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 4/12/65 mac (FEET) 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 centerline of rd., in solid rock; aluminum bolt (stamping 2656.320 obliterated) 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" 2504.572 (Not tied by 1934) 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 2820.81 white 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 2781.22 square painted white 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

193 SEVENMILE RIDGE QUA Bk.B5307 By L.A. Easterly, 19		(Contid. P. 2)		RTH CAROLINA
,pg 11,11, 12000 001 13, 9 12)	J.		J.,	
U.E., Ingalls, 1.0 m				
where old abandone headwall; chiseled		ects; on concrete	drop in	1et 2768.89
U.E., Ingalls, 2.1 m of bridge over N. square				2642.95
Reference mark, on S in root on E. side washer	. side of hw of 15-in. o	y. (210 ft W. of t ak tree; copper na	tablet); ail and	2871.61
Lotta Post Office (d store where office 50 ft W. of store of rd.; in concret "E 2 1934 ELEV 287	was when di owned by J.P e post; stan	scontinued; 45 ft . Gridstaff; on N.	S. and side	2871.180
U.E., Sunshine Schoo 12 ft E. of center drain pipe culvert square painted whi	line of hwy. under hwy.,	, in E. headwall o	of	2819.34
U.E., Spruce Pine, 2 of hwy., in N. hea chiseled square pa	dwall to pip	, along hwy., on Ne culvert; on W. e	N. side end;	2800.93
U.E., Spruce Pine, 1 bridge over Beaver square painted whi	Creek, on N			2596.67
Reference mark, on c filling station on chiseled square wi	Lower Stree	t (in Spruce Pine)		1y 2519.90
Spruce Pine, in stat ft NE. of CC. & O. Street, 28 ft W. o standard tablet st. by USC&GS)	RR., 26 ft : f RR. crossi	SW. of centerline ng, in concrete po	of Lower	2517.603
U.E., Spruce Pine, 1 CC. & O. RR., 45 f ledge; chiseled wi	t N. of N. To	e River, on rock		2508.25

The second second

193	
Bk.B5307	NORTH CAROLINA
By L.A. Easterly, 1934	S.L.D. of 1929
	(FEET)
U.E., Penland, 0.5 mi E. of, on S. side of CC. & 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, O.l mi E. of, on W. abutment of bridge of Bear Creek, in N. wingwall; chiseled square painted white, painted "TP 2465.3" (Tied by USC&GS)	ver 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)	e 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	e 2452.47
U.E., Boonford, O.4 mi E. of, 150 ft NE. of N. Toe River 8 ft NE. of centerline of C.C. & O. RR., in rock bould chiseled niche	
Boonford RR. station, 140 ft N. of, on W. side of C.C. & RR., about 100 ft W. of N. Toe River, at N. end of decut on RR., in concrete post; standard tablet stamped "E 5 1934 ELEV 2399" (Tied by USC&GS)	
Reference mark No. 1, 56 ft N. of tablet, on rock boulde chiseled square painted white	er; 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

•					
Bk.B5307	IDGE QUADRANGLE	(Cont'd. P. 4)	NORTH		
By L. A. Eas	terly, 1934		S.L.D.	Of (FEE	
	l of drain pipe culv	long N. side of hwy., ert, in W. end; chisel		2538	. 56
on concret		. intersection to Mari pipe under hwy., in E.		2456	.16
of hwy., 6 Erwin, 110	of tw. of old hwy.,	hwy., 30 ft E. of cen on land owned by Mrs. of large dwelling hous stamped "E 7 1934"	Bell	e 2717	.541
	rk, 46 ft N. of tabl tree; copper nail a	et, in root on NW. sid nd washer	e of	2713	.22
	O WEST TO U.S. CORP 926 (DOUBLE RUN SPUR	OF ENGINEERS BENCH MAR	K		
over N. To	River, in N. curb; B.M.)	E. end of hwy. bridge chiseled cross in cir		2403	.54
concrete he		. intersection to Marie e under hwy., in E. en		2 456	.16
	rk, 30 ft SE. of tab Land washer	let, in SW. base of tr	ee;	2544	.34
rd., at int and 4.6 ft		mi N. of, on E. side of and new rd., 83 ft S in concrete post; 934 ELEV 2539"	•	2541	.214
 E. of hwy.	bridge over Dabag Creek, in concrete po	f school building, 290 reek, 65 ft N. of N. bast; standard tablet standard	ank	2 ⁵ 97	•573
	ck, 31 ft S. of table tree; copper nail	et, in root on E. side and washer	of	2493	.14.

