

THIRD-ORDER LEVELING
NATIONAL GEODETIC VERTICAL DATUM OF 1929

223

36-081-33
LINVILLE QUADRANGLE
223 N.C.-125 TENN.
N3600-W8145/15
DIAGRAM NJ 17-11
WINTSON-SALEM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

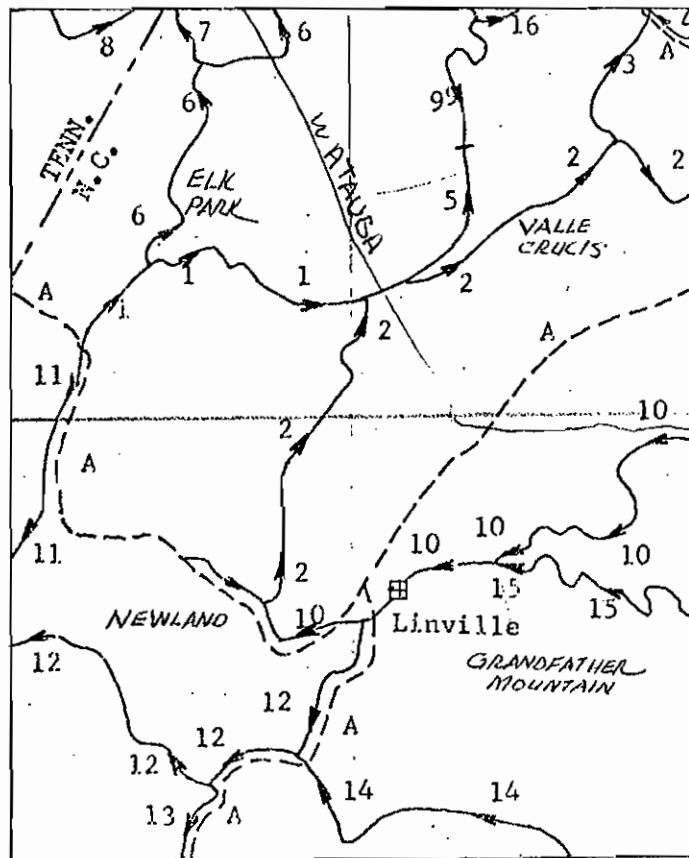
Avery and Watauga Counties, N.C.;
Carter County, Tenn.

Final adjustment of 1975

Edition of 8/6/75

PR: WSM/sws

DOE MOUNTAIN
(252 N.C.-158 TENN.)



TOECANE
(224 N.C.-126 TENN.)

BLOWING ROCK
(222)

LINVILLE FALLS
(192)

US (USC&GS) VERTICAL CONTROL DATA
A. Quadrangle 360313

NGVD 29
Elevations

223

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STAMPED "FH 3 1934
 13020"

94 To be destroyed

NGVD 29
 Elevations

LINVILLE QUADRANGLE
Book B5313

223 N.C.-125 TENN.

J. P. Fish

36-081-33
3

1934

LINE 1.

Feet

By J. P. Fish, 1934; Book B5313

"H 46 1933" (NGS) 3182.070

U.E., Heaton, 1 mi SW. of; 1.9 mi NE. of Elk Park; 14 ft E. of center-
line of State Highway 194; on rock outcrop; chiseled square 2980.30

Heaton; 61 ft W. of SW. corner of Heaton Christian Church; 50 ft
NW. of intersection of State Highway 194 and Whaley Road; 17
ft SE. of SE. corner of J. M. Heaton's store; in concrete post
projecting 3 in. above ground; standard tablet stamped
"FH 4 1934 3036" "
→ Stamped FH 4 1934 3036" 3035.847

Reference mark; 160 ft SE. of tablet; 60 ft SE. of SE. corner of
Heaton Christian Church; 30 ft S. of center of State Highway
194; in knot 4 ft above base on 12-in. locust tree; copper nail
and washer 3041.45

U.E., Heaton, 1.1 mi E. of; 30 ft NW. of center of State Highway
194; 62 ft NE. of old rd. intersection; 160 ft N. of NW. corner
of two-story white house on SE. side of rd.; on top of large
boulder; chiseled square 3284.66

Banner Elk; on Lees McRae's college campus; 40 ft E. of center of
entrance; 4 ft N. of NE. corner of North Carolina Building; in
concrete post projecting 3 in. above the ground; standard tablet
stamped "FH 7 1934 3740" 3739.549

Reference mark; 0.2 mi NE. of tablet; 16 ft S. of center of State
Highway 194; on NE. corner of Banner Elk Bank platform; chiseled
square 3702.90

LINE 2.

