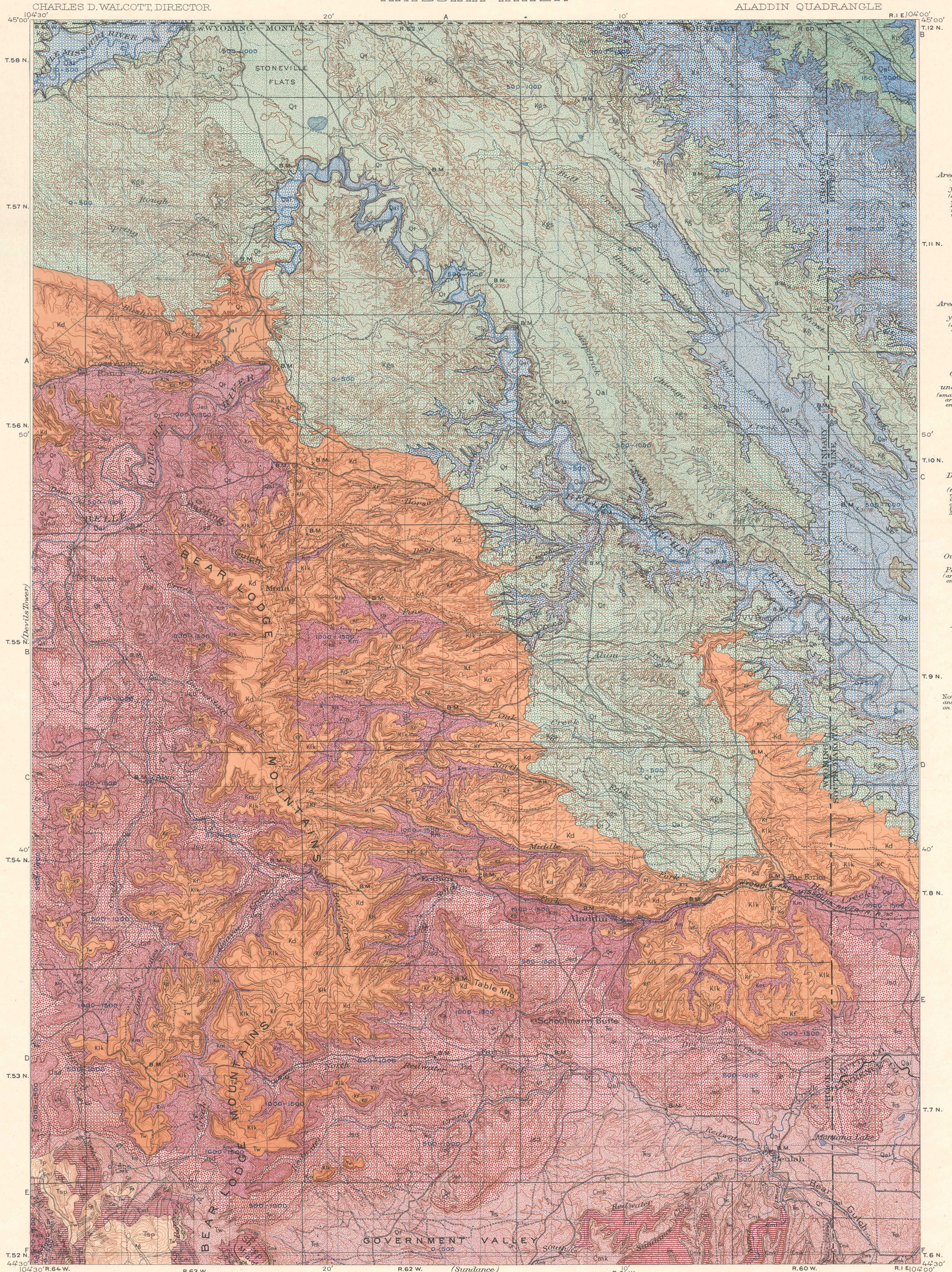
U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

ARTESIAN WATER

WYOMING-SOUTH DAKOTA-MONTANA
ALADDIN QUADRANGLE



LEGEND

0-500
500-1000
1000-1500
1500-2000

Area of Dakota sandstone which will probably yield flowing wells
(depth to top of Dakota sandstone indicated by pattern. Flowing water may be expected from 20 to 200 feet below the top of the formation.)

0-500
500-1000
1000-1500
1500-2000

Area of Dakota sandstone which will probably yield pumping wells
(depth to top of Dakota sandstone indicated by pattern.)

Outcrop of Dakota and associated underlying sandstones
(small detached outliers not shown; area in which surface waters enter water-bearing strata.)

0-500
500-1000
1000-1500

Depth to Minnelusa sandstone
(from which flowing water may probably be obtained in low valleys; water may probably also be had from underlying Pahasapa limestone, 500 to 1000 feet deeper.)

Outcrop of Minnelusa sandstone and Pahasapa limestone
(area in which surface waters enter water-bearing strata.)

Areas probably not underlain by water-bearing formations

⊙ *Unsuccessful boring at Aladdin showing depth.*

Note: *Geologic boundary lines and letter symbols explained on Areal Geology map.*

E.M. Douglas, Geographer in charge.
Triangulation by A.F. Dunnington.
Topography by W.H. Herron.
Surveyed in 1901.

TRUE NORTH
MAGNETIC NORTH
15°
APPROXIMATE MEAN DECLINATION 1902.

Scale $\frac{1}{125000}$

1 ½ 0 1 2 3 4 5 Miles

1 ½ 0 1 2 3 4 5 Kilometers

Contour interval 50 feet.
Datum is mean sea level.
Edition of Nov. 1905

DIAGRAM OF TOWNSHIP

6	5	4	3	2	1
7	8	9	10	11	12
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 N.H. Darton and C.C. O'Harra.
Surveyed in 1902.