UNITED STATES DISTRICT COURT
DISTRICT OF COLORADO

Civil Action No. 23-cv-00533

UNITED STATES OF AMERICA,

Plaintiff,

vs.

WATER SUPPLY AND STORAGE COMPANY, *in personam*,

and

GRAND RIVER DITCH, *in rem*,

Defendants.

VERIFIED COMPLAINT

The United States of America, by the authority of the Attorney General of the United States and through the undersigned attorneys, acting at the request of the Secretary of the United States Department of the Interior and the National Park Service ("NPS"), files this Verified Complaint and alleges that:

NATURE OF ACTION

1. This civil action is brought to recover response costs and damages related to the June 17, 2017 discharge of a large quantity of water from the Grand River Ditch in Rocky Mountain National Park in Colorado ("Park") pursuant to the System Unit Resource Protection Act, 54 U.S.C. §§ 100721, *et seq.* ("SURPA"), and pursuant to the March 21, 1907 Stipulation

between Defendant Water Supply and Storage Company ("WSSC") and the United States Forest Service regarding the operation and maintenance of the Grand River Ditch.

JURISDICTION AND VENUE

2. This Court has jurisdiction over the subject matter of this action pursuant to SURPA, 54 U.S.C. § 100723(a), and 28 U.S.C. §§ 1331, 1345, and 1355. This Court also has jurisdiction over the subject matter of the *in rem* action against the Grand River Ditch pursuant to 54 U.S.C. § 100722(b) and Fed. R. Civ. P. 4(n).

3. Venue is proper within this District pursuant to 28 U.S.C. § 1391(b) and (c), and 1395, because the violations complained of, and the claims asserted herein, arose in this District, because Defendant Water Supply and Storage Company is found in this District, and because the property subject to the *in rem* action is found in this District.

DEFENDANTS

4. At all times pertinent to this complaint, Water Supply and Storage Company, a Colorado corporation, was the owner and operator of the Grand River Ditch.

5. The Grand River Ditch is a water diversion and transmission canal carved into the slopes of the Never Summer Range, approximately 1,000 feet above the Colorado River and Kawuneeche Valley. The ditch is approximately 14 miles long and is up to 17 feet wide and 5 feet deep. It originates on the south side of Baker Gulch, about 0.6 miles outside of Rocky Mountain National Park at an elevation of approximately 10,280 feet, cuts along the east side of the Never Summer Range within Park boundaries, leaves the Park at La Poudre Pass at an elevation of approximately 10,175 feet, and terminates at the Long Draw Reservoir. The Grand River Ditch is described with more particularity in the attached Exhibit A.

STATUTORY BACKGROUND

6. Title 54, which governs NPS and related programs, defines a "System unit" of the National Park System as "any area of land and water administered by the Secretary [of the Interior] . . . for park, monument, historic, parkway, recreational, or other purposes." 54 U.S.C. §§ 100102 and 100501.

7. SURPA provides that "any person that destroys, causes the loss of, or injures any System unit resource is liable to the United States for response costs and damages resulting from the destruction, loss, or injury." 54 U.S.C. § 100722(a).

8. SURPA defines "System unit resource" as "any living or non-living resource that is located within the boundaries of a System unit[,]" but "does not include a resource owned by a non-Federal entity." 54 U.S.C. § 100721(3).

9. SURPA also provides that "[a]ny instrumentality, including a vessel, vehicle, aircraft, or other equipment, that destroys, causes the loss of, or injures any System unit resource shall be liable in rem to the United States for response costs and damages resulting from the destruction, loss, or injury to the same extent as a person is liable under [§ 100722](a)." 54 U.S.C. § 100722(b).

10. SURPA defines "response costs" as "the costs of actions taken by the Secretary [of the Interior] to—

(A) prevent or minimize destruction or loss of or injury to a System unit resource;

(B) abate or minimize the imminent risk of the destruction, loss, or injury; or

(C) monitor ongoing effects of incidents causing the destruction, loss, or injury."

U.S.C. § 100721(2).

11. SURPA provides that the term "damages" includes "the cost of replacing, restoring, or acquiring the equivalent of a System unit resource; and . . . the value of any significant loss of use of a System unit resource pending its restoration or replacement or the acquisition of an equivalent resource[.]" 54 U.S.C. § 100721(1)(A). Where the value of the System unit resource cannot be replaced or restored, damages include "the value of the System unit resource[.]" *Id.* Damages also include "the cost of a damage assessment under section 100723(b) of [SURPA]." 54 U.S.C. § 100721(1)(B).

GENERAL ALLEGATIONS

12. In or around 1894, the WSSC began constructing a drainage ditch, now known as the Grand River Ditch, along the slopes of the Never Summer Range in what was the Medicine Bow Forest Reserve, pursuant to the Act of March 3, 1891, §§ 18-21, 26 Stat. 1095 (codified as amended at 43 U.S.C. §§ 946-949) ("1891 Act").

13. The Grand River Ditch captures snow melt and rainwater from the east side of the Never Summer Range and diverts it over the Continental Divide at La Poudre Pass to the Long Draw Reservoir. From there, the water flows into the Cache La Poudre River, where it is further transported to water users along the Front Range and eastern plains.

14. The Department of Interior's regulations for the 1891 Act rights-of-way required that: "Whenever a right of way is located upon a forest or timberland reserve, the applicant must . . . give bond to the Government of the United States . . . such bond stipulating that the markers thereof will pay to the United States 'for any and all damage to the public lands, timber, natural curiosities, or other public property on such reservation, or upon the lands of the United States, by reason of such use and occupation of the reserve, regardless of the cause or circumstances under which such damage may occur .'" 34 Pub. Lands Dec. 212, 215-16 (Sept. 28, 1905).

15. On or around March 21, 1907, A.A. Edwards, President and duly authorized agent of WSSC entered into a Stipulation ("1907 Stipulation") with the United States Forest Service regarding the Company's Application for Right of Way through the Medicine Bow Forest Reserve for the "conduit" that would later be known as the Grand River Ditch. On June 28, 1907, C.S. Chapman, the Acting Forester for the Medicine Bow Forest Reserve, approved the 1907 Stipulation.

16. The 1907 Stipulation relates to the operation, maintenance, and other activities of the Grand River Ditch right of way and specifically requires WSSC: "To pay the United States for any and all damage sustained by reason of use and occupation of said forest reserve by the Company, its successors and assigns, regardless of the cause and circumstances under which such damage may occur."

17. On July 12, 1907, the Acting Secretary of the Interior approved the map of the Grand River Ditch, as required by statute then in effect, to provide a right of way to WSSC for the Grand River Ditch. *See* Act of March 3, 1891, §§ 18-21, 26 Stat. 1095, 1101-02 (codified as amended at 43 U.S.C. §§ 946-949), repealed by the Federal Land Policy and Management Act of 1976, 90 Stat. 2743 (codified as amended at 43 U.S.C. §§ 1701-85).

18. In 1915, the Rocky Mountain National Park was established. Act of January 26, 1915, 38 Stat. 798 (codified as amended at 16 U.S.C. §§ 191 *et seq.*). In 1930, portions of the Medicine Bow Forest Reserve, including the portions of the Never Summer Range through which the majority of the Grand River Ditch flows, were added to Rocky Mountain National Park. Act of June 21, 1930, §1, 46 Stat. 791 (codified at 16 U.S.C. § 192b).

