

THIRD-ORDER LEVELING
NATIONAL GEODETIC VERTICAL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

252
35-081-34
DOE MOUNTAIN QUADRANGLE
N.C.-158 TENN.
N3615-W8145/15
DIAGRAM NJ 17-11
WINSTON-SALEM

Carter, Johnson, and Watauga Counties

Final adjustment of 1975

Edition of 7/17/75

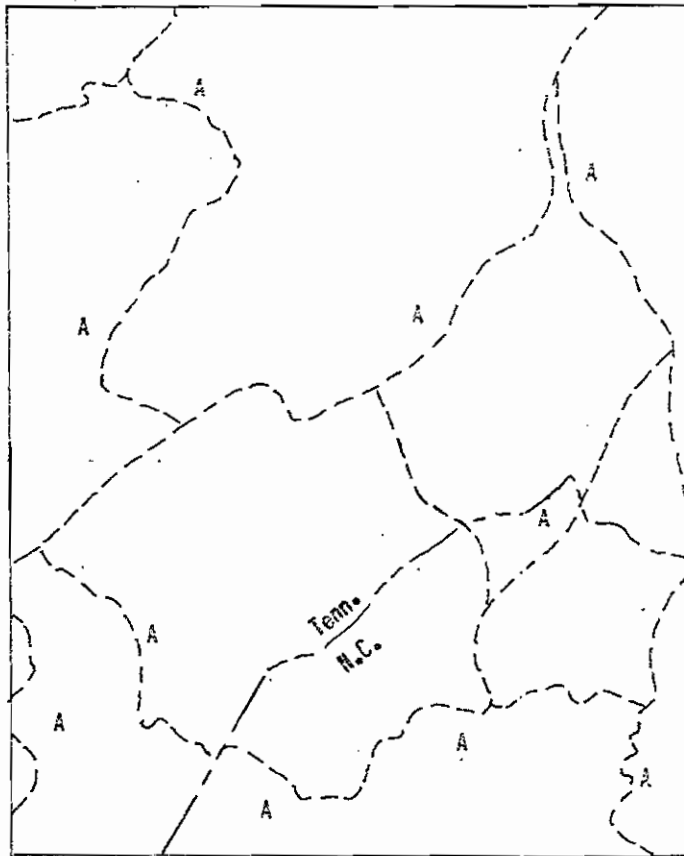
PR: WSM/rmc

RIVER CROSS
(191 N.C.-25 VA.)

WATAUGA VALLEY
(159)

NGVD 29
Elevations

HEAT CAMP
(251 N.C.-157 TENN.)



45°18'

36°15'

BLOWING ROCK
(223)

NGS (USDBOS) VERTICAL CONTROL DATA

A. Quadrangle 360813

INDEX OF PERMANENT MARKS

| <u>MARK (USGS)</u> | <u>PAGE NO.</u> | <u>MARK (USGS)</u> | <u>PAGE NO.</u> |
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| FH 5 1934 2318 | 3 | FH 8 1934 2605 | 3 |
| FH 6 1934 2380 | 3 | FH 11 1934 2677 | 3 |
| FH 6 1934 2728 | 3 | | |

NGVD 29
Elevations

DOE MOUNTAIN QUADRANGLE

252 N.C.--158 TENN.

36-081-34

3

ISOLATED BENCH MARKS (By J. P. Fish, 1934; Book B 5313)