NGVD 29
Elevations

By M. A. Roudabush, 1934; Book B5318

Newland; in N. end of park across the street from Newland Courthouse;
9 ft W. of path running N. and S. through center of park; 140
ft S. of Presbyterian Church; in concrete post 6 in. above grade;
NGS standard disk stamped
"MAGNETIC STATION, NEWLAND NORTH B M 3621 FEET" 3621.197

Newland; 90 ft E. of NE. corner of courthouse; 75 ft W. of jail;
10 ft S. of S. edge of sidewalk; in concrete post 4 in. above
grade; NGS standard disk stamped "MAGNETIC STATION" (Note:
Post loose and leaning in 1934) 3616.403

NGVD 29
ElevationsLINE 2 (Cont'd.)Feet

"N 46 1933" (NGS)	3589.491
U.E., Newland Station, 0.9 mi E. of; 600 ft N. of public rd. and railroad; at head of rocky gorge; 250 ft E. of Kentucky fork of Toe River in Arnett pasture; 40 ft E. of second-class rd.; on bench in W. face of high micaceous shale outcrop; square cut	3725.31
U.E., Newland, 1.8 mi E. of; 1.8 mi N. of Montezuma; 15 ft W. of Sugar Mtn. Road No. 1 to Banner Elk; on top of 40 by 15 by 7 ft boulder; square cut	3783.86
Montezuma, 3.5 mi N. of, along Sugar Mtn. Road No. 1; opposite Toe River Gap N. of Loggy Mtn.; 350 ft NE. of T-rd. W.; in S. end of high ledge in Banner pasture; standard tablet stamped "MR 1 1934 833"	3832.705
Reference mark 1; 340 ft SW. of tablet; 10 ft NE. of T-rd.; on sloping ledge; square cut around knot marked with arrow pointing to tablet	3823.62
Reference mark 2; 600 ft NW. of tablet; 35 ft W. of rd.; on large slaty boulder; square cut	3808.86
U.E., Montezuma, 4.5 mi N. of; 1 mi SW. of Sugar Mtn. triangulation station; 350 ft N. of new farmhouse W. of headwaters of Toe River; 100 ft S. of deep ravine; opposite tall ornamental spruce at ruins opposite chimney rock; at W. edge of rd.; on embedded boulder; square cut	3976.43
U.E., Montezuma, 6 mi N. of; 3.4 mi S. of Banner Elk; 50 ft NE. of Sugar Mtn. Road No. 1; 150 ft NW. of face of high cliff; 0.5 mi NW. of highest peak of Sugar Mtn.; 40 ft E. of high pointed ledge in cultivated field; 3 ft above ground and 8 in. below top of small vertical outcrop; in E. face; square cut	4417.12
Banner Elk, 1.4 mi S. of; 0.2 mi SW. of Grandfather Orphanage; 500 ft W. of rd. forks; 90 ft S. of E. end of dam; in bench in high ledge; standard tablet stamped "MR 2 1934 3757"	3756.786
Reference mark; 500 ft E. of tablet; 30 ft SE. of Newland Road; 100 ft SW. of fork to Sugar Mtn.; in root on W. side of 24-in. hemlock tree; copper nail and washer	3765.05
U.E., Banner Elk, 0.5 mi S. of; 30 ft NW. of rd. fork; on NE. corner of concrete bridge over Elk Creek; 7 ft above water level; on end of wheelguard; square cut	3644.89
U.E., Banner Elk, 900 ft N. of post office; 5.5 ft N. of NE. corner of Banner Elk Bank; on concrete pavement at SW. angle of T-rd.; square cut	3702.90