19. In a February 25, 2000 Stipulation Between the United States and WSSC filed in the case titled *In the Matter of the Application of the United States of America for Reserved*

Water Rights in Rocky Mountain National Park, In Grand County (Case No. W-1768) (Dist. Colo. Water Div. No. 5), the United States and WSSC agreed that the 1907 Stipulation remains in full force and effect and that the National Park Service is a successor-in-interest of the United States Forest Service with regard to the March 21, 1907 Stipulation.

20. On information and belief, the closed culvert system/pipe structure ("Culvert") at the top of the Lady Creek drainage is part of the Grand River Ditch's infrastructure and should be properly maintained by WSSC to prevent the loss of water and damage to System unit resources below.

21. On or around June 17, 2017, the Culvert at the top of the Lady Creek drainage within the Grand River Ditch ruptured causing substantial water to flow into the drainage.

22. The water flow from the rupture in turn eroded the hillside surrounding the Culvert and caused an extreme debris flow.

23. This incident caused extensive erosion and deposition of rocks and sediment within the Lady Creek channel and floodplain, the Colorado River channel and floodplain between Lady Creek and Lulu Creek, and the Lulu City Wetland.

24. The rupture was caused when the Culvert failed.

25. The rupture caused significant damage to over two acres of forest, stream, riparian, and wetland habitat, all within the boundaries of the Rocky Mountain National Park.

26. In addition to the natural resource injuries, the rupture damaged a section of a pedestrian trail that passed through and around Lady Creek.

27. The rupture caused approximately 1,640 cubic yards of sediment erosion to Lady Creek.

28. The rupture resulted in approximately 100 percent loss of vegetation within the impacted area at Lady Creek.

29. The rupture resulted in the loss of hundreds of conifer trees, willow trees, and other vegetation within the impacted area at Lady Creek.

30. The rupture resulted in approximately 90 percent loss of vegetation within the impacted area along the Colorado River between Lady Creek and Lulu Creek.

31. The rupture caused extensive sediment deposition and resulted in the loss of hundreds of trees and other vegetation along the Colorado River.

32. The rupture deposited approximately 592 cubic yards of sediment into the Colorado River channel and Lulu City Wetland and floodplain.

33. The sediment deposit raised the Lulu City Wetland ground surface elevation and buried the vegetation within the impacted area.

FIRST CLAIM FOR RELIEF
(System Unit Resource Protection Act – *in personam*)

34. The allegations set forth in Paragraphs 1 through 33 above, inclusive, are realleged and incorporated herein by reference.

35. On or about June 17, 2017, while under the operation and control of Water Supply and Storage Company, the Culvert at the top of the Lady Creek drainage within the Grand River Ditch ruptured causing extensive destruction of, loss of, and injury to the Lady Creek channel and floodplain, the Colorado River channel and floodplain between Lady Creek and Lulu Creek, and the Lulu City Wetland within the Rocky Mountain National Park.

36. The land and wetlands (and associated flora and fauna) impacted by this incident are “System unit resources” as that term is defined within SURPA.

37. The rupture of the Culvert within the Rocky Mountain National Park resulted in the destruction of, loss of, and injury to System unit resources.

38. The rupture of the Culvert within the Rocky Mountain National Park caused the United States to incur significant "response costs" and "damages" as those terms are defined by SURPA.

39. Pursuant to SURPA, 54 U.S.C. § 100722(a), Defendant WSSC is liable for all past and future response costs and damages resulting from the destruction of, loss of, and injury to System unit resources within Rocky Mountain National Park caused by the rupture of the Culvert.

SECOND CLAIM FOR RELIEF
(System Unit Resource Protection Act – *in rem*)

40. The allegations set forth in Paragraphs 1 through 39 above, inclusive, are realleged and incorporated herein by reference.

41. The Grand River Ditch is an instrumentality that destroyed, caused the loss of, or injured System unit resources within the Rocky Mountain National Park.

42. Pursuant to SURPA, 54 U.S.C. § 100722(b), the Grand River Ditch is liable to the United States *in rem* for all past and future response costs and damages resulting from the destruction of, loss of, and injury to System unit resources caused by the rupture.

THIRD CLAIM FOR RELIEF
(1907 Stipulation)

43. The allegations set forth in Paragraphs 1 through 42 above, inclusive, are realleged and incorporated herein by reference.

44. The rupture of the Culvert caused extensive damage to the Lady Creek channel and floodplain, the Colorado River channel and floodplain between Lady Creek and Lulu Creek, and the Lulu City Wetland.

45. Pursuant to the 1907 Stipulation, Defendant Water Storage and Supply Company is liable for any and all damage the United States sustained as a result of Defendant Water Storage and Supply Company's use of the Grand River Ditch, regardless of the cause and circumstances under which the damage occurred.

PRAYER FOR RELIEF

WHEREFORE, Plaintiff, the United States of America, prays the Court:

1. That judgment be entered in favor of Plaintiff United States, against all Defendants, jointly and severally, for all response costs and damages in accordance with SURPA, 54 U.S.C. §§ 100721 *et seq.*, together with interest and costs;

2. That Defendant Grand River Ditch be condemned and sold to pay such judgment;

3. That judgment be entered in favor of Plaintiff United States and against Defendant Water Supply and Storage Company for any and all damage sustained as a result of Defendant's use of the Grand River Ditch in accordance with the 1907 Stipulation, together with interest and costs; and

4. For such order and further relief as the Court shall deem just and proper.

Respectfully submitted,

NATHANIEL DOUGLAS
Deputy Section Chief
Environmental Enforcement Section
Environment and Natural Resources Division
United States Department of Justice

/s/ Emily DeVille
EMILY L. DEVILLE
Trial Attorney
Environmental Enforcement Section
Environment and Natural Resources Division
United States Department of Justice
P.O. Box 7611
Washington, DC 20044-7611
4 Constitution Square
150 M Street N.E. (Rm. 2.900)
Washington, DC 20002
Telephone: (202) 514-2045
Email: Emily.DeVille@usdoj.gov

OF COUNSEL:

AMY DUIN
U.S. Department of the Interior
Office of the Solicitor, Rocky Mountain Region
755 Parfet Street, Suite 151
Lakewood, CO 80215
Telephone: (303)-548-0571
Email: amy.duin@sol.doi.gov

VERIFICATION

I, Koren R. Nydick, a Resource Stewardship Manager for the National Park Service based in Rocky Mountain National Park, hereby verify that to the best of my knowledge, information and belief, the facts stated in the forgoing complaint are true and accurate.

Koren R Nydick

KOREN R. NYDICK
Resource Stewardship Manager
Rocky Mountain National Park
National Park Service

STATE OF COLORADO

LARIMER COUNTY

The foregoing VERIFIED COMPLAINT was sworn to and subscribed before me this 23rd day of February, 2023, by Koren R. Nydick.

My Commission Expires: June 17, 2025

Melissa Lynn Mijares
Notary Public – Colorado

MELISSA LYNN MIJARES
NOTARY PUBLIC
STATE OF COLORADO
NOTARY ID 20094002370
MY COMMISSION EXPIRES 06/17/2025

C
O
P
Y

Field Notes

of the Survey of the

Grand River Ditch

Owned by the Water Supply and Storage Co.,

of Fort Collins, Colo.

Located in Sections 1, 12, 13, 24, 25, 26, 27 and 28, T. 5 N., R. 76 W. Sections 25 and 36 T. 6 N., R. 76 W. and Sections 19, 20, 21, 29, 30 and 31 T. 6 N., R. 75 W. of the 6th P. M.

Survey made July 10th to Sep. 20th, 1904 by J. J. Argo, Engineer.

