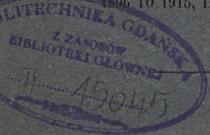
DEPARTMENT OF THE INTERIOR FRANKLIN K. LANE, Secretary

UNITED STATES GEOLOGICAL SURVEY
GEORGE OTIS SMITH, Director

BULLETIN 643

SPIRIT LEVELING IN SOUTH DAKOTA

1896 TO 1915, INCLUSIVE

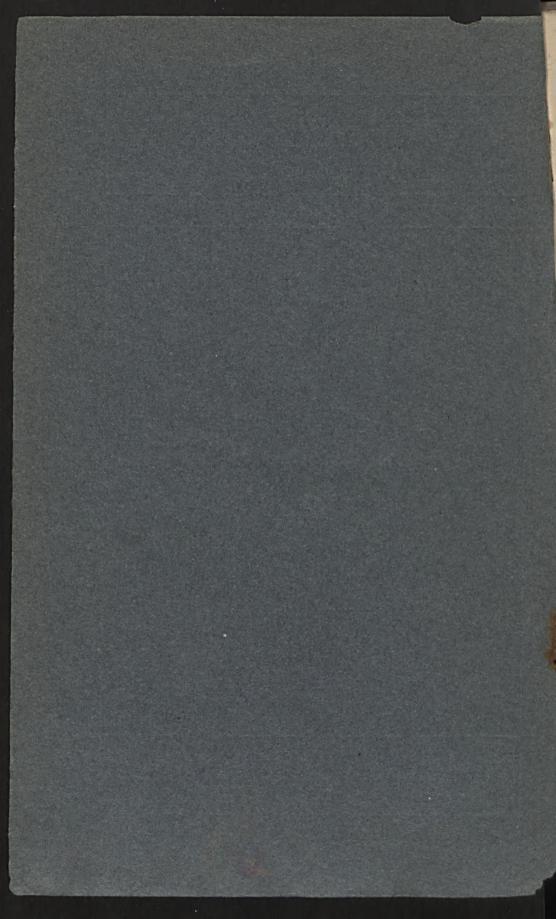


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R. B. MARSHALL, CHIEF GEOGRAPHER



WASHINGTON
GOVERNMENT PRINTING OFFICE
1916



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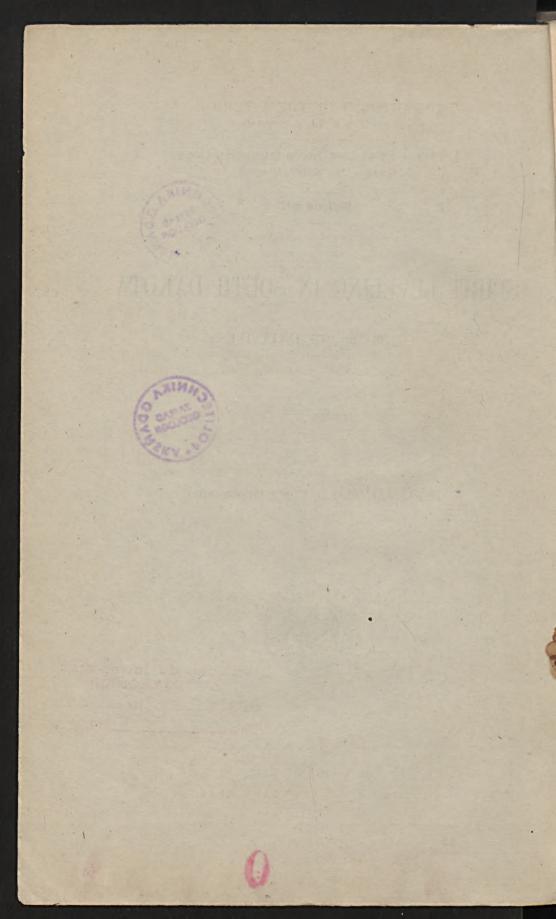
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CONTENTS.

· VAST
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	

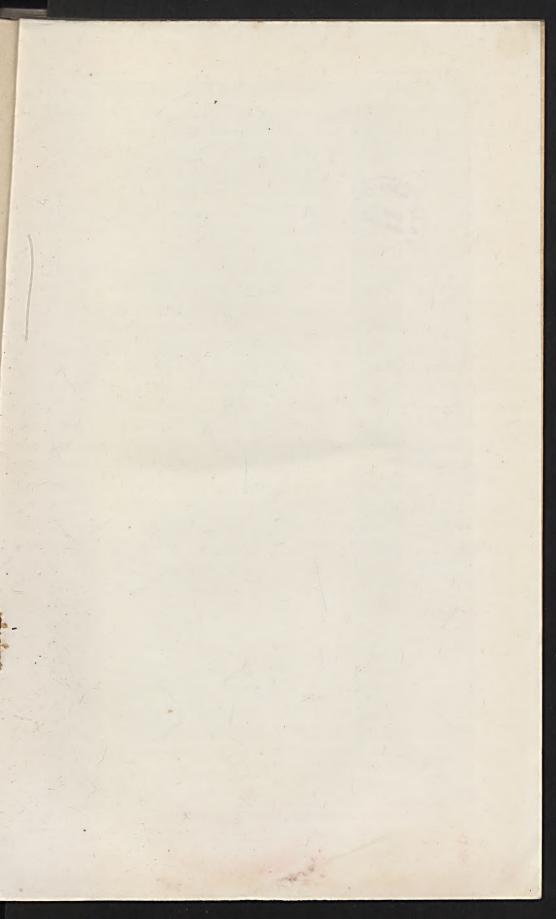


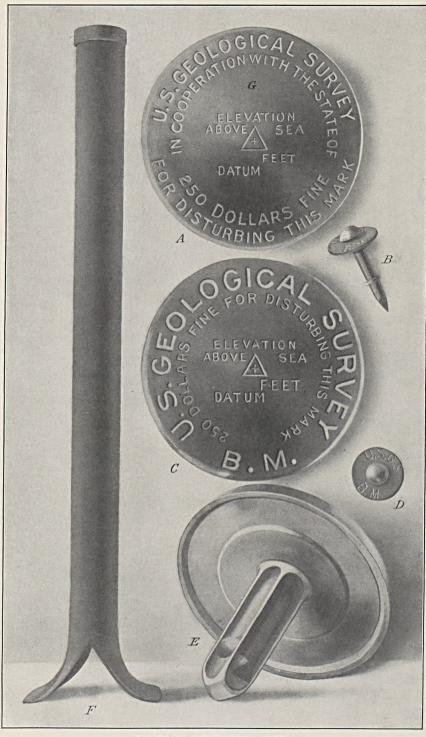
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GEOLOGICAL SURVEY BENCH MARKS.

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"T. 96 N., R. 49 W., northwest corner of sec. 6; iron post stamped	1, 484. 830
"Ynktn 1538"	1, 537. 194
T. 96 N., R. 50 W., northwest corner of sec. 6; iron post stamped "Ynktn 1372"	1, 371, 701
T. 96 N., R. 51 W., northwest corner of sec. 6; iron post stamped	
"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 "Ynktn 1273"	1 979 446
T. 97 N., R. 50 W., northwest corner of sec. 6; iron post stamped	1, 212, 440
"Ynktn 1299"	1, 298. 770

