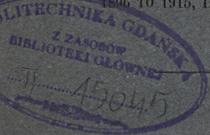
DEPARTMENT OF THE INTERIOR FRANKLIN K. LANE, Secretary

UNITED STATES GEOLOGICAL SURVEY
GEORGE OTIS SMITH, Director

BULLETIN 643

SPIRIT LEVELING IN SOUTH DAKOTA

1896 TO 1915, INCLUSIVE

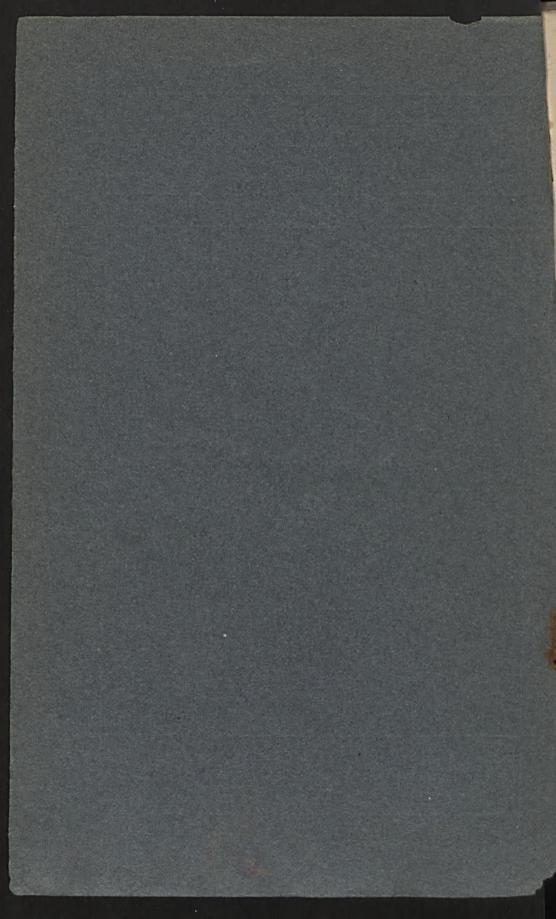


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R. B. MARSHALL, CHIEF GEOGRAPHER



WASHINGTON
GOVERNMENT PRINTING OFFICE
1916



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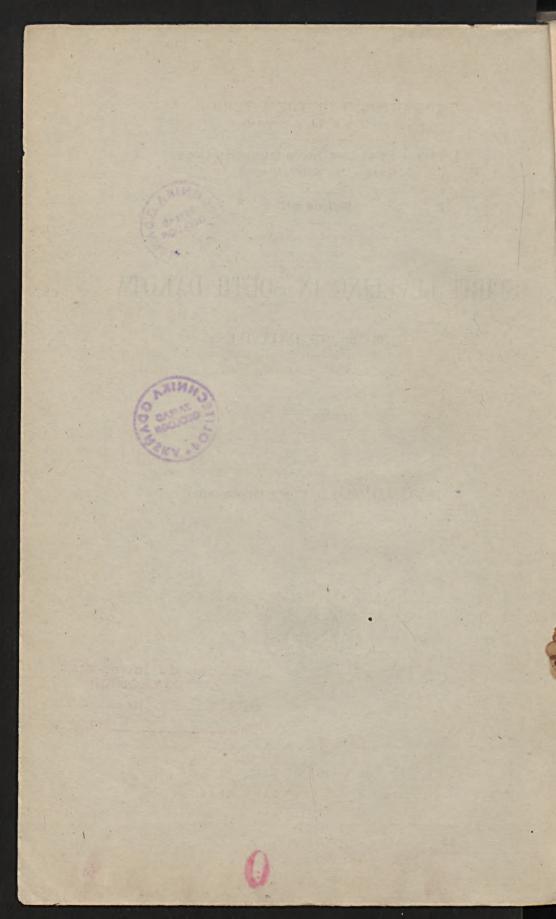
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WASHINGTON
GOVERNMENT PRINTING OFFICE
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CONTENTS.

| " vys |
|---|
| Introduction, |
| Previous publication |
| Personnel |
| Classification |
| Bench marks |
| Datum |
| Topographic maps |
| Primary leveling |
| Canton, Elk Point, Olivet, and Parker quadrangles (Bonhomme, |
| Clay, Hutchinson, Lincoln, Turner, Union, and Yankton counties) |
| Deadwood, Edgemont, Harney Peak, Hermosa, Oelrichs, Rapid, and |
| Sundance quadrangles (Custer, Lawrence, Meade, and Penning- |
| ton counties) |
| Belle Fourche and Newell 30' quadrangles (Butte, Lawrence, and |
| Meade counties) |
| New Effington, Peever, Sisseton, and White Rock quadrangles (Roberts |
| County) |
| Appendix A: Elevations adjusted by the United States Coast and Geodetic |
| Survey |
| Appendix B: Elevations from bench marks established by the Missouri |
| River Commission |
| Appendix C: Secondary elevations |
| Index |

ILLUSTRATION.

| | Page. |
|--|-------|
| PLATE I. Geological Survey bench marks | 5 |
| 3 | |

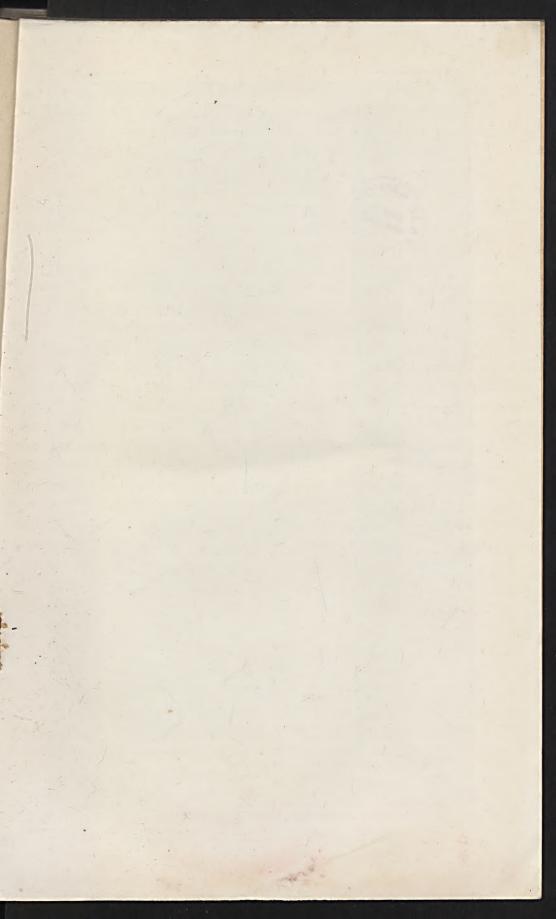


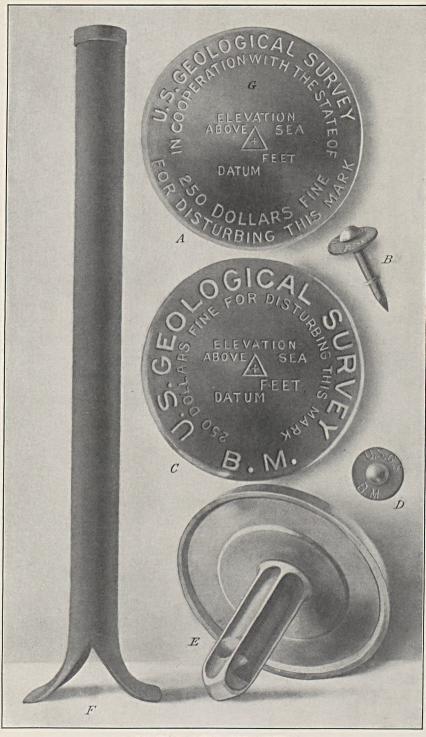
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GEOLOGICAL SURVEY BENCH MARKS.

A, Tablet used in cooperating States. The State name is inserted at G. B and D, Copper temporary bench mark, consisting of a nail and copper washer. A, C, and E, Tablets for stone or concrete structures. F, Iron poet used where there is no rock.



SPIRIT LEVELING IN SOUTH DAKOTA, 1896 TO 1915, INCLUSIVE.

R. B. Marshall, Chief Geographer.

INTRODUCTION.

Previous publication.—All results of spirit leveling in South Dakota previously published by the United States Geological Survey in Bulletin 472, and all the results of later work are included in this report, arranged by quadrangles. Elevations are based on heights of bench marks along precise level lines of the Coast and Geodetic Survey as adjusted in 1912, and on checked primary leveling of the Missouri River Commission.

Personnel.—The field work in the western part of the State from 1896 to 1906, inclusive, was done under the general direction of E. M. Douglas, geographer. That for the remainder of the State, previous to 1903, was under the general direction of J. H. Renshawe, geographer, and from 1903 to 1906, inclusive, under H. M. Wilson, geographer. Since 1907 the work has been under E. C. Barnard and Sledge Tatum, geographers, under the general direction of R. B. Marshall, chief geographer. The names of the respective levelmen are given in the introductions to the several lists. The office work of computation, adjustment, and preparation of lists was done mainly by S. S. Gannett, geographer, under the general direction of E. M. Douglas, geographer.

Classification.—No precise leveling has been done by the United

States Geological Survey in this State.

For primary lines standard Y levels are used; lines are run in circuits or are closed on precise lines, with an allowable closing error in feet represented by $0.05\sqrt{D}$, in which D is the length of the circuit in miles, sufficient care being given to the work to maintain this standard. For circuit closures careful office adjustments are made, the small outstanding errors being distributed over the lines.

Bench marks.—The standard bench marks are of two forms. The first form is a circular bronze or aluminum tablet (C and E, Pl. I),

 $3\frac{1}{2}$ inches in diameter and one-quarter inch thick, having a 3-inch stem, which is cemented into a drill hole in solid rock in the wall of some public building, a bridge abutment, or other substantial masonry structure. The second form (F, Pl. I), used where masonry or rock is not available, consists of a hollow wrought-iron post $3\frac{1}{2}$ inches in outer diameter and 4 feet in length, which is set about 3 feet in the ground. The bottom is spread out to a width of 10 inches in order to give a firm bearing on the earth. A bronze or aluminum-bronze cap is riveted upon the top of the post. A third style of bench mark with abbreviated lettering (B and D, Pl. I) is used for unimportant points. This consists of a special copper nail $1\frac{1}{2}$ inches in length driven through a copper washer seven-eighths inch in diameter. The tablets as well as the caps on the iron posts are appropriately lettered, and cooperation by States is indicated by the addition of the State name (G, Pl. I).

The numbers stamped on the bench marks described in the following pages represent the elevations to the nearest foot as determined by the levelman. These numbers are stamped with three-sixteenths-inch steel dies on the tablets or post caps, to the left of the word "feet." The office adjustment of the notes and the reduction to mean sea level datum may so change some of the figures that the original markings are 1 or 2 feet in error. It is assumed that engineers and others who have occasion to use the bench-mark elevations will apply to the Director of the United States Geological Survey at Washington, D. C., for the adjusted values, and will use the markings as identification numbers only.

Datum.—All elevations determined by the United States Geological Survey and the United States Coast and Geodetic Survey are referred to mean sea level, which is the level that the sea would assume if the influence of winds and tides was eliminated. This level is not the elevation determined from the mean of the highest and the lowest tides, nor is it the half sum of the mean of all the high tides and the mean of all the low tides, which is called the half-tide level. Mean sea level is the average height of the water, all stages of the tide being considered. It is determined from observations made by means of tidal gages placed at stations where local conditions, such as long, narrow bays, rivers, and like features, will not affect the height of the water. To obtain even approximately correct results these observations must extend over at least one lunar month, and if accuracy is desired they must extend over several years. At ocean stations the half-tide level and the mean sea level usually differ but little. It is assumed that there is no difference between the mean sea levels determined from observations in the Atlantic Ocean, the Gulf of Mexico, and the Pacific Ocean.

The connection with tidal stations for bench marks in certain areas that lie at some distance from the sea coast is still uncertain, and this fact is indicated by the addition of a letter or word to the right of the word "DATUM" on tablets or posts. For such areas corrections for published results will be made from time to time as the precise-level lines of the United States Geological Survey, the United States Coast and Geodetic Survey, or other Government organizations are extended.

Topographic maps.—Topographic maps of the following quadrangles wholly or partly in South Dakota have been published by the United States Geological Survey up to June 1, 1916. They may be obtained for 10 cents each or \$3 for 50, on application to the Director of the Survey at Washington, D. C.

Aberdeen.1 Aladdin (Wyo.-S. Dak.-Mont.). Alexandria. Belle Fourche. Byron. Canton (S. Dak.-Iowa). Columbia 30' (S. Dak.-N. Dak.). Columbia 15'. Conde.1 Deadwood. De Smet. Edgemont (S. Dak.-Nebr.). Elk Point (S. Dak.-Nebr.-Iowa). Ellendale 30' (S. Dak.-N. Dak.). Ellendale 15' (N. Dak.-S. Dak.). Harney Peak. Hecla (S. Dak.-N. Dak.). Hermosa.

Huron. Mitchell. Newcastle (Wyo.-S. Dak.). Newell. Northville. Oelrichs (S. Dak.-Nebr.). Olivet. Parker. Rapid. Redfield. Redwater. St. Onge.2 Savo (S. Dak.-N. Dak.). Spearfish.4 Sturgis.4 Sundance (Wyo.-S. Dak.). Vale.

of Belle Fourche sheet, on scale of 1:125,000.

*Columbia 15', Hecla, and Savo sheets, on scale of 1:62,500, have been reduced and

form parts of Columbia 30' sheet on scale of 1:125,000.

* Spearfish and Sturgis sheets, on scale of 1:62,500, have been reduced and form parts

of Deadwood sheet, on scale of 1:125,000.

⁵ Ellendale 15' sheet, on scale of 1:62,500, has been reduced and forms part of Ellendale 30' sheet, on scale of 1:125,000.

¹ Conde sheet, on scale of 1:62,500, has been reduced and forms part of Aberdeen sheet, on a scale of 1:125,000.

² Redwater and St. Onge sheets, on scale of 1:62,500, have been reduced and form parts

PRIMARY LEVELING.

Canton, Elk Point, Olivet, and Parker quadrangles.

BONHOMME, CLAY, HUTCHINSON, LINCOLN, TURNER, UNION, AND YANKTON COUNTIES.

The elevations in the following list were determined by primary leveling extended from bench marks of the Missouri River Commission and the United States Coast and Geodetic Survey and accord with the 1912 adjustment. A correction of 0.525 foot has been subtracted from the values published in part 3 of the Report of the Chief of Engineers United States Army, for 1894, at and west of Elk Point, a junction point with a precise-level line of the Coast and Geodetic Survey, crossing the Elk Point and Canton quadrangles along the Chicago, Milwaukee & St. Paul Railway.

The leveling was done in the Canton, Olivet, and Parker quadrangles by Alfred Tyler in 1896, and in the Elk Point quadrangle

by D. C. Wray in 1898.

The Iowa elevations in the Canton and Elk Point quadrangles and the Nebraska elevation in the Elk Point quadrangle are given in the spirit-leveling bulletins for those States, 569 and 572, respectively.

CANTON QUADRANGLE.

[Latitude 43°-43° 30'; longitude 96°-30'-97°.]

| From Centerville east along Chicago & North Western Ry. to line between |
|---|
| R. 52 W. and R. 51 W., thence south to line between Tps. 95 and 96 N., east |
| to line of Rs. 48 and 49 W., north to line of Tps. 96 and 97 W., west to line |
| of Rs. 51 and 52 W., and southwest to Centerville. |

| of Rs. 51 and 52 W., and southwest to Centerville. | | |
|--|-------------|--|
| T. 95 N., R. 51 W., northwest corner of sec 6; iron post stamped "Ynktn 1254" | | |
| T. 95 N., R. 50 W., northwest corner of sec. 6; iron post stamped | | |
| "Ynktn 1422"T. 95 N., R. 49 W., northwest corner of sec. 6; iron post stamped | 1, 421. 296 | |
| "Ynktn 1390" | 1, 389. 738 | |
| T. 95 N., R. 48 W., northwest corner of sec. 6; iron post stamped "Ynktn 1438" | 1 437 093 | |
| T. 96 N., R. 48 W., northwest corner of sec. 6; iron post stamped | | |
| "Ynktn 1485" | 1, 484. 830 | |
| T. 96 N., R. 49 W., northwest corner of sec. 6; iron post stamped "Ynktn 1538" | 1, 537, 194 | |
| T. 96 N., R. 50 W., northwest corner of sec. 6; iron post stamped | | |
| "Ynktn 1372"T. 96 N., R. 51 W., northwest corner of sec. 6; iron post stamped | 1, 371. 701 | |
| "Ynktn 1217" | 1, 216, 203 | |
| From sec. 18, T. 97 N., R. 52 W., northeast to Davis, thence east to line of Rs. 48 and 49, thence northwest to sec. 3, T. 98 N., R. 49 W. | | |
| T. 97 N., R. 51 W., northwest corner of sec. 6; iron post stamped | 1 979 440 | |
| "Ynktn 1273"T. 97 N., R. 50 W., northwest corner of sec. 6; iron post stamped | 1, 212, 446 | |
| "Ynktn 1299" | 1, 298. 770 | |

| T. 97 N., R. 49 W., northwest corner of sec. 6; iron post stampe "Ynktn 1337" | |
|---|--------------------|
| T. 97 N., R. 48 W., northwest corner of sec. 6; iron post stampe "Ynktn 1274" | ed. |
| | |
| From Parker southeast along Chicago, Milwaukee & St Paul Ry. and highway corner of Tps. 98 and 99 N., Rs. 51 and 52 W., thence east along townsh line to line of Rs. 48 and 49 W., thence northwest to sec. 7, T. 100 N | ip I., |
| R. 49 W., thence west and south to sec. 15, T. 100 N., R. 53 W. (part of line | |
| T. 98 N., R. 51 W., northwest corner of sec. 6; iron post stampe "Ynktn 1335" | 1, 334, 442 |
| T. 98 N., R. 50 W., northwest corner of sec. 6; iron post stampe "Ynktn 1349" | 1, 348, 553 |
| T. 98 N., R. 49 W., northwest corner of sec. 6; iron post stampe "Ynktn 1372" | ed |
| T. 98 N., R. 48 W., northwest corner of sec. 6; iron post stampe | ed |
| "Ynktn 1329"T. 100 N., R. 49 W., northwest corner of sec. 7; iron post stampe | 1, 329. 231 ed |
| "Ynktn 1484" | 1, 483. 566 |
| T. 100 N., R. 50 W., northwest corner of sec. 7; iron post stamped "Ynktn 1504" | ed 1, 504. 510 |
| T. 100 N., R. 51 W., northwest corner of sec. 7; iron post stamped | ed |
| "Ynktn 1534"From sec. 30, T. 99 N., R. 51 W., north along range line to line between Tps. | |
| and 100 N., thence east to line of Rs. 49 and 50 W., thence southeast to se 34, T. 99 N., R. 49 W. | |
| T. 99 N., R. 51 W., northwest corner of sec. 6; iron post stampe "Ynktn 1448" | ed1, 447, 667 |
| T. 99 N., R. 50 W., northwest corner of sec. 6; iron post stampe | ed |
| "Ynktn 1461"T. 99 N., R. 49 W., northwest corner of sec. 6; iron post stampe | -1, 461, 006 ed |
| "Ynktn 1419" | |
| PARKER QUADRANGLE. | |
| [Latitude 43°-43° 30'; longitude 97°-97° 30'.] | |
| From Yankton northeast along Chicago & North Western Ry. to Centervill thence northwest to Parker. | 0, |
| Wakonda, in front of town hall, sec. 33, T. 95 N., R. 53 W.; iron postamped "Ynktn 1390" | 1, 389, 911 |
| Hurley, in center of park, sec. 27, T. 98 N., R. 53 W.; iron postamped "Ynktn 1293" | st |
| T. 98 N., R. 53 W., northeast corner of sec. 4; iron post stamped | ed |
| "Ynktn 1300" Parker, in foundation of courthouse, sec. 17, T. 99 N., R. 53 W | 1, 299. 439 |
| bronze tablet stamped "Ynktn 1371" | 1, 372. 081 |
| From Hurley south and west to sec. 15, T. 97 N., R. 54 W., thence east as south to T. 95 N., R. 53 W. | nd v in g |
| T. 97 N., R. 53 W., northeast corner of sec. 20; iron post stampe "Ynktn 1281" | 1 280 820 |
| T. 97 N., R. 54 W., northeast corner of sec. 21; iron post stamped | ed |
| "Ynktn 1360" | . 1, 859. 967 |

| T. 96 N., R. 54 W., northeast corner of sec. 1; iron post stamped "Ynktn 1382" | Feet. |
|---|--------------|
| Irene, near township corners, sec. 1, T. 95 N., R. 54 W.; iron post | |
| stamped "Ynktn 1371" | 1, 371. 316 |
| T. 95 N., R. 53 W., northeast corner of sec. 4; iron post stamped "Ynktn 1323" | 1, 323. 002 |
| From Parker along Chicago, Milwaukee & St. Paul Ry. northwest to Marion, | |
| thence southwest to T. 98 N., R. 57 W. | |
| Freeman, southeast corner of Windmill Square, sec. 35, T. 99 N., R. | |
| 56 W.; iron post stamped "Ynktn 1514" | 1, 513. 923 |
| From Parker northeast to sec. 15, T. 100 N., R. 53 W., thence north and west to sec. 10, T. 100 N., R. 54 W., thence south to sec. 15, T. 97 N., R. 54 W. | |
| T. 100 N., R. 53 W., northeast corner of sec. 21; iron post stamped | |
| "Ynktn 1402"T. 100 N., R. 54 W., northeast corner of sec. 12; iron post stamped | 1, 402, 585 |
| T. 100 N., R. 54 W., northeast corner of sec. 12; iron post stamped "Ynktn 1358" | 1 950 010 |
| T. 99 N., R. 54 W., northeast corner of sec. 21; iron post stamped | 1, 556. 916 |
| "Ynktn 1454" | 1, 454. 718 |
| T. 98 N., R. 54 W., northeast corner of sec. 4; iron post stamped | |
| "Ynktn 1412" | 1, 412, 841 |
| T. 98 N., R. 54 W., northeast corner of sec. 21; iron post stamped "Ynktn 1346" | 1 9/6 606 |
| T. 97 N., R. 54 W., northeast corner of sec. 4; iron post stamped | 1, 540, 650 |
| "Ynktn 1302" | 1, 302. 104 |
| From Marion west and north to sec. 12, T. 100 N., R. 55 W., thence northwest | |
| to sec. 9, thence south to sec. 15, T. 97 N., R. 55 W., thence east to sec. 15, T. 97 N., R. 54 W. | |
| T. 99 N., R. 55 W., northeast corner of sec. 4; iron post stamped | |
| T. 99 N., R. 55 W., northeast corner of sec. 4; iron post stamped "Ynktn 1444" | 1, 444. 558 |
| T. 100 N., R. 55 W., northeast corner of sec. 9; iron post stamped | |
| "Ynktn 1397"T. 99 N., R. 55 W., northeast corner of sec. 21; iron post stamped | 1, 397. 445 |
| "Ynktn 1474" | 1 473 809 |
| T. 98 N., R. 55 W., northeast corner of sec. 4; iron post stamped "Ynktn 1525" | 1, 110. 002 |
| "Ynktn 1525" | 1, 525. 040 |
| T. 98 N., R. 55 W., northeast corner of sec. 21; iron post stamped | Alternative! |
| "Ynktn 1434"T. 97 N., R. 55 W., northeast corner of sec. 4; iron post stamped | 1, 433. 968 |
| "Ynktn 1615" | 1, 614, 839 |
| T. 97 N., R. 55 W., northeast corner of sec. 21; iron post stamped | |
| "Ynktn 1683" | 1, 683. 002 |
| From sec. 15, T. 97 N., R. 55 W., south to sec. 30, T. 94 N., R. 54 W. | |
| T. 96 N., R. 56 W., northeast corner of sec. 1; iron post stamped | |
| "Ynktn 1456" | 1, 455. 924 |
| T. 95 N., R. 55 W., northwest corner of sec. 6; iron post stamped | |
| "Ynktn 1311"T. 95 N., R. 55 W., northeast corner of sec. 1; iron post stamped | 1, 310. 742 |
| "Ynktn 1481" | 1, 481, 050 |
| | |

| From sec. 13, T. 98 N., R. 57 W., east 3 miles, thence north and west to sec. 12, T. 100 N., R. 57 W. | |
|--|--|
| T. 98 N., R. 56 W., northeast corner of sec. 21; iron post stamped "Ynktn 1599" | 1, 599. 546 |
| T. 99 N., R. 56 W., northeast corner of sec. 4; iron post stamped "Ynktn 1445" | 1, 445. 617 |
| OLIVET QUADRANGLE. | |
| [Latitude 43°-43° 30'; longitude 97° 30'-98°.] | |
| From Yankton along Chicago, Milwaukee & St. Paul Ry. northwest to Scotland, thence northeast to sec. 24, T. 98 N., R. 57 W. | |
| Menno, crossroads, near mill; iron post stamped "Ynktn 1327" | |
| T. 98 N., R. 57 W., northeast corner of sec. 24; iron post stamped "Ynktn 1403" | |
| From sec. 9, T. 97 N., R. 57 W., south 5 miles, thence east to corner of Tps. 96 and 97 N., Rs. 55 and 56 W. | |
| T. 96 N., R. 57 W., northeast corner of sec. 4; iron post stamped | |
| "Ynktn 1290"T. 96 N., R. 57 W., northeast corner of sec. 1; iron post stamped | 1, 290. 484 |
| "Ynktn 1307" | 1, 307. 395 |
| From sec. 36, T. 95 N., R. 57 W., north to sec. 1, thence west along township line to line between Rs. 60 and 61 W., thence north 6 miles, thence east along township line, and southeast to Scotland. | |
| T. 95 N., R. 57 W., northeast corner of sec. 1; iron post stamped | |
| "Ynktn 1442" T. 95 N., R. 58 W., northeast corner of sec. 1; iron post stamped | 1, 442. 021 |
| "Ynktn 1338" | 1, 337. 902 |
| T. 95 N., R. 59 W., northeast corner of sec. 1; iron post stamped "Ynktn 1399" | |
| T. 95 N., R. 60 W., northeast corner of sec. 1; iron post stamped | |
| "Ynktn 1526" T. 95 N., R. 61 W., northeast corner of sec. 1; iron post stamped | 1, 525. 915 |
| "Ynktn 1596" | 1, 595. 780 |
| T. 96 N., R. 61 W., northeast corner of sec. 1; iron post stamped "Ynktn 1584" | 1 509 079 |
| T. 96 N., R. 60 W., northeast corner of sec. 1; iron post stamped | and the same of th |
| "Ynktn 1446"T. 96 N., R. 59 W., northeast corner of sec. 1; iron post stamped | 1, 445. 596 |
| "Ynktn 1355" | 1, 355. 161 |
| At Olivet. | |
| Olivet, southwest corner of foundation of courthouse; bronze tablet | |
| stamped "Ynktn 1221" | 1, 220, 724 |
| From corner of Tps. 96 and 97 N., Rs. 58 and 59 W., north along range line to Tps. 98 and 99 N., thence west along township line to Rs. 59 and 60 W., thence north to line of secs. 1-12, T. 100, R. 60 W., thence west 6 miles, thence south to corner of Tps. 97 and 98 N., Rs. 60 and 61 W., thence east to corner of Tps. 97 and 98 N., Rs. 58 and 59 W. | |
| T. 97 N., R. 59 W., northeast corner of sec. 1; iron post stamped "Ynktn 1281" | 1 280 676 |
| T. 98 N., R. 59 W., northeast corner of sec. 1; iron post stamped "Ynktn 1312" | |
| | , 512, 203 |

| T. 98 N., R. 60 W., northeast corner of sec. 1; iron post stamped | |
|--|-------------|
| "Ynktn 1351"T. 99 N., R. 60 W., northeast corner of sec. 1; iron post stamped | 1, 550. 051 |
| "Ynktn 1316" | 1 216 070 |
| T. 100 N., R. 60 W., northeast corner of sec. 12; iron post stamped | 1, 510. 015 |
| "Ynktn 1301" | |
| T. 100 N., R. 61 W., northeast corner of sec. 12; iron post stamped | |
| "Ynktn 1371" | 1 971 154 |
| T. 99 N., R. 61 W., northeast corner of sec. 1; iron post stamped | 1, 311. 101 |
| "Ynktn 1393" | 1 202 721 |
| T. 98 N., R. 61 W., northeast corner of sec. 1; iron post stamped | 1, 002. 101 |
| "Ynktn 1433" | 1 433 908 |
| T. 97 N., R. 61 W., northeast corner of sec. 1; iron post stamped | 1, 100. 200 |
| "Ynktn 1528" | 1 598 184 |
| T. 97 N., R. 60 W., northeast corner of sec. 1; iron post stamped | 1, 020. 101 |
| "Ynktn 1396" | 1 395 365 |
| 1 IIKU 1590 | 1, 000. 000 |
| From sec. 9, T. 97 N., R. 57 W., north to sec. 21, T. 99 N., R. 57 W., thence | |
| west, north, and west to sec. 3, T. 99 N., R. 59 W. | |
| TO COLAY TO FEE YOU IN A COLAR AND | |
| T. 98 N., R. 57 W., northeast corner of sec. 21; iron post stamped | 1 050 050 |
| "Ynktn 1351" | 1, 350. 970 |
| T. 98 N., R. 57 W., northeast corner of sec. 4; iron post stamped | |
| "Ynktn 1355" | 1, 355. 262 |
| T. 99 N., R. 57 W., northeast corner of sec. 21; iron post stamped | |
| "Ynktn 1366" | 1, 366. 306 |
| T. 99 N., R. 58 W., northeast corner of sec. 24; iron post stamped | 4 000 450 |
| "Ynktn 1328" | 1, 327. 452 |
| T. 99 N., R. 58 W., northeast corner of sec. 4; iron post stamped | 4 000 4 15 |
| "Ynktn 1330" | 1, 330. 147 |
| Milltown, at east end of James River Bridge; iron post stamped | 1 100 511 |
| "Ynktn 1200" | 1, 199, 541 |
| From line between secs. 1 and 12, T. 100 N., R. 57 W., west to line between | |
| secs. 1 and 12, R. 59 W., thence south to Tps. 99 and 100 N. | |
| A CONTROL OF THE PARTY OF THE P | |
| T. 100 N., R. 57 W., northeast corner of sec. 12; iron post stamped | |
| "Ynktn 1410" | 1, 410. 416 |
| T. 100 N., R. 58 W., northeast corner of sec. 12; iron post stamped | |
| "Ynktn 1349" | 1, 349. 070 |
| T. 100 N., R. 59 W., northeast corner of sec. 12; iron post stamped | |
| "Ynktn 1315" | 1, 315. 152 |
| ELK POINT QUADRANGLE. | |
| ELL FOINT GURDARGLE. | |
| [Latitude 42° 30'-43°; longitude 96° 30'-97°.] | |
| From Elk Point north to sec. 6, T. 94 N., R. 49 W., thence east to line between | |
| Rs. 48-49, thence south to line between Tps. 93 and 94, thence east to Chats- | |
| worth. | |
| T. 91 N., R. 49 W., northwest corner of sec. 6; iron post stamped | |
| "Ynktn 1121" | 1 120 800 |
| 1 11Ktll 1121 | 1, 120, 000 |

T. 92 N., R. 49 W., northwest corner of sec. 6; iron post stamped

T. 93 N., R. 49 W., northwest corner of sec. 6; iron post stamped

"Ynktn 1293"_____ 1, 292, 663

"Ynktn 1347"______1, 346. 698

| T. 94 N., R. 49 W., northwest corner of sec. 6; iron post stamped | Feet. |
|--|----------------|
| "Ynktn 1383"T. 94 N., R. 48 W., near northwest corner of sec. 6; iron post stamped | 1, 381. 981 |
| "Ynktn 1358" | 1 357 145 |
| T. 93 N., R. 48 W., near northwest corner of sec. 6; iron post stamped | 1, 551. 110 |
| "Ynktn 1314" | 1, 313. 565 |
| | of Spinster |
| From Burbank north to sec. 6, T. 94 N., R. 50 W., thence west to line between Rs. 51 and 52 W., thence south to Vermillion. | |
| | |
| T. 91 N., R. 50 W., northwest corner of sec. 6; iron post stamped | 1 190 100 |
| T. 91 N., R. 50 W., northwest corner of sec. 6; iron post stamped "Ynktn 1137" T. 92 N., R. 50 W., northwest corner of sec. 6; iron post stamped "Ynktn 1235" | 1, 130. 192 |
| "Vnktn 1935" | 1, 234, 738 |
| T. 93 N. R. 50 W., northwest corner of sec. 6; iron post stamped | |
| T. 93 N., R. 50 W., northwest corner of sec. 6; iron post stamped "Ynktn 1274" | 1, 273. 821 |
| T. 94 N., R. 50 W., northwest corner of sec. 6; iron post stamped | |
| "Ynktn 1394" | 1, 393. 060 |
| T. 94 N., R. 51 W., northwest corner of sec. 6; iron post stamped | 1 007 414 |
| "Ynktn 1228"T. 93 N., R. 51 W., northwest corner of sec. 6; iron post stamped | 1, 221. 414 |
| "Ynktn 1147" | 1, 146, 776 |
| T. 92 N., R. 51 W., northwest corner of sec. 6; iron post stamped | |
| "Ynktn 1183" | 1, 182. 355 |
| | |
| From Elk Point south to sec. 6, T. 90 N., R. 49 W., thence east to line between | |
| Rs. 48 and 49 W., thence south to Jefferson. | do antido |
| T. 90 N., R. 49 W., northwest corner of sec. 6; iron post stamped | |
| "Ynktn 1128"T. 90 N., R. 48 W., northwest corner of sec. 6; iron post stamped | 1, 127. 649 |
| T. 90 N., R. 48 W., northwest corner of sec. 6; iron post stamped | |
| "Ynktn 1111" | 1, 110. 405 |
| Jefferson, northwest corner of school yard, at northwest side of walk, | William Parket |
| in stone set 4 feet underground and covered by a 3-inch pipe marked "U. S. B. M."; copper bolt (Missouri River Commission | |
| bench mark 358/3, redetermined by Coast and Geodetic Survey) | 1, 109, 180 |
| pencil maria 200, 0, 1000000000000000000000000000000 | The second |

Deadwood, Edgemont, Harney Peak, Hermosa, Oelrichs, Rapid, and Sundance quadrangles.

CUSTER, LAWRENCE, MEADE, AND PENNINGTON COUNTIES.

The elevations in the following list were originally based on a bronze tablet marked "4543," set in the city hall at Deadwood, and are stamped with the letters "DW." The elevations have been corrected to agree with the Coast and Geodetic Survey 1912 adjustment heights of bench marks near Edgemont.

The leveling was done between 1897 and 1900, by J. C. Barber, C. E. Worthington, and J. T. Stewart, with the exception of the line from Tilford to Deadwood and the leveling in the vicinity of Dead-

wood, which was done by L. F. Gottschalk.

DEADWOOD QUADRANGLE.

[Latitude 44°-44° 30'; longitude 103° 30'-104°.]

At Deadwood.

| | The same the same track of the | |
|---|--|------------------|
| | Deadwood, city hall, north entrance, in stone lintel on west side of | Feet. |
| | door; bronze tablet stamped "DW 4543" | |
| | Deadwood, city hall, under window, northwest corner of building, 2 | |
| | feet east of corner stone; top of water table | |
| | Deadwood, Chicago & Northwestern Ry. station; top of rail | 4, 533. 7 |
| | Deadwood, north side of Deadwood Avenue, east side of Deadwood | |
| | Creek, south face of southeast corner of Smith building, occupied | |
| | in part by post office; bronze tablet stamped "DW 4535" | |
| | Deadwood, Chicago, Burlington & Quincy R. R. station, in front of | |
| | ticket office; top of west rail | 4, 535. 5 |
| | From Deadwood along Chicago, Burlington & Quincy R. R. to Englewood. | |
| | area accurate and a care of a care of the | |
| | Kirk, in front of Chicago, Burlington & Quincy R. R. station; top of | |
| | rail | 4, 991. 5 |
| | Kirk, 150 feet west of Chicago, Burlington & Quincy R. R. station, 45 | |
| | feet southwest of railroad tracks, 15 feet north of wagon road, 30 | |
| | feet southwest of telegraph pole, in north side of top of quartzite | |
| | rock 3 by 2 feet; copper bolt stamped "DW 4990" | 4, 992. 084 |
| | Kirk, 2.25 miles south of, near stone quarry, east side of railroad | |
| | tracks, 25 feet south of north end of cut, top of small projection, in | F 00F F0 |
| | niche on face of rock wall, 3 feet above rails; deep rock cut Englewood, 1.25 miles north of, 60 feet south of wagon-road crossing; | 5, 325. 72 |
| | cross on flat rock. | 5 499 01 |
| | cross on hat rock | 5, 425. 91 |
| | From Englewood to Rochford. | |
| | Englewood, 0.5 mile north of, 100 feet south of crossing of two | |
| | branches of the Chicago, Burlington & Quincy R. R., 30 feet east of | |
| | Burlington & Missouri River division track, in large rock 15 by 15 | |
| | by 10 feet; bronze tablet in center of top stamped "DW 5537" | 5, 539, 1 |
| | Englewood, in front of Chicago, Burlington & Quincy R. R. station; | The later to the |
| | top of rail | 5, 591. 2 |
| | Englewood, 0.5 mile south of, 35 feet east of track, 220 feet south of | |
| | cattle guard, west side of center of ledge of light rock, just south | |
| | of rock mound; cross on flat stone | 5, 674. 95 |
| | Englewood, 1.5 miles south of, center of rock cut, 20 feet high on east | |
| | side of track, 350 feet south of whistling post, 2.5 feet above tracks; | |
| | cross on top of rock | 5, 841. 63 |
| 4 | Dumont, 0.8 mile north of, 60 feet west of wagon road crossing, 10 feet | |
| | east of wagon-road running north and south; iron post stamped | er Justinis |
| | "DW 6178" | 6, 181. 542 |
| | Dumont, opposite frog in switch, in front of section house; top of east | 0 171 1 |
| 1 | railBulldog ranch, 75 feet east of track, 50 feet northwest from wagon | 6, 151. 1 |
| | road, 15 feet southwest of post in mound of rock marked "U. S. | |
| | L. M. 73," in top of small flat rock; bronze tablet stamped "DW | |
| | 5863" | 5 885 100 |
| | | 0, 000. 190 |

| Nahant, 0.5 mile south of, 200 feet west of track, 30 feet southwest of wagon road, in northwest side of rock quarry, 14 feet above wagon | Feet. |
|--|-------------|
| road; copper bolt stamped "DW 5604" | |
| Rochford, 1.6 miles northwest of, 2,000 feet north of junction of North and South Rapid creeks, 240 feet north of bridge 92, rock cut on east side of track, 100 feet from south end of cut; cross on rock near ground | |
| Rochford, 1.2 miles west of, junction of North and South Rapid creeks, 200 feet west of track, 10 feet north of wagon road, 40 feet southeast of stream, on north side of rock 7 by 7 by 6 feet, 2.5 feet | |
| above ground; small cross | 5, 363. 58 |
| Rochford, west end of town, 30 feet north of junction of road along north bank of Rapid Creek with road from Hill City, in rock out- crop on point about 22 feet above track, 2 feet south of rock mound; | |
| copper bolt stamped "DW 5299" | 5, 301. 208 |
| Rochford, 300 feet west of railroad station, 10 feet north of track, 15 feet northeast of northeast corner of planking in road crossing, 1 foot from small mound of rock; projection in face of rock cut 1 | |
| foot above ground | 5, 229. 84 |
| From Dachford to Dadform | |
| From Rochford to Redfern. | |
| Rochford station, 3.5 miles southeast of, 100 feet northeast of bridge 79, 150 feet southeast of fork in wagon road, 25 feet northeast of road, in top of northwest one of two large slate rocks; copper bolt | |
| stamped "DW 4970" Rochford station, 4.5 miles southeast of, 220 feet southeast of bridge 77, 8 feet southwest of track; projection in wall of rock cut 1.5 | 4, 972. 238 |
| feet above tracks | 4, 901. 22 |
| Mystic, 3,500 feet northeast of, 300 feet south of signpost marked | |
| "Mystic," 40 feet west of track, 20 feet west of wagon road; wire nail in root of large spruce tree | 1 820 04 |
| Mystic, 1,500 feet west of sawmill near section house, 400 feet north- east of post office, 100 feet northwest of wagon road, 200 feet northwest of tracks, 7 feet above foot of rock outcrop on point, in | |
| east corner; copper bolt stamped "DW 4865" Mystic, 4.5 miles southwest of, north end of divide between Castle and Slate creeks, 3,500 feet northwest of bridge 68 over Slate Creek, 350 feet south of garden patch, 15 feet east of wagon road, 30 feet | 4, 867. 525 |
| west of track, 50 feet southwest of "P. T." post, 30 feet north of | |
| end of waste dump; iron post stamped "DW 5514" | |
| Redfern, at section house; top of road crossing | 0, 633. 2 |
| From Sturgis to Whitewood. | |
| Sturgis, about 0.5 mile northwest of Chicago & Northwestern Ry. station and 105 feet northeast of the first road crossing; iron post stamped "DW 3484" | 3 486 669 |
| Whitewood, 1 mile southeast of, 50 feet south of Sturgis and White- | 0, 100, 000 |
| wood wagon road, 70 feet southwest of road crossing, 0.25 mile | |
| east of northwest corner of sec. 27, T. 6 N., R. 4 E.; iron post stamped "DW 3590" | 9 500 000 |
| Stamped DW 5000 | 5, 592. 288 |

From Deadwood east along public road to Sturgis.