LINE 2 (Cont'd.)Feet

U.E., Banner Elk; 1.1 mi NE. of; 620 ft SW. of Balm Post Office; 60 ft E. of Mt. Calvary Baptist Church; on N. end of retaining wall; square cut	3813.20
Balm, 0.4 mi E. of; 0.5 mi W. of Bowers Gap and county line; 100 ft SE. of T-rd. N. to East Prospect of Beech Mtn.; 160 ft E. of Lee Greer's residence; in pasture, top of flat embedded boulder; standard tablet stamped "MR 3 1934 3970"	3969.606
Reference mark; 80 ft NW. of tablet; 35 ft SW. of T-rd. N.; on N. end of embedded boulder; square cut	3959.43
Bowers Gap, 0.8 mi E. of; 0.7 mi W. of Matney Post Office; on E. end of N. headwall of concrete culvert; square cut	3783.03
Matney, 0.1 mi E. of schoolhouse; 450 ft NW. of rd. forks; 50 ft NW. of Craborchard Creek; in NW. end of 12 by 5 by 5-ft boulder; standard tablet stamped "MR 4 1934 3559"	3558.602
Valle Crucis; 500 ft NW. of concrete dam and bridge over Craborchard Creek; 33 ft W. of old Mission House; top of ledge; standard tablet stamped "MR 5 1934 2772"	2771.769
Reference mark; 90 ft SE. of tablet; on boulder; square cut	2762.51
Valle Crucis, 0.75 mi E. of; 300 ft SE. of triangle of rd. forks to N.; 15 ft S. of rd.; opposite W. end of cultivated bottom land; top of ledge; standard tablet stamped "MR 6 1934 2708"	2707.852
Reference mark; 650 ft NW. of tablet; N. of rd. at bend S.; in root on S. side of 36-in. oak tree; nail (old bench mark)	2706.47
U.E., Valle Crucis, 2 mi E. of; 2 mi N., thence 1.0 mi W. of Shulls Mill; in W. angle of rd. forks; 150 ft W. of horseshoe bend of Watauga River; on ledge; square cut	2718.50

LINE 3.NGVD 29
Elevations

By M. A. Roudabush, 1934; Book B5318	
U.E., Valle Crucis, 0.9 mi NW. of; at NE. corner of W. base plate of steel highway bridge over Watauga River; rivet	2666.47
Valle Crucis, 1.5 mi NW. of; 2.3 mi SW. of Vilas; 70 ft SW. of crossroads; 30 ft S. of Bairds Creek; top of detached block of ledge; standard tablet stamped "MR 7 1934 2662"	2662.462

94 To Be Destroyed

LINE 3 (Cont'd.)

Feet

Reference mark; 34 ft N. of tablet; on NE. corner of W. backwall of concrete bridge over Bairds Creek; square cut (old bench mark) 2661.49

U.E., Vilas, 0.8 mi S. of; 50 ft NE. of rd. summit at Council Gap; center of top of large flat boulder; square cut 2946.67

LINE 4.

By M. A. Roudabush, 1934; Book B5318

Vilas, 500 ft NE. of T-rd. S. (State Highway 194 at intersection with U.S. Highway 421); 300 ft N. and 400 ft W. of T-rd. N. to Dogskin Creek; at N. edge of bottom land; in top of ledge; standard tablet stamped "MR 8 1934 2761" 2760.762

Reference mark; 230 ft NW. of tablet; 350 ft NE. of intersection of highway routes; on ledge; square cut 2760.38

LINE 5.

By M. A. Roudabush, 1934; Book B5318

U.E. Balm, 0.4 mi E. of, thence 1.0 mi N.; 15 ft E. of rd. to Laurel Creek and Tom Knob; 80 ft SE. of residence of Frank P. Chappel; at NW. corner of blacksmith shop; on ledge; square cut 4157.31

U.E., Balm, 0.4 mi E. of, thence 1.7 mi N. by rd.; 100 ft E. of rd. around Beech Mtn.; 20 ft N. of NW. corner of barn on saddle at head of Laurel Creek; on top of ledge; square cut 4452.29

U.E., Balm, 0.4 mi E. of, thence 2.8 mi N.; 1 mi E. of East Prospect of Beech Mtn.; 200 ft W. of gap overlooking Bethany School and Church on headwaters of Laurel Creek; 20 ft E. of rd. at bend W. at S. edge of small clearing; 125 ft S. of gateway to trail E.; on top of embedded boulder; square cut 4614.77

Matney, 2 mi NW. of; 2 mi S. of Rominger Post Office; 0.4 mi N. of Bethany School; 300 ft N. of Ed Yates residence; 100 ft W. and 50 ft N. of T-rd. E.; in top of large embedded boulder; standard tablet stamped "MR 10 1934 4060" 4060.268

Reference mark; 2 ft S. of tablet; on same rock; circle cut 4060.50

LINE 6.

