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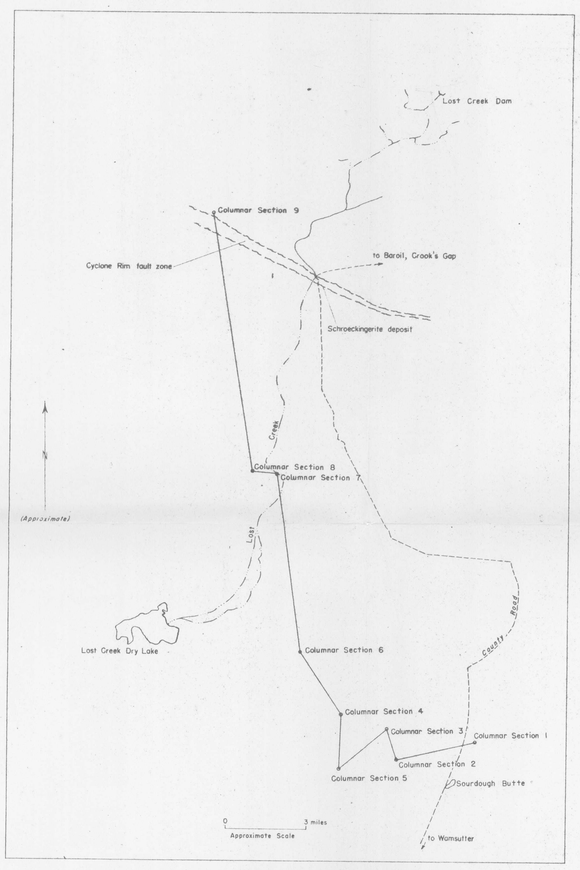
UNITED STATES GEOLOGICAL SURVEY

Age	Formation	Bed
Oligocene	Chadron	
Unconformity		
Late Eocene		

EXPLANATION

- Gravel
- Sand (Coarse- to fine-grained)
- Sandstone
- Silt
- Clay
- Shale
- Limestone
- Uraniferous lignite
- Lignitic shale
- Baked rock (Formerly shale, baked by burning lignite)
- Lignite ash and clinker
- Bentonite
- Gypsum
- Calcareous rock
- Mica
- Iron oxides
- Nodules: Ironstone, sandstone, shale
- Oolites
- No exposure
- Poor exposure
- Fossils, Fossil locality (e.g. F-10, JBR-4)



Index map, Red Desert area, Wyoming (Pl. 1)

Tertiary — Eocene — Middle Eocene — Undifferentiated Wasatch, Green River, Bridger, and Continental Peak

Early Eocene

Green River Limestone and Shale

Green River Shale

Green River Shale

Lentils of Green River Shale in undifferentiated rocks of other formations.

Fossil horizon JBR-4, F-10

Green River Shale

Green River Shale

Lignite bed No. 3

Lignite bed No. 2

Lignite bed No. 1

Horizon of fossil locality JBR-1

Columnar Section 1

Lithology	Distance in feet from base
	100
	80
	60
	40
	20
	0

Columnar Section 2

Lithology	Distance in feet from base
	60
	40
	20
	0

Columnar Section 3

Lithology	Distance in feet from base
	20
	0

Columnar Section 4

Lithology	Distance in feet from base
	100
	80
	60
	40
	20
	0

F-8, F-7, F-6

Columnar Section 5

Lithology	Distance in feet from base
	40
	20
	0

F-9

Columnar Section 6

Lithology	Distance in feet from base
	3
	2
	1
	0

F-10

NOTE. Thickness of beds approximate.

Fossil horizon JBR-4, F-10

Columnar Section 7

Lithology	Distance in feet from base
	80
	60
	40
	20
	0

JBR-2

F-11

Columnar Section 8

Lithology	Distance in feet from base
	40
	20
	0

F-12

Columnar Section 9

Lithology	Distance in feet from base
	520
	500
	480
	460
	440
	420
	400
	380
	360
	340
	320
	300
	280
	260
	240
	220
	200
	180
	160
	140
	120
	100
	80
	60
	40
	20
	0

Contact of Tertiary formation on Cretaceous age

JBR-5

Green River Shale

Fossil horizon JBR-4, F-10

JBR-4

JBR-3

Green River Shale and Limestone

Green River Shale

Undifferentiated Wasatch, Green River, Bridger, and Continental Peak formations of Eocene age

Probable Stratigraphic Displacement

CYCLONE RIM FAULT ZONE

Note. The CYCLONE RIM FAULT ZONE is shown 3½ miles south of its true position (see index map).

Geology by Donald G. Wyant assisted by William N. Sharp 1949

PLEASE REPLACE IN POCKET IN BACK OF BOUND VOLUME

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Approximate horizontal scale 0 1 2 3 miles

Vertical scale 40 feet 30 20 10 0 10

PLATE 3:-- COLUMNAR SECTIONS NOS. 1 to 9, RED DESERT AREA, SWEETWATER COUNTY, WYOMING