| are and a trademant of the contract of the con | |
|--|-------------|
| Deadwood, 2.25 miles east of, west of powder house and east of over- hanging rock, just north of road crossing, on northeast side of 20-inch dead pine tree; spike in root | Feet. |
| Deadwood, 4.25 miles east of, south side of road about 1 mile east of Deadwood fair grounds, and about 75 feet east of wagon bridge | |
| over Peedee Creek, on a flat bench; iron post stamped "DW 4454"_Deadwood, 5 miles east of, south side of road, opposite limestone ledge between two projecting ledges, southwest of projecting ledge | 4, 455, 925 |
| with large anvil-shaped rock on top, on north side of 18-inch pine tree; spike | 4, 286. 91 |
| Sturgis, 5.8 miles west of, at point where road makes a sharp turn to the east toward Boulder Park, after leaving the main divide on the north side, in root on north side of 15-inch burr oak tree; spike | 4, 147. 19 |
| Sturgis, 3.8 miles west of, on south side of road, 460 feet east of the "Barroom" and 50 feet southwest of bridge across Bear Butte Creek; top of large limestone bowlder; copper bolt stamped | |
| "DW 3814"Sturgis, 1.25 miles west of, on south side of road and about 400 feet | 3, 816. 310 |
| northeast of deserted log cabin on west side of mouth of canyon, at extreme north end of Bear Butte Canyon; top of north end of stone | 3, 578. 14 |
| Sturgis, at first road crossing west of station, northeast of signboard, north of Chicago & Northwestern Ry. track, in root on southwest | |
| side of scrub-oak tree; spikeFrom Deadwood via Centennial Park to Whitewood. | 3, 400. 00 |
| Deadwood, 4.5 miles north of, about 63 feet east of southeast corner of a large two-story dwelling known as the "Halfway House," | 1 000 105 |
| just east of forks of road; iron post stamped "DW 4360" Deadwood, 6.5 miles north of, 500 feet southeast of round stone water tank at Centennial Park, southeast of intersection of Deadwood- | 4, 362, 125 |
| Spearfish road with old Spearfish-Whitewood road; iron post stamped "DW 4005" | 4, 006, 823 |
| feet east of Chicago & Northwestern Ry. track; iron post stamped "DW 3751" | 3, 753. 631 |
| From Sturgis along Spring Creek public road north about 5 miles. | |
| Sturgis, 5 miles northwest of, 400 feet southwest of large red barn with two ventilators on top, about 2,050 feet north of southwest corner of sec. 17, T. 6 N., R. 5 E., on east side of Spring Creek road; iron post stamped "DW 3308" | 3, 310. 241 |
| From Runkel along Chicago, Burlington & Quincy R. R. to Englewood. | |
| Runkel, 450 feet east of station, 15 feet north of track, just southwest of sawmill, on top of 10 by 15 by 8 foot limestone bowlder; copper | dy lance |
| bolt stamped "DW 4498" | 4, 500. 513 |
| "DW 4720" | |

| | Feet. |
|--|---|
| Elk Creek station, in front of; top of rail | |
| Elk Creek station, 0.5 mile west of, 30 feet south of railroad, 60 | and man |
| feet south of point where Galena and Greenwood road crosses | |
| track; iron post stamped "DW 4882" | 4, 884. 174 |
| Anthony station, at west end of; top of frog | 4, 979. 8 |
| Perry, 1.5 miles east of, 30 feet northeast of switch, at junction of | |
| Este branch Chicago, Burlington & Quincy R. R., on top of point of | |
| ledge; copper bolt stamped "DW 5269" | |
| Portuguese siding, at signpost; top of rail | |
| Perry, southeast corner of platform, at road crossing; top of rail | 5, 402. 4 |
| Brownsville, 650 feet southeast of station, 20 feet west of track, 60 feet northwest of road crossing, 80 feet southwest of second switch | |
| block from station; iron post stamped "DW 5496". | 5 498 143 |
| Brownsville, in front of station; top of rail | |
| Woodville, 1.5 miles east of, 3.5 miles northwest of Brownsville, 20 | |
| feet east of Elk Creek-Kirk wagon road, 25 feet north of railroad; | |
| iron post stamped "DW 5743" | 5, 745. 104 |
| Woodville, switch block in front of station; top of rail | 5, 935. 9 |
| Woodville, 80 feet southeast of switch at station, 35 feet south of | |
| main track, in top of a large quartzite bowlder; copper bolt | |
| stamped "DW 5938" | |
| Englewood, 0.5 mile north of, opposite Burlington & Missouri River | |
| R. R. transfer station; top of rail | . 0, 040.0 |
| From Englewood along Spearfish branch of Chicago, Burlington & Quincy R. R. | |
| to Spearfish. | |
| Englewood, 2 miles northwest of, 40 feet north of track and 40 feet | |
| | |
| west of Dumont-Lead City wagon road, about 75 feet northwest of | State |
| bridge over railroad; iron post stamped "DW 5862" | 5, 864. 085 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line | 5, 864. 085 6, 166. 1 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short | 5, 864, 085 6, 166, 1 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze | 5, 864. 085 6, 166. 1 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" | 5, 864. 085 6, 166. 1 6, 167. 286 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" Portland, in front of station; top of rail | 5, 864. 085 6, 166. 1 6, 167. 286 6, 431. 8 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" Portland, in front of station; top of rail Portland, 600 feet northwest of station, at forks of wagon road 60 | 5, 864. 085 6, 166. 1 6, 167. 286 6, 431. 8 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" Portland, in front of station; top of rail Portland, 600 feet northwest of station, at forks of wagon road 60 feet northeast of railroad (the only crossing between North and | 5, 864. 085 6, 166. 1 6, 167. 286 6, 431. 8 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" Portland, in front of station; top of rail Portland, 600 feet northwest of station, at forks of wagon road 60 feet northeast of railroad (the only crossing between North and South Portland); iron post stamped "DW 6426" | 5, 864. 085 6, 166. 1 6, 167. 286 6, 431. 8 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" Portland, in front of station; top of rail Portland, 600 feet northwest of station, at forks of wagon road 60 feet northeast of railroad (the only crossing between North and South Portland); iron post stamped "DW 6426" | 5, 864. 085 6, 166. 1 6, 167. 286 6, 431. 8 6, 428. 097 6, 155. 6 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" Portland, in front of station; top of rail Portland, 600 feet northwest of station, at forks of wagon road 60 feet northeast of railroad (the only crossing between North and South Portland); iron post stamped "DW 6426" Crownhill, in front of station; top of rail | 5, 864, 085 6, 166, 1 6, 167, 286 6, 431, 8 6, 428, 097 6, 155, 6 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" Portland, in front of station; top of rail Portland, 600 feet northwest of station, at forks of wagon road 60 feet northeast of railroad (the only crossing between North and South Portland); iron post stamped "DW 6426" | 5, 864, 085 6, 166, 1 6, 167, 286 6, 431, 8 6, 428, 097 6, 155, 6 6, 155, 074 5, 218, 3 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" Portland, in front of station; top of rail Portland, 600 feet northwest of station, at forks of wagon road 60 feet northeast of railroad (the only crossing between North and South Portland); iron post stamped "DW 6426" Crownhill, in front of station; top of rail Crownhill, 60 feet south of station, 40 feet west of track; iron post stamped "DW 6153" Elmore, in front of water tank; top of rail Elmore, 120 feet west of water tank, 80 feet south of section house | 5, 864, 085 6, 166, 1 6, 167, 286 6, 431, 8 6, 428, 097 6, 155, 6 6, 155, 074 5, 218, 3 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" Portland, in front of station; top of rail Portland, 600 feet northwest of station, at forks of wagon road 60 feet northeast of railroad (the only crossing between North and South Portland); iron post stamped "DW 6426" Crownhill, in front of station; top of rail | 5, 864, 085 6, 166, 1 6, 167, 286 6, 431, 8 6, 428, 097 6, 155, 6 6, 155, 074 5, 218, 3 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" | 5, 864, 085 6, 166, 1 6, 167, 286 6, 431, 8 6, 428, 097 6, 155, 6 6, 155, 074 5, 218, 3 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" | 5, 864. 085 6, 166. 1 6, 167. 286 6, 431. 8 6, 428. 097 6, 155. 6 6 6, 155. 074 5, 218. 3 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" | 5, 864. 085 6, 166. 1 6, 167. 286 6, 431. 8 6, 428. 097 6, 155. 6 6 6, 155. 074 5, 218. 3 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" Portland, in front of station; top of rail Portland, 600 feet northwest of station, at forks of wagon road 60 feet northeast of railroad (the only crossing between North and South Portland); iron post stamped "DW 6426" Crownhill, in front of station; top of rail Crownhill, 60 feet south of station, 40 feet west of track; iron post stamped "DW 6153" Elmore, in front of water tank; top of rail Elmore, 120 feet west of water tank, 80 feet south of section house 40 feet south of track; iron post stamped "DW 5218" Spearfish, 14 miles south of, 500 feet northwest of switch block at Savoy, in center of top of 12 by 12 by 20 foot limestone bowlder between Spearfish River and railroad, 40 feet northeast of railroad; bronze tablet "DW 4954" | 5, 864. 085 6, 166. 1 6, 167. 286 6, 431. 8 6, 428. 097 6, 155. 6 6, 155. 074 5, 218. 3 5, 220. 616 6, 4, 956. 178 |
| bridge over railroad; iron post stamped "DW 5862" | 5, 864. 085 6, 166. 1 6, 167. 286 6, 431. 8 6, 428. 097 6, 155. 6 1 6, 155. 074 5, 218. 3 5, 220. 616 1 4, 956. 178 4, 465. 9 |
| bridge over railroad; iron post stamped "DW 5862" Terry, in front of station; top of north rail of main line Terry, 225 feet north of station, 30 feet east of north end of a short switch, on ledge about 2 feet above the surface of ground; bronze tablet stamped "DW 6165" Portland, in front of station; top of rail Portland, 600 feet northwest of station, at forks of wagon road 60 feet northeast of railroad (the only crossing between North and South Portland); iron post stamped "DW 6426" Crownhill, in front of station; top of rail Crownhill, 60 feet south of station, 40 feet west of track; iron post stamped "DW 6153" Elmore, in front of water tank; top of rail Elmore, 120 feet west of water tank, 80 feet south of section house 40 feet south of track; iron post stamped "DW 5218" Spearfish, 14 miles south of, 500 feet northwest of switch block at Savoy, in center of top of 12 by 12 by 20 foot limestone bowlder between Spearfish River and railroad, 40 feet northeast of railroad; bronze tablet "DW 4954" | 5, 864. 085 6, 166. 1 6, 167. 286 6, 431. 8 6, 428. 097 6, 155. 6 6 5, 218. 3 5, 220. 616 6 4, 956. 178 4, 465. 9 |
| bridge over railroad; iron post stamped "DW 5862" | 5, 864. 085 6, 166. 1 6, 167. 286 6, 431. 8 6, 428. 097 6, 155. 6 6, 155. 074 5, 218. 3 5, 220. 616 6, 4956. 178 4, 465. 9 |
| bridge over railroad; iron post stamped "DW 5862" | 5, 864. 085 6, 166. 1 6, 167. 286 6, 431. 8 6, 428. 097 6, 155. 6 1 6, 155. 074 5, 218. 3 5, 220. 616 1 4, 956. 178 4, 465. 9 |

| Spearfish, 3.5 miles south of, 460 feet south of Spearfish electric-light | |
|--|-------------|
| plant and 50 feet east of track, between track and Spearfish River; | |
| iron post stamped "DW 3892"Spearfish, in front of station; top of rail | |
| Spearfish, southwest corner of Star & Bullock stone building on cor- | |
| ner of Sixth and I streets, in water table; bronze tablet stamped | |
| "DW 3647" | |
| | 0, 010. 100 |
| From Spearfish along public roads to Centennial Park. | |
| Speanfish 45 miles southeast of 50 feet south of average 960 feet | |
| Spearfish, 4.5 miles southeast of, 50 feet south of crossroads, 260 feet southwest of water tank, about 50 feet southeast of southeast | |
| corner of sec. 18, T. 6 N., R. 3 E.; iron post stamped "DW 3942" | 2 944 196 |
| Spearfish, 6 miles southeast of, 40 feet southeast of southeast corner | |
| stone of sec. 16, T. 6 N., R. 3 E., 20 feet south of wagon road; | |
| iron post stamped "DW 3815" | 3, 817, 188 |
| | |
| From Woodward ranch via Cold Springs to Bulldog ranch. | |
| Woodward ranch, 1.25 miles south of, 1,000 feet southeast of Scott's | |
| unfinished cabin, 6 inches below top of limestone outcrop, 200 | |
| feet southwest of spring; witness tree 15 feet southeast, 10-inch | |
| pine; witness tree 125 feet west, 10-inch pine; copper bolt stamped | |
| "DW 6681" | 6, 683. 438 |
| Castle Creek, head of, in west side and 2 feet below top of limestone | |
| outcrop 10 by 10 feet. 150 feet northeast of intersection of Castle | |
| Creek, Cold Springs, and Newcastle roads; witness tree 150 feet | |
| north, 18-inch pine; witness tree 200 feet east, 18-inch pine; copper | |
| bolt stamped "DW 6536" | 6, 538. 245 |
| Cold Springs, 300 feet north of, in limestone ledge 15 feet higher | |
| than creek bed, 150 feet north of point where Cheyenne-Deadwood | |
| road crosses creek, 100 feet west of road, 200 feet west of road running south to head of Castle Creek; ledge shows out of ground | |
| 10 feet in length and 2 feet high; copper bolt stamped "DW 6417"_ | C 410 100 |
| McQuaig road and Cheyenne-Deadwood road, 1 mile north of inter- | 6, 419. 199 |
| section of, east of road; nail in root of pine tree | 6 567 0 |
| McQuaig road and Cheyenne-Deadwood road, intersection of, 2 miles | 0, 501. 5 |
| west of Colton ranch, in shelf of limestone cliff, 10 feet high and | |
| 15 feet long, on south bank dry creek channel, 100 feet south of the | |
| road intersection, 3 feet below top of cliff on the part farthest | |
| south and west; copper bolt stamped "DW 6464" | 6, 466, 713 |
| Colton ranch, 800 feet west of, 20 feet north of road; nail in side of | , |
| big pine tree | 6, 300. 85 |
| Besant, 2 miles west of, on north edge of highway; nail in root of | |
| pine tree | 6, 592. 16 |
| Bulldog ranch, 2.25 miles west of, 300 feet south of dwelling at | |
| abandoned sawmill, 20 feet east of wire fence at road intersection; | |
| nail in root of spruce tree | 6, 064. 89 |
| Bulldog ranch, 0.7 mile west of; nail in root of balsam tree at edge | Dall's all |
| of timber | 5, 965. 72 |
| | |

| From Bulldog ranch, on Chicago, Burlington & Quincy R. R., east to Nasby. | |
|---|---------------------|
| Bulldog ranch, 1 mile east of, in middle of road; nail in root of large pine tree | Feet. 6, 008. 82 |
| Bulldog ranch, 3 miles east of, south edge of highway, 150 feet east of log house; nail in root of large pine tree | 5, 818. 38 |
| Dayton ranch, 0.4 mile east of, ridge south side of highway, 50 feet north of fence; nail in root of large pine tree | 5, 730. 81 |
| Rassumussen ranch, 0.25 mile east of, 20 feet from gate; nail in root of pine tree | |
| Nasby, 200 feet north of dwelling, 50 feet northwest of road intersection; iron post stamped "DW 5456" | |
| From Nasby southeast to Merritt. | 0, 200, 020 |
| Peterson ranch, 150 feet east of dwelling, on west side of road; iron | |
| post stamped "DW 5322"Peterson ranch, 1 mile southeast of, 20 feet west of road, 800 feet | 5, 324, 302 |
| south of top of ridge; nail in root of 15-inch pine tree Merritt, 0.8 mile west of, stone at fence corner northwest of inter- | 5, 395. 46 |
| section of Silver City and Merritt roads; point 1 inch west of piece | ~ 100 11 |
| of white quartz in northwest end of stone Merritt, at post office, 60 feet northeast of ranch on north side of | |
| read; iron post stamped "DW 5059" | 5, 061. 340 |
| From Chicago, Burlington & Quincy R. R. bridge 74, about 1.5 miles northeast of Mystic, to Silver City and Pactola. | |
| Castle Creek, 150 feet west of junction with Rapid Creek, 35 feet north of small highway bridge over Rapid Creek, 40 feet east of cabin; | |
| wire nail in southeast side of 18-inch pine stump | 4, 772. 72 |
| Castle Creek, 4,500 feet southeast of mouth, 40 feet south of small | 1000 W |
| highway bridge over Rapid Creek, 12 feet west of south end of high trestle bearing flume, 10 feet southeast of wagon road; point | |
| on west face of columnar rock 18 inches above ground | 4, 727. 06 |
| Silver City, 2.8 miles west of, 5 feet north of road up Rapid Creek, 30 feet west of junction with Merritt Road, southeast corner of high | |
| point of rock, on small shelf 2.5 feet above road; location marked | |
| by spruce tree 1 foot in diameter west 145 feet and three pine trees marked "U. S. G. S. B. M. W. T.," one 2.5 feet in diameter east 120 | |
| feet, one 15 inches in diameter northeast 100 feet, and one 1 foot in | 4 700 000 |
| diameter north 65 feet; bronze tablet stamped "DW 4698" Silver City, 1.6 miles west of, 40 feet southwest of highway bridge | 4, 700. 228 |
| over Rapid Creek, at mouth of deep gulch coming in from the southwest, west side of 18-inch spruce tree; spike in root | 1 661 10 |
| Silver City, 1,200 feet east of post office, 110 feet southwest of high- | 4, 001. 18 |
| way bridge over Rapid Creek, 15 feet southwest of junction of road down Nugget Gulch with road down Rapid Creek; iron post | |
| stamped "DW 4592" | 4, 594, 233 |
| Silver City, 1.9 miles east of, at mouth of Jenny Gulch, 220 feet east of highway bridge over Rapid Creek, 40 feet northeast of highway | |
| bridge over ditch, 200 feet east of head gates; spike in north side | 1 =10 == |
| of 15-inch pine treePactola, 1.8 miles west of, 15 feet southwest of road to Silver City, | 4, 548. 28 |
| 350 feet northwest of junction with road running up Bear Gulch, | |
| 220 feet north of house, near two pine trees marked "U.S.G.S.B.M.W.T.," one 20 inches in diameter southeast 35 feet, one 2.5 | |
| feet in diameter west 25 feet; iron post stamped "DW 4518" | 4, 520. 171 |

From Pactola northwest to Merritt.

| Pactola, 1.2 miles northwest of, 50 feet southwest of road to Merritt, 80 feet east of plank fence, at top of steep hill; spike in west root of 15-inch pine tree | Feet. 4, 743. 38 |
|---|--|
| tween Rapid and Deer creeks, 20 feet southwest of road from Pactola to Merritt, on north side of 15-inch pine tree; spike in root_Pactola, 3 miles northwest of, 0.25 mile northwest of Hughes ranch, 35 feet southwest of road from Pactola to Merritt, 190 feet northwest of fork in road; two witness trees marked "U.S.G.S.B.M. | 4, 887. 28 |
| W. T.," 6 inches in diameter northwest 200 feet; iron post stamped "DW 4934" | 4, 936, 345 |
| Ireland ranch, 500 feet northwest of, 25 feet southwest of road from Pactola to Merritt; northwest side of 2.5 foot pine tree; spike in | |
| Merritt post office (Jones ranch), 3,000 feet southeast of, in fork of road from Pactola to Merritt, 8 feet below and 140 feet northwest of top of divide between Jim and Deer creeks, southwest side of 13-inch pine tree; large wire spike in root | |
| From Merritt east down Jim Creek. | |
| Merritt, 0.8 mile northeast of, 4 feet south of road down Jim Creek, 350 feet east of fence, in west side of 20-inch pine tree; wire nail_Merritt, 2.5 miles northeast of, 25 feet south of wagon road down Jim | 4, 998. 25 |
| Creek, 65 feet south of old cabin, 330 feet east of fence, north side of 2.5-foot pine tree; wire nail in root | 4, 823, 85 |
| fence; spike in root south side | 4, 746. 45 |
| spike | 4, 776. 82 |
| From Nemo via Greenwood to Nasby. | |
| Nemo, 0.8 mile southeast of, 35 feet northeast of road down Box- | STATE OF THE STATE |
| elder Creek, 900 feet northeast of bridge over Boxelder Creek, on rocky point, in west root of 18-inch pine tree; spike Nemo, 500 feet northwest of, 10 feet southwest of road to Greenwood, on top of slight ridge, northwest side of 24-inch pine tree; spike | 4, 654. 37 |
| in root Nemo, 3,500 feet northwest of, junction of road from Greenwood with | 4, 706. 92 |
| road from Elk Creek, in root of 15-inch pine tree; spike Greenwood, 2 miles southeast of, 10 feet northeast of road to Nemo, at junction of county road from Elk Creek to Nemo; near three pine trees marked "U. S. G. S. B. M. W. T.," one 20 inches in diam- eter southeast 105 feet, one 20 inches in diameter northwest 35 feet, one 18 inches in diameter southwest 70 feet; iron post stamped "DW 4786" | |
| Greenwood, 1 mile southeast of, top of divide between Greenwood | 2, 101. 000 |
| and Nemo, 8 feet north of county road; spike in east root of 18- inch pine | 4, 997. 91 |

| Greenwood, 100 feet southeast of large dwelling, at northwest corner of highway bridge over Boxelder Creek; spike in root on north | Feet. |
|---|-------------|
| side of 18-inch pine tree | 4, 925. 30 |
| Greenwood, 1.1 miles northwest of, 30 feet west of road to Deadwood | |
| at point where timber road turns toward Nasby, across road from group of old log cabins, 250 feet northwest of highway bridge over | |
| Boxelder Creek, near two pine trees, one marked "U. S. G. S. B. M. | |
| W. T.," 15 inches in diameter southeast 18 feet, one 30 inches in | |
| diameter northeast 40 feet; iron post stamped "DW 5020" | 5, 022, 013 |
| Johnson ranch, 1.8 miles northeast of, 6 feet northwest of county | |
| road, 150 feet northeast of road crossing over Boxelder Creek, | |
| southwest side of 15-inch pine tree; spike in root | 5, 101. 97 |
| Anderson ranch, 1,000 feet southeast of, 10 feet southwest of road; | |
| iron post stamped "DW 5204" | 5, 205. 958 |
| Nelson ranch, 2,000 feet southwest of, 60 feet southeast of road, 180 | |
| feet southwest of forks in road running south across Boxelder Creek, in north root of 24-inch pine tree; spike | 5 200 02 |
| Creek, in north root of 24-inch pine tree, spike | 5, 500. 55 |
| From Slate Creek schoolhouse via Castle Creek and Cold Springs to Bulldog | |
| ranch. | |
| Slate Creek schoolhouse, 1.5 miles northwest of, 25 feet northeast of | |
| intersection of Hill City and Lookout roads, center of east side and | |
| 1 foot below top of highest slate outcrop; copper bolt stamped | |
| "DW 6146" | 6, 148. 158 |
| Kinney ranch, 500 feet east of, 125 feet south of bridge over Castle | |
| Creek, on Hill City road, west side of road east of Castle Creek; | |
| iron post stamped "DW 5737" | 5, 739. 297 |
| Reynolds ranch, 1 mile south of, intersection of Rochford, Hill City, and Castle Creek roads; iron post stamped "DW 6029" | 6 021 242 |
| Shick ranch, 0.5 mile east of, 275 feet west of intersection of Roch- | 0, 051. 542 |
| ford and Castle Creek roads, 50 feet north of road, 6 feet from | |
| highest point of outcrop, in slate ledge 12 feet higher than road; | |
| copper bolt stamped "DW 6007" | 6, 009. 281 |
| Johnson ranch, 700 feet northwest of, 2.5 feet north of section corner | |
| on township line, 250 feet north of Castle Creek road, 60 feet west | |
| of road to Smith ranch; iron post stamped "DW 6363" | 6, 365. 398 |
| Castle Creek, head of, in west side and 2 feet below top of limestone | |
| outcrop 10 by 10 feet, 150 feet northeast of intersection of Castle Creek, Cold Springs, and Newcastle roads; copper bolt, stamped | |
| "DW 6536" | 6, 538, 245 |
| Thowell ranch, 0.5 mile west of, 25 feet southwest of fork of road to | 0,000.210 |
| ranch; iron post stamped "DW 6769" | 6, 771. 166 |
| Cold Springs, 300 feet north of, 150 feet north of point where Chey- | |
| enne-Deadwood road crosses creek, 100 feet west of road, in lime- | |
| stone ledge, 15 feet higher than creek bed, which shows out of | |
| ground 10 feet in length and 2 feet high; copper bolt stamped | 6 410 100 |
| "DW 6417"Besant, 2.3 miles west of, north side of road, near edge of small park; | 0, 419. 199 |
| iron post stamped "DW 6547" | 6, 549, 351 |
| Besant, 0.2 mile southeast of, south side of road; iron post stamped | 1,010,001 |
| "DW 6433" | 6, 435. 386 |
| Fish timber camp, 100 feet south of, 50 feet west of stable, south edge | |
| of road; iron post stamped "DW 6284" | 6, 286. 321 |
| | |

| B | Z SPIRIT LEVELING IN SOUTH DARVIN, 1000 TO 1010. | |
|---------|---|--------------------------|
| | ulldog ranch, 75 feet east of track, 50 feet northwest from wagon road, 15 feet southwest of post, in mound of rock, marked "U. S. L. M. 73," in top of small flat rock; bronze tablet stamped "DW 5863" | Feet. 5, 865. 198 |
| Fr | rom Spearfish along Spearfish and Bear Gulch road to Powers sawmill site. | |
| | pearfish, water table of Star & Bullock Building; bronze tablet stamped "DW 3647" | 3, 649. 455 |
| B | rown ranch, 200 feet southwest of, south side of road; iron post stamped "DW 4224" | |
| | rown ranch, 4.1 miles southwest of, 2.3 feet north of corner common to secs. 1, 6, 31, and 36, Tps. 5 and 6 N., Rs. 1 and 2 E.; iron post stamped "DW 5131" | 5, 133, 124 |
| Pe | owers sawmill site, 400 feet north of, north side of road; iron post stamped "DW 5437" | |
| | From Elmore via Cheyenne Crossing to Block ranch and return. | |
| Cl | lmore, west of section house; iron post stamped "DW 5218"heyenne Crossing, 20 feet northwest of, intersection of road to Elmore with old Deadwood-Cheyenne stage road; iron post stamped "DW 5308" | |
| Bi | lock ranch, 75 feet northeast of, mouth of Deadhorse Canyon, west side of road; iron post stamped "DW 5610"lock ranch, 1.8 miles northwest of, west side of town line, 1,000 feet south of corner common to secs. 24 and 25, R. 1 E., and secs. 19 and | |
| | 30, R. 2 E.; iron post stamped "DW 6140" | 6, 142. 156 |
| | EDGEMONT QUADRANGLE. | |
| | [Latitude 43°-43° 30'; longitude 103° 30'-104°.] | |
| | From Ivanhoe via Minnekahta to Hot Springs. | |
| | vanhoe, 2,000 feet northeast of, 60 feet southeast of crossing of Pringle-Minnekahta road, 10 feet northeast of corner fence post; iron post stamped "DW 4443" | |
| M | linnekahta, 800 feet northeast of station, 100 feet northeast of switch stand at east end of Y, 50 feet north of track, 5 feet south- | |
| | east of corner fence post; iron post stamped "DW 4159" | |
| M | linnekahta, 3.5 miles east of, 850 feet east of road crossing, 40 feet north of track, 16 feet east of north-south wire fence; iron post | |
| M En | tinnekahta, 3.5 miles east of, 850 feet east of road crossing, 40 feet north of track, 16 feet east of north-south wire fence; iron post stamped "DW 4061"rskine, road crossing at platform; top of railrskine, 2,500 feet northeast of, 150 feet northwest of Minnekahta-Hot Springs road crossing, near bridge 5, 30 feet north of wagon road at nearest point, 2 feet south of rock mound, top of south cor- | 4, 063, 307 3, 817, 4 |
| M En | tinnekahta, 3.5 miles east of, 850 feet east of road crossing, 40 feet north of track, 16 feet east of north-south wire fence; iron post stamped "DW 4061" | 4, 063, 307 3, 817, 4 |
| M En | tinnekahta, 3.5 miles east of, 850 feet east of road crossing, 40 feet north of track, 16 feet east of north-south wire fence; iron post stamped "DW 4061"rskine, road crossing at platform; top of railrskine, 2,500 feet northeast of, 150 feet northwest of Minnekahta-Hot Springs road crossing, near bridge 5, 30 feet north of wagon road at nearest point, 2 feet south of rock mound, top of south cor- | 4, 063, 307 3, 817, 4 |

| and the transfer of the second second second second second second second second |
|--|
| Arnold ranch. 3 miles south of, 350 feet north and 300 feet east of |
| railroad trestle 6, east bank of creek, 300 feet east of railroad; iron Feet. |
| Post stamped "3891 DW"3, 893. 214 |
| Chilson, 0.4 mile west of section house, 75 feet south of wagon-road |
| crossing; iron post stamped "3795 DW" 3, 797. 316 |
| Edgemont, 2.9 miles northeast of, 150 feet south of Red Canyon, 75 |
| feet east of wagon road, 50 feet west of railroad; iron post stamped |
| " 3460 DW " 3, 462. 251 |
| Edgemont, north end of Chicago, Burlington & Quincy R. R. Hotel |
| park, 50 feet west of main track; iron post stamped "3449 DW"a3, 451. 404 |
| Edgemont, 4 miles northwest of, 450 feet southeast of railway pile |
| bridge 206, 100 feet southwest of railway track, northeast side of |
| wagon road; iron post stamped "3463 DW"a 3, 465, 354 |
| Marietta, 80 feet southwest of, near track at section house, 25 feet |
| northeast of wagon road; iron post stamped "3486 DW"a 3,488.297 Marietta, 2.7 miles northwest of, 300 feet southeast of trestle 213, 100 |
| feet southwest of railroad track, 200 feet north of wagon road; |
| iron post stamped "3544 DW"a3,546,453 |
| Argentine, 175 feet south of water tank, 100 feet southwest of main |
| track, 40 feet northeast of wagon road; iron post stamped |
| "3632 DW"a 3, 634, 366 |
| Moss Agate Creek, west bank, 1.8 miles southwest of junction with |
| Cheyenne River, 100 feet west of steep bank, 70 feet above creek |
| and a quarter of a mile west of it; iron post stamped "3612 DW"_ 3, 614. 304 |
| Later the second |
| From Edgement via Maitland post office and Cascade Springs to Hot Springs. |
| Edgemont, 2.1 miles southeast of, at top of bluff, 25 feet south of |
| road; iron post stamped "3671 DW"3, 673. 281 |
| Edgement, 5.8 miles southeast of, 75 feet southeast of intersection of |
| Edgemont, Ardmore, and Maitland post-office roads; iron post |
| stamped "3578 DW"3, 580. 312 |
| Edgemont, 8.6 miles southeast of, 25 feet north of road, top of ridge; |
| iron post stamped "3575 DW"3,577. 182\' Edgemont, 10.6 miles southeast of, 0.2 mile east of Plum Creek, 0.3 |
| mile south of Cheyenne River, top of small ridge 25 feet south of |
| road; iron post stamped "3350 DW"3,352,275 |
| Maitland post office (Brady ranch), 200 feet southwest of, quarter |
| corner on south side of sec. 24, T. 9 S., R. 4 E.; iron post stamped |
| "3327 DW"3, 328, 869 |
| Maitland post office, 2 miles northeast of, top of highest ridge on |
| Maitland and Cascade wagon road, 25 feet north of road; iron post |
| stamped "3521 DW"3, 523. 281 |
| T. 8 S., R. 4 E., southeast corner of, quarter of a mile northwest of |
| Coffey Flat schoolhouse; iron post stamped "3261 DW" 3, 263, 215 |
| Cascade Springs, 300 feet west of sanitarium, in sandstone rock 3 feet |
| higher than creek, between wagon road and creek; bronze tablet |
| stamped "3406 DW"3, 408, 213 |
| Cascade Springs, 3.4 miles northeast of, west side of canyon, 200 feet |
| east of deserted house, 25 feet north of road; iron post stamped |
| "3835 DW"3, 837, 164 |
| Cascade Springs, 5.9 miles northeast of, 3.6 miles southwest of Hot |
| Springs, 25 feet west of road on ridge; iron post stamped "3826 |
| DW" 3, 828. 123 |
| |

^{*} Redetermined by Coast and Geodetic Survey precise leveling.

| | SPIRIT LEVELING IN SOUTH DAKOTA, 1896 TO 1915. | |
|---|--|---------------------|
| | From Edgement up Cottonwood Creek 6 miles, thence southeast to Provo, thence along Chicago, Burlington & Quincy R. R. to Ardmore. | |
| | Edgemont, 3 miles southwest of, 75 feet northwest of Cottonwood Creek, east side of railroad track; iron post stamped "3528 DW". Edgemont, 6 miles southwest of, 800 feet southeast of Cottonwood Creek, about 800 feet north of draw running northwest and empty- | Feet. 3, 530. 27 |
| | ing into it, and about 900 feet north of two high buttes; iron post stamped "3634 DW" | 3, 636. 118 |
| | Edgement, 9.2 miles southwest of, junction of roads running south and southwest, at top of divide; iron post stamped "3839 DW"; | |
| | Edgement, 12 miles southwest of, 2.5 miles west of Provo, 10 feet north of abandoned wagon road to Provo, 1 mile south of sheep | |
| | corral; iron post stamped "3710 DW" 8 Provo, 500 feet southeast of, 35 feet northeast of wagon-road cross- | |
| | ing; iron post stamped "3708 DW"3 Provo, 3 miles east of, 50 feet north of Chicago, Burlington & Quincy | |
| | R. R. track; iron post stamped "3632 DW"3 Provo, 6 miles east of, 2 miles northwest of Rumford, 60 feet south- | |
| | west of railway track; iron post stamped "3532 DW"3 Rumford, 0.5 mile southeast of, 75 feet south of southeast end of | , 534, 212 |
| | siding, 65 feet southwest of main track, 300 feet east of wagon road; iron post stamped "3500 DW"3 Rumford, 3 miles southeast of, 60 feet east of wagon road, 600 feet | , 502. 071 |
| | south of bridge over wagon road, 650 feet west of track; iron post stamped "3487 DW"3 | , 489. 051 |
| | Rumford, 5.9 miles southeast of, 2 miles north of Ardmore, 25 feet east of wagon road, 500 feet west of railway track; iron post stamped "3527 DW"3, | T00 077 |
| - | Ardmore, 525 feet northwest of station, 80 feet north of road, 125 feet northwest of schoolhouse; iron post stamped "3553 DW" 3, | |
| 1 | rom Ardmore up Indian Creek to Cole ranch, thence north and east to Rumford. | |
| | ardmore, 3.2 miles southwest of, 75 feet northwest of crossroads, 0.5 mile north of State line between South Dakota and Nebraska; iron | |
| 7 | post stamped "3666 DW"3, 1. 12 S., R. 3 E., quarter corner on west side of sec. 16, 2.100 feet | |
| 7 | north of State line; iron post stamped "3672 DW"3, 1. 12 S., R. 2 E., quarter corner on west side of sec. 13, 1,000 feet | |
| 7 | southwest of Simler's ranch; iron post stamped "3679 DW" 3, 12 S., R. 2 E., southeast corner of sec. 8, about 0.7 mile west of Cole ranch, northeast of bank of Alkali Creek; iron post stamped | |
| C | "3756 DW"3, ole ranch, about 4 miles northwest of, 200 feet east of east prong of Alkali Creek, at west end of low ridge; iron post stamped | 758. 310 |
| Т | "3899 DW" | 901. 057 |
| | north and south forks of Camp Creek; iron post stamped "4138 DW" | 140 161 |
| | . 11 S., R. 2 E., near southwest corner of sec. 14, 10 feet north of road; iron post stamped "3909 DW" | |
| T | . 11 S., R. 3 E., southwest corner of sec. 16, top of low ridge; iron post stamped "3720 DW"3, | |
| T | 11 S., R. 3 E., 1,000 feet north and 300 feet east of quarter corner | 101 |

T. 11 S., R. 3 E., 1,000 feet north and 300 feet east of quarter corner on south side of sec. 14, top of low ridge; iron post stamped

From Rumford via Hat Creek to Maitland post office.

277

18

| T. 10 S., R. 4 E., southwest corner of sec. 26, 1 mile southwest of Bar | |
|--|-------------|
| T ranch, 100 feet southeast of schoolhouse, 125 feet north of Hat | |
| Creek, in rock 8 by 12 inches and 6 inches above ground; aluminum | Feet. |
| tablet stamped "3443 DW" | 3, 444. 841 |
| T. 10 S., R. 4 E., near middle of sec. 10, 200 feet south of Pine Creek, | |
| 400 feet west of Hat Creek, 100 feet south of schoolhouse, 20 feet | |
| west of wagon road, in sandstone 15 by 10 inches, 7 inches above | |
| ground; aluminum tablet stamped "3383 DW" | 3,385. 233 |

HARNEY PEAK QUADRANGLE.

[Latitude 43° 30'-44°; longitude 103° 30'-104°.]

From Redfern to Hill City.

| Redfern, 2.6 miles southeast of, 75 feet east of crossing of Rochford | |
|--|---|
| and Hill City wagon road, 1,000 feet north of dwelling between | |
| bridges 61 and 62; spike in northeast side of pine tree 5, 437. 52 | |
| Hill City, 4.3 miles northwest of, 900 feet north of bridge 60, 3,000 | |
| feet east of county-road crossing, 300 feet north of spring meadow, | |
| 400 feet west of house, 30 feet north of wagon road from Redfern | |
| to Hill City, in east side of rock outcrop, 10 feet above road, 3 feet | |
| north of small rock mound; copper bolt stamped "DW 5349" 5, 351. 306 | 5 |
| Hill City, 120 feet south of station, in center of south end of lawn, | |
| 2 feet north of fence; iron post stamped "DW 4976" 4,978.514 | Ŀ |
| Hill City, south end of town, 3,600 feet south of station, 75 feet east | |
| of track, 500 feet north of switch on branch line to Coats and Cow- | |
| boy, 75 feet south of abandoned sawmill, in top of white quartz | |
| rock, 2 by 2 feet at surface; bronze tablet stamped "DW 5026" 5,028. 404 | 1 |
| | |

From Hill City to Custer.

| Hill City, 4 miles south of, 1 mile southwest of switch at lumber spur, | |
|--|------------------------|
| 470 feet northeast of crossing of Hill City-Custer wagon road, 235 | |
| feet southwest of southwest end of bridge 42, 100 feet north of limit | allights and |
| post between railroad sections 10 and 9, about center of rock cut, | |
| 10 feet west of and 6 inches above track, top of rock projection from | SECTION AND ADDRESS OF |
| main wall of cut; copper bolt stamped "DW 5240" | 5, 242, 337 |
| Oreville, 25 feet northwest of track, 25 feet west of mail bag catcher | |
| stand, 60 feet north of switch stand at north end of siding, on top | |
| of flat bowlder east of small rock mound; chisel mark | 5, 339. 11 |
| Oreville, 2,500 feet south of sawmill, 200 feet southeast of junction | |
| of Spring and Tenderfoot creeks, 250 feet south of crossing of Hill | |
| City-Custer wagon road, 100 feet west of bridge 37, in north side | |
| of pine tree, near ground; copper nail | 5, 367. 10 |
| Custer, 6 miles northwest of, 1,000 feet north of tin mine, 500 feet | |
| northeast of Tenderfoot Springs, long rock cut in curve on east | |
| side of track, in white quartz rock, 2 by 2 foot face, on top of south | |
| end of cut; copper bolt stamped "DW 5696" | 5, 698. 053 |
| Custer, 5.5 miles northwest of, 250 feet north of crossing of Hill City- | |
| Custer wagon road, 50 feet east of road, in center of quartz outcrop, | |
| 1 foot south of loose rock mound, in top of 2 by 2 foot rock; bronze | |
| tablet stamped " DW 5749" | |
| Custer, in front of ticket office, main track; top of rail | 5, 305. 2 |
| | |

| Custer, 950 feet southwest of station, 440 feet south of track, 500 feet east of axle-grease factory, north side of group of rocks, 5 feet east of large blazed pine tree, 1 foot north of rock mound, in top of rock, 5 by 5 foot surface, 5 feet high on lower side; bronze tablet stamped "DW 5322" | Feet. |
|---|-------------|
| From Custer to Pringle. | |
| Custer, 1.2 miles south of, 100 feet east of track on inside of curve, on | west first |
| opposite side of track from large jagged rock, at west end of rock ledge, on west side of pine tree; copper nail in root | 5, 375. 63 |
| Chisel mark | 5, 427. 39 |
| Custer, 2.7 miles south of, 0.5 mile south of top of divide, 85 feet northeast of crossing of Custer-Pringle road over railroad, 800 feet north of log house, 25 feet east of wagon road, 2 feet southwest of rock mound, in rock 4 by 10 by 2 feet high; copper bolt stamped | |
| "DW 5469" | 5, 471. 452 |
| Mayo, 175 feet north of railroad section house, 75 feet northeast of road crossing, in rock 100 by 30 feet, 25 feet high, near southwest corner, 6 feet above ground; copper bolt stamped "DW 5190" | 5 109 999 |
| Pringle, 3,000 feet northeast of station, 300 feet south of crosssing of | 0, 192. 202 |
| Custer-Hot Springs road over railroad, 250 feet north of whistling | |
| post marked "Pringle," 30 feet west of track, in south side of rock | |
| 100 by 30 feet 20 feet high, 4 feet above ground; copper bolt stamped "DW 4879" | 1 901 155 |
| Pringle, in front of ticket office, main track; top of rail | 4, 881, 2 |
| | 7,002.2 |
| From Pringle to Ivanhoe. | |
| Pringle, 1 mile southwest of, 40 feet south of road crossing near top of divide, 3 feet northeast of telegraph pole; point on southwest corner of limestone rock | 4 952 69 |
| Loring siding, 6,000 feet north of north switch stand, 180 feet west of crossing of Pringle-Minnekahta road, 280 feet northwest of bridge 11, 15 feet northwest of pine tree, in limestone rock 20 | 1, 002. 00 |
| by 15 feet, 5 feet high, in top 3 feet from northwest corner: | |
| copper bolt stamped "DW 4697"Argyle, in front of section house; top of rail | 4, 699. 325 |
| Argyle, 1,550 feet southwest of section house, 30 feet east of track, near north end of small cut, 2 inches above ground, in southeast | |
| end of sandstone rock 8 by 3 feet; copper bolt stamped "DW 4798" | 4, 800. 460 |
| From Berne siding, 3.5 miles northwest of Custer, along public road to Bear Springs public road. | |
| Pleasant View ranch, 0.5 mile southeast of, 0.5 mile northeast of Wright ranch, 800 feet south of small bridge on Custer-Deadwood road, 30 feet southeast of road from Wright ranch to Custer, 50 feet west of large pine tree blazed on west side, in large rock at north end of ledge 50 feet long, near center of top of rock, about 15 feet above road; chisel mark | 5, 703. 68 |
| | |

| West 1 | S SERVICES |
|--|------------|
| Wright ranch, 0.8 mile west of, 100 feet southeast of junction of two | |
| roads, 200 feet east of timber; spike in top of root on east side of | Feet. |
| detached 2-foot pine tree5, | 768. 17 |
| Wright ranch, 1.5 miles west of, 1,300 feet east of small butte covered | |
| with white quartz rock, 3,000 feet east of fork in road, rocky ridge | - Since |
| running across road northwest and southeast 30 feet south of | |
| county road, in large outcrop 30 by 30 feet, 6 feet high, 7 feet west | |
| of northeast corner and 4 feet above ground, near three pine trees | |
| marked "U. S. G. S. B. M. W. T.," one southeast 18 feet, one | |
| northeast 35 feet, and one northwest 35 feet; bronze tablet stamped | |
| "DW 5871"5, | 873. 399 |
| Wright ranch, 2 miles west of, 45 feet west of fork in road, 1,700 feet | |
| west of small quartz-covered butte on north side of road, on north | |
| side of 2-foot pine tree; spike in root6, | 000.5 |
| Wright ranch, 3 miles west of, 3,000 feet west of placer mine, 400 feet | |
| northwest of fork in road, 150 feet north of road to placer mine, | |
| 40 feet northeast of Custer-Bear Springs road; on north side of | |
| 18-inch pine tree; spike in root6, | 010.48 |
| Henderson ranch, 2,000 feet east of, 75 feet northwest of fork in | |
| county roads, 30 feet north of Custer-Bear Springs road, near three | |
| pine trees marked "U. S. G. S. B. M. W. T.," one 15 inches in | |
| diameter, southeast 133 feet, one 30 inches in diameter, north 23 | |
| feet, one 24 inches in diameter, northwest 49 feet; iron post | |
| stamped "DW 6060"6, | 062. 350 |
| Peterson ranch, 1,400 feet northwest of, 50 feet west of right-angle | |
| bend in Custer-Bear Springs road; on northeast side of 2-foot pine | |
| tree; spike in root6, | 183. 89 |
| Peterson ranch, 1 mile west of, at foot of steep hill, 8 feet south of | |
| county road; on north side of 1-foot pine tree; spike in root 6, | 283. 60 |
| Peterson ranch, 1.25 miles west of, in gap on top of divide between | |
| heads of French Creek and Hell Canyon, 10 feet north of Custer- | |
| Bear Springs wagon road, 5.25 feet northwest of southeast corner | |
| of sec. 33, T. 2 S., R. 3 E.; near two pine trees marked "U. S. G. S. | |
| B. M. W. T.," one 1 foot in diameter, west 11 feet, one 15 inches in | |
| diameter, east 30 feet; iron post stamped "DW 6443"6, | 445. 340 |
| Bear Springs, 1.8 miles southeast of, 300 feet east of top of divide be- | |
| tween Bear Springs and Bull Spring gulches, 5 feet north of | |
| Custer-Bear Springs road, on southeast side of 1-foot pine tree; | |
| spike in root6,6 | 630. 75 |
| Bear Springs, 1.25 miles southeast of, 30 feet northeast of Custer- | |
| Bear Springs road, 0.5 mile northwest of crossing over top of | |
| divide between Bear Springs and Bull Spring gulches, on east side | |
| of small park, on west side of 15-inch pine tree; copper nail in | |
| root6, E | 516. 24 |
| From Been Cowings to Buck Cowing public wood | |
| From Bear Springs to Buck Spring public road. | |
| Alkali Spring, 1 mile northwest of, 520 feet northwest of fork of roads | |
| to Buck Spring and down west side of Hell Canyon, 65 feet north- | |
| east of Buck Spring road, near top of limestone rock 24 by 4 feet | |
| and 21 feet high, location marked by two pine trees marked | |
| "U. S. G. S. B. M. W. T.," one 10 inches in diameter, north 150 | |
| 150 feet, one 18 inches in diameter, southeast 180 feet; bronze | |
| tablet stamped "DW 6224"6,2 | 226. 438 |
| | |

| Alkali Spring, 3.25 miles northwest of, 0.8 mile northwest of top | |
|---|-------------|
| of divide near southeast corner of park, 30 feet north of Custer- | |
| Buck Spring road; spike in root on northwest side of 30-inch | Feet. |
| pine tree | 6, 232, 39 |
| Alkali Spring, 2.5 miles northwest of, 4,000 feet east of road crossing | the second |
| over west fork of Hell Canyon, 25 feet south of Custer-Buck | |
| Spring road, in scattered timber on top of ridge, near three pine | |
| trees marked "U. S. G. S. B. M. W. T.," one 10 inches in diame- | of states. |
| ter, southeast 30 feet, one 10 inches in diameter, west 65 feet, one 10 | |
| inches in diameter, north 45 feet; iron post stamped "DW 6325" | 6 327 710 |
| West fork of Hell Canyon, 2,000 feet west of, 20 feet southwest of | 0, 021. 110 |
| Custer-Buck Spring road, on north side of 15-inch tall dead pine | |
| tree; wire nail in root | 6 253 55 |
| Buck Spring, 5.25 miles northeast of, 2.3 miles northeast of point | 0, 200, 00 |
| where Custer-Buck Spring road descends into bottom of Gillette | |
| Canyon, 25 feet west of road, near two pine trees marked "U. S. | |
| G. S. B. M. W. T.," one northwest 40 feet, one southeast 75 feet; | |
| iron post stamped "DW 6193" | 0 105 151 |
| Buck Spring, 4.2 miles northeast of, 1.6 miles northeast of point | 6, 195, 451 |
| Buck Spring, 4.2 miles northeast of, 1.6 miles northeast of point | |
| where Custer-Buck Spring road enters Gillette Canyon, 8 feet | 0 000 50 |
| southeast of road, on west side of 15-inch pine tree; spike in root_ | 6, 086, 72 |
| Buck Spring, 4 miles northeast of, 30 feet north of Custer-Buck | |
| Spring road, on north side of clump of large trees, 1.1 miles north- | |
| east of point where road enters bottom of Gillette Canyon; on | |
| south side of 18-inch pine tree; spike in root | 5, 983. 72 |
| Gillette Canyon, top of slope, east side, 20 feet northwest of Cus- | |
| ter-Buck Spring road at top of steep descent into bottom of canyon, | |
| on southeast side of 18-inch pine tree; spike in root | 5, 829. 74 |
| Buck Spring, 3 miles east of, 30 feet southwest of and about 10 feet | |
| above Custer-Buck Spring road, 250 feet east of point where road | |
| crosses dry stream bed in Gillette Canyon after descending steep | |
| hill, in top of limestone outcrop 2 by 2 feet and 2 feet high, location | |
| marked by three pine trees marked "U. S. G. S. B. M. W. T.," | Marie II |
| one 15 inches in diameter, east 250 feet, one 10 inches in diameter, | |
| northwest 12 feet, one 12 inches in diameter, south 45 feet; bronze | |
| tablet stamped "DW 5627" | 5, 629. 538 |
| Buck Spring, 2 miles east of, 30 feet north of Custer-Buck Spring | |
| road, 400 feet northwest of mouth of deep narrow gulch up which | |
| road runs, on bank 25 feet above road, on north side of 15-inch | |
| pine tree; spike in root | 5, 699,93 |
| Buck Spring, 1.8 miles east of, 6 feet northwest of Custer-Buck | 12 |
| Spring road, 200 feet east of top of divide between Gillette and | |
| Buck Spring canyons, on southwest side of 18-inch pine tree; | |
| spike in root | 5, 800, 83 |
| Buck Spring, 100 feet southeast of, 330 feet southwest of Kemp dwell- | 0,000.00 |
| ing house, 45 feet west of road down Buck Spring Canyon, in top | |
| of north end of limestone rock 4 by 6 feet, 18 inches above ground, | |
| location marked by two pine trees marked "U. S. G. S. B. M. | |
| W. T.," one 14 inches in diameter, northwest 200 feet, one 15 inches | |
| in diameter, southeast 20 feet; bronze tablet stamped "DW 5432"_ | 5 424 407 |
| in diameter, southeast 20 rect, bronze tablet stamped DW 9452 | 0, 404. 491 |

From Buck Spring to Hell Canyon and Pass Creek public road.