193 SEVENMILE RI Bk.B5307	DGE QUADRANGLE	(Cont 'd. P. 5)	NORTH	CARC	LINA
By L.A. Easte:	rly, 1934		S.L.D.	. of	1929
				(FEE	T)
centerline of		i N. of, 42 ft N. of T-rd. NW., on boulder	;	2596	.86
	of small stream, on	mi SE. of, 116 ft SW. boulder; chiseled		2516	.23
W. of old rebank of Litted dwelling how	d. intersection to G tle Brush Creek, on	of, along rd., 40 ft reen Mountain, on S. S. side of rd., oppost in rock outcrop set in ed "E 10 1934 2453"		2455	.674
Reference mark	c, 28 ft NW. of tabl	et, on rock outcrop;		2449	.63
FROM TOECANE OF TO PENLAND (16		AND SOUTH ALONG HIGH	VAY		
Bear Creek I	Saptist Church along	mi E. of, 2.9 mi N. o rd. up White Oak Cree ntain, in top of bould 934 3346"	ek,	3346	.701
Reference mark side of 24-1	No. 1, 50 ft N. of n. oak tree; copper	tablet, in root on W. nail and washer		3343	.68
Reference mark chiseled squ		f tablet, on rock outo	rop;	3346	.41
	eek Baptist Church, pock outcrop; chisel	2.8 mi N. of, on E. si ed square		3227	.82
of Penland, to Bakersvil	on W. side of rd., le, 250 ft NE. of corop; standard table	paved hwy., 2.4 mi NE 126 ft N. of paved hwy oncrete hwy. bridge, t stamped		2623	750
		let, in large boulder		~~Z	• 1 77
that is used	as abutment to brid	dge; chiseled square		2621	. O4

193 SEVENMILE RIDGE QUADRANGLE (Cont'd. P. 6) Bk.B5307	NORTH CAROLINA
	S.L.D. of 1929
	(FEET)
U.E., Penland, 1.6 mi NE. of, 210 ft SE. of paved hwy. Bakersville, on SE. abutment of steel bridge over Bear Creek, in S. wingwall; chiseled square	
U.E., Penland, O.6 mi N. of, along W. side of rd., 194 of SE. of Y-rd. NE. of Appalachain School, in rock ledge chiseled square painted white	
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 MITHENCE NORTHWEST TO ESTATOE THENCE EAST TO SPRUCE PINE	ICA
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 squawith cross in center	
Altapass Post Office, 34 ft E. of, thence 78 ft S., alor W. side of rd., 300 ft N. of C.C. & O. RR. station on side of C.C. & O. RR., in concrete post; standard table stamped "E 14 1934" (Tied by USC&GS)	Ē.
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., of S. end of culvert over small creek, in E. end of curb; chiseled square	on
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)	
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, O.1 mi NE. of post office, along W. side of rd. to McCalls Gap, 250 ft N. of Highway 19, 1 ft NW. of rd. crossing; in concrete post; standard tab stamped "E 15 1934 3479" (Reported destroyed, 1951)	

