

## UNITED STATES DEPARTMENT OF THE INTERIOR

## GEOLOGICAL SURVEY

## THIRD-ORDER LEVELING

Bull. 646, pg. 53	Sea Level Datum of 1929
By W.S.D. Moore, 1899	(FEET)
4/12/65 mac	
Recopied	
FROM MARION NORTH ALONG ROAD TO SPRUCEPINE (By W.S.D. Moore, 1899)	
Woodlawn, 0.25 mi N. of post office, at Armstrong Creek, in center of triangle formed by forks of rd.; on iron post; standard cap stamped "1395 ASH"	1393.760
U.E., Mica, 100 ft S. of post office, 30 ft E. of center-line of rd., in solid rock; aluminum bolt (stamping obliterated)	2656.320
MICAVILLE WEST INTO DEMOCRAT QUADRANGLE	
Micaville, in fork of rd.; 30 ft NW. of NW. corner of post office; on iron post; standard cap stamped "2504 ASH" (Not tied by 1934)	2504.572
FROM TOECANE QUADRANGLE ALONG HIGHWAYS SOUTH AND WEST TO SPRUCEPINE THENCE WEST TO MICAVILLE THENCE SOUTHEAST TO POINT 2.6 MILES SOUTH OF CELO POST OFFICE (By L.A. Easterly, 1934)	
U.E., Spear, 1.9 mi S. of; along W. side of rd., on W. headwall of drainage pipe, chiseled square painted white	2820.81
U.E., Ingalls, 0.9 mi N. of, along paved hwy., 3.1 mi S. of Spear by hwy., in Jones Creek bridge, about 250 ft W. of N. Toe River; on N. end of E. wingwall; chiseled square painted white	2781.22
Ingalls, in triangular plot owned by Mr. White, 180 ft E. of intersection of hwys. U.S. 19 E. and State hwy. 194, 140 ft N. of W. end of hwy. bridge over U.S. 19 E., over Three Mile Creek, 55 ft S. of hwy. 194, 25 ft W. of Three Mile Creek, cemented in rock ledge; standard tablet stamped "E 1 1934"	2775.609
Reference mark, 160 ft S. of tablet, on E. end of hwy. bridge on U. S. 19 E. over Three Mile Creek, on N. wingwall; chiseled square	2765.46

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SEVENMILE RIDGE QUADRANGLE

(Cont'd. P. 2)

NORTH CAROLINA

Bk.B5307

By L.A. Easterly, 1934

S.L.D. of 1929

(FEET)

U.E., Ingalls, 1.0 mi S. of, 17 ft E. of centerline of hwy. where old abandoned rd. intersects; on concrete drop inlet headwall; chiseled square	2768.89
U.E., Ingalls, 2.1 mi S. of, along paved hwy.; on NE. end of bridge over N. Toe River, on N. wingwall; chiseled square	2642.95
Reference mark, on S. side of hwy. (210 ft W. of tablet); in root on E. side of 15-in. oak tree; copper nail and washer	2871.61
Lotta Post Office (discontinued 1932); about 250 ft N. of store where office was when discontinued; 45 ft S. and 50 ft W. of store owned by J.P. Gridstaff; on N. side of rd.; in concrete post; standard tablet stamped "E 2 1934 ELEV 2871"	2871.180
U.E., Sunshine School, 0.6 mi E. of, along paved hwy., 12 ft E. of centerline of hwy., in E. headwall of drain pipe culvert under hwy., on N. end; chiseled square painted white	2819.34
U.E., Spruce Pine, 2.0 mi NE. of, along hwy., on N. side of hwy., in N. headwall to pipe culvert; on W. end; chiseled square painted white	2800.93
U.E., Spruce Pine, 1.2 mi E. of, along hwy., on W. end of bridge over Beaver Creek, on N. wingwall; chiseled square painted white	2596.67
Reference mark, on concrete pump stand of Shell Oil Company filling station on Lower Street (in Spruce Pine); chiseled square with cross in center	2519.90
Spruce Pine, in station yard, 81 ft SE. of RR. station, 46 ft NE. of CC. & O. RR., 26 ft SW. of centerline of Lower Street, 28 ft W. of RR. crossing, in concrete post; standard tablet stamped "E 3 1934 ELEV 2517" (Tied by USC&GS)	2517.603
U.E., Spruce Pine, 1.0 mi W. of, along N. side of CC. & O. RR., 45 ft N. of N. Toe River, on rock ledge; chiseled with cross in square	2508.25

NGVD 29  
Elevations

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## SEVENMILE RIDGE QUADRANGLE (Cont'd. P. 3)

NORTH CAROLINA

Bk.B5307

By L.A. Easterly, 1934

S.L.D. of 1929

(FEET)

- U.E., Penland, 0.5 mi E. of, on S. side of C.C. & O. RR., on N. bank of N. Toe River, opposite large feldspar dump, on rock boulder; chiseled square with cross in center 2477.58
- U.E., Penland, 0.1 mi E. of, on W. abutment of bridge over Bear Creek, in N. wingwall; chiseled square painted white, painted "TP 2465.3" (Tied by USC&GS) 2465.891
- Penland, on S. side of C.C. & O. RR., 113 ft SW. of SW. corner of RR. station at Penland, on N. side of N. Toe River, 15 ft N. of store building, in concrete post; standard tablet stamped "E 4 1934", marked "2460" (Tied by USC&GS) 2462.413
- Reference mark, 480 ft SW. of tablet; niche chiseled in side of rock cut 2461.68
- U.E., Wing, 0.9 mi E. of, about 350 ft NE. of incomplete concrete power dam over N. Toe River, on N. side of C.C. & O. RR.; square niche chiseled in rock boulder painted white 2452.47
- U.E., Boonford, 0.4 mi E. of, 150 ft NE. of N. Toe River, 8 ft NE. of centerline of C.C. & O. RR., in rock boulder; chiseled niche 2407.65
- Boonford RR. station, 140 ft N. of, on W. side of C.C. & O. RR., about 100 ft W. of N. Toe River, at N. end of deep cut on RR., in concrete post; standard tablet stamped "E 5 1934 ELEV 2399" (Tied by USC&GS) 2401.199
- Reference mark No. 1, 56 ft N. of tablet, on rock boulder; chiseled square painted white 2403.24
- Reference mark No. 2, 390 ft SE. of tablet, in boulder; top of highest steel shaft 2398.61
- Newdale Post Office, 0.8 mi W. of, 22 ft N. of N. Toe River, in ledge; standard tablet stamped "E 6 1934 ELEV 2465" 2468.043
- Reference mark, 185 ft S. of tablet, in E. column of S. pier of bridge over S. Toe River; chiseled circle (also U.S. Engineer Office B.M.) 2463.666

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SEVENMILE RIDGE QUADRANGLE

(Cont'd. P. 4)

NORTH CAROLINA

Bk. B5307

By L. A. Easterly, 1934

S.L.D. of 1929

(FEET)