| Buck Spring, 0.7 mile south of, 45 feet northwest of road down canyon, on east side of 3-foot pine tree; spike in root |
|--|
| canyon, 6 feet southeast of dry rocky stream bed, in southeast side of 20-inch pine tree, 6 inches above ground; spike |
| wagon road, near foot of a point topped with high vertical rock, where road again enters canyon after crossing ridge to northeast, in top of gray sandstone outcrop 3 feet wide and 2.5 feet high, location marked by three pine trees marked "U. S. G. S. B. M. |
| W. T.," one 20 inches in diameter, southeast 6 feet, one 5 inches in diameter, southwest 50 feet, one 12 inches in diameter, north 27 feet; bronze tablet stamped "DW 5050" 5,052.470 Buck Spring, 4.5 miles south of, 100 feet southeast of dry stream bed |
| of Buck Spring Canyon, 500 feet south of old stone chimney near water hole 50 feet southeast of and 20 feet above road, in west side of 22-inch pine tree; spike |
| 3-C-S, or Campbell ranch, 700 feet southwest of, 80 feet east of fork in roads, 1,000 feet east of junction of Gillette and Buck Spring canyons, on top of small rocky point; iron post stamped "DW 4727"4,729.567 |
| Babcock ranch, 0.8 mile northwest of, 1.2 miles southeast of Coe ranch, 30 feet south of Custer-Newcastle road, 200 feet east of junction of road from Babcock ranch, 400 feet east of timbered ravine down which Custer-Newcastle road runs; iron post stamped |
| "DW 4950" |
| Drew ranch, 2,200 feet northwest of, 15 feet southwest of road from Barthold ranch, 35 feet southeast of northwest corner of sec. 2, T. 5 S., R. 1 E., on southeast bank of gulch; iron post stamped |
| "DW 4373"4, 375. 521 Drew ranch, 1.8 miles south of, 30 feet west of road to S. & G. ranch, 800 feet southwest of two buttes capped with limestone bowlders, about 1 mile northeast of point where road crosses stream in |
| Tepee Canyon, top of long hill; iron post stamped "DW 4422" 4,424.476 Drew ranch, 2.8 miles south of, 75 feet east of road to S. & G. ranch, 180 feet northwest of stream in Tepee Canyon, 300 feet northeast of remains of old log cabin, small outcrop of sandstone rock, 20 feet above bed of stream, on top of rock 1 by 1 foot in center of outcrop, |
| 2 feet southeast of mound; chisel mark4, 202. 57 Hell Canyon and Pass Creek, 3.2 miles north of junction of, 15 feet west of road from Drew ranch to S. & G. ranch, 1,100 feet south |
| of junction with road down west side of Tepee Canyon on top of ridge covered with scattered quartzite bowlders, 6 feet east of bowlder 12 by 8 by 5 feet, in top of rock 4 by 2 by 1 foot; bronze |
| tablet stamped "DW 4294"4, 296, 286 Hell Canyon and Pass Creek, 1,200 feet west of junction, 75 feet southwest of junction of road down Pass Creek with road from Drew ranch to S. & G. ranch, 24 feet southeast of road, 90 feet |
| south of south bank of creek bed; iron post stamped "DW 3846" 3,848.634 |

| Sullivan ranch, 1 mile east of, on south bank of Pass Creek, 250 feet east of mouth of small running stream, 40 feet southeast of road, on north side of 15-inch cottonwood tree; spike in root | Feet. 3, 900. 60 3, 990. 522 |
|---|------------------------------|
| From Pass Creek to Loring siding public road. | |
| Richardson ranch, 1.8 miles southwest of, 800 feet east of southeast fork of Pass Creek, 5 feet south of county road from S. & G. ranch to Custer, on northwest side of 2-foot pine tree; spike in root | 4, 596. 608 |
| from Richardson ranch, on top of ridge about 1.25 miles west of Pleasant Valley; iron post stamped "DW 4796" | |
| Eighteen Mile ranch, 1,800 feet northeast of, 180 feet southwest of fork in stream bed, 90 feet northwest of water hole, on northwest end of brown sandstone 5 by 3 feet and 1 foot high; circle and radial lines, chisel mark | 4, 693. 17 |
| of divide, on east side of 2½-foot pine tree; spike in root | 4, 918. 846 |
| From point 2 miles east of Richardson's ranch southwest by McBeath ranch | 1, 100.00 |
| down East Fork of Hawkwright Creek, thence north to Pass Creek Valley. | |
| McBeath ranch, 1.4 miles northeast of, 20 feet east of road to Custer, on south side of ridge of timber through which road passes, 6 feet east of dry, sandy ravine, on northwest side of 15-inch pine tree; copper nail in root4 | l, 640. 59 |

t.

| McBeath ranch, 1,600 feet northeast of, 35 feet southeast of road to Custer on southwest edge of timber, 300 feet southwest of point where road runs down dry, rocky stream bed, near pine tree, | |
|---|----------------------|
| marked "U. S. G. S. B. M. W. T.," east 30 feet; iron post stamped "DW 4512" | Feet. 4, 514. 641 |
| fence, 60 feet east of road, on west side of 15-inch dry pine stump 6 feet high; copper nail in root Cedar ranch, 500 feet west of, 140 feet west of gate in wire fence, 20 | 4, 401. 39 |
| feet southwest of road, on northeast side of 12-inch pine tree; spike level with ground in rootCedar ranch, 2 miles south of, 20 feet west of road down Hawkwright | 4, 350. 35 |
| Creek, 180 feet west of and about 30 feet above bed of east fork of creek, 600 feet north of point where road runs up out of valley and crosses ridge, near two pine trees marked "U. S. G. S. B. M. W. T.," one 5 inches in diameter, south 70 feet, one 8 inches in | |
| diameter, west 40 feet; iron post stamped "DW 4165" Cedar ranch, 4 miles south of, 40 feet west of crossing of road over Hawkwright Creek, 500 feet south of spring, on south side of 15- | 4, 167. 590 |
| inch cottonwood tree; spike in rootCedar ranch, 4.8 miles south of, 25 feet northeast of road down Hawkwright Creek, at junction with road from northwest, about | 4, 035. 91 |
| 3,000 feet south of fork in creek, 0.5 mile west of creek; iron post stamped "DW 4021" | 4, 023. 625 |
| McBeath and Cedar ranches to Pass Creek, at junction with road up ridge from southwest, on top of watershed between Pass Creek and Hawkwright Creek, where road starts descent into Pass Creek | |
| basin, pine tree 15 inches in diameter marked "U. S. G. S. B. M. W. T.," southeast 130 feet; iron post stamped "DW 4373" | 4, 375. 590 |
| From Pass Creek Valley north to Marsh ranch. Roger's shack, 1.25 miles northeast of, 120 feet southeast of old | |
| S. & GCuster County road, 25 feet northeast of plank gate in wire fence on south side of Lindsay ranch pasture, on north side of 2-foot pine tree; spike in root | 4, 641. 63 |
| Lindsay ranch, 0.8 mile east of, 18 feet southeast of old S. & GCuster County road, in small saddle on top of ridge, 40 feet northeast of crest, 600 feet south of fence on north side of pasture, near two pine trees marked "U. S. G. S. B. M. W. T.," one 5 inches | |
| in diameter, northwest 60 feet, one 12 inches in diameter, north- east 90 feet; iron post stamped "DW 4801" Lindsay ranch pasture, 4,000 feet north of northeast corner, 40 feet | 4, 803. 341 |
| west of old S. & GCuster County road, 450 feet north of junction with road from southwest, south side of belt of timber; in southeast side of 12-inch pine tree; wire spike | 4, 859. 41 |
| Reynolds ranch, about 1 mile southwest of, 120 feet southeast of old S. & GCuster County road, on southeast side of 18-inch pine tree; wire spike in root | 5, 155. 41 |
| Reynolds ranch, 0.5 mile southwest of, 30 feet east of old S. & GCuster County road, at junction of road from southeast, 0.25 mile south of point of fork of road to Reynolds ranch; iron post | - 010 |
| stamped "DW 5208" | 5, 210. 492 |

| Reynolds ranch, 1.2 miles north of, 35 feet southeast of old S. & G | |
|---|--|
| Custer County road, 165 feet northeast of cross roads in draw | |
| forming head of Pass Creek, in northwest side of 12-inch pine | Feet. |
| tree; copper nail | |
| Reynolds ranch, 2 miles north of, 150 feet southeast of road to Y 4 | |
| ranch, 0.5 mile southwest of timbered butte, in northwest side of | |
| 2-foot pine tree; copper nail | 5, 434, 71 |
| Reynolds ranch, 2.8 miles north of, 20 feet east of road to Y 4 ranch, | |
| 0.5 mile northwest of timbered butte, near south end of strip of | |
| prairie, location marked by two pine trees marked "U. S. G. S. | |
| B. M. W. T.," one 6 inches in diameter, south 180 feet, one 12 | |
| inches in diameter, northeast 260 feet; iron post stamped "DW | |
| 5491" | 5 493 464 |
| Reynolds ranch, 3.8 miles north of, 50 feet east of road to Y 4 ranch, | 0, 100. 101 |
| 160 feet southwest of gate in fence, on north side of 18-inch pine | |
| tree; wire spike in root | 5 400 97 |
| Y 4 ranch, 0.5 mile southwest of, 30 feet north of road from Pass | 0, 400. 51 |
| Creek, 25 feet east of ravine, 60 feet north of fence, on south side | |
| of 2-foot pine tree; wire spike in root | E E10 10 |
| Y 4 ranch, 0.5 mile northeast of, 20 feet southeast of road to Custer, | 0, 010. 10 |
| | |
| in saddle on top of small ridge, near two pine trees marked | |
| "U. S. G. S. B. M. W. T.," one 5 inches in diameter, west 145 | |
| feet, one 12 inches in diameter, northeast 200 feet; iron post | |
| stamped "DW 5541" | 5, 543, 389 |
| Y 4 ranch, 2.5 miles northeast of, 10 feet southeast of road to Custer, | |
| 2,500 feet southwest of junction with old Custer-Newcastle stage | WILLIAM |
| | |
| road, on north side of 18-inch pine tree; wire spike in root | 5, 673. 85 |
| | 5, 673. 85 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock | 5, 673. 85 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, | 5, 673. 85 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. | 5, 673, 85 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in | 5, 673, 85 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one | 5, 673. 85 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze | Total |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" | Total |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" | Total |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" Fourmile, Hendricks ranch, 500 feet east of, 3 feet west of mile board at intersection of Dudley road with Custer-Newcastle road, | 5, 477. 489 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" | 5, 477. 489 5, 338. 361 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475"——————————————————————————————————— | 5, 477. 489 5, 338. 361 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" Fourmile, Hendricks ranch, 500 feet east of, 3 feet west of mile board at intersection of Dudley road with Custer-Newcastle road, 4.5 miles southwest of Custer; iron post stamped "DW 5336" Fourmile, 2 miles west of, 0.5 mile east of Marsh ranch, 40 feet south of road; nail in root of 18-inch pine | 5, 477. 489 5, 338. 361 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" Fourmile, Hendricks ranch, 500 feet east of, 3 feet west of mile board at intersection of Dudley road with Custer-Newcastle road, 4.5 miles southwest of Custer; iron post stamped "DW 5336" Fourmile, 2 miles west of, 0.5 mile east of Marsh ranch, 40 feet south of road; nail in root of 18-inch pine Marsh ranch, 800 feet west of, top of large flat rock on east edge of | 5, 477. 489 5, 338. 361 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" Fourmile, Hendricks ranch, 500 feet east of, 3 feet west of mile board at intersection of Dudley road with Custer-Newcastle road, 4.5 miles southwest of Custer; iron post stamped "DW 5336" Fourmile, 2 miles west of, 0.5 mile east of Marsh ranch, 40 feet south of road; nail in root of 18-inch pine Marsh ranch, 800 feet west of, top of large flat rock on east edge of road, level with road, in west bank of dry creek channel, 125 feet | 5, 477. 489 5, 338. 361 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" Fourmile, Hendricks ranch, 500 feet east of, 3 feet west of mile board at intersection of Dudley road with Custer-Newcastle road, 4.5 miles southwest of Custer; iron post stamped "DW 5336" Fourmile, 2 miles west of, 0.5 mile east of Marsh ranch, 40 feet south of road; nail in root of 18-inch pine Marsh ranch, 800 feet west of, top of large-flat rock on east edge of road, level with road, in west bank of dry creek channel, 125 feet north of crossing; 30-inch pine witness tree, 70 feet east of | 5, 477. 489 5, 338. 361 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" Fourmile, Hendricks ranch, 500 feet east of, 3 feet west of mile board at intersection of Dudley road with Custer-Newcastle road, 4.5 miles southwest of Custer; iron post stamped "DW 5336" Fourmile, 2 miles west of, 0.5 mile east of Marsh ranch, 40 feet south of road; nail in root of 18-inch pine Marsh ranch, 800 feet west of, top of large flat rock on east edge of road, level with road, in west bank of dry creek channel, 125 feet north of crossing; 30-inch pine witness tree, 70 feet east of south; bronze table | 5, 477. 489 5, 338. 361 5, 475. 97 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475"——————————————————————————————————— | 5, 477. 489 5, 338. 361 5, 475. 97 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" Fourmile, Hendricks ranch, 500 feet east of, 3 feet west of mile board at intersection of Dudley road with Custer-Newcastle road, 4.5 miles southwest of Custer; iron post stamped "DW 5336" Fourmile, 2 miles west of, 0.5 mile east of Marsh ranch, 40 feet south of road; nail in root of 18-inch pine Marsh ranch, 800 feet west of, top of large flat rock on east edge of road, level with road, in west bank of dry creek channel, 125 feet north of crossing; 30-inch pine witness tree, 70 feet east of south; 30-inch pine witness tree, 50 feet east of south; bronze table stamped "DW 5453" Ward ranch, 300 feet south of, 50 feet north of road, 18-inch pine | 5, 477. 489 5, 338. 361 5, 475. 97 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" | 5, 477. 489 5, 338. 361 5, 475. 97 5, 455. 468 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" | 5, 477. 489 5, 338. 361 5, 475. 97 5, 455. 468 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" | 5, 477. 489 5, 338. 361 5, 475. 97 5, 455. 468 5, 616. 295 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" | 5, 477. 489 5, 338. 361 5, 475. 97 5, 455. 468 5, 616. 295 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" | 5, 477. 489 5, 338. 361 5, 475. 97 5, 455. 468 5, 616. 295 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" | 5, 477. 489 5, 338. 361 5, 475. 97 5, 455. 468 5, 616. 295 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" | 5, 477. 489 5, 338. 361 5, 475. 97 5, 455. 468 5, 616. 295 |
| From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch, and Ward ranch, across Hell Canyon to point about 0.8 mile north of Babcock ranch. Carr ranch, 300 feet northeast of, 3 miles southwest of Custer, in spherical rock outcrop 100 feet southeast of road; witness trees, one 45 feet east, 30-inch pine, one 30 feet south, 15-inch pine; bronze tablet stamped "DW 5475" | 5, 477. 489 5, 338. 361 5, 475. 97 5, 455. 468 5, 616. 295 5, 598. 68 |

t.

| | THE ALTERNATION CONTRACTOR OF THE PROPERTY OF | |
|---|---|--|
| - | Smith ranch, 3 miles west of, 800 feet west of intersection of middle | |
| | and south roads over Hell Canyon, on top of divide between west | |
| | Hell Canyon and east prong of Tepee Canyon, in limestone 3 by 2 | |
| | feet and 1½ feet high, 100 feet northwest of road; 15-inch pine wit- | |
| | ness tree 200 feet north, 12-inch pine witness tree 65 feet south- | Feet. |
| | west; bronze tablet stamped "DW 5358" | 5, 360. 329 |
| | Smith ranch, 5 miles west of, 25 feet north of road, 100 feet west | |
| | of middle prong of Tepee Canyon, in root of 12-inch pine tree; nail_ | 5, 100. 84 |
| | Smith ranch, 6 miles west of, 25 feet south of road, 900 feet east of | |
| | section corner, on line between ranges 1 and 2, near foot of ridge; | |
| | 20-inch pine witness tree 285 feet east, 24-inch pine witness tree | |
| | 250 feet northeast; iron post stamped "DW 5094" | 5, 096. 342 |
| | Smith ranch, 8 miles west of, on north edge of road, 300 feet west of | No. of Concession, Name of Street, or other Publisher, Name of Street, Name of Str |
| | top of ridge, 0.25 mile west of road running to Babcock ranch; | |
| | point on large flat rock | 5, 045. 52 |
| | | |
| | From point on Custer-Deadwood public road 0.5 mile southeast of Pleasant View | |
| | ranch, half a mile northeast of Wright ranch, and 30 feet southeast of road from Wright ranch to Custer northwest to James Dwyer's ranch. | |
| | | |
| | Mahnke ranch, 0.5 mile south of, 35 feet west of intersection of old | |
| | stage road from Custer to Deadwood and road running to Hill City | |
| | via Tenderfoot, 0.5 mile southeast of Junction schoolhouse; 15-inch | |
| | pine witness tree 120 feet northeast, 18-inch pine witness tree 120 | 20 M |
| | feet northwest; iron post stamped "DW 6106" | 6, 108. 290 |
| | Mahnke ranch, 1.5 miles north of, 10 feet east of road; nail in root | 0 000 04 |
| | of 12-inch pine tree | 6, 032. 91 |
| | Vonderlehr ranch, 275 feet north of, east side of road where it turns | |
| | northwest on north side of valley; 24-inch pine witness tree 120 | |
| | feet northwest, 24-inch pine witness tree 300 feet northeast; iron post stamped "DW 5818" | 5 990 991 |
| | Vonderlehr ranch, 2 miles north of, 20 feet east of road, 300 feet | 0, 020. 201 |
| | north of top of ridge at Spring Creek, in root of 24-inch pine tree; | |
| | nail | 5, 944, 35 |
| | Jackson ranch, 800 feet west of, at west edge of road, 100 feet west | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| | of small creek; 30-inch pine witness tree 170 feet northeast, 36-inch | |
| | pine witness tree 265 feet northwest; iron post stamped "DW | |
| | 5833 " | 5, 835, 268 |
| | Jackson ranch, 1.25 miles north of, 50 feet west of road; nail in root | Salar A |
| | of 10-inch pine tree | 5, 950. 35 |
| | Simpson ranch, 400 feet northeast of, in rock outcrop on point of ridge | |
| | on east side of road; 18-inch pine witness tree 85 feet west, 15-inch | |
| | pine witness tree 35 feet north; bronze tablet stamped "DW 6123"_ | 6, 125. 171 |
| | Gillette ranch, 350 feet east of, in rock outcrop 20 feet long and 4 feet | |
| | high, 15 feet above and 25 feet northeast of road at angle of road, | |
| | 175 feet northwest of bridge over Slate Creek, 24-inch pine witness | Plante |
| | tree 370 feet south; bronze tablet stamped "DW 6243" | 6, 245, 353 |
| | Gillette ranch, 1.1 miles north of, triangular stone 18 inches high with | |
| | 2-foot base, 40 feet west of road, 75 feet east of Slate Creek; top | 0.105.50 |
| | surface | 6, 107. 79 |
| | Cramer ranch, 0.4 mile north of, 20 feet south of road forks; 36-inch | |
| | pine witness tree 325 feet northeast, 30-inch pine witness tree 425 | 5 009 170 |
| | feet southwest; iron post stamped "DW 5901" | 5, 903, 173 |
| | 29392°—Bull. 643—16——3 | |

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| of Simil Bevilling in South Bandin, 1000 to 1010, | |
|--|--|
| From Dwyer ranch east to Tigerville, on Chicago, Burlington & Quincy R. R. | ered month |
| Jim Dwyer ranch, 800 feet northwest of, 275 feet north of road; iron post set for township corner on base line, marked "Sec. 1 N., R. 5 E.," on northwest side and "R 4 E." on northeast side, stamped "DW 5837" | Feet. 5, 839, 698 |
| Jim Dwyer ranch, 1 mile east of, south of road, in root of 10-inch pine tree; nail | 5, 864, 15 |
| Mrs. Dwyer ranch (Tigerville), 100 feet east of road intersection in root of 24-inch pine tree; nail | and himself |
| From point 1.25 miles southeast of Bear Springs on Custer road to Bear Springs, Preacher Spring, and head of Castle Creek, thence north to Deadwood-Newcastle road, thence east to Bulldog ranch on Chicago, Burlington & Quincy R. R. | alteriors - |
| Bear Springs, in flat limestone outcrop 12 by 15 feet and 130 feet east of creek, 500 feet southeast of cabin, 50 feet below timber line, 350 feet southeast of road, 600 feet northeast of road; 18-inch pine witness tree 400 feet northwest, 40-inch pine witness tree 250 feet | STATE OF THE STATE |
| northeast; copper bolt stamped "DW 6490"Bear Springs, 2.25 miles north of, in center and upper side of flat | |
| limestone outcrop, 135 feet northeast of road, on top of divide be- tween head of Gillette Canyon and Hell Canyon, outerop 60 feet by 30 feet; 15-inch pine witness tree 175 feet south, 12-inch pine wit- | |
| ness tree 310 feet northwest; copper bolt stamped "DW 6912" Bear Springs, 3.8 miles northwest of, 75 feet north of road, in root | |
| of 15-inch pine tree; nailBear Springs, 4 miles northwest of, 25 feet east of road from Gillette | |
| Canyon to Bear Springs, on southeast side of Gillette Park, at foot of ridge dividing branch of Gillette Canyon toward Bear Springs | |
| from branch to head of Spring Creek, 800 feet south of intersection of the two branches of Gillette Canyon, near intersection of roads | |
| running to Bear Springs, Spring Creek, down Gillette Canyon, and north through Gillette Park; witness tree 190 feet northeast, 20-inch pine tree, witness tree 400 feet southeast, 30-inch pine tree; | Hard |
| iron post stamped "DW 6611"Preacher Spring main road and Gillette Canyon road, 5.1 miles east | 6, 613. 430 |
| of intersection on Preacher Spring road, 30 feet south of road; highest point of rock 12 by 12 inches | e 500 70 |
| Preacher Spring main road and Gillette Canyon road, 3 miles east of intersection, 150 feet north of road, in root of 24-inch pine tree; nail_ | |
| Preacher Spring main road and Gillette Canyon road, 3 miles east of intersection, at intersection of a ravine from the south with | 0, 404. 22 |
| Gillette Canyon, in second limestone outcrop from the north, at foot of cliff and 40 feet south of northwest point of cliff, 5 feet | |
| above level of surface in outcrop 10 feet high; 30-inch pine witness tree 280 feet north, 24-inch pine witness tree 300 feet southwest; | |
| copper bolt stamped "DW 6374"Preacher Spring main road and Gillette Canyon road, 1 mile east of | |
| intersection, 50 feet east of road; nail in root of 18-inch pine tree Preacher Spring main road and Gillette Canyon road, 0.3 mile west of | 6, 210, 06 |
| intersection, in east end and 8 inches below top of limestone outcrop 5 feet long and 2 feet high, 75 feet north of road and 6 feet higher | |
| than road; 18-inch pine witness tree 25 feet north, 24-inch pine witness tree 125 feet northeast; copper bolt stamped "DW 6129" | 6, 131, 44) |
| | The second second |

| Harris | Graham ranch road, 1 mile northeast of intersection with, 20 feet east | Feet. |
|--------|--|-----------------|
| 197 | of road, in root of 24-inch dead pine tree; nail | |
| | Graham ranch road, 25 feet west of intersection of, 4 miles east of | The Property of |
| eet. | Graham ranch; 30-inch pine witness tree 45 feet north, 30-inch pine | |
| 9. 698 | witness tree 125 feet northeast; iron post stamped "DW 6167" | 6, 169, 423 |
| | Graham ranch, 3 miles east of, 20 feet west of road, in root of 18-inch | |
| 4. 15 | pine tree; nail | 6, 223. 40 |
| | Graham ranch, 1 mile east of, on south side of road, in root of 15-inch | |
| . 32 | pine tree; nail | 6, 093. 89 |
| | Graham ranch, 1,000 feet south of, in blue limestone outcrop 12 by 12 | |
| | inches, 15 feet east of road on east side of Hay Canyon, 20 feet east | |
| 45 | of foot of hill; 24-inch pine witness tree 135 feet north, 30-inch pine | |
| | witness tree 280 feet southeast; copper bolt stamped "DW 5752" | 5, 754. 494 |
| | Moon ranch, 1.25 miles south of, 45 feet east of road, in root of 18-inch | |
| | dead pine tree; nail | 6, 148. 47 |
| 5× 1 | Moon ranch, 65 feet south of cabin, in limestone outcrop 18 by 24 | |
| | inches; 10-inch pine witness tree 170 feet north, 24-inch pine witness t | m paled 19 |
| 144 | ness tree 85 feet west; copper bolt stamped "DW 6273" D. W. Thompson ranch, 2.5 miles south of, 75 feet east of road, in root | 6, 275, 732 |
| | of 40-inch pine tree; nail | 6 405 57 |
| | D. W. Thompson ranch, 1.25 miles south of, 50 feet west of road, in | 0, 405. 51 |
| | root of 30-inch pine tree; nail | 6 388 20 |
| 38/12 | D. W. Thompson ranch 0.7 mile south of, 25 feet east of intersection | 0,000.20 |
| | of Newcastle road with road south; 12-inch pine witness tree 50 | |
| | feet east, 18-inch pine witness tree 265 feet southwest; iron post | |
| 3 | stamped "DW 6480" | 6, 482. 410 |
| | D. W. Thompson ranch, 0.25 mile south of, 90 feet east of road; in | |
| 1 | root of 16-inch pine tree; nail | 6, 513. 47 |
| - | D. W. Thompson ranch, 1.25 miles east of, in limestone outcrop 24 | |
| | by 18 feet, 6 feet higher than road, 40 feet southeast of intersec- | |
| | tion of Preacher Spring road with Newcastle road; 36-inch pine | |
| | witness tree 250 feet west, 18-inch pine witness tree 185 feet southeast; copper bolt stamped "DW 6588" | 0 700 007 |
| 100 | Woodward ranch, 2.25 miles south of, 40 feet east of road, beside | 6, 590. 385 |
| | stake; stone 2 feet by 1 foot; highest point | 6 570 02 |
| 1 | stake, stolle 2 feet by 1 foot, inglest point- | 0, 010. 03 |
| 1 | From intersection of Preacher Spring, Ditch Creek, Spring Creek, and Bear | |
| 1 | Springs roads north to head of Ditch Creek. | |
| 100 | Down Charleson E miles nonthwest of 9.0 miles contheast of head of | in the same of |
| 1. | Bear Springs, 5 miles northwest of, 2.8 miles southeast of head of water in Ditch Creek, 12 feet east of road, 100 feet southeast of | |
| 1 1 | limestone outcrop, 300 feet north of top of ridge; highest point of | |
| 1 | 18-inch black bowlder with broken corner | 6 600 26 |
| 1 1 | Bear Springs, 5.5 miles northwest of, 2.25 miles southeast of head | 0, 000. 20 |
| 1 . 3 | of water in Ditch Creek, 2 feet northeast of corner of SE. ‡ and | |
| - | SW. 1 sec. 36, T. 1 S., R. 2 E., and NE. 1 and NW. 1 of sec. | |
| 1 7 | 1, T. 2 S., R. 2 E., 100 feet west of road, 25 feet east of dry creek; | |
| 200 | 24-inch pine witness tree 425 feet southwest; iron post stamped | |
| 1 | "DW 6571" | 6, 573. 457 |
| 19.00 | Ditch Creek, head of, in limestone outcrop 10 by 10 feet and 2 feet | |
| | high, 85 feet east of road and 15 feet higher than road, 400 feet | |
| | south of spring at head of Ditch Creek; 24-inch pine witness tree | |
| 12 | 180 feet northeast, 15-inch pine witness tree 280 feet west; bronze | dal la |
| - 100 | tablet stamped "DW 6410" | 6, 412. 406 |
| 100 | | |

I

From Sheridan via Hill City to McAdam ranch.

| Sheridan, 3.2 miles southwest of, 100 feet south of J. R. stamp mill. 75 feet northwest of Lambert house, 60 feet west of intersection of road; iron post stamped "DW 4736" | Feet. 4, 738. 263 4, 978. 514 |
|---|-------------------------------|
| Richardson ranch, 600 feet northeast of, 3.5 miles from Custer; iron | |
| post stamped "DW 5187" | |
| mill, 100 feet west of road, 25 feet south of rock ledge 5 by 15 feet 2 feet high, in solid rock; bronze tablet stamped "DW 5027" | |
| Tinsley ranch, 800 feet east of, in granite rock, 10 feet in diameter, | |
| 4 feet high, on south side of road, 300 feet west of top of divide; bronze tablet stamped "DW 5109" | |
| | 0, 111.000 |
| From Clinkenbeard ranch to Pringle. | |
| Clinkenbeard ranch, 300 feet southwest of, at intersection of Pringle, Hot Springs, and Buffalo Gap roads; iron post stamped "DW | |
| 4532 " | |
| Bowman ranch, fork of road to, north side of road; iron post stamped "DW 4716" | 4, 718, 383 |
| Pringle, 0.4 mile north of; copper bolt stamped "DW 4879" | 4, 881. 155 |
| Near Dwyer ranch. | |
| Jim Dwyer ranch, 800 feet northwest of, 275 feet north of road; iron | |
| post set in township corner on base line, marked "Sec. 5, T. 1 N., R. 3 E.," on northwest and "R. 4 E." on northeast, stamped "DW | |
| 5637 " | 5, 839. 698 |
| HERMOSA QUADRANGLE. | |
| [Latitude 43° 30′-44°; longitude 103°-103° 30′.] | |
| | |
| Near Sheridan. | |
| Sheridan, 0.2 mile south of, 200 feet northwest of Barthold ranch, | |
| | 4, 603. 271 |
| Sheridan, 0.2 mile south of, 200 feet northwest of Barthold ranch, west of intersection of Sheridan, Hill City, and Keystone roads; | 4, 603. 271 |
| Sheridan, 0.2 mile south of, 200 feet northwest of Barthold ranch, west of intersection of Sheridan, Hill City, and Keystone roads; iron post stamped "DW 4601" | |
| Sheridan, 0.2 mile south of, 200 feet northwest of Barthold ranch, west of intersection of Sheridan, Hill City, and Keystone roads; iron post stamped "DW 4601" | |
| Sheridan, 0.2 mile south of, 200 feet northwest of Barthold ranch, west of intersection of Sheridan, Hill City, and Keystone roads; iron post stamped "DW 4601" | 4, 736. 148 |
| Sheridan, 0.2 mile south of, 200 feet northwest of Barthold ranch, west of intersection of Sheridan, Hill City, and Keystone roads; iron post stamped "DW 4601" | 4, 736. 148 |
| Sheridan, 0.2 mile south of, 200 feet northwest of Barthold ranch, west of intersection of Sheridan, Hill City, and Keystone roads; iron post stamped "DW 4601" | 4, 736. 148 4, 342. 024 |

| | PRIMARY LEVELING. | 91 |
|------------------|--|----------------------|
| eet. | Glendale, 0.4 mile south of, 100 feet east of intersection of Glendale, Spokane, and Hayward roads, in rock 8 by 10 feet and 3 feet high; bronze tablet stamped "DW 4244"Hayward, west side of town, 175 feet east of Battle Creek, 50 feet | Feet. 4, 246. 139 |
| 8. 514 9. 159 | south of intersection of Glendale, Rockerville, and Hermosa roads, | 3, 814. 217 |
| 100 | Hayward, 3.5 miles north of, on ridge west of road; iron post stamped | |
| 314 | "DW 4507" | |
| | Near Baker ranch. | EN RAT |
| 391 | | STREET STREET |
| 336 | Sheridan, 2 miles northeast of, 50 feet northeast of intersection of Sheridan, Pactola, and Rapid roads, in stone 3 by 3 feet and 18 inches above ground; bronze tablet stamped "DW 4553"Baker ranch, 800 feet southeast of, north side of road; iron post | 4, 555. 281 |
| | stamped "DW 4495" | 4, 496. 963 |
| -3 | From Chicago & North Western Ry. bridge over Spring Creek to Rockerville. | |
| 09 | Spring Creek, 0.5 mile north of, 90 feet southwest of crossing of county road and railroad; iron post stamped "DW 3326"McMinn ranch, 350 feet northeast of, northeast side of intersection of road down Spring Creek with Rapid-Hermosa road; iron post | 3, 328. 384 |
| 55 | stamped "DW 3350" | 3, 352. 123 |
| | McMinn ranch, 1 mile west of, 25 feet north of road; copper nail in root of 18-inch elm tree | 3 383 14 |
| | McMinn ranch, 2 miles west of, northeast corner of bridge over Spring Creek; copper nail in root of 15-inch cottonwood treeMcMinn ranch, 2.8 miles west of, 675 feet north of Erb ranch, 40 | and the same |
| 3 | feet north of road, in sandstone 5 by 15 feet and 2 feet high; bronze tablet stamped "DW 3457" | 3, 459, 187 |
| | Blair ranch, 400 feet northwest of, 45 feet northeast of intersection of Spring Creek, Rapid, and Rockerville roads; iron post stamped | |
| | "DW 3511"Blair ranch, 0.9 mile west of, north side of road; copper nail in root | |
| 1 | of 15-inch pine tree | 0, 100, 15 |
| | Rockerville Gulch, north side of road, iron post stamped "DW 4329" | 4, 331. 111 |
| | Wright ranch, 800 feet west of, north side of road; copper nail in root of 12-inch pine tree | |
| | From Rockerville via McNown, Murphy, and Peterson ranches to Hermosa. | |
| | McNown ranch, 0.5 mile northwest of, 100 feet north of road, in lime- stone rock 6 by 2 feet outcropping in side of rocky hill, 20 feet higher than road; bronze tablet stamped "DW 4324" | 4, 326. 500 |
| 7 | McNown ranch, 0.9 mile southeast of, 25 feet west of road; copper nail in root of 6-inch pine tree | |
| | McNown ranch, 2.9 miles southeast of, 1.7 miles northwest of Murphy (Red Earth) ranch, 20 feet north of road on top of divide, in sand- | |
| | stone 4 by 2 feet and 15 inches high; bronze tablet stamped "DW 4063" | |

| Murphy ranch, 1 mile southwest of, 1.4 miles northwest of Peterson | |
|--|--------------|
| ranch; 300 feet northwest of junction of roads, on bank of channel | |
| in gulch; copper nail in root of 8-inch pine tree Peterson ranch, 0.2 mile northwest of, northeast side of junction of | . 3, 600. 99 |
| Rockerville road with Hayward-Hermosa road; iron post stamped | |
| "DW 3525" | 3, 527, 181 |
| Peterson ranch, 0.8 mile south of, 100 feet northwest of Hayward- | 2 2 98 |
| Hermosa road ford of Battle Creek, north bank of Battle Creek; | |
| copper nail in root of 20-inch oak tree | 3, 457. 67 |
| Beatty ranch, 0.6 mile east of, 450 feet southwest of intersection of | |
| the Squaw Creek and Battle Creek roads; iron post stamped "DW 3349" | 2 251 061 |
| Hermosa, 150 feet southwest of station, 60 feet west of track, in | 0, 001, 001 |
| southwest corner of station agent's private yard; iron post stamped | |
| "DW 3300" | 3, 302. 483 |
| From Glendale via Spokane and Farmer, Ray, and Clark ranches to Fairburn. | |
| | |
| Spokane, 500 feet northwest of post office, 300 feet north of school- | |
| house, on west side of road, in granite rock 8 by 10 feet and 18 inches high; bronze tablet stamped "DW 4521" | 4, 523, 119 |
| Farmer ranch, 1.6 miles southeast of, on north bank of ravine 60 feet | 2,020,220 |
| east of road, in rock 3 feet high; bronze tablet stamped "DW | |
| 4086" | 4, 088. 133 |
| Ray ranch, southwest side of, intersection of Spokane, Hermosa, and | 9 050 171 |
| Custer roads; iron post stamped "DW 3650"Clark ranch, 0.3 mile east of, 350 feet north of Dry Creek, 50 feet | 5, 692, 171 |
| south of cut-off road to Fairburn; iron post stamped "DW 3780"_ | 3, 782, 714 |
| Clark ranch, 0.7 mile southeast of, south side of road; copper nail | Tra Falinia |
| in root of 12-inch elm tree | 3, 697. 44 |
| Laning ranch, 2.8 miles southeast of, top of ridge 1,000 feet east of | |
| gulch running into French Creek, north side of road, 375 feet southeast of quarter-section corner; iron post stamped "DW 3700" | 2 702 025 |
| Smith ranch, 0.5 mile north of, southwest side of road crossing, 2.5 | 0, 102. 020 |
| miles west of Fairburn; iron post stamped "DW 3430" | 3, 432. 012 |
| Fairburn, 200 feet northeast of station, 40 feet northeast of county- | |
| road crossing; iron post stamped "DW 3310" | 3, 312. 460 |
| From Clark ranch to Richardson ranch via Hare and McClelland ranches. | |
| Fay ranch, 2.5 miles northwest of, 500 feet southeast of top of ridge, | |
| in white limestone 2 by 4 feet and 1 foot high, on west side of | |
| road; bronze tablet stamped "DW 4223" | 4, 225. 320 |
| Hare ranch, 2.1 miles west of, 1 mile southwest of divide between | |
| French Creek ravine and Squaw Creek, on west side of road, on | 1 |
| south bank of channel in ravine, in granite ledge 3 feet higher than road; bronze tablet stamped "DW 4664" | 4 666 398 |
| McClelland ranch, 0.1 mile west of, granite ledge north of and 4 feet | 1, 000. 020 |
| higher than road; bronze tablet stamped "DW 5010" | 5, 012, 355 |
| From Combe ranch to Gould ranch, | |
| | |
| Combe ranch, 0.3 mile south of, on west side of road; iron post stamped "DW 4696" | 4 608 491 |
| Kenoyer ranch, 0.6 mile east of, on north side of road, at point of | 1, 000. 401 |
| rock outcrop 10 feet high, in rock 24 inches high; bronze tablet | |
| stamped "DW 4244" | 4, 246. 287 |
| | |

et. 0. 99

| PRIMARY LEVELING. | 39 |
|---|-------------------------------|
| McVey ranch, 1.7 miles east of, 300 feet north of intersection of Fairburn, Buffalo Gap, and Custer roads; iron post stamped "DW 3862" | Feet. 3, 864. 320 |
| Dowe ranch, 1.3 miles southeast of, 150 feet north of road down west branch of Lame Johnny Creek, 200 feet southwest of road from Fairburn, 600 feet west of intersection of roads, 1 mile southeast of Lame Johnny Creek, in sandstone outcrop 60 feet long; bronze tablet stamped "DW 3745" | t e |
| Gould ranch, 0.4 mile northwest of, 2 feet northwest of northwest corner of sec. 21, T. 5 S., R. 7 E., on Buffalo Gap-Rapid road, 256 feet southwest of junction with road up Lame Johnny Creek; iron post stamped "DW 3482" | t) n |
| From Parker ranch via Highland ranch to Otey ranch. | Ser avertue Service observ |
| Parker ranch, 1.8 miles west of, at intersection of Custer, Buffald Gap, and Lame Johnny Creek roads; iron post stamped "DW | To a second |
| 4312"Highland ranch, 0.4 mile northwest of, 75 feet east of intersection of | f |
| Custer, Buffalo Gap, and Pringle roads, in rock outcrop 4 feet wide and 2 feet high; bronze tablet stamped "DW 4373" | 4, 375. 407 |
| road to Reeve ranch; iron post stamped "DW 4617" | . 4, 619. 314 |
| From Fairburn via Richardson and Grimley ranches to Nelson ranch. | THE PERSON ASSESSED. |
| Fairburn, 3 miles east of, 50 feet southeast of southeast corner of sec. 28, T. 4 S., R. 8 E., 50 feet southeast of intersection of roads 250 feet north of bridge over French Creek; iron post stamped | i |
| "D W 3184"Richardson ranch, 750 feet east of, 500 feet south of north quarter | |
| section corner of sec. 14, T. 5 S., R. 8 E., on west side of road; iron post stamped "DW 3298" | 3, 300. 141 |
| divide, top of ridge, 20 feet west of road; iron post stamped "DW 3179" | 1 |
| Grimley ranch, 0.5 mile south and 0.5 mile east of, north side or road on top of ridge; iron post stamped "DW 3021" | f |
| Nelson ranch, 2.3 miles southwest of, southeast corner of sec. 21 T. 6 S., R. 8 E., 450 feet northwest of road; iron post stamped | , 1 |
| "DW 3183" | . 3, 184. 980 |
| From Wood ranch to Wind Cave ranch. Wood ranch, 600 feet southwest of, 500 feet east of bridge over | W. SERVER |
| Beaver Creek, 5 feet south of south fence, on large outcrop of rock 1 foot above ground; bronze tablet stamped "DW 3365" | , - 3, 367. 236 |
| Johnson ranch, 1.7 miles west of, on south side of road at junction of cut-off from Buffalo Gap-Custer road, foot of round hill with limestone ledge at top; iron post stamped "DW 3502" | 1 |
| Martin Valley ranch, 2.2 miles west of, south side of road, in ledge of limestone 20 by 30 feet; bronze tablet stamped "DW 3810" | f |
| Wind Cave ranch, 0.5 mile southeast of, 250 feet west of intersection of Buffalo Gap road with Wind Cave-Hot Springs road; iron pos | t |
| stamped "DW 4158" | 4, 160. 380 |

| Wind Cave ranch, 3.3 miles southeast of, west side of high ridge, on south side of road, in limestone rock; bronze tablet stamped "DW 4233" | Feet. |
|--|-----------------|
| From Grimley ranch via Cheyenne River and Morris, Smith, Stinger, Gramberg, and Bennett ranches to point 2 miles south of Brennan. | |
| Harrison Flat schoolhouse, 1 mile north and 1 mile east of, southeast corner of SW. ½ sec. 8, T. 6 S., R. 9 E.; iron post stamped "DW 2964" | 2, 965, 993 |
| Harrison Flat schoolhouse, 3.2 miles northeast of, 1.7 miles south of mouth of Cottonwood Creek, west side of Cheyenne River bottom where road comes down bluff; nail in 10-inch cottonwood tree | |
| Cottonwood Creek, 500 feet southwest of mouth of, west side of Cheyenne River bottom, south side of Cottonwood Creek bottom, 50 feet southwest of junction of trails running down Cottonwood | 2, 100.01 |
| Creek; iron post stamped "DW 2775" Ayres ranch, 0.2 mile southwest of, on west line of Pine Ridge Indian Reservation, 700 feet south of Cheyenne River, quarter | 2, 776. 902 |
| mile east of west corner of secs. 13 and 24, T. 5 S., R. 9 E., 150 feet north of road, in side of Indian monument; iron post stamped | 9 740 155 |
| "DW 2738"Cheyenne River, bed of, at northwest corner of Pine Ridge Indian ReservationAyres ranch, 3 miles northwest of, top of divide between French | Davidson ! |
| Creek and Cheyenne River, 25 feet north of road; iron post stamped "DW 3270" | 3, 270, 981 |
| Morris ranch, 75 feet southwest of, 9 miles east of Fairburn, on north side of road, north side of French Creek; iron post stamped "DW 3008" | 3, 010. 010 |
| Morris ranch, 3.3 miles northwest of, about 0.5 mile northeast of junction of Alkali and Dry creeks, 500 feet south of junction of road to Battle Creek with Dry Creek-Hermosa road; iron post | A Extrapolation |
| stamped "DW 3076" Smith ranch, 0.5 mile north of, southeast corner of sec. 32, T. 3 S., R. 9 E., 0.25 mile west of road from French Creek to Hermosa; | |
| iron post stamped "DW 3162" | |
| stamped "DW 3212" Stinger ranch, 0.6 mile east of, southeast corner of NE. 4 sec. 7, T. 3 S., R. 9 E.; iron post stamped "DW 3137" | |
| Stinger ranch, 1 mile east and 2.7 miles north of, 0.3 mile south of southeast corner of sec. 30, T. 2 S., R. 9 E., 30 feet southwest of road crossing; iron post stamped "DW 3278" | 3, 279. 875 |
| Vohmer ranch, 250 feet east of, on west side of road, 725 feet south of northeast corner of sec. 7, T. 2 S., R. 9 E., 450 feet south of Spring Creek; iron post stamped "DW 3133" | 3, 134, 895 |
| Gramberg ranch, 1 mile northwest of, at southwest corner of NW. ‡ sec. 31, T. 1 S., R. 9 E., 100 feet north of crossroads; iron post stamped "DW 3216"; | 3, 217. 875 |
| Bennett ranch, 0.7 mile northeast of, at southeast corner of SW. ‡ sec. 17, T. 1 S., R. 8 E., 100 feet south of road; iron post stamped "DW 3155" | |

t. 506

| Brennan, 2 miles south of, 250 feet southeast of county-road crossing, 20 feet southwest of county road, southwest corner of Getchell ranch, 1 foot south of north quarter corner of sec. 14, T. 1 S., R. 8 E.; iron post stamped "DW 3160" | |
|---|--|
| From Buffalo Gap to Brennan. | police to the |
| Beaver Creek, on bridge, 15 feet above stream; top of railBuffalo Gap, 4.2 miles northeast of, 350 feet northeast of bridge H | 3, 260. 9 |
| 112, 200 feet southeast of track, 100 feet southeast of wagon road, 2.5 feet east of fence corner post; iron post stamped "DW 3265"_ Melvin siding, 180 feet south of north switch stand, west end of ma- | 3, 267. 405 |
| sonry culvert H 121, in top of southwest corner of coping stone; bronze tablet stamped "DW 3396" | 3, 398. 535 |
| ner of sec. 4, 700 feet north of section house 10, 60 feet west of track, 40 feet east of county road; iron post stamped "DW 3604"_Fairburn, 2.5 miles southwest of, 1,190 feet south of east quarter | 3, 606. 376 |
| corner of sec. 27, T. 4 S., R. 7 E., 3 feet northwest of railroad fence, 60 feet southeast of angle in county road; iron post stamped "DW 3420" | 3, 422. 412 |
| Fairburn, 200 feet northeast of station, 40 feet northeast of county- road crossing; iron post stamped "DW 3310" Hermosa, 5.8 miles south of, 270 feet north of section house 12, 60 | 3, 312. 460 |
| feet southeast of county-road crossing, 6 feet northwest of fence- corner post; iron post stamped "DW 3430" | 3, 432, 618 |
| Hermosa, about 3 miles southwest of, 880 feet north of southeast corner of sec. 12, T. 3 S., R. 7 E., 180 feet north of bridge H 159, in center of county-road lane at bend in road; iron post stamped | 9 400 455 |
| "DW 3458"Hermosa, 150 feet southwest of station, 60 feet west of track, in southwest corner of station agent's private yard; iron post stamped | |
| "DW 3300" | A A B |
| Spring Creek, 200 feet south of, 200 feet south of section house 14, east end of stone culvert H 185½, on projection on top of south end | The state of the s |
| of coping stone; chisel mark | 3, 295. 19 |
| 40 feet southeast of track, 80 feet southwest of crossing signpost marked U. S. G. S. B. M. W. P.; iron post stamped "DW 3326"Brennan, 2 miles south of, 250 feet southeast of county-road crossing, | 3, 328. 384 |
| 20 feet southwest of county road, southwest corner of Getchell ranch, 1 foot south of north quarter corner of sec. 14, T. 1 S., R. 8 | 9 100 405 |
| E.; iron post stamped "DW 3160" Brennan, 1,300 feet south of section house 215, 75 feet southwest of county-road crossing, 80 feet west of signpost marked "Brennan" | |
| and scribed U. S. G. S. B. M. W. P.; iron post stamped "DW 3114"_ | 3, 116. 480 |

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OELRICHS QUADRANGLE.

[Latitude 43°-43° 30'; longitude 103°-103° 30'.]

Near Hot Springs.

| Hot Springs, 4.1 miles north of, east side of junction of Buffald Gap-Hot Springs road with Hot Springs-Wind Cave road; iron post stamped "DW 3847" | Feet. 3, 849. 567 |
|--|--------------------------|
| Near Buffalo Gap. | |
| Buffalo Gap, 5 miles east of, southeast corner of NE. ½ sec. 25, T. 6 S., R. 7 E.; iron post stamped "DW 3221" | 3, 222. 895 |
| From Hot Springs via Chicago & North Western Ry. to Buffalo Gap. | |
| Hot Springs, in front of union station; top of rail———————————————————————————————————— | |
| of rail Hot Springs, 2.3 miles southeast of, 100 feet southwest of track, 300 feet south of bridge, H. S. 23, 150 feet southwest of wagon road, in northeast end of sandstone rock 20 by 10 feet and 4 feet high; copper bolt stamped "DW 3313" | a contract |
| Evans quarry, 450 feet north of post office, 200 feet north of falls of Fall River, 550 feet east of bridge H. S. 17, 50 feet north of and about 15 feet above track, in irregular sloping rock 10 by 3 feet and 3 feet high, 2 feet south of north end; copper bolt stamped | |
| "DW 3225" | 3, 227, 329 |
| chisel mark | |
| northeast end of snow fence; iron post stamped "DW 3315" Buffalo Gap, 2 miles southwest of, 290 feet west of county-road crossing, 30 feet south of county road, 1.5 feet south of stone marking northwest corner of T. 7 S., R 7 E.; iron post stamped "DW | |
| 3410"Buffalo Gap, in front of station, main track; top of rail | 3, 412. 517 3, 259. 6 |
| Buffalo Gap, 120 feet east of station ticket office, 150 feet north of wagon road running along south side of sec. 29, T. 6 S., R. 7 E.; | |
| iron post stamped "DW 3258" | 3, 260. 385 |

RAPID QUADRANGLE.