By J. P. Fish, 1934; Book B5313

NGVD 29
Elevations

U.E., Heaton, 1.1 mi NE. of; 7 ft SE. of center of rd.; 3.7 ft above ditch line of rd.; on top of boulder; chiseled square 3130.54

LINE 6 (Cont'd.)

Feet

Heaton, 3.0 mi N. of; 15 ft W. of center of rd.; in fence corner on saddle of three forks ridge; in concrete post projecting 4 in. above ground; standard tablet stamped "FH 1 1934 3603"	3602.401
U.E., Heaton, 4.2 mi N. of; 65 ft S. of SW. corner of frame barn N. of rd.; 12 ft N. and 7 ft above centerline of rd. on rock outcrop; chiseled square	3790.51
U.E., Heaton, 5.1 mi N. of; 65 ft E. of center of rd.; in S. end of SW. step base of Fall Creek Baptist Church; chiseled square	3974.62
U.E., Heaton 5.7 mi N. of; 9 ft SE. of center of rd.; 165 ft E. of Dark Ridge Schoolhouse; on rock outcrop; chiseled square	3933.21
Heaton, 6.5 mi N. of; 14 ft NE. of center of rd.; 18 ft N. of small drain; 8 ft S. of small boulder; in rock outcrop; standard tablet stamped "FH 2 1934 4037"	4036.631
Reference mark; 455 ft NW. of tablet; 17 ft W. of center of rd.; in root of 16-in. chestnut tree; copper nail and washer	4043.64
U.E., Whaley, 1.6 mi S. of; 20 ft NE. of center of rd.; 100 ft SE. of a one and one-half story house; on corner stone of SW. corner of log barn; chiseled square	3911.81
Whaley; 17 ft NE. of SE. corner of Whaley Post Office; 21 ft NW. of center of rd.; 100 ft SW. of state line-Buckeye Road forks; in concrete post projecting 4 in. above ground; standard tablet stamped "FH 3 1934 3561"	3560.258
U.E., Whaley, 1.0 mi E. of; 6 ft NE. of center of Buckeye Road; on rock outcrop; chiseled square	3316.74
U.E., Whaley, 1.9 mi E. of; 5 ft NE. of center of Buckeye Road; on rock outcrop; chiseled square	3078.93
Whaley, 3.0 mi E. of; 35 ft SE. of Buckeye-Beech Creek Road intersection; 200 ft NW of point where Buckeye Creek empties into Beech Creek; in top of boulder projecting 18 in. above ground; standard tablet stamped "FH 5 1934 2736"	2735.953
Reference mark; 40 ft N. of tablet; 18 ft E. of center of rd.; in ground root of 14-in. water birch tree 16 in. N. of base of tree; copper nail and washer	2732.85

LINE 7.

By J. P. Fish, 1934; Book B5313

NGVD 29
Elevations

U.E., Whaley, 1.1 mi N. of; 25 ft SW. of center of Flat Springs Road; on corner stone at N. corner of E. L. Mitchells small store; chiseled square	3624.98
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1934

LINE 8.

Feet

By J. P. Fish, 1934; Book B5313

U.E., Beech Creek, 4.3 mi SE. of; 12 ft SE. of center of temporary
Route 603; on rock outcrop in cut; chiseled square 2699.45

LINE 9.

By J. P. Fish, 1934; Book B5313

Watauga Falls, 5.7 mi W. of Vilas; in SW. abutment of 210 ft span
steel bridge over Watauga River; standard tablet stamped
"FH 9 1934 2637" 2636.082

Reference mark; 230 ft NW. of tablet; 26 ft NW. of NW. abutment
of bridge on rock outcrop; chiseled square 2639.13

U.E., Watauga Falls, 1.6 mi SW. of; 75 ft N. of center of Beech
Mtn. Road; in field; on long boulder; chiseled square 2746.91

U.E., Watauga Falls, 1.1 mi SW. of; 6 ft SW. of center of Beech Mtn.
Road; on rock outcrop; chiseled square 3025.27

Rominger, 0.4 mi SE. of; 50 ft S. of T-rd. N.; in top of boulder;
standard tablet stamped "FH 10 1934 3379" 3378.651

Reference mark; 240 ft SE. of tablet; 35 ft SW. of center of Beech
Mtn. Road; on flat boulder; chiseled square 3388.22

U.E., Watauga Falls, 4.0 mi SW. of; 35 ft E. of center of Beech Mtn.
Road; top of large boulder in field, chiseled square 3575.18

LINE 10.