T. 97 N., R. 49 W., northwest corner of sec. 6; iron post stamped "Ynktn 1337"	
T. 97 N., R. 48 W., northwest corner of sec. 6; iron post stamped "Ynktn 1274"	
	1, 210. 011
From Parker southeast along Chicago, Milwaukee & St Paul Ry. and highway to corner of Tps. 98 and 99 N., Rs. 51 and 52 W., thence east along township line to line of Rs. 48 and 49 W., thence northwest to sec. 7, T. 100 N.,	
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 stamped "Ynktn 1335"	1, 334, 442
T. 98 N., R. 50 W., northwest corner of sec. 6; iron post stamped "Ynktn 1349"	1, 348, 553
T. 98 N., R. 49 W., northwest corner of sec. 6; iron post stamped "Ynktn 1372"	1, 371, 442
T. 98 N., R. 48 W., northwest corner of sec. 6; iron post stamped	
"Ynktn 1329" T. 100 N., R. 49 W., northwest corner of sec. 7; iron post stamped	1, 329. 231
"Ynktn 1484"	1, 483. 566
T. 100 N., R. 50 W., northwest corner of sec. 7; iron post stamped "Ynktn 1504"	1, 504. 510
T. 100 N., R. 51 W., northwest corner of sec. 7; iron post stamped	
"Ynktn 1534"From sec. 30, T. 99 N., R. 51 W., north along range line to line between Tps. 99	1, 955, 890
and 100 N., thence east to line of Rs. 49 and 50 W., thence southeast to sec. 34, T. 99 N., R. 49 W.	52 TO TO
T. 99 N., R. 51 W., northwest corner of sec. 6; iron post stamped "Ynktn 1448"	1, 447, 667
T. 99 N., R. 50 W., northwest corner of sec. 6; iron post stamped	
"Ynktn 1461"T. 99 N., R. 49 W., northwest corner of sec. 6; iron post stamped	1, 461. 006
"Ynktn 1419"	1, 418. 744
PARKER QUADRANGLE.	
[Latitude 43°-43° 30'; longitude 97°-97° 30'.]	
From Yankton northeast along Chicago & North Western Ry. to Centerville, thence northwest to Parker.	
Wakonda, in front of town hall, sec. 33, T. 95 N., R. 53 W.; iron post stamped "\u00e4nktn 1390"	1, 389, 911
Hurley, in center of park, sec. 27, T. 98 N., R. 53 W.; iron post stamped "Ynktn 1293"	35 30 T
T. 98 N., R. 53 W., northeast corner of sec. 4; iron post stamped	
"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 and south to T. 95 N., R. 53 W.	
T. 97 N., R. 53 W., northeast corner of sec. 20; iron post stamped	1 220 020
"Ynktn 1281"T. 97 N., R. 54 W., northeast corner of sec. 21; iron post stamped	
"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, 598. 518
"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"	1 940 000
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"	1, 397. 445
T. 99 N., R. 55 W., northeast corner of sec. 21; iron post stamped "Ynktn 1474"	1 479 809
T. 98 N., R. 55 W., northeast corner of sec. 4; iron post stamped	1, 110. 002
T. 98 N., R. 55 W., northeast corner of sec. 4; iron post stamped "Ynktn 1525"	1, 525. 040
T. 98 N., R. 55 W., northeast corner of sec. 21; iron post stamped	Shipping.
"Ynktn 1434"T. 97 N., R. 55 W., northeast corner of sec. 4; iron post stamped	1, 433. 968
"Ynktn 1615"	1 614 820
T. 97 N., R. 55 W., northeast corner of sec. 21; iron post stamped	1, 011. 000
"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"	1, 310. 742
T. 95 N., R. 55 W., northeast corner of sec. 1; iron post stamped	1 101 020
"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. 010
"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, 511. 101
"Ynktn 1393"	
T. 98 N., R. 61 W., northeast corner of sec. 1; iron post stamped	1, 002. 101
"Ynktn 1433"	
T. 97 N., R. 61 W., northeast corner of sec. 1; iron post stamped	1, 100. 200
"Ynktn 1528"	1 598 134
T. 97 N., R. 60 W., northeast corner of sec. 1; iron post stamped	
"Ynktn 1396"	
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 00= 4=0
"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"	1, 381. 981
T. 94 N., R. 48 W., near northwest corner of sec. 6; iron post stamped	1 957 145
"Ynktn 1358"T. 93 N., R. 48 W., near northwest corner of sec. 6; iron post stamped	1, 551. 145
"Ynktn 1314"	
STATE OF THE STATE	M NEWS
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.	
The balls and a second of the	
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"	
"Ynktn 1137"	1, 136. 192
T. 92 N., R. 50 W., northwest corner of sec. 6; iron post stamped	1 004 700
"Ynktn 1230"	1, 234. 738
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	1, 210.021
"Ynktn 1394"	1, 393. 060
T. 94 N., R. 51 W., northwest corner of sec. 6; iron post stamped	
"Ynktn 1228"	1, 227. 414
T. 93 N., R. 51 W., northwest corner of sec. 6; iron post stamped	1 140 770
"Ynktn 1147"T. 92 N., R. 51 W., northwest corner of sec. 6; iron post stamped	1, 146. 776
"Ynktn 1183"	1, 182, 355
THATH 1100	1, 102, 000
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.	
T. 90 N., R. 49 W., northwest corner of sec. 6; iron post stamped	envision (C)
"Volten 1198"	1 127 649
"Ynktn 1128"T. 90 N., R. 48 W., northwest corner of sec. 6; iron post stamped	1, 121. 010
"Ynktn 1111"	1, 110. 405
Jefferson, northwest corner of school yard, at northwest side of walk,	Dayseland '
in stone set 4 feet underground and covered by a 3-inch pipe	
marked "U. S. B. M."; copper bolt (Missouri River Commission	1 100 100
bench mark 358/3, redetermined by Coast and Geodetic Survey)	1, 109. 180

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 of the same and the same of the s	
	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
75 of the second	
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	4, 972. 238
77, 8 feet southwest of track; projection in wall of rock cut 1.5 feet above tracks	4, 901, 22
Mystic, 3,500 feet northeast of, 300 feet south of signpost marked	1,001.22
"Mystic," 40 feet west of track, 20 feet west of wagon road; wire	
nail in root of large spruce tree Mystic, 1,500 feet west of sawmill near section house, 400 feet north-	4, 830. 94
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	benderd blank
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,	4, 867. 525
350 feet south of garden patch, 15 feet east of wagon road, 30 feet west of track, 50 feet southwest of "P. T." post, 30 feet north of end of waste dump; iron post stamped "DW 5514"	5 516 964
Redfern, at section house; top of road crossing	
A sense has made he becomes not determ to address and	alming!
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"	9 400 000
Whitewood, 1 mile southeast of, 50 feet south of Sturgis and White-	0, 400. 008
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	0 500
stamped "DW 3590"	3, 592. 288

From Deadwood east along public road to Sturgis.

are and a texture of the contract of the contr	
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 made
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	April 19-3
stamped "DW 5938"	
Englewood, 0.5 mile north of, opposite Burlington & Missouri River	
R. R. transfer station; top of rail	. 0, 048.3
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	
west of Dumont-Lead City wagon road, about 15 rect northwest of	distribution in the second
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 1 1 1 1 1 1 1 1 1 1 1 1 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" 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 1 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 6, 155. 074
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 t 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 1 6, 155. 074 5, 218. 3
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
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 1 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 rail road; bronze tablet "DW 4954"	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 7 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 7 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 rail road; bronze tablet "DW 4954"	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"	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 7 5, 220. 616 1 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 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.	
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	E 190 14
of white quartz in northwest end of stone Merritt, at post office, 60 feet northeast of ranch on north side of	
road; iron post stamped "DW 5059"From Chicago, Burlington & Quincy R. R. bridge 74, about 1.5 miles northeast	5, 061. 340
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 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 groundSilver City, 2.8 miles west of, 5 feet north of road up Rapid Creek, 30	4, 727. 06
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 diameter north 65 feet; bronze tablet stamped "DW 4698"	4.700 228
Silver City, 1.6 miles west of, 40 feet southwest of highway bridge	, 100.220
over Rapid Creek, at mouth of deep gulch coming in from the southwest, west side of 18-inch spruce tree; spike in root	4, 661, 18
Silver City, 1,200 feet east of post office, 110 feet southwest of high-	
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 of 15-inch pine tree	4 548 99
Pactola, 1.8 miles west of, 15 feet southwest of road to Silver City,	1, 040. 28
350 feet northwest of junction with road running up Bear Gulch,	100
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	a Both
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 nailMerritt, 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 Boxelder Creek, 900 feet northeast of bridge over Boxelder Creek, on	ST. SAME
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 rootNemo, 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 treeGreenwood, 1.1 miles northwest of, 30 feet west of road to Deadwood	4, 925. 30
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" Johnson ranch, 1.8 miles northeast of, 6 feet northwest of county	5, 022. 013
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, 300, 93
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"	6 031 342
Shick ranch, 0.5 mile east of, 275 feet west of intersection of Roch-	0,001.012
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;	0 000 004
copper bolt stamped "DW 6007" Johnson ranch, 700 feet northwest of, 2.5 feet north of section corner	6, 009. 281
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	
ranch; iron post stamped "DW 6769"	6, 771. 166
Cold Springs, 300 feet north of, 150 feet north of point where Chey-	250 255
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	
"DW 6417"	6, 419. 199
Besant, 2.3 miles west of, north side of road, near edge of small park;	6 E40 951
iron post stamped "DW 6547"Besant, 0.2 mile southeast of, south side of road; iron post stamped	0, 049, 351
"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