[Latitude 44°-44° 30'; longitude 103°-103° 30'.]

From Brennan along Chicago & North Western Ry. via Rapid to Sturgis.

| | Rapid, 3 miles southeast of, sec. 23, T. 1 N., R. 8 E., 1,200 feet east | |
|---|--|-----------------|
| 1 | of northwest corner and 30 feet south of north line, 50 feet west of | |
| ł | track, 40 feet east of angle in county road; iron post stamped "DW | Feet. |
| ı | 3218" | |
| ı | Rapid, in front of ticket office, main track; top of rail | 3, 200. 4 |
| ı | Rapid, courthouse yard, 80 feet southwest of southwest corner of | A STATE OF |
| l | courthouse, in center of top of United States Geological Survey | |
| | astronomic pier; bronze tablet stamped "DW 3228." (Center of | and the stand |
| | plate carefully centered over original cross cut in pier) | 3, 230, 944 |
| | Rapid, 3 miles west of, 40 feet southeast of crossing of Rapid-Roch- | |
| | ford wagon road, 400 feet east of section house 17; spike in west | |
| | side of cottonwood tree, 6 inches above ground | 3 268 65 |
| | Rapid, 5.2 miles northwest of, 65 feet southwest of crossing of Rapid | 0, 200. 00 |
| | and Blackhawk county road, 50 feet west of track, 80 feet south | |
| | of crossing, signpost scribed U. S. G. S., B. M., W. P., 4 feet north of | |
| | fence-corner post; iron post stamped "DW 3457" | 9 450 598 |
| | Blackhawk, in front of ticket office; top of rail | 2 405 7 |
| | | 0, 400. 1 |
| | Blackhawk, 100 feet northwest of station, in west corner of yard on | 9 409 405 |
| | northwest side of building; iron post stamped "DW 3491" | 5, 495. 495 |
| | Blackhawk, 2.4 miles northwest of, top of divide between Blackhawk | |
| | and Piedmont, 90 feet east of county-road crossing, 50 feet north- | Med Town |
| | east of track, 25 feet south of county road along east and west | |
| | section line, 1,150 feet east of northwest corner of sec. 31, T. 3 N., | |
| | R. 7 E.; iron post stamped "DW 3622" | 3, 624, 541 |
| | Piedmont, 1,400 feet southeast of station, southwest end of stone | |
| | culvert H 238, northwest side of stream, in top of wing wall 1 foot | |
| | below top of coping stone, 140 feet northeast of telegraph pole | |
| | marked U. S. G. S., B. M., W. P.; bronze tablet stamped "DW | |
| | 3460" | 3, 462, 605 |
| | Tilford, 2 miles southeast of, about 75 feet northwest of point where | Sept. Sandy |
| | Elk Creek wagon road crosses railroad track, 0.25 mile east of | |
| | mouth of Elk Creek Canyon, 150 feet northwest of junction of Elk | |
| | Creek wagon road with Sturgis-Rapid road; iron post stamped | |
| | "DW 3565" | 3, 567. 253 |
| | Tilford, in front of station; top of rail | 3, 582. 0 |
| | Tilford, 2.25 mile northwest of, 45 feet northeast of railroad cross- | |
| | ing, on east side of Sturgis-Rapid wagon road; iron post stamped | |
| | "DW 3693" | 3, 695. 711 |
| | Sturgis, 5.5 miles southeast of, about 500 feet southeast of Beaver | |
| | siding mile board, on west end of south cap of bridge H 256; top | |
| | of iron driftbolt | 3, 665, 94 |
| | Sturgis, 4.5 miles southeast of, 960 feet southeast of switch at | Star Control of |
| | Myers siding, 50 feet north of track, 100 feet south of Sturgis- | |
| | Rapid wagon road; iron post stamped "DW 3622" | 3, 624, 303 |
| | Myers siding, at switch; top of rail | 3, 619, 1 |
| | Sturgis, 2.8 miles southeast of, top of west end of north cap of bridge | 0.00 |
| | H 264, under which Sturgis-Rapid wagon road passes; iron drift- | |
| | boltbolt_ | 3 635 23 |
| | DOIL | 0, 000. 20 |

t. 567

369

At Pactola.

| Pactola, junction of road from Rapid with roads from Hill City and Silver City, 3 feet south of corner 15, mineral claim 891; iron post stamped "DW 4459" | Feet. 4, 461. 143 |
|--|--|
| From Riley ranch to McDonald ranch. | |
| Riley ranch, on Bogus Jim Creek, 2,000 feet northwest of, 10 feet southeast of road from Merritt, center of top of rock 8 by 7 by 2 feet; pine witness trees marked "U. S. G. S., B. M., W. T.," one 24-inch, northwest 75 feet, one 12-inch, north 75 feet, one 18-inch, | ALL STATE OF THE S |
| northwest 30 feet; copper bolt stamped "DW 4801" Jim Creek, 1,500 feet northeast of mouth, 190 feet north of highway bridge over Boxelder Creek, in east corner of flat rock 15 by 25 by | 4, 803, 133 |
| 4 feet; pine witness trees marked "U. S. G. S., B. M., W. T.," one 18-inch, southwest 36 feet, one 15-inch, northwest 36 feet, one 18- | |
| inch, northeast 20 feet; bronze tablet stamped "DW 4413" Estes ranch, 1.5 miles southeast of, 1,800 feet northwest of Elliott's sawmill, at west end of highway bridge over Boxelder Creek, | 4, 415. 086 |
| east side of 2-foot pine tree; spike in root Estes ranch, 150 feet northwest of dwelling, 12 feet northeast of | 4, 459. 63 |
| county road up Boxelder Creek, 30 feet northwest of junction with road running down Estes Creek; spike in south root of 18-inch pine tree | 4, 565. 61 |
| McDonald ranch, 575 feet northwest of, 15 feet west of county road | |
| up Boxelder Creek, at junction with private road from ranch; wit- | |
| up Boxelder Creek, at junction with private road from ranch; witness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; iron post stamped "DW 4614" | 4, 616. 041 |
| ness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; | 4, 616. 041 |
| ness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; iron post stamped "DW 4614" | 4, 616. 041 |
| ness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; iron post stamped "DW 4614" | |
| ness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; iron post stamped "DW 4614" | 4, 461. 143 |
| ness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; iron post stamped "DW 4614" From Pactola to Rockerville. Pactola, junction of road from Rapid with roads from Hill City and Silver City, 3 feet south of corner 15, M. C. 891; iron post stamped "DW 4459" Harvey ranch, 800 feet north of, on top of divide, east side of road; iron post stamped "DW 5021" Wetzell ranch, 2 miles south of, 2.5 miles north of intersection of Rapid, Pactola, and Sheridan roads, 30 feet east of road on top of divide; iron post stamped "DW 5042" | 4, 461. 143 5, 023. 316 |
| ness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; iron post stamped "DW 4614" From Pactola to Rockerville. Pactola, junction of road from Rapid with roads from Hill City and Silver City, 3 feet south of corner 15, M. C. 891; iron post stamped "DW 4459" Harvey ranch, 800 feet north of, on top of divide, east side of road; iron post stamped "DW 5021" Wetzell ranch, 2 miles south of, 2.5 miles north of intersection of Rapid, Pactola, and Sheridan roads, 30 feet east of road on top of divide; iron post stamped "DW 5042" Wetzell ranch, 3 miles south of, 1.5 miles north of intersection of Rapid, Pactola, and Sheridan roads, on top of ridge, 25 feet east of | 4, 461. 143 5, 023. 316 5, 044. 343 |
| ness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; iron post stamped "DW 4614" | 4, 461. 143 5, 023. 316 5, 044. 343 |
| ness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; iron post stamped "DW 4614" | 4, 461. 143 5, 023. 316 5, 044. 343 |
| ness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; iron post stamped "DW 4614" | 4, 461. 143 5, 023. 316 5, 044. 343 4, 866. 168 |
| ness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; iron post stamped "DW 4614" | 4, 461. 143 5, 023. 316 5, 044. 343 4, 866. 168 |
| ness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; iron post stamped "DW 4614" | 4, 461. 143 5, 023. 316 5, 044. 343 4, 866. 168 |
| ness trees marked "U. S. G. S. B. M. W. T.," one 18-inch, north 70 feet, one 18-inch, southeast 20 feet, one 12-inch, southwest 45 feet; iron post stamped "DW 4614" | 4, 461. 143 5, 023. 316 5, 044. 343 4, 866. 168 6, 541. 363 |

Belle Fourche and Newell 30' quadrangles.

BUTTE, LAWRENCE, AND MEADE COUNTIES.

The elevations in this list were originally based on a bronze tablet stamped "4543," set in the city-hall building at Deadwood in 1897, the elevation of which is now accepted as 4,545.672 feet above mean sea level. In 1908 the United States Coast and Geodetic Survey precise line redetermined United States Geological Survey bench marks near Edgemont, thus furnishing a more reliable connection with mean sea level.

The leveling in the Belle Fourche quadrangle was done in 1903 and 1904 by Chester Irvine, and in 1904 by M. S. Bright and C. H. Birdseye; that in the Newell quadrangle was done in 1904 by Chester Irvine and H. M. Hadley, and in 1910 by H. L. Caldwell. The leveling followed section lines almost to the exclusion of the few roads in this area.

BELLE FOURCHE 30' QUADRANGLE.

[Latitude 44° 30'-45°; longitude 103° 30'-104°.]

From point 900 feet east and 2,400 feet north of southwest corner of sec. 21, T. 9 N., R. 4 E., northwest to northwest corner of same section, thence north 4 miles to northwest corner of sec. 33, T. 10 N., R. 4 E., thence east to northwest corner of sec. 36 and south 4.8 miles to point 0.2 mile south of quarter corner between secs. 23 and 24, T. 9 N., R. 4 E.

T. 9 N. R. 4 E. 45 feet southeast of northwest stone at corner

| 1. 5 N., 1. 4 E., 45 feet southeast of northwest stone at corner of | Feet. |
|---|----------------------------|
| sec. 9; iron post stamped "2880 DW" | 2, 882, 168 |
| T. 10 N., R. 4 E., northwest corner of sec. 33; iron post stamped | |
| "2891 DW" | 2, 893, 117 |
| T. 10 N., R. 4 E., northwest corner of sec. 35; iron post stamped | |
| "2920 DW" | 2, 922. 238 |
| T. 9 N., R. 4 E., northwest corner of sec. 1; iron post stamped | The second second |
| "2872 DW" | 2, 874. 127 |
| T. 9 N., R. 4 E., northwest corner of sec. 13; iron post stamped | |
| "2877 DW " | 2 870 207 |
| T. 9 N., R. 4 E., 0.2 mile south of quarter corner between secs. 23 and | 2,010.201 |
| 24. ivon post stemped "9005 DW" | |
| 24; iron post stamped "2865 DW" | 2, 867. 057 |
| From northwest corner of sec. 16, T. 9 N., R. 4 E., west 1 mile, north 2 miles, east 2 miles, thence south 1 mile to northwest corner of sec. 33, T. 10 N., | |
| R. 4. E. | AND DOM |
| | allo and all all as |
| T. 9 N., R. 4 E., triangulation station No. 18, about 1,200 feet south- | |
| T. 9 N., R. 4 E., triangulation station No. 18, about 1,200 feet southwest of northwest corner of sec. 17; iron post stamped "3041 DW" | |
| T. 9 N., R. 4 E., triangulation station No. 18, about 1,200 feet southwest of northwest corner of sec. 17; iron post stamped "3041 DW" Tps. 9 and 10 N., Rs. 3 and 4 E., corner of; iron post stamped | 3, 043. 360 |
| T. 9 N., R. 4 E., triangulation station No. 18, about 1,200 feet southwest of northwest corner of sec. 17; iron post stamped "3041 DW" Tps. 9 and 10 N., Rs. 3 and 4 E., corner of; iron post stamped "2925 DW" | 3, 043. 360 |
| T. 9 N., R. 4 E., triangulation station No. 18, about 1,200 feet southwest of northwest corner of sec. 17; iron post stamped "3041 DW" Tps. 9 and 10 N., Rs. 3 and 4 E., corner of; iron post stamped "2925 DW" T. 10 N., R. 4 E., 30 feet south of quarter corner between secs. 19 | 3, 043. 360 2, 927. 215 |
| T. 9 N., R. 4 E., triangulation station No. 18, about 1,200 feet southwest of northwest corner of sec. 17; iron post stamped "3041 DW" Tps. 9 and 10 N., Rs. 3 and 4 E., corner of; iron post stamped "2925 DW" | 3, 043. 360 2, 927. 215 |

| From northwest corner of sec. 13, T. 9 N., R. 4 E., east 2 miles, south 1 mileast 1 mile, and south 2 miles to point 400 feet west of northwest corner o sec. 33, T. 9 N., R. 5 E. | |
|---|--|
| T. 9 N., R. 5 E., northwest corner of sec. 20; iron post stamped "2871 DW" | Feet. 2, 872, 818 |
| T. 9 N., R. 5 E., 400 feet west of northwest corner of sec. 33; iron post stamped "2981 DW" | 1 |
| From point 1,100 feet south of quarter corner between secs. 23 and 24, T. 9 N. R. 4 E., south 2 miles, east 1 mile, and south 1 mile, thence east 3 miles and north 0.5 mile to quarter corner between secs. 3 and 4, T. 8 N., R. 5 E. thence north 6.5 miles, west 1 mile, south 1 mile, west 2 miles, north 1 mile and west 1 mile to northwest corner of sec. 1, T. 9 N., R. 4 E. | d d |
| T. 9 N., R. 4 E., southeast corner of sec. 36; iron post stamped "2874 DW" (jog of 65 feet in north and south line) | |
| T. 8 N., R. 5 E., 35 feet southwest of northwest corner of sec. 8; iron | 1 |
| post stamped "2876 DW"T. 8 N., R. 5 E., quarter corner between secs. 3 and 4, about 400 feet | The legal |
| south of Owl Creek bridge; iron post stamped "2821 DW"T. 9 N., R. 5 E., 25 feet west of northwest corner of sec. 34; iron post | 2, 827. 560 |
| stamped "2854 DW"T. 9 N., R. 5 E., 5 feet northeast of fence at northwest corner of | 2, 856. 394 |
| sec. 22, west side of lane; iron post stamped "2826 DW" T. 9 N., R. 5 E., 3 feet east of northwest corner of sec. 10; iron post | 2, 827. 776 |
| stamped "2902 DW" | 2, 904. 638 |
| Tps. 9 and 10 N., R. 5 E., northwest corner of sec. 4; iron post stamped "2858 DW" | 2, 860. 348 |
| T. 9 N., R. 5 E., northwest corner of sec. 8; iron post stamped "2871 DW" | 2, 873. 234 |
| From northwest corner of sec. 30, T. 12 N., R. 5 E., south 2 miles, west 3 miles, and south 7 miles to northwest corner of sec. 10, T. 10 N., R. 9 E. | |
| T. 12 N., R. 5 E., northwest corner of sec. 30; iron post stamped "3164 DW" | 2 166 246 |
| T. 11 N., R. 4 E., northwest corner of sec. 1; iron post stamped "3194 DW" | |
| T. 11 N., R. 4 E., northwest corner of sec. 10; iron post stamped | |
| "3196 DW"T. 11 N., R. 4 E., northwest corner of sec. 27; iron post stamped | and the latest the lat |
| "3044 DW"T. 10 N., R. 4 E., northwest corner of sec. 10; iron post stamped | |
| "3028½ DW" | 3, 030. 748 |
| From corner of Tps. 9 and 10 N., Rs. 3 and 4 E., west 2 miles, north 1 mile, and west 1 mile, thence north 12 miles to northwest corner of sec. 34, T. 12 N., R. 3 E., thence west 6 miles to northwest corner of sec. 34, T. 12 N., R. 2 E., thence south 14 miles to northwest corner of sec. 10, T. 9 N., R. 2 E., thence east 1 mile and south 3 miles to northwest corner of sec. 26, T. 9 N., R. 2 E. | |
| T. 10 N., R. 3 E., northwest corner of sec. 35; iron post stamped | |
| "3054 DW"T. 10 N., R. 3 E., northwest corner of sec. 22; iron post stamped | |
| "2956 DW": Tps. 10 and 11 N., R. 3 E., northwest corner of sec. 3; iron post | |
| stamped "2948 DW" | 2, 950. 1 |

| | T. 11 N., R. 3 E., northwest corner of sec. 22; iron post stamped | Feet. |
|-----|---|-------------|
| | "3043 DW" | 3, 045. 073 |
| - 3 | T. 11 N. R. 3 E., near northwest corner of sec. 3 (no corner post | |
| et. | found), at heap of rocks; iron post stamped "3117 DW" | 3, 119. 169 |
| 818 | T. 12 N. R. 3 E., 30 feet northwest of northwest corner of sec. 32; | |
| OLC | iron post stamped "3126 DW" | 3, 128. 367 |
| 402 | T. 12 N., R. 2 E., quarter corner between secs. 26 and 35; iron post | |
| | stamped "3114 DW" | 3, 116. 026 |
| 1 | T. 11 N., R. 2 E., northwest corner of sec. 10; iron post stamped | |
| | "3104 DW" | 3, 106. 144 |
| 250 | T. 11 N., R. 2 E., 800 feet west and 180 feet north of northwest corner | |
| | of sec. 27, on summit of divide between Owl and Indian creeks; | 9 900 100 |
| | iron post stamped "3297 DW" | 3, 299. 160 |
| 200 | T. 10 N., R. 2 E., 30 feet southwest of northwest corner of sec. 10; iron post stamped "3034 DW" | 2 026 262 |
| 366 | T. 10 N., R. 2 E., between corner pits at northwest corner of sec. 27; | 5, 050. 202 |
| 002 | iron post stamped "3114 DW" | 3, 116, 141 |
| 02 | T. 9 N., R. 2 E., 1 foot west of northwest corner of sec. 11; iron post | 0, 440, 441 |
| 60 | stamped "3250 DW" | 3, 252, 097 |
| 7 | T. 9 N R. 2 E., at corner of secs. 22, 23, 26, and 27; iron post | |
| 94 | stamped "3076 DW " | 3, 078. 408 |
| 34 | the same standard commendation of specime application to the tra- | |
| 6 | From northwest corner of sec. 34, T. 12 N., R. 4 E., west 6 miles, thence south | |
| | 13 miles to northwest corner of sec. 3, T. 9 N., R. 1 E., thence east 1 mile, south 1 mile, and east 5 miles to northwest corner of sec. 10, T. 9 N., R. 2 E. | |
| 8 | | |
| | T. 12 N., R. 2 E., northwest corner of sec. 31; iron post stamped | |
| 8 | "3130 DW" | 3, 132. 100 |
| | T. 12 N., R. 1 E., northwest corner of sec. 34 (no corner found), in | |
| Ł | small draw 10 feet west of Alzada road; iron post stamped "3238 | 2 040 000 |
| 1 | DW"T. 11 N., R. 1 E., northwest corner of sec. 15; iron post stamped | 5, 240. 208 |
| 7 | "3123 DW" | 3 195 159 |
| | T. 11 N., R. 1 E., 450 feet north of northwest corner of sec. 3, T. 10 N., | 0, 120, 100 |
| | R. 2 E. (no corner post found), 150 feet northwest of clump of | |
| | three trees, in small creek bed; iron post stamped "3187 DW" | 3, 189, 173 |
| 10 | T. 10 N., R. 1 E., between corner pits northwest corner of sec. 22; iron | |
| | post stamped "3322 DW" | 3, 324. 307 |
| | Tos 9 and 10 N. R. 1 E., 1 foot west of northwest corner of sec. 2; | |
| | iron post stamped "3181 DW" | 3, 183. 371 |
| | T. 9 N., Rs. 1 and 2 E., 3 feet west of northwest corner of sec. 7; iron | 0 400 004 |
| | post stamped "3126 DW" | 3, 128. 291 |
| 1 | From Spearfish along county road to Belle Fourche, thence to The Forks. | |
| | From Spearnsh along county road to Belle Fourche, thence to the Toxas. | |
| | T. 7 N., R. 2 E., 1,200 feet south of quarter corner between secs. 34 | |
| | and 27; iron post stamped "3601 DW 1903" | 3, 603. 674 |
| 7 | T. 7 N. R. 2 E., 1,200 feet north of quarter corner between secs. 10 | |
| | and 15; iron post stamped "3343 DW 1903" | 3, 345. 420 |
| 1 | Willow Creek bridge, 400 feet south of, at fence corner, 40 feet north | 0.400.40 |
| 12 | of crossing of roads; iron post stamped "3360 DW 1903" | 3, 162. 184 |
| 1 | T. 8 N., R. 1 E., 300 feet east of stone at corner of secs. 11, 12, 13, and | 0 074 000 |
| 1 | 14, forks of road; iron post stamped "3373 DW 1903" | 5, 374, 932 |
| 1 | Joost schoolhouse, 100 feet north of; iron post stamped "3274 DW 1903" | 3 276 100 |
| 1 | 1903 " | 0, 210. 100 |

| The Forks (Robinson ranch), at junction of old Miles City stage road with road from Aladdin (coal bank), in sandstone bowlder 6 by 8 inches, 17 inches above ground; aluminum tablet stamped "3398 DW" | Feet. 3, 400, 235 |
|--|-------------------|
| From Belle Fourche along Three V ranch road to Middle Creek Butte. | |
| Belle Fourche, northeast corner of Butte County jail; iron post stamped "3036 DW 1903" | 3, 038. 478 |
| stone; azimuth tablet stamped "3011 DW " | 3, 013. 438 |
| Belle Fourche, 2.9 miles west of, 10 feet south of road, on rise near fence; iron post stamped "3098 DW 1903" | 3, 100, 099 |
| T. 9 N., R. 1 E., NE. 4 sec. 22, 30 feet south of wagon road; iron post stamped "3204 DW 1903" | 3, 205. 987 |
| Three V ranch, 2.5 miles north of; iron post | 3, 180, 891 |
| From Belle Fourche along county road via Richardson ranch and Giles Crossing to Belle Fourche. | |
| T. 9 N., R. 2 E., corner of secs. 22, 23, 26, and 27; iron post stamped "3076 DW 1903" | 3 078 408 |
| T. 9 N., R. 3 E., 0.2 mile north of quarter corner between secs. 29 and 32; iron post stamped "3029 DW 1903" | |
| T. 8 N., R. 3 E., just south of northwest corner of sec. 4; iron post stamped "3004 DW 1903" | |
| T. 8 N., R. 3 E., quarter corner between secs. 7 and 18; iron post stamped "3187 DW 1903". | |
| From Belle Fourche along railroad to St. Onge, thence along county road to | 3, 103. 204 |
| Centennial Prairie. | |
| T. 8 N., R. 3 E., corner of secs. 26, 30, 31, and 36; iron post stamped "3149 DW 1903" | 3, 151, 038 |
| T. 7 N., R. 3 E., 0.2 mile north of and 2,300 feet west of southeast corner of sec. 9; iron post stamped "3314 DW 1903" | |
| St. Onge, 200 feet west of station, 2,000 feet east of southwest corner of sec. 23, T. 7 N., R. 3 E.; iron post stamped "3428 DW 1903" | |
| T. 6 N., R. 3 E., corner of secs. 2, 3, 10, and 11; iron post stamped | |
| "3614 DW 1903" | 3, 616, 106 |
| From Belle Fourche along county road via Snoma and Big Bottom to St. Onge. T. 8 N., R. 3 E., 900 feet north of corner of secs. 14, 15, 22, and 23; | |
| iron post stamped "3097 DW 1903" | 3, 099. 334 |
| T. 8 N., R. 4 E., quarter corner between secs. 17 and 20; iron post stamped "2920 DW 1903" | 2, 922. 230 |
| T. 8 N., R. 4 E., corner of secs. 13, 14, 23, and 24; iron post stamped "2940 DW 1903" | 2, 942. 054 |
| T. 8 N., R. 5 E., corner of secs. 15, 16, 21, and 22; iron post stamped "2886 DW 1903" | 2, 888. 154 |
| T. 7 N., R. 5 E., 1,100 feet east of corner of secs. 4, 5, 8, and 9; iron post stamped "2984 DW 1903" | 2, 986. 233 |
| T. 7 N., R. 5 E., center of sec. 29; iron post stamped "3132 DW 1903" | |
| | 0, 101, 110 |

| 12 | THINAIL ENVENING. | 40 |
|--------|---|-------------|
| | 1.7 N., R. 5 E., 350 feet east of northwest corner of sec. 19; iron post | Feet. |
| | 8tamped " 3149 DW 1903 " | 3, 151, 047 |
| eet. | R. 7 N., R. 4 E., 200 feet west of quarter corner between secs. 31 and | |
| 0. 235 | 32; iron post stamped "3664 DW 1903" | 3, 666. 169 |
| | | |
| 11-1 | From Giles ranch along county road and across country via Owl Creek Bridge to | |
| | corner of secs. 15, 16, 21, and 22, T. 8 N., R. 5 E. | |
| 8. 478 | ^{T.} 9 N., R. 3 E., corner of secs. 26, 27, 34, and 36; iron post stamped | |
| 1703 | "2983 DW 1903" | 2, 985. 073 |
| . 438 | 1.9 N., R. 4 E., 400 feet north and 1,600 feet west of southeast corner | |
| Til | of sec. 30; iron post stamped "2960 DW 1903" | 2, 962, 127 |
| 099 | T. 9 N., R. 4 E., 900 feet east and 2,400 feet north of southwest corner | |
| - 3 | of sec. 21; iron post stamped "2933 DW 1903" | 2, 935. 123 |
| 987 | T. 9 N., R. 5 E., 1,600 feet north of corner of secs. 23, 24, 25, and 26; | |
| 891 | iron post stamped "2865 DW 1903" | 2, 867. 057 |
| | T. 9 N., R. 5 E., 500 feet west of corner of secs. 28, 29, 32, and 33; | 0.000.40 |
| 11 11 | iron post stamped "2981 DW 1903" | 2, 983, 42 |
| 303 | iron post stamped "2821 DW 1903" | 9 899 480 |
| 1 | Post Stamped 2021 D # 1000 | 2, 022. 100 |
| 108 | NEWELL QUADRANGLE. | |
| 200 | Hatibala 449 904 450 . L L 400 4000 904 7 | |
| 33 | [Latitude 44° 30′-45°; longitude 103°-103° 30′.] | |
| 01 | From northwest corner of sec. 22, T. 8 N., R. 5 E., east 1 mile, south 1 mile, | |
| 01 | east 1 mile, south one-half mile, east 1 mile, and south one-half mile to north- west corner of sec. 31, T. 8 N., R. 6 E., thence east 10 miles to northwest | |
| 04 | corner of sec. 35, T. 8 N., R. 7 E., thence north 2 miles, east 1 mile, | |
| | north 1 mile, and west 10 miles to northwest corner of sec. 13, T. 8 N., | |
| | R. 5 E., thence north 1 mile, west 2 miles, and north one-half mile to section line 2,100 feet north of northwest corner of sec. 10, T. 8 N., R. 5 E. | |
| | | |
| | T. 8 N., R. 5 E., 30 feet northeast of northwest corner of sec. 25; iron | |
| 8 | post stamped "2815 DW" | 2, 817, 202 |
| | T. 8 N., R. 6 E., 40 feet northwest of northwest corner of sec. 32; iron | |
| 3 | post stamped "2788 DW" | 2, 790, 078 |
| | T. 8 N., R. 6 E., 40 feet southwest of northwest corner of sec. 35; iron | |
| | post stamped "2812 DW"T. 8 N., Rs. 6 and 7 E., 30 feet southwest of northwest corner of sec. | 2, 810. 297 |
| 10 | 31; iron post stamped "2783 DW" | 9 705 191 |
| 1 30 | T. 8 N., R. 7 E., 50 feet southeast of northwest corner of sec. 33; iron | 2, 100, 101 |
| | post stamped "2710 DW" | 9 719 071 |
| 13 | T. 8 N., R. 7 E., 40 feet southeast of northwest corner of sec. 35; iron | 2, 112.011 |
| | post stamped "2679 DW" | 2, 679, 925 |
| 3/2 | T. 8 N., R. 7 E., northwest corner of sec. 23; iron post stamped | 4 4 4 7 |
| 1 | "2777 DW" | 2, 778. 256 |
| 1 3 | T. 8 N., R. 7 E., near northwest corner of sec. 16, at fence corner | |
| | south of road; iron post stamped "2726 DW" | 2, 726. 926 |
| 13 | T. 8 N., Rs. 6 and 7 E., 40 feet southeast of northwest corner of sec. | |
| 4 1 | 18; iron post stamped "2728 DW" | 2, 729. 011 |
| | T. 8 N., R. 6 E., 40 feet southeast of northwest corner of sec. 14; iron | |
| 1 | post stamped "2751 DW" | 2, 752. 136 |
| 1 | | |
| | T. 8 N., R. 6 E., 50 feet southwest of southeast corner of sec. 7; iron | 0 000 300 |
| 12 | post stamped "2903 DW"29392°—Bull. 643—16——4 | 2, 905. 107 |

| T. 8 N., R. 5 E., at quarter corner between secs. 11 and 12; iron post | Feet. |
|---|-------------|
| stamped "2819 DW" | 2, 820. 010 |
| T. 8 N., R. 5 E., 2,100 feet north of northwest corner of sec. 10; iron | |
| post stamped "2820 DW" | 2, 822, 560 |
| From Horse Creek Bridge at Steager ranch east 2 miles and south 1 mile, thence east 9 miles to northwest corner of sec. 33, T. 9 N., R. 7 E., thence south 3 miles to northwest corner of sec. 16, T. 8 N., R. 7 E. | |
| T. 9 N., R. 5 E., southeast corner of sec. 23; iron post stamped "2903 DW" | 2 905 185 |
| T. 9 N., R. 6 E., quarter corner between secs. 30 and 31; iron post stamped "2857 DW" | |
| T. 9 N., R. 6 E., quarter corner between secs. 28 and 33; iron post stamped "2810 DW" | |
| T. 9 N., R. 6 E., southeast corner of sec. 26; iron post stamped "2805 DW" | |
| T. 9 N., R. 7 E., southeast corner of sec. 29; iron post stamped "2840 DW" | |
| From northwest corner of sec. 15, T. 9 N., R. 5 E., east 3 miles, north 2 miles, east 2 miles, and south and east 5 miles to quarter corner between secs. 28 and 33, T. 9 N., R. 6 E. | |
| T. 9 N., R. 6 E., northwest corner of sec. 18; iron post stamped "2850 DW" | 2, 852, 144 |
| Tps. 9 and 10 N., Rs. 5 and 6 E., corner of; iron post stamped "2898 DW 1904" | Street mark |
| T. 9 N., R. 6 E., northwest corner of sec. 4; iron post stamped "2909 DW" | |
| T. 9 N., R. 6 E., 30 feet south of northwest corner of sec. 16; iron post stamped "2871 DW" | |
| From northwest corner of sec. 16, T. 9 N., R. 6 E., east 6 miles, north 1 mile, and east 2 miles to northwest corner of sec. 11, T. 9 N., R. 7 E., thence south 1 mile, west 1 mile, south 1 mile, west 1 mile, and south 2 miles to northwest corner of sec. 33, T. 9 N., R. 7 E. | |
| T. 9 N., R. 6 E., 380 feet north of northwest corner of sec. 13; iron post stamped "2897 DW" | 2 800 004 |
| T. 9 N., R. 7 E., northwest corner of sec. 17; iron post stamped "2776 DW" | |
| T. 9 N., R. 7 E., northwest corner of sec. 10; iron post stamped "2902 DW" | |
| T. 9 N., R. 7 E., northwest corner of sec. 14; iron post stamped "2908 DW" | |
| T. 9 N., R. 7 E., northwest corner of sec. 21; iron post stamped "2873 DW" | |
| | 2, 815. 024 |
| From point 40 feet southwest of northwest corner of sec. 35, T. 8 N., R. 6 E., south 3 miles, west 6 miles, south 0.5 mile, east 1 mile, south 1.5 miles, east 1 mile, and south 2 miles to corner of Tps. 6 and 7 N., Rs. 5 and 6 E., thence east 8 miles, north 4 miles, east 1 mile, north 2 miles, and northwest 1 mile to point 50 feet southeast of northwest corner of sec. 33, T. 8 N., R. 7 E. | |
| T. 7 N., R. 6 E., northwest corner of sec. 14; iron post stamped "2890 DW"2 | 2, 892. 191 |
| T. 7 N., R. 6 E., 300 feet east of northwest corner of sec. 17; iron post stamped "3025 DW" | |
| T. 7 N., R. 5 E., northwest corner of sec. 14; iron post stamped "2908 DW"2 | |

| | PRIMARY LEVELING. | 51 |
|------------|--|-------------|
| eet. | T. 7 N., R. 5 E., northwest corner of sec. 25; iron post stamped "2934 | West |
| 0. 010 | DW " | 2, 936, 183 |
| 2. 560 | T. 6 N., R. 6 E., northwest corner of sec. 6; iron post stamped "3037 | |
| . 55. | DW "T. 6 N., R. 6 E., northwest corner of sec. 3; iron post stamped "3068 | 3, 039, 214 |
| - 4 | DW " | 3, 070, 219 |
| | Tps. 6 and 7 N., Rs. 6 and 7 E., corner of; iron post stamped "2983 | |
| 400 | DW" | 2, 985, 267 |
| . 185 | T. 7 N., R. 7 E., northwest corner of sec. 33; iron post stamped "2942 DW" | 2 944 254 |
| 284 | T. 7 N., R. 7 E., northwest corner of sec. 16; iron post stamped "2819 | |
| | DW " | 2, 821. 20 |
| 292 | From northwest corner of sec. 10, T. 9 N., R. 7 E., north 15 miles to northwest | |
| 112 | corner of sec. 27, T. 12 N., R. 7 E., thence east 6 miles to northwest corner of sec. 27, T. 12 N., R. 6 E., thence south 14 miles and west 1 mile to north- | |
| | West corner of sec. 4, T. 9 N., R. 6 E. | |
| 016 | T. 10 N., R. 7 E., northwest corner of sec. 27; iron post stamped "2935 | |
| A STATE OF | DW " | 2, 937. 050 |
| | T. 10 N., R. 7 E., northwest corner of sec. 10; iron post stamped "3093 | 2 004 005 |
| | DW"T. 11 N., R. 7 E., northwest corner of sec. 27; iron post stamped | 5, 094, 935 |
| 14 | "3004 DW" | 3, 006, 04 |
| 7 | T. 11 N., R. 7 E., northwest corner of sec. 10; iron post stamped | Charles . |
| 78 | "2927 DW"T. 12 N., R. 7 E., northwest corner of sec. 27; iron post stamped | 2, 929. 00 |
| 7 | "2957 DW" | 2, 959, 27 |
| | T. 12 N., R. 7 E., northwest corner of sec. 30; iron post stamped | |
| 7 | "2979 DW"T. 12 N., R. 6 E., northwest corner of sec. 27; iron post stamped | 2, 981. 103 |
| 19 | T. 12 N., R. 6 E., northwest corner of sec. 27; from post stamped "3045 DW" | 3. 047 099 |
| | T. 11 N., R. 6 E., northwest corner of sec. 10; iron post stamped | |
| 13 | "3063 DW" | 3, 066. 137 |
| 10 | T. 11 N., R. 6 E., northwest corner of sec. 27; iron post stamped "2986 DW" | 2.988 077 |
| 18 | T. 10 N., R. 6 E., northwest corner of sec. 10; iron post stamped | |
| | "2943 DW" | 2, 945. 172 |
| | T. 10 N., R. 6 E., northwest corner of sec. 27; iron post stamped "2929 DW" | 9 931 190 |
| | T. 9 N., R. 6 E., NW. ½ sec. 3, Dry triangulation station; iron post | 2, 001. 100 |
| 1 | stamped "3006 DW" | 3, 008. 023 |
| 1 | From northwest corner of sec. 10, T. 9 N., R. 5 E., north along section lines to | |
| 1 | northwest corner of sec. 30, T. 12 N., Rs. 4 and 5 E. | |
| | T. 10 N., R. 5 E., northwest corner of sec. 27; iron post stamped | 100 |
| | "2942 DW"T. 10 N., R. 5 E., northwest corner of sec. 10; iron post stamped | 2, 944. 017 |
| 1 | "2976 DW" | 2, 977, 114 |
| | T. 11 N., R. 5 E., northwest corner of sec. 27; iron post stamped | |
| | "3160 DW" | 3, 162. 026 |
| 1 | T. 11 N., R. 5 E., northwest corner of sec. 10; iron post stamped "3049 DW" | 3. 051. 214 |
| 1 | T. 12 N., R. 5 E., northwest corner of sec. 27; iron post stamped | 0, 001, 214 |
| | "3169 DW" | 3, 171. 082 |
| 100 | 14 Zu 0 | |

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| From northwest corner of sec. 33, T. 7 N., R. 7 E., east along line between Tps. 6 and 7 N., thence north along line between Rs. 8 and 9, thence west along line between Tps. 11 and 12 N. to northwest corner of sec. 10, T. 11 N., R. 7 E. | |
|---|-------------|
| Note.—The original error of this line was 2.66 feet. The line was adjusted by correcting 2.06 feet of this error between secs. 17 and 18, T. 8 N., R. 9 E., where doubt exists, and the remainder by distribution. Reliance can not be placed on these elevations until | |
| they are checked by further field work. | |
| T. 7 N., R. 7 E., northwest corner of sec. 33; iron post stamped "2942" | 2, 944, 254 |
| T. 6 N., R. 7 E., northwest corner of sec. 3; top of corner stone marked "2901" T. 6 N., R. 7 E., northwest corner of sec. 2; top of corner stone | 2, 898. 83 |
| T. 6 N., R. 7 E., northwest corner of sec. 2; top of corner stone marked "2894" | 2, 892. 07 |
| marked "2894"T. 6 N., R. 7 E., northwest corner of sec. 1; top of corner stone marked "2839" | 2, 836, 53 |
| T. 6 N., R. 8 E., northwest corner of sec. 6; iron post stamped "2793" | 2, 790, 513 |
| T. 6 N., R. 8 E., northwest corner of sec. 5; top of corner stone marked "2745" | |
| T. 6 N., R. 8 E., 40 feet northwest of iron bridge, on Belle Fourche River; iron post stamped "2555" | |
| T. 7 N., R. 8 E., northwest corner of SW. 4 sec. 24; top of rock marked "2781" | |
| T. 7 N., R. 9 E., northwest corner of sec. 19; iron post stamped "2761" | |
| T. 7 N., R. 9 E., northwest corner of SW. 4 sec. 7; top of rock marked "2766" | |
| T. 7 N., R. 9 E., northwest corner of sec. 7; top of corner stone marked "2741" | |
| T. 7 N., R. 9 E., northwest corner of sec. 6; iron post stamped "2733"_ | |
| T. 8 N., R. 8 E., 600 feet northwest of southeast corner of sec. 36; square cut in top of large rock, marked "2774" | 2, 771. 94 |
| T. 8 N., R. 9 E., west side of sec. 19, on section line; large rock marked "2752" | 2, 750, 15 |
| T. 8 N., R. 9 E., near center of sec. 18; large rock marked "2788" T. 8 N., R. 9 E., northwest corner of sec. 17; iron post stamped | 2,786.63 |
| "2701" T. 8 N., R. 9 E., northwest corner of SW. ‡ sec, 6; top of rock | 2, 701. 336 |
| marked "2745"T. 8 N., R. 9 E., northwest corner of sec. 6; iron post stamped | 2, 745, 21 |
| " 2770 " | 2,770.228 |
| T. 9 N., R. 9 E., on line between secs. 31 and 36, northwest corner of sec. 31; rock marked "2810" | 2, 810. 20 |
| T. 9 N., R. 9 E., northwest corner of sec 19; iron post stamped "2851" | 2, 851. 355 |
| T. 9 N., R. 9 E., northwest corner of NE. 4 sec. 7; top of rock marked "2875" | 2, 875. 37 |
| T. 9 N., R. 9 E., northwest corner of sec. 5; iron post stamped "2818" | |
| T. 10 N., R. 9 E., northwest corner of SE. 4 sec. 19; top of large rock marked "2905" | |

| 70 40 40 | |
|--|---------------|
| T. 10 N., R. 9 E., northwest corner of sec. 19; iron post stampe | d Feet. |
| "2834" | 2, 834, 371 |
| T. 10 N., R. 9 E., on west line of sec. 18; large rock marked "2856"_ | 2 856 00 |
| T 10 N D 0 E west line of sec. 10, large rock marked 2000 | _ 2, 000.00 |
| T. 10 N., R. 9 E., west line of sec. 7, at top of high hill; large roc | K |
| marked "2871" | _ 2,871.32 |
| T. 10 N., R. 9 E., northwest corner of sec. 7; top of large roc | k |
| marked "2846" | 9 846 91 |
| T 10 N P 0 F porthwest some of a C. to a cot at | _ 2, 010. 21 |
| T. 10 N., R. 9 E., northwest corner of sec. 6; iron post stampe | 1 |
| "2876" | _ 2, 875. 931 |
| T. 11 N., R. 9 E., on west line of sec. 30, 500 feet south of northwes | t |
| corner of sec. 30; wooden stake marked "2825" | |
| T. 11 N., R. 9 E., northwest corner of sec. 19; iron post stampe | |
| "oror" | 1 |
| "2795" | 2, 795. 086 |
| T. 11 N., R. 9 E., 700 feet south and 300 feet west of northwes | t |
| corner of sec. 6; top of rock marked "2873" | 2, 873, 15 |
| T. 11 N., R. 9 E., 700 feet south and 300 feet west of northwes | |
| | |
| corner of sec. 6, in large rock; tablet stamped "2874" | |
| T. 11 N., R. 8 E., northwest corner of sec. 3; iron post stamped | l consider |
| "2910" | 2, 910. 245 |
| T. 11 N., R. 8 E., northwest corner of sec. 6, at top of hill north o | f |
| trail; iron post stamped "2926" | 9 000 90 |
| wait, non post stamped 2020 | - 4, 020. 55 |
| · · · · · · · · · · · · · · · · · · · | |

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1 22

9

New Effington, Peever, Sisseton, and White Rock quadrangles.

ROBERTS COUNTY.

The elevations in the following list were determined by primary leveling and accord with the 1912 adjustment of precise leveling and with Bulletin 560, "Results of spirit leveling in Minnesota, 1897–1912."

The leveling was done in 1915 by A. J. Kavanagh.

NEW EFFINGTON QUADRANGLE.

[Latitude 45° 45'-46°; longitude 96° 45'-97°.]

| From point near Rosholt west along highway to southeast corner of sec. 22, T. 128 N., R. 51 W. | |
|---|-------------|
| T. 128 N., R. 49 W., at the southeast corner of sec. 15, at the south- | |
| east corner of T road, in foot of telephone pole; head of spike | Feet. |
| marked "U.S.B.M. 1,086" | |
| T. 128 N., R. 49 W., at the southeast corner of sec. 16, at the south- | |
| west corner of T roads; iron post stamped "1,068" | 1.068 150 |
| T. 128 N., R. 49 W., at the southeast corner of sec. 17, where the | 2, 000. 200 |
| road swings south to cross slough, in foot of telephone pole; head | |
| of spike marked "U.S.B.M. 1,043.2" | 1 043 97 |
| T. 128 N., R. 49 W., 0.22 mile east of, southeast corner of sec. 18, in | 1, 010. 21 |
| foot of telephone pole, on north side of road; head of spike marked | |
| | 1 075 00 |
| "U.S.B.M. 1,075.2" | 1, 075. 25 |
| T. 128 N., R. 49 W., at the railroad crossing 0.5 mile south of Victor, | |
| 50 feet east of track; iron post stamped "1,085' | 1, 085. 435 |
| T. 128 N., R. 50 W., at the southeast corner of sec. 13, at the north- | ands. |
| east corner of T road, in foot of telephone pole; head of spike | |
| marked "U.S.B.M. 1,095.3" | 1, 095. 42 |
| | |

| T. 128 N., R. 50 W., 50 feet east of the southwest corner of sec. | |
|---|-------------|
| 13, on large bowlder, beside road; chiseled square marked | |
| "U.S.B.M. 1,092.5" | |
| T. 128 N., R. 50 W., near quarter corner, south side of sec. 14, in | |
| front of white church; iron post stamped "Prim. Trav. Sta. No. | |
| 2, 1915 " | 1, 097. 873 |
| T. 128 N., R. 50 W., near quarter corner south side of sec. 15, on | |
| small bowlder 15 feet north of road; chiseled square marked | |
| "U.S.B.M. 1,093.5" | 1, 093. 57 |
| T. 128 N., R. 50 W., 0.25 mile west of, New Effington, north of road, | |
| in bottom of fence post; head of spike marked "U.S.B.M. 1,101" | 1, 101. 20 |
| T. 128 N., R. 50 W., at quarter corner west side of sec. 21, 1 mile | |
| west of New Effington, where road turns south across railroad, | |
| 30 feet west of road; iron post stamped "1,102" | 1, 101. 634 |
| T. 128 N., R. 50 W., 0.25 mile east of southwest corner of sec. 20, in | |
| foot of telephone pole; head of spike marked "U.S.B.M. 1,164.9" | 1, 165. 01 |
| T. 128 N., R. 51 W., at the southeast corner of sec. 24, in foot of tele- | |
| phone pole; head of spike marked "U.S.B.M. 1,162" | 1, 162. 07 |
| T. 128 N., R. 51 W., at the southeast corner of sec. 23, at the north- | |
| west corner of T road, 1 mile east of church; iron post stamped | |
| "1,204" | 1, 204. 286 |
| | |
| From northwest corner of sec. 32, T. 127 N., R. 49 W., along highways north | |
| 1 mile, thence east to southwest corner of sec. 23, same township. | |
| T. 127 N., R. 49 W., at the northeast corner of sec. 30, on large | |
| bowlder; chiseled square marked "U.S.B.M. 1,096" | 1, 096, 75 |
| T. 127 N., R. 49 W., at the northwest corner of sec. 28, on bowlder at | |
| southeast corner of T roads; chiseled square marked "U.S.B.M. | |
| 1,096.8 " | 1, 096. 63 |
| T. 127 N., R. 49 W., sec. 22, in yard of C. G. Geurts, in cement walk; | |
| bronze tablet stamped "1,100" | 1, 100, 172 |
| T. 127 N., R. 49 W., at the southwest corner of sec. 23, northeast | d maj Eur |
| corner of crossroads, in foot of telephone pole; head of spike | |
| marked "U.S.B.M. 1,090" | 1, 090, 07 |
| | |
| PEEVER QUADRANGLE. | |
| [Latitude 45° 30'-45° 45'; longitude 96° 45'-97°.] | |
| From southeast corner of sec. 27, T. 127 N., R. 51 W., east along highways to | |
| southeast corner of sec. 23, T. 128 N., R. 51 W. | |
| m 107 N D 51 W northwest some of an 90 1 N | |
| T. 127 N., R. 51 W., northwest corner of sec. 36, at the southeast | |
| corner of crossroads on bowlder; chiseled square marked "U.S.B.M. | |
| 1,200.5 " | 1, 200. 57 |
| T. 127 N., R. 50 W., northwest corner of sec. 31, at the southeast | |
| corner of crossroads, on bowlder; chiseled square marked "U.S.B.M. | |
| 1,172" | 1,172. 21 |
| T. 127 N., R. 50 W., at the southeast corner of sec. 30, at fence | |
| corner; iron post stamped "1,154" | 1, 154. 451 |
| T. 127 N., R. 50 W., 400 feet west of southeast corner of sec. 29, on the | |
| north side of stone culvert; chiseled square | 1, 145. 06 |
| T. 127 N., R. 50 W., at the northwest corner of sec. 34, in foot of tele- | |
| phone pole at the southeast corner of crossroads; head of spike | 410.10 |
| marked "U.S.B.M. 1,142.5" | 1, 142. 48 |

| The second secon | |
|--|--|
| T. 127 N., R. 50 W., at the northeast corner of sec 34, at crossroads; | Feet. |
| iron post stamped "Prim. Trav. Sta. No. 7, 1915, 1135" | 1, 135. 758 |
| T. 127 N., R. 50 W., north line of sec. 36, 0.4 mile east of bridge over | |
| drain of Cottonwood Dry Run, in foot of telephone pole on bank; | |
| head of spike marked "U.S.B.M. 1,057" | 1, 056. 99 |
| T. 127 N., R. 49 W., at the northwest corner of sec. 31, southeast | |
| corner of crossroads, on large granite bowlder; chiseled square, | |
| marked "U.S.B.M. 1,108" | 1, 107, 99 |
| T. 127 N., R. 49 W., at the northwest corner of sec. 32, in concrete step | |
| of Trinity Lutheran Church; bronze tablet stamped "1,102" | |
| of filming Batheran Charten, bronze tablet Stamped 1,102 11111 | 1, 102. 001 |
| SISSETON QUADRANGLE. | |
| [Latitude 45° 30'-46°; longitude 97°-97° 30'.] | |
| From southeast corner of sec. 22, T. 128 N., R. 51 W., south along highway to | |
| southeast corner of sec. 27, T. 127 N., R. 51 W., south along highway to | |
| T. 128 N., R. 51 W., at the southeast corner of sec. 22, at T road at | |
| church, on bowlder behind telephone pole; chiseled square marked | |
| "U.S.B.M. 1,228.4" | 1, 228, 53 |
| T. 128 N., R. 57 W., at the northeast corner of sec. 34, at the south- | Name and the |
| west corner of T road, on a small bowlder; chiseled square marked | |
| "U.S.B.M. 1,228.2" | 1, 228, 28 |
| T. 127 N., R. 47 W., at the northeast corner of sec. 3, southwest cor- | -, |
| ner of crossroads, in large granite bowlder, at fence corner; bronze | |
| tablet stamped "1,228" | 1, 229, 076 |
| T. 127 N., R. 51 W., 0.3 mile north of the southeast corner of sec. 10. | 1, 220, 010 |
| in telephone pole, west side of road; head of spike marked | |
| "U.S.B.M. 1,193" | 1, 193, 01 |
| T. 127 N., R. 51 W., at the southeast corner of sec. 15, in foot of tele- | -, |
| phone pole; head of spike marked "U.S.B.M. 1,180" | 1 180 05 |
| T. 127 N., R. 51 W., at the northeast corner of sec. 27, 50 feet south of | 1, 100.00 |
| crossroads, on bowlder; chiseled square marked "1,189" | 1 189 09 |
| T. 127 N., R. 51 W., at the southeast corner of sec. 27, 5 feet west of | 1, 100.00 |
| road north at crossroads; iron post stamped "Prim. Trav. Sta. | |
| No. 8, 1915, 1,198" | 1 100 199 |
| | 1, 100. 120 |
| From southeast corner of sec. 22, T. 12 N., R. 51 W., north along highways to | |
| North Dakota-South Dakota State line (part of a line in which an excess | |
| error is adjusted). | |
| T. 128 N., R. 51 W., 0.2 mile north of southeast corner of sec. 15, on | |
| red granite bowlder, 20 feet west of road; chiseled square marked | |
| "U.S.B.M. 1,216" | 1, 216. 29 |
| T. 128 N., R. 51 W., near east quarter corner of sec. 10, at foot of tele- | SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TO |
| phone pole: iron post stamped "1,191" | 1, 191, 658 |
| T. 128 N., R. 51 W., near the southwest corner of sec. 2, 12 feet inside | District Control |
| the yard of Norwegian Church, on bowlder; chiseled square | |
| marked "U.S.B.M. 1,237" | 1, 237, 20 |
| T. 128 N., R. 51 W., at the southwest corner of sec. 35, on bowlder at | State . |
| T road; chiseled square marked "U.S.B.M. 1,203.4" | 1, 203. 69 |
| T. 128 N., R. 51 W., at the southeast corner of sec. 27, 1 mile south | DE PENET |
| of North Dakota line, opposite small church; iron post stamped | |
| "1,208" | 1, 208, 220 |
| T. 129 N., R. 51 W., at the southwest corner of sec. 23, at State line, | Table 18. |
| 70 feet east of T road, on large bowlder; chiseled square marked | |
| "U.S. B. M. 1,200.5" | 1, 200. 76 |
| | |

WHITE ROCK QUADRANGLE.