- U.E., Micaville, 0.5 mi E. of, along N. side of hwy., in N. headwall of drain pipe culvert, in W. end; chiseled square painted white 2538.56
- U.E., Micaville, 130 ft E. of rd. intersection to Marion, on concrete headwall to drain pipe under hwy., in E. end; chiseled square painted white 2456.16
- Celo, 1.5 mi NW. of, along paved hwy., 30 ft E. of centerline of hwy., 65 ft W. of old hwy., on land owned by Mrs. Bell Erwin, 110 ft W. and 70 ft N. of large dwelling house, in concrete post; standard tablet stamped "E 7 1934" 2717.541
- Reference mark, 46 ft N. of tablet, in root on NW. side of 27-in. oak tree; copper nail and washer 2713.22
- FROM BOONFORD WEST TO U.S. CORP OF ENGINEERS BENCH MARK  
2404.06 BM 1926 (DOUBLE RUN SPUR LINE)
- U.E., Boonford, 0.2 mi W. of, on E. end of hwy. bridge over N. Toe River, in N. curb; chiseled cross in circle (U.S. Engr. B.M.) 2403.54
- FROM MICAVILLE NORTH ALONG HIGHWAY INTO TOECANE QUADRANGLE
- U.E., Micaville, 130 ft E. of rd. intersection to Marion, on concrete headwall to drain pipe under hwy., in E. end; chiseled square painted white 2456.16
- Reference mark, 30 ft SE. of tablet, in SW. base of tree; copper nail and washer 2544.34
- Micaville, 0.2 mi W. and 1.7 mi N. of, on E. side of rd., at intersection of old rd. and new rd., 83 ft S. and 4.6 ft E. of intersection, in concrete post; standard tablet stamped "E 8 1934 ELEV 2539" 2541.214
- Double Island School, 37 ft W. of school building, 290 ft E. of hwy. bridge over Dabag Creek, 65 ft N. of N. bank of Dabag Creek, in concrete post; standard tablet stamped "E 9 1934 ELEV 2495" 2597.573
- Reference mark, 31 ft S. of tablet, in root on E. side of 18-in. beech tree; copper nail and washer 2493.14

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SEVENMILE RIDGE QUADRANGLE

(Cont'd. P. 5)

NORTH CAROLINA

Bk.B5307

By L.A. Easterly, 1934

S.L.D. of 1929

(FEET)

U.E., Double Island School, 0.9 mi N. of, 42 ft N. of centerline of rd., 60 ft W. of T-rd. NW., on boulder; chiseled square painted white	2596.86
U.E., Pleasant Grove Church, 0.4 mi SE. of, 116 ft SW. of rd., W. of small stream, on boulder; chiseled square painted white	2516.23
Pleasant Grove Church, 0.6 mi NW. of, along rd., 40 ft W. of old rd. intersection to Green Mountain, on S. bank of Little Brush Creek, on S. side of rd., opposite dwelling house of Will Hughes, in rock outcrop set in concrete; standard tablet stamped "E 10 1934 2453"	2455.674
Reference mark, 28 ft NW. of tablet, on rock outcrop; chiseled square	2449.63
FROM TOECANE QUADRANGLE SOUTHEAST AND SOUTH ALONG HIGHWAY TO PENLAND (leveled twice)	
Bakersville, 0.5 mi S. and 3.7 mi E. of, 2.9 mi N. of Bear Creek Baptist Church along rd. up White Oak Creek, on E. side of rd. at top of mountain, in top of boulder; standard tablet stamped "E 12 1934 3346"	3346.701
Reference mark No. 1, 50 ft N. of tablet, in root on W. side of 24-in. oak tree; copper nail and washer	3343.68
Reference mark No. 2, 15 ft SE. of tablet, on rock outcrop; chiseled square	3346.41
U.E., Bear Creek Baptist Church, 2.8 mi N. of, on E. side of rd., on rock outcrop; chiseled square	3227.82
Spruce Pine, 5.3 mi NW. of, along paved hwy., 2.4 mi NE. of Penland, on W. side of rd., 126 ft N. of paved hwy. to Bakersville, 250 ft NE. of concrete hwy. bridge, in rock outcrop; standard tablet stamped "E 13 1934 2622"	2623.759
Reference mark, 126 ft SW. of tablet, in large boulder that is used as abutment to bridge; chiseled square	2621.04

NGVD 29  
Elevations

(FEET)

U.E., Penland, 1.6 mi NE. of, 210 ft SE. of paved hwy. to Bakersville, on SE. abutment of steel bridge over Bear Creek, in S. wingwall; chiseled square	2566.87
U.E., Penland, 0.6 mi N. of, along W. side of rd., 194 ft SE. of Y-rd. NE. of Appalachain School, in rock ledge; chiseled square painted white	2559.32
Penland, on S. side of C.C. & O. RR., 113 ft SW. of SW. corner of RR. station, on N. side of N. Toe River, 15 ft N. of store building, in concrete post; standard tablet stamped "E 4 1934 2460"	2462.413
FROM POINT NEAR HUNTERS CHAPEL ALONG HIGHWAY SOUTH TO MICA THENCE NORTHWEST TO ESTATOE THENCE EAST TO SPRUCE PINE	
U.E., Altapass, 0.9 mi E. and 1.2 mi N. of, 100 ft NW. of cabin, on W. side of rd., on rock ledge; chiseled square with cross in center	2663.24
Altapass Post Office, 34 ft E. of, thence 78 ft S., along W. side of rd., 300 ft N. of C.C. & O. RR. station on E. side of C.C. & O. RR., in concrete post; standard tablet stamped "E 14 1934" (Tied by USC&GS)	2621.913
Reference mark, 96 ft SE. of tablet, in root on S. side of 9-in. oak tree; copper nail and washer	2626.06
U.E., Grassy Creek Baptist Church, 1.5 mi SE. of, 105 ft N. and 80 ft E. of dwelling house on S. side of rd., on S. end of culvert over small creek, in E. end of curb; chiseled square	2692.96
U.E., Mica, 100 ft S. of barn, 30 ft E. of centerline of rd., in solid rock aluminum bolt (stamping gone, bull. 646.pg.53)	2656.320
U.E., Grassy Creek Baptist Church, 0.2 mi S. of, along S. side of rd., in E. end of curb of culvert over Grassy Creek; chiseled square	2603.17
Little Switzerland, 0.1 mi NE. of post office, along W. side of rd. to McCalls Gap, 250 ft N. of Highway 19, 15 ft NW. of rd. crossing; in concrete post; standard tablet stamped "E 15 1934 3479" (Reported destroyed, 1951)	3479.017

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SEVENMILE RIDGE QUADRANGLE

(Cont'd. P. 7)

NORTH CAROLINA

Bk. B5307-8

By L.A. Easterly, 1934

S.L.D. of 1929

(FEET)

Reference mark, 41 ft NW. of tablet, in root on NE. side of 15-in. oak tree; copper nail and washer	3481.38
U.E., Little Switzerland, 2.0 mi NW. of, 110 ft N. of dwelling house, 150 ft SW. of Y-rd. intersection NE., on E. side of rd., on rock outcrop; chiseled square	3573.31
Estatoe, 2.3 mi SE. of, along N. side of rd., 50 ft E. of T-rd. S. intersection, in rock outcrop; standard tablet stamped "E 16 1934 3612"	3612.830
Reference mark, 17 ft E. of tablet, in root on SW. side of 21-in. maple tree; copper nail and washer	3609.46
U.E., Estatoe, 0.3 mi S. of, along E. side of rd., 20 ft E. of Brushy Creek, on rock outcrop; chiseled square	2651.56
U.E., Estatoe Post Office, 255 ft E. of, on E. end of concrete bridge over Brushy Creek, on S. wingwall; chiseled square	2626.80
Reference mark, 96 ft NE. of tablet, on N. concrete headwall to drain under hwy.; chiseled square	2739.97
Estatoe, 0.9 mi E. of, along S. side of U.S. Highway 19 E., 84 ft SE. of where farm rd. intersects Highway, in concrete post; standard tablet stamped "E 17 1934 2738"	2738.429
U.E., Spruce Pine, 2.0 mi SW. of, along W. side of U.S. Highway 19 E., on concrete headwall of drain under rd., on S. end; chiseled square	2890.47
U.E., Spruce Pine, 1.0 mi SW. of, along N. side of U.S. Highway 19 E., on concrete headwall of drain under rd.; chiseled square	2649.39
Spruce Pine, in station yard, 81 ft SE. of RR. station, 46 ft NE. of C.C. & O. RR., 26 ft SW. of centerline of Lower Street, 28 ft W. of RR. crossing, in concrete post; standard tablet stamped "E 3 1934 2517" (Tied by USC&GS)	2517.603