22 SPIRIT LEVELING IN SOUTH DANGIN, 1900 TO 1919.	
Bulldog 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
From Spearfish along Spearfish and Bear Gulch road to Powers sawmill site.	
Spearfish, water table of Star & Bullock Building; bronze tablet stamped "DW 3647"	3, 649. 455
Brown ranch, 200 feet southwest of, south side of road; iron post stamped "DW 4224"	
Brown 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
Powers 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.	
Elmore, west of section house; iron post stamped "DW 5218"Cheyenne Crossing, 20 feet northwest of, intersection of road to Elmore with old Deadwood-Cheyenne stage road; iron post stamped "DW 5308"	
Block ranch, 75 feet northeast of, mouth of Deadhorse Canyon, west side of road; iron post stamped "DW 5610"Block 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.	
EDGEMONT QUADRANGLE. [Latitude 43°-43° 30'; longitude 103° 30'-104°.]	
[Latitude 43°-43° 30'; longitude 103° 30'-104°.] From Ivanhoe via Minnekahta to Hot Springs.	
[Latitude 43°-43° 30'; longitude 103° 30'-104°.] From Ivanhoe via Minnekahta to Hot Springs. Ivanhoe, 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" Minnekahta, in front of station; top of rail	
[Latitude 43°-43° 30'; longitude 103° 30'-104°.] From Ivanhoe via Minnekahta to Hot Springs. Ivanhoe, 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"	4, 163. 6
[Latitude 43°-43° 30'; longitude 103° 30'-104°.] From Ivanhoe via Minnekahta to Hot Springs. Ivanhoe, 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"	4, 163. 6 4, 161.363
[Latitude 43°-43° 30'; longitude 103° 30'-104°.] From Ivanhoe via Minnekahta to Hot Springs. Ivanhoe, 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"	4, 163. 6 4, 161.363 4, 063. 307 3, 817. 4
[Latitude 43°-43° 30'; longitude 103° 30'-104°.] From Ivanhoe via Minnekahta to Hot Springs. Ivanhoe, 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"	4, 163. 6 4, 161.363 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.
Edgement, 2.1 miles southeast of, at top of bluff, 25 feet south of
road; iron post stamped "3671 DW"3, 673. 281
Edgemont, 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
"3\$35 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-	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"	AL SECTION
	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"Provo, 500 feet southeast of, 35 feet northeast of wagon-road cross-	3, 712, 222
	ing; iron post stamped "3708 DW"Provo, 3 miles east of, 50 feet north of Chicago, Burlington & Quincy	
	R. R. track; iron post stamped "3632 DW"Provo, 6 miles east of, 2 miles northwest of Rumford, 60 feet south-	3, 634. 159
	west of railway track; iron post stamped "3532 DW"Rumford, 0.5 mile southeast of, 75 feet south of southeast end of	3, 534, 212
	siding, 65 feet southwest of main track, 300 feet east of wagon road; iron post stamped "3500 DW"	3, 502, 071
	Rumford, 3 miles southeast of, 60 feet east of wagon road, 600 feet south of bridge over wagon road, 650 feet west of track; iron post stamped "3487 DW"	MAKE STATE
	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"	
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"	
	north of State line; iron post stamped "3672 DW"	
	southwest of Simler's ranch; iron post stamped "3679 DW"; 1.12 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 proper	, 758. 310
	of Alkali Creek, at west end of low ridge; iron post stamped "3899 DW"	8, 901, 057
T	. 11 S., R. 1 E., southwest corner of sec. 18, at top of divide between north and south forks of Camp Creek; iron post stamped "4138"	
T	DW"4. 11 S., R. 2 E., near southwest corner of sec. 14, 10 feet north of road; iron post stamped "3909 DW"3	
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 guarter corner	, 721. 791

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. 5	2
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. 3	06
Hill City, 120 feet south of station, in center of south end of lawn,	
2 feet north of fence; iron post stamped "DW 4976" 4,978.5	14
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. 4	04

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	alli vila de
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.
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.	57 . 13 m . 1
Custer, 1.2 miles south of, 100 feet east of track on inside of curve, on	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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"	5 100 000
Pringle, 3,000 feet northeast of station, 300 feet south of crosssing of	5, 192, 282
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	1 001 155
"DW 4879"Pringle, in front of ticket office, main track; top of rail	4, 881, 155
	1, 001. 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	
by 15 feet, 5 feet high, in top 3 feet from northwest corner; copper bolt stamped "DW 4697"	4 000 000
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"	
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

Bretter and the second	
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 tree 5, 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	
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 root	
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	1
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 root 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	
root 6, 516. 24	
`	
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 2½ 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, 226. 438	
0, 220. 400	

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"	C 105 451
Buck Spring, 4.2 miles northeast of, 1.6 miles northeast of point	0, 199, 491
where Custer-Buck Spring road enters Gillette Canyon, 8 feet	
southeast of road, on west side of 15-inch pine tree; spike in root_	6 000 70
Posts Carrier A reiles northeast of 20 fact porth of Cyctor Posts	0, 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	F 000 F0
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.,"	
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	
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-	STATE !
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, 434, 497
200 2011 0100 2	.,

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 root5, 341. 46 Buck Spring, about 2 miles south of, 8 feet northwest of road down canyon, 6 feet southeast of dry rocky stream bed, in southeast side
of 20-inch pine tree, 6 inches above ground; spike 5, 175. 86 Buck Spring, 3.2 miles south of, 150 feet east of dry stream bed in Buck Spring Canyon, 60 feet southeast of and about 10 feet above
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"
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
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"4, 952, 436
Barthold ranch, 0.25 mile east of, 500 feet northeast of Coon Creek, 60 feet north of intersection of two wagon roads; iron post stamped "DW 4670"4,672,541
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 Richardson ranch, 1 mile southwest of, 15 feet northwest of road from S. & G. ranch to Pringle, at junction of road from southwest, in saddle on top of ridge; iron post stamped " DW 4594" Richardson ranch, 500 feet southwest of dwelling, 65 feet southwest of county road, on north side of 20-inch pine tree; spike in root Richardson ranch, 2 miles east of, 20 feet east of road, 800 feet north	4, 596. 608
of junction of roads, 900 feet south of junction with private road from Richardson ranch, on top of ridge about 1.25 miles west of Pleasant Valley; iron post stamped "DW 4796"	4, 798. 690
of Pleasant Valley, 3 feet northeast of wire fence; iron post stamped "DW 4649"	
from Eighteen Mile ranch to Horgan ranch, 1,500 feet north of top 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	or return
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 rootCedar 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
Custer 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
Custer County road, at junction of road from southeast, 0.25 mile south of point of fork of road to Reynolds ranch; iron post stamped "DW 5208"	5, 210, 492
Stamped Dil Ozoo	