[Latitude 45° 45'-46°; longitude 96° 30'-96° 45'.]

From reservation bridge along highway west and north to Rosholt, thence east 4.3 miles, thence north and east to White Rock.

| Reservation Bridge, 0.18 mile west of, 15 feet north of road; iron | |
|--|--|
| post stamped "978" | 977. 413 |
| T. 127 N., R. 48 W., on middle line of sec. 22, east and west road on | |
| bowlder in front of wood house; chiseled square marked | 1 007 00 |
| "U.S.B.M. 1,087.3" | 1, 087. 29 |
| T. 127 N., R. 48 W., on middle line of sec. 21, 0.3 mile east of north | |
| and south road, on bowlder 25 feet north of road; chiseled square | |
| marked "U.S.B.M. 1,095" | 1, 095. 04 |
| T. 127 N., R. 48 W., at the east quarter corner of sec. 20, at T road, 6 | The State of the S |
| feet west of road corner; iron post stamped "1,095" | 1, 095. 323 |
| T. 127 N., R. 48 W., 0.25 mile east of southwest corner of sec. 20, on | |
| bowlder, 5 feet north of road; chiseled square marked | |
| "U.S.B.M. 1,097" | 1, 097. 26 |
| T. 127 N., R. 48 W., at the northwest corner of sec. 30, at the south- | |
| east corner of T road; iron post stamped "1,094" Prim. Trav. | |
| Sta. No. 6, 1915 | 1, 093. 800 |
| T. 127 N., R. 48 W., 0.3 mile north of southwest corner of sec. 18, | |
| 20 feet west of road, on bowlder beside fence post; chiseled square | |
| marked "U.S.B.M. 1,091.6" | 1, 091. 41 |
| T. 127 N., R. 48 W., 0.4 mile north of southwest corner of sec. 7, | |
| 20 feet east of road, on large bowlder; chiseled square marked | |
| "U.S.B.M. 1,087" | 1, 086. 74 |
| T. 127 N., R. 48 W., at southwest quarter corner of sec. 6, 10 feet | |
| west of road; iron post stamped "1,078" | 1, 077. 586 |
| T. 128 N., R. 48 W., at the southwest corner of sec. 30, in foot | |
| of telephone pole; head of spike marked "U.S.B.M. 1,080.6" | 1, 080. 36 |
| T. 128 N., R. 48 W., at the southwest corner of sec. 19, at the | |
| southwest corner of T road south, on bowlder; chiseled square | |
| marked "U.S.B.M. 1,089.7" | 1, 089. 47 |
| Rosholt, S. Dak., at junction of Main Street and north-south road; | |
| iron post stamped "1,079" Prim. Trav. Sta. No. 1, 1915" | 1, 078. 172 |
| T. 128 N., R. 48 W., at the southeast corner of sec. 18, in foot of | |
| cottonwood tree; spike marked "U.S.B.M. 1,074" | 1, 073. 15 |
| T. 128 N., R. 48 W., 0.3 mile east of the southwest corner of sec. 16, | |
| on bowlder, 10 feet south of road; chiseled square marked | |
| "U.S.B.M. 1,070" | 1,069.19 |
| T. 128 N., R. 48 W., at the southeast corner of sec. 16, at the north- | |
| west corner of T road; iron post stamped "1,058" | 1, 057. 907 |
| T. 128 N., R, 48 W., at the southeast corner of sec. 15, northeast | |
| corner of T roads, in foot of telephone pole; head of spike marked | |
| "U.S.B.M. 1,039" | 1, 038. 64 |
| T. 128 N., R. 48 W., at the southwest corner of sec. 11, at the north- | |
| west corner of T roads, in foot of telephone pole; head of spike | |
| marked "U.S.B.M. 1,027.8" | 1, 027. 38 |
| T. 128 N., R. 48 W., at Moreland schoolhouse, southeast corner of sec. | No. of the last |
| 3; northwest corner of crossroads; iron post stamped "1,031" | 1, 030. 429 |
| T. 128 N., R. 48 W., northeast corner of sec. 3, on north side of stone | To the state of |
| culvert; chiseled square marked "U.S.B.M. 1,037.5" | 1, 037. 02 |

| T. 128 N., R. 48 W., 3.5 miles west of White Rock on White Rock-Vernon Road, at southeast corner of T road, in foot of telephone pole; head of spike marked "U.S.B.M. 1,033.7"T. 128 N., R. 48 W., 3 miles west of White Rock, 0.5 mile west of | Feet. 1, 033. 16 |
|---|---------------------|
| white schoolhouse, 15 feet north of road; iron post stamped "1,026" | 1, 025, 368 |
| slough, 2 miles west of White Rock; chiseled square marked "U.S.B.M. 976.1" | 975. 56 |
| White Rock, 1 mile west of, on north side of small bridge; chiseled square marked "U.S.B.M. 977" | 976. 39 |
| face of sandstone step; bronze tablet | 975, 992 |
| Building; bottom of hole in horizontal surface 1 | 974. 830 |
| From North Dakota-South Dakota State line south along highways to Rosholt. | |
| T. 129 N., R. 48 W., at the southwest corner of sec. 33, 2 feet from State line monument (N. DakS. Dak.); iron post stamped "Prim. Trav. Sta. No. 5, 1915, 1075" | 1, 074, 676 |
| T. 129 N., R. 48 W., at south quarter corner of fractional sec. 30, at T road, in foot of telephone pole; head of spike marked "U.S.B.M 1,075" | |
| T. 129 N., R. 48 W., at west line of fractional sec. 31 near quarter corner, in foot of cottonwood tree; head of spike marked "U.S.B.M. 1.094.4" | |
| T. 128 N., R. 48 W., northwest corner of sec. 6; iron post stamped "1,103" | |
| T. 128 N., R. 48 W., at the northwest corner of sec. 7, on bowlder at foot of road sign; chiseled square marked "U.S.B.M. 1,079.5"Rosholt, 1 mile north of, at road to west, in foot of telephone pole; | |
| head of spike marked "U.S.B.M. 1,027.6" | 1, 027. 61 |
| From southwest corner of sec. 23, T. 127 N., R. 49 W., east along highways to northwest corner of sec. 30, T. 127 N., R. 48 W. | |
| T. 127 N., R. 49 W., at the southwest corner of sec. 24, northeast corner of crossroads, in foot of telephone pole; head of spike marked | |
| " U.S.B.M. 1,110 " | 1, 109. 84 |
| Near Rosholt. | |

road, on large bowlder; chiseled square marked "U.S.B.M. 1,063.4" 1,063.49

1 This bench mark evidently has been tampered with.

T. 128 N., R. 49 W., at southeast corner of sec. 14, 15 feet north of T

APPENDIX A.

ELEVATIONS ADJUSTED BY THE UNITED STATES COAST AND GEODETIC SURVEY FROM PRECISE LEVELING.

Canton, Castlewood, Edgemont, Elkpoint, Hudson, James, Lake, Preston, Millbank, Ortonville, Sioux Falls, South Shore, Waubay, and White Rock quadrangles.

CODDINGTON, FALL RIVER, GRANT, HAMLIN, KINGSBURY, LAKE, LINCOLN, MINNEHAHA, MOODY, ROBERTS, AND UNION COUNTIES.

The following descriptions and elevations are taken from reports of the United States Coast and Geodetic Survey, and are republished by permission of the superintendent of that bureau. The bench marks were established by the Coast and Geodetic Survey and were included in its 1912 adjustment. The elevations are likely to be changed but little by any future adjustment.

WHITE ROCK QUADRANGLE.

[Latitude 45° 45'-46°; longitude 96° 30'-96° 45'.1

At White Rock.

White Rock, 75 meters west of Chicago, Milwaukee & St. Paul Ry. depot, in sandstone sill of Globe Building, on north side of Main Street, 3.1 meters east of southwest corner of building, 0.9 meter west of center of front doorway, 0.15 meter north of front edge of sill, 0.13 meter from framing and 0.15 meter above sidewalk; bottom of hole in horizontal surface (C. & G. S. b. m. A)_____

Feet. 974. 830

White Rock, 190 meters west of Chicago, Milwaukee & St. Paul Ry. depot, at front doorway of store of S. E. Oscarson, on north side of Main Street, 8 meters east of southwest corner of building, in top surface of sandstone sill, 1.2 meters west of center of doorway, 0.15 meter north of front edge, 0.15 meter from framing, and 0.4 meter above sidewalk; red-metal disk (C. & G. S. b. m. B)_____

975. 992

White Rock, 80 meters south of depot, 1.6 meters west of west rail of sidetrack, and 10 meters west of main track of Chicago, Milwaukee & St. Paul Ry., in granite foundation of grain elevator of Crown Elevator Co., in sloping surface of extreme northeast corner, 0.12 meter above ground, 1 meter below framing, 1.1 meters east of west edge of pier; bottom of hole in horizontal surface (C. & G. S. b. m. C)

972. 750

ORTONVILLE QUADRANGLE.

[Latitude 45° 15'-45° 30'; longitude 96° 15'-96° 30'.]

Near Bigstone City.

MILLBANK QUADRANGLE.

[Latitude 45°-45° 15'; longitude 96° 30'-96° 45'.]

Near Millbank.

| Bigstone City, 5.4 kilometers west of, near southeast corner of |
|---|
| NE. 1/2 sec. 23, T. 121 N., R. 47 W., 9 meters south of Chicago, Mil- |
| waukee & St. Paul Ry. track, at grade crossing, 5 meters east of |
| line of travel; at intersection of highway and right-of-way lines, |
| at northwest corner of cultivated field belonging to Aug. Lueck; |
| 3-inch red-metal cap on iron pipe (C. & G. S. b. m. F) 1,048.696 |
| Milbank, 9.5 kilometers east of, near northwest corner of NW. 1 |
| sec. 34, T. 121 N., R. 47 W., 14 meters north of railroad track, |
| 36 meters east of grade crossing, on right-of-way line, 8 meters |
| southeast of line of travel, at southwest corner of cultivated field; |
| 3-inch red-metal cap on iron pipe (C. & G. S. b. 11. G) 1,064.597 |
| Milbank, 0.8 kilometer east of railroad station, 16 meters south of |
| railroad track, 8 meters west of center of Eastman Street, at |
| intersection of right-of-way street lines, at northeast corner of |
| lot belonging to W. H. Gaynor; top of half-inch copper bolt in stone |
| post (C. & G. S. b. m. H)1,145.618 |
| Milbank, 180 meters south of railroad station, in sandstone doorsill |
| at north entrance of Masonic Building, 0.25 meter east of front |
| edge of sill, 1.2 meters south of north wall of building, 0.25 meter |
| north of framing, and 0.05 meter above sidewalk; red-metal disk |
| (C. & G. S. b. m. I)1, 150. 230 |
| Milbank, 2.2 kilometers west of, near center of east side of NE. $\frac{1}{4}$ sec. |
| 11, T. 120 N., R. 49 W., 15 meters south of railroad track, at grade |
| crossing, 5 meters west of line of travel, at intersection of highway |
| line and right-of-way fence, at northeast corner of field of C. D. |
| Fairchild; 3-inch red-metal cap on iron pipe (C. & G. S. b. m. J) 1, 150. 135 |
| |

SOUTH SHORE QUADRANGLE.

[Latitude 45°-45° 15'; longitude 96° 45'-97°.]

From Twinbrooks southwest along Chicago, Milwaukee & St. Paul Ry. to Forestville.

| Twinbrooks, 1.7 kilometers east of, 14 meters north of railway | |
|---|-------------|
| track, 176 meters north of southeast corner of sec. 12, T. 120 N., | |
| R. 50 W., 11 meters west of east line of section, at intersection of | |
| highway and right-of-way lines, at southeast corner of cultivated | |
| field belonging to J. Q. Thayer; 3-inch red-metal cap on iron pipe | Feet. |
| (C. & G. S. b. m. K) | 1, 238, 968 |
| Twinbrooks, 140 meters west of depot, 15 meters north of main rail- | |
| way track, in granite foundation of Farmers' Elevator, at south- | |
| east corner of upper surface, 4 centimeters northwest of corner, | |
| and 1.2 meters above ground, marked by U.S.B.M. in wood above; | spinion |
| bottom of hole in horizontal surface (C. & G. S. b. m. L) | 1, 261. 530 |
| Stockholm, 11 meters southeast of northwest corner of SW. 1/4 sec. | |
| 23, T. 119 N., R. 50 W., 134 meters south and 36 meters east of | |
| railway station, on land belonging to Aug. Berg, 8 meters east | |
| and 9 meters south of intersecting roads on highway lines; 3-inch | |
| red-metal cap on iron pipe (C. & G. S. b. m. M) | 1, 663. 143 |
| South Shore, 43 meters west of the station, 5 meters north from | |
| main railway track, under railway water tank, on southern pier | |
| (red sandstone) of eastern pair, 0.1 meter west of east side, 0.25 | |
| meter north of south side, and 0.03 meter above ground; bottom | |
| of hole in horizontal surface (C. & G. S. b. m. N) | 1, 862. 361 |
| South Shore, in north wall (yellow brick) of Johnston & Chervenka's | |
| store, 15 meters west of Main Street, 9 meters south of Railroad | |
| Street, and 90 meters south of main railway track; 1.35 meters | |
| above sidewalk, 0.75 meter west of east edge of wall; red-metal | |
| | 1, 870, 042 |
| South Shore, 2.5 miles south of; on top of high knoll, called Punished | |
| Womans Mound, about center of sec. 34, T. 119 N., R. 51 W., on | |
| land of John Koehler, on grassy land, 28 meters north by east from | |
| northwest corner of fenced pasture; square hole in top of terra | 0 001 100 |
| | 2, 081. 498 |
| South Shore, 2.5 miles south of, 89.386 meters northwest of Mound | 9 059 016 |
| triangulation station; center (Mound Reference Mark) | 2, 052. 910 |
| Forestville, 2 kilometers east of, 7 kilometers by railroad west of South Shore, 390 meters north of southwest corner of sec. 32, T. 119 | |
| N., R. 51 W., 15 meters east of traveled road, 22 meters north of | |
| Great Northern Ry. track; 3-inch red-metal cap on iron pipe (C. & | To estate |
| G. S. b. m. P) | 1 896 998 |
| G. D. D. M. L / | 2,000.000 |
| | |

WAUBAY QUADRANGLE.

[Latitude 45°-45° 30'; longitude 97°-97° 30'.]

North of Watertown.

Watertown, 8 miles by road north of, at southwest corner of sec. 21, T. 118 N., R. 52 W., 8 meters east and north of intersecting roads, 100 meters west of Great Northern Ry. track, in southwest corner of a lot, 38 meters from a house rented by Rev. R. Polzin; 3-inch red-metal cap on iron pipe (C. & G. S. b. m. Q)_______1,783.845

CASTLEWOOD QUADRANGLE.

[Latitude 44° 30'-45°; longitude 97°-97° 30'.]

From point near Watertown southwest along Chicago, Milwaukee & St. Paul and Great Northern railways to Bryant.

| dieat Northern Tanways to Bryant. | |
|--|-------------|
| Watertown, 5.8 kilometers north of, 33 meters east of the southwest corner of sec. 7, T. 117 N., R. 52 W., 13 meters north of the traveled road, 16 meters east of the Great Northern Ry. track, near the right-of-way and highway lines, in the southwest corner of the lot of C. R. Siebert; 3-inch red-metal cap on iron pipe (C. & G. S. b. m. R) Watertown, 2 kilometers north of, near southeast corner of sec. 24, | Feet. |
| T. 117 N., R. 53 W., 44 meters west of Great Northern Ry. track, 7 meters north of private road to Whistler Bros. abattoir, at southeast corner of fenced pasture, 37 meters west of roadway, 108 meters east of abattoir; 3-inch red-metal cap on iron pipe (C. & G. S. b. m. S) | 1 707 011 |
| Watertown, at city hall, in west end of front doorsill, 0.4 meter south of front edge of sill, 1 meter west of center of doorway, 0.2 meter east of west pillar, 1 meter above and 1.5 meters south of sidewalk on south side of Kemp Avenue; red metal disk (C. & G. S. b. m. T)_ | |
| Watertown, at southeast corner of Mellett Block, Kemp Avenue and Oak Street, on upper surface of foundation, 0.07 meter north of south edge of stone, 0.09 meter west of east edge, 0.45 meter above sidewalk, 3.4 meters south of doorway; square in outline (C. & G. | |
| S. b. m. City 1) Watertown, at county courthouse, in upper bevel at extreme northeast corner of water table, 0.02 meter southwest of northeast corner, and 0.03 meter northeast of brickwork, 0.4 meter above ground; square | |
| hole (C. & G. S. b. m. City 2) Watertown, in southeast corner of courthouse grounds, 1.5 meters north of north line of Warner Avenue, 2 meters west of west line of Maple Street, on top of stone post, lettered U. S. C. & G. S.; a square in outline between the letters U. and S. (Watertown | design to |
| Magnetic Station) Watertown, in northeast corner of courthouse grounds, 1.5 meters south of south line of Codington Avenue, 1.5 meters west of west line of Maple Street, in a grass lawn in sandy soil; iron post (C. & G. S. b. m. U) | |
| Watertown, in northeast corner of courthouse ground, 1.5 meters south of south line of Codington Avenue, and 1.5 meters west of west line of Maple Street, set in a grass lawn, in sandy soil, on top of stone post; 3-inch red-metal cap (C. & G. S. b. m. U) | |
| Watertown, near center of western side of SW. ¼ sec. 31, T. 117 N., R. 52 W., on northern one of west pair of piers under Great Northern Ry. water tank, 500 meters south of Kemp Avenue, 12 meters west of track, 4 centimeters east of west edge of stone and 5 centimeters south of north edge, 23 centimeters above ground; bottom | to the co |
| of hole in horizontal surface (C. & G. S. b. m. V)Grover, 2.2 kilometers east of, near center of west side of lot 3 of W. ½ sec. 30, T. 116, R. 53, 17 meters north of railway track, 9 meters east of roadway, and 1.9 meters below rails, 1 meter north and east of highway and railway lines, in stone post; top of \$\frac{3}{8}\$-inch geometric holt (C. & G. S. b. m. W) | |
| copper bolt (C. & G. S. b. m. W) | 1, 140, 555 |

| Grover, near center of east side of NE. 4 sec. 35, T. 116, R. 54, 366 | |
|---|-------------|
| meters east of railway station, 40 meters south of track, 15 meters | |
| west and 10 meters south of roadways, 5 meters south of corner | |
| and on the east line of pasture belonging to John Zimprecht, 1 | |
| meter below rails, in stone post; top of g-inch copper bolt (C. & | Feet. |
| G. S. b. m. "X") | 1,740.200 |
| Hazel, 3.5 miles east of, near center of SW. 4 sec. 4, T. 115, R. 54, 3.9 | |
| meters north of Great Northern Ry. track, 20 meters south of | |
| roadway beside the track, on highest point of extreme north rim | |
| of an iron tile set solidly in rough masonry, 0.9 meter below rails | |
| and 0.7 meter above ground; a square in outline (C. &. G. S. | |
| b. m. Y) | |
| Hazel, at entrance of the First State Bank, at southwest corner of | 20 123 .7 |
| Main Street and the north-south quarter section line through center | |
| of sec. 24, T. 115, R. 55, 0.13 meter east of west brick wall, 1.13 | |
| meters west of corner of doorway, 11 meters west of northeast cor- | |
| ner of building, in extreme northwest corner of mosaic, 0.42 meter | |
| south of front edge of top step, 0.67 meter above sidewalk; a | |
| right-angled piece of white tiling, 50 by 35 millimeters (C. & G. S. | Marie to 4 |
| | 1 788 008 |
| b. m. Z) Hazel, at southwest corner of Merchants Hotel, 21 meters west of | 1, 100. 500 |
| | |
| northwest corner of Main Street and north-south quarter section | |
| line through center of sec. 24, T. 115, R. 55, in bevel on front upper | |
| edge of pink sandstone water table, 3.74 meters west of center of | |
| doorway, 0.08 meter east of west side of building, at north edge of | |
| and 0.34 meter above sidewalk; bottom of hole in horizontal sur- | 1 700 700 |
| face (C. & G. S. b. m. A ₁) | 1, 766. 709 |
| Hazel, 200 meters west of railway station, near center of east side of | |
| N. \(\frac{1}{4}\) sec. 24, T. 115, R. 55, 75 meters south of main track, on east | |
| line of and 5 meters south of northeast corner of pasture belonging | |
| to Samuel Conway, 8 meters west of roadway, 1.6 meters below | - |
| rails; top of 3-inch copper bolt in stone post (C. & G. S. b. m. B ₁) | 1, 759. 846 |
| Hazel, 3 kilometers west of, 10 meters west-southwest of northeast | |
| corner of sec. 27, T. 115, R. 55, 65 meters south of track, 2 meters | |
| west of corner and on north line of cultivated field; 3-inch red- | |
| metal cap on iron pipe (C. & G. S. b. m. C ₁) | 1, 792. 312 |
| Hazel, 5.7 kilometers west of, near center of south side of SW. 1 | |
| sec. 28, T. 115, R. 55, 27 meters east of grade crossing, 20 meters | |
| south of railway tracks, 32 meters north of roadway on south sec- | |
| tion line, 10 meters north of roadway along tracks, 1.8 meters below | The second |
| rails; 3-inch red-metal cap on iron pipe (C. & G. S. b. m. D ₁) | 1, 791. 256 |
| Vienna, 3 kilometers west of, near center of SE. 4 sec. 31, T. 115, R. | |
| 55, on western one of south pair of piers under Great Northern | |
| Ry. water tank, 3.3 meters south of track, 4 centimeters north of | |
| south edge, 4 centimeters west of east edge, on pink sandstone, | |
| 0.4 meter below rails; bottom of hole in horizontal surface (C. & | |
| G. S. b. m. E ₁) | 1, 791. 437 |
| Vienna, 1 kilometer east of, on east line of SE ¼ sec. 1, T. 114, R. 56, | 130 |
| 35 meters north of Great Northern Ry. track, 6 meters west of | |
| roadway, 5 meters north of corner and on east line of pasture, 1 | |
| meter above rails; top of 3-inch copper bolt in stone post | |
| (C. & G. S. b. m. F ₁) | 1, 829. 915 |
| Vienna, 38 meters south of Chicago, Milwaukee & St. Paul Ry. sta- | |
| tion, 9 meters west of main track, 60 meters south of north line of | |
| | |

| sec. 12, T. 114, R. 56, on sandstone foundation under northeast cor- | |
|--|--|
| | |
| ner of grain elevator belonging to S. Y. Hyde, 0.45 meter south of | - |
| northeast corner of stone, 2 centimeters west of eastern edge, | |
| 0.15 meter above ground, 0.15 meter below rails; bottom of hole in | Feet. |
| horizontal surface (C. & G. S. b. m. G1) | 1, 829, 927 |
| Vienna, 3.6 kilometers south of, on north line of sec. 19, T. 114, R. | and the colonial colonial |
| | |
| 55, near northwest corner of northeast quarter section; 21 meters | |
| west of Chicago, Milwaukee & St. Paul Ry., 4 meters south of | |
| highway, 1 meter north of north line of and 3 meters west of | - 1-11-11 |
| northeast corner of cultivated field belonging to William Dede, | |
| 0.5 meter above rails; 3-inch red-metal cap on iron pipe (C. & | |
| | 1 010 000 |
| G. S. b. m. H ₁) | 1, 810. 808 |
| Bryant, 1.9 kilometers north of, 16 meters east-northeast of quarter- | |
| section post on west line of sec. 8, T. 113, R. 55, 6 meters north and | |
| 15 meters east of quarter-section lines; 23 meters east of Chicago, | |
| Milwaukee & St. Paul Ry., 1 meter northeast of southwest corner of | |
| | |
| pasture belonging to F. H. Guse; 0.4 meter above rails; 3-inch red- | |
| metal cap on iron pipe (C. & G. S. b. m. I ₁) | 1, 831. 827 |
| Bryant, 1.7 kilometers north of, 240 meters south of northeast corner | |
| of SE. 4 sec. 7, T. 113, R. 55; 13 meters west of Chicago, Mil- | |
| waukee & St. Paul Ry., on northern one of western pair of piers | |
| | |
| under water tank; 0.07 meter south of northern edge, 0.10 meter | |
| west of eastern edge, 0.12 meter above ground at level of rails, in | |
| pink sandstone; bottom of hole in horizontal surface (C. & G. S. | |
| b, m, J ₁) | 1, 832, 214 |
| Bryant, 1.3 kilometers north of, between secs. 7, 8, 17, and 18, T. | Description of the last of the |
| 113. R. 55; in center of pink jasper post at level of ground and | |
| | The second |
| center of crossroads; a raised smooth square (C. & G. S. b. m. | |
| Section Corner 1) | |
| | 1, 845. 452 |
| | 1, 845. 452 |
| Bryant, at northeast corner of Main Street and railway property, | 1, 845. 452 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, | 1, 845. 452 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest | 1, 845. 452 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters | 1, 845. 452 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, | 1, 845. 452 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. ‡ sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centi- | 1, 845. 452 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. ‡ sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centi- | 1, 845. 452 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of | |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. ‡ sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁) | |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. ‡ sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁)Bryant, in tiling at southeast side of entrance to First State Bank, | |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁) | |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁)————Bryant, in tiling at southeast side of entrance to First State Bank, in extreme eastern corner of pattern, 0.85 meter west of the east side of building, 0.70 meter above sidewalk, 1.12 meters southeast | |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁)————Bryant, in tiling at southeast side of entrance to First State Bank, in extreme eastern corner of pattern, 0.85 meter west of the east side of building, 0.70 meter above sidewalk, 1.12 meters southeast | |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁)———————————————————————————————————— | |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁)————Bryant, in tiling at southeast side of entrance to First State Bank, in extreme eastern corner of pattern, 0.85 meter west of the east side of building, 0.70 meter above sidewalk, 1.12 meters southeast of center of doorway; 4 centimeters on each edge, the only piece of that size and shape, 0.12 meter southwest of and 0.11 meter north | |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁)———————————————————————————————————— | 1, 843. 727 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁)———————————————————————————————————— | 1, 843. 727 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁) | 1, 843. 727 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁) | 1, 843. 727 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁) | 1, 843. 727 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. ‡ sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁)———————————————————————————————————— | 1, 843. 727 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. 4 sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁)———————————————————————————————————— | 1, 843. 727 1, 851. 443 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. ‡ sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁) | 1, 843. 727 1, 851. 443 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. ‡ sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁) | 1, 843. 727 1, 851. 443 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. ‡ sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁) | 1, 843. 727 1, 851. 443 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. ‡ sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁) | 1, 843. 727 1, 851. 443 |
| Bryant, at northeast corner of Main Street and railway property, 142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest corner of apartment house belonging to S. Y. Hyde; 14 meters north of street on east-west line through center of SW. ‡ sec. 17, T. 113, R. 55, 4 centimeters east of west edge of stone, 10 centimeters north of south edge, 9 centimeters above ground; bottom of hole in horizontal surface (C. & G. S. b. m. K ₁) | 1, 843. 727 1, 851. 443 1, 829. 048 |

LAKE PRESTON QUADRANGLE.

[Latitude 44°-44° 30'; longitude 97°-97° 30'.]

From Erwin south along Chicago, Milwaukee & St. Paul Ry. to Madison.

| Erwin, 230 meters south of railway station, 130 meters north of south | |
|---|-------------|
| line of sec. 21, T. 112, R. 55, 16 meters west of railway, on south- | |
| east corner of pink sandstone foundation under Stone Elevator | |
| Co's. grain elevator; 4 centimeters north of south edge, 6 centi- | |
| meters west of east edge, 0.58 meter above ground; bottom of hole | |
| in horizontal surface (C. & G. S. b. m. N ₁) | |
| Erwin, 1.8 kilometers south of, 113 meters west of southeast corner | 2,002,000 |
| of sec. 28, T. 112, R. 55, 16 meters east of right-of-way line, 0.3 | |
| meter above rails; top of \(\frac{3}{3}\)-inch copper bolt in top of stone post | |
| (C. & G. S. b. m. O ₁) | 1 840 039 |
| Erwin, 3.5 kilometers south of, near northeast corner of lot 4, of NW. | 1,010.000 |
| 4 sec. 3, T. 111, R. 55, 12 meters west of railway, 10 meters south | |
| of highway, on north line of section, at level of rails; 3-inch red- | |
| metal cap on iron pipe (C. & G. S. b. m. P ₁) | 1 805 085 |
| Lake Preston, 2 kilometers north of, near center of lot 2, of E. ½ | 1,000.000 |
| sec. 35, T. 111, R. 55, 600 meters south of road on north line of | |
| section, 13 meters west of railway, 150 meters west of lake bank, | |
| 10 meters southwest of highway, 0.5 meter above rails; top of | |
| 3-inch copper bolt in top of stone post (C. & G. S. b. m. Q ₁) | 1 702 982 |
| Lake Preston, at southwest corner of Temple Block, owned by L. I. | 1, 102, 002 |
| Olston and O. D. Thorsnes, on east side of Main Street; in top | |
| bevel of smooth, cubical (pink sandstone) corner stone, on north- | |
| west corner of stone, next the brick work, 6 centimeters inside | |
| sidewalk line, 0.45 meter above sidewalk, 0.60 meter north of | |
| southwest corner of building; bottom of hole in horizontal surface | |
| (C. & G. S. b. m. R ₁) | 1 723 373 |
| Lake Preston, in doorsill (sandstone) at southwest entrance to | 1, 120.010 |
| city hall; 0.1 meter east of brickwork at west side of doorway; 4 | |
| centimeters above and 5 centimeters north of sidewalk; red-metal | |
| disk (C. & G. S. b. m. S ₁) | 1, 719, 301 |
| Lake Preston, on east side of Main Street, one block south of Chi- | -, |
| cago and North Western Ry., southwest corner of city park, 1 meter | |
| east and 2 meters north of sidewalk lines, on native granite | |
| rock 4 inches square, at level of ground, cross mark 18 millimeters | |
| northeast of center (C. & G. S. b. m. Preston) | 1, 719, 163 |
| Lake Preston, one kilometer south of, on north line of NE. 4 sec. | Marie Ber |
| 12, T. 110, R. 55; 12 meters east of Chicago, Milwaukee & St. | |
| Paul Ry., 10 meters south of highway, on right-of-way line, 2.5 | |
| meters south of highway line, 0.3 meter above rails; 3-inch red- | |
| metal cap on iron pipe (C. & G. S. b. m. T ₁) | 1, 716, 729 |
| Lake Preston, 6 kilometers south of, near center of north side of lot | and any |
| 6, on N. $\frac{1}{2}$ sec. 30, T. 110, R. 54; 12 meters west of railway, 10 | |
| meters north of highway, on right-of-way line, 0.5 meter below | |
| rails; 3-inch red-metal cap on iron pipe (C. & G. S. b. m. U1) | 1, 692, 388 |
| Lake Preston, 4.4 miles south of, in center of sec. 26, T. 110, R. 55, | 11000 |
| in southeast corner of schoolhouse yard, district No. 4, just west | |
| of land of H. H. Hansen, 3.04 meters from south and east school | |
| yard fences; nail in top of terra-cotta pipe (C. & G. S. b. m. | |
| Hansen Triangulation Station) | 1, 736. 093 |
| | |

| Lake Preston, 4.4 miles south of, 133.4 meters from Hansen tri- | |
|--|----------------|
| angulation station, and 68 meters west of center of section, at | |
| south road fence running east and west through center of section, | |
| at corner formed by partition fence running south; nail in top of | Feet. |
| terra-cotta pipe (Hansen Reference Mark) | |
| | 1, 120.010 |
| Lake Preston, 5 kilometers south of, between secs. 24 and 25, | |
| T. 110, R. 55; and secs. 19 and 30, T. 110, R. 24, in center of cross- | |
| roads; center of top of granite bowlder flush with ground (C. & | |
| G. S. b. m. Section Corner 3) | 1, 713. 218 |
| Oldham, 165 meters north of railway station, 18 meters west of | |
| railway, on gray-quartz bowlder forming foundation under north- | |
| east corner of Farmers' Elevator; 0.04 meter west of east edge, | Siring In II F |
| 0.35 meter south of corner, 0.2 meter above ground; square cut | |
| (C. & G. S. b. m. V ₁) | 1 720 508 |
| Oldham, on east end of south window sill (red sandstone) of First | 1, 120.000 |
| | |
| State Bank; 1 centimeter west and 2 centimeters south of brick- | |
| work at east side of window, at sidewalk line and 0.7 meter above | |
| it; surface within an outline square (C. & G. S. b. m. W) | 1, 726. 404 |
| Oldham, 2 kilometers south of, on south line of sec. 27, T. 109, R. 54, | 129 11 |
| 12 meters east of railway, 11 meters north of highway, on right-of- | |
| way line, 3 meters north of highway line, 0.2 meter below rails; top | |
| of 3-inch copper bolt in top of stone post (C. & G. S. b. m. X1) | 1, 728, 356 |
| Oldham, 5 kilometers south of, on east line of sec. 3, T. 108, R. 54; 12 | al. ford |
| meters south of railway, 10 meters west of highway, on right-of- | |
| way line, 2 meters west of highway line, at level of rails; 3-inch | |
| | 1 700 000 |
| red-metal cap on iron pipe (C. & G. S. b. m. Y ₁) | 1, 729. 800 |
| Ramona, on sandstone foundation of S. Y. Hyde elevator, 85 meters | |
| south of railway station, on fourth course above ground, at south- | |
| east corner; bottom of hole in horizontal surface (C. & G. S. | |
| b. m. Z ₁) | 1, 803. 130 |
| Ramona, 260 meters south of railway station, 15 meters north of | |
| quarter section road through sec. 32, T. 108, R. 53; 14 meters east | |
| of main track; on granite rock in situ, exposed 0.2 by 0.5 meter, | |
| 0.1 meter above ground; bottom of hole in horizontal surface (C. & | and the second |
| G. S. b. m. A ₂) | 1 800 452 |
| Ramona, 1.2 kilometers south of, 14 meters east of railway, 192 | 1, 000. 102 |
| | |
| meters east of southwest corner of sec. 33, T. 108, R. 53; 8 meters | |
| north of south line of that section, 2 meters north and 1 meter east | |
| of adjacent fences; top of \(\frac{3}{8} \)-inch copper bolt in top of stone post | |
| (C. & G. S. b. m. B ₂) | 1, 798. 218 |
| Ramona, 4.1 kilometers south of, 1,047 meters south of north line of | |
| sec. 9, T. 107, R. 53; 8 meters east of railway, 7 meters north of | |
| private road, 0.4 meter below rail; 3-inch red-metal cap on iron | |
| | 1, 777. 060 |
| Ramona, 8 kilometers south of, 270 meters 15° north of west of south- | The same |
| east corner of sec. 22, T. 107, R. 53, 101 meters north of south line | |
| of section, 14 meters west of railway; on small bowlder, 0.6 by 0.4 | |
| by 0.9 meters got flush with ground 1 meters east of force and 1.1 | |
| by 0.3 meter, set flush with ground, 1 meter east of fence and 1.1 | 1 |
| meters below rail; bottom of hole in horizontal surface (C. & G. S. | - |
| b. m. D ₂) | 1, 737. 661 |
| Ramona, 8 kilometers south of, between secs, 21, 22, 27, 28, T. 107, R. | |
| 53; on small bowlder; bottom of hole in horizontal surface (C. & | |
| G. S. b. m. Section Corner 4) | 1, 729. 101 |
| 29392°—Bull. 643—16——5 | |
| | |

| Ramona, 8 kilometers south of, between secs. 20, 21, 28, 29, T. 107, | |
|---|---------------|
| R. 53; on small bowlder; bottom of hole in horizontal surface | Feet. |
| (C. & G. S. b. m. Section Corner 5) | 1, 769. 018 |
| Ramona, 8 kilometers south of, between secs. 19, 20, 29, 30, T. 107, | |
| R. 53; on small bowlder; bottom of hole in horizontal surface | 7 |
| (C. & G. S. b. m. Section Corner 6) | 1, 796, 217 |
| Ramona, 8 kilometers south of, 14 meters 30° west of south from | Bir In . In . |
| northeast corner of sec. 25, T. 107, R. 54; 11 meters south and 9 | |
| meters west of road, 1.5 meters west of fence, on rock in situ, 0.3 | |
| by 0.1 meter, by 0.2 meter above ground; a square in relief | |
| (C. & G. S. b. m. E ₂) | 1 848 772 |
| Ramona, 8 kilometers south of, between secs. 23, 24, 25, 26, T. 107, R. | 1,010 |
| | |
| 54; on small bowlder; bottom of hole in horizontal surface (C. & | 1 000 500 |
| G. S. b. m. Section Corner 7) | 1, 852, 984 |
| Ramona, 8 kilometers south of, in southeast corner of sec. 21, T. 107, | |
| R. 54; at fence corner, 7 meters north and west of roads; nail in | 1 011 010 |
| top of terra cotta pipe (C. & G. S. b. m. Crane Reference Mark)_ | 1, 814. 819 |
| Ramona, 8 kilometers south of, near center of SE. 4 sec. 21, T. 107, | |
| R. 54, on land of George V. Crane; on north edge of dense growth | |
| of trees and bushes, 50 meters west of northeast corner of wood | |
| lot; nail in top of terra cotta pipe (C. & G. S. b. m. Crane Tri- | |
| angulation Station) | 1,855.026 |
| Madison, 3.3 kilometers northwest of, 13 meters east of railway, 8 | |
| meters east of road, on west line of SW. 4 sec. 1, T. 106, R. 53, | |
| 1 meter west of fence, 0.7 meter below rails; 3-inch red-metal cap | |
| on iron pipe (C. & G. S. b. m. F ₂) | 1, 733, 100 |
| Madison, 1.3 kilometers west of railway station, 17 meters north of | |
| north railway track, 8 meters west of street on east line of sec. 12, | |
| T. 106, R. 53, in east fence line 6 meters north of southeast corner | |
| of young grove owned by W. R. Walker; top of 3-inch copper bolt | |
| in top of stone post (C. & G. S. b. m. G ₂) | 1, 683. 809 |
| Madison, at northwest entrance to building occupied by Bank of | |
| South Dakota, on north end of fourth step, 0.07 meter east of front | |
| edge, 0.6 meter above sidewalk at north edge of stone; surface | |
| within an outlined square (C. & G. S. b. m. H ₂) | 1, 673. 343 |
| Madison, at southwest entrance to building occupied by Bank of | |
| South Dakota, on north end of first step, 0.1 meter above and west | |
| of sidewalk; surface within outlined square (C. & G. S. b. m. | |
| City 2) | 1,671.283 |
| Madison, on jasper foundation of Lake Park Hotel, at southeast | |
| corner, at level of sidewalk, on southwest line of basement window, | |
| 0.4 meter southeast of stonework; surface within outlined square | |
| (C. & G. S. b. m. City 3) | 1, 670, 564 |
| Madison, on northwest corner of Hundemer Block, Egan Avenue and | |
| Fourth Street, in upper bevel of sandstone cornerstone, next the | |
| brickwork, at extreme corner, 0.6 meter above sidewalk; triangular | |
| shelf (C. & G. S. b. m. I ₂) | 1, 676, 030 |
| Madison, 3.5 kilometers east of, 244 meters south of northwest corner | 200 |
| of sec. 10, T. 106, R. 52; 11 meters east of west line of section, | |
| 14 meters north of railway, in fence line, 4 meters east of corner; | |
| 3-inch red-metal cap on iron pipe (C. & G. S. b. m. J ₂) | 1, 710, 167 |
| | |

Madison, 5.5 kilometers east of, 11 meters north of railway, 339 meters east of road on west line of NW. 1 sec. 11, T. 106, R. 52, in red quartz rock, 0.4 by 0.4 meter, set at level of ground, 0.5 meter below rail; bottom of hole in horizontal surface (C. & G. S. b. m. K₂) ______ 1, 705. 341

SIOUX FALLS QUADRANGLE.

[Latitude 43° 30'-44°; longitude 96° 30'-97°.]