NGVD 29  
Elevations

(FEET)

FROM POINT 1.0 MILE NORTHWEST OF LITTLE SWITZERLAND SOUTHWEST  
ALONG HIGHWAYS TO POINT 2.6 MILES SOUTH OF CELO POST OFFICE

- Black Mountain Baptist Church, 65 ft SE., in front of  
church building on N. side of rd. to Crabtree Mines, on  
N. side of Crabtree Creek, 60 ft NW. of rd. intersection,  
in concrete post; standard tablet stamped  
"E 18 1934 317" 3171.666
- Reference mark, 140 ft SE. of tablet, in root on N. side of  
12-in. spruce tree; copper nail and washer 3174.75
- U.E., Crabtree Falls, 0.4 mi W. of, along N. side of Crab-  
tree Creek, on E. side of Carolina Mineral Company RR.,  
105 ft S. of Carolina Mineral Company supply store, on  
rock ledge; chiseled circle painted white 2667.94
- Reference mark, 16 ft NW. of tablet; on rock ledge;  
chiseled square 2831.46
- Murphee Falls, 0.6 mi S. of, along E. side of Carolina  
Mineral Company RR., on W. side of S. fork of Crabtree  
Creek, in rock ledge; standard tablet stamped  
"E 19 1934 2826" 2826.747
- U.E., Sevenmile Ridge School, 0.7 mi E. of, 42 ft W. of  
old barn, 70 ft S. of Carolina Mineral Company RR., S.  
of S. fork of Crabtree Creek, on boulder, on W. end;  
chiseled circle 2946.43
- FROM POINT 2.6 MILES SOUTH OF CELO POST OFFICE SOUTHWEST  
ALONG ROADS INTO OLD FORT QUADRANGLE (DOUBLE RUN SPUR LINE)  
(By C.A. Cluntet, 1900, L.A. Easterly and R.W. Goebel, 1934)
- Celo Post Office, 2.6 mi S. of, 130 ft E. of State Highway  
104, 450 ft S. of bridge over White Oak Creek, opposite  
old rd. to E. crossing over S. Toe River, in rock ledge;  
standard tablet stamped (only the center and 1/3 of tablet  
left; described in USGS Bull. 646, page 53) 2676.194
- U.E., Celo, 3.7 mi S. of, 300 ft N. of bridge over Locust  
Creek, on W. side of Highway, in concrete headwall to  
drain under rd.; chiseled square 2706.65
- U.E., Celo, 4.5 mi S. of, 100 ft S. of Carolina Hemlock  
Camp ground, on W. side of rd., in concrete headwall  
to drain pipe under hwy.; chiseled square 2766.86



#193

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SEVEN MILE RIDGE QUADRANGLE  
Bks. A H57b (fld)  
A H58a (cmp)  
By H. P. Finch, 1947  
5/14/48 jec

NORTH CAROLINA  
Mag. decl. 1°10' W.  
McDOWELL, MITCHELL, and  
YANCY COUNTIES

-1-

1100. U.S.G.S. triangulation sta. Spruce Pine 7, H. P. Finch;  
1947; R. H. Lyddan, 1933;

Spruce Pine 7, about 3 mi. NE. of Spruce Pine on SE. end of top  
in W. side of cleared field, 10 ft. W. of line fence traversing  
ridge

Station mark: Drill hole in rock directly under flag, triangle  
blaze on tree

Note: The above sta. found as described in poor condition, new  
sta. was plumbed in, directly in place of old sta. and the  
following description given

Spruce Pine 7, about 3 mi. (airline) NE. of Spruce Pine  
on property of The Kaolin Corp. Sta. is located at the base  
and on E. side of 36 in. poplar tree stump about 15 ft. tall,  
12 ft. W. of line fence traversing ridge between the property  
of Mr. Wiseman and The Kaolin Corp.; mark is 12 ft. W. of W.  
edge of cleared field on SE. end of ridge

To reach from Spruce Pine post office go 3.4 mi. NE. on U.S. route  
19E to Mt. Zion church, thence N. and W. 0.6 mi. across a  
branch and up hill to an abandoned apple orchard, thence 1200  
ft. NE. to summit of ridge and sta.

Station mark: Set in an iron pipe with rock cemented in place  
around iron pipe, standard tablet stamped "S. P. 7 1933 (F I 1947)

NGVD 29  
Elevations

## SEVEN MILE RIDGE QUADRANGLE

NORTH CAROLINA

Bks. A H57b (fld)

A H58a (cmp)

By H. P. Finch, 1947

5/14/48 jec

(Cont'd P. 2)

1100. (U.S.G.S. triangulation sta. Spruce Pine 7, continued)

Azimuth mark: A iron spike in center of a triangular blaze painted on a 30-in. oak tree about 450 ft. distance in open pasture bearing S. 77°15' E. .... 35 56 32.49 82 01 04.26

1119. Mt. Zion Church, 3.6 mi. NE. of Spruce Pine post office

along U.S. Route 19E; about 200 ft. NE. of Avery-Mitchell county

line; 29 ft. N. of locust tree in church yard; 14 ft. E. of edge of cliff on E. high bank of hwy.,

/in churchyard, in 7- by 7-in. concrete post; standard tablet

stamped "T T 51 FI 1947" 3853 35 55 55.26 82 00 54.31

1132a. Center line of hwy. at S. abutment of concrete bridge over

N. Toe river 5720 35 56 44.70 82 00 20.53

1135. Sunny Brook Store, 400 ft. N. of; 1.9 mi. S. of Ingalls,

15 ft. E. of center line of hwy. in center of a small triangle

plot formed by cut off rds. from T-rd. E., in 7- by 7-in. concrete

post; standard tablet stamped "T T 52 FI 1947"

2321 35 57 04.74 82 00 06.76

NGVD 29  
Elevations

#193

SEVENMILE 12100E 15'

Station: SPRUCE PINE #9

County: Mitchell

State: North Carolina

Observer: E. E. Lyddan

Year: 1954

Datum: 1927 N.A.S.D.

Description:

1/2 mi. N. of Spruce Pine on N. end of cleared top.  
Signal: 2 flags in 10" chestnut tree.  
Station Mark: Drill hole in rock directly under flag.

Not occupied  
Preliminary

NGVD 29  
Elevations

[Latitude 35 55 25.22

Longitude 82 05 53.86 ]

To Station—	Azimuth ° ' "	Back Azimuth ° ' "	Distance	
			Log. Meters	Miles
Woodys Knob	36 11 48.68	216 13 25.23	3.7608695	3.752
Whitening Spur	310 21 55.32	130 21 23.25	3.9193973	3.261

#193

SEVENMILE RIDGE 15'

Station: **SPRUCE PINE #0**

County: **Mitchell**

State: **N. Carolina**

Observer: **J. L. Williams**

Year: **1974**, Datum: **1987 N.A.S.D.**

Description:

Located about 1 mi. E. of Windham P.O. on top of ridge.