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	5, 307. 26
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,	
160 feet southwest of gate in fence, on north side of 18-inch pine	
tree; wire spike in root	5, 490. 37
Y 4 ranch, 0.5 mile southwest of, 30 feet north of road from Pass	
Creek, 25 feet east of ravine, 60 feet north of fence, on south side	
of 2-foot pine tree; wire spike in root	5, 518. 16
Y 4 ranch, 0.5 mile northeast of, 20 feet southeast of road to Custer,	
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	
road, on north side of 18-inch pine tree; wire spike in root	5, 673. 85
road, on north side of 18-inch pine tree; wire spike in root	5, 673. 85
road, on north side of 18-inch pine tree; wire spike in root From Carr ranch along Custer-Newcastle public road via Fourmile, Marsh ranch,	5, 673. 85
road, on north side of 18-inch pine tree; wire spike in root 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
road, on north side of 18-inch pine tree; wire spike in root 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
road, on north side of 18-inch pine tree; wire spike in root 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
road, on north side of 18-inch pine tree; wire spike in root 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
road, on north side of 18-inch pine tree; wire spike in root 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	A SHARE
road, on north side of 18-inch pine tree; wire spike in root 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"	A SHARE
road, on north side of 18-inch pine tree; wire spike in root 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	A SHARE
road, on north side of 18-inch pine tree; wire spike in root 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
road, on north side of 18-inch pine tree; wire spike in root 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"	5, 477. 489 5, 338. 361
road, on north side of 18-inch pine tree; wire spike in root 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	5, 477. 489 5, 338. 361
road, on north side of 18-inch pine tree; wire spike in root 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
road, on north side of 18-inch pine tree; wire spike in root 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 pineMarsh 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 pineMarsh 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
road, on north side of 18-inch pine tree; wire spike in root 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
road, on north side of 18-inch pine tree; wire spike in root 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
road, on north side of 18-inch pine tree; wire spike in root 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
road, on north side of 18-inch pine tree; wire spike in root 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
road, on north side of 18-inch pine tree; wire spike in root 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
road, on north side of 18-inch pine tree; wire spike in root 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
road, on north side of 18-inch pine tree; wire spike in root 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 witness tree 30 feet east; bronze tablet set in rock, stamped "DW 5614" Ward ranch, 1 mile west of, on south edge of road, in root of 15-inch pine tree; nail	5, 477. 489 5, 338. 361 5, 475. 97 5, 455. 468 5, 616. 295
road, on north side of 18-inch pine tree; wire spike in root 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

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		1000
-	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	5, 100. 61
	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. lives
	top of ridge, 0.25 mile west of road running to Babcock ranch;	employa v
	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	
	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	0.020.01
	of 12-inch pine tree Vonderlehr ranch, 275 feet north of, east side of road where it turns	6, 052. 91
	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, 820. 281
	Vonderlehr ranch, 2 miles north of, 20 feet east of road, 300 feet	
	north of top of ridge at Spring Creek, in root of 24-inch pine tree;	- 011 0-
	nail 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	
	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	e 195 171
	pine witness tree 35 feet north; bronze tablet stamped "DW 6123"_Gillette ranch, 350 feet east of, in rock outcrop 20 feet long and 4 feet	0, 120, 111
	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	
	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	Propries
	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 feet southwest; iron post stamped "DW 5901"	5 902 179
		0, 000, 110
	29392°—Bull. 643—16——3	

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or still bettern in social bandin, 1000 to 1010.	100
From Dwyer ranch east to Tigerville, on Chicago, Burlington & Quincy R. R.	eres Monis
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.	dealors -
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	Side water
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; nail	
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;	
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 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	6, 464. 22
of intersection, at intersection of a ravine from the south with 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. 445
	-,

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 90
18	D. W. Thompson ranch 0.7 mile south of, 25 feet east of intersection	0, 500. 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	
	stamped "DW 6480"	6, 482. 410
	D. W. Thompson ranch, 0.25 mile south of, 90 feet east of road; in	
4	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-	
1	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"	6, 590. 385
	Woodward ranch, 2.25 miles south of, 40 feet east of road, beside stake; stone 2 feet by 1 foot; highest point	6 570 02
1	stake, stone 2 feet by 1 foot, inglest point.	0, 510. 55
	From intersection of Preacher Spring, Ditch Creek, Spring Creek, and Bear	
1	Springs roads north to head of Ditch Creek.	
100	D 0 1 P 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1	Bear Springs, 5 miles northwest of, 2.8 miles southeast of head of	
1 1	water in Ditch Creek, 12 feet east of road, 100 feet southeast of limestone outcrop, 300 feet north of top of ridge; highest point of	
1	18-inch black bowlder with broken corner	6 600 96
100	Bear Springs, 5.5 miles northwest of, 2.25 miles southeast of head	0, 000. 20
1 7	of water in Ditch Creek, 2 feet northeast of corner of SE. ‡ and	
	SW. ½ sec. 36, T. 1 S., R. 2 E., and NE. ½ and NW. ‡ of sec.	
	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	
188	"DW 6571"	6, 573. 457
1	Ditch Creek, head of, in limestone outcrop 10 by 10 feet and 2 feet	CHERT
	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	
100	tablet stamped "DW 6410"	6, 412. 406
100		

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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
-	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
8	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	
3	of 15-inch pine tree	5, 105, 73
	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"	
1	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"	
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	
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 "DW 2738"	2, 740, 155
Cheyenne River, bed of, at northwest corner of Pine Ridge Indian Reservation	leskimon.
Creek and Cheyenne River, 25 feet north of road; iron post stamped "DW 3270"	3, 270. 981
north side of road, north side of French Creek; iron post stamped "DW 3008"	3, 010. 010
junction of Alkali and Dry creeks, 500 feet south of junction of road to Battle Creek with Dry Creek-Hermosa road; iron post stamped "DW 3076"	3 077 866
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"	
Stinger ranch, 1 mile southwest of, 75 feet southeast of intersection of roads to Hermosa, Battle Creek, and Cheyenne River; iron post 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"	
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
of northeast corner of sec. 7, T. 2 S., R. 9 E., 450 feet south of Spring Creek; iron post stamped "DW 3133"Gramberg ranch, 1 mile northwest of, at southwest corner of NW. ‡	3, 134. 895
sec. 31, T. 1 S., R. 9 E., 100 feet north of crossroads; iron post stamped "DW 3216"	3, 217. 875
sec. 17, T. 1 S., R. 8 E., 100 feet south of road; iron post stamped "DW 3155"	3, 156. 874

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 corner of sec. 27, T. 4 S., R. 7 E., 3 feet northwest of railroad	3, 606. 376
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" Hermosa, about 3 miles southwest of, 880 feet north of southeast cor-	3, 432, 618
ner 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
stamped "DW 3503"	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	a diese
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"	3, 162, 495
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.

1	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	
1	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	S. A. Charles
l	courthouse, in center of top of United States Geological Survey	
ľ	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	
	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"	3, 459, 586
	Blackhawk, in front of ticket office; top of rail	3, 495, 7
	Blackhawk, 100 feet northwest of station, in west corner of yard on	1
	northwest side of building; iron post stamped "DW 3491"	3 493 495
	Blackhawk, 2.4 miles northwest of, top of divide between Blackhawk	0, 100, 100
	and Piedmont, 90 feet east of county-road crossing, 50 feet north-	more to an
	east of track, 25 feet south of county road along east and west	The same
	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	0, 021. 011
	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	TV north
	marked U. S. G. S., B. M., W. P.; bronze tablet stamped "DW	
	3460"	9 469 605
	Tilford, 2 miles southeast of, about 75 feet northwest of point where	0, 102. 000
	Elk Creek wagon road crosses railroad track, 0.25 mile east of	ar Inches
	mouth of Elk Creek Canyon, 150 feet northwest of junction of Elk	
	Creek wagon road with Sturgis-Rapid road; iron post stamped	
	"DW 3565"	2 567 959
	Tilford, in front of station; top of rail	9 500 0
	Tilford, in front of station; top of rail	5, 502. 0
	Tilford, 2.25 mile northwest of, 45 feet northeast of railroad crossing, on east side of Sturgis-Rapid wagon road; iron post stamped	
	"DW 3693"	2 605 711
	Sturgis, 5.5 miles southeast of, about 500 feet southeast of Beaver	5, 095. 111
	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	2 665 04
	of iron driftbolt	5, 605. 94
	Sturgis, 4.5 miles southeast of, 960 feet southeast of switch at	
	Myers siding, 50 feet north of track, 100 feet south of Sturgis-	9 694 909
	Rapid wagon road; iron post stamped "DW 3622"	9, 624, 503
	Myers siding, at switch; top of rail	5, 619. 1
	Sturgis, 2.8 miles southeast of, top of west end of north cap of bridge	
	H 264, under which Sturgis-Rapid wagon road passes; iron drift-	9 695 09
	bolt	0, 000. 40