From Wentworth east along Chicago, Milwaukee & St. Paul Ry. to Egan and south to Sioux Falls.

| Wentworth, 440 meters west of railway station, 15 meters south |
|--|
| of railway, 4 meters west of east line of sec. 8, T. 106, R. 51, set 2 meters south of northeast corner and on east line of cultivated |
| field, 0.3 meter below rail, in bowlder 1.1 by 0.5 by 0.2 meter; |
| copper bolt (C. & G. S. b. m. L ₂)1, 694, 695 |
| Wentworth, on jasper foundation of Abraham & Schultz elevator, 178 |
| meters east of railway station, 13 meters west of street, on quarter- |
| section line, 24 meters south of main track, at northeast corner |
| of foundation, at level of ground; surface within outlined square |
| (C. & G. S. b. m. M_2) 1,693.002 Wentworth, 1.8 kilometers east of, 500 meters east of southwest |
| corner of sec. 10, T. 106, R. 51, 8 meters north of south line of |
| section, 13 meters north of railway, in pasture, 1 meter north of |
| fence at level of rails; 3-inch red-metal cap on iron pipe (C. & G. S. |
| b. m. N ₂)1, 679. 866 |
| Colman, on northwest corner of jasper foundation of Snyder's ele- |
| vator, 100 meters west of railway station, 14 meters south of main |
| track; on rough shelf, 0.7 meter above ground, 0.3 meter east of |
| northwest corner, 0.2 meter below woodwork; bottom of hole in |
| horizontal surface (C. & G. S. b. m. O ₂)1, 695, 617 Colman, 3 kilometers east of, 14 meters south of railway, 17 meters |
| north of road on south line of SE. 4 sec. 12, T. 106, R. 50; 0.8 |
| meter above rails; 3-inch red-metal cap on iron pipe (C. & G. S. |
| b. m. P ₂)1, 697, 657 |
| Colman, 4 kilometers east of, 17 meters south of railway, 4 meters |
| west of road on east line of SE. 4 sec. 12, T. 106, R. 50, 0.5 meter |
| west and 1.5 meters south of northeast corner of cultivated field, |
| in flint bowlder 1 by 0.4 by 0.2 meter, 0.6 meter above rails; |
| bottom of hole in horizontal surface (C. & G. S. b. m. Q ₂) 1,719.538 |
| Colman, 5 kilometers east of, 14 meters west of railway, 38 meters south of road, on north line of NE. 4 sec. 18, T. 106, R. 49, 27 |
| meters south of crossing, 0.4 meter below rails; 3-inch red-metal |
| cap on iron pipe (C. & G. S. b. m. R ₂)1, 681. 650 |
| Colman, 6 kilometers east of, 29 meters north of railway, 6 meters |
| east of road on west line of NW. 4 sec. 17, T. 106, R. 49, 0.5 meter |
| south of fence, 0.5 meter east of corner adjacent to cultivated |
| field owned by Geo. M. Smith, in bowlder 0.8 by 0.4 by 0.4 meter; |
| bottom of hole in horizontal surface (C. & G. S. b. m. S ₂) 1,659,190 |
| Egan, 5 kilometers southwest of, 348 meters north of road on south |
| line of SW. 4 sec. 23, T. 106, R. 49, 6 meters east of railway, on sandstone bowlder in situ 1.5 by 1.2 by 0.8 meters above ground; |
| bottom of hole in horizontal surface (C. & G. S. b. m. T ₂) 1,513.603 |
| bottom of hole in horizontal surface (C. & G. S. b. m. T ₂) 1,513.603 |

| Egan, 7 kilometers southwest of, 14 meters east of railway, 12 meters | 3 |
|--|-------------|
| south of road on north line of NE. 4 sec. 2, T. 105, R. 49; on north | 1 |
| line 1 meter east of corner of cultivated field owned by S. J | Feet. |
| Hively; 3-inch red-metal cap on iron pipe (C. & G. S. b. m. U2) | |
| Trent, 2.2 kilometers north of, between secs. 1, 2, 11, 12, T. 105, R. 49 | |
| on jasper post; bottom of hole in horizontal surface (C. & G. S | |
| b. m. Section corner 8) | 1, 502, 989 |
| Trent, in sandstone foundation of W. W. Cargill elevator, 120 | |
| meters south of railroad station, 18 meters west of main track | |
| at southeast corner, 0.4 meter above ground; bottom of hole in | |
| horizontal surface (C. & G. S. b. m. V ₂) | |
| Trent, 3.8 kilometers south of, 12 meters east of track, 9 meters south | |
| of road on north line of SE. 4 sec. 25, T. 105, R. 49, 610 meters | |
| south of railway bridge over Big Sioux River, at level of rails; | |
| 3-inch red-metal cap on iron pipe (C. & G. S. b. m. W ₂) | |
| Dell Rapids, in jasper foundation of First National Bank, at south- | |
| west side of entrance, 0.06 meter above sidewalk, 0.22 meter west | |
| of stonework, 0.03 meter northeast of southwest edge of stone, | |
| 0.05 meter southeast of northwest edge, 2 meters southwest and 1 meter below center of main doorway; a square in relief (C. & | |
| G. S. b. m. X ₂) | |
| Dell Rapids, cast in front doorsill of First National Bank, lower | 1, 490, 919 |
| bar of letter L in word National; center (C. & G. S. b. m. | |
| City 1) | 1 500 043 |
| Dell Rapids, at west side of main doorway to M. A. Dieson Building, | 1, 500. 015 |
| 1.35 meters west of center of doorway, 0.5 meter south of, and | |
| 0.08 meter above sidewalk, being the most northwesterly piece of | |
| that size and color in the pattern; an orange square tile, 0.03 | |
| by 0.03 meter (C. & G. S. b. m. Y ₂) | 1, 498, 442 |
| Dell Rapids, cast in iron sill of west doorway to Union Block, in | |
| word Foundry; center of stem of letter R (C. & G. S. b. m. City 2)_ | 1, 499, 033 |
| Dell Rapids, on southeast corner of jasper foundation of McCaull- | |
| Webster elevator, 7 meters north of main railway track, 11 meters | |
| west of street, 0.8 meter above ground; surface within outlined | |
| square (C. & G. S. b. m. Z ₂) | 1, 488. 488 |
| Dell Rapids, 1.5 kilometers west of, on south pier (sandstone) of | |
| railroad bridge over Big Sioux River, 0.47 meter south of north | |
| face of pier, 0.12 meter east of west face, 1.9 meters west of track, | |
| 1.1 meters below rails; bottom of hole in horizontal surface (C. & | 4 404 004 |
| G. S. b. m. A ₃) | 1, 491. 684 |
| Dell Rapids, 3 kilometers southwest of, 15 meters west of railway, 7 meters north of road on south line of sec. 17, T. 104, R. 49, | |
| 1 meter north and 0.5 meter east of fences, 0.7 meter below rail; | |
| 3-inch red-metal cap on iron pipe (C. & G. S. b. m. B ₃) | 1 476 909 |
| Dell Rapids, 4.5 kilometers south of, between secs. 20, 21, 28, and | 1, 410. 200 |
| 29, T. 104, R. 49, in small bowlder; bottom of hole in horizontal | |
| surface (C. & G. S. b. m. Section Corner 9) | 1, 473, 180 |
| Baltic, 500 meters south of railway station, on northwest corner | _, _, _, _, |
| of jasper foundation of most southerly elevator, 6 meters east of | |
| main track, on second course below woodwork, 0.7 meter south of | |
| north edge, 0.45 meter above ground; bottom of hole in horizontal | |
| surface (C. & G. S. b. m. C ₃) | 1, 472. 989 |
| Baltic, 1.5 kilometers south of, 12 meters north of road, on south line | |
| of sec. 5, T. 103, R. 49, 14 meters east of railway, 2 meters north | |

| of corner, in west line of cultivated field owned by John Langness, | |
|--|--|
| 0.6 meter below rails; 3-inch red-metal cap on iron pipe (C. & | Feet. |
| G. S. b. m. D ₃) | |
| Baltic, 3 kilometers south of, on lines of secs. 8 and 17, T. 103, R. | 1, 100, 000 |
| | |
| 49, 33 meters west of railway, 7 meters south of road, on north | |
| line of cultivated field owned by John Vollan, 2 meters west of | |
| corner, 0.7 meter below rails; 3-inch red-metal cap on iron pipe | |
| (C. & G. S. b. m. E ₃) | 1, 453. 537 |
| Baltic, 4 kilometers south of, 31 meters southwest of railway, on | |
| jasper rock set in center of crossroads, 0.9 meter below rails; bot- | |
| tom of hole in horizontal surface (C. & G. S. b. m. F ₈) | 1, 451, 263 |
| Renner, in jasper foundation, at southwest corner of Petersen ele- | BAT LOLL |
| vator, 6 centimeters north and 3 centimeters east of corner, 9 centi- | |
| | |
| meters above ground; bottom of hole in horizontal surface (C. & | 1 497 405 |
| G. S. b. m. G ₃) | 1, 437. 405 |
| Renner, on south line of sec. 9, T. 102, R. 49, 21 meters east of rail- | |
| way, 14 meters north of road, on jasper rock set 3 meters east and | |
| 4 meters north of southwest corner of lot owned by L. Renner, | |
| 0.7 meter below rails; bottom of hole in horizontal surface (C. & G. | |
| S. b. m. H ₃) | 1, 435, 558 |
| Sioux Falls, 4 kilometers south of, 5 meters south of road on north | Hardly was |
| line of sec. 4, T. 101, R. 49, 23 meters east of railway, on north | |
| line of cultivated field, 8 meters east of corner, 0.5 meter below | |
| | 1 400 455 |
| rails; 3-inch red-metal cap on iron pipe (C. & G. S. b. m. Ia) | 1, 423, 455 |
| Sioux Falls, 2.3 kilometers north of, 6 meters north of road on south | |
| line of sec. 5, T. 101, R. 49, 13 meters west of railway, at south- | |
| | |
| east corner of cultivated field, 0.4 meter below rails; 3-inch red- | |
| | 1, 421. 087 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) | 1, 421. 087 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone | 1, 421. 087 |
| metal cap on iron pipe (C. & G. S. b. m. J ₂) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. | |
| metal cap on iron pipe (C. & G. S. b. m. J ₂) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) | |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) | |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. | 1, 397. 038 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) | 1, 397. 038 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; | 1, 397. 038 1, 402. 097 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) | 1, 397. 038 1, 402. 097 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; | 1, 397. 038 1, 402. 097 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) | 1, 397. 038 1, 402. 097 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east | 1, 397. 038 1, 402. 097 1, 411. 611 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) | 1, 397. 038 1, 402. 097 1, 411. 611 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by | 1, 397. 038 1, 402. 097 1, 411. 611 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier | 1, 397. 038 1, 402. 097 1, 411. 611 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier X U. S. Geol. Survey; a point 25 millimeters northeast of center | 1, 397. 038 1, 402. 097 1, 411. 611 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier X U. S. Geol. Survey; a point 25 millimeters northeast of center of cross (C. & G. S. b. m. U. S. G. S. astronomic station, probably | 1, 397. 038 1, 402. 097 1, 411. 611 1, 401. 211 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier X U. S. Geol. Survey; a point 25 millimeters northeast of center of cross (C. & G. S. b. m. U. S. G. S. astronomic station, probably destroyed) | 1, 397. 038 1, 402. 097 1, 411. 611 1, 401. 211 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier X U. S. Geol. Survey; a point 25 millimeters northeast of center of cross (C. & G. S. b. m. U. S. G. S. astronomic station, probably destroyed) Sioux Falls, in eastern entrance of Cataract Hotel, 0.95 meter north | 1, 397. 038 1, 402. 097 1, 411. 611 1, 401. 211 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier X U. S. Geol. Survey; a point 25 millimeters northeast of center of cross (C. & G. S. b. m. U. S. G. S. astronomic station, probably destroyed) Sioux Falls, in eastern entrance of Cataract Hotel, 0.95 meter north of brick wall, 0.5 meter west of front edge of top step, 1.2 meters | 1, 397. 038 1, 402. 097 1, 411. 611 1, 401. 211 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier X U. S. Geol. Survey; a point 25 millimeters northeast of center of cross (C. & G. S. b. m. U. S. G. S. astronomic station, probably destroyed) Sioux Falls, in eastern entrance of Cataract Hotel, 0.95 meter north | 1, 397. 038 1, 402. 097 1, 411. 611 1, 401. 211 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier X U. S. Geol. Survey; a point 25 millimeters northeast of center of cross (C. & G. S. b. m. U. S. G. S. astronomic station, probably destroyed) Sioux Falls, in eastern entrance of Cataract Hotel, 0.95 meter north of brick wall, 0.5 meter west of front edge of top step, 1.2 meters above sidewalk; center of most southeasterly of 3-inch round dead- | 1, 397. 038 1, 402. 097 1, 411. 611 1, 401. 211 1, 424. 922 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier X U. S. Geol. Survey; a point 25 millimeters northeast of center of cross (C. & G. S. b. m. U. S. G. S. astronomic station, probably destroyed) Sioux Falls, in eastern entrance of Cataract Hotel, 0.95 meter north of brick wall, 0.5 meter west of front edge of top step, 1.2 meters above sidewalk; center of most southeasterly of 3-inch round deadlights (C. & G. S. b. m. L ₃) | 1, 397. 038 1, 402. 097 1, 411. 611 1, 401. 211 1, 424. 922 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier X U. S. Geol. Survey; a point 25 millimeters northeast of center of cross (C. & G. S. b. m. U. S. G. S. astronomic station, probably destroyed) Sioux Falls, in eastern entrance of Cataract Hotel, 0.95 meter north of brick wall, 0.5 meter west of front edge of top step, 1.2 meters above sidewalk; center of most southeasterly of 3-inch round deadlights (C. & G. S. b. m. L ₃) Sioux Falls, on north pier (granite) of Chicago, St. Paul, Minneapolis | 1, 397. 038 1, 402. 097 1, 411. 611 1, 401. 211 1, 424. 922 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier X U. S. Geol. Survey; a point 25 millimeters northeast of center of cross (C. & G. S. b. m. U. S. G. S. astronomic station, probably destroyed) Sioux Falls, in eastern entrance of Cataract Hotel, 0.95 meter north of brick wall, 0.5 meter west of front edge of top step, 1.2 meters above sidewalk; center of most southeasterly of 3-inch round deadlights (C. & G. S. b. m. L ₃) Sioux Falls, on north pier (granite) of Chicago, St. Paul, Minneapolis & Omaha Ry, bridge over Big Sioux River, 12 centimeters east of | 1, 397. 038 1, 402. 097 1, 411. 611 1, 401. 211 1, 424. 922 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier X U. S. Geol. Survey; a point 25 millimeters northeast of center of cross (C. & G. S. b. m. U. S. G. S. astronomic station, probably destroyed) Sioux Falls, in eastern entrance of Cataract Hotel, 0.95 meter north of brick wall, 0.5 meter west of front edge of top step, 1.2 meters above sidewalk; center of most southeasterly of 3-inch round deadlights (C. & G. S. b. m. L ₃) Sioux Falls, on north pier (granite) of Chicago, St. Paul, Minneapolis & Omaha Ry. bridge over Big Sioux River, 12 centimeters east of west edge of capstone, 9 centimeters south of north edge, 1.2 | 1, 397. 038 1, 402. 097 1, 411. 611 1, 401. 211 1, 424. 922 |
| metal cap on iron pipe (C. & G. S. b. m. J ₃) Sioux Falls, on southeast corner of jail, on upper bevel of sandstone cornerstone, at extreme corner; a triangular shelf (C. & G. S. b. m. City 1) Sioux Falls, cast in sill of northwest doorway of Van Eps (1892) Building; on cross of letter x in word Sioux (C. & G. S. b. m. City 2) Sioux Falls, cast in sill of northeast doorway of Masonic Temple; center of first letter N in word Union (C. & G. S. b. m. City 3) Sioux Falls, on iron sill of northwest doorway of Van Eps (1882) Building, 0.75 meter south of north end of sill and 0.05 meter east of front edge; point unmarked (C. & G. S. b. m. City 4) Sioux Falls, in east lawn of Federal Building, on brick pier 18 by 18 by 36 inches with a sandstone cap, lettered Astronomical Pier X U. S. Geol. Survey; a point 25 millimeters northeast of center of cross (C. & G. S. b. m. U. S. G. S. astronomic station, probably destroyed) Sioux Falls, in eastern entrance of Cataract Hotel, 0.95 meter north of brick wall, 0.5 meter west of front edge of top step, 1.2 meters above sidewalk; center of most southeasterly of 3-inch round deadlights (C. & G. S. b. m. L ₃) Sioux Falls, on north pier (granite) of Chicago, St. Paul, Minneapolis & Omaha Ry, bridge over Big Sioux River, 12 centimeters east of | 1, 397. 038 1, 402. 097 1, 411. 611 1, 401. 211 1, 424. 922 1, 405. 703 |

CANTON QUADRANGLE.

[Latitude 43°-43° 30'; longitude 96° 30'-97°.]

| The control of the co | A1 | 3011 1 0 01 5 1 5 1 6 1 |
|--|----|-------------------------------------|
| | | Milwaukee & St. Paul Ry. to Canton. |
| | | |

| From Sioux Falls south along Chicago, Milwaukee & St. Paul Ry. to Canton. | |
|---|-------------|
| Harrisburg, 6.5 kilometers north of, 33 meters south of road on | |
| north line of sec. 13, T. 100, R. 50; 15 meters east of railway, 1 | |
| meter below rail; top of 3-inch copper bolt in stone post (C. & | Feet. |
| G. S. b. m. M ₃) | 1, 478, 307 |
| Harrisburg, 7.5 kilometers north of, northwest corner of sec. 7, T. | |
| 100 N., R. 49 W.; 3½-inch cap on iron pipe (U. S. G. S. b. m. | |
| 1484 Ynktn) | 1, 483. 566 |
| Harrisburg, 0.8 kilometer east of, northwest corner sec. 6, T. 99 N., | |
| R. 49 W.; 3½-inch cap on iron pipe (U. S. G. S. b. m. 1419 Ynktn) | 1, 418. 744 |
| Harrisburg, 5 kilometers north of, 11 meters north of road on south | |
| line of sec. 13, T. 100, R. 50, 19 meters west of railway, 1 meter | |
| below rails; top of \(^3_8\)-inch copper bolt in stone post (C. & G. S. | |
| b. m. N ₃) | 1, 449. 006 |
| Harrisburg, 30 meters east of railway, 8 meters north of road on | |
| south line of T. 100 N., on south line of cultivated field, owned | |
| by Ole Sorensen, 15 meters east of corner, 0.2 meter above rails; | |
| top of \(\frac{3}{5}\)-inch copper bolt in stone post (C. & G. S. b. m. O ₃) | 1, 428. 684 |
| Harrisburg, 1.6 kilometers south of, 11 meters south of road on north | |
| line of sec. 12, T. 99, R. 50, 16 meters west of railway, in north- | |
| east corner of pasture owned by W. W. Wasem; 3-inch red-metal cap on iron pipe (C. & G. S. b. m. P ₃) | 1 900 150 |
| Harrisburg, 5 kilometers southeast of, 17 meters northeast of track, | 1, 586. 152 |
| 12 meters west of road on east line of sec. 18, T. 99, R. 49, in | COLON LAND |
| southeast corner of pasture owned by F. P. Robinson, 0.6 meter | |
| below rails; top of \(\frac{3}{3}\)-inch copper bolt in stone post (C. & G. S. | 1 |
| b. m. Q ₈) | 1 391 637 |
| Canton, 4 kilometers north of, 9 meters south of road on north line | , 001. 00. |
| of sec. 11, T. 98, R. 49, 13 meters west of railway, 3 meters | |
| south and 1 meter east of adjacent fences, 0.6 meter below rails; | |
| 3-inch red-metal cap on iron pipe (C. & G. S. b. m. R ₃) | 1, 340. 007 |
| Canton, at south entrance to county court-house, on west wall | |
| of steps, at west edge of red sandstone block and 0.4 meter north | |
| of south edge, 1 meter above ground, 0.26 meter above third step; | |
| surface within outlined square (C. & G. S. b. m. S ₃)1 | 1, 273. 186 |
| Canton, on jasper sill in northwest doorway of building occupied | |
| by Bank of Lincoln County, 0.17 meter south of north side of arch- | |
| way, 0.26 meter east of front edge, 0.17 meter above sidewalk; | |
| bottom of hole in horizontal surface (C. & G. S. b. m. T ₃)1 | 1, 268. 170 |
| | |

HUDSON QUADRANGLE.

[Latitude 43°-43° 15'; longitude 96° 15'-96° 30'.]

From Fairview south to Hudson.

| Fairview, on jasper foundation at southeast corner of most southerly |
|--|
| grain elevator, 14 meters southwest of southwest corner of railway |
| station, 8 centimeters above ground, 4 centimeters west and north |
| of corner of stone; bottom of hole in horizontal surface (C. & G. S. |
| b. m. U _e)1, 214, 151 |

| Fairview, 0.8 kilometer south of, 14 meters east of railway, 4 meters | |
|--|--|
| north of road, 1.4 meters below rails, 1 meter west of fence; 3-inch | Feet. |
| red-metal cap on iron pipe (C. & G. S. b. m. V ₂) | 1, 208, 318 |
| Fairview, 1.5 kilometers south of, 12 meters west of main railway | |
| track and 33 meters east of siding, 3 meters north of road, 45 | |
| meters east of road along track, at level of rails; top of 3-inch | |
| copper bolt in stone post (C. & G. S. b. m. W ₃) | 1 211 655 |
| Fairview, 2.3 kilometers south of, 15 meters east of railway, 14 | 1, 211, 000 |
| Fairview, 2.3 knowleters south of, 15 meters east of fairway, 14 | |
| meters south of road; 1.5 meters below rails, 1 meter east, 8 meters | |
| south of northwest corner of cultivated field; top of 3-inch copper | 1 005 044 |
| bolt in stone post (C. & G. S. b. m. X ₂) | 1, 205. 044 |
| Hudson, in west side of entrance to Johnson & Torkelson's store, 1.3 | |
| meters west of center of doorway, 0.3 meter above sidewalk; 0.4 | |
| meter south of front edge of sill, set square with pattern, most | |
| northwesterly piece of that size and color in pattern; square yel- | |
| low tile 75 millimeters on a side (C. & G. S. b. m. Y ₃) | 1, 222. 911 |
| Hudson, 70 meters south of railway station, 17 meters west of track, | |
| on southeast corner of jasper foundation of north elevator, 7 centi- | |
| meters north and 2 centimeters west of edges of stone, 0.45 meter | |
| above ground; bottom of hole in horizontal surface (C. & G. S. | 9 4 711 - |
| b. m. \hat{Z}_3) | 1, 221, 546 |
| Hudson, 1 kilometer south of, 14 meters east of railway, 11 meters | STATE OF THE PARTY |
| west of road; 15 meters south of crossing, 1 meter west of fence, | |
| 2 meters south of corner of pasture, 0.4 meter below rails; top of | |
| 3-inch copper bolt in stone post (C. & G. S. b. m. A ₄) | 1 919 557 |
| 8-inch copper bott in stone post (C. & G. S. D. in. A4) | 1, 212. 001 |
| Hudson, 5 kilometers south of, 15 meters west of railway, 234 meters | |
| north of crossroads, 200 meters north of schoolhouse, 11 meters east | |
| of road, 2 meters north and 1 meter east of southwest corner of | |
| pasture owned by M. Allen; 3-inch red-metal cap on iron pipe | 1 100 015 |
| (C. & G. S. b. m. B ₁) | 1, 199. 217 |
| | |
| ELK POINT QUADRANGLE. | |
| [Latitude 42° 30'-43°; longitude 96° 30'-97°.] | |
| [Latitude 42 55 -45], longitude 55 55 51. | |
| From Elk Point south along Chicago, Milwaukee & St. Paul Ry. to Jefferson. | |
| Elk Point, 1.0 kilometer northeast of, 1,041 meters by rail from | |
| | |
| main line of railway at junction, 13 meters northwest of railway, | |
| 17 meters west of section line, 1 meter southeast of fence, 0.6 meter | |
| below rails; top of 3-inch copper bolt in stone post (C. & G. S. | 1 101 107 |
| b. m. C ₄) | 1, 121, 497 |
| Elk Point, in southeast corner of courthouse yard; copper bolt in | 1 100 110 |
| bench-mark stone (U.S.C.E. b.m. P.B.M. 353-3) | 1, 123, 112 |
| Elk Point, 1 kilometer south of, 105 meters west of railway, at north | |
| corner of roads, 1 meter west and 1 meter north of fences, 0.2 meter | The second second |
| below rails; top of 3-inch copper bolt in stone post (C. & G. S | |
| b. m. D ₄) | 1, 125. 956 |
| The Daint 22 bilometers south of 18 meters northeast of railway, at | |

Elk Point, 3.2 kilometers south of, 18 meters northeast of railway, at northeast corner of crossroads, 1 meter north and east of southwest corner of cultivated field, 0.6 meter below rails; 3-inch red-

metal cap on iron pipe (C. & G. S. b. m. E4)______ 1, 121, 838

| Elk Point, 7.5 kilometers south of, 15 meters southwest of railway, 8 | |
|---|------|
| meters north of road; 1 meter north and west of southeast corner | |
| of cultivated field, 0.4 meter below rails; 3-inch red-metal cap on Feet | |
| iron pipe (C. & G. S. b. m. F ₄)1, 115. | 752 |
| Jefferson, 800 meters north of station, 15 meters southwest of rail- | |
| way, 5 meters north of road, 1 meter west and 0.5 meter south | |
| of southeast corner of garden, 0.7 meter below rails; top of \$\frac{3}{8}\$-inch | |
| copper bolt in stone post (C. & G. S. b. m. G ₄) 1, 112. | 866 |
| Jefferson, in northwest corner of schoolhouse yard, at northeast | |
| sidewalk line; copper bolt in bench-mark stone (U.S.C.E. b.m. | 1111 |
| P.B.M. 358-3) 1, 109. | 180 |
| Jefferson, at front entrance to Fontaine Block, 0.45 meter northeast | 1 |
| of front edge of sill, 0.75 meter southeast of center of doorway, | |
| 0.14 meter west of south wood framing, 0.10 meter above side- | |
| walk, most southerly such piece in design; blue triangle of tiling, | |
| 5 by 3.5 centimeters (C. & G. S. b. m. H ₄) 1, 115. | 408 |
| Jefferson, 400 meters south of station, 13 meters north of railway, | |
| 5 meters west of private road, 1 meter south of south fence of | |
| meadow, 0.8 meter below rails; top of 3-inch copper bolt in stone | |
| (C. & G. S. b. m. I ₄) 1, 114. | 414 |
| Jefferson, 1.6 kilometers southeast of, 13 meters southwest of railway, | |
| 11 meters south of road, 1 meter southeast and 0.5 meter northeast | |
| of northeast corner of cultivated field, at level of rails; 3-inch red- | |
| metal cap on iron pipe (C. & G. S. b. m. J ₄) 1, 113. | 318 |
| | |

JAMES QUADRANGLE.

[Latitude 42° 30'-42° 45'; longitude 96° 15'-96° 30'.]

Near McCook.

| Jefferson, 3.6 kilometers southeast of, 13 meters southwest of rail- | |
|---|--------|
| way, 12 meters east of road, 18 meters southeast of crossing, 2 | |
| meters southeast and 0.5 meter northeast of northwest corner of | |
| cultivated field, at level of rails; 3-inch red-metal cap on iron pipe | |
| (C. & G. S. b. m. K ₄)1, 11 | 0.306 |
| McCook, 450 meters north of station, 15 meters northeast of railway, | |
| 11 meters east of road, opposite crossing, 1 meter south and 0.5 | |
| meter east of northwest corner of cultivated field, 0.3 meter below | |
| rails; top of 3-inch copper bolt in stone post (C. & G. S. b. m. L ₄) 1, 10 | 7. 389 |
| McCook, 0.7 kilometer south of, 30 meters southwest of railway, 12 | |
| meters southwest of road along track, 5 meters southeast of private | 161 |
| road, 1 meter northeast of fence, 0.4 meter below rails; top of \(\frac{3}{8} \)-inch | |
| copper bolt in stone post (C. & G. S. b. m. M ₄) 1, 10 | 7. 248 |
| McCook, 2.7 kilometers south of, on west bank of Big Sioux River, 16 | |
| meters from edge, 15 meters south of railway, in wood lot, 1 meter | |
| south of fence, 1.2 meters below rails; 3-inch red-metal cap on iron | |
| pipe (C. & G. S. b. m. N ₄) | 2.734 |
| McCook, 400 feet south of station, 130 feet southwest of schoolhouse, | |
| in south road fence; copper bolt in bench-mark stone (U. S. C. E. | |
| p. b, m. 360-2) 1, 10 | 5.074 |
| | |

EDGEMONT QUADRANGLE.

[Latitude 43°-43° 30'; longitude 103° 30'-104°.]

| From | Ardmore | northwest | along | Chicago, | Burlington | & | Quincy | R. | R. to | South |
|------|---------|-----------|--------|----------|---------------|---|--------|----|-------|-------|
| | | 3 | Dakota | -Wyomin | g State line. | | | | | |

| Datota-wyoming State line. | |
|--|-------------|
| Ardmore, about 1.5 miles south of, 277 meters west of center of main | |
| track of railroad, in center of highway, on top of State line monu- | |
| ment, red granite post 1 foot square and projecting 4 feet above | |
| ground lettered "N" on south face, "SD." on north face, and | |
| "204.17" on east face; top surface of 1-inch raised square (C. & | Feet. |
| G. S. b. m. N. S. D. 204 M) | 3, 574, 504 |
| Ardmore, 10 meters west of center line of main track of railroad, on | |
| south end of one of concrete supports of water-tank column; | |
| copper bolt (C. & G. S. b. m. O ₄) | |
| Ardmore, 154.5 meters west of center line of main track of railroad, | |
| 195 meters northwest of temporary railroad station, 19 meters north | |
| of center of east-west road; 3½-inch cap on iron pipe (C. & G. S. | |
| b. m. 3553 DW) | |
| Ardmore, about 2.3 miles north of, 164 meters west of center line of | |
| main track of railroad, about 400 meters north of bridge 452.14 over | |
| Hat Creek, 11.6 meters east of center of highway at turn in | 9 700 107 |
| road; 3½-inch cap on iron pipe (C. & G. S. b. m. 3527 DW) | 3, 529, 127 |
| Rumford, about 3 miles southeast of, 202 meters west of center line of | |
| main track of railroad, about 130 meters south of bridge 455.39 over Duck Creek, 11 meters east of center line of north-south highway; | |
| 3½-inch cap on iron pipe (C. & G. S. b. m. 3487 DW) | 9 400 949 |
| Rumford, 21.6 meters southwest of center line of main track of rail- | 5, 405. 242 |
| road, 240 meters southeast of station signboard, 150 meters north- | |
| west of southeast end of siding; $3\frac{1}{2}$ -inch cap on iron pipe (C. & G. S. | |
| b, m, 3500 DW) | 3 502 227 |
| Rumford, about 2.3 miles northwest of, a short distance northwest | 0,002.221 |
| of milepole 461, 23.1 meters southwest of center line of main track | |
| of railroad; 3½-inch cap on iron pipe (C. & G. S. b. m. 3532 DW) | 3, 534, 320 |
| Provo, about 3.2 miles east of, about \(\frac{1}{3} \) mile east of milepole 464, 16 | 0,001.020 |
| meters north of center line of main track of railroad; 3½-inch cap | |
| on iron pipe (C. & G. S. b. m. 3632 DW) | 3, 634, 268 |
| Provo, 16.3 meters northeast of center line of main track of rail- | |
| road, 190 meters southeast of railroad station; 3½-inch cap on iron | |
| pipe (C. & G. S. b. m. 3708 DW) | 3, 710. 406 |
| Provo, about 2.6 miles northwest of, about halfway between mile- | |
| poles 469 and 470, 24.2 meters northeast of center line of main | |
| track of railroad; 3-inch red-metal cap on iron pipe (C. & G. S. | |
| b. m. P ₄) | 3, 619. 497 |
| Dennis, about 1.5 miles southeast of, on east end of north concrete | |
| abutment of plate-girder bridge over Coal Creek, 2.2 meters east | |
| of center line of main track of railroad; copper bolt (C. & G. S. | |
| b. m. Q ₄) | 3, 580. 042 |
| Dennis, about 0.7 mile northeast of center line of main track of rail- | |
| road, 23 meters northwest of bank of Cottonwood Creek; 3½-inch | - |
| cap on iron pipe (C. & G. S. b. m. 3528 DW) | 3, 530. 321 |
| Edgemont, about 1.7 miles southwest of, 220 meters west of signboard | |
| "Yard Limit," 4.5 meters north of center line of main track of | |
| railroad, on lowest stone at north end of east abutment of small | |
| stone bridge; bottom of hole in horizontal surface (C. & G. S. | 2 405 005 |
| b. m, R ₄) | 5, 495. 925 |

| Edgemont, 113.5 meters west of center line of main track of railroad, | |
|---|--------------|
| in southwest corner of city park, near public-school building, | |
| 0.5 meter from south fence and 0.7 meter from west fence; 3-inch | Feet. |
| red-metal cap on iron pipe (C. & G. S. b. m. S ₄) | 3, 454, 911 |
| Edgemont, on northeast corner of store building known as Edgemont | |
| Block, 0.2 meter above sidewalk, 0.2 meter from northeast corner, | |
| facing Phelan Avenue; red-metal disk (C. & G. S. b. m. T ₄) | 3, 455. 777 |
| Edgemont, 15.7 meters west of center line of main track of railroad, | |
| at north end of railroad hotel park; 3½-inch cap on iron pipe (C. & | |
| G. S. b. m. 3449 DW) | 3, 451. 404 |
| Edgemont, 650 meters north of railroad station, on west end of south | |
| concrete abutment of plate-girder bridge over south fork of Chey- | |
| enne River; red-metal disk (C. & G. S. b. m. U ₄) | 3, 439. 757 |
| Edgemont, about 4 miles northwest of, 120 meters southeast of pile- | |
| trestle bridge No. 480-48, 31 meters southwest of center line of | |
| main track of railroad, just outside of right of way; 3½-inch cap on | |
| iron pipe (C. & G. S. b. m. 3463 DW) | 3, 465. 354 |
| Marietta, directly opposite section house at northwest end of siding, | |
| 85 meters southeast of bridge No. 484–36, 23.4 meters southwest of | |
| center line of main track of railroad; 3½-inch cap on iron pipe (C. | |
| & G. S. b. m. 3486 DW) | 3,488. 297 |
| Marietta, 2.7 miles northwest of, 100 meters southeast of trestle | |
| No. 487-10, 30 meters southwest of main track of railroad; | |
| \$\frac{1}{2}\$-inch cap on iron pipe (C. & G. S. b. m. 3544 DW) | 3, 546. 453 |
| Argentine, 50 meters southeast of north water tank (measured along | |
| track), 29.5 meters southwest of center line of main track of rail- | |
| road, 10 meters northeast of center of highway; 3½-inch cap on iron | |
| pipe (C. & G. S. b. m. 3632 DW) | 3, 634, 366 |
| Argentine, at north end of siding, on east end of south concrete abut- | |
| ment of plate-girder bridge No. 490-44 over Pass Creek, 2.2 meters | |
| east of center line of main track of railroad; copper bolt (C. & G. | |
| S. b. m. V ₄) | 3, 622. 319 |
| Dewey, 2 miles southeast of, about halfway between milepoles 493 | |
| and 494, 33 meters southeast of center line of main track of rail- | |
| road, on tangent between first and second curves south of Dewey; | |
| 3-inch red-metal cap on iron pipe (C. & G. S. b. m. W4) | 3, 688. 844 |
| Dewey, 0.8 mile southeast of, 2.5 meters east of center line of main | |
| track of railroad, on east end of north concrete abutment of bridge | State of the |
| No. 495-00; copper bolt (C. & G. S. b. m. X ₄) | 3, 694. 868 |
| Dewey, 0.8 mile southeast of, 2.5 meters east of center line of main | |
| track of railroad, directly opposite old water tank, 22 meters west | |
| of Matteson's general store; 3½-inch cap on iron pipe (C. & G. S. | |
| b. m. 3704 DW) | 3, 705. 734 |
| Dewey, 2 miles north of, 40 meters west of center line of main track | |
| of railroad, at foot of Wyoming Hill; top of State line monument, | |
| a yellow sandstone post 10 inches square, projecting 1 meter above | |
| ground, lettered "S. D." on east face, "Y" on west face, "38.24 M" | |
| on south face, and "1904" on north face; bottom of hole in hori- | The Property |
| zontal surface (C. & G. S. b. m. S. DWy. 38.24) | 3, 746. 439 |
| | |

APPENDIX B.

ELEVATIONS FROM BENCH MARKS ESTABLISHED BY THE MISSOURI RIVER COMMISSION.

PRIMARY LEVELING.

Degrey, Elk Point, Fort Bennett, Glenham, Herrick, Lake Andes, Le Beau, Niobrara, Oacoma, Okojobo, Pierre, Stephan, Tyndall, Van Metre, and Yankton quadrangles.

ARMSTRONG, BON HOMME, BRULE, BUFFALO, CAMPBELL, CHARLES MIX, CLAY, CORSON, DEWEY, GREGORY, HUGHES, HYDE, LYMAN, POTTER, STANLEY, SULLY, UNION, WALWORTH, AND YANKTON COUNTIES.

The following descriptions and elevations of bench marks along the Missouri River are taken from the report of the Chief of Engineers for 1893, part 3, pages 2307 to 2313, and the report for 1894, part 3, pages 1765 to 1769. These data are republished by permission of the Chief of Engineers, United States Army. The elevations have been corrected to agree with the 1912 adjustment of the United States Coast and Geodetic Survey from corrections made near Elk Point. Orthometric corrections have also been applied from Elk Point northward to the North Dakota-South Dakota State line.

The bench marks were established by a duplicate line of primary levels run down the valley of the Missouri over the entire distance from Fort Benton, Mont., to Sioux City, Iowa. Permanent bench marks were established at intervals of from 3 to 5 miles by the primary party; they consist generally, unless otherwise noted, of a stone 18 by 18 by 4 inches, buried flatwise from 3 to $3\frac{3}{4}$ feet below the surface of the ground, surmounted by a 5-inch gas pipe 4 to $4\frac{1}{2}$ feet long to the top of its cap. A hole one-half inch in diameter at the middle of the top and dressed surface of the stone marks the level point on that surface; around the hole the letters U. S. B. M. are cut in the stone.

GLENHAM QUADRANGLE.

[Latitude 45° 30'-46°; longitude 100°-100° 30'.]

From point 9 miles below Winona southerly along Missouri River to point near mouth of Grand River.

pipe (Mo. R. Comm. b. m. 207-3)_____

Winona, 9 miles below, on left bank, 1 mile from river, road along foot of bluffs, 980 feet from schoolhouse on plateau below; surface feet. of stone under iron pipe (Mo. R. Comm. b. m. 207—2) 1, 639. 64 Winona, 9 miles below, 1 mile back of 207—2, just back is a round-topped knoll, 1,200 feet south is a shack near creek, northeast corner of fence is about 800 feet south; surface of stone under iron

_ 1,696.06

| Vanderbilt, directly back of Andrew Marsh's store, 600 feet from river at point where bottom begins, on left bank; surface of stone under iron pipe (Mo. R. Comm. b. m. 208—2) | Feet. 1, 631. 78 |
|---|---------------------|
| in side of fence, at northwest corner of cultivated field; surface of stone under iron pipe (Mo. R. Comm. b. m. 208—3)La Grace, 0.25 mile from, 0.5 mile from river, on left bank, between | 1, 653. 81 |
| La Grace and river on low bench land, about 100 feet from edge of bottom, 150 feet below where road turns out of bottom toward La Grace; surface of stone under iron pipe (Mo. R. Comm. b. m. 209—2) La Grace, directly back of, 1.25 miles from river, on left bank, on | 1, 575. 73 |
| first spur projecting into Spring Creek Valley, wagon road at foot of knoll; surface of stone under iron pipe (Mo. R. Comm. b. m. 209—3) | 1, 639. 63 |
| La Grace, 4 miles below, on left bank, 0.25 mile from river, on small spur from foot of first bench, wagon road 30 feet distant toward hill, 700 feet from stage road; surface of stone under iron pipe (Mo. R. Com. b. m. 210—2) | 1, 566. 39 |
| La Grace, 7 miles below, on left bank, 300 feet from river, just below mouth of creek, on first bench, about 75 feet from edge of slope to bottom, near ranch known as Twiggs Place; surface of stone under iron pipe (Mo. R. Comm. b. m. 211—2) | 1, 586. 40 |
| 211—2, on lower side of creek valley, about 25 feet from edge of abrupt slope to creek, directly across valley is a sharp-pointed knoll covered with bowlders, 25 feet below old cattle trail further up hill; surface of stone under iron pipe (Mo. R. Comm. b. m. | |
| 211—3) La Grace, 12.5 miles below, on left bank, 200 feet from river, narrow strips of bottom between river and bench mark, 225 feet southwest of Anon Olson's house; surface of stone under iron pipe (Mo. | 1, 613. 33 |
| R. Comm. b. m. 212—2)————————————————————————————————— | 1, 592. 78 |
| under iron pipe (Mo. R. Comm. b.m. 212-3) La Grace, 15.5 miles below, 200 feet from river, on right bank, at head of bottom, on small knoll just below coulee, on east side of depression, 15 feet from edge of abrupt slope to bottom; surface of | 1, 605. 96 |
| stone under iron pipe (Mo. R. Comm. b.m. 213-1)La Grace, 16.5 miles below, on left bank, 400 feet from river, 0.5 mile below where river leaves cut bluffs and timber begins, 150 feet upstream from red warehouse; surface of stone under iron pipe | 1, 584. 30 |
| (Mo. R. Comm. b.m. 213-2) Ashley Island, opposite a point about 1,000 feet below head of, on left bank, just back from where first bench strikes river, 1,000 feet above small coulee; surface of stone under iron pipe (Mo. R. | 1, 572, 55 |
| Comm. b.m. 214-2) Ashley Island, 0.5 mile east of point 1,000 feet below head of, on second bench, 60 feet from slope to first bench, on left bank, 4 feet south of east-west line of fence; surface of stone under iron pipe | 1, 564. 07 |
| (Mo. R. Comm. b.m. 214-3) | 1, 614. 62 |

| Grand River, 0.5 mile below, 700 feet from river, on right bank, on | |
|--|-------------|
| spur from high knoll running out northwest from bench mark, | |
| 80 feet southeast of large granite bowlder buried in hillside; | Feet. |
| surface of stone under iron pipe (Mo. R. Comm. b.m. 215-1) | 1, 572. 01 |
| Grand River, 0.25 mile below mouth of, on left bank, on a slope of | |
| foothills, at head of bottom, in cultivated field, 50 feet south of | |
| deserted shack, 2 feet east of west side of same produced; surface | |
| of stone under iron pipe (Mo. R. Comm. b.m. 215-2) | 1.567.63 |
| Small Creek valley, lower side of, on gentle slope, on right bank, | 2,001.00 |
| 125 feet west of stable and nearly in line with south side of same, | |
| 250 feet north of shack; surface of stone under iron pipe (Mo. R. | |
| Comm. b.m. 216-1) | 1 550 75 |
| Grand River, 3.25 miles below mouth of, on left bank, 0.25 mile | 1, 300. 19 |
| | |
| from river, on first bench, 60 feet south by 50 feet west of Paul | |
| Carlson's house; surface of stone under iron pipe (Mo. R. Comm. | |
| b.m. 216-2) | 1, 551. 87 |
| LE BEAU QUADRANGLE, | |
| | |
| [Latitude 45°-45° 30'; longitude 100°-100° 30'.] | and State 1 |
| From point 0.25 mile below mouth of Grand River southerly along Missouri River to point 7.5 miles below Forest City. | |
| Blue Blanket Island, 1 mile below foot of, on left bank, 800 feet | Sell : |
| below coulee, 500 feet back from edge of high bluff bank, on level | |
| plateau; surface of stone under iron pipe (Mo. R. Comm. b.m. | |
| 217-2) | 1, 605, 00 |
| Blue Blanket Island, near, on left bank, 0.5 mile from river on spur | |
| between two draws at head of small coulee, 1,500 feet north of one | |
| log and one sod shack; surface of stone under iron pipe (Mo. R. | |
| Comm. b.m. 217-3) | 1, 603, 29 |
| Blue Blanket Island, 3.5 miles below, on left bank, 0.25 mile from | 2, 000. 20 |
| river, just at end of small brush along river bank, on first bench | |
| about 60 feet from edge of abrupt slope to bottom and just below | |
| coulee in which there is a wagon road; surface of stone under iron | |
| pipe (Mo, R. Comm. b.m. 218-2) | 1 597 79 |
| | 1, 501. 10 |
| Blue Blanket Island, 3.5 miles below, on left bank, about 0.5 mile | |
| back of 218-2, on flat-topped spur from high bluffs back, head of | |
| coulee just back of b.m., one on each side, joining in front, wagon | |
| road in coulee; surface of stone under iron pipe (Mo. R. Comm. | 1 047 04 |
| b.m. 218-3) | 1, 047. 24 |
| Le Beau, on left bank, on spur at end of high plateau just north of | |
| Swan Lake Creek valley, 600 feet east of timber in Missouri River | |
| valley, 50 feet from slope into creek valley; surface of stone under | 4 PPC 10 |
| iron pipe (Mo. R. Comm. b.m. 219-2) | 1, 550. 42 |
| Le Beau, on left bank, 90 feet west of post-office building, in valley | |
| of Swan Lake Creek, 0.5 mile back of b.m. 219-2; surface of | |
| stone under iron pipe (Mo. R. Comm. b.m. 219-3) | 1, 542. 72 |
| Scranton, on left bank, 0.5 mile from river, 100 feet south of bridge | |
| across coulee, 40 feet from wagon road, 280 feet south of corner | |
| of store and post office; surface of stone under iron pipe (Mo. | |
| R. Comm. b.m. 220-2) | 1, 547. 22 |
| Scranton, 2.5 miles below, on left bank, 200 feet from river, at end of | |
| willow bar, just above mouth of creek; surface of stone under iron | |
| pipe (Mo. R. Comm. b.m. 221-2) | 1, 539. 84 |
| | |

| Scranton, 2.5 miles below, on left bank, 0.5 mile back from river at |
|---|
| mouth of small creek, on flat spur from high bluffs on upper side |
| of valley; surface of stone under iron pipe (Mo. R. Comm. b.m. Feet. |
| 221-3) 1, 582, 23 |
| Scranton, 6.5 miles below, on left bank, just above mouth of creek, |
| at head of narrow bottom, 200 feet from river; surface of stone |
| under iron pipe (Mo. R. Comm. b.m. 222-2)1,558.07 |
| Scranton, 6.5 miles below, 0.3 mile back of 222—2, on left bank, 400 |
| feet above creek and 100 feet above old trail up creek valley; sur- |
| face of stone under iron pipe (Mo. R. Comm. b. m. 222—3) 1,569.12 |
| Scranton, 11.5 miles below, on left bank, opposite large valley on |
| right bank, 0.25 mile from river, 50 feet back from edge of high cut bluff, 100 feet above high butte standing alone 100 feet from |
| edge of cut bluff; surface of stone under iron pipe (Mo. R. Comm. |
| b. m. 223—2) 1,580.84 |
| Red frame house, 0.5 mile north of, 0.5 mile back from river, on left |
| bank, on gentle slope of bluffs, just above coulee which runs back |
| into high bluffs; surface of stone under iron pipe (Mo. R. Comm. |
| b. m. 223—3) 1, 628. 34 |
| Old Forest City, 2 miles above, on left bank, 0.5 mile from river, on |
| low bench land about 500 feet from edge of slope to bottom and |
| same distance to foot of bluffs, 1 mile below white frame house in |
| bottom, 1,500 feet above log shack; surface of stone under iron |
| pipe (Mo. R. Comm. b. m. 224—2)1, 518. 77 |
| Old Forest City, on left bank, 550 feet east by 300 feet south of |
| corner of schoolhouse, 300 feet from foot of bluffs; surface of |
| stone under iron pipe (Mo. R. Comm. b. m. 225—2) 1,520.30 |
| Forest City, opposite, at Cheyenne River Indian Agency, on right |
| bank, on bench land 30 feet from slope into bottom, 50 feet from |
| fence at fifth post from northeast corner; surface of stone under iron pipe (Mo. R. Comm. b. m. 226—1) |
| Forest City, on left bank, 20 feet from river bank, 60 feet above |
| mouth of coulee and about 140 feet below Hotel Hathaway; surface |
| of stone under iron pipe (Mo. R. Comm. b. m. 226—2) 1,524.90 |
| Forest City, 4.5 miles below, on left bank, 600 feet from river bank, |
| on high prairie bench which slopes gradually just below, at lower |
| end of where there is open prairie to river for 0.25 mile; surface |
| of stone under iron pipe (Mo. R. Comm. b. m. 227-2)1,517.70 |
| Forest City, 4.5 miles below, 0.3 mile back of 227-2, on left bank, |
| on gentle slope at foot of bluffs, 700 feet below coulee with log |
| shack in mouth, 500 feet above spur running out from bluffs into |
| flat; surface of stone under iron pipe (Mo. R. Comm. b. m. 227-3) 1,545.39 |
| OKOBOJO QUADRANGLE. |
| [Latitude 44° 30′-45°; longitude 100°-100° 30′.] |
| From point about 7.5 miles below Forest City southerly along Missouri River to |
| Fairbank. |
| Forest City, 7.5 miles below, 500 feet from river bank in bottom, on |
| left bank, wagon road to river about 50 feet above, 0.5 mile above |
| mouth of Pascal Creek on right bank; surface of stone under iron |
| pipe (Mo. R. Comm. b. m. 228—2) 1,499.75 |
| Forest City, 7.5 miles below, 0.5 mile back of 228-2, on left bank, |
| 0.25 mile below house of C. B. Rosa, just outside of fence line, |
| on gentle slope at foot of bluffs; surface of stone under iron pipe |
| (Mo. R. Comm. b. m. 228—3) 1,539.78 |
| |