Address of Owner,

Fort Collins, Colo.

U.S. Complaint
Exhibit A

Beginning at Station No. 1, on the South Branch of Bakers Gulch, whence the W. 1/4 Cor. Sec. 27 T. 5 N. R. 76 West of the 6th Principal Meridian bears N. 5° 49' W. 425.6 ft.

Thence N. 34° 39' W. 70.9 ft. to Station No. 2.

Thence N. 47° 40' W. 12.0 ft. to intersect, with the West boundary line of Sec. 27 at S. 367 ft. from the W. 1/4 Cor. Sec. 27.

Thence N. 47° 40' W. 100 ft. to Station No. 3

Thence N. 54° 40' W. 103 ft. to Station No. 4

Thence N. 25° 15' W. 65 ft. to Station No. 5

Thence N. 0° 45' E. 90 ft. to Station No. 6

Thence N. 2° 20' E. 80 ft. to Station No. 7

Thence N. 13° 20' E. 125 ft. to Station No. 8

Thence N. 26° 30' E. 90 ft. to Station No. 9

Thence N. 0° 20' W. 120 ft. to Station No. 10

Thence N. 35° 36' W. 65 ft. to Station No. 11

Thence N. 15° 33' E. 40 ft. to a point on the Middle Fork of Bakers Gulch whence the W. 1/4 Cor. Sec. 27 T. 5 N. R. 76 West of the 6th P. M. bears S. 21° 05' E. 420.9 ft.

Thence N. 15° 33' E. 20 ft. to Station No. 12

Thence S. 64° 27' E. 155 ft. to intersection with the West line of Sec. 27 at North 345 ft. from the W. 1/4 Cor.

Thence S. 64° 27' E. 65 ft. to Station No. 13

Thence S. 61° 07' E. 50 ft. to Station No. 14

Thence N. 85° 33' E. 85 ft. to Station No. 15

Thence S. 73° 45' E. 185 ft. to Station No. 16

Thence N. 88° 27' E. 40 ft. to Station No. 17

Thence N. 6° 27' E. 100 ft. to Station No. 18

Thence N. 18° 04' E. 145 Ft. to Station No. 19

Thence N. 10° 59' E. 115 ft. to Station No. 20

Thence N. 7° 31' W. 185 ft. to Station No. 21, on the North Branch of Bakers Gulch whence the W. 1/4 Cor. Sec. 27 T. 5 N. R. 76 W. of the 6th P. M. bears S. 29° 43' W. 923.3 ft.

Thence N. 80° 59' E. 154 ft. to Station No. 22

Thence S. 34° 26' E. 261 ft. to Station No. 23

Thence S. 35° 06' E. 165.5 ft. to Station No. 24

Thence S. 46° 51' E. 108.5 ft. to Station No. 25

Thence S. 47° 21' E. 161 ft. to Station No. 26

Thence S. 52° 06' E. 130 ft. to Station No. 27

Thence S. 68° 41' E. 197 ft. to Station No. 28

Thence S. 81° 06' E. 238 ft. to Station No. 29

Thence N. 88° 09' E. 200 ft. to Station No. 30

Thence N. 77° 19' E. 150 ft. to Station No. 31

Thence N. 56° 49' E. 80.4 ft. to Station No. 32

Thence N. 52° 19' E. 104.6 ft. to Station No. 33

Thence S. 79° 32' E. 295 ft. to Station No. 34

Thence S. 74° 32' E. 96.9 ft. to Station No. 35

Thence N. 81° 28' E. 44 ft. to Station No. 36

Thence N. 66° 39' E. 42.1 ft. to Station No. 37

Thence N. 49° 36' E. 77.7 ft. to Station No. 38

Thence N. 43° 19' E. 94.3 ft. to Station No. 39

Thence N. 66° 29' E. 188.6 ft. to Station No. 40

Thence S. 83° 46' E. 417 ft. to Station No. 41

Thence N. 63° 13' E. 84.4 ft. to Station No. 42

Thence S. 64° 33' E. 135 ft. to Station No. 43

Thence N. 76° 42' E. 150 ft. to Station No. 44

Thence E. 88° 47' E. 150 ft. to Station No. 45

Thence N. 58° 47' E. 85 ft. to Station No. 46

Thence N. 63° 47' E. 155 ft. to Station No. 47

Thence S. 82° 58' E. 260 ft. to Station No. 48

Thence S. 41° 58' E. 105 ft. to Station No. 49

Thence S. 64° 28' E. 85 ft. to Station No. 50

Thence S. 26° 28' E. 119 ft. to Station No. 51

Thence S. 54° 28' E. 74 ft. to Station No. 52

Thence S. 71° 28' E. 77 ft. to Station No. 53

Thence S. 86° 28' E. 90 ft. to Station No. 54

Thence N. 78° 17' E. 489 ft. to Station No. 55

Thence N. 82° 17' E. 151 ft. to Station No. 56

Thence S. 82° 43' E. 95.3 ft. to intersection with the East line of Sec. 27, at North 145 ft. from the E. 1/4 Cor.

Thence S. 82° 43' E. 25 ft. to Station No. 57

Thence S. 79° 43' E. 104.7 ft. to Station No. 58

Thence S. 43° 13' E. 195 ft. to Station No. 59

Thence S. 33° 13' E. 300 ft. to Station No. 60

Thence S. 59° 28' E. 285 ft. to Station No. 61

Thence S. 66° 28' E. 214 ft. to Station No. 62

Thence S. 63° 28' E. 98 ft. to Station No. 63

Thence S. 46° 23' E. 135 ft. to Station No. 64

Thence S. 79° 23' E. 88 ft. to Station No. 65

Thence S. 68° 53' E. 300 ft. to Station No. 66
Thence N. 88° 07' E. 152.7 ft. to Station No. 67
Thence N. 39° 58' E. 82.1 ft. to Station No. 68
Thence N. 15° 51' E. 103.2 ft. to Station No. 69
Thence N. 72° 46' E. 182 ft. to Station No. 70
Thence S. 82° 44' E. 241 ft. to Station No. 71
Thence S. 80° 29' E. 77 ft. to Station No. 72
Thence N. 57° 01' E. 72 ft. to Station No. 73
Thence N. 74° 46' E. 185 ft. to Station No. 74
Thence N. 42° 16' E. 150 ft. to Station No. 75
Thence N. 59° 16' E. 250 ft. to Station No. 76
Thence N. 38° 46' E. 260 ft. to Station No. 77
Thence N. 18° 46' E. 110 ft. to Station No. 78
Thence S. 65° 14' E. 165 ft. to Station No. 79
Thence S. 83° 14' E. 410 ft. to Station No. 80
Thence N. 85° 46' E. 175 ft. to Station No. 81
Thence S. 59° 14' E. 114 ft. to Station No. 82
Thence S. 83° 47' E. 530 ft. to Station No. 83
Thence N. 78° 13' E. 120 ft. to Station No. 84
Thence N. 58° 43' E. 455 ft. to Station No. 85
Thence N. 43° 43' E. 160 ft. to Station No. 86
Thence N. 23° 13' E. 205 ft. to Station No. 87
Thence N. 33° 28' E. 230 ft. to Station No. 88
Thence N. 19° 11' E. 190 ft. to Station No. 89
Thence N. 7° 49' W. 130 ft. to Station No. 90

Thence N. 56° 41' E. 70 ft. to intersection with the East boundary line of Sec. 26 at South 1590 ft. from the N. E. Cor. Sec. 26

Thence N. 56° 41' E. 110 ft. to Station No. 91

Thence N. 53° 41' E. 200 ft. to Station No. 92

Thence N. 68° 41' E. 200 ft. to Station No. 93

Thence N. 44° 21' E. 200 ft. to Station No. 94

Thence N. 37° 43' E. 150 ft. to Station No. 95

Thence N. 26° 13' E. 150 ft. to Station No. 96

Thence N. 31° 13' E. 100 ft. to Station No. 97

Thence N. 20° 13' E. 260 ft. to Station No. 98

Thence N. 24° 13' E. 125 ft. to Station No. 99

Thence N. 51° 13' E. 145 ft. to Station No. 100

Thence N. 85° 43' E. 70 ft. to Station No. 101

Thence N. 18° 58' E. 165 ft. to Station No. 102

Thence N. 11° 32' W. 145 ft. to Station No. 103

Thence N. 38° 17' W. 65 ft. to Station No. 104

Thence N. 56° 47' W. 25 ft. to intersection with North boundary line of Sec. 25 T. 5 S. R. 76 W. at N. 89° 51' E. 1030 ft. the N. W. Cor. Sec. 25.

