

SOUTH

NORTH

Klondike Butte
NW 1/4 Sec 18
T. 138 N., R. 85 W.

Drill Hole
NE cor. SE 1/4 NE 1/4
sec. 20
T. 138 N., R. 87 W.

SE 1/4 Sec 14 B
SW 1/4 Sec 13
T. 137 N., R. 86 W.
(Composite)

Sentinel Butte Member
Tongue River Member

SW 1/4 Sec 19
T. 137 N., R. 85 W.

near center Sec. 14
T. 137 N., R. 86 W.

D4494 3050 ft TD

STRATIGRAPHIC SECTIONS MEASURED IN THE SOUTHERN PART OF THE DENGATE QUADRANGLE AND NEARBY AREAS. THE STRATIGRAPHIC POSITION OF INDIVIDUAL SECTIONS IS BASED PRIMARILY ON THEIR MEASURED OR ESTIMATED POSITIONS RELATIVE TO THE CONTACT BETWEEN THE SENTINEL BUTTE AND TONGUE RIVER MEMBERS.

EXPLANATION

	Sandstone		Approximate position of indicated marker bed
	Silty and (or) clayey sandstone		Clicker
	Siltstone		Line marks estimated former position of burned lignite bed
	Clayey siltstone		Fossil mollusks
	Claystone and mudstone		Petrified stumps or logs
	In some places includes sandy mudstone		Covered or not described
	Limestone		In drill hole sections, core recovery or cutting return not adequate for determination of lithology
	Carbonaceous shale		Partly covered or only approximately described
	In some places includes lignitic carbonaceous shale		Location shown on geologic map
	Impure lignite		D4102-A, M2702
	In some places includes beds of mixed lignite and carbonaceous shale		U.S. Geological Survey fossil locality number
	Lignite		DC-1-LA, D-1-20
	Thickness in feet and tenths; queried where approximate		Core sample described in table 2
	Silicified bed		V-499A
	Approximate position of top of silicified carbonaceous shale bed		Outcrop sample described in table 3
			DC-1-2, D-13a
			Outcrop sample described in table 4

FEET
0
-5
-10
-20
-30

Lignite beds
Marker beds

SENTINEL BUTTE MEMBER
TONGUE RIVER MEMBER

FEET
0
-5
-10
-20

* Generally only one bed seen; at Twin Buttes three beds are present but only the uppermost bed is mapped.
** Two local beds mapped in some areas.

U. S. Geological Survey
Geological Survey
and has been mapped
conformity with Geological Survey
standards of nomenclature.

GENERALIZED STRATIGRAPHIC SECTION OF THE PART
OF THE TONGUE RIVER FORMATION EXPOSED IN
THE DENGATE QUADRANGLE