| (Mo. R. Comm. b. m. 229—2) 1, 498.09 Forest City, 13 miles below, 0.8 mile back of 229—2, on left bank, 300 feet back from edge of first bench, 400 feet from foot of bluffs, 0.3 mile above house of S. C. Leppelmann, 200 feet above cultivated field; surface of stone under iron pipe (Mo. R. Comm. b. m. 229—3) 1, 505.40 Forest City, 17.5 miles below, on left bank, 250 feet from river, on rolling prairie, 0.25 mile below where high bluffs leave river, a short broad coulee is just back of bench mark, 125 feet in front of wagon road; surface of stone under iron pipe (Mo. R. Comm. b. m. 230—2) 1, 513.40 Fairbank, on left bank, 700 feet from river on first bench land, 30 feet from edge of slope into bottom, small coulee just above, just opposite lower end of Plum Island; surface of stone under iron pipe (Mo. R. Comm. b. m. 231—2) 1, 502.10 Fairbank, on left bank, 0.25 mile back of store and hotel, on top of flat mound about 30 feet back from edge of abrupt slope, 0.8 mile from river, opposite foot of Plum Island; surface of stone under iron pipe (Mo. R. Comm. b. m. 231—3) 1, 564.73 | |
|--|--|
| THE RESIDENCE OF THE PARTY AND | |
| Near Spring Creek. | |
| Spring Creek, 450 feet above, 6.5 miles below Fort Sully, 1 mile from river, on left bank, on first bench near edge of slope; surface of stone under iron pipe (Mo. R. Comm. b. m. 240—2)1,472.63 | |
| FORT BENNETT QUADRANGLE. | |
| [Latitude 44° 30'-45°; longitude 100° 30'-101°.] | |
| From point near Fairbank southwest, northwest, and southeast along Missouri River to point 12.5 miles below Fort Sully. | |
| Devils Island, opposite point a little below foot of, on right bank, 0.3 mile from river and on first bench land, about 110 feet from edge of slope, in draw which develops into a coulee at edge of bench; surface of stone under iron pipe (Mo. R. Comm. b. m. 232—1) 1,511.26 Devils Island, a little below willows at foot of, on left bank, on slope of hill between two coulees, 150 feet from edge of cut river bank; surface of stone under iron pipe (Mo. R. Comm. b. m. 232—2) 1,521.77 Devils Island, 3 miles below willows at foot of, on left bank, 300 feet from river bank, on slope of grassy hill just below large coulee which has three branches (this hill is the only one in the vicinity), 0.3 mile above lower end of "bad lands" along river; surface of stone under iron pipe (Mo. R. Comm. b. m. 233—2) 1,530.21 Devils Island, 6.25 miles below foot of, 600 feet from river, on knoll in bottom, on left bank, 0.25 mile above point of timber; surface of stone under iron pipe (Mo. R. Comm. b. m. 234—2) 1,483.58 Devils Island, 6.25 miles below foot of, on left bank, 0.8 mile from river, on flat knoll on slope of foothills, just above where heavy timber begins, 100 feet west of north-south line of wire fence | |

| along which is a wagon road, 0.25 mile to foot of bluffs; surface of | Feet. |
|---|------------|
| stone under iron pipe (Mo. R. Comm. b. m. 234-3) | 1, 530. 74 |
| Devils Island, 10.25 miles below foot of, on left bank, 0.25 mile from | |
| river, on ridge in clear ground back of timber, another strip of | |
| timber and brush back about 40 feet where trail comes out of brush, | |
| 20 feet from gate to an inclosed field; surface of stone under iron | |
| pipe (Mo. R. Comm. b. m. 235—2) | |
| Devils Island, 10.25 miles below foot of, on left bank, 0.25 mile from | 11 |
| river, on a ridge in clear ground back of timber, another strip of | |
| timber and brush back about 40 feet where trail comes out of | |
| brush, 20 feet from gate at entrance of an inclosed field; surface of | |
| stone under iron pipe (Mo. R. Comm. b. m. 235-2) | |
| Devils Island, 10.25 miles below foot of, 0.8 mile from river, on | |
| left bank, on first bench, brush along foot of bluffs back of bench | |
| mark but clear in front, log shack in bottom about 100 feet above | |
| and the same distance toward the river; surface of stone under | |
| iron pipe (Mo. R. Comm. b. m. 235—3) | 1, 492. 22 |
| Old Fort Bennett, opposite a point a little above, 5 miles below | |
| 235-2, on left bank, 200 feet from river and just above coulee, | |
| old shack covered with barrel staves 1,000 feet back; surface of | |
| stone under iron pipe (Mo. R. Comm. b. m. 236-2) | 1, 489. 02 |
| Old Fort Bennett, 0.25 mile back of 236-2, on left bank, at foot of | |
| bluffs, at head of coulee, 320 feet back of log shack covered with | |
| barrel staves; surface of stone under iron pipe (Mo. R. Comm. | |
| b. m. 236—3) | 1, 536. 72 |
| Old Fort Bennett, 3 miles below, on left bank, 0.8 mile from river, | |
| on spur at foot of bluffs just above coulee, wagon road 50 feet | |
| from foot of bluffs, opposite a point about 1 mile from head of | |
| Whisky Island; surface of stone under iron pipe (Mo. R. Comm. | |
| b. m. 237—2) | 1, 468. 41 |
| Fort Sully, on north corner of south brick window sill on east side of | |
| waterworks pump house; mark cut into brick and marked | |
| "U. S. B. M." (Mo. R. Comm. b. m.) | 1, 460. 02 |
| Fort Sully, just below first coulee below, on left bank, on high bench | |
| 60 feet from edge of slope to creek, 80 feet from edge of slope to | A. P. L. |
| river bottom; surface of stone under iron pipe (Mo. R. Comm. | 1 404 07 |
| b. m. 238—2) Fort Sully, 0.25 mile back of 238—2, on left bank, in coulee just | 1, 491. 87 |
| | |
| below fort Sully, on little spur over which a wagon road passes 20 feet south; surface of stone under iron pipe (Mo. R. Comm. | |
| b. m. 238—3) | 1 400 70 |
| Fort Sully, 3 miles below, 400 feet from river, in left bank, 15 feet | 1, 499. 10 |
| south of old wagon road, 225 feet north of another road, 550 feet | |
| below where roads join, 0.25 miles above Lower Sully Landing; | |
| surface of stone under iron pipe (Mo. R. Comm. b. m. 239—2) | 1 456 17 |
| Fort Sully, 3 miles below, on left bank, 0.8 mile from river, on a | 1, 100. 11 |
| very gentle slope from bench land to river, 400 feet back from | |
| main wagon road, 200 feet toward river from foot of abrupt slope | |
| up to first bench, just below coulee; surface of stone under iron | |
| pipe (Mo. R. Comm. b. m. 239—3) | 1, 469, 12 |
| | 14 1/1 1/2 |

| DESCRIPTION DE LES MAISON DE LE CONTRIBUTION DE LE | . 01 |
|---|---------------------|
| Fort Sully, 10 miles below, on left bank, 150 feet from river, on high plateau, 75 feet from edge of slope and just below deep, narrow ravine; surface of stone under iron pipe (Mo. R. Comm. b. m. 241—2) | Feet. 1, 495. 04 |
| Fort Sully, 10 miles below, 800 feet back of 241—2, on left bank, on gentle slope, deep coulee above about 150 feet, rolling plateau below; surface of stone under iron pipe (Mo. R. Comm. b. m. 241—3) | |
| VAN METRE QUADRANGLE. | |
| | |
| [Latitude 44°-44° 30'; longitude 100° 30'-101°.] From point 10 miles below Fort Sully southerly and easterly along Missouri River to point 19 miles below Fort Sully. | |
| Fort Sully, 12.5 miles below, on left bank, 300 feet below where clear prairie bottom begins, on high plateau about 100 feet back from edge of abrupt slope to bottom, plateau is rolling above but nearly level below; surface of stone under iron pipe (Mo. R. Comm. | |
| b. m. 242—2)————————————————————————————————— | |
| iron pipe (Mo. R. Comm. b. m. 243—2) Fort Sully, 15 miles below, on left bank, 1 mile back of 243—2, 150 feet from foot of abrupt slope, 0.8 mile back of Oahe Mission, just above coulee in which is an old trail 15 feet north of bench mark, graveyard on top of hill about 700 feet above; surface of stone under iron pipe (Mo. R. Comm. b. m. 243—3) | |
| PIERRE QUADRANGLE. | |
| [Latitude 44°-44° 30'; longitude 100°-100° 30'.] | |
| From point 19 miles below Fort Sully east, south, and easterly along Missouri River to point 6 miles below Rousseau. | |
| Fort Sully, 19 miles below, on left bank, on edge of first bench just back of timber and brush, 0.25 mile from foot of bluffs, 0.3 mile below white schoolhouse at foot of bluffs, 100 feet upstream from bench line; surface of stone under iron pipe (Mo. R. Comm. | 4 407.07 |
| b. m. 244—2)————————————————————————————————— | |
| iron pipe (Mo. R. Comm. b. m. 245—2) Stony Hill triangulation station, 0.3 mile west of, on left bank, 0.5 mile from river, in first bench, 250 feet from edge of slope, wagon road at foot of bench, opposite a point about 0.25 mile below head of island; surface of stone under iron pipe (Mo. R. Comm. b. m. | |
| 245—3) Fort Sully, 24 miles below, on left bank, a little above lower end of willows on small island, 60 feet back from edge of abrupt slope, on second high grassy knoll above high cut gumbo hill; surface of stone under iron pipe (Mo. R. Comm. b. m. 246—2) | |
| 00000° D-11 040 40 0 | |

29392°-Bull. 643-16-6

| Stanley, a little above town of, which is on opposite bank, on left ban | k, |
|--|--------------|
| 2.5 miles below 246-2, just above mouth of small creek and 30 fe | |
| back from abrupt slope to river, 50 feet north of small shack in sie | |
| of hill, near river bank; surface of stone under iron pipe (Mo. | |
| | |
| Comm. b. m. 247—2) | |
| Fort Pierre, on right bank, 700 feet back from river, 700 feet about | |
| Bad River, on a gumbo hill just back of houses on Deadwood Stree | |
| surface of stone under iron pipe (Mo. R. Comm. b. m. 248-1) | 1, 450. 79 |
| Pierre, on left bank, in courthouse yard, on west side; surface | of |
| stone under iron pipe (Mo. R. Comm. b. m. 248-2) | 1, 490. 58 |
| Pierre, at corner of Pierre Street and Sioux Avenue; top of cap | n |
| hydrant (Mo. R. Comm. b. m) | |
| Pierre, on doorstep at entrance to National Bank of Commerce buil | |
| ing (U. S. Weather Bureau b. m.) | |
| Pierre Indian Training School, just inside of fence around, on le | |
| bank, 100 feet north by 150 feet west of northwest corner of ma | |
| | |
| building, 2 feet south of sixth fence post south of gate at entrange of stone under iron pine. (Me. R. Comm. h. | |
| to grounds; surface of stone under iron pipe (Mo. R. Comm. b. 1 | |
| 249—2) | |
| Pierre, 3.5 miles below, on left bank, on small gumbo knoll opposi | |
| about the middle of Farm Island, 150 feet from river bank, 225 fe | |
| from Chicago & North Western Ry., at a point 90 feet below bridge | |
| 283; surface of stone under iron pipe (Mo. R. Comm. b. m. 250—2) | |
| Barth triangulation station, just above high knoll on which station | is |
| located, 0.25 mile back of 250-2 in coulee, on left bank, house of | |
| top of hill directly back about 0.5 mile; surface of stone under ire | n |
| pipe (Mo. R. Comm. b. m. 250—3) | _ 1, 469. 63 |
| Pierre, 6.3 miles below, on left bank, 1,000 feet from river bank, of | |
| low bench land, just above fence line which runs to river bank an | |
| above a grove of small cottonwood trees; surface of stone unde | |
| iron pipe (Mo. R. Comm. b. m. 251—2) | |
| Pierre, 9 miles below, on left bank, 200 feet from river, where prair | |
| bottom slopes up and gets higher along the river, just above line | |
| fence which runs to river bank, 0.25 mile below shack and 0.2 | |
| mile above another shack; surface of stone under iron pipe (Mo. I | |
| | |
| Comm. b. m. 252—2) | |
| Milepost 271, 240 feet back from Chicago and North Western Ry. trac | |
| at a point 40 feet above, 270 feet above road crossing, in flat gumb | |
| bottom, on left bank; surface of stone under iron pipe (Mo. I | |
| Comm, b. m, 252—3) | |
| Rousseau, on left bank, straight out from 253—3 0.25 mile, just bac | |
| of brush along river bank, 15 feet east of small patch of cultivate | d |
| land; surface of stone under iron pipe (Mo. R. Comm. b. m. 253-2) | |
| Rousseau, on left bank, on side hill just on corner of bluffs bounding | g |
| Creek valley and Missouri River valley, 1,000 feet above section | n |
| house, 1,000 feet southeast of black cross in graveyard, 100 fee | t |
| from foot of hill is railroad; surface of stone under iron pip | e |
| (Mo. R. Comm. b. m. 253-3) | |
| Rousseau, 3 miles below, 0.8 mile from river, on left bank, on gentle | e |
| slope of bluffs, 150 feet back from slope to timbered bottom; su | |
| face of stone under iron pipe (Mo. R. Comm. b. m. 254-2) | |
| The first way in the first way and a second way are a second way and a sec | |

DEGREY QUADRANGLE.

[Latitude 44°-44° 30'; longitude 99° 30'-100°.]

| From point 3 miles below Rousseau southerly, easterly, northwesterly, easterly, and southerly along Missouri River to point near Cow Creek Indian Agency. | |
|---|------------|
| Rousseau, 6 miles below, on left bank, 80 feet from edge of cut bank, | |
| near old trail leading to water, on spur between two small draws, | |
| 400 feet below mouth of creek, near several large trees; surface of | 704 |
| | Feet. |
| stone under iron pipe (Mo. R. Comm. b. m. 255-2) | 1, 431. 31 |
| Rousseau, 6 miles below, on left bank, 700 feet from river, on top of | |
| high rolling plateau, 180 feet below slope into wide coulee in which | |
| are large trees near mouth, also two shacks, one above and one be- | |
| low creek bed; surface of stone under iron pipe (Mo. R. Comm. | |
| b. m. 255—3) | 1, 461, 26 |
| Rousseau, 9 miles below, on left bank, 600 feet from river bank, 0.5 | |
| mile above Chapelle Creek, 20 feet from edge of slope into low bot- | |
| tom covered with willows and brush, 340 feet below corner of fence; | |
| | 1 400 01 |
| surface of stone under iron pipe (Mo. R. Comm. b. m. 256-2) | 1, 408. 21 |
| Rousseau, 9 miles below, on left bank, 0.3 mile back from 256-2, | |
| on bench land about 200 feet from edge of slope and 900 feet below | |
| small shack; surface of stone under iron pipe (Mo. R. Comm. b. m. | |
| 256-3) | 1, 424. 19 |
| Chapelle Creek, 3 miles below, on left bank, opposite end of willows | |
| of shore bar, on slope of hills, 75 feet from edge of an abrupt slope | 1 |
| to river, coulee just below; surface of stone under iron pipe (Mo. R. | |
| Comm. b. m. 257—2) | 1, 448, 13 |
| Chapelle Creek, 6 miles below, on left bank, 0.25 mile below head | |
| of bottom, and one-half mile above head of Dorion Island No. 2, on | |
| | |
| edge of first bench land, 20 feet from edge of abrupt slope; surface | 4 400 00 |
| of stone under iron pipe (Mo. R. Comm. b. m. 258—2) | 1, 438. 98 |
| Chapelle Creek, 6 miles below, on top of plateau, on left bank, 530 | |
| feet east by 470 feet south of b. m. 258-2; surface of stone under | |
| iron pipe (Mo. R. Comm. b. m. 258-3) | 1, 456. 39 |
| St. Dorion Island No. 1, 0.5 mile below head of, on left bank, on high | |
| plateau, 350 feet from river and 150 feet from edge of slope of | |
| plateau, on northeast corner of NE. 4 sec. 13, T. 108, R. 75, the | |
| azimuth from bench mark to section corner being 176° 11' and dis- | |
| tance 382 feet; surface of stone under iron pipe (Mo. R. Comm. | |
| b. m. 259—2) | 1, 443, 26 |
| St. Dorion Island No. 1, near head of, on left bank, 3 miles below | 1, 110, 20 |
| 260—3, on sand ridge which forms a well-defined bench meeting | |
| river bank about 500 feet below, a few scattered trees and brush | |
| | |
| are on lower bottom; surface of stone under iron pipe (Mo. R. | 4 400 04 |
| Comm. b. m. 260—2) | 1, 402. 81 |
| St. Dorion Island No. 1, 3.5 miles below head of, on left bank, 0.5 | |
| mile from river, on slope from bottom to high bench land, 360 feet | |
| below coulee; surface of stone under iron pipe (Mo. R. Comm. | |
| b. m. 260—3) | 1, 425. 30 |
| St. Dorion Island No. 1, 5 miles below head of, on left bank, 700 feet | - |
| from river, timber commences about 1,000 feet below along river | |
| bank, ruins of old shack on edge of low brush land about 600 feet | |
| back, there is also a shack one-half mile below; surface of stone | |
| under iron pipe (Mo. R. Comm. b. m. 261—2) | 1, 395, 15 |
| under non pape (and its commit of the source systems | _, 000, 10 |

| St. Dorion Island No. 1, 8.5 miles below head of, 300 feet from river, below end of timber, on low bench, 20 feet from edge of slope to narrow point of bottom; surface of stone under iron pipe (Mo. R. Comm. b. m. 262—2) | Feet. 1,402. 12 |
|---|--------------------|
| St. Dorion Island No. 1, 8.5 miles below head of, on left bank, 1,000 feet from river, on slope of hills just back from end of timber, brush about 300 feet below along coulee, large trees at foot of high hills about 700 feet back; surface of stone under iron pipe (Mo. R. Comm. b. m. 262—3) | 1, 443. 92 |
| St. Dorion Island No. 1, 11.8 miles below, on left bank, on slope of hill between two small coulees, just above where rough country begins near river bank, about 70 feet back from where slope is abrupt to cut bank of river; surface of stone under iron pipe | |
| (Mo. R. Comm. b. m. 263—2) St. Dorion Island No. 1, 11.8 miles below, on left bank, 400 feet from river, on slope of hill about 1,000 feet below where timber begins along river, just above third small coulee below timber; | |
| surface of stone under iron pipe (Mo. R. Comm. b. m. 264—2) St. Dorion Island No. 2, 11.8 miles below, on left bank, 600 feet back of bench mark 264—2, on gentle slope toward small coulee, which heads just back of and below bench mark; surface of stone under iron iron (Mo. R. Comm. b. m. 264—2) | ure ar |
| iron pipe (Mo. R. Comm. b. m. 264—3) | 1, 447. 10 |
| (Mo. R. Comm. b. m. 265—2)—————————————————————————————————— | 1, 391. 71 |
| hills below; surface of stone under pipe (Mo. R. Comm. b. m. 266—1) | 1, 423. 65 |
| St. Dorion Island No. 1, 17.8 miles below, on left bank, on edge of first bench land, back of timber and 0.25 mile above end of it; surface of stone under iron pipe (Mo. R. Comm. b. m. 266—2) Devils Island, opposite center of timber on, 100 feet from river on | 1, 390. 22 |
| right bank, on small broken ridge running parallel with river, at upper end of row of large trees; surface of stone under iron pipe (Mo. R. Comm. b. m. 267—1) | 1, 402. 30 |
| Big Bend, on point of, at end of narrow belt of large timber along river bank opposite foot of St. John Island, on right bank, on a spur of broken rolling bench land where it turns and bottom land begins; surface of stone under iron pipe (Mo. R. Comm. b. m. | |
| begins; surface of stone under from pape (Mo. 12. Comm. b. m. 268—1) | 1, 405. 36 |
| pipe (Mo. R. Comm. b. m. 269—1 | 1, 372. 37 |
| face of stone under iron pipe (Mo. R. Comm. b. m. 269—2) Big Bend, 6 miles below point of, on right bank, on long sand ridge, at lower end of timber along river, a low bottom is back of | 1, 383. 00 |
| it with scattered small brush and few large trees; surface of stone under iron pipe (Mo. R. Comm. b. m. 270—1) | 1, 377. 37 |

| Big Bend, 10 miles below point of, on right bank, on low bench land about 700 feet from river and opposite lower end of timber on left bank, 500 feet from where higher bench starts out, 100 feet above a single large cottonwood tree, 50 feet below 3 or 4 small ones; surface of stone under iron pipe (Mo. R. Comm. b. m. 271—1) | Feet. 1, 368. 40 1, 384. 73 1, 401. 18 |
|--|--|
| STEPHAN QUADRANGLE. | |
| [Latitude 44°-44° 30'; longitude 99°-99° 30'] | |
| From point near Crow Creek Indian Agency southeast along Missouri River to point near Old Fort Hale. | |
| Crow Creek Indian Agency, near, on right bank, 20 feet back from edge of cut bluff bank, a deep coulee is above it with high rock bank on upper side and low bank on other side, a small deep coulee is also below bench mark; the sides of bluffs back and a little below are covered with cedar trees; surface of stone under iron pipe (Mo. R. Comm. b. m. 274—1) | 1, 374. 70 |
| OACOMA QUADRANGLE. | |
| [Latitude 43° 30′-44°; longitude 99°-99° 30′.] | |
| From point near site of Old Fort Hale southerly along Missouri River to Cham- | |
| berlain. Old Fort Hale, at site of, on right bank, on low foothills about 150 feet below an old excavation, directly back from a grove of large trees in bottom, brush is along foot of bluffs and in coulee just below; surface of stone under iron pipe (Mo. R. Comm. b. m. 277—1) | 1, 365. 69 |

| Old Fort Hale, 3 miles below site of, on right bank, on top of | |
|---|------------|
| high broken plateau, 200 feet below a coulee up which runs a | |
| wagon road from bottom, frame house in bottom directly in front | |
| of it and Indian shack on plateau about 300 feet north and west, | |
| 100 feet from corner of a fence; surface of stone under iron pipe | Feet. |
| (Mo. R. Comm. b. m. 278—1) | 1, 394. 96 |
| Old Fort Hale, 6.5 miles below site of, on right bank, 400 feet above | |
| where river strikes bluffs and just above first coulee back from | |
| where river strikes bluffs, on spur from high bluffs about 20 feet | |
| from edge of cut bluff bank; surface of stone under iron pipe | |
| (Mo. R. Comm. b. m. 279—1) | 1, 374. 12 |
| Old Fort Hale, 10 miles below, on right bank, on spur of hills just | |
| below a coulee, a small shack is 200 feet above and a frame house | |
| about 700 feet below; surface of stone under iron pipe (Mo. R. | |
| Comm. b.m. 280—1) | 1, 360. 93 |
| Old Fort Hale, 11.5 miles below site of, on low bench land back from | |
| end of timber along river, four large trees are in prairie below | |
| and a strip of brush is along foot of bench, a little above a small | |
| two-story house on second bench; surface of stone under iron pipe | 1 045 00 |
| (Mo. R. Comm. b. m. 281—1)Chamberlain, at center of intersection of Main and Clemens streets; | 1, 345, 60 |
| on cast-iron monument 2.5 feet long, set about 1 foot below surface | |
| of street (City bench mark) | 1 901 97 |
| Chamberlain, on brick water table at northeast corner of Taft House | |
| Chamberlain, on water table of High School, close up to brickwork | 1, 111. 00 |
| of northwest corner of building, 4 inches above ground; beveled | |
| edge of water table on north side is painted white and marked | |
| "1,468.22 feet above sea level" | 1, 468, 17 |
| Chamberlain, in High School yard, 90 feet west and 18 feet north | |
| from southwest corner south wing of this building; surface of | |
| stone under iron pipe (Mo. R. Comm. b. m. 282-2) | 1, 453. 61 |
| | |
| From Chamberlain southerly along Missouri River to point near Bijou Hills. | |
| Chamberlain, 2 miles below, on left bank, 0.25 mile above foot of | |
| American Island, 250 feet below small frame house, 100 feet from | |
| river; stone surmounted by iron pipe (Mo. R. Comm. b. m. 283-2), | |
| surface of stone | 1. 354. 04 |
| American Creek, opposite mouth of, on left bank, just below small | |
| creek, 100 feet in front of house of George Linebeck; stone sur- | |
| mounted by iron pipe (Mo. R. Comm. b. m. 284-2), surface of | |
| stone | 1, 360. 52 |
| Brule Indian Agency, 135 feet west by 55 feet south of southwest | |
| corner of agent's office, in southwest corner of yard, on right bank; | |
| stone surmounted by iron pipe (Mo. R. Comm. b. m. 284-1), | |
| surface of stone | 1, 368. 54 |
| Peterson Creek, 150 feet above, 700 feet from river, on left bank, on | |
| first bench, 100 feet back from edge of bank; stone surmounted by | |
| iron pipe (Mo. R. Comm. b. m. 285—2), surface of stone1 | , 349. 31 |
| Peterson Creek, 400 feet above, 0.25 mile back of 285-2, on south | |
| side of young grove or timber claim; stone surmounted by iron | |
| pipe (Mo. R. Comm. b. m. 285—3), surface of stone1 | , 365. 61 |

| Peterson Bottom, 0.25 mile above end of, on left bank, 350 feet | |
|--|--------------------|
| from river, on nose of bluffs below small wooded coulee; stone | |
| surmounted by iron pipe (Mo. R. Comm. b. m. 286—2), surface of stone | Feet. |
| White River, 1.5 miles below, 2,000 feet below head of bottom, on | 1,000.00 |
| edge of low broken bench land, 200 feet from foot of bluffs, 650 | |
| feet from river, on left bank; stone surmounted by iron pipe | |
| (Mo. R. Comm. b. m. 287—2), surface of stone David Forbes's house, 500 feet southwest of, 800 feet from river, on | 1, 338. 71 |
| first bench, 2 miles below 287—2, on left bank; stone surmounted | |
| by iron pipe (Mo. R. Comm. b. m. 288—2), surface of stone | 1, 329. 94 |
| David Forbes's house, 800 feet north of, 0.25 mile back of 288-2, on | |
| flat prairie, 300 feet north of wagon road; stone surmounted by | 1 990 10 |
| iron pipe (Mo. R. Comm. b. m. 288—3), surface of stone David Forbes's house, 3 miles below, on left bank, 400 feet from foot | 1, 520, 10 |
| of steep bluffs, on gentle slope and near corner of wire fence, just | |
| outside of inclosure, 800 feet northwest of log shack; stone sur- | |
| mounted by iron pipe (Mo. R. Comm. b. m. 289-2), surface of | 1 050 44 |
| stone General Brooks Island, opposite head of, on lower side of small coulee | 1, 552, 44 |
| with single large elm tree at mouth, on left bank, at end of bottom, | |
| on bench land 250 feet from river; stone surmounted by iron pipe | |
| (Mo. R. Comm. b. m. 290—2), surface of stone | 1, 362. 04 |
| Sonora Island, near foot of, on left bank, 100 feet from river on nose of bluffs below small steep coulee; stone surmounted by iron pipe | |
| (Mo. R. Comm. b. m. 291—2), surface of stone | 1, 363. 05 |
| Elm Creek, 400 feet below, on left bank, on high bench land, 150 feet | |
| from river, 1,000 feet south of house and barn of La Follette's | |
| horse ranch; stone surmounted by iron pipe (Mo. R. Comm. b. m. 292—2), surface of stone | 1 339 24 |
| La Follette's horse ranch, 100 feet south of house at, 1,000 feet back | 1,000.21 |
| of b. m. 292-2, just inside of fence around barnyard, 300 feet | |
| below creek; stone surmounted by iron pipe (Mo. R. Comm. b. m. | 1 000 10 |
| 292—3), surface of stone | 1, 352. 13 |
| 292—2, on left bank, 0.25 mile below small creek, 20 feet north of | |
| road up bottom just back of brush and timber line; stone sur- | |
| mounted by iron pipe (Mo. R. Comm. b. m. 293-2), surface of | |
| stone | 1, 319. 36 |
| HERRICK QUADRANGLE. | |
| [Latitude 43°-43° 30'; longitude 99°-99° 30'.] | a STORIET |
| From point near Bijou Hills southeast along Missouri River to point near Cedar Creek. | MA HORIT |
| Bijou Hills, near, on left bank, 3 miles below 293-2, on lower side of | Cal (Burst |
| small coulee where level bench land begins, 125 feet from river, | |
| 150 feet south of old foundation of shack; stone surmounted by | 1 004 47 |
| iron pipe (Mo. R. Comm. b. m. 294—2), surface of stone Durex Island, opposite foot of, on left bank, on level plateau, 130 | 1, 334. 17 |
| feet from edge of abrupt slope to river, 0.25 mile above head of | THE REAL PROPERTY. |
| bottom, 1 mile above upper house of Rhodes's ranch; stone sur- | Charles Same (1) |
| mounted by iron pipe (Mo. R. Comm. b. m. 295-2), surface of | and the second |
| stone | 1, 347. 72 |

| Durex Island, 0.25 mile back of foot of, on gentle slope, 500 feet from | |
|---|-------------|
| foot of abrupt slope of high bluffs, 200 feet west of fence line, on | |
| left bank; stone surmounted by iron pipe (Mo. R. Comm. b. m. | Feet. |
| 295—3), surface of stone | 1, 384. 24 |
| J. Ham's house, 1,000 feet west of, on left bank, 2 miles below 295—2, | |
| 200 feet west of narrow lane, 10 feet south of wagon road, 400 feet | |
| from river; stone surmounted by iron pipe (Mo. R. Comm. b. m. | |
| 296—2), surface of stone | 1, 301. 45 |
| Rhodes's horse ranch, 600 feet west of house at, 100 feet west of road | |
| to river, on left bank, 1.5 miles below end of bottom, on small | |
| mound, 200 feet west of creek; stone surmounted by iron pipe | 1. 50 1. 2. |
| (Mo. R. Comm. b. m. 297—2), surface of stone | 1, 319. 52 |
| Island No. 3, opposite foot of, 0.5 mile above head of bottom, on left | |
| bank, 3 miles below 297—2, 100 feet above small creek, 25 feet | |
| from edge of cut bank of river, 1,000 feet in front of Philip | |
| Turgeon's house; stone surmounted by iron pipe (Mo. R. Comm. | |
| b. m. 298—2), surface of stone | 1, 305. 50 |
| Island No. 1, opposite head of, on left bank, 0.25 mile above foot | |
| of bottom, in bottom 100 feet from river just back of single elm | |
| tree; stone surmounted by iron pipe (Mo. R. Comm. b. m. 299—2), | 1 000 01 |
| surface of stone | 1, 289. 31 |
| feet back of 299—2; stone surmounted by iron pipe (Mo. R. Comm. | |
| b. m. 299—3), surface of stone | 1 914 51 |
| Turgeon's red frame house, 3 miles below, on left bank, 75 feet above | 1, 514. 51 |
| small creek, 125 feet from river bank, on small mound at head of | |
| bottom; stone surmounted by iron pipe (Mo. R. Comm. b. m. | |
| 300—2), surface of stone | 1.304.24 |
| Turgeon's red frame house, 6 miles below, on left bank, on small | 1,001.21 |
| ridge 200 feet from river, 0.25 mile above where timber begins; | |
| stone surmounted by iron pipe (Mo. R. Comm. b. m. 301-2), | |
| surface of stone | 1, 281, 69 |
| Oldham's yellow frame house, 0.25 mile below, 300 feet west of log | |
| shack below creek, 1,000 feet back of b. m. 301-2, in first bench | |
| above creek; stone surmounted by iron pipe (Mo. R. Comm. b. m. | |
| 301—3), surface of stone | 1, 311. 36 |
| LAKE ANDES QUADRANGLE. | |
| | |
| [Latitude 43°-43° 30'; longitude 98° 30'-99°.] | |
| From point near Cedar Creek southeasterly along Missouri River to point 5.5 miles below White Swan. | |
| Turgeon's red frame house, 9 miles below, on left bank, on low bench | |
| about 350 feet below small creek, 200 feet from river, just above | |
| end of bottom, 100 feet above log shack, road along bluffs back of | |
| bench mark; stone surmounted by iron pipe (Mo. R. Comm. b. m. | 10 93 L D |
| 302—2), surface of stone | 1, 287. 84 |
| Warehouse on river bank, 0.5 mile above, on bottom opposite begin- | |
| ning of timber, 2,000 feet below head of bottom, 200 feet from | |
| river, on left bank, 1 mile below place where Senator Jones lives | |
| on Cedar Creek; stone surmounted by iron pipe (Mo. R. Comm. | to land |
| b. m. 303—2), surface of stone | 1, 279. 34 |
| Warehouse on river bank, 0.5 mile above, 700 feet back of 303—2, on | |
| edge of first bench; stone surmounted by iron pipe (Mo. R. Comm. | 1 005 05 |
| b. m. 303—3), surface of stone | 1, 305. 95 |
| | |

| Warehouse on river bank, 2.8 miles below, about 0.5 mile above | |
|--|------------|
| where river strikes bluffs, on narrow nose between two small | |
| coulees, just below large chalk-rock house at foot of bluffs, road | |
| from house straight out to river; stone surmounted by iron pipe | Feet. |
| (Mo. R. Comm. b. m. 304-2), surface of stone | 1, 310. 43 |
| Wheeler Ferry, 1 mile above, on left bank, 3 miles below 304-2, on | |
| broken foothills, 100 feet from river, just above small coulee above | |
| head of bottom; stone surmounted by iron pipe (Mo. R. Comm. | |
| b. m. 305—2), surface of stone | 1, 288, 44 |
| Wheeler, 25 feet south of road to river from, on left bank, on first | |
| bench, 400 feet from river, 7 feet west of north-south wire fence; | |
| stone surmounted by iron pipe (Mo. R. Comm. b. m. 306-2), sur- | |
| face of stone | 1, 269. 39 |
| Wheeler, in northeast corner of courthouse yard; stone surmounted | |
| by iron pipe (Mo. R. Comm. b. m. 306-3), surface of stone | 1, 310. 22 |
| Wheeler, 3 miles below, on left bank, on first bench, 300 feet from | |
| river, 100 feet above where heavy timber begins, 1,000 feet south- | |
| east of sod shack and 600 feet below log shack; stone surmounted | |
| by iron pipe (Mo. R. Comm. b. m. 307—2), surface of stone | 1, 268. 56 |
| Wheeler, 3 miles below, about 0.5 mile back of 307-2, on gentle slope | |
| from bluff, on south side of road, 0.5 mile east of house of | |
| Matthew Biggins; stone surmounted by iron pipe (Mo. R. Comm. | |
| b. m. 307—3), surface of stone | 1, 284. 48 |
| Wheeler, 6 miles below, on left bank, at end of bottom, 1 mile | |
| below Pease Creek, 200 feet from river on foothills, 400 feet in | |
| front of small graveyard; stone over which is set a 3-inch ash post | |
| 4 feet high (pipe is gone), (Mo. R. Comm. b. m. 308-2), surface | |
| of stone | 1, 287. 33 |
| Chicot Island, opposite head of, on left bank, on low foothills 100 feet | |
| from river, just above head of bottom; stone surmounted by iron | |
| pipe (Mo. R. Comm. b. m. 309-2), surface of stone | 1, 277. 78 |
| Yankton Indian Reservation, 1 mile below upper end of, 300 feet | |
| from river, on left bank; stone surmounted by iron pipe (Mo. R. | |
| Comm. b. m. 310-2), surface of stone | 1, 251. 20 |
| Yankton Indian Reservation, 1 mile below upper end of, 0.8 mile | |
| back of 310-2, on first bench, several Indian shacks on low bluffs | |
| one-half mile back of bench mark; stone surmounted by iron pipe | |
| (Mo. R. Comm. b. m. 310—3), surface of stone | 1, 258. 40 |
| White Swan, 2.5 miles above, on flat bottom, on left bank, opposite | |
| head of small island, 2,000 feet above large grove of trees, 0.5 | |
| mile in front of a church on bench land, 350 feet from river and | |
| 25 feet south of road; stone surmounted by iron pipe (Mo. R. | |
| Comm. b. m. 311—2), surface of stone | 1, 250. 26 |
| White Swan, 400 feet from river, 25 feet west of southwest corner of | |
| store, on small mound, on left bank; stone surmounted by iron pipe | |
| (Mo. R. Comm. b. m. 312—2), surface of stone | 1, 249. 38 |
| Fort Randall, on right bank, 25 feet west of road to river, on first | |
| bench, at northwest corner of fort; stone surmounted by iron pipe | |
| (Mo. R. Comm. b. m. 312—1), surface of stone | 1, 282. 10 |
| White Swan, 2.5 miles below, 0.5 mile below beginning of "Dug- | |
| way" or head of bottom, on left bank, on knoll in mouth of small | |
| creek, 300 feet back of road up bottom is valley, 700 feet from | |
| river; stone surmounted by iron pipe (Mo. R. Comm. b. m. 313-2), | 1 000 00 |
| surface of stone | 1, 263. 06 |
| | |

NIOBRARA QUADRANGLE.

[Latitude 42° 30'-43°; longitude 98°-98° 30'.]

From point 2.5 miles below White Swan southeast along Missouri River to Niobrara.

| AT TO DE CASE | |
|--|--|
| White Swan, 5.5 miles below, on left bank, 300 feet from river on level bottom about 500 feet above where the timber begins; stone surmounted by iron pipe (Mo. R. Comm. b. m. 314—2) surface of stone | Feet. 1, 243, 34 |
| White Swan, 5.5 miles below, about 2,000 feet back of 314—2, on long, narrow ridge, like railway grade, road along top of ridge, two shacks and grove on ridge about 700 feet above bench mark; stone surmounted by iron pipe (Mo. R. Comm. b. m. 314—3). | |
| white Swan, 8.5 miles below, on left bank, on first bench back of timber, 300 feet above two Indian shacks, road to river from bench mark; large timber runs back toward bluffs 1,000 feet above and below bench mark, 0.8 mile from river; stone surmounted by iron | |
| pipe (Mo. R. Comm. b. m. 315—2), surface of stone———————————————————————————————————— | 1, 241. 45 |
| 316—2), surface of stone | 1, 286. 20 |
| pipe (Mo. R. Comm. b. m. 317—2), surface of stone———————————————————————————————————— | TOTAL STATE |
| R. Comm. b. m. 318—2), surface of stone | |
| face of stoneYankton Indian Agency, 5.5 miles below, on left bank, on low bench in bottom, 500 feet from river, 20 feet above road to river, 1,800 | 1, 235. 98 |
| feet in front of shack and grove, three large trees near bench mark; stone surmounted by iron pipe (Mo. R. Comm. b. m. 319—2), surface of stone | |
| Yankton Indian Agency, 8.5 miles below, on left bank, on bottom about 400 feet from river, 1,000 feet above where heavy timber begins (probably in river); stone surmounted by iron pipe (Mo. R. | |
| Comm. b. m. 320—2), surface of stoneShack with grove, 0.5 mile below, 0.25 mile above beginning of timber, on left bank, near edge of bank of old slough bed which runs out to river bank 1,000 feet above bench mark; stone surmounted by | MANAGEMENT AND |
| iron pipe (Mo. R. Comm. b. m. 320—3), surface of stoneYankton Indian Agency, 11.5 miles below, on left bank, on ridge in bottom about 900 feet from river, just below where heavy timber leaves river and goes back toward bluffs; stone surmounted by iron | 1, 229. 79 |
| pipe (Mo. R. Comm. b. m. 321—2), surface of stone | 1, 227. 11 |

| Chouteau Creek, 400 feet above, on left bank, on long mound or ridge | |
|--|------------|
| in old slough bed, 400 feet below Indian shack on mound; stone | |
| | |
| surmounted by iron pipe (Mo. R. Comm. b. m. 322-2), surface | |
| of stone | 1, 239. 71 |
| Chouteau Creek, 400 feet above, 0.25 mile back of 322-2, on bench | |
| land, 1,000 feet from Chouteau Creek where road crosses it, 700 | |
| feet in front of two shacks; stone surmounted by iron pipe (Mo. R. | |
| Comm. b. m. 322-3), surface of stone | 1, 254, 33 |
| Chouteau Creek, 3 miles below, 1,000 feet above where river strikes | |
| bluffs, on left bank, on nose from bluffs above small creek; stone | |
| | |
| surmounted by iron pipe (Mo. R. Comm. b. m. 323-2), surface | |
| of stone | 1, 262, 52 |
| Grove, 1,000 feet north of, 600 feet west of another grove, 1 mile | |
| below head of bottom, about 700 feet from river, on left bank; | |
| stone surmounted by iron pipe (Mo. R. Comm. b. m. 324-2), | |
| | 1 010 00 |
| | 1, 218. 92 |
| Niobrara, near, straight back from 324—2, at foot of bluffs, 65 | |
| feet back of road along bluffs; stone surmounted by iron pipe | |
| (Mo. R. Comm. b. m. 324—3), surface of stone | 1, 228. 95 |
| | 119968 |
| TYNDALL QUADRANGLE. | |
| TINDALL QUADRANGLE. | |
| | |

[Latitude 42° 30'-43°; longitude 97° 30'-98°.]

From Niobrara northeast and east along Missouri River to point 4.5 miles above Vankton.

| Yankton. | |
|--|------------|
| Running Water, on left bank, on low bluff above coulee, opposite | |
| ferry landing, 100 feet northwest of freight house; stone sur- | |
| mounted by iron pipe (Mo. R. Comm. b. m. 326-2), surface of stone | 1, 243. 95 |
| Running Water, 75 feet east of southeast corner of Henry Brooks's | |
| store, on left bank; stone surmounted by iron pipe (Mo. R. Comm. | |
| b. m. 326—3), surface of stone | 1, 253. 53 |
| Running Water, 2.25 miles below, in bottom, on left bank, on little | |
| bench, 0.5 mile from river, several houses in coulee straight back | |
| from bench mark; stone surmounted by iron pipe (Mo. R. Comm. | |
| b. m. 327—2), surface of stone | 1, 211. 12 |
| Springfield, on left bank, 75 feet from edge of cut bluff bank, 500 feet | |
| south of Indian school, just east of fence; stone surmounted by | |
| iron pipe (Mo. R. Comm. b. m. 329-2), surface of stone) | 1, 281. 82 |
| Springfield, southwest corner of high-school yard; stone surmounted | |
| by iron pipe (Mo. R. Comm. b. m. 329-3), surface of stone | 1, 271. 72 |
| Springfield, 3.5 miles below, on left bank, on bench land, just at up- | |
| per side of mouth of Silver Creek Valley, road leads out of bottom | |
| into valley 15 feet east of bench mark; stone surmounted by iron | |
| pipe (Mo. R. Comm. b. m. 330-2), surface of stone | 1, 206. 80 |
| Bon Homme, 1.25 miles below, on left bank, back of ferry landing, | |
| 100 feet back of J. M. Cordle's house, 100 feet southeast of bridge | |
| across coulee; stone surmounted by iron pipe (Mo. R. Comm. b. m. | |
| 332—2), surface of stone | 1, 200. 68 |
| Bon Homme, 1.25 miles below, 800 feet back of 332-2, on slope | |
| on lower side of creek, in pasture; stone surmounted by iron | |
| pipe (Mo. R. Comm. b. m. 332-3), surface of stone | 1, 210. 69 |
| | |

| Mennonite Village, 0.8 mile below, on left bank, on slope to bottom | |
|--|------------|
| just above third coulee below village, 100 feet south of road at | |
| foot of bluffs; stone surmounted by iron pipe (Mo. R. Comm. b. m. | Feet. |
| 333—2), surface of stone | 1, 204, 90 |
| Antelope Point, 4 miles below, on left bank, on first bench 300 feet | |
| from river, 1,000 feet below creek, at beginning of bottom, land | |
| belongs to Mr. Ulrich; stone surmounted by iron pipe (Mo. R. | |
| Comm. b. m. 335—2), surface of stone | 1. 203. 76 |
| Antelope Point, 4 miles below, 0.25 mile back of 335—2, at foot of | 1, 200. 10 |
| | |
| bluffs on slope, 50 feet above main wagon road, on Ulrich's land; | |
| stone surmounted by iron pipe (Mo. R. Comm. b. m. 335-3), sur- | |
| face of stone | 1, 274, 50 |
| | |

YANKTON QUADRANGLE.

[Latitude 42° 30'-43°; longitude 97°-97° 30'.]