Thence N. 56° 47' W. 65 ft. to Station No. 105

Thence N. 60° 47' W. 120 ft. to Station No. 106

Thence N. 27° 13' E. 105 ft. to Station No. 107

Thence N. 25° 25' E. 110 ft. to Station No. 108

Thence N. 36° 05' W. 130 ft. to Station No. 109

Thence N. 21° 41' W. 205 ft. to Station No. 110

Thence N. 28° 54' E. 65 ft. to Station No. 111
Thence N. 71° 29' E. 100 ft. to Station No. 112
Thence N. 87° 41' E. 250 ft. to Station No. 113
Thence S. 83° 20' E. 210 ft. to Station No. 114
Thence N. 80° 57' E. 175 ft. to Station No. 115
Thence N. 64° 05' E. 235 ft. to Station No. 116
Thence N. 52° 15' E. 85 ft. to Station No. 117
Thence N. 38° 28' E. 105 ft. to Station No. 118
Thence N. 19° 38' E. 205 ft. to Station No. 119
Thence N. 16° 33' E. 145 ft. to Station No. 120
Thence N. 40° 01' E. 165 ft. to Station No.121
Thence N. 23° 14' E. 100 ft. to Station No. 122
Thence N. 46° 05' E. 145 ft. to Station No. 123
Thence N. 42° 30' E. 280 ft. to Station No. 124
Thence N. 35° 36' E. 230 ft. to Station No. 125
Thence N. 19° 36' E. 225 ft. to Station No. 126
Thence N. 13° 15' E. 115 ft. to Station No. 127
Thence N. 55° 49' E. 160 ft. to Station No. 128
Thence N. 31° 57' E. 45 ft. to Station No. 129
Thence N. 10° 17' E. 148 ft. to Station No. 130
Thence N. 22° 41' E. 70 ft. to Station No. 131
Thence N. 19° 03' E. 107 ft. to Station No. 132
Thence N. 9° 37' W. 65 ft. to Station No. 133
Thence N. 18° 37' E. 75 ft. to Station No. 134
Thence N. 33° 15' E. 145 ft. to Station No. 135
Thence N. 16° 18' E. 85 ft. to Station No. 136

Thence N. 31° 48' W. 140 ft. to Station No. 137

Thence N. 33° 02' W. 190 ft. to Station No. 138

Thence N. 48° 43' W. 110 ft. to Station No. 139

Thence N. 38° 59' W. 165 ft. to Station No. 140

Thence N. 70° 23' W. 180 ft. to Station No. 141

Thence N. 71° 51' W. 95 ft. to Station No. 142

Thence N. 67° 44' W. 170 ft. to Station No. 143

Thence N. 6° 44' W. 60 ft. to Station No. 144

Thence N. 39° 14' W. 140 ft. to Station No. 145

Thence N. 63° 23' W. 110 ft. to Station No. 146

Thence S. 81° 54' W. 160 ft. to Station No. 147

Thence N. 89° 40' W. 175 ft. to Station No. 148

Thence N. 48° 01' W. 120 ft. to Station No. 149

Thence N. 88° 21' W. 75 ft. to Station No. 150 on a creek known locally as Opposition Creek; whence the N. 1/4 Cor. Sec. 24, T. 5 N. R. 76 W. bears N. 42° 44' E. 1547.5 ft.

Thence N. 26° 24' W. 110 ft. to Station No. 151

Thence N. 50° 26' E. 220 ft. to Station No. 152

Thence N. 61° 25' E. 120 ft. to Station No. 153

Thence N. 27° 35' E. 110 ft. to Station No. 154

Thence N. 16° 31' E. 215 ft. to Station No. 155

Thence N. 9° 44' W. 210 ft. to Station No. 156

Thence N. 13° 50' W. 106 ft. to Station No. 157

Thence N. 3° 45' W. 219 ft. to intersection with the North boundary line of Sec. 24 T. 5 N. R. 76 W. at S. 89° 54' W. 772 ft. from the N. 1/4 Cor.

Thence N. 5° 45' W. 230 ft. to Station No. 158

Thence N. 77° 12' E. 205 ft. to Station No. 159

Thence N. 64° 04' E. 265 ft. to Station No. 160

Thence N. 78° 13' E. 240 ft. to Station No. 161

Thence N. 71° 50' E. 190 ft. to Station No. 162

Thence N. 85° 04' E. 150 ft. to Station No. 163

Thence N. 86° 40' E. 250 ft. to Station No. 164

Thence N. 78° 56' E. 60 ft. to Station No. 165

Thence N. 56° 20' E. 92 ft. to Station No. 166

Thence N. 42° 28' E. 78 ft. to Station No. 167

Thence N. 28° 47' E. 191 ft. to Station No. 168

Thence N. 19° 33' E. 139 ft. to Station No. 169

Thence N. 7° 40' E. 140 ft. to Station No. 170

Thence N. 0° 58' W. 100 ft. to Station No. 171

Thence N. 11° 23' W. 262 ft. to Station No. 172

Thence N. 4° 39' W. 168 ft. to Station No. 173

Thence N. 37° 43' E. 85 ft. to Station No. 174
Thence N. 18° 06' E. 128 ft. to Station No. 175
Thence N. 6° 51' W. 157 ft. to Station No. 176

Thence N. 27° 35' W. 155 ft. to Station No. 177

Thence N. 16° 22' W. 232 ft. to Station No. 178

Thence N. 27° 47' E. 138 ft. to Station No. 179

Thence S. 74° 43' E. 125 ft. to Station No. 180

Thence N. 39° 23' E. 50 ft. to Station No. 181

Thence N. 5° 22' E. 135 ft. to Station No. 182

Thence N. 0° 42' W. 315 ft. to Station No. 183

Thence N. 21° 33' W. 127 ft. to Station No. 184

Thence N. 30° 05' W. 98 ft. to Station No. 185

Thence N. 43° 56' W. 225 ft. to Station No. 186

Thence N. 46° 43' W. 275 ft. to Station No. 187

Thence N. 61° 06' W. 250 ft. to Station No. 188

Thence N. 84° 16' W. 165 ft. to Station No. 189

Thence N. 55° 52' W. 182 ft. to Station No. 190

Thence N. 77° 30' W. 68 ft. to Station No. 191

Thence N. 45° 41' W. 592 ft. to Station No. 192

Thence N. 36° 06' W. 133 ft. to Station No. 193

Thence N. 39° 59' W. 105 ft. to Station No. 194

Thence N. 66° 14' W. 190 ft. to Station No. 195

Thence N. 40° 04' W. 103 ft. to Station No. 196

Thence N. 39° 09' E. 117 ft. to Station No. 197

Thence N. 18° 26' E. 95 ft.to Station No. 198

Thence N. 18° 18' W. 175 ft. to Station No. 199

Thence N. 14° 40' W. 60 ft. to Station No. 200

Thence N. 38° 38' W. 210 ft. to Station No. 201

Thence N. 41° 06' W. 182 ft. to Station No. 202

Thence S. 88° 50' W. 88.3 ft. to Station No. 203

Thence N. 37° 47' W. 79.7 ft. to Station No. 204

Thence N. 6° 55' E. 105 ft. to a point on a creek known locally as Mesquite Creek, whence the N. 1/4 Cor. Sec. 13 T. 5 N. R. 76 W. of the 6th P. M. bears N. 89° 02' E. 1227.7 ft.