Feet

| | |
|---|----------|
| Whaley, 7.2 mi NW. of, 60 ft NW. of center of rd. in saddle; on trail to Walnut Mtn. Road in rock outcrop; standard tablet stamped "FH 5 1934 2318" | 2317.150 |
| Reference mark; 70 ft NW. of tablet; 15 ft N. of trail; on rock outcrop; chiseled square | 2307.09 |
| Shell Creek, 12.0 mi NE. of; 50 ft SW. of center of Lunceford Branch Road; 10 ft SW. of center of stream; 600 ft W. of Millers Chapel; in rock outcrop; standard tablet stamped "FH 6 1934 2380" | 2379.412 |
| Reference mark; 150 ft NW. of tablet; 12 ft SW. of center of rd.; on large boulder; chiseled square | 2394.04 |
| Beech Creek, 2.2 mi SE. of; 30 ft S. of center of temporary Route 603; 46 ft E. of small drain; 10 ft above level of rd.; in top of large boulder; standard tablet stamped "FH 6 1934 2728" | 2726.855 |
| Reference mark; 785 ft SE. of tablet; 35 ft NE. of center of temporary Route 603; 6 ft below level of rd.; on highest point of 7- by 6-ft boulder; chiseled square | 2714.60 |
| Beech Creek, 5.2 mi SE. of; 25 ft SW. of intersection of Laurel Creek Road into temporary Route 603, in rock outcrop; standard tablet stamped "FH 8 1934 2605" | 2603.877 |
| Vilas, 2.2 mi NW. of; 54 ft NW. of center of U. S. Highway and State Highway, 60; 36 ft SW. of S. corner of Sugar Grove Post Office; in SW. abutment at SE. end of steel bridge over Cove Creek; standard tablet stamped "FH 11 1934 2677" <i>DEST 11-02-90 BE REPLACED IN 1939</i> | 2676.092 |
| Reference mark; 480 ft S. of tablet; 15 ft SE. of center of U. S. Highway 421 and State Highway 60; on rock outcrop; chiseled square | 2688.04 |

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Third-order Leveling

Bull. 441, pg. 121
Recopied: 6/15/54 jmr

1912 ADJ.

POINT 0.3 MILE NORTHEAST OF HOUSLEY, NORTHEAST ALONG BEAVER DAM
RAILROAD, TO DAMASCUS (PORTION OF LINE)

Buladeen (Colesville Post Office), 3.2 mi. N. of, W. of rd.
to Crandull, on S. side of mountain; cross on rock ledge,
marked "3112"

3111.23

FROM LINVILLE QUADRANGLE (NEAR STATE LINE) NORTHWEST AND SOUTHWEST
ALONG ROADS INTO NORTHEAST CORNER OF TOECANE QUADRANGLE
(by J. P. Fish, 1934; Book B5313)

S.L.D. of 1929

Whaley, 7.2 mi. NW. of, 60 ft. NW. of center of rd. in
saddle, on trail to Walnut Mtn. Road, in rock outcrop;
standard tablet stamped "2318 FH 5 1934"

2317.150

Reference mark, 70 ft. NW. of tablet, 15 ft. N. of trail,
on rock outcrop; chiseled square

2307.09

Whaley, 7.2 mi. NW. of by rd. thence 1.1 mi. NW. by trail,
3 ft. NE. of trail, 30 ft. SW. of edge of Elk River, on
rock outcrop; chiseled square, painted "BM 2059.4"

2058.66

Whaley, 7.2 mi. NW. of by rd. thence 1.7 mi. NW. by trail,
50 ft. W. of center of Lunceford Branch, 400 ft. E. of
New Lunceford Branch Road, in root on S. side of 36-in.
white pine tree; copper nail and washer, painted
"BM 2099.1"

2098.45

Shell Creek, 12.0 mi. NE. of, 50 ft. SW. of center of
Lunceford Branch Road, 10 ft. SW. of center of stream,
600 ft. W. of Millers Chapel, in rock outcrop; standard
tablet stamped "2380 FH 6 1934" painted "USBM 2380.1"

2379.412

Reference mark, 150 ft. NW. of tablet, 12 ft. SW. of
center of rd., on large boulder; chiseled square

2394.04

JOG FROM ELK PARD QUADRANGLE (may be in North Carolina)

Whaley, 2.5 mi. NW. of, 6 ft. NW. of center of Flat
Springs Road, on rock outcrop; chiseled square, painted
"BM 3422.8"