193		
SEVENMILE RIDGE QUADRANGLE (Cont'd. P. Bk.B5307-8	7) NORTH	CAROLINA
By L.A. Easterly, 1934	S.L.D	. of 1929
		(FEET)
Reference mark, 41 ft NW. of tablet, in root 15-in. oak tree; copper nail and washer	on NE. side of	3481.38
U.E., Little Switzerland, 2.0 mi NW. of, 110 ing house, 150 ft SW. of Y-rd. intersection of rd., on rock outcrop; chiseled square		e 3573.31
Estatoe, 2.3 mi SE. of, along N. side of rd. T-rd. S. intersection, in rock outcrop; st stamped "E 16 1934 3612"		3612.830
Reference mark, 17 ft E. of tablet, in root 21-in. maple tree; copper nail and washer	on SW. side of	3609.46
U.E., Estatoe, 0.3 mi S. of, along E. side of Brushy Creek, on rock outcrop; chiseled		2651.56
U.E., Estatoe Post Office, 255 ft E. of, on Screte bridge over Brushy Creek, on S. wings square		2626.80
Reference mark, 96 ft NE. of tablet, on N. co to drain under hwy.; chiseled square	oncrete headwall	2739.97
Estatoe, 0.9 mi E. of, along S. side of U.S. 84 ft SE. of where farm rd. intersects Hig concrete post; standard tablet stamped "E.	ghway, in	2738.429
U.E., Spruce Pine, 2.0 mi SW. of, along W. st Highway 19 E., on concrete headwall of drat on S. end; chiseled square		2890.47
U.E., Spruce Pine, 1.0 mi SW. of, along N. st Highway 19 E., on concrete headwall of drat chiseled square		2649.39
Spruce Pine, in station yard, 81 ft SE. of RF 46 ft NE of C.C. & O. RR., 26 ft SW. of ce of Lower Street, 28 ft W. of RR. crossing, post; standard tablet stamped "E 3 1934 251	enterline in concrete	0515 (00
USC&GS)		2517.603

Camp ground, on W. side of rd., in concrete headwall

to drain pipe under hwy.; chiseled square

2766.86

A193

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 inplace 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 traverseing 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)

SEVEN MILE RIDGE QUADRANGLE 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 locusttree 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 35 56 14.70 N. Toe river 5720 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

Station: SPRECE PINE 49

DENEMINE 15100E 15' County: m tehell

State: Burth Carell

Observer: Le Le Lydden

Year: 1934

Datum: 1927 5.4. Da

Description:

mi. H. of Spruce Pine on H. and of elected top. Signal: R flags in 10" chestant tree.

Station Mark: Drill hole in rock directly under flag.

Not esexpied Proliminary

NGVD 29 Elevetions

To Station— Azimuth				Dis	tance
·	r #	-	/ ; #	Log. Meters	Mile
		216 13 130 2 1	25,23 23,25	3.7608695 3.9193973	3.752 5.361
			-		
	•				
	, 36 Yi	Azimuth 7 76 146.68 310 21 55.32	Azimuth Ba	Azimuth Back Azimuth 216 13 25.23 130 21 55.32 Back Azimuth 216 13 25.25	Azimuth Back Azimuth Log. Meters 36 11, 142.68 310 21 55.32 216 13 25.25 3.7801695 3.9193973

Station: SPROCE PINE TO

County: Mitchell

SEVERMILE PRIDGE 15' State: No Carolina

Observer: Jo Lo Williams

Year: 1951, Datum: 1927 H.1.3.

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

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

Station Marks Drill nole in reak directly under signal.

Three Peint Proliminary

Longitude & 14 27.22 [Latitude 35 56 08.92 Distance To Station-**Back Azimuth** Azimuth Miles Log. Meters Calo 04 22 21,00 126 to 14.13 3.9679111 5-791 206 LL 56.14 4.1396661 Woody's Encb 8,571 Elevetions

Form 9-107a

U. S. GOVERNMENT PRINTING OFFICE

SEVENMUE RIPLE 15

"Station: SPEUCE PIES #7

County:

Mitchell.

Observer: Ro No Lardan

Year:

State:

No Careline

Description:

1934 Datum:

1927 N.A.D.

George Mt. TTA 45

About 3 mi. Hz. of Syrues Pine on SE, and of top in We side of cleared field, 10 ft. W. of line fence traverseing ridge.

Station: Brill hole in rock directly under flag, triangle blase on tree.

Not securied Prolining

Il atitude 35 56 12.40

[Latitude	e 77 70 FEMB	Longitude 🚾 📭		
To Station-	Azimuth	Back Azimuth	Dista	nce
· ·	0 / "	0 / 1	Log. Meters	Miles
Yordys Each Yellow	16 25 12.23 113 21 21.79	323 19 54.20 328 22 39.15	4.0191611 3.7965615	6.498 3.890
			NGVD 29 Elevations	•

SEVENAILE RIGGE 15'

SIRUCE PINE #2

CONF.BK.TVA #5County:

MITCHELL

State: M.CAROLINA

Description:

Observer: R. H. LYDDAN

Year: 1931 Patum: 1927 HORTH AMERICAN

About 1 mile 8 of Tocane on highest point in orchard owned by E. D. Bowditch.