Thence N. 6° 55' E. 21 ft. to Station No. 205 on the North boundary line of Section 13 T. 5 N. R. 76 W. of the 6th P. M. at S. 89° 50' W. 1225 ft. from the N. 1/4 Cor.

Thence N. 38° 30' E. 258 ft. to Station No. 206

Thence N. 12° 16' E. 51 ft. to Station No. 207

Thence N. 27° 41' W. 145 ft. to Station No. 208

Thence N. 1° 47' E. 120 ft. to Station No. 209

Thence N. 20° 44' E. 190 ft. to Station No. 210

Thence N. 53° 21' E. 315 ft. to Station No. 211

Thence N. 52° 39' E. 145 ft. to a point on a creek locally known as Lost Creek, whence the S. 1/4 Cor. Sec. 12 T. 5 N. R. 76 W. of the 6th P. M. bears S. 36° 38' E. 1142.9 ft.

Thence N. 52° 39' E. 20 ft. to Station No. 212

Thence S. 72° 10' E. 60 ft. to Station No. 213

Thence S. 47° 48' E. 100 ft. to Station No. 214

Thence S. 11° 56' W. 110 ft. to Station No. 215

Thence S. 36° 45' E. 65 ft. to Station No. 216

Thence N. 70° 58' E. 180 ft. to Station No. 217

Thence S. 66° 05' E. 230 ft. to Station No. 218

Thence N. 54° 04' E. 162 ft. to Station No. 219

Thence N. 27° 19' E. 105 ft. to Station No. 220

Thence N. 15° 34' E. 286 ft. to Station No. 221

Thence S. 84° 10' E. 110 ft. to Station No. 222

Thence S. 85° 28' E. 100 ft. to Station No. 223

Thence S. 68° 53' E. 80 ft. to Station No. 224

Thence S. 80° 11' E. 165 ft. to Station No. 225

Thence N. 49° 15' E. 140 ft. to Station No. 226

Thence N. 76° 26' E. 129 ft. to Station No. 227

Thence S. 79° 39' E. 252.5 ft. to Station No. 228

Thence S. 64° 41' E. 393.5 ft. to Station No. 229

Thence N. 56° 18' E. 170 ft. to Station No. 230

Thence E. 81° 36' E. 160 ft. to Station No. 231

Thence N. 78° 47' E. 130 ft. to Station No. 232

Thence N. 85° 50' E. 141 ft. to Station No. 233

Thence N. 74° 15' E. 110 ft. to Station No. 234

Thence N. 49° 23' E. 128 ft. to Station No. 235

Thence N. 41° 50' E. 66 ft. to Station No. 236

Thence N. 7° 40' E. 152 ft. to Station No. 237

Thence N. 5° 20' W. 111 ft. to Station No. 238

Thence N. 59° 28' W. 132 ft. to Station No. 239

Thence N. 42° 33' W. 250 ft. to Station No. 240

Thence N. 12° 58' W. 240 ft. to Station No. 241

Thence N. 28° 54' W. 69 ft. to Station No. 242

Thence N. 22° 24' E. 146 ft. to Station No. 243

Thence N. 6° 03' W. 173 ft. to Station No. 244

Thence N. 31° 30' W. 226 ft. to Station No. 245

Thence N. 3° 50' E. 179 ft. to Station No. 246

Thence N. 16° 37' W. 155 ft. to Station No. 247

Thence N. 1° 09' E. 269 ft. to Station No. 248

Thence N. 16° 55' W. 187 ft. to Station No. 249

Thence N. 89° 33' W. 94 ft. to Station No. 250

Thence N. 28° 24' W. 240 ft. to Station No. 251

Thence N. 49° 56' W. 60 ft. to Station No. 252

Thence N. 2° 28' W. 20 ft. to a point on a creek known locally as Roaring Creek whence the N. E. Cor. Sec. 12 T. 5 N. R. 76 W. of the 6th P. M. bears N. 37° 34' E. 1875 ft.

Thence N. 2° 28' W. 22 ft. to Station No. 253

Thence N. 42° 25' E. 58 ft. to Station No. 254

Thence N. 58° 06' E. 65 ft. to Station No. 255

Thence N. 27° 56' E. 115.2 ft. to Station No. 256

Thence N. 5° 17' W. 97.2 ft. to Station No. 257

Thence by a curve of 60 ft. Radius to the right 81.8 ft. to Station No. 258.

Thence N. 72° 58' E. 104.9 ft. to Station No. 259

Thence by a curve of 122.9 ft. radius to the left 65.1 ft. to Station No. 260

Thence N. 41° 42' E. 45.3 ft. to Station No. 261

Thence by a curve of 130.6 ft. radius to the right 191.9 ft. to Station No. 262

Thence S. 51° 57' E. 47.5 ft. to Station No. 263

Thence by a curve of 60 ft. radius to the left 66.3 ft. to Station No. 264

Thence N. 64° 39' E. 143.4 ft. to Station No. 265

Thence by a curve of 92 ft. radius to the left 223.4 ft. to Station No. 266

Thence N. 74° 26' W. 159.3 ft. to Station No. 267

Thence by a curve of 146.2 ft. radius to the right 105.8 ft. to Station No. 268

Thence N. 32° 03' W. 97.2 ft. to Station No. 269

Thence by a curve of 287.9 ft. radius to the right 148.8 ft. to Station No. 270

Thence N. 2° 17' W. 131.1 ft. to Station No. 271

Thence by a curve of 478.3 ft. radius to the left
72.4 ft. to Station No. 272
Thence N. 10° 58' E. 69.1 ft. to Station No. 273
Thence by a curve of 521.7 ft. radius to the right 297.1 ft. to intersection with the South boundary line of Sec. 1, T. 5 N. R. 76 W. of the 6th P. M. at S. 89° 54' W. 635 ft. from the S. E. Cor. Sec. 1.
Thence by the same curve 120 ft. to Station No. 274
Thence N. 33° 49' E. 52 ft. to Station No. 275
Thence by a curve of 206.7 ft. radius to the left
223.2 ft. to Station No. 276
Thence N. 28° 41' W. 124.6 ft. to Station No. 277
Thence by a curve of 206.7 ft. radius to the right
35.9 ft. to Station No. 278
Thence N. 18° 41' W. 84.8 ft. to Station No. 279
Thence by a curve of 60 ft. radius to the right
49.7 ft. to Station No. 280
Thence N. 28° 49' E. 46.3 ft. to Station No. 281
Thence by a curve of 60 ft. radius to the left
44.4 ft. to Station No. 282
Thence N. 15° 41' W. 219.8 ft. to Station No. 283
Thence by a curve of 60 ft. radius to the right
39.2 ft. to Station No. 284
Thence N. 42° 35' E. 87.5 ft. to Station No. 285
Thence by a curve of 222.3 ft. radius to the left
379.3 ft. to Station No. 286
Thence N. 55° 42' W. 48.1 ft. to Station No. 287