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,	Maria San A
northwest 30 feet; copper bolt stamped "DW 4801" Jim Creek, 1,500 feet northeast of mouth, 190 feet north of highway	4, 803. 133
bridge over Boxelder Creek, in east corner of flat rock 15 by 25 by 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-	1,000,02
ness trees marked "II S G S B M W. T." one 18-inch, north 70	
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;	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" 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	
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	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" 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	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" 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 road; iron post stamped "DW 4864" SUNDANCE QUADRANGLE. [Latitude 44°-44° 30'; longitude 104°-104° 30'.]	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
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 road; iron post stamped "DW 4864" SUNDANCE QUADRANGLE. [Latitude 44°-44° 30'; longitude 104°-104° 30'.] On McQuaig road. McQuaig road, 3.7 miles west of intersection with Cheyenne-Dead- wood stage road, 15 feet south of road fork; iron post stamped "DW 6539" Near Pratt ranch. Pratt ranch (Bear Gulch), 1,000 feet east of, 45 feet south of road,	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., 1t. 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
94: iven 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
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
	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;	
OLO	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	Property.
	"3104 DW"	3, 106. 144
343	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;	2 026 262
366	iron post stamped "3034 DW"f and post stamped "3034 DW"	5, 050. 202
002	T. 10 N., R. 2 E., between corner pits at northwest corner of sec. 27; iron post stamped "3114 DW"	2 116 141
02	T. 9 N., R. 2 E., 1 foot west of northwest corner of sec. 11; iron post	5, 110. 111
60	stamped "3250 DW"	3, 252, 097
00	T. 9 N., R. 2 E., at corner of secs. 22, 23, 26, and 27; iron post	0,202.00.
94	stamped "3076 DW"	3, 078, 408
	stamped 5010 DW	- T- T-
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,	
8	south 1 mile, and east 5 miles to northwest corner of sec. 10, T. 9 N., R. 2 E.	
	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	
£	small draw 10 feet west of Alzada road; iron post stamped "3238	
11 13	DW "	3, 240. 208
3	T. 11 N., R. 1 E., northwest corner of sec. 15; iron post stamped	0 105 150
	"3123 DW"	3, 125, 159
- 1	T. 11 N., R. 1 E., 450 feet north of northwest corner of sec. 3, T. 10 N.,	
	R. 2 E. (no corner post found), 150 feet northwest of clump of three trees, in small creek bed; iron post stamped "3187 DW"	9 190 179
	T. 10 N., R. 1 E., between corner pits northwest corner of sec. 22; iron	0, 100. 110
	post stamped "3322 DW"	3, 324, 307
	Tps. 9 and 10 N., R. 1 E., 1 foot west of northwest corner of sec. 2;	
1	iron post stamped "3181 DW"	3, 183, 371
	T Q N Rs 1 and 2 E. 3 feet west of northwest corner of sec. 7; iron	
	post stamped "3126 DW"	3, 128. 291
12	A STATE OF THE PARTY OF STATE	
	From Spearfish along county road to Belle Fourche, thence to The Forks.	
	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
	T. 7 N., R. 2 E., 1,200 feet north of quarter corner between secs. 10	0, 000. 011
-	and 15; iron post stamped "3343 DW 1903"	3, 345, 420
	Willow Creek bridge, 400 feet south of, at fence corner, 40 feet north	1010-
1-0	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	
1	14. forks of road; iron post stamped "3373 DW 1903"	3, 374, 932
1	Joost schoolhouse, 100 feet north of; iron post stamped "3274 DW	
1	1903 "	3, 276. 199
1		

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
Belle Fourche, Butte County courthouse, southeast corner of yard, in 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. 1/4 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	5, 100. 201
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 " A Section of St. Open	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"	
	7, 202, 210

42	THINAIL ENVERING.	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, 202, 02,
0. 235	32; iron post stamped "3664 DW 1903"	3, 666, 169
11	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	
5. 410	"2983 DW 1903"	9 985 073
. 438	T. 9 N., R. 4 E., 400 feet north and 1,600 feet west of southeast corner	2, 000.010
. 100	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	-,
000	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;	T. Market
450	iron post stamped "2981 DW 1903"	2, 983, 42
11 3	T. 8 N., R. 5 E., 2,100 feet north of corner of secs. 3, 4, 9, and 10;	
100	iron post stamped "2821 DW 1903"	2, 822. 460
108	All alert may be been received with the development of the	
100	NEWELL QUADRANGLE.	
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, 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.	
	The state of the s	
	T. 8 N., R. 5 E., 30 feet northeast of northwest corner of sec. 25; iron	
8	post stamped "2815 DW"	2, 817. 202
0	T. 8 N., R. 6 E., 40 feet northwest of northwest corner of sec. 32; iron	51.10 x 100
3	post stamped "2788 DW"	2, 790. 078
1	T. 8 N., R. 6 E., 40 feet southwest of northwest corner of sec. 35; iron	0.040.00
1	post stamped "2812 DW"T. 8 N., Rs. 6 and 7 E., 30 feet southwest of northwest corner of sec.	2, 810. 297
1	31; iron post stamped "2783 DW"	0 705 101
1	T. 8 N., R. 7 E., 50 feet southeast of northwest corner of sec. 33; iron	2, 180, 131
	post stamped "2710 DW"	9 719 071
1	T. 8 N., R. 7 E., 40 feet southeast of northwest corner of sec. 35; iron	2, 112.011
1 3	post stamped "2679 DW"	9 670 095
3 0	T. 8 N., R. 7 E., northwest corner of sec. 23; iron post stamped	2, 019. 929
7	"2777 DW"	2 778 256
1	T. 8 N., R. 7 E., near northwest corner of sec. 16, at fence corner	2, 110, 200
3 3	south of road; iron post stamped "2726 DW"	2, 726, 926
1	T. 8 N., Rs. 6 and 7 E., 40 feet southeast of northwest corner of sec.	-, 120.020
13	18; iron post stamped "2728 DW"	2, 729, 011
100	T. 8 N., R. 6 E., 40 feet southeast of northwest corner of sec. 14; iron	, ,, ,,
1/15	post stamped "2751 DW"	2, 752, 136
1	T. 8 N., R. 6 E., 50 feet southwest of southeast corner of sec. 7; iron	THE STATE OF
100	post stamped "2903 DW"	2, 905. 107
150	29392°—Bull. 643—16——4	Doguecus

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	GI SON DO
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 State
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"	
	, 010.021
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 DW"	2 004 005
	T. 11 N., R. 7 E., northwest corner of sec. 27; iron post stamped	5, 094, 935
14	"3004 DW"	3, 006, 04
	T. 11 N., R. 7 E., northwest corner of sec. 10; iron post stamped	During to
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
9	"3045 DW"	3, 047, 099
	T. 11 N., R. 6 E., northwest corner of sec. 10; iron post stamped	
13	"3063 DW"T. 11 N., R. 6 E., northwest corner of sec. 27; iron post stamped	3, 066. 137
	"2986 DW"	2. 988 077
	T. 10 N., R. 6 E., northwest corner of sec. 10; iron post stamped	
1	"2943 DW"T, 10 N., R. 6 E., northwest corner of sec. 27; iron post stamped	2, 945. 172
	"2929 DW"	2, 931, 130
	T. 9 N., R. 6 E., NW. 4 sec. 3, Dry triangulation station; iron post	
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	0.044.045
	"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"T. 11 N., R. 5 E., northwest corner of sec. 10; iron post stamped	3, 162. 026
1	"3049 DW"	3, 051, 214
1	T. 12 N., R. 5 E., northwest corner of sec. 27; iron post stamped	
	"3169 DW"	3, 171. 082
	14 - 24 m C	