From point 4.5 miles above Yankton easterly and southeasterly along Missouri River to point 3 miles above Vermilion.

| Yankton, 4.5 miles above, on left bank, 0.8 mile in front of Yankton | |
|---|------------|
| Cement Works, 300 feet below timber to river; stone surmounted | |
| by iron pipe (Mo. R. Comm. b. m. 336-2), surface of stone | 1, 179. 30 |
| Yankton, 4.5 miles above, about 0.5 mile back of 336—2, 4 feet south | |
| of east-west fence, 500 feet west of east corner of fence, 0.25 mile | |
| in front of cement works at foot of bluffs; stone surmounted by | |
| iron pipe (Mo. R. Comm. b. m. 336—3), surface of stone | 1, 186. 92 |
| Yankton, in southwest corner of courthouse yard at corner of Fifth | |
| Street and Douglass Avenue, on left bank; stone surmounted by | |
| iron pipe (Mo. R. Comm. b. m. 337—2), surface of stone | 1, 196. 75 |
| Yankton, 3 miles below, on left bank, 8 feet south of main road from | |
| Yankton to lower bridge across James River, at point about 0.5 mile | |
| west of where road leaves old grade, in first clear strip of bottom | |
| below Yankton; stone surmounted by iron pipe (Mo. R. Comm. | |
| b. m. 338—2), surface of stone | 1, 169. 16 |
| Yankton, 3 miles below, 1,000 feet back of 338-2, just south of | |
| fence around cornfield, 800 feet in front of Mr. Frazier's house; | |
| stone surmounted by iron pipe (Mo. R. Comm. b. m. 338—3), sur- | |
| face of stone | 1, 170. 62 |
| James River, 350 feet below mouth of, on left bank, 1,000 feet from | |
| river, 0.5 mile south of house and grove of Mr. Walker, 0.5 mile | |
| west of William Esmay's house, on land of Mr. Dougherty, 600 feet | |
| south of main road to Yankton; stone surmounted by iron pipe | |
| (Mo. R. Comm. b. m. 340—2), surface of stone1 | 1, 160. 96 |
| James River, 0.25 mile due north of, near fence corner; stone sur- | |
| mounted by iron pipe (Mo. R. Comm. b. m. 340-3), surface of | |
| stone 1 | 1, 160. 95 |
| St. Helena Island, opposite a point 0.5 mile below head of, on left | |
| bank, on flat bottom, 1,000 feet from river, 700 feet northwest of | |
| house and grove; stone surmounted by iron pipe (Mo. R. Comm. | |
| b. m. 342—2); surface of stone1 | 1, 159. 16 |
| St. Helena Island, 1,000 feet back of a point opposite a point 0.5 mile | |
| below head of, 15 feet north of road to St. Helena Ferry, 400 feet | |
| east of small board shack, 0.5 mile west of frame house of Mar- | |
| keen Nelson, 2.8 miles due west of large brick house of Peter | |

| Smith; stone surmounted by iron pipe (Mo. R. Comm. b. m. | Feet. |
|---|--------------|
| 342—3), surface of stone | 1, 160. 51 |
| St. Helena Island, opposite foot of, 1,500 feet from river, on left bank, | |
| just east of line between Clay and Yankton counties, 0.8 mile south | |
| of brick house of Peter Smith, 0.5 mile southeast of white frame house of H. Smith; stone surmounted by iron pipe (Mo. R. Comm. | The state of |
| b. m. 343—2), surface of stone | 1, 157, 04 |
| Vermilion, 7.5 miles above, on left bank, 0.25 mile from river, above | _, |
| beginning of timber, 400 feet back of sawmill, 20 feet east of road | |
| to river, 1 mile above high sandhills, on river bank; stone sur- | |
| mounted by iron pipe (Mo. R. Comm. b. m. 345-2), surface of | |
| stone | 1, 149. 43 |
| Vermilion, 7.5 miles above, 0.25 mile back of 345—2, in pasture east | |
| of road, opposite house of Chris Larson, 1,000 feet south of main | |
| road to Vermilion; stone surmounted by iron pipe (Mo. R. Comm. | 1 150 00 |
| b. m. 345—2), surface of stone | 1, 152. 30 |
| ELK POINT QUADRANGLE. | |
| | 1 |
| [Latitude 42° 30′-43°; longitude 96° 30′-97.° | |
| From point 3 miles above Vermilion southeasterly along Missouri River to point | |
| 4 miles south of Jefferson. | |
| Vermilion, 3 miles above, on left bank, 300 feet east of house of Ole | |
| Temple, 1,300 feet north of main road from Vermilion; stone | |
| surmounted by iron pipe (Mo. R. Comm. b. m. 346-2), surface | 4 440 00 |
| of stone | 1, 146. 20 |
| Vermilion, in northwest corner of courthouse yard; stone surmounted by iron pipe (Mo. R. Comm. b. m. 347—2), surface of stone_ | 1 999 95 |
| Vermilion, near, on left bank, 0.5 mile from river, just below mouth | 1, 222.00 |
| of old cut-off slough, 1,800 feet north and 800 feet northeast of | |
| two white houses, in pasture land; stone surmounted by iron pipe | |
| (Mo. R. Comm. b. m. 348-2), surface of stone | 1, 136. 98 |
| Vermilion, 3 miles below, 1,600 feet from river, on left bank, just | |
| back of timber, 800 feet northeast of house, wagon road from | |
| bench mark straight north to railway, 1 mile south of school- | |
| house; stone surmounted by iron pipe (Mo. R. Comm. b. m. 349-2), | 4 400 40 |
| surface of stone | 1, 136. 46 |
| Burbank, 25 feet west of schoolhouse, on left bank, 1,000 feet north | |
| of railway; stone surmounted by iron pipe (Mo. R. Comm. b. m. 350—2), surface of stone | 1 199 79 |
| Burbank, 0.3 mile back of 350—2, just west of main road north | 1, 100. 12 |
| from Burbank, at southwest corner of first grove along road; stone | |
| surmounted by iron pipe (Mo. R. Comm. b. m. 350-3), surface of | |
| stone | 1, 132. 13 |
| Donnelly school (District No. 12), 1 mile northwest of, in NE. 1 | |
| sec. 7, T. 91, R. 50, on flat bottom, on left bank, 0.8 mile north | |
| of house of James McGonnagle, 0.5 mile northeast of J. W. Ham- | |
| mond's white house and grove; stone surmounted by iron pipe | 4 400 00 |
| (Mo. R. Comm. b. m. 351—2), surface of stone | 1, 128. 28 |
| Gude Djorlais house, 180 feet southeast of, 0.25 mile from river, | |
| 3 miles below 351—2, on left bank, in edge of cornfield, south side of road; stone surmounted by iron pipe (Mo. R. Comm. b. m. | |
| or road; stone surmounted by from pipe (Mo. R. Comm. b. m. 352—2), surface of stone | 1, 128, 88 |
| Jon -/, builded of boom | |

| Elk Point, southeast corner of courthouse yard; stone surmounted by iron pipe (Mo. R. Comm. b. m. 353—3), surface of stone | Gude Djorlais house, 0.25 mile back of 352—2, 150 feet southeast of frame house; stone surmounted by iron pipe (Mo. R. Comm. b. m. 352—3), surface of stone | Feet. 1, 128. 22 |
|--|--|---------------------|
| Elk Point, 4.5 miles south of, on left bank, on road to Ponca Ferry, in southwest corner of Pleasant Grove (District No. 20) school yard, opposite place where A. S. Bland lives; stone surmounted by iron pipe (Mo. R. Comm. b. m. 354—2), surface of stone | Elk Point, southeast corner of courthouse yard; stone surmounted by iron pipe (Mo. R. Comm. b. m. 3533), surface of stone | 1 199 11 |
| Ponca Ferry, 0.5 mile north of, on left bank, 1,000 feet east of main road to Elk Point, on Stough Farm, 200 feet south of farm buildings, Clarence Cheeny tenant; stone surmounted by iron pipe (Mo. R. Comm. b. m. 355—2), surface of stone | Elk Point, 4.5 miles south of, on left bank, on road to Ponca Ferry, in southwest corner of Pleasant Grove (District No. 20) school yard, opposite place where A. S. Bland lives; stone surmounted | |
| Ponca Landing, 3.5 miles below, opposite b. m. 356—1, on left bank, 1 mile from river, on west side of road to river, on opposite side of road from W. R. McKinsey's house; stone surmounted by iron pipe (Mo. R. Comm. b. m. 356—2), surface of stone | Ponca Ferry, 0.5 mile north of, on left bank, 1,000 feet east of main road to Elk Point, on Stough Farm, 200 feet south of farm build- | |
| 1 mile from river, on west side of road to river, on opposite side of road from W. R. McKinsey's house; stone surmounted by iron pipe (Mo. R. Comm. b. m. 356—2), surface of stone | (Mo. R. Comm. b. m. 355-2), surface of stone | 1, 120. 23 |
| Jefferson, 3 miles west of, 50 feet northwest of schoolhouse at crossroads; stone surmounted by iron pipe (Mo. R. Comm., b. m. 356—3), surface of stone | 1 mile from river, on west side of road to river, on opposite side of road from W. R. McKinsey's house; stone surmounted by iron | |
| Jefferson, near, on left bank, 6 miles by river, 2 miles across from 356—2, near fence corner, 30 feet west of road along river bank, 800 feet below house; stone surmounted by iron pipe (Mo. R. Comm. b. m. 357—2), surface of stone | Jefferson, 3 miles west of, 50 feet northwest of schoolhouse at | 1, 110. 30 |
| 356—2, near fence corner, 30 feet west of road along river bank, 800 feet below house; stone surmounted by iron pipe (Mo. R. Comm. b. m. 357—2), surface of stone | 356-3), surface of stone | 1, 116. 96 |
| Yellow house and grove, 0.8 mile below, 2.5 miles below 357—2, on left bank, north side of road, 200 feet west of bridge across slough, 400 feet from river; stone surmounted by iron pipe (Mo. R. Comm. b. m. 358—2), surface of stone | 356—2, near fence corner, 30 feet west of road along river bank, 800 feet below house; stone surmounted by iron pipe (Mo. R. | |
| Comm. b. m. 358—2), surface of stone | Yellow house and grove, 0.8 mile below, 2.5 miles below 357—2, on left bank, north side of road, 200 feet west of bridge across slough, | 1, 108. 49 |
| surface of stone | Comm. b. m. 358—2), surface of stone | .1, 108. 92 |
| north of section line, 0.25 mile from river, at end of big willow bar in bend; stone surmounted by iron pipe (Mo. R. Comm. b. m. 359—2), surface of stone | surface of stone | 1, 109. 18 |
| McCook, 400 feet south of station, on left bank, 130 feet back of schoolhouse; stone surmounted by iron pipe (Mo. R. Comm. b. m. | north of section line, 0.25 mile from river, at end of big willow bar in bend; stone surmounted by iron pipe (Mo. R. Comm. | 1, 107, 83 |
| | McCook, 400 feet south of station, on left bank, 130 feet back of schoolhouse; stone surmounted by iron pipe (Mo. R. Comm. b. m. | |

APPENDIX C.

SECONDARY ELEVATIONS.

Secondary elevations from records and topographic maps of the United States Geological Survey, including altitudes of well-known summits and other useful elevations, are given below. These elevations are approximate only and should not be used for accurate work.

| Locality. | Quadrangle. | County. | Eleva- tion. |
|--|-------------------------|-------------------------|----------------------------------|
| Antelope Butte. | Belle Fourche | Butte | Feet. 3,519 |
| Baldy Peak Battle Mountain | do Oelrichs Rapid | LawrenceFall RiverMeade | 3,610 4,431 4,422 |
| Crow Peak triangulation station | Deadwood | Lawrence | 5, 785 6, 794 |
| Deer Mountain | do | do | 6,647 |
| Elkhorn Peak triangulation station | do | do | 4,520 |
| Harney Peak triangulation station; the highest point in State yet determined | Harney Peak | Pennington | 7,242 |
| Little Crow PeakLookout Peak triangulation station | Deadwooddo | Lawrencedo | 5,888 4,485 |
| Miller Butte triangulation station | Belle Fourchedo | | 3,002 3,295 |
| Parker PeakPiedmont Butte. | Edgemont | | 4,848 4,173 |
| Richmond Hill | Deadwood | Lawrence | 6,055 |
| St. Onge Peak. Spearfish Peak. Sugarloaf Mountain. Susie Peak | Deadwood | do | 3,691 5,794 6,048 3,242 |
| Terry Peak triangulation station. Twin Buttes. Two Top Peak | Deadwood | Lawrence | 7,069 3,043 3,732 |
| White Rock. Whitewood Peak triangulation station. | Deadwooddo | | 5,286 5,138 |

INDEX.

| Page | A. | September 1 | C. | |
|--|---------------------------|-------------------|--|--|
| Alkall Spring. 27, 28 American Creek. 86 Anderson ranch. 21 Antelope Butte. 95 Antelope Point. 92 Antelope Point. 92 Anthony station. 17 Antelope Point. 92 Anthony station. 17 Argentine 24, 73 Argentine 23, 74 Argentine 23, 74 Argentine 23, 74 Argentine 24, 73 Ashley Island. 76 Ayres ranch. 96 Ayres ranch. 97 Baker ranch. 97 Baker ranch. 97 Baker ranch. 97 Baker ranch. 97 Baltic 68-69 Barber, J. C., leveling by 13 Bartholdt ranch. 95 Bear Butte 9 | | Page. | | Page |
| American Creek | Alkali Spring | 27, 28 | Caldwell H L leveling by | THE RESERVE AND PARTY NAMED IN |
| Andelope Butte | | | | |
| Antelope Point | | 21 | | |
| Antelope Point 92 Anthony station 17 Ardmore 24, 73 Argmore 24, 73 Argmore 23, 74 Argryle 23 Argryle 26 Armstrong 75 Arnold ranch 22-23 Ashley Island 76 Ayres ranch 6 Ayres ranch 6 B. 6 Babcock ranch 29 Baker ranch 37 Baldy Peak 95 Barber, J. C., leveling by 13 Bartholdt ranch 29 Bartle Mountain 95 Bear Butte 95 Bear Greek 41 Belle Fourche quadrangle 45-49 Bench marks, character of 56 Views of 57 Bennett ranch 94 Bench marks, character of 56 Bennett ranch 94 Belle Fourche quadrangle 45-49 Bench marks, character of 56 Bennett ranch 94 Bench marks, character of 57 Bennett ranch 94 Bench 94 Bench 18, 21 Bend 84-85 Bigstone City 95 Bennett ranch 94 Bench 94 Ben | | | | |
| Anthony station | | 1007 530 | | |
| Ardmore | | 100 | | |
| Argentine 23, 74 Castlewood quadrangle 61-03 Armstrong 75 Cedar ranch 31 Arnold ranch 22-23 Chamberlain 86 Ashley Island 76 Chappelle Creek 83 Ashley aranch 40 Chappelle Creek 83 Ashey aranch 20 Cheyenne Crossing 22 Babcock ranch 29 Cheyenne River 40 Chicago North Western Ry 8-9 Barber, J. C., leveling by 37 Chicago, Burlington & Quincy R. R. 14 Barber, J. C., leveling by 31 Chicago, Burlington & Quincy R. R. 14 Chicago Surlington & Quincy R. R. 14 Chicago, Milwaukee & St. Paul, Winneapolis & Omaha Ry 69 Bartholdt ranch 29 Chicago, St. Paul, Minneapolis & Omaha Ry 69 Bear Butte 95 Chickon St. Paul, Minneapolis & Omaha Ry 69 Bear Butte 95 Chickon St. Paul, Minneapolis & Omaha Ry 69 Bear Butte 95 Chickon St. Paul, Minneapolis & Omaha Ry 69 Bear Butte | | | | |
| Argyle | | | The state of the s | Committee of the Commit |
| Armstrong | | | The second secon | |
| Arnold ranch | | 2 2 2 2 | The state of the s | |
| Ashley Island | | | | |
| B. Cheyene Crossing 22 Cheyene River 40 Chicago & North Western Ry. 8-9 | | | | 4-4 |
| B. Chevenne River. 40 | | | Charles Mix County | 100 |
| Babcock ranch | Ayres ranch | 40 | | 22 |
| Babcock ranch | | | Cheyenne River | 40 |
| Babecek ranch 29 Chicago, Burlington & Quincy R. R. 14, 16-19, 22-24, 34, 37-74 Baldy Peak 95 58, 59, 61-72 Chicago, Milwaukee & St. Paul Ry. 9-11, 13 55, 59, 61-72 Barber, J. C., leveling by 13 Chicago, St. Paul, Minneapolis & Omaha Ry 69 Bartholdt ranch 29 Chicago, St. Paul, Minneapolis & Omaha Ry 69 Bear Butte 95 Chicago, St. Paul, Minneapolis & Omaha Ry 69 Bear Butte 95 Chicago, St. Paul, Minneapolis & Omaha Ry 69 Bear Butte 95 Chicago, St. Paul, Minneapolis & Omaha Ry 69 Chicago, St. Paul, Minneapolis & Omaha Ry 60 Chicago, St. Paul, Minneapolis & Omaha Ry 60 Chicago, St. Paul, Minneapolis & O | В. | 20171 | Chicago & North Western Ry | 8-9; |
| Baker ranch 37 Baldy Peak 95 Baltic 68-69 Barber, J. C., leveling by 13 Bartholdt ranch 29 Barth Mountain 95 Beart Butte 95 Bear Bardsley ranch 36 Bear Springs 27, 34, 35 Beatty ranch 38 Beaver Creek 41 Belle Fourche quadrangle 45-49 Bench marks, character of 5-6 views of 5- 5 genat 18, 21 Benentt ranch 40 Besant 18, 21 Big Bend 84-85 Bigstone City 59 Bigstone City 59 Blackhawk 43 Blair ranch 32 22 Cormbe ranch 33 Bon Homme 91 Bon Homme 91 Brennan 41 Brennan 41 Brennan 41 Brennan 41 | | | 15, 37, 42, 43, | 64, 82 |
| Baker ranch 37 Baldy Peak 95 Baltic 68-69 Barber, J. C., leveling by 13 Bartholdt ranch 29 Barth Mountain 95 Beart Butte 95 Bear Bardsley ranch 36 Bear Springs 27, 34, 35 Beatty ranch 38 Beaver Creek 41 Belle Fourche quadrangle 45-49 Bench marks, character of 5-6 views of 5- 5 genat 18, 21 Benentt ranch 40 Besant 18, 21 Big Bend 84-85 Bigstone City 59 Bigstone City 59 Blackhawk 43 Blair ranch 32 22 Cormbe ranch 33 Bon Homme 91 Bon Homme 91 Brennan 41 Brennan 41 Brennan 41 Brennan 41 | Babcock ranch | 29 | Chicago, Burlington & Quincy R. R. | . 14: |
| Baldy Peak | Baker ranch | 37 | | 73-74 |
| Baltic 68-69 Barber, J. C., leveling by 13 Bartholdt ranch 29 Battle Mountain 95 Bear Butte 95 Bear Butte 95 Bear Springs 27, 34, 35 Beat Springs 27, 34, 35 Beaty Panch 38 Beaver Creek 41 Belle Fourche 48 Belle Fourche quadrangle 45-49 Bench marks, character of 5-6 views of 5 Bennett ranch 40 Bessant 18, 21 Cold Springs 18, 21 Cold Springs 18, 21 Combe ranch 24 Bigs Bend 84-85 Bigstone City 59 Bidschawk 43 Bidr ranch 37 Browns ranch 22 <td></td> <td>95</td> <td></td> <td></td> | | 95 | | |
| Barber, J. C., leveling by 13 Chicago, St. Paul, Minneapolis & Omaha Ry 69 Battle Mountain 95 Chicot Island 89 Bear Butte 95 Chilson 23 Bear Springs 27, 34, 35 Chouteau Creek 91 Bearty ranch 38 Chouteau Creek 91 Beatty ranch 38 Chouteau Creek 91 Bearty ranch 38 Chouteau Creek 91 Beatty ranch 38 Chouteau Creek 91 Belle Fourche 41 Chouteau Creek 91 Belle Fourche 41 Cold Carls 36 Belle Fourche 45 49 Belle Fourche 45 49 Bennett ranch 45 40 Big Bend | | 68-69 | | |
| Bartholdt ranch 29 Omaha Ry 69 Battle Mountain 95 Chicot Island 89 Bear Butte 95 Chicot Island 89 Bear Springs 27, 34, 35 Chouteau Creek 91 Bear Springs 27, 34, 35 Clark ranch 38 Beatty ranch 38 Clark ranch 38 Beatty ranch 48 Clark county 8, 75 Beaver Creek 41 Chickenbeard ranch 36 Belle Fourche 48 Coast and Geodetic Survey, elevations from 36 Views of 5-6 Coddington County 58 Bennett ranch 40 Springs 18, 21 Bennett ranch 40 Cold Springs 18, 21 Cold Springs 18, 21 Cold Springs 18, 21 Big Bend 84-85 Bigstone City 59 Enother 20 Birdseye, C. H., leveling by 45 Corps of Enineers, U. S. A., elevations from 8, 75 Blackhawk 43 Cottonwood Creek | | | | - |
| Battle Mountain | | | | 69 |
| Bear Butte 95 Chilson 23 Beardsley ranch 36 Chouteau Creek 91 Bear Springs 27, 34, 35 Clark ranch 38 Beatty ranch 38 Clay County 8, 75 Beaver Creek 41 Chickenbeard ranch 36 Belle Fourche 48 Coast and Geodetic Survey, elevations from 56 Belle Fourche quadrangle 45-49 Coast and Geodetic Survey, elevations from 58 Bennett ranch 40 Seant 18, 21 Begstone City 59 Cold Springs 18, 21 Begstone City 59 Combe ranch 38 Bijou Hills 87 Stromp of Enineers, U. S. A., elevations from 8, 75 Biliar ranch 37 Corbon County 75 Black hawk 43 Cottonwood Creek 40 | | 1000 | | 7.7 |
| Bear Springs | | 12.00 | | |
| Bear Springs 27, 34, 35 Clark ranch 38 Beatyr ranch 38 Clay County 8, 75 Beaver Creek 41 Chickenbeard ranch 36 Belle Fourche 48 Cost and Geodetic Survey, elevations from 5, 8, 13, 45 58-75 Belle Fourche quadrangle 45-49 tions from 5, 8, 13, 45 58-75 Bennet ranch 40 Coddington County 58 Bennett ranch 40 Sesant 18, 21 Big Bend 84-85 Cole ranch 24 Bigstone City 59 Combe ranch 38 Bigstone City 59 Combe ranch 38 Blackhawk 43 Corps of Enineers, U. S. A., elevations from 8, 75 Blackhawk 43 Cottonwood Creek 40 Blair ranch 37 Cottonwood Creek 40 Blair ranch 22 Crow Creek Indian Agency 83 Blue Blanket Island 77 Crow Peak triangulation station 95 Brennan 41 Bryant 6 <td></td> <td>0.00</td> <td></td> <td></td> | | 0.00 | | |
| Beatty ranch 38 Clay County 8, 75 Beaver Creek 41 Chickenbeard ranch 36 Belle Fourche 48 Coast and Geodetic Survey, elevations from 5, 8, 13, 45 58-75 Belle Fourche quadrangle 45-49 tions from 5, 8, 13, 45 58-75 Bench marks, character of 5-6 Coddington County 58 views of 5 Cold Springs 18, 21 Bennett ranch 40 Cole ranch 24 Besant 18, 21 Colman 67 Big Bend 84-85 Combe ranch 38 Bigstone City 59 Corps of Enineers, U. S. A., elevations from 38 Bigstone City 59 Corps of Enineers, U. S. A., elevations from 8, 75 Bigstone City 45 Corps of Enineers, U. S. A., elevations from 8, 75 Bigstone City 45 Coron County 75 Blackhawk 43 Coron County 8, 75 Blackhawk 43 Coron County 83 Bloe Rolle | | | | |
| Beaver Creek 41 Chickenbeard ranch 36 Belle Fourche 48 Coast and Geodetic Survey, elevations from 5, 8, 13, 45 58-75 Belle Fourche quadrangle 45-49 tions from 5, 8, 13, 45 58-75 Bench marks, character of 5-6 Coddington County 58 Views of 5 Cold Springs 18, 21 Bennett ranch 40 Besant 24 Besant 18, 21 Colman 67 Big Bend 84-85 Colman 67 Bigstone City 59 Corps of Enineers, U. S. A., elevations from 8, 75 Birdseye, C. H., leveling by 45 Corps of Enineers, U. S. A., elevations from 8, 75 Birdseye, C. H., leveling by 45 Cottonwood Creek 40 Blair ranch 37 Cottonwood Creek 40 Blair ranch 37 Crow Creek Indian Agency 83 Blue Blanket Island 77 Crow Peak triangulation station 95 Born Homme 91 Custer County 13 Brennan | | | | - 77 |
| Belle Fourche 48 Coast and Geodetic Survey, elevations from 5, 8, 13, 45 58-75 Belle Fourche quadrangle 45-49 tions from 5, 8, 13, 45 58-75 Bench marks, character of 5-6 tions from 5, 8, 13, 45 58-75 Views of 5 Cold Springs 18, 21 Bennett ranch 40 Cole ranch 24 Besant 18, 21 Cole ranch 28 Bigstone City 59 Combe ranch 38 Bigstone City 59 Corps of Enineers, U. S. A., elevations from 8, 75 38 Bigdespe, C. H., leveling by 45 Corson County 75 Blackhawk 43 Cottonwood Creek 40 Blair ranch 37 Cramer ranch 33 Blue Blanket Island 77 Crow Creek Indian Agency 85 Bow Homme County 8, 75 Custer Couster 25-26 Bowman ranch 36 Custer Couster Peak triangulation station 95 Brennan 41 Bryant 63 Deadwood 14, 16 Br | | | | |
| Belle Fourche quadrangle | | 100 | | 36 |
| Bench marks, character of views of series o | | The second second | | |
| views of 5 Cold Springs 18, 21 Bennett ranch 40 Cole ranch 24 Besant 18, 21 Cole ranch 24 Big Bend 84-85 Colman 67 Big Bend 84-85 Colman 38 Bigstone City 59 Corone County 38 Bijou Hills 87 Korson County 75 Bickhawk 43 Corson County 75 Black ranch 32 Coron County 75 Blue Blanket Island 77 Corow Creek Indian Agency 83 Blue Blanket Island 77 Crow Peak triangulation station 95 Bon Homme 91 Cow Peak triangulation station 95 Bowman ranch 36 Custer County 13 Brennan 41 Custer Peak triangulation station 95 Bryant 65 Boyton ranch 19 Bryant 68 Boyton ranch 19 Buffalo County 75 Box 10 | | | tions from_ 5, 8, 13, 45 | 58-75 |
| Bennett ranch 40 Cole ranch 24 Besant 18, 21 Colman 67 Big Bend 84-85 Combe ranch 38 Bigstone City 59 Corps of Enineers, U. S. A., elevations from 8, 75 Bijou Hills 87 Corps of Enineers, U. S. A., elevations from 8, 75 Birdseye, C. H., leveling by 45 Corson County 75 Blackhawk 43 Cottonwood Creek 40 Blair ranch 37 Cramer ranch 33 Block ranch 22 Crow Creek Indian Agency 85 Blue Blanket Island 77 Crow Oreak triangulation station 95 Bon Homme 91 Crow Peak triangulation station 95 Brennan 41 Custer County 13 Brennan 45 Deadwood 14 Bryant 63 Dayton ranch 19 Bryant 63 Deadwood 14, 16 Buffalo County 75 Deedwood quadrangle 14-22 Bu | Bench marks, character of | 5-6 | Coddington County | 58 |
| Besant 18, 21 Colman 67 Big Bend 84-85 Combe ranch 38 Bigstone City 59 Corps of Enineers, U. S. A., elevations from 8, 75 Bijou Hills 87 tions from 8, 75 Birdseye, C. H., leveling by 45 Corson County 75 Blackhawk 43 Cottonwood Creek 40 Blair ranch 37 Cramer ranch 33 Blue Blanket Island 77 Crow Creek Indian Agency 83 Blue Blanket Island 77 Crow Peak triangulation station 95 Bon Homme 91 Cover Peak triangulation station 95 Brennan 41 Custer County 13 Brenhan 41 Custer Peak triangulation station 95 Brownsville 17 Datum, definition of 6 Bryant 63 Dayton ranch 19 Bryant 63 Deadwood 14, 16 Buffalo County 75 Deadwood quadrangle 14-22 | views of | 5 | Cold Springs | 18, 21 |
| Big Bend 84-85 Combe ranch 38 Bigstone City 59 Corps of Enineers, U. S. A., eleva-tions from 8,75 Bijou Hills 87 tions from 8,75 Birdseye, C. H., leveling by 45 Corson County 75 Blackhawk 43 Cottonwood Creek 40 Blair ranch 37 Cramer ranch 33 Bloek ranch 22 Crow Creek Indian Agency 85 Blue Blanket Island 77 Crow Peak triangulation station 95 Bon Homme 91 Crow Peak triangulation station 95 Bowman ranch 36 Custer County 13 Bright, M. S., leveling by 45 Custer Peak triangulation station 95 Brown sville 17 Datum, definition of 6 Bryant 63 Dayton ranch 19 Bryant 63 Deadwood 14, 16 Buck Spring 28-29 Deadwood quadrangle 14-22 Buffalo County 75 Deer Mountain 95 | Bennett ranch | 40 | Cole ranch | 24 |
| Bigstone City 59 Corps of Enineers, U. S. A., elevabigou Hills 87 Birdseye, C. H., leveling by 45 Corson County 75 Blackhawk 43 Cottonwood Creek 40 Blair ranch 37 Coramer ranch 33 Block ranch 22 Crow Creek Indian Agency 85 Blue Blanket Island 77 Crow Oreek Indian Agency 85 Bon Homme 91 Crow Peak triangulation station 95 Bon Homme County 8, 75 Custer County 13 Brennan 41 Custer County 13 Bright, M. S., leveling by 45 Custer Peak triangulation station 95 Brown ranch 22 D D Brown syille 17 Datum, definition of 6 Bryant 68 Buyton ranch 19 Bryant 68 Dadwood quadrangle 14-12 Buffalo County 75 Deer Mountain 95 Buffalo Gap 41, 42 Deer Mountain 95 < | Besant | 18, 21 | Colman | 67 |
| Bijou Hills 87 tions from 8,75 Birdseye, C. H., leveling by 45 Corson County 75 Blackhawk 43 Cottonwood Creek 40 Blair ranch 37 Cramer ranch 33 Block ranch 22 Crow Creek Indian Agency 85 Blue Blauket Island 77 Crow Peak triangulation station 95 Bon Homme 91 Crow Peak triangulation station 95 Bowman ranch 36 Custer County 13 Brennan 41 Custer Peak triangulation station 95 Brown ranch 22 D D Brownsyille 17 Datum, definition of 6 Bryant 63 Dayton ranch 19 Bryant 63 Deadwood 14, 16 Buck Spring 28-29 Deer Mountain 95 Buffalo County 75 Deer Mountain 95 Buffalo gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, | Big Bend | 84-85 | Combe ranch | 38 |
| Bijou Hills 87 tions from 8,75 Birdseye, C. H., leveling by 45 Corson County 75 Blackhawk 43 Cottonwood Creek 40 Blair ranch 37 Cramer ranch 33 Block ranch 22 Crow Creek Indian Agency 85 Blue Blauket Island 77 Crow Peak triangulation station 95 Bon Homme 91 Crow Peak triangulation station 95 Bowman ranch 36 Custer County 13 Brennan 41 Custer Peak triangulation station 95 Brown ranch 22 D D Brownsyille 17 Datum, definition of 6 Bryant 63 Dayton ranch 19 Bryant 63 Deadwood 14, 16 Buck Spring 28-29 Deer Mountain 95 Buffalo County 75 Deer Mountain 95 Buffalo gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, | Bigstone City | 59 | Corps of Enineers, U. S. A., eleva- | |
| Birdseye, C. H., leveling by 45 Corson County 75 Blackhawk 43 Cottonwood Creek 40 Blair ranch 37 Cramer ranch 33 Block ranch 22 Crow Creek Indian Agency 85 Blue Blanket Island 77 Crow Creek Indian Agency 85 Bon Homme 91 Crow Peak triangulation station 95 Bon Homme County 8, 75 Custer Custer 25-26 Bowman ranch 36 Custer Peak triangulation station 95 Brown ranch 22 D. Deadwood rangulation station 95 Brown ranch 22 Datum, definition of 6 Dayton ranch 19 Bryant 63 Dayton ranch 19 Deadwood 14, 14 Buck Spring 28-29 Deadwood quadrangle 14-22 Buffalo County 75 Deer Mountain 95 Buffalo Gap 41, 42 Deere Mountain 95 Bulldog ranch 14, 18-19, 22 Dell Rapids <td< td=""><td></td><td>87</td><td></td><td>8, 75</td></td<> | | 87 | | 8, 75 |
| Blackhawk 43 Cottonwood Creek 40 Blair ranch 37 Cramer ranch 33 Block ranch 22 Crow Creek Indian Agency 83 Blue Blanket Island 77 Crow Dreek Indian Agency 83 Bon Homme 91 Crow Peak triangulation station 95 Bon Homme County 8, 75 Custer 25-26 Bowman ranch 36 Custer County 13 Brennan 41 Custer Peak triangulation station 95 Brown ranch 22 D D Brown swille 17 Datum, definition of 6 Bryant 63 Dayton ranch 19 Bryant 63 Deadwood 14, 16 Buffalo County 75 Deadwood quadrangle 14-22 Buffalo Gap 41, 42 Deer Mountain 95 Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Devils Island 79-80, 84 | | 45 | | |
| Blair ranch 37 Cramer ranch 33 Block ranch 22 Crow Creek Indian Agency 83 Blue Blanket Island 77 Crow Neak triangulation station 95 Bon Homme 91 Crow Peak triangulation station 95 Bowman ranch 36 Custer 25-26 Bowman ranch 36 Custer County 13 Bright, M. S., leveling by 45 Custer Peak triangulation station 95 Brown ranch 22 D D Brown swille 17 Brule County 5 Datum, definition of 6 Bryant 63 Boyton ranch 19 Deadwood 14, 16 Buck Spring 28-29 Deadwood quadrangle 14-22 Buffalo County 75 Deer Mountain 95 Buffalo Gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Denis 79-80, 84 | | 43 | | |
| Block ranch 22 Crow Creek Indian Agency 85 Blue Blanket Island 77 Crownhill 17 Bon Homme 91 Crow Peak triangulation station 95 Bon Homme County 8,75 Custer 25-26 Bowman ranch 36 Custer County 13 Brennan 41 Custer Peak triangulation station 95 Bright, M. S., leveling by 45 Custer Peak triangulation station 95 Brown ranch 22 D D Brown swille 17 Datum, definition of 6 Bryant 68 Dayton ranch 19 Bryant 68 Deadwood 14, 16 Buck Spring 28-29 Deadwood quadrangle 14-22 Buffalo County 75 Deer Mountain 95 Buffalo Gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Denis 79-80, 84 | | 37 | | |
| Blue Blanket Island | | 10000 | | |
| Bon Homme 91 Crow Peak triangulation station 95 Bon Homme County 8, 75 Custer 25-26 Bowman ranch 36 Custer County 13 Brennan 41 Custer Peak triangulation station 95 Brown ranch 22 D D Brown ranch 22 D D Brownsville 17 Brule County 75 Datum, definition of 6 Bryant 63 Dayton ranch 19 Dayton ranch 19 Buck Spring 28-29 Deadwood 14, 14, 14, 14, 14, 14, 14, 14, 14, 14, | | A STATE OF | | |
| Bon Homme County 8, 75 Custer 25-26 Bowman ranch 36 Custer County 13 Brennan 41 Custer Peak triangulation station 95 Brown ranch 22 D. Brownsville 17 Brule County 75 Brule Indian Agency 86 Dayton ranch 19 Bryant 63 Deadwood 14, 16 Buck Spring 28-29 Deadwood quadrangle 14-22 Buffalo County 75 Deer Mountain 95 Buffalo Gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Dennis 73-80 Butte County 45, 95 Devils Island 79-80, 84 | | | | |
| Bowman ranch 36 Custer County 13 Brennan 41 Custer Peak triangulation station 95 Bright, M. S., leveling by 45 D Brown ranch 22 D Brownsville 17 Datum, definition of 6 Brule County 86 Dayton ranch 19 Bryant 63 Deadwood 14, 16 Buck Spring 28-29 Deadwood quadrangle 14-22 Buffalo County 75 Deer Mountain 95 Buffalo Gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Dennis 73 Butte County 45, 95 Devils Island 79-80, 84 | Don Homme County | | | |
| Brennan 41 Custer Peak triangulation station 95 Bright, M. S., leveling by 45 D. Brown ranch 22 D. Brownsville 17 Datum, definition of 6 Brule County 75 Datum, definition of 6 Bryant 63 Dayton ranch 19 Buck Spring 28-29 Deadwood 14, 16 Buck Spring 28-29 Deadwood quadrangle 14-22 Buffalo County 75 Deer Mountain 95 Buffalo Gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Dennis 73 Butte County 45, 95 Devils Island 79-80, 84 | | 1 1 1 1 1 1 1 1 1 | | |
| Bright, M. S., leveling by 45 Brown ranch 22 Brownswille 17 Brule County 75 Brule Indian Agency 86 Bryant 63 Buck Spring 28-29 Buffalo County 75 Buffalo Gap 41, 42 Bulldog ranch 14, 18-19, 22 Bulldog ranch 14, 18-19, 22 Burbank 93 Butte County 45, 95 Devils Island 79-80, 84 | | 1979 | | |
| Brown ranch 22 D. Brownsyille 17 Brule County 75 Brule Indian Agency 86 Bryant 63 Buck Spring 28-29 Buffalo County 75 Buffalo Gap 41, 42 Bulldog ranch 14, 18-19, 22 Burbank 93 Butte County 45, 95 Desadwood 14, 18-19, 22 Deer Mountain 95 Dell Rapids 68 Dennis 73 Butte County 45, 95 Devils Island 79-80, 84 | | | Custer Feak triangulation station | 95 |
| Brownsville 17 Brule County 75 Brule Indian Agency 86 Bryant 63 Bryant 63 Buck Spring 28-29 Buffalo County 75 Buffalo Gap 41, 42 Bulldog ranch 14, 18-19, 22 Burbank 93 Butte County 45, 95 Devils Island 79-80, 84 | | | AND THE PERSON NAMED IN | |
| Brule County 75 Datum, definition of 6 Brule Indian Agency 86 Dayton ranch 19 Bryant 63 Deadwood 14, 16 Buck Spring 28-29 Deadwood quadrangle 14-22 Buffalo County 75 Deer Mountain 95 Buffalo Gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Dennis 73 Butte County 45, 95 Devils Island 79-80, 84 | | 1 | D. O. C. | |
| Brule Indian Agency 86 Dayton ranch 19 Bryant 63 Deadwood 14, 16 Buck Spring 28-29 Deadwood quadrangle 14-22 Buffalo County 75 Deer Mountain 95 Buffalo Gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Dennis 73 Butte County 45, 95 Devils Island 79-80, 84 | | | | THE PLE |
| Bryant 63 Deadwood 14, 16 Buck Spring 28-29 Deadwood quadrangle 14-22 Buffalo County 75 Deer Mountain 95 Buffalo Gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Dennis 73 Butte County 45, 95 Devils Island 79-80, 84 | | | | |
| Buck Spring 28-29 Deadwood quadrangle 14-22 Buffalo County 75 Deer Mountain 95 Buffalo Gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Dennis 73 Butte County 45, 95 Devils Island 79-80, 84 | | | | |
| Buffalo County 75 Deer Mountain 95 Buffalo Gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Dennis 73 Butte County 45, 95 Devils Island 79-80, 84 | | The second second | | |
| Buffalo Gap 41, 42 Degrey quadrangle 83-85 Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Dennis 73 Butte County 45, 95 Devils Island 79-80, 84 | | 28-29 | | 14-22 |
| Bulldog ranch 14, 18-19, 22 Dell Rapids 68 Burbank 93 Dennis 73 Butte County 45, 95 Devils Island 79-80, 84 | | | | |
| Burbank 93 Dennis 73 Butte County 45, 95 Devils Island 79-80, 84 | Buffalo Gap | 41, 42 | Degrey quadrangle | 83-85 |
| Burbank 93 Dennis 73 Butte County 45, 95 Devils Island 79-80, 84 | Bulldog ranch 14, 18- | 19, 22 | Dell Rapids | 68 |
| Butte County 45, 95 Devils Island 79-80, 84 | | The second second | | 73 |
| | | 45, 95 | | -80, 84 |
| | 29392°—Bull, 643—16—7 | The state of | 07 | |

| Page. | H. | |
|--|--|--------|
| | | Page. |
| Development | Hadler H M leveling by | 45 |
| Dewey County 75 | Hadley, H. M., leveling by | 58 |
| Ditch Creek 35 | Hamlin County | |
| Ponnelly school 93 | Hare ranch | 38 |
| Pouglas, E. M., work of 5 | Harney Peak quadrangle | |
| Dowe ranch 39 | Harney Peak triangulation station | 95 |
| Drew ranch 29 | Harney schoolhouse | 36 |
| Dumont 14 | Harrisburg | 70 |
| Durex Island 87-88 | Harrison Flat schoolhouse | 40 |
| | Harvey ranch | 44 |
| Dwyer ranches 34, 36 | Hayward | 37 |
| | | 62 |
| E. | Hazel | |
| 99 94 79 74 | Hell Canyon | |
| Edgemont 23, 24, 73-74 | Henderson ranch | 27 |
| Edgemont quadrangle 22-25, 73-74 | Hermosa | 38, 41 |
| Egan 67-68 | Hermosa quadrangle | 36-41 |
| Eighteen Mile ranch 30 | Herrick quadrangle | |
| Elevations, secondary 95 | Highland ranch | 39 |
| Elk Creek station 17 | Hill City | |
| Elkhorn Peak triangulation station 95 | The state of the s | |
| Elk Point 71-72, 94 | Horgan ranch | 30 |
| Elk Point quadrangle 12-13, 71-72, 94-95 | Hot Springs | 42 |
| | Hudson | 71 |
| Jam Orcan | Hudson quadrangle | 70-71 |
| Elmore 17, 22 | Hughes County | 75 |
| Englewood 14, 17 | Hurley | 9 |
| Erskine 22 | Hutchinson County | 8 |
| Erwin 64 | | 75 |
| Estes ranch 44 | Hyde County | 10 |
| 4Deco Tanana | The second secon | |
| F | I. | |
| | Control of the Contro | |
| Fairbank 79 | Ireland ranch | 20 |
| Fairburn 38, 39, 41 | Irene | 10 |
| Fairview 70-71 | Irvine, Chester, leveling by | 45 |
| Fall River County 58, 95 | Ivanhoe | 22 |
| | Tvannoe | |
| parmer ranching | and the same of th | |
| Fay ranch 38 | J. | |
| Forest City 78-79 | | - |
| Forestville60 | Jackson ranch | _ 33 |
| Fort Bennett 80 | James quadrangle | 72 |
| Fort Bennett quadrangle 79-81 | James River | 92 |
| Fort Hale 85-86 | Jefferson 13, | 72.94 |
| Fort Pierre 82 | Jim Creek | 44 |
| Fort Randall 89 | Johnson ranch | |
| Fort Sully 80-81 | Johnson Fanch | 21, 00 |
| Fourmile 32 | Charles of the same of the sam | |
| Tour mire | К. | |
| Freeman 10 | The second secon | |
| | Kavanagh, A. J., leveling by | 53 |
| G. | Kenoyer ranch | 38 |
| Cannett S S, work of 5 | Keystone | 36 |
| Gamett, S. S., II see | Kingsbury County | 58 |
| General Brooks Island 87 | Kinney ranch | 21 |
| Gillette Canyon 28 | Kirk | 14 |
| Gillette ranch 33 | MITK | 11 |
| Glendale 37 | | |
| Glenham quadrangle 75-77 | L. | |
| Gottschalk, L. F., leveling by 13 | | |
| Gould ranch 39 | La Follette ranch | 87 |
| Tourd Tanch | La Grace | 76 |
| Gramberg ranchi | Lake Andes quadrangle | 88-89 |
| Grand Itiver | Lake Preston | |
| Grant County 58 | Lake Preston quadrangle | |
| Great Northern Ry 60-62 | | 38 |
| Greenwood 20-21 | Laning ranch | |
| Gregory County 75 | Lawrence County13, | 40, 95 |
| Grimley ranch 39 | Le Beau | 77 |
| Grove 91 | Le Beau quadrangle | |
| Grover 61-62 | Leveling, classification of | 5 |
| WIO161 | | |

| Page. | Page. |
|---------------------------------------|--|
| Leveling, primary, character of 5 | Oliver 11 |
| elevations by 8-57 | Oliver quadrangle 11-12 |
| Lincoln County 8, 58 | Olson Creek 76 |
| Lindsay ranch 31 | Oreville Z5 |
| Little Crow Peak 95 | Ortonville quadrangle 59 |
| Lookout Peak triangulation station 95 | Otey ranch 39 |
| Loring siding 26 | |
| Lyman County 75 | P. |
| M. | Pactola 19-20, 44 |
| McAdam ranch 36 | Parker 9 |
| McBeath ranch 30-31 | Parker quadrangle 9-11 |
| McClelland ranch 38 | Parker Peak 95 |
| McCook 72, 94 | Parker ranch 39 |
| McDonald ranch 44 | Peever quadrangle 54-55 |
| McMinn 37 | Pennington County 13, 95 |
| McNown ranch 37 | Perry17 Personnel, details of5 |
| McVey ranch 39 | Personnel, details of 5 Peterson Bottom 87 |
| Madison 66-67 | Peterson Creek 86 |
| Mahnke ranch 33 | Peterson ranch 19, 27, 38 |
| Maitland 23 | Piedmont 43 |
| Maps, topographic, list of 7 | Piedmont Butte 95 |
| Marietta 23, 74 | Pierre 82 |
| Marsh ranch 32 | Pleasant View ranch 26 |
| Martin Valley ranch 39 | Ponca Ferry 94 |
| Maurice | Portland 17 |
| Meade County 13, 45, 95 | Portuguese siding 17 |
| Melvin siding 41 | Potter County 75 |
| Menno 11 | Pratt ranch 44 |
| Mennonite 92 | Preacher Spring 34 |
| Merritt 19, _0 | Primary leveling, character of 5 |
| Milbank 59 | elevations by 8-57 Pringle 26, 36 |
| Milbank quadrangle 59 | Provo 24, 73 |
| Miller Butte triangulation station 95 | 21, 13 |
| Milltown 12 | R. |
| Minnehaha County 58 | |
| Minnekahta 22 | Ramona 65-66 |
| Missouri River Commission, eleva- | Rapid 43 |
| tions from 5, 8, 75–94 | Rapid quadrangle 43-44 |
| Moody County 58 Moon ranch 35 | Rassmussen ranch 19 |
| Morris ranch 40 | Ray ranch 38 Redfern 15, 25 |
| Moss Agate Creek 23 | Renner 69 |
| Mowatts siding 16 | Reservation Bridge 56 |
| Mud Butte triangulation station 95 | Reynolds ranch 21, 31-32 |
| Murphy ranch 38 | Rhodes ranch 88 |
| Myers siding 43 | Richardson ranch 30, 36, 39 |
| Mystic 15 | Richmond Hill 95 |
| N. | Riley ranch 20, 44 |
| | Roberts County 53, 58 |
| Nahant 15 | Rochford15 |
| Nasby19 | Rockerville 37 |
| Nelson ranch 21, 39 Nemo 20 | Rosbolt 57 |
| New Effington quadrangle 53-54 | Rousseau 82–83 Rumford 24, 73 |
| Newell quadrangle 49-53 | Runkel 16 |
| Niobrara 91 | Running Water 91 |
| Niobrara quadrangle 90-91 | 01 |
| | s. |
| 0. | |
| Oacoma quadrangle 85-87 | St. Dorion Island 83-84 |
| Oelrichs quadrangle 42 | St. Helena Island 92-93 |
| Okobojo quadrangle 78-79 | St. Page 48 |
| Oldham 65 | St. Page Peak 95 |
| | |

| | Page. | | Page. |
|--------------------------------------|-----------------------|--|--|
| Schick ranch | 21 | Twin Buttes | _ 95 |
| Sea level, mean, definition of | 6 | Two Top Peak | |
| Scranton | 77-78 | Tyler, Alfred, leveling by | _ 8 |
| Sheridan | 36 | Tyndall quadrangle | _ 91 |
| Silver City | 19 | | |
| Simpson ranch | 33 | U. | |
| Sioux Falls | 69 | | |
| Sioux Falls quadrangle | 67-69 | Union County | 8, 58, 75 |
| Sisseton quadrangle | 55 | | 1 |
| Slate Creek schoolhouse | 21 | v. | |
| Small Creek valley | 77 | | |
| Smith ranch 33 | , 38, 40 | Vanderbilt | _ 76 |
| Sonora Island | 87 | Vermilion | _ 93 |
| South Dakota, previous publications | STATE OF THE PARTY OF | Vienna | |
| on | 5 | Vohmer ranch | _ 40 |
| South Shore | 60 | Vonderlehr ranch | |
| South Shore quadrangle | 60 | | |
| Spearfish 17- | -18, 22 | w. | |
| Spearfish Peak | 95 | | |
| Spokane | 38 | Wakonda | _ 9 |
| Spring Creek 37, | 41, 79 | Walworth County | |
| Springfield | 91 | Ward ranch | |
| Stanley | 82 | Watertown | |
| Stanley County | 75 | Waubay quadrangle | _ 60 |
| Stephan quadrangle | 85 | Wentworth | |
| Stewart, J. T., leveling by | 13 | Wetzell ranch | |
| Stinger ranch | 40 | Wheeler | |
| Stockholm | 60 | Wheeler Ferry | |
| Stony Hill triangulation station | 81 | White River | |
| Sturgis 15, | 16, 43 | White Rock 5 | |
| Sugarloaf Mountain | 95 | White Rock quadrangle 5 | |
| Sullivan ranch | 30 | White Swan | |
| Sully County | 75 | Whitewood | The same of the sa |
| Sundance quadrangle | 44 | Whitewood Peak triangulation sta | |
| Susie Peak | 95 | tion | |
| | 120 131 | Wind Cave ranch | |
| T. | 11 | Winona | |
| Charles and the second second second | 14 | Wood ranch | |
| Terry | 17 | Woodville | |
| Terry Peak | 95 | Woodward ranch | |
| Thompson ranch | 35 | Worthington, C. E., leveling by | |
| Thowell ranch | 21 | Wray, D. C., leveling by | |
| Three V ranch | 48 | Wright ranch | |
| Tilford | 43 | | |
| Tinsley ranch | 36 | Y. | |
| Topographic maps, list of | 7 | TO SERVICE CARRIED AND SERVICE | |
| Traft ranch | 20 | Y 4 ranch | _ 32 |
| Trent | 68 | Yankton | 8, 75, 92 |
| Turner County | 8 | Yankton Indian Reservation | _ 89, 90 |
| Twinbrooks | 60 | Yankton quadrangle | |
| | | | |