Thence by a curve of 478.3 ft. radius to the right
198.8 ft. to Station No. 288
Thence N. 31° 51' W. 95 ft. to Station No. 289
Thence by a curve of 478.3 ft. radius to the right
251.1 ft. to Station No. 290
Thence N. 1° 43' W. 18.6 ft. to Station No. 291
Thence by a curve of 319.6 ft. radius to the left
297.4 ft. to Station No. 292
Thence N. 55° 15' W. 58.7 ft. to Station No. 293
Thence by a curve of 146.2 ft. radius to the right
87.4 ft. to Station No. 294
Thence N. 20° 18' W. 55.5 ft. to Station No. 295
Thence by a curve of 478.3 radius to the left
196.3 ft. to Station No. 296
Thence N. 43° 51' W. 366.9 ft. to Station No. 297
Thence by a curve of 359.3 ft. radius to the left
150.6 ft. to Station No. 298
Thence N. 67° 57' W. 107.7 ft. to Station No. 299
Thence by a curve of 210.5 ft. radius to the right
106.8 ft. to Station No. 300
Thence N. 42° 19' W. 82.8 ft. to Station No. 301
Thence by a curve of 146.2 ft. radius to the left
106.6 ft. to Station No. 302
Thence N. 84° 58' W. 86.1 ft. to Station No. 303
Thence by a curve of 100 ft. radius to the left
79.8 ft. to Station No. 304

Thence S. 49° 18' W. 606 ft. to Station No. 305

Thence by a curve of 60 ft. radius to the right

153.1 ft. to Station No. 306

Thence N. 15° 47' E. 6 ft. to a point on Dutch Tom Creek whence the N. E. Cor. Sec. 1 T. 5 N. R. 76 W. of the 6th P. M. bears N. 48° 06' E. 3166.4 ft.

Thence N. 15° 47' E. 86 ft. to Station No. 307.

Thence by a curve of 206.7 ft. radius to the right

204.4 ft. to Station No. 308.

Thence by a curve of 573.7 ft. radius to the right

147.6 ft. to Station No. 309

Thence N. 86° 44' E. 124 ft. to Station No. 310

Thence by a curve of 573.7 ft. radius to the left,

158.7 ft. to Station No. 311

Thence N. 72° 52' E. 198.8 ft. to Station No. 312

Thence by a curve of 90 ft. radius to the left

185.6 ft. to Station No. 313

Thence by a curveof 359.3 ft. radius to the left

215.0 ft. to Station No. 314

Thence N. 79° 44' W. 110.7 ft. to Station No. 315

Thence by a curve of 359.3 ft. radius to the right

284.8 ft. to Station No. 316

Thence by a curve of 100 ft. radius to the right

110.3 ft. to Station No. 317

Thence N. 29° 02' E. 166.4 ft. to Station No. 318

Thence by a curve of 573.7 ft. radius to the left

218.5 ft. to Station No. 319

Thence N. 7° 31' E. 544.5 ft. to Station No. 320

Thence by a curve of 114 ft. radius to the right

220.3 ft. to Station No. 321

Thence S. 58° 21' E. 171.1 ft. to Station No. 322

Thence by a curve of 287.9 ft. radius to the left

168.4 ft. to Station No. 323

Thence N. 87° 58' E. 153 ft. to Station No. 324

Thence by a curve of 1432.7 ft. radius to the left

251.2 ft. to Station No. 325

Thence N. 77° 55' E. 132.8 ft. to Station No. 326

Thence by a curve of 118.3 ft. radius to the left

181.6 ft. to Station No. 327

Thence N. 11° 55' W. 42.1 ft. to Station No. 328

Thence by a curve of 1432.7 ft. radius to the left

278.6 to intersection with the

South boundary line of Sec. 36 T. 6 N. R. 76 W. of the 6th P. M.

at N. 89° 52' W. 903.7 ft. from the S. E. Cor. Sec. 36.

Thence by the same curve 60.6 ft. to Station No. 329

Thence N. 89° 29' W. 122.6 ft. to Station No. 330

Thence by a curve of 181.4 ft. radius to the right

162.6 ft. to Station No. 331

Thence N. 36° 23' E. 152 ft. to a point on Little

Dutch Tom Creek, whence the S. E. Cor. Sec. 36 T. 6 N. R. 76 W.

of the 6th P. M. bears S. 68° 09' E. 1025.5 ft.

Thence N. 36° 23' E. 578.6 ft. to Station No. 332

Thence by a curve of 573.7 ft. radius to the left

342.7 ft. to Station No. 333

Thence N. 2° 07' E. 373.9 ft. to Station No. 334

Thence by a curve of 287.9 ft. radius to the right

159.2 ft. to Station No. 335

Thence N. 33° 57' E. 806.4 ft. to intersection with the East boundary line of Sec. 36 T. 6 N. R. 76 W. at S. 00° 6' E. 257.6 ft. from the E. 1/4 Cor. Sec. 36.

Thence N. 53° 57' E. 220.6 ft. to Station No. 336

Thence by a curve of 478.3 ft. radius to the left

260.7 ft. to Station No. 337

Thence N. 2° 40' E. 16.1 ft. to Station No. 338

Thence by a curve of 1432.7 ft. radius to the left

545.8 ft. to Station No. 339

Thence N. 19° 10' W. 117.6 ft. to Station No. 340

Thence by a curve of 1432.7 radius to the right

301.5 ft. to intersection with the East boundary line of Sec. 36 T. 6 N. R. 76 W. at N. 00° 6' W. 1112.6 ft. from the E. 1/4 Cor. Sec. 36.

Thence by the same curve 108.1 ft. to Station No. 341

Thence N. 2° 47' W. 1094.2 ft. to Station No. 342

Thence by a curve of 287.9 ft. radius to the right 232.9 ft. to intersection with the East boundary line of Sec. 36, T. 6 N. R. 76 W. at S. 00° 6' E. 137.5 ft. from the E. E. Cor. Sec. 36.

Thence by the same curve 8.4 ft. to Station No. 343

Thence N. 45° 29' E. 129.1 ft. to intersection with the North line Sec. 31 T. 6 N. R. 75 W. at N. 89° 52' E. 132.3 ft. from the N. W. Cor. Sec. 31.

Thence N. 45° 29' E. 24.3 ft. to Station No. 344

Thence by a curve of 262 ft. radius to the left

538.4 ft. to Station No. 345

Thence N. 72° 55' W. 5.5 ft. to intersection with the East boundary line of Sec. 23 T. 6 N. R. 76 W. at N. 00° 06' W. 465.2 ft. from the S. E. Cor. Sec. 25.