T

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 "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;	0 === 01
square cut in top of large rock, marked "2774"T. 8 N., R. 9 E., west side of sec. 19, on section line; large rock	
marked "2752"	2, 750. 15 2,786. 63
T. 8 N., R. 9 E., northwest corner of sec. 17; iron post stamped "2701"	
T. 8 N., R. 9 E., northwest corner of SW. 4 sec, 6; top of rock	
marked "2745"T. 8 N., R. 9 E., northwest corner of sec. 6; iron post stamped "2770"	
T. 9 N., R. 9 E., on line between secs. 31 and 36, northwest corner	
of sec. 31; rock marked "2810"T. 9 N., R. 9 E., northwest corner of sec 19; iron post stamped	
"2851"T. 9 N., R. 9 E., northwest corner of NE. 4 sec. 7; top of rock	
marked "2875"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. ¼ sec. 19; top of large rock	2, 819. 750
marked "2905"	2, 905. 31

70 10 10	
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 Color and the	2,010.21
T. 10 N., R. 9 E., northwest corner of sec. 6; iron post stampe	a
"2876"	_ 2, 875. 931
T. 11 N., R. 9 E., on west line of sec. 30, 500 feet south of northwest	t
corner of sec. 30; wooden stake marked "2825"	
T. 11 N., R. 9 E., northwest corner of sec. 19; iron post stampe	
"oror"	u
"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	d
"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
atan, non post stamped 2020	_ 2, 920. 58
The state of the s	

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1 22

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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"	
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"	
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"	
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	10 A 6 CO
"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.	STATE OF THE PARTY
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	
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.	
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	THE PARTY
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	
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 Charlet, 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,	Take all.
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 same is a second
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;	COLUMN TO A STATE OF THE PARTY
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.	1000
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	
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 tabletWhite Rock, on north side of Main Street, in sandstone sill of Globe	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. m. 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. G ₁)	1,829.927
Vienna, 3.6 kilometers south of, on north line of sec. 19, T. 114, R.	The state of the s
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	- delimit
northeast corner of cultivated field belonging to William Dede,	
0.5 meter above rails; 3-inch red-metal cap on iron pipe (C. &	
G. S. b. m. H ₁)	1 816 863
	1, 010. 000
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
	1,001.021
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.	
	1 000 014
b. m. J ₁)	1, 002. 214
Bryant, 1.3 kilometers north of, between secs. 7, 8, 17, and 18, T.	
113, R. 55; in center of pink jasper post at level of ground and	
center of crossroads; a raised smooth square (C. & G. S. b. m.	distribution !
	2 012 120
	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,	1, 845. 452
142 meters south of station and 16.5 meters east of Chicago,	1, 845. 452
142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest	1, 845. 452
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
142 meters south of station and 16.5 meters east of Chicago, Milwaukee & St. Paul Ry., on sandstone foundation at southwest	1, 845. 452
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,	1, 845. 452
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
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	
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)	
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,	
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)	
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,	
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)	
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)	
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)	
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
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
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
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
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
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
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
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
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
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
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
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.

AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	
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	Feet.
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 Inc.
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 all
6, on N. ½ 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,	11016
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.	THE PARTY OF
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,	Service II
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,	ET III.
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	all forest .
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	
	1 790 900
red-metal cap on iron pipe (C. & G. S. b. m. Y ₁)	1, 129. 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
G. S. b. m. A ₂)	1, 800, 452
Ramona, 1.2 kilometers south of, 14 meters east of railway, 192	
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 \(\frac{3}{5} \)-inch copper bolt in top of stone post	- man are
(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	
pipe (C. & G. S. b. m. C ₂)	1, 777. 060
Ramona, 8 kilometers south of, 270 meters 15° north of west of south-	No. of Lot
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 0.3 meter, set flush with ground, 1 meter east of fence and 1.1	
meters below rail; bottom of hole in horizontal surface (C. & G. S.	
	1 797 001
b. m. D ₂)	1, 131. 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	
20002 Duit. 010 10	

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	
(C. & G. S. b. m. Section Corner 6)	1, 796, 217
Ramona, 8 kilometers south of, 14 meters 30° west of south from	
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	
	1 949 779
(C. & G. S. b. m. E ₂)	1, 040. 112
Ramona, 8 kilometers south of, between secs. 23, 24, 25, 26, T. 107, R.	
54; on small bowlder; bottom of hole in horizontal surface (C. &	1 000 500
G. S. b. m. Section Corner 7)	1, 832, 582
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	
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	1, 100, 100
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 §-inch copper bolt	
	1 000 000
in top of stone post (C. & G. S. b. m. G ₂)	1, 000. 009
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	4 000 010
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
Pro (o. t. o. o.)	_,

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

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	-, 110, 100
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	SHEET STATE
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°.]

There of the Walls would also	A1	
		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 4 211
b. m. Ž ₃)	1, 221, 546
Hudson, 1 kilometer south of, 14 meters east of railway, 11 meters	
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, 212, 557
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	
(C. & G. S. b. m. B ₁)	1 199 217
(C. & G. S. D. III. D4)	1, 100. 21.
ELK POINT QUADRANGLE.	
Elli Total Goldson and a second	
[Latitude 42° 30'-43°; longitude 96° 30'-97°.]	
and the state of t	
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.	
b. m. C ₄)	1, 121, 497
Elk Point, in southeast corner of courthouse yard; copper bolt in	AND PERSONAL PROPERTY.
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	75 70 500
corner of roads, 1 meter west and 1 meter north of fences, 0.2 meter	
below rails; top of \(\frac{2}{3}\)-inch copper bolt in stone post (C. & G. S.	
b. m. D ₄)	1 125 956
D. M. Dint 29 rilemeters south of 18 meters portheast of railway at	1, 120. 000

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 Fee	t.
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.	1
P.B.M. 358-3) 1, 109.	180
Jefferson, at front entrance to Fontaine Block, 0.45 meter northeast	
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. L4) 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. W ₄)	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	A STATE OF THE STA
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.	STERRIC AT
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-	Alle a least
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)	
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) Olson Creek, 200 feet south of, on left bank, about 0.25 mile back of 212–2, 200 feet west of where road crosses creek, wagon road runs around foot of hill north of bench mark; surface of stone	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 of
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	and i
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

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)	mound in bottom, scattered brush in bottom but clear in vicinity of bench mark, wagon road 25 feet above leads to river 2 miles below where river strikes bluffs; surface of stone under iron pipe (Mo. R. Comm. b. m. 229—2) 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) 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) 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) 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)	Feet. 1, 498. 09 1, 505. 40 1, 513. 40 1, 502. 10
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),	THE RESERVE THE PROPERTY AND THE PARTY OF TH	AND IS
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)		
[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),	from river, on left bank, on first bench near edge of slope; surface	1, 472. 63
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),	FORT BENNETT QUADRANGLE.	
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),	[Latitude 44° 30'-45°; longitude 100° 30'-101°.]	
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)	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) Devils Island, a little below willows at foot of, on left bank, on slope	

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. 70
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 10 14

