



EXPLANATION

Qal	Alluvium	QUATERNARY
Qtg	Terrace gravel	
Ql	Landslide	
Kfr	Fall River sandstone	
Kfml	Fuson formation, Minnewassee limestone, and Lakota sandstone, un differentiated	CRETACEOUS
	Base of Fuson formation, Minnewassee limestone, and Lakota sandstone un differentiated indicated by a ticked line. Base of Fall River sandstone indicated by a double-ticked line. Lithology of units is as follows: s, sandstone; m, mudstone; sm, interbedded sandstone and mudstone; ss, interbedded sandstone and siltstone. Prominent sandstone beds are numbered from oldest to youngest as follows: Unit No. 4 (S ₄) is a white, gray, and yellow-brown medium to coarse-grained, conglomeratic, highly cross-bedded sandstone. Unit No. 3 (S ₃) is a white to red, friable, fine-grained massive sandstone. Unit No. 1 (S ₁) is a tan to yellow-gray cliff-forming, thin to thick-bedded, fine-grained sandstone with interbedded mudstone.	
Jm	Merriam formation	
Ju	Unkapa sandstone	
Jsr	Sundance formation Redwater shale member, Jsr; Lak number, Jsl; Hulet sandstone member, Jsh; Steele shaly shale member, Jssb; Canyon Springs sandstone member, Jscs.	
Jsl		
Jsh		
Jssb		
Jscs		
Ts	Speerfish formation	
	Type of exposure Small letters denote type of exposure within mapped units: "a" denotes areas of good exposure, "b" areas of intermittent exposure, and "c" areas of no exposure. Type of exposure not mapped in the Speerfish formation.	

Contact
Dashed where approximately located.

Indefinite or inferred contact

Limit of exposure
U

Fault
Dashed where approximately located. U, upstream side; D, downstream side.

Strike and dip of bedding

Horizontal beds

Strike and dip of joints

Vertical joint

Carbonate-cemented sandstone

Silica-cemented sandstone

Boundary of landslide

Mine

Geographic Grid
103°45'00" 103°42'30" 103°40'00"
43°22'30" 43°20'00" 43°17'30"
PART OF QUADRANGLE COVERED BY THIS MAP

Scale
1:7500
0 1000 2000 3000 Feet
Contour interval 10 feet
Datum is mean sea level
1957

Library
U. S. GEOLOGICAL SURVEY
WASHINGTON
MAY 20 1957
LIBRARY

Handwritten notes:
M(200) A36f No. 70
South Dakota (SW Minnekahta quad.) Geol. 1:7500, 1957. p. 1.

PRELIMINARY GEOLOGIC MAP OF THE SOUTHWEST PART OF THE MINNEKAHTA QUADRANGLE, FALL RIVER COUNTY, SOUTH DAKOTA

By
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