Thence N. 72° 55' W. 174.1 ft. to Station No. 346

Thence by a curve of 973.7 ft. radius to the right

188.7 ft. to Station No. 347

Thence N. 54° 03' W. 118.2 ft. to Station No. 348

Thence by a curve of 572 ft. radius to the right

217.3 ft. to Station No. 349-350

Thence by a curve of 519.6 ft. radius to the left

171.6 ft. to Station No. 351

Thence N. 65° 06' W. 67.3 ft. to Station No. 352

Thence by a curve of 206.7 ft. radius to the right

151.4 ft. to Station No. 353

Thence N. 20° 50' W. 187.7 ft. to Station No. 354

Thence by a curve of 161.8 ft. radius to the left

207.2 ft. to Station No. 355

Thence S. 84° 51' W. 212.3 ft. to Station No. 356

Thence by a curve of 206.7 ft. radius to the right

209.1 ft. to Station No. 357

Thence N. 36° 49' W. 203.6 ft. to Station No. 358

Thence by a curve of 193.2 ft. radius to the right

168 ft. to Station No. 359

Thence N. 13° 39' E. 81.8 ft. to Station No. 360

Thence by a curve of 206.7 ft. radius to the left

181.2 ft. to Station No. 361

Thence N. 36° 59' W. 221.2 ft. to Station No. 362

Thence by a curve of 91.7 ft. radius to the right

183.1 ft. to Station No. 363 on

Saw Mill Creek whence the E. 1/4 Cor. Sec. 25 T. 6 N. R.

76 W. bears N. 77° 40' E. 1738 ft.

Thence by a curve of 359.3 ft. radius to the left

290.7 ft. to Station No. 364

Thence N. 33° 25' E. 16.0 ft. to Station No. 365

Thence by a curve of 146.2 ft. radius to the right

161 ft. to Station No. 366

Thence S. 82° 31' E. 150.3 ft. to Station No. 367

Thence by a curve of 100 ft. radius to the left

166.3 ft. to Station No. 368

Thence N. 1° 04' W. 63.1 ft. to Station No. 369

Thence by a curve of 193.2 ft. radius to the left

167.3 ft. to Station No. 370

Thence N. 51° 08' W. 147.6 ft. to Station No. 371

Thence by a curve of 146.2 ft. radius to the right

139.9 ft. to Station No. 372

Thence N. 4° 08' E. 221.5 ft. to Station No. 373

Thence by a curve of 240.5 ft. radius to the right

377.3 ft. to Station No. 374

Thence S. 85° 24' E. 252.8 ft. to Station No. 375

Thence by a curve of 716.8 ft. radius to the right

233.3 ft. to Station No. 376

Thence S. 66° 44' E. 49.8 ft. to a point on Lulu Creek whence the E. 1/4 Cor. Sec. 25 T. 6 N. R. 76 W. of the 6th P. M. bears S. 36° 38' E. 884 ft.

Thence S. 66° 44' E. 423.5 ft. to Station No. 377

Thence by a curve of 359.3 ft. radius to the left 146.1 ft. to intersection with the East boundary line of Sec. 25 T. 6 N. R. 76 W. at N. 00° 6' W. 513.2 ft. from the East 1/4 Cor. Sec. 25.

Thence by the same curve 117.9 ft. to Station No. 378

Thence N. 71° 01' E. 576.5 ft. to Station No. 379

Thence by a curve of 478.3 ft. radius to the right 187.8 ft. to Station No. 380

Thence S. 86° 27' E. 132 ft. to Station No. 381

Thence by a curve of 1432.7 ft. radius to the left 275.4 ft. to Station No. 382

Thence N. 82° 32' E. 179.2 ft. to Station No. 383

Thence by a curve of 193.2 ft. radius to the left 178.4 ft. to Station No. 384

Thence S. 44° 11' E. 539 ft. to Station No. 385

Thence by a curve of 478.3 ft. radius to theleft 159.7 ft. to Station No. 386

Thence S. 63° 21' E. 38.4 ft. to Station No. 387

Thence by a curve of 2865 ft. radius to the left 248.3 ft. to Station No. 388

Thence S. 68° 19' E. 269.9 ft. to Station No. 389

Thence by a curve of 287.9 ft. radius to the left 99.8 ft. to Station No. 390

Thence S. 88° 17' E. 18.0 ft. to Station No. 391

Thence by a curve of 146.2 ft. radius to the right

129.7 ft. to Station No. 392

Thence S. 40° 23' E. 26.5 ft. to Station No. 393

Thence by a curve of 359.3 ft. radius to the left

186.9 ft. to Station No. 394

Thence S. 70° 21' E. 468.8 ft. to Station No. 395

Thence by a curve of 146.2 ft. radius to the left

245 ft. to Station No. 396

Thence N. 12° 09' E. 220.9 ft. to Station No. 397

Thence by a curve of 573.7 ft. radius to the right

185.3 ft. to Station No. 398

Thence N. 30° 41' E. 28.9 ft. to Station No. 399

Thence by a curve of 573.7 ft. radius to the left

198.5 ft. to Station No. 400

Thence N. 10° 40' E. 96.7 ft. to Station No. 401

Thence by a curve of 193.2 ft. radius to the left

174.7 ft. to Station No. 402

Thence N. 41° 36' W. 4.8 ft. to Station No. 403

Thence by a curve of 716.8 ft. radius to the right

435.4 ft. to Station No. 404

Thence N. 6° 46' W. 417.5 ft. to Station No. 405

Thence by a curve of 359.3 ft. radius to the right

324.2 ft. to Station No. 406

Thence N. 45° 06' E. 122.1 ft. to Station No. 407

Thence by a curve of 716.8 ft. radius to the left

224.2 ft. to Station No. 408

Thence N. 27° 10' E. 126.4 ft. to Station No. 409

Thence by a curve of 287.9 ft. radius to the right

181.4 ft. to Station No. 410

Thence N. 63° 27' E. 112.2 ft. to Station No. 411

Thence by a curve of 287.9 ft. radius to the left

126.2 ft. to Station No. 412

Thence N. 37° 49' E. 6.0 ft. to Station No. 413

Thence by a curve of 476.3 ft. radius to the right

146.9 ft. to Station No. 414

Thence N. 55° 27' E. 279.2 ft. to intersection with the South boundary line of Sec. 19 T. 6 N., R. 75 W. at N. 89° 49' W. 663.2 ft. from the S. E. Cor. Sec. 19.

Thence N. 55° 27' E. 47.8 ft. to Station No. 415

Thence by a curve of 287.9 ft. radius to the left

129.3 ft. to Station No. 416

Thence N. 29° 35' E. 132.4 ft. to Station No. 417

Thence by a curve of 60 ft. radius to the right

120.2 ft. to Station No. 418

Thence S. 35° 23' E. 36.6 ft. to Station No. 419

Thence by a curve of 146.2 ft. radius to the left

260 ft. to Station No. 420

Thence N. 40° 55' E. 81.3 ft. to Station No. 421

Thence by a curve of 122.9 ft. radius to the right

77.1 ft. to intersection with the East boundary line of Sec. 19 T. 6 N. R. 75 W. at North 315.9 ft. from the S. E. Cor. Sec. 19.