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). 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'; longttude 100° 30'-101*.] From point 10 miles below Fort Sully southerly and easterly along Missourl River to point 19 miles below Fort Sully, 25 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). Fort Sully, 15 miles below, on left bank, just below end of timber, 0.25 mile from river, 1,000 feet southwest of Oahe Mission, on low bench, 75 feet from edge of slope; surface of stone under iron pipe (Mo. R. Comm. b. m. 243—3). 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). FIERE QUADRANGLE. [Latitude 44*-44*-30'; longitude 100*-100*-30*.] From point 19 miles below Fort Sully east, south, and easterly along Missourl 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. b. m. b. m. 244—2). Fort Sully, 21.5 miles below, 00 feet from river, on left bank, 0.5 mile above point where bluffs strike river, 0.8 mile southwest of secondary triangulation station Stony	DESCRIPTION OF THE STREET OF THE CONTRIBUTION.	01
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)	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)	
VAN METRE QUADRANGLE. [Latitude 44°-44° 30′; longitude 100° 30′-101°.] From point 10 miles below Fort Sully southerly and easterly along Missourl 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)	on gentle slope, deep coulee above about 150 feet, rolling plateau below; surface of stone under iron pipe (Mo. R. Comm. b. m.	1, 524, 56
[Latitude 44°-44° 30′; longitude 100° 30′-101°.] From point 10 miles below Fort Sully southerly and easterly along Missourt 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)		1,021.00
From point 10 miles below Fort Sully southerly and easterly along Missourt 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)		
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)		
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)		
Fort Sully, 15 miles below, on left bank, just below end of timber, 0.25 mile from river, 1,000 feet southwest of Oahe Mission, on low bench, 75 feet from edge of slope; surface of stone under iron pipe (Mo. R. Comm. b. m. 243—2)	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.	
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)	Fort Sully, 15 miles below, on left bank, just below end of timber, 0.25 mile from river, 1,000 feet southwest of Oahe Mission, on low bench, 75 feet from edge of slope; surface of stone under	
[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. b. m. 244—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	
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. b. m. 244—2)—————————————————————————————————	PIERRE QUADRANGLE.	
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. b. m. 244—2)	[Latitude 44°-44° 30'; longitude 100°-100° 30'.]	
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. b. m. 244—2)		
Fort Sully, 21.5 miles below, 200 feet from river, on left bank, 0.8 mile above point where bluffs strike river, 0.8 mile southwest of secondary triangulation station Stony Hill, opposite a point 1,000 feet below head of willows on an island; surface of stone under iron pipe (Mo. R. Comm. b. m. 245—2)	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.	
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, 21.5 miles below, 200 feet from river, on left bank, 0.8 mile above point where bluffs strike river, 0.8 mile southwest of secondary triangulation station Stony Hill, opposite a point 1,000 feet below head of willows on an island; surface of stone under	
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	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.	
90900° Dall 649 16 6	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)	

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Stanley, a little above town of, which is on opposite bank, on left bank,	
2.5 miles below 246-2, just above mouth of small creek and 30 feet	
back from abrupt slope to river, 50 feet north of small shack in side	
of hill, near river bank; surface of stone under iron pipe (Mo. R.	Feet.
Comm. b. m. 247—2)	1, 450. 30
Fort Pierre, on right bank, 700 feet back from river, 700 feet above	
Bad River, on a gumbo hill just back of houses on Deadwood Street;	
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)	1 400 58
	1, 430. 30
Pierre, at corner of Pierre Street and Sioux Avenue; top of cap on	
hydrant (Mo. R. Comm. b. m)	1, 437. 10
Pierre, on doorstep at entrance to National Bank of Commerce build-	
ing (U. S. Weather Bureau b. m.)	1, 440. 69
Pierre Indian Training School, just inside of fence around, on left	
bank, 100 feet north by 150 feet west of northwest corner of main	
building, 2 feet south of sixth fence post south of gate at entrance	
to grounds; surface of stone under iron pipe (Mo. R. Comm. b. m.	
	1 449 97
249—2)	1, 440. 01
Pierre, 3.5 miles below, on left bank, on small gumbo knoll opposite	
about the middle of Farm Island, 150 feet from river bank, 225 feet	100
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)_	1, 440. 31
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 on	a
top of hill directly back about 0.5 mile; surface of stone under iron	
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, on	-, -00, 00
low bench land, just above fence line which runs to river bank and	
above a grove of small cottonwood trees; surface of stone under	1 100 10
iron pipe (Mo. R. Comm. b. m. 251—2)	1, 422. 16
Pierre, 9 miles below, on left bank, 200 feet from river, where prairie	
bottom slopes up and gets higher along the river, just above line of	
fence which runs to river bank, 0.25 mile below shack and 0.25	
mile above another shack; surface of stone under iron pipe (Mo. R.	
Comm. b. m. 252—2)	1, 421, 18
Milepost 271, 240 feet back from Chicago and North Western Ry. track	
at a point 40 feet above, 270 feet above road crossing, in flat gumbo	
bottom, on left bank; surface of stone under iron pipe (Mo. R.	
	1 404 05
Comm. b. m. 252—3)	1, 424. 95
Rousseau, on left bank, straight out from 253—3 0.25 mile, just back	
of brush along river bank, 15 feet east of small patch of cultivated	
land; surface of stone under iron pipe (Mo. R. Comm. b. m. 253—2)_	1, 414. 40
Rousseau, on left bank, on side hill just on corner of bluffs bounding	
Creek valley and Missouri River valley, 1,000 feet above section	
house, 1,000 feet southeast of black cross in graveyard, 100 feet	
from foot of hill is railroad; surface of stone under iron pipe	
(Mo. R. Comm. b. m. 253—3)	1 434 50
Rousseau, 3 miles below, 0.8 mile from river, on left bank, on gentle	1, 101. 00
slope of bluffs, 150 feet back from slope to timbered bottom; sur-	4 110 00
face of stone under iron pipe (Mo. R. Comm. b. m. 254—2)	1, 447. 80

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 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;	
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	
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	
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. ‡ sec. 13, T. 108, R. 75, the	
plateau, on northeast corner of Nr. 4 sec. 15, 1. 100, 16. 15, 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	
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.	
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	
Dack, there is also a shack one-half limb below, surface of stone	
under iron pipe (Mo. R. Comm. b. m. 261—2) 1,395.15	

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	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-	
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	V 200 20
(Mo. R. Comm. b. m. 281—1)	1, 345. 60
Chamberlain, at center of intersection of Main and Clemens streets;	
on cast-iron monument 2.5 feet long, set about 1 foot below surface	
of street (City bench mark)	
Chamberlain, on brick water table at northeast corner of Taft House	1, 414. 38
Chamberlain, on water table of High School, close up to brickwork	
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"	1 400 17
Chamberlain, in High School yard, 90 feet west and 18 feet north	1, 405. 11
from southwest corner south wing of this building; surface of	
stone under iron pipe (Mo. R. Comm. b. m. 282—2)	1 453 61
score under from pipe (110. 16. Comm. b. III. 202 - 2)	1, 199, 01
From Chamberlain southerly along Missouri River to point near Bijou Hills.	
Chambarlata O willow below an left bank 00% to 1 to 1 to 1	
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),	1 071 01
surface of stone : American Creek, opposite mouth of, on left bank, just below small	1, 354. 04
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	1 900 50
Brule Indian Agency, 135 feet west by 55 feet south of southwest	1, 500. 52
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	1 260 54
Peterson Creek, 150 feet above, 700 feet from river, on left bank, on	1, 505. 54
first bench, 100 feet back from edge of bank; stone surmounted by	
iron pipe (Mo. R. Comm. b. m. 285—2), surface of stone	1 340 91
Peterson Creek, 400 feet above, 0.25 mile back of 285—2, on south	, 010. 01
side of young grove or timber claim; stone surmounted by iron	
pipe (Mo. R. Comm. b. m. 285—3), surface of stone1	365 61
, , , , , , , , , , , , , , , , , , , ,	, 000, 01

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, 592, 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	A DESCRIPTION OF THE PARTY OF T
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	1 220 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.	
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.	MARKENIA MARKANIA
Bijou Hills, near, on left bank, 3 miles below 293-2, on lower side of	cai decai
small coulee where level bench land begins, 125 feet from river,	
150 feet south of old foundation of shack; stone surmounted by	
iron pipe (Mo. R. Comm. b. m. 294—2), surface of stone120	1, 334. 17
Durex Island, opposite foot of, on left bank, on level plateau, 130 feet from edge of abrupt slope to river, 0.25 mile above head of	3055 E ma
bottom, 1 mile above upper house of Rhodes's ranch; stone sur-	TOTAL SECTION OF
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	
(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	1 205 50
Island No. 1, opposite head of, on left bank, 0.25 mile above foot	1, 505. 50
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),	
surface of stone	1 289 31
Turgeon's red frame house, 0.5 mile below, on edge of bench land, 500	1, 200. 01
feet back of 299—2; stone surmounted by iron pipe (Mo. R. Comm.	
b. m. 299—3), surface of stone	1, 314, 51
Turgeon's red frame house, 3 miles below, on left bank, 75 feet above	200111
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	
ridge 200 feet from river, 0.25 mile above where timber begins;	104-102
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	1 911 90
our of, surface or stone	1, 011. 00
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.	1093600
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.	070.04
b. m. 303—2), surface of stone	1, 279. 34
edge of first bench; stone surmounted by iron pipe (Mo. R. Comm.	
b. m. 303—3), surface of stone	1 205 05
b, in ovo o), surface of stone	1, 000. 90