3422.40

Bk. B5313

By J. P. Fish, 1934

Recopied: 6/15/54 jmr

(Cont'd. P. 2)

S.L.D. of 1929FROM BANNER ELK QUADRANGLE EAST ALONG HIGHWAYS NEAR SOUTH BORDER
OF QUADRANGLE INTO SAME QUADRANGLE NEAR VILAS

| | |
|--|----------|
| Whaley, 4.3 mi. NE. of, 75 ft. NW. of center of tri-section of rds. in saddle of ridge, in root on SE. side of 10-in. locust tree; copper nail and washer, painted "BM 2718.2" | 2717.55 |
| Beech Creek, 0.8 mi. E. of, 17 ft. S. of center of temporary Route 603, 10 ft. E. of small drain on large boulder; chiseled square, painted "BM 2575.1" | 2574.40 |
| Beech Creek, 2.2 mi. SE. of, 30 ft. S. of center of temporary Route 603, 46 ft. E. of small drain, 10 ft. above level of rd., top of large boulder; standard tablet stamped "2728 FH 6 1934", painted "USBM 2728" | 2726.865 |
| Reference mark, 785 ft. S. 70° E. of tablet, 36 ft. NE. of center of temporary Route 603, 6 ft. below level of rd., on highest point of 7 by 6 ft. boulder; chiseled square | 2714.60 |
| Windy Gap, 3.2 mi. SE. of Beech Creek, 70 ft. NW. of center of temporary Route 603, 135 ft. SW. of Windy Gap Schoolhouse door, in root on S. side of 24-in. locust tree; copper nail and washer, painted "BM 2911.0" | 2910.34 |
| Windy Gap, 1.1 mi. SE. of, 12 ft. SE. of center of Route 603, in cut, on rock outcrop; chiseled square | 2699.45 |
| Beech Creek, 5.2 mi. SE. of, 25 ft. SW. of intersection of Laurel Creek Road into temporary Route 603, in rock outcrop; standard tablet stamped "2605 FH 8 1934" painted "USBM 2604.6" | 2603.877 |
| Beech Creek, 6.3 mi. SE. of, at SE. corner of wooden bridge on temporary Route 603; painted bolt head, painted "BM 2592.5" | 2591.74 |
| Watauga Falls, 0.9 mi. NW. of, 6.6 mi. W. of Vilas, 10 ft. W. of center of rd., on SE. corner of old store; chiseled square (tablet is in Banner Elk quadrangle) | 2636.09 |
| Vilas, 4.5 mi. NW. of, 45 ft. SE. of center of temporary Route 603, on W. corner stone of old log barn; chiseled square, painted "BM 2654.4" | 2653.68 |

DOE MOUNTAIN QUADRANGLE

TENNESSEE-NORTH CAROLINA

Bk. B5313

by J. P. Fish, 1934

Recopied: 6/15/54 jmr

(Cont'd. P. 3)

S.L.D. of 1929

- Vilas, 3.4 mi. NW. of, 45 ft. S. of center of temporary
Route 603, on SW. corner stone of large frame barn;
chiseled square, painted "BM 2662.8" 2662.01
- Vilas, 2.2 mi. NW. of, 54 ft. NW. of center of U. S. 421
and N.C. 60, 36 ft. SW. of S. corner of Sugar Grove, N.C.,
Post Office, in SW. abutment at SE. end of steel bridge
over Cove Creek; standard tablet stamped
"2677 FH 11 1934" painted "USBM 2676.8" 2676.092
- Reference mark, 480 ft. S. of tablet, 15 ft. SE. of
center of U.S. 421 and N.C. 60, on rock outcrop;
chiseled square 2688.04
- Vilas, 1.1 mi. NW. of, 20 ft. N. of center of U.S. 421
and N.C. 60, on rock outcrop; chiseled square, painted
"BM 2707.5" (C&GS tie) 2706.701

NGVD 29
Elevations