Signal: Flag in top of least tree on wooded top.

Station Mark: Drill hole in rock directly under signal.

Three Point  
Preliminary

[Latitude **35 56 05.92**

Longitude **82 14 27.82** ]

To Station—	Azimuth		Back Azimuth		Distance	
	°	' "	°	' "	Log. Meters	Miles
<b>Cale</b>	<b>04</b>	<b>22 21.00</b>	<b>104</b>	<b>22 05.25</b>	<b>3.9679111</b>	<b>5.791</b>
<b>Woodye East</b>	<b>296</b>	<b>14 56.14</b>	<b>116</b>	<b>19 14.13</b>	<b>4.1396664</b>	<b>6.571</b>

NGVD 29  
Elevations

#193

SEVENMILE RIDGE 15

Station: SPRUCE PINE #7

County: Mitchell

State: N. Carolina

Observer: R. H. Lydman

Year: 1931, Datum: 1927 N.A.D.

Description:

Camp. No. TIA #5

About 3 mi. NE. of Spruce Pine on SE. end of top in N. side of cleared field,  
10 ft. W. of line fence traversing ridge.

Station: Drill hole in rock directly under flag, triangle base on tree.

Not occupied  
Preliminary

[Latitude 35 56 32.10

Longitude 82 01 04.26 ]

To Station—	Azimuth	Back Azimuth	Distance	
			Log. Meters	Miles
Woodys Knob	48 25 42.23	228 22 39.15	4.0194614	6.198
Yellow	113 21 21.79	323 19 54.80	3.7965625	3.870

NGVD 29  
Elevations

#193

SEVEN MILE RIDGE 15'

Station: ~~SIRUCE PINE #2~~ **60M. BK. TVA #5** County: **MITCHELL** State: **N. CAROLINA**

Observer: **R. H. LYDDAN** Year: **1934** Datum: **1927 NORTH AMERICAN**

Description: About 1 mile S of Tocene on highest point in orchard owned by E. D. Bowditch.  
Signal: Flag attached to limb of 15" locust, 7 feet E of station.

Station: Drill hole in rock set in place S-55-E, 97.5 feet from center of small water reservoir on peak of hill.

To Station—	[Latitude 35 59 59.98			Longitude 82 10 47.50 ]			Distance	
	Azimuth			Back Azimuth			Log. Meters	Miles
Fig Pen Bluff	54	18	14.97	234	15	49.86	3.8820 316	4.736
Roan High Bluff	196	35	39.92	16	36	52.31	4.0324 613	6.696

NGVD 29 Elevations

#193

CONF. BK. TVA #4

SEVENMILE RIDGE 15'

Station: SPRUCE PINE #1

County: MITCHELL

State: N. CAROLINA

Observer: J. A. SHUMATE

Year: 1914 Datum: 1927 NORTH AMERICAN

Description: Bakersville, about 3 miles SE of, about  $\frac{1}{2}$  mile NE of gap where old road crosses up Snow Creek. 155 feet N-22-W of three corner fence intersection.

Signal: In top of 20" hickory, 40 feet W of top of ridge.

Station Mark: Drill hole in rock set directly under signal 10 feet N of tree.

Not occupied  
Preliminary

[Latitude 35 59 16.59

Longitude 82 06 58.75 ]

To Station—	Azimuth		Back Azimuth		Distance	
	°	' "	°	' "	Log. Meters	Miles
Fig Pen Bluff	70	25 49.64	250	22 20.66	3.9759 293	5.679
Roan High Bluff	181	45 50.71	01	45 59.11	4.0647 541	7.214

NGVD 29  
Elevations

# 193

SEVEN MILE RIDGE

Station: HORSE GAP

County: YANCY-McDOWELL State: N. CAROLINA

Observer: R. H. LYDDAN

Year: 1934 Datum: 1927 M.A.D. PRELIMINARY

Description: Comp. Bk. TVA #4

About 1 mile NE of Busick Post Office, 1/4 mile N of US route 104 at Buck Creek, about the center of wooded ridge, 40 feet N of Horse Gap Fire Tower.

NOTE: New L.O. tower under construction, azimuth to center of tower 20°16'17" distance 48.7 feet. Horse Gap triangulation station USFS, azimuth 207°50'47", 310.3 feet.

Signal: 2 flags in 24" oak tree, 12.5 feet, S 55° E from sta.

Station Mark: Standard tablet stamped "HORSE GAP-1934" set in rock.

Reference Marks: A; 27.4 feet S 40° W. B; 14.2 feet N 70° W. C; 12.6 feet N 40° E.

To Station—	[Latitude 35 46 32.22			Longitude 82 09 36.32 ]			Distance	
	Azimuth			Back Azimuth			Log. Meters	Miles
Green Knob	43	01	09.32	222	58	54.81	3.9285013	5.270
Mt. Mitchell	82	46	16.98	262	42	35.83	3.9813515	5.953
Celo	136	45	53.43	316	42	46.69	4.0678272	7.264

NGVD 29 Elevations



SEVEN MILE RIDGE 15

Station: FIG PEN BLUFF

County: YANCY COUNTY

State: N. CAROLINA

Observer: R. H. LYDDAN

Year: 1934

Datum: 1927 N.A.D. PRELIMINARY

Description: Comp. Bk. TVA #4

About 4 miles N.E. of Windham post on 2nd peak on ridge, N. of rd., through gap. 500 feet E. of cleared ridge. Said ridge being on the NE end of Green Mountain. Station near center of top.

Signal: Two flags on pole in tree 6.8 feet and N35° W from sta.

Station Mark: Standard tablet set in rock stamped "FIG PEN BLUFF-1934"

References: No. 1: 8.2 feet N 60° W.

Reference No. 2: 3.5 feet N 55° E.

Reference No. 3: 9.6 feet S 40° W.

To Station—	[Latitude 35 57 35.64			Longitude 82 14 54.50 ]			Distance	
	Azimuth			Back Azimuth			Log. Meters	Miles
Celo	00	06	45.39	180	06	44.84	4.0767858	7.415
Unaka G.S.	169	19	23.50	349	17	56.97	4.2976607	12.331
Roan High Bluff	212	03	27.38	32	07	05.01	4.2415480	10.837
Roan High Knob	215	15	11.53	35	19	38.26	4.2933683	12.210
Wilson Knob	254	40	15.59	74	44	35.40	4.0603378	7.136
Yellow	259	43	45.31	79	50	25.40	4.2390301	10.774
Three Knobs	327	13	13.29	147	17	09.25	4.2709828	11.597

NGVD 29 Elevations

193

SEVEN MILE RIDGE 12

Station: **CKLO** County: **YANCY** State: **N. CAROLINA**

Observer: **R. H. LYDDAN** Year: **1934** Datum: **1927 N.A.D. PRELIMINARY**

Description: **Comp.Bk, TVA #4**

On highest point of Celso Mountain in government meander line.  
Station Mark: Standard tablet stamped "CKLO-1934"/  
Bearing trees scribed BT 128: 16" balsam S 25° W, .05 chain.  
18" balsam N 65 30 E, .33 chain.

NOTE: Forest Service post 128 was loose and removed.