Thence by the same curve 53.3 ft. to Station No. 422

Thence S. 76° 55' E. 80 ft. to Station No. 423

Thence by a curve of 287.9 ft. radius to the left

350 ft. to Station No. 424

Thence N. 33° 05' E. 195.4 ft. to Station No. 425

Thence by a curve of 193.2 ft. radius to the right

173.1 ft. to Station No. 426

Thence N. 85° 01' E. 12.8 ft. to Station No. 427

Thence by a curve of 410.3 ft. radius to the left

222.6 ft. to Station No. 428

Thence N. 55° 51' E. 147.9 ft. to Station No. 429

Thence by a curve of 206.7 ft. radius to the right

135.0 ft. to Station No. 430

Thence S. 88° 31' E. 34.5 ft. to Station No. 431

Thence by a curve of 240.5 ft. radius to the left

166.1 ft. to Station No. 432

Thence N. 51° 36' E. 58.8 ft. to Station No. 433

Thence by a curve of 478.3 ft. radius to the left

202.5 ft. to Station No. 434

Thence N. 27° 18' E. 140.2 ft. to Station No. 435

Thence by a curve of 478.3 ft. radius to the right

232.8 ft. to Station No. 436

Thence N. 55° 14' E. 639.4 ft. to Station No. 437

Thence by a curve of 287.9 ft. radius to the left

129.2 ft. to Station No. 438

Thence N. 29° 23' E. 544.1 ft. to Station No. 439

Thence by a curve of 40 ft. radius to the right

79 ft. to Station No. 440

Thence S. 37° 18' E. 13.9 ft. to Station No. 441

Thence by a curve of 100 ft. radius to the left

117 ft. to Station No. 442

Thence N. 75° 09' E. 6.6 ft. to Station No. 443

Thence by a curve of 36 ft. radius to the right

67.1 ft. to Station No. 444 on

Bennett Creek whence the N. E. Cor. Sec. 29 T 6 S. R 76 W.

bears N. 37° 29' E. 3615 ft.

Thence S. 32° 37' W. 34.5 ft. to Station No. 445

Thence by a curve of 181.4 ft. radius to the left

129.4 ft. to Station No. 446

Thence S. 8° 31' E. 4.5 ft. to Station No. 447

Thence by a curve of 359.3 ft. radius to the right

184 ft. to Station No. 448

Thence S. 20° 55' W. 94.8 ft. to Station No. 449

Thence by a curve of 118.3 radius to the left

148.6 ft. to Station No. 450

Thence S. 52° 42' E. 176.4 ft. to Station No. 451

Thence by a curve of 222.3 ft. radius to the left

210.6 ft. to Station No. 452

Thence N. 72° 33' E. 8.7 ft. to Station No. 453

Thence by a curve of 573.7 ft. radius to the left

243.7 ft. to Station No. 454

Thence N. 48° 11' E. 347.4 ft. to Station No. 455

Thence by a curve of 2864.9 ft. radius to the left

335 ft. to Station No. 456

Thence N. 41° 38' E. 122.7 ft. to Station No. 457

Thence by a curve of 573.7 ft. radius to the left
227.8 ft. to Station No. 458
Thence N. 18° 51' E. 14.6 ft. to Station No. 459
Thence by a curve of 1432.7 ft. radius to the right
279.2 ft. to Station No. 460
Thence N. 30° 01' E. 92.8 ft. to Station No. 461
Thence by a curve of 716.8 ft. radius to the right
219.8 ft. to Station No. 462
Thence N. 47° 36' E. 1.5 ft. to Station No. 463
Thence by a curve of 478.3 ft. radius to the right
237.1 ft. to Station No. 464
Thence N. 76° 03' E. 168.9 ft. to Station No. 465
Thence by a curve of 955.4 ft. radius to the left
254.4 ft. to Station No. 466
Thence N. 60° 47' E. 115.4 ft. to intersection with the East boundary line of Sec. 20 T. 6 N. R. 75 W. of the 6th P. M. at South 1883.6 ft. from the N. E. Cor. Sec. 20.
Thence N. 60° 47' E. 28.8 ft. to Station No. 467
Thence by a curve of 287.9 ft. radius to the left
214 ft. to Station No. 468
Thence N. 1° 57' E. 46.4 ft. to Station No. 469
Thence by a curve of 410.3 ft. radius to the right
252.4 ft. to Station No. 470
Thence N. 47° 17' E. 121.3 ft. to Station No. 471
Thence by a curve of 1432.7 ft. radius to the left
302.1 ft. to Station No. 472
Thence N. 35° 12' E. 748.4 ft. to Station No. 473

The end whence the N. W. Cor. Sec. 21 T. 6 N. R. 75 W. bears N. 63° 55' W. 1129.3 ft.

The South Feeder of the Grand River Ditch.

Beginning at Station No. 1 on a branch of the North Fork of the Grand River, whence the N. W. Cor. Sec. 29 T. 6 N. R. 75 W. of the 6th P. M. bears N. 52° 21' W. 5039 Ft.

Thence N. 29° 09' W. 161.5 ft. to Station No. 2

Thence N. 63° 39' W. 362.8 ft. to Station No. 3

Thence N. 10° 06' W. 293.7 ft. to Station No. 4

Thence N. 1° 46' W. 574.0 ft. to Station No. 5

Thence N. 40° 10' E. 347.6 ft. to Station No. 6

Thence N. 58° 33' E. 222.5 ft. to Station No. 7

Thence N. 49° 03' E. 495.2 ft. to Station No. 8

Thence N. 37° 05' E. 229.0 ft. to Station No. 9

Thence N. 15° 26' E. 371.7 ft. to Station No. 10

Thence N. 13° 21' E. 243.4 ft. to Station No. 11

Thence N. 14° 05' W. 129.5 ft. to Station No. 12

Thence N. 15° 25' E. 292.8 ft. to Station No. 13

Thence N. 8° 05' E. 110.5 ft. to Station No. 14

Thence N. 72° 15' W. 261.2 ft. to Station No. 15

Thence N. 15° 49' W. 72 ft. to intersection with the South boundary line of Sec. 20 at 11.89° 51' E. 4408 ft. from the S. W. cor. of that Section.

Thence N. 15° 49' W. 198.0 ft. to Station No. 16

Thence N. 37° 55' W. 225.0 ft. to Station No. 17

Thence N. 9° 23' W. 307.0 ft. to Station No. 18

Thence N. 4° 14' E. 215.4 ft. to Station No. 19

Thence N. 16° 14' E. 402.2 ft. to Station No. 20

Thence N. 89° 44' E. 363.9 ft. to Station No. 21

Thence N. 44° 16' E. 257.1 ft. to Station No. 22

Thence N. 47° 36' E. 315.2 ft. to Station No. 23

Thence N. 38° 04' E. 256.0 ft. to intersection with the East boundary line of Sec. 20 at South 2920 ft. from the N. E. cor. of that Section.

Thence N. 38° 04' E. 116.4 ft. to Station No. 24

Thence N. 40° 36' E. 384.8 ft. to Station No. 25

Thence N. 52° 44' E. 193.3 ft. to Station No. 26

Thence N. 21° 39' E. 135.0 ft. to Station No. 27

Thence N. 27° 23' W. 132.1 ft. to Station No. 28

Thence N. 15° 55' E. 182.2 ft. to Station No. 29

Thence N. 16° 22' E. 309.4 ft. to Station No. 30

Thence N. 19° 21' W. 339.6 ft. to Station No. 32

Thence N. 7° 45' W. 98.7 ft. to Station No. 33

Thence N. 39° 25' E. 400.7 ft. to Station No. 34

Thence N. 29° 58' E. 263.5 ft. to Station No. 35

Thence N. 30° 28' E. 293.2 ft. to Station No. 473 of the survey of the main ditch, at a point from whence the Northwest corner of Section 21, Township 6 North Range 73 West of the 6th P. M. bears North 63° 55' West 1129.3 feet.

All courses true. Magnetic Variation 15° 30' East July 1st. 1904.

The line described in these Field Notes is the center line of the ditch.

Instruments.

The lines were run with a Gurley Light Mountain Transit, 4 in. needle, reading Horizontal angles to minutes. The courses were deflected from the true meridian as determined by direct solar observations.

The grade line was determined by the use of Engineers' Y. Level.