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),	
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).	Heimania Hermoton All History
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————————————————————————————————————	1, 261, 94
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	
	eet.
of stone1, 25	39.71
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 stone1, 25	54. 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	
	0 50
of stone1, 26	2. 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),	
	8. 92
	.0. 04
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 stone1, 22	28. 95
TYNDALL 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 stone1	. 203. 76
Antelope Point, 4 miles below, 0.25 mile back of 335—2, at foot of	., 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-	
	974 50
face of stone1	, 214. 00

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 stone1	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	

352—3), surface of stone1 Elk Point, 1.25 miles west of, on left bank, 200 feet north of D. W. Carter's house, 2 miles from river; stone surmounted by iron pipe (Mo. R. Comm. b. m. 353—2), surface of stone1	
Elk Point, southeast corner of courthouse yard; stone surmounted	199 11
by iron pipe (Mo. R. Comm. b. m. 353—3), surface of stone1, 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 stone1,	
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 stone1,	120. 23
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 stone1, Jefferson, 3 miles west of, 50 feet northwest of schoolhouse at crossroads; stone surmounted by iron pipe (Mo. R. Comm., b. m.	110, 30
356-3), surface of stone1,	116.96
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 stone1, 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.	108. 49
Comm. b. m. 358—2), surface of stone	108. 92
surface of stone1, Jefferson, 4 miles south of, on left bank, on north side of road,	109. 18
opposite house of A. P. Keendy, John Gibson owns land, 75 feet 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	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. 360-2), surface of stone1,	

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.
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 Marks, character of 57 Bennett ranch 94 Bench marks, character of 57 Bennett ranch 94 Bench marks, character of 56 Bennett ranch 94 Bench marks, character of 57 Bennett ranch 94 Bench 94 Bench 18, 21 Bend 94 Bench 18, 22 Burbank 94 Butte County 75 Bown ranch 95 Brynant 68				
Anthony station		1007 530		
Ardmore				
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 Babcock ranch 29 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 Chicago Burlington & Quincy R. 8-9 Chicago St. Paul, Minneapolis & Chicago Chicago Bard Burlington & Quincy R. 8-14 Chicago St. Paul, Minneapolis & Chicago				
Argyle			The state of the s	Committee of the Commit
Armstrong	The second secon		The second secon	
Arnold ranch		200	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.	No. of Part of	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		MAD I	15, 37, 42, 43,	64, 82
Baker ranch	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 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		120.00		
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 Bigstone City 59 Combe ranch 38 Bigstone City 59 Grown of Enineers, U. S. A., elevations from 8, 75 Bigate Angle 45 Grown of Creek 40 Blackhawk 43 Gottonwood Creek 40 Blair ranch 22 Crownhill 17 Bon Homme County 8, 75 Gottonwood Creek 10				
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 Cow Creek Indian Agency 83 Blue Blanket Island 77 Crow Peak triangulation station 95 Bow man ranch 22 Denown ranch 22 Brown ranch				- 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 Bid ranch 87 Corson County 75 Birdseye, C. H., leveling by 45 Cottonwood Creek 40 Blair ranch 37 Cramer ranch 33 Block ranch 22 Crow Creek Indian Agency 85 Blue Blanket Island 77 Crow Peak triangulation station 93 Bornan 41 Custer County 13 Brennan 41 Custer Peak triangulation station 95 Bryant 63 Deadwood 14, 16 <				
Belle Fourche quadrangle		1000		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 Bigstone City 59 Corber ranch 38 Bigou 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 Corson County 75 Block ranch 22 Crow 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			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 Block ranch 22 Crow Creek Indian Agency 85 Blue Blanket Island 77 Crownhill 17 Bon Homme 91 Crow Peak triangulation station 95 Bowman ranch 36 Custer County 13 Brennan 41 Custer Peak triangulation station 95 Brown sville 17 Brule County 5 Dayton ranch 19 Bryant 63 Boyton ranch 19 Deadwood 14,16 Buck Spring 28-29 Deadwood quadrangle 14-22 Buffalo County 75 Deer Mountain 95 Buffalo Gap 41,4	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. Description 13 Brown ranch 22 D. Description 6 Brule County 75 Datum, definition of 6 Dayton ranch 19 Bryant 63 Deadwood 14, 14 14, 22 Buffalo County 75 Deadwood quadrangle 14-22 Buffalo Gap 41, 42 Deer Mountain 95 Bulldog ranch 14, 18-19, 22 Dell Rapids 68		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 Man Creek Indian Agency 83 Bon Homme 91 Crownhill 17 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 syille 17 Brule County 5 Dayton ranch 19 Bryant 63 Boyton ranch 19 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, 18-19, 22 Dell Rapids 68 Burbank 93 De		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		2000		
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 100 11 11		
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		100000000000000000000000000000000000000		
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		1000		
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		17.55	D. 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	Take !	07	

Page.	н.	
		Page.
Devel	Hadley, H. M., leveling by	45
pency county	Hamlin County	58
Pittin Oiton III	Hare ranch	38
Ponnelly school 93	Harney Peak quadrangle	
Pouglas, E. M., work of 5		
Powe 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
Dwyer ranches 34, 36	Harvey ranch	44
	Hayward	37
E.	Hazel	62
20 01 70 71	Hell Canyon	28, 29
Edgemont 23, 24, 73-74	Henderson ranch	27
Edgemont quadrangle 22-25, 73-74	Hermosa	38, 41
Egan 67-68	Hermosa quadrangle	
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	30
Elk Point 71-72, 94	Horgan ranch	42
Elk Point quadrangle 12-13, 71-72, 94-95	Hot Springs	
Elm Creek 87	Hudson	71
Elmore 17, 22	Hudson quadrangle	
Englewood 14, 17	Hughes County	75
Erskine 22	Hurley	9
	Hutchinson County	8
THE WINDSHIP OF THE PROPERTY O	Hyde County	75
Estes ranch 44		
	I. days the	
F		
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 ranemana		
	J.	
Forest City 78-79		00
Forestville60	Jackson ranch	
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	21, 39
Fort Sully 80-81		
Fourmile 32	K.	
Freeman 10	The state of the s	
	Kavanagh, A. J., leveling by	53
G.	Kenover ranch	38
	Keystone	36
Gannett, S. S., work of 5	Kingsbury County	58
General Brooks Island 87	Kinney ranch	21
Gillette Canyon 28	Kirk	14
Gillette ranch 33	MITK	
Glendale 37		
Glenham quadrangle 75-77	L.	
Gottschalk, L. F., leveling by 13		-
Gould ranch 39	La Follette ranch	87
Gramberg ranch 40	La Grace	76
Grand River 77	Lake Andes quadrangle	
Grant County 58	Lake Preston	
Great Northern Ry 60-62	Lake Preston quadrangle	
Greenwood 20-21	Laning ranch	38
Gregory County 75	Lawrence County13,	45, 95
Gregory County	Le Beau	77
Gilmicj ranchizzania	Le Beau quadrangle	77-78
	Leveling, classification of	5
Grover 61-62	Letting, canonication village	

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	Perry 17
McVey ranch 39	Personnel, details of 5 Peterson Bottom 87
Madison 66-67	Peterson Creek86
Mahnke ranch 33	Peterson ranch 19, 27, 38
Maitland 23	Piedmont 43
Maps, topographic, list of7	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, 10
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	Rochford 15
Nasby19	Rockerville 37
Nelson ranch 21, 39 Nemo 20	Rosbolt 57 Rousseau 82–83
New Effington quadrangle 53-54	Rumford 24, 73
Newell quadrangle 49-53	Runkel16
Niobrara 91	Running Water 91
Niobrara quadrangle 90-91	94
0.	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 CARRIES AND	
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	



