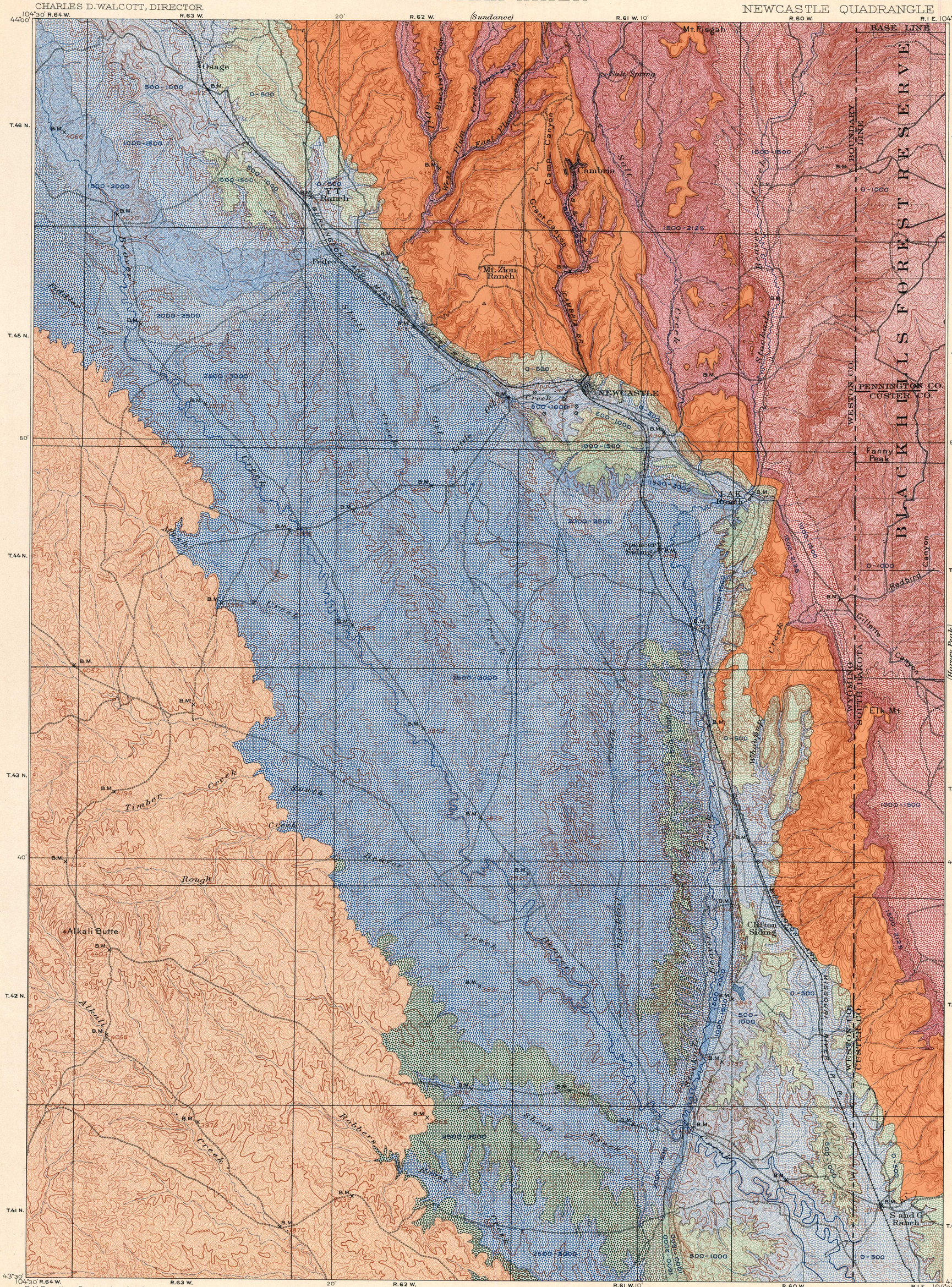
U.S. GEOLOGICAL SURVEY
CHARLES D. WALCOTT, DIRECTOR

# ARTESIAN WATER

## WYOMING–SOUTH DAKOTA
## NEWCASTLE QUADRANGLE




## LEGEND

0 - 500
500 - 1000
1000 - 1500
1500 - 2000
2000 - 2500
2500 - 3000

*Area of Dakota sandstone which will probably yield flowing wells at less than 3000 feet depth*

*(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
2000 - 2500
2500 - 3000

*Area of Dakota sandstone which will probably yield pumping wells at less than 3000 feet depth*

*(depth to top of Dakota sandstone indicated by pattern.)*

*Outcrop of Dakota and associated underlying sandstones (area in which surface waters enter water-bearing strata.)*

*Area in which Dakota sandstone is more than 3000 feet below the surface*

0 - 1000
1000 - 1500
1500 - 2125

*Depths to water-bearing horizon in Pahasapa limestone tapped in Cambria well. (the Deadwood sandstone lies from 350 to 500 feet deeper and probably also contains water.)*

⊙ *Wells in Dakota and associated water-bearing strata*

⊙P *Cambria well in Pahasapa limestone*

E. M. Douglas, Geographer in charge.
Triangulation by Frank Tweedy and R. H. Chapman.
Topography by W. H. Herron.
Surveyed in 1899.

Geology by N. H. Darton.
Surveyed in 1899–1901.

APPROXIMATE MEAN DECLINATION 1902.

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

Contour interval 50 feet.
*Datum is mean sea level.*

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 |

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