By R. P. Willingham, 1934; Book B3528

Blowing Rock, 6.7 mi SW. of; 70 ft N. of intersection of T-rd.
NW.; 150 ft W. of Blue Moon Service Station; 60 ft NW. of center-
line of State Highway 28; in concrete post; standard tablet
stamped "RPW 14 1934 3555" 3554.631

Reference mark; 40 ft SE. of tablet; on W. end of concrete headwall;
chiseled square 3549.95

U.E., Blowing Rock, 8.5 mi SW. of; 15 ft W. of centerline of State
Highway 28; 30 ft E. of waterfall over large ledge; on NW. corner
of W. headwall of concrete highway bridge; chiseled square 3881.71

LINE 10 (Cont'd.)Feet

Blowing Rock, 9.3 mi SW. of; 250 ft S. of intersection of plank rd. W.; 50 ft S. of small drain crossing; 30 ft W. of centerline of State Highway 28; in top of boulder; standard tablet stamped "RPW 15 1934 3972"	3971.744
Reference mark; 60 ft N. of tablet; on NW. corner of concrete headwall of culvert; chiseled square	3968.81
U.E., Blowing Rock, 10.6 mi SW. of; 20 ft N. of rd. intersection 150 ft NE. of Avery-Caldwell County line; 15 ft NW. of centerline of State Highway 28; on end of concrete headwall of drainpipe; chiseled square	3972.88
U.E., Blowing Rock, 11.8 mi SW. of; 75 ft E. of rd. intersection; 15 ft NE. of centerline of State Highway 28; on E. end of masonry headwall of drainpipe; chiseled square	4000.49
U.E., Blowing Rock, 12.9 mi SW. of; 7.2 mi NE. of Linville; 15 ft E. of centerline of State Highway 28; on NE. corner of masonry headwall of drainpipe; chiseled square	4054.67
Linville, 6.5 mi NE. of; at S. edge of circular parking space on highway; 100 ft S. of rd.; on top of large rock; standard tablet stamped "RPW 16 1934 4006"	4006.018
Reference mark; 40 ft NE. of tablet; on N. end of flat rock; chiseled square	4005.97
U.E., Linville, 5.4 mi NE. of; at SE. corner of parking space on highway; 50 ft E. of rd.; on boulder 5 ft above surface of rd.; chiseled square	4158.97
Linville, 4.4 mi NE. of; 20 ft SE. of drain crossing; 20 ft NW. of rd. intersection; 30 ft S. and on opposite side of highway from high boulder; on high knob of boulder; chiseled square	4135.49
Linville, 3.8 mi NE. of depot; on S. slope of Grandfather Mountain; 110 ft SE. of intersection of new rd. to Grandmother Gap; in top of ledge; standard tablet stamped "S L 3 1934 4203"	4202.526
Reference mark; 75 ft N. of tablet; 40 ft SE. of rd. forks; in W. side of base of 12-in. chestnut tree; copper nail and washer	4204.08
U.E., Linville, 3.3 mi NE. of; 40 ft NE. of centerline of State Highway 28; 30 ft NE. of drainpipe; on highest point of boulder; chiseled square	4273.63

LINE 10 (Cont'd.)Feet

Linville, 2.6 mi NE. of; 750 ft W. of J. A. McRae's Store; 250 ft NE. of T-rd. S.; 120 ft N. of centerline of State Highway 28; set in rock ledge; standard tablet stamped "RPW 12 1934 4279"	4279.124
Reference mark; 30 ft S. of tablet; on rock ledge; chiseled square	4272.64
U.E., Linville, 2.0 mi NE. of; 20 ft S. of centerline of Highway 221 (State 28); on SW. corner of masonry headwall of drainpipe; chiseled square	4139.84
U.E., Linville, 1.0 mi NE. of; 30 ft E. of centerline of U.S. Highway 221; (State 28) on NE. corner of masonry headwall of drainpipe; chiseled square	3774.60
"Q 46 1933" (NGS)	3623.031

LINE 11.