[Latitude 35 51 08.44

Longitude 82 14 55.44 ]

To Station—	Azimuth			Back Azimuth			Distance	
	°	'	"	°	'	"	Log. Meters	Miles
Mt. Mitchell	08	41	39.17	188	41	04.54	3.9928521	6.112
Pig Pen Bluff	180	06	44.84	00	06	45.39	4.0767858	7.415
Yellow	228	40	09.81	48	46	49.93	4.3570220	14.138
Woodys Knob	256	48	20.05	76	53	24.28	4.1263995	8.313
Three Knobs	290	21	16.02	110	25	12.22	4.0335251	6.713
Horse Gap	316	42	46.69	136	45	53.43	4.0678272	7.264

NGVD 29 Elevations

#193

SEVENMILE RIDGE 15

Station: WOODS KNOB CONF.BK. TVA #4 County: MITCHELL State: N. CAROLINA

Observer: H. H. LYDDAN Year: 1934 Datum: 1927 NORTH AMERICAN

Description: About 3.2 miles SW of Spruce Pine on cleared top, 25 feet SE of corner of line fence traversing top of ridge. Excellent view in all directions.

Signal: 2 flags on pole on observation platform 25 feet above ground.

Station: Standard tablet Stamped "WOODS KNOB-1934" set in rock 17.6 feet, N-15-W of signal.

RM's: #1-4us W 39.7 feet #2-N-40-E 7.1 feet #3-S-05-E 13.0 Feet.

Preliminary

[Latitude 35 52 47.21 Longitude 82 06 16.18 ]

To Station--	Azimuth			Back Azimuth			Distance		
	°	'	"	°	'	"	Log. Meters	Miles	
✓ Three Knobs	23	07	36.92	203	06	29.10	3.8693	262	4.599
✓ Mt Mitchell	48	43	27.27	226	37	38.72	4.2863	543	12.014
✓ Celo	76	53	24.28	256	48	20.05	4.1263	995	8.313
Yellow	198	49	00.15	16	50	35.67	4.1017	997	7.855
Doe Hill	229	34	56.49	49	40	34.32	4.1926	615	9.683
Whiting Spur	272	55	38.04	92	59	29.29	3.9961	405	6.159

NGVD 29 Elevations

#193

SEVENMILE RIDGE 15'

Station: SPRUCE PINE #3 CCWF.BK.TVA #3 County: YANCY State: N. CAROLINA  
 Observer: R. M. LYDDAN Year: 1934 Datum: 1927 NORTH AMERICAN

Description:

About 3 miles NW of Newdale FO on a top on the W side of a cleared field on SW end of ridge.  
 Signal: 2 flags in top of 16" locust tree.  
 Station: Drill hole in rock 2 feet E of tree and directly under flag.

Not Occupied  
 Preliminary

[Latitude 35 55 13.94

Longitude 82 11 40.46 ]

To Station—	Azimuth			Back Azimuth			Distance	
	°	'	"	°	'	"	Log. Meters	Miles
✓ Pig Pen Bluff	131	55	57.63	311	54	03.72	3.8154 021	4.062
✓ Wilsons Knob	220	02	50.18	40	05	15.96	3.9852 840	6.007

NGVD 29  
 Elevations

# 193

Station: **SPRUCE PINE # A** **COMP. BK. TVA. # 3** County: **SEVEN MILE RIDGE # 15** State: **N. CAROLINA**

Observer: **R. H. LYDDAN** Year: **1934** Datum: **1927 NORTH AMERICAN**

Description: **2 miles NW of Estatoe PO on NW end of wooded top known as the Peak; 1 mile N of road along Brush Creek.**  
**Signal: 2 flags in top of 15" hickory in fence line traversing top of ridge.**  
**Station: Drill hole in rock directly under flag.**

**Not Occupied  
Preliminary**

To Station—	[Latitude			Longitude			Distance	
	Azimuth			Back Azimuth			Log. Meters	Miles
Pig Pen Bluff	111	30	32.37	291	26	29.11	4.0477 814	6.936
Wilson's Knob	185	36	45.25	05	37	01.64	3.8544 081	4.444

NGVD 29  
Elevations

#193

SEVENMILE RIDGE 15'

Station: WILSONS KNOB COMP. BK. TVA #4 County: MITCHELL State: N. CAROLINA

Observer: R. H. LYDDAN Year: 1934 Datum: 1927 NORTH AMERICAN

Description: About 2.5 miles SE of Bakersville on the N end of Cleared top, 20 feet SW of intersection of 2 fences, 1 running N, the other NE, 9 feet W of fence running N.

Station Mark: Drill hole in rock in center of triangle.  
RMs: 1, 17.6 feet N-27-W, 2, 21.1 feet N-50-E, 3, 31.8 feet S-05-E.

Preliminary

[Latitude

Longitude

35 59 13.97

82 07 32.20 ]

To Station—	Azimuth		Back Azimuth		Distance	
					Log. Meters	Miles
Fig Pen Bluff	74 44	35.40	254 40	15.59	4.0603 378	7.136
Roan High Bluff	171 14	22.32	351 13	39.77	4.0749 649	7.384
Roan High Knob	181 13	06.27	01 13	12.78	4.1143 288	8.085

NGVD 29 Elevations

# 193

SEVEN MILE RIDGE IS

Station: **THREE KNOBS CONF. BK. #4** County: **MCDOWELL** State: **N. CAROLINA**

Observer: **R. M. LYDDAN** Year: **1934** Datum: **1927 NORTH AMERICAN**

Description: **On highest top of Three Knobs (middle one). Same station as used by F. S.**

**Station: F.S. standard concrete post #132, set 14" in ground.  
Bearing trees scribed BT 132  
18" White Oak N-85-W, 0.52 chain  
20" Birch N-38-W, 0.60 Chain.**

Preliminary

[Latitude <b>35 49 06.34</b>		Longitude <b>82 08 11.99</b> ]	
To Station—	Azimuth	Back Azimuth	Distance
			Log. Meters      Miles
Mt. Mitchell	62 52 32.30	242 48 01.75	4.1158 745 8.114
Celo	110 25 12.22	290 21 16.02	4.0335 251 6.713
Pig Pen Bluff	147 17 09.25	327 13 13.29	4.2709 828 11.5973
Waddys Knob	203 06 29.10	23 07 36.92	3.8693 262 4.599

NGVD 29 Elevations

#193

SEVENMILE RIDGE 15'

Station: SPRUCE PINE #11

County: Tazewell

State: N. Carolina

Observer: R. H. Lyddan

Year: 1931

Datum: 1927 N.A.S.D.

Description:

About 1 mi. E. of town of Cole and 1/4 mi. N. of bend in South Toe River.

Station: Drill hole in rock on N. edge of private drive; 50 ft. N-S E-W of junction with highway.

Three Point  
Preliminary

[Latitude 35 51 20.33

Longitude 82 10 57.66 ]

To Station—	Azimuth ° ' "	Back Azimuth ° ' "	Distance	
			Log. Meters	Miles
✓ Mt. Mitchell	35 49 20.12	215 46 26.33	4.1053395	7.920
• Cole	81 08 17.31	264 05 56.03	3.7780085	3.727

NGVD 29  
Elevations



# 193

SEVENMILE RIDGE-15'

Station: SPRUCE PINE #13

County: Mitchell-McDowell State: N. Carolina

Observer: R. E. Lyddan

Year: 1934 Datum: 1927 Me.A.D.

