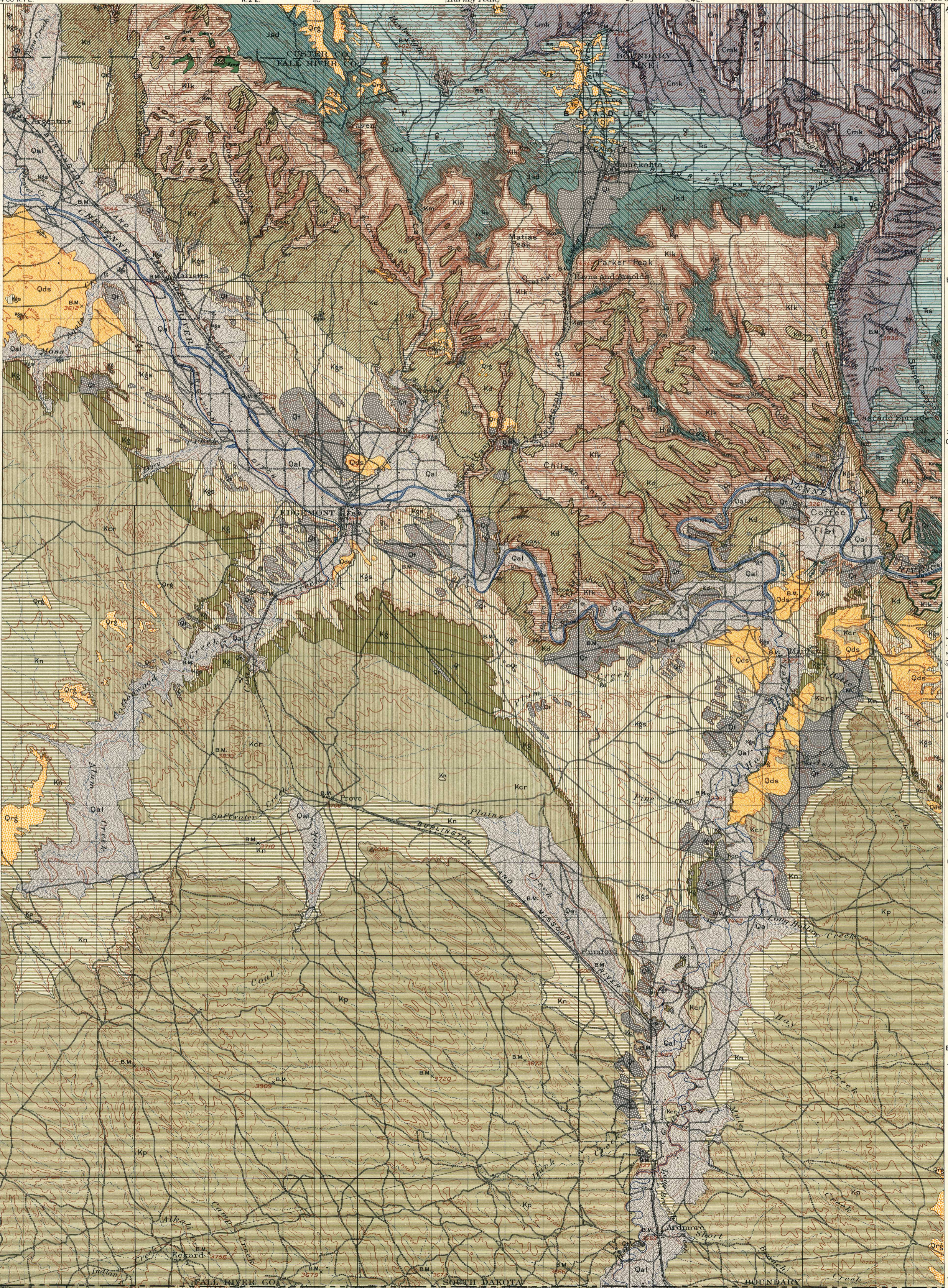
Jed

Sundance
formation
(buff sandstone and
greenish shale)

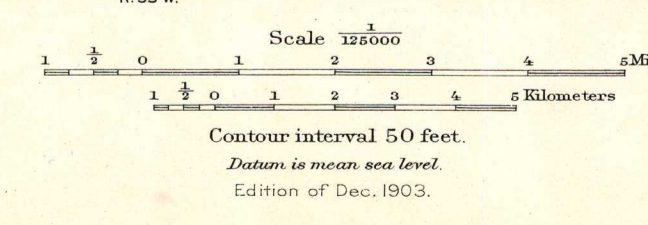
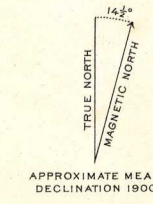
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Is

Spearfish
shale
(red sandy shale)



E. M. Douglas, Geographer in charge.
Triangulation by E. M. Douglas and A. F. Dunnington.
Topography by A. F. Dunnington.
Surveyed in 1900.



Geology by N.H. Darton and W.S. Tangier Smith.
Surveyed in 1900 and 1902.

Legend is continued
on the left margin.