

U.S. GEOLOGICAL SURVEY  
CHARLES D. WALCOTT  
DIRECTOR

## AREAL GEOLOGY

WYOMING  
(CROOK COUNTY)  
DEVILS TOWER QUADRANGLE



E. M. Douglas, Geographer in charge.  
Topography by W. H. Herron.  
Triangulation by W. H. Herron.  
Surveyed in 1902-1903.

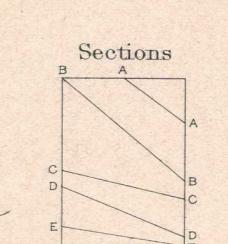
APPROXIMATE MEAN DECLINATION 1903.

Scale 1:125000  
1 2 0 1 2 3 4 5 Miles  
1 2 0 1 2 3 4 5 Kilometers

Contour interval 50 feet.  
Datum is mean sea level.  
Edition of Mar. 1907.

DIAGRAM OF TOWNSHIP:  
6 5 4 3 2 1  
18 17 16 15 14 13  
19 20 21 22 23 24  
30 29 28 27 26 25  
31 32 33 34 35 36

Geology by C. C. O'Hara,  
under the direction of N. H. Darton.  
Surveyed in 1904.



## LEGEND

SEDIMENTARY ROCKS  
(Areas of subaqueous deposits are shown by patterns of parallel lines; subaerial deposits by patterns of dots and circles)

Qsl  
Alluvium  
(sand and loam, only the larger deposits represented)

Qtl  
Talus  
(of igneous rock)

Qt  
Older terrace deposits  
(gravel and loam)

Tw  
Sand, gravel,  
and conglomerate  
(possibly of White River age)

### UNCONFORMITY

Kfh  
Fox Hills sandstone  
(buff massive sandstone,  
mostly soft)

Kp  
Pierre shale  
(dark-gray shale and  
clay with concretions)

Kn  
Niobrara formation  
(laminated shale and  
impure chalk)

Ker

Carlile formation  
(gray shale and  
thin sandstone)

Kge  
Greenhorn formation  
(black shale with thin  
limestone concretions)

Ker  
Graneros shale  
(dark olive-green shale  
with sandstone bed Kereg  
and Mowry member Kerep  
composed of hard gray shale)

Kd  
Dakota sandstone  
(brownish sandstone,  
mostly massive)

Kfr  
Fuson formation  
(shale and sandstone)

Klk  
Lakota sandstone  
(massive buff sandstone)

Km  
Morrison shale  
(massive sandy shale,  
grayish greenish, and  
greenish)

### UNCONFORMITY?

Jad  
Sundance formation  
(buff sandstone and  
red and tanish-gray  
shale)

### JURASSIC

Trs  
Sundance formation  
(buff sandstone and  
red and tanish-gray  
shale)

### UNCONFORMITY

Trs  
Sundance formation  
(buff sandstone and  
red and tanish-gray  
shale)

### TRIASSIC?

Sp

Spurish formation  
(red sandy shale  
with beds of gypsum;  
Red beds)

### IGNEOUS ROCKS

(Areas of igneous rocks  
are shown by patterns of triangles and rhombs)

Tsp  
Tsp  
Phonolite  
(laccolitic intrusions,  
includes small bodies  
of phonolite porphyry;  
Tsp)

Tsp  
Tsp  
Agglomerate  
(fragments of older  
sedimentary rocks and  
porphyries in a matrix  
of monzonite; Tsp  
probably an inclusion)

Ip  
Lamprophyre dikes