By Robert W. Goebel, 1934; Book B5321

"J 46 1933" (NGS)	3201.631
U.E., Cranberry, 1.1 mi S. of; 0.9 mi N. of railroad bridge over State Highway 69; 13 ft E. of E. rail; on rock outcrop; chiseled square	3371.27
"K 46 1933" (NGS)	3512.627
U.E., Minneapolis, 0.4 mi N. of; 2.9 mi S. of Cranberry; in N. end of W. headwall of highway culvert over Little Horse Creek; 15 ft S. from S. rail of spur track; square cut	3290.70
U.E., Minneapolis, 0.3 mi SW. of; 1.4 mi NE. of Frank; on S. end of E. headwall of highway bridge over Goose Neck Branch; square cut	3162.06

LINE 12.

By Robert W. Goebel, 1934; Book B5321

U.E., Linville Depot, 2.0 mi S. of; 100 ft S. of highway bridge; 150 ft SW. of dam; 35 ft SE. of centerline of highway; at rd. intersection; on rock outcrop; square cut (Tied by NGS, 1934)	3627.332
Linville, 2.9 mi S. of; 70 ft SE. of one-story frame house; 30 ft SE. of centerline of U.S. Highway 221; in concrete post projecting 4 in. above the ground; standard tablet stamped "GL 6 1934 3591" (Tied by NGS, 1934)	3590.436

LINE 12 (Cont'd.)Feet

Reference mark; 645 ft N. of tablet; 260 ft SW. of Floral building; 13 ft W. of centerline of highway; on W. headwall of culvert; square cut	3590.63
U.E., Pineola, 0.7 mi NW. of; 12 ft E. of centerline of U.S. Highway 221; on E. headwall of concrete culvert; square cut	3521.02
Pineola, 1.2 mi W. of; 410 ft NE. of junction of State Highway 194 and U.S. 221; 115 ft E. of centerline of Highway 194; 5 ft below surface of rd.; on E. bank of Mill Timber Creek; on rock ledge; standard tablet stamped "GL 7 1934 3437"	3436.429
Reference mark; 160 ft S. of tablet; 250 ft NE. of junction of State Highway 194 and U.S. 221; on E. bank of Mill Timber Creek; on rock ledge; square cut	3433.46
U.E., Crossnore, 1.2 mi E. of; 2.1 mi SW. of Pineola; 25 ft E. of centerline of hwy.; on rock outcrop; square cut	3359.380
U.E., Crossnore, 0.5 mi SE. of; at intersection of U.S. 221 and Crossnore Road; 23 ft S. of centerline of hwy.; on rock outcrop; square cut (Tied by NGS, 1934)	3330.584
Crossnore, on SE. corner of Community Exchange Inc.; on rock wall; bench mark	3361.99
Crossnore, 1.1 mi NW. of; at intersection of Pop Creek and small stream; 60 ft NW. of bridge; at intersection of sharp curve in rd.; on concrete post projecting about 6 in. above the ground; standard tablet stamped "GL 8 1934 3587"	3586.661
U.E., Crossnore, 1.5 mi NW. of; 200 ft S. of private graveyard; 30 ft S. of centerline of rd.; on boulder; square cut	3691.51
U.E., Crossnore, 2.2 mi NW. of; 60 ft W. of rd. intersection; 10 ft above surface of rd.; on boulder; square cut	3755.54
U.E., Crossnore, 3.2 mi NW. of; 530 ft S. of rd. intersection; 23 ft E. of centerline of rd.; on rock outcrop; square cut	3810.29
Hughes Post Office, 0.3 mi NW. of; 3.8 mi E. of Frank; 55 ft SW. of bridge over small stream; 75 ft NE. of E. bank of Squirrel Creek; 4.5 ft below surface of rd.; on rock ledge; standard tablet stamped "GL 9 1934 3758"	3758.233
Reference mark, 32 ft W. of tablet; 70 ft SW. of bridge; 60 ft NE. of E. bank of Squirrel Creek; on rock ledge; square cut	3750.60

LINE 12 (Cont'd.)Feet

U.E., Frank, 2.0 mi E. of; 25 ft S. of centerline of rd.; 75 ft N. of house; 7 ft below surface of rd.; on rock ledge; square cut 3319.10

U.E., Frank, 1.0 mi S. of; 295 ft N. of low water bridge; 15 ft E. of E. bank of N. Toe River; on rock outcrop; square cut 3031.74

LINE 13.

By R. W. Goebel, 1934; Book B5321

Altamont, 1.6 mi N. of; at rd. intersection; 30 ft E. of centerline of State Highway 28; 4 ft below surface of rd.; in concrete post projecting about 5 in. above ground; standard tablet stamped "GL 10 1934 3299" 3298.678

Reference mark, 300 ft N. of tablet; 5 ft below surface of rd.; on E. headwall of highway culvert; square cut 3305.97

LINE 14.