Description:

About 1/4 mi. E. of Spruce Pine, 1/4 mi. W. of hwy. at Collespie Gap, on N. slope of wooded ridge.

Signal: Flag in tree with triangle base.

Station: Drill hole in rock directly under flag.

Three Point Preliminary

[Latitude 35 51 13.21

Longitude 82 05 29.63 ]

To Station—	Azimuth		Back Azimuth		Distance	
	°	' "	°	' "	Log. Meters	Miles
Woodys Knob Yellow	123	12 15.18	303	20 31.74	3.7236856	3.289
	17E	40 10.29	358	40 02.21	4.1722040	9.237

NGVD 29 Elevations

#193

SEVENMILE ZIP CODE 15'

Station: SPRUCE PINE #9

County: Mitchell

State: North Carolina

Observer: E. E. Lyden

Year: 1934

Datum: 1927 N.A.S.

## Description:

1/2 mi. N. of Spruce Pine on N. end of cleared top.

Signal: 2 flags in 10" chestnut tree.

Station Mark: Drill hole in rock directly under flag.

Not occupied  
Preliminary

[Latitude 35 55 25.22

Longitude 82 05 53.86 ]

To Station—	Azimuth ° ' "	Back Azimuth ° ' "	Distance	
			Log. Meters	Miles
Woody's Knob	36 14 42.68	216 13 25.23	3.7608695	3.752
Whitening Spur	310 21 55.32	130 21 23.25	3.9193973	3.661

## UNITED STATES DEPARTMENT OF THE INTERIOR

## GEOLOGICAL SURVEY

## THIRD-ORDER LEVELING

Bull. 646, pg. 53 By W.S.D. Moore, 1899 4/12/65 mac Recopied	Sea Level Datum of 1929 (FEET)	
FROM MARION NORTH ALONG ROAD TO SPRUCEPINE (By W.S.D. Moore, 1899)		
Woodlawn, 0.25 mi N. of post office, at Armstrong Creek, in center of triangle formed by forks of rd.; on iron post; standard cap stamped "1395 ASH"	1393.760	
U.E., Mica, 100 ft S. of post office, 30 ft E. of centerline of rd., in solid rock; aluminum bolt (stamping obliterated)	2636.320	
MICAVILLE WEST INTO DEMOCRAT QUADRANGLE		
Micaville, in fork of rd.; 30 ft NW. of NW. corner of post office; on iron post; standard cap stamped "2504 ASH" (Not tied by 1934)	2504.572	
FROM TOECANE QUADRANGLE ALONG HIGHWAYS SOUTH AND WEST TO SPRUCEPINE THENCE WEST TO MICAVILLE THENCE SOUTHEAST TO POINT 2.6 MILES SOUTH OF CELO POST OFFICE (By L.A. Easterly, 1934)		
U.E., Spear, 1.9 mi S. of; along W. side of rd., on W. headwall of drainage pipe, chiseled square painted white	2820.81	
U.E., Ingalls, 0.9 mi N. of, along paved hwy., 3.1 mi S. of Spear by hwy., in Jones Creek bridge, about 250 ft W. of N. Toe River; on N. end of E. wingwall; chiseled square painted white	2781.22	
Ingalls, in triangular plot owned by Mr. White, 180 ft E. of intersection of hws. U.S. 19 E. and State hwy. 194, 140 ft N. of W. end of hwy. bridge over U.S. 19 E., over Three Mile Creek, 55 ft S. of hwy. 194, 25 ft W. of Three Mile Creek, cemented in rock ledge; standard tablet stamped "E 1 1934"	2775.609	
Reference mark, 160 ft S. of tablet, on E. end of hwy. bridge on U. S. 19 E. over Three Mile Creek, on N. wingwall; chiseled square	2765.46	

193  
SEVENMILE RIDGE QUADRANGLE (Cont'd. P. 3) NORTH CAROLINA  
Bk.B5307  
By L.A. Easterly, 1934 S.L.D. of 1929  
(FEET)

U.E., Penland, 0.5 mi E. of, on S. side of C.C. & O. RR., on N. bank of N. Toe River, opposite large feldspar dump on rock boulder; chiseled square with cross in center	2477.58	
U.E., Penland, 0.1 mi E. of, on W. abutment of bridge over Bear Creek, in N. wingwall; chiseled square painted white, painted "TP 2465.3" (Tied by USC&GS)	2465.891	
Penland, on S. side of C.C. & O. RR., 113 ft SW. of SW. corner of RR. station at Penland, on N. side of N. Toe River, 15 ft N. of store building, in concrete post; standard tablet stamped "E 4 1934", marked "2460" (Tied by USC&GS)	2462.413	
Reference mark, 480 ft SW. of tablet; niche chiseled in side of rock out	2461.68	
U.E., Wing, 0.9 mi E. of, about 350 ft NE. of incomplete concrete power dam over N. Toe River, on N. side of C.C. & O. RR.; square niche chiseled in rock boulder painted white	2452.47	
U.E., Boonford, 0.4 mi E. of, 150 ft NE. of N. Toe River, 8 ft NE. of centerline of C.C. & O. RR., in rock boulder; chiseled niche	2407.65	
Boonford RR. station, 140 ft N. of, on W. side of C.C. & O. RR., about 100 ft W. of N. Toe River, at N. end of deep cut on RR., in concrete post; standard tablet stamped "E 5 1934 ELEV 2399" (Tied by USC&GS)	2401.199	
Reference mark No. 1, 56 ft N. of tablet, on rock boulder; chiseled square painted white	2403.24	
Reference mark No. 2, 390 ft SE. of tablet, in boulder; top of highest steel shaft	2398.61	
ewdale Post Office, 0.8 mi W. of, 22 ft N. of N. Toe River, in ledge; standard tablet stamped "E 6 1934 ELEV 2465"	2468.043	
Reference mark, 185 ft S. of tablet, in E. column of S. pier of bridge over S. Toe River; chiseled circle (also U.S. Engineer Office B.M.)	2463.666	

193  
SEVENMILE RIDGE QUADRANGLE (Cont'd. P. 2) NORTH CAROLINA  
Bk.B5307  
By L.A. Easterly, 1934 S.L.D. of 1929  
(FEET)

U.E., Ingalls, 1.0 mi S. of, 17 ft E. of centerline of hwy. where old abandoned rd. intersects; on concrete drop inlet headwall; chiseled square	2768.69	
U.E., Ingalls, 2.1 mi S. of, along paved hwy.; on NF. end of bridge over N. Toe River, on N. wingwall; chiseled square	2642.95	
Reference mark, on S. side of hwy. (210 ft W. of tablet); in root on E. side of 15-in. oak tree; copper nail and washer	2871.61	
Lotta Post Office (discontinued 1932); about 250 ft N. of store where office was when discontinued; 45 ft S. and 50 ft W. of store owned by J.P. Gridstaff; on N. side of rd.; in concrete post; standard tablet stamped "E 2 1934 ELEV 2871"	2871.180	
U.E., Sunshine School, 0.6 mi E. of, along paved hwy., 12 ft E. of centerline of hwy., in E. headwall of drain pipe culvert under hwy., on N. end; chiseled square painted white	2819.34	
U.E., Spruce Pine, 2.0 mi NE. of, along hwy., on N. side of hwy., in N. headwall to pipe culvert; on W. end; chiseled square painted white	2800.93	
U.E., Spruce Pine, 1.2 mi E. of, along hwy., on W. end of bridge over Beaver Creek, on N. wingwall; chiseled square painted white	2596.67	
Reference mark, on concrete pump stand of Shell Oil Company filling station on Lower Street (in Spruce Pine); chiseled square with cross in center	2519.90	
Spruce Pine, in station yard, 81 ft SE. of RR. station, 46 ft NE. of C.C. & O. RR., 26 ft SW. of centerline of Lower Street, 28 ft W. of RR. crossing, in concrete post; standard tablet stamped "E 3 1934 ELEV 2517" (Tied by USC&GS)	2517.603	
U.E., Spruce Pine, 1.0 mi W. of, along N. side of C.C. & O. RR., 45 ft N. of N. Toe River, on rock ledge; chiseled with cross in square	2508.25	