By R. P. Willingham, 1936; Book B6910

Edgemont, 2 mi E. of; 100 ft NW. of T-rd. S. to Mortimer; 120 ft NE. of rd. N. at E. edge of CCC camp grounds; 30 ft N. of centerline of rd.; in concrete post; standard tablet stamped "K 28 1934" 1517.718

Reference mark, 30 ft SE. of tablet; in SW. base of 24-in. pine tree; copper nail and washer 1513.75

Edgemont, 0.4 mi S. of post office; 100 ft W. of intersection of T-rd. W. to Pineola; 20 ft NW. of NW. corner of residence; 30 ft SE. of railroad crossing; 12 ft S. of centerline of rd.; in concrete post; standard tablet stamped "K 29 1934" 1562.844

Reference mark, 120 ft E. of tablet; in root on SW. side of 6-in. sycamore tree; copper nail and washer 1554.03

Edgemont, 2.8 mi W. of; 10.3 mi E. of Pineola; 40 ft N. of centerline of rd.; at small turnout to N., in concrete post; standard tablet stamped "K 30 1934" 2360.548

Reference mark, 50 ft SE. of tablet; in root on W. side of 18-in. oak tree; copper nail and washer 2358.60

Pineola, 6.8 mi SE. of; 3.0 mi E. of Overhead Bridge School; 15 ft SW. of 30-in. poplar tree; 40 ft S. of centerline of rd.; in concrete post; standard tablet stamped "K 31 1934" 3050.581

Reference mark, 35 ft NE. of tablet; in root on N. side of 10-in. stump 4 ft high; copper nail and washer 3044.19

LINE 14 (Cont'd.)

Feet

U.E., Pineola, 4.4 mi SE. of; 1.0 mi E. of Overhead Bridge School;
100 ft NW. of western entrance to Daniel Boone State Game Refuge;
50 ft N. of centerline of rd.; 1-in. square cut in boulder 3587.71

Pineola, 3.4 mi SE. of; about 0.2 mi N. of Overhead Bridge School;
50 ft N. of intersection of T-rd. S. to Jonas Ridge; on N. side
of rd.; in concrete post; standard tablet stamped "R 32 1934" 3792.644

Reference mark, 20 ft E. of tablet; in root on W. side of 6-in.
oak tree; copper nail and washer 3790.62

LINE 15.

By R. P. Willingham, 1936; Book B6910

Gragg Post Office, 60 ft S. and 20 ft E. of front entrance; 45 ft SE.
of rd. forks; 20 ft E. of sign post; in concrete post; standard
tablet stamped "K 25 1934" 2669.696

Reference mark; 100 ft W. of tablet; on root on E. side of 18-in.
oak tree; copper nail and washer 2695.71

Gragg Post Office, 2.7 mi NW. of; 25 ft E. of dim rd. fork W.;
110 ft SE. of galvanized culvert; 20 ft E. of centerline of rd.;
on bank; in concrete post; standard tablet stamped "K 26 1934" 3391.580

Reference mark, 100 ft N. of tablet; in root on W. side of 14-in.
poplar tree; copper nail and washer 3397.66

U.E., Gragg Post Office, 4.7 mi NW. of; 40 ft SW. of centerline of
bridge; 15 ft S. of stream; 30 ft W. of centerline of hwy.; on
top of large boulder; chiseled square 3921.68

"SL 3 1934 4203" (Described in line 10) 4202.526

LINE 16.

By R. P. Willingham, 1936; Book B6910

U.E., Whaley, 3.7 mi NW. of; 100 ft N. of second-class T-rd. E.;
6 ft E. of center of N.-S. rd.; on small boulder; chiseled square 2923.81

Whaley, 4.2 mi NW. of; 130 ft NE. of center of rd.; 180 ft NE. of
NE. corner of Poga Christian Church; set in bottom step of S.
corner of Poga School; standard tablet stamped "FH 4 1934 2717" 2716.710

Reference mark, 180 ft SW. of tablet; 36 ft S. of center of rd.;
on NE. corner stone of Poga Christian Church; chiseled square 2706.92

U.E., Whaley, 5.4 mi NW. of; 8 ft NE. of center of rd.; on rock
outcrop; chiseled square 2585.38