NGVD 29  
Elevations

193  
SEVENMILE RIDGE QUADRANGLE (Cont'd. P. 4) NORTH CAROLINA  
Bk.B5307  
By L.A. Easterly, 1934 S.L.D. of 1929  
(FEET)

U.E., Micaville, 0.5 mi E. of, along N. side of hwy., in N. headwall of drain pipe culvert, in W. end; chiseled square painted white	2538.56	
U.E., Micaville, 130 ft E. of rd. intersection to Marion, on concrete headwall to drain pipe under hwy., in E. end; chiseled square painted white	2456.16	
Celo, 1.5 mi NW. of, along paved hwy., 30 ft E. of centerline of hwy., 65 ft W. of old hwy., on land owned by Mrs. Bell Erwin, 110 ft W. and 70 ft N. of large dwelling house, in concrete post; standard tablet stamped "E 7 1934"	2717.541	
Reference mark, 46 ft N. of tablet, in root on NW. side of 27-in. oak tree; copper nail and washer	2713.22	
FROM BOONFORD WEST TO U.S. CORP OF ENGINEERS BENCH MARK 2404.06 BM 1926 (DOUBLE RUN SPUR LINE)		
U.E., Boonford, 0.2 mi W. of, on E. end of hwy. bridge over N. Toe River, in N. curb; chiseled cross in circle (U.S. Engr. B.M.)	2403.54	
FROM MICAVILLE NORTH ALONG HIGHWAY INTO TOECANE QUADRANGLE		
U.E., Micaville, 130 ft E. of rd. intersection to Marion, on concrete headwall to drain pipe under hwy., in E. end; chiseled square painted white	2436.16	
Reference mark, 30 ft SE. of tablet, in SW. base of tree; copper nail and washer	2544.34	
Micaville, 0.2 mi W. and 1.7 mi N. of, on E. side of rd., at intersection of old rd. and new rd., 83 ft S. and 4.6 ft E. of intersection, in concrete post; standard tablet stamped "E 8 1934 ELEV 2539"	2541.214	
Double Island School, 37 ft W. of school building, 290 ft E. of hwy. bridge over Dabag Creek, 55 ft N. of N. bank of Dabag Creek, in concrete post; standard tablet stamped "E 9 1934 ELEV 2495"	2597.573	
Reference mark, 31 ft S. of tablet, in root on E. side of 18-in. beech tree; copper nail and washer	2493.14	

193  
SEVENMILE RIDGE QUADRANGLE (Cont'd. P. 5) NORTH CAROLINA  
Bk.B5307 S.L.D. of 1929  
By L.A. Easterly, 1934 (FEET)

U.E., Double Island School, 0.9 mi N. of, 42 ft N. of centerline of rd., 60 ft W. of T-rd. NW., on boulder; chiseled square painted white 2596.86

U.E., Pleasant Grove Church, 0.4 mi SE. of, 116 ft SW. of rd., W. of small stream, on boulder; chiseled square painted white 2516.23

Pleasant Grove Church, 0.6 mi NW. of, along rd., 40 ft W. of old rd. Intersection to Green Mountain, on S. bank of Little Brush Creek, on S. side of rd., opposite dwelling house of Will Hughes, in rock outcrop set in concrete; standard tablet stamped "E 10 1934 2453" 2455.674

Reference mark, 28 ft NW. of tablet, on rock outcrop; chiseled square 2449.63

FROM TOBACANE QUADRANGLE SOUTHEAST AND SOUTH ALONG HIGHWAY TO PENLAND (leveled twice)

Bakersville, 0.5 mi S. and 3.7 mi E. of, 2.9 mi N. of Bear Creek Baptist Church along rd. up White Oak Creek, on E. side of rd. at top of mountain, in top of boulder; standard tablet stamped "E 12-1934 3346" 3346.701

Reference mark No. 1, 50 ft N. of tablet, in root on W. side of 24-in. oak tree; copper nail and washer 3343.68

Reference mark No. 2, 15 ft SE. of tablet, on rock outcrop; chiseled square 3346.41

U.E., Bear Creek Baptist Church, 2.8 mi N. of, on E. side of rd., on rock outcrop; chiseled square 3227.82

Spruce Pine, 5.3 mi NW. of, along paved hwy., 2.4 mi NE. of Penland, on W. side of rd., 126 ft N. of paved hwy. to Bakersville, 250 ft NE. of concrete hwy. bridge, in rock outcrop; standard tablet stamped "E 13 1934 2622" 2623.759

Reference mark, 126 ft SW. of tablet, in large boulder that is used as abutment to bridge; chiseled square 2621.04

NGVD 29  
Elevations

193  
SEVENMILE RIDGE QUADRANGLE (Cont'd. P. 7) NORTH CAROLINA  
Bk.B5307-8 S.L.D. of 1929  
By L.A. Easterly, 1934 (FEET)

Reference mark, 41 ft NW. of tablet, in root on NE. side of 15-in. oak tree; copper nail and washer 3481.38

U.E., Little Switzerland, 2.0 mi NW. of, 110 ft N. of dwelling house, 150 ft SW. of Y-rd. intersection NE., on E. side of rd., on rock outcrop; chiseled square 3573.31

Estatoe, 2.3 mi SE. of, along N. side of rd., 50 ft E. of T-rd. S. intersection, in rock outcrop; standard tablet stamped "E 16 1934 3612" 3612.830

Reference mark, 17 ft E. of tablet, in root on SW. side of 21-in. maple tree; copper nail and washer 3609.46

U.E., Estatoe, 0.3 mi S. of, along E. side of rd., 20 ft E. of Brushy Creek, on rock outcrop; chiseled square 2651.56

U.E., Estatoe Post Office, 255 ft E. of, on E. end of concrete bridge over Brushy Creek, on S. wingwall; chiseled square 2626.80

Reference mark, 96 ft NE. of tablet, on N. concrete headwall to drain under hwy.; chiseled square 2739.97

Estatoe, 0.9 mi E. of, along S. side of U.S. Highway 19 E., 84 ft SE. of where farm rd. intersects Highway, in concrete post; standard tablet stamped "E 17 1934 2738" 2738.429

U.E., Spruce Pine, 2.0 mi SW. of, along W. side of U.S. Highway 19 E., on concrete headwall of drain under rd., on S. end; chiseled square 2890.47

U.E., Spruce Pine, 1.0 mi SW. of, along N. side of U.S. Highway 19 E., on concrete headwall of drain under rd.; chiseled square 2649.39

Spruce Pine, in station yard, 81 ft SE. of RR. station, 46 ft NE. of C.C. & O. RR., 26 ft SW. of centerline of Lower Street, 28 ft W. of RR. crossing, in concrete post; standard tablet stamped "E 3 1934 2517" (Tied by USC&GS) 2517.603

193  
SEVENMILE RIDGE QUADRANGLE (Cont'd. P. 6) NORTH CAROLINA  
Bk.B5307 S.L.D. of 1929  
By L.A. Easterly, 1934 (FEET)

U.E., Penland, 1.6 mi NE. of, 210 ft SE. of paved hwy. to Bakersville, on SE. abutment of steel bridge over Bear Creek, in S. wingwall; chiseled square 2566.87

U.E., Penland, 0.6 mi N. of, along W. side of rd., 194 ft SE. of Y-rd. NE. of Appalachian School, in rock ledge; chiseled square painted white 2559.32

Penland, on S. side of C.C. & O. RR., 113 ft SW. of SW. corner of RR. station, on N. side of N. Toe River, 15 ft N. of store building, in concrete post; standard tablet stamped "E 4 1934 2460" 2462.413

FROM POINT NEAR HUNTERS CHAPEL ALONG HIGHWAY SOUTH TO MICA THENCE NORTHWEST TO ESTATOE THENCE EAST TO SPRUCE PINE

U.E., Altapass, 0.9 mi E. and 1.2 mi N. of, 100 ft NW. of cabin, on W. side of rd., on rock ledge; chiseled square with cross in center 2603.24

Altapass Post Office, 34 ft E. of, thence 78 ft S., along W. side of rd., 300 ft N. of O.C. & O. RR. station on E. side of C.C. & O. RR., in concrete post; standard tablet stamped "E 14 1934" (Tied by USC&GS) 2621.913

Reference mark, 96 ft SE. of tablet, in root on S. side of 9-in. oak tree; copper nail and washer 2626.06

U.E., Grassy Creek Baptist Church, 1.5 mi SE. of, 105 ft N. and 80 ft E. of dwelling house on S. side of rd., on S. end of culvert over small creek, in E. end of curb; chiseled square 2692.96

U.E., Mica, 100 ft S. of barn, 30 ft E. of centerline of rd., in solid rock aluminum bolt (stamping gone, bull. 646, pg. 53) 2656.320

U.E., Grassy Creek Baptist Church, 0.2 mi S. of, along S. side of rd., in E. end of curb of culvert over Grassy Creek; chiseled square 2603.17

Little Switzerland, 0.1 mi NE. of post office, along W. side of rd. to McCall's Gap, 250 ft N. of Highway 19, 15 ft NW. of rd. crossing; in concrete post; standard tablet stamped "E 15 1934 3479" (Reported destroyed, 1951) 3479.017

193  
SEVENMILE RIDGE QUADRANGLE (Cont'd. P. 8) NORTH CAROLINA  
Bk. B5307-8 S.L.D. of 1929  
By L.A. Easterly, 1934 (FEET)

FROM POINT 1.0 MILE NORTHWEST OF LITTLE SWITZERLAND SOUTHWEST ALONG HIGHWAYS TO POINT 2.6 MILES SOUTH OF CELO POST OFFICE

Black Mountain Baptist Church, 65 ft SE., in front of church building on N. side of rd. to Crabtree Mines, on N. side of Crabtree Creek, 60 ft NW. of rd. intersection, in concrete post; standard tablet stamped "E 18 1934 317" 3171.666

Reference mark, 140 ft SE. of tablet, in root on N. side of 12-in. spruce tree; copper nail and washer 3174.75

U.E., Crabtree Falls, 0.4 mi W. of, along N. side of Crabtree Creek, on E. side of Carolina Mineral Company RR., 105 ft S. of Carolina Mineral Company supply store, on rock ledge; chiseled circle painted white 2667.94

Reference mark, 16 ft NW. of tablet; on rock ledge; chiseled square 2831.46

Murphee Falls, 0.6 mi S. of, along E. side of Carolina Mineral Company RR., on W. side of S. fork of Crabtree Creek, in rock ledge; standard tablet stamped "E 19 1934 2826" 2826.747

U.E., Sevenmile Ridge School, 0.7 mi E. of, 42 ft W. of old barn, 70 ft S. of Carolina Mineral Company RR., S. of S. fork of Crabtree Creek, on boulder, on W. end; chiseled circle 2946.43

FROM POINT 2.6 MILES SOUTH OF CELO POST OFFICE SOUTHWEST ALONG ROADS INTO OLD FORT QUADRANGLE (DOUBLE RUN SPUR LINE) (By C.A. Cluntet, 1900, L.A. Easterly and R.W. Goebel, 1934)

Celo Post Office, 2.6 mi S. of, 130 ft E. of State Highway 104, 450 ft S. of bridge over White Oak Creek, opposite old rd. to E. crossing over S. Toe River, in rock ledge; standard tablet stamped [only the center and 1/3 of tablet left; described in USGS Bull. 646, page 53] 2676.194

U.E., Celo, 3.7 mi S. of, 300 ft N. of bridge over Locust Creek, on W. side of Highway, in concrete headwall to drain under rd.; chiseled square 2706.65

U.E., Celo, 4.5 mi S. of, 100 ft S. of Carolina Hemlock Camp ground, on W. side of rd., in concrete headwall to drain pipe under hwy.; chiseled square 2766.86

Bk. B5308  
 A. Easterly, 1934 S.L.D. of 1929  
 W. Goebel, 1934

(FEET)

U.E., Celo, 5.0 mi S. of, along W. side of rd., at rd. W. that crosses river, in concrete wall to drain under rd.; chiseled square	2764.52
Celo, 6.0 mi S. of, 100 ft S. of small cabin, 50 ft W. of stream flowing NE., W. of rd. at fork, in rock ledge; standard tablet stamped "2848 ASH"	2848.196
FROM ESTATOE WEST ALONG HIGHWAYS TO POINT 8.0 MILES WEST OF NEWDALE (By R.W. Goebel, 1934; Book B5322)	
U.E., Estatoe Post Office, 255 ft E. of, on E. end of concrete bridge over Brushy Creek, on S. wingwall; chiseled square	2626.802
U.E., Estatoe, 1.2 mi NW. of, 0.1 mi W. of rd. intersection, 38 ft SW. of centerline of U.S. Highway 19 E., on boulder, chiseled square	2718.34
Spruce Pine, 5.3 mi NW. of, 135 ft N. of NW. headwall of concrete bridge on U.S. Highway 19 E., on W. bank of Crabtree Creek, at Yancey and Mitchell County line, in rock ledge; standard tablet stamped "6L 1 1934 2553"	2553.434
Reference mark, 175 ft S. 30° E. of tablet, on N. end of E. abutment of Crabtree RR. bridge; chiseled square	2551.03
U.E., Estatoe, 3.0 mi NW. of, 600 ft E. of pond, 18 ft SW. of centerline of U.S. Highway 19 E., on boulder; chiseled square	2724.20
U.E., Newdale Post Office, 125 ft E. of, at intersection of U.S. Highway 19 E. and Blue Rock Road, on S. headwall of concrete culvert; chiseled square	2553.40
Bk. B5333 By R.P. Willingham, 1934	
Busick, about 1.5 mi E. of, along State Highway 80; at Buck Creek Gap, 90 ft E. of Yancey County line; 60 ft E. of intersection of State Highway 104 and rd. N.; 12 ft N. of NW. corner of abandoned cabin; in rock ledge; standard tablet stamped "17 RPW 1934" (Reported destroyed, 1956)	3342.78
Reference mark, 60 ft W. of tablet, 12 ft N. of centerline of hwy., on boulder; chiseled square	3342.28

NGVD 29  
 Elevations