Bignal: Flag attached to limb of 15" locust, 7 feet E of station.

Station: Drill hole in rock set in place 8-55-E, 97.5 feet from center of small water reservoir on peak of hill.

[Latitude	15-59	59 .	98		ongit	C21	0 47.50	
To Station—		Azimu	ith	Ba	ck Azir	nuth	Dista	nce
	•	,	*	O	,		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	6,69 6
							No.	•
							NGVD 29 Elevations	
orm 8-107a								

COMF.BK.TVA #4

ENMILE PIDGE 15'

Station: SPRUCE PINS #1

County: MITCHELL

State: M. CAROLINA

Observer: J. A. SHUKATE

Year: 1934 Datum: 1927 NORTH AMERICAN

Description: Bakersville, about 3 miles \$2 of, about & mile NE of gap where old road erosses up \$2000 Creek. 155 feet N-22-E of three sorner fence intersection.

Signal: In to: 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	5 59	18	.59	Lon	gitude გ	98 58.7 5 1		
To Station—		Aziı	muth	Back	Azimuth	Distance		
	0	,	*	٠ ٥	•	Log. Meters	Miles	
Pig 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		
						**OVations		

Station: HORSE GAP

SEVERMICE PIOCE!
County: YANCY-No DOWELL State: N. CAROLIN

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

Description: Comp. Bk. TVA

About 1 mile ME of Busick Post Office, & mile M of WS routs 104 at Buck Creek, about the center of wooded ridge, 40 feet M of Morse Gap Fire Tower.

NOTE: New L.O. tower under construction, asimuth 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, \$ 55° % from Sta.

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

Reference Marks: A; 27.4 feet 8 40° W. B; 14,2 feet N 70° W. C; 12.6 feet N 40° R.

To Station—	* 35 46	Azim	nuth		Back Azi	muth	36.32) Distar	nce
	•	,	-	0	,	*	Log. Meters	Miles
Green Knob Mt. Mitchell Celo	43 82 136	01 46 45	09.32 16.98 53.43	222 262 316	58 42 42	54.81 35.83 46.69	3.9285013 3.9813515 4.0678272	5.270 5.953 7.264
							NGVD 29 Elevations	

SEVENMUE RIPGE 15

Station: PIG PEN BLUFF

County: YARCY COUNTY

State: N. CAROLIN

Observer: R. H. LYDDAN

Year: 1934 Datum: 1997 W.A.D. PRELYNTNARY

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

Reference No. 2: 3.5 feet N 50° N.
Reference No. 2: 3.5 feet N 55° E.
Reference No. 3: 9.6 feet S 40° N.

[Latitude _	5 57	26	-6h	Longitude 82 14 54 50 1					
To Station	Azimuth		Back A		Distance				
	•	,	*	• ,		Log. Meters	Miles		
Unaka G.S. Roan High Bluff Roan High Knob Wilson Knob Yellow Three Knobs	20 169 212 215 254 259 327	06 19 15 40 43 13	45.39 23.50 27.38 11.53 15.59 45.31 13.29	180 06 349 17 32 07 35 19 74 44 79 50 147 17	44.84 56.97 05.01 38.26 35.40 25.40	4.0767858 4.2976607 4.2415480 4.2933683 4.0603378 4.2390301 4.2709828	7.415 12.331 10.637 12.210 7.136 10.774 11.597		
Form 9-1078									

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EVERMICE RINGE 12

Station: CELO

County: YANCY

State: W. CAROLINA

Observer: R. M. LYDDAN

Year: 1934 Datum: 1927 N.A.D. PRELININARY

Description: Comp.Bk, TVA #4

On highest point of Celo 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.

MOTE: Forest Service post 128 was loose and removed.

Mt. Mitchell 08 41 39.17 188 41 04.54 3.9928521 6.1 Pig Pen Bluff 180 06 44.84 00 06 45.39 4.0767858 7.2 Yellow 228 40 09.81 48 46 49.93 4.3570220 14.3 Woodys Knob 256 48 20.05 76 53 24.26 4.1263995 8.3 Three Knobs 290 21 16.02 110 25 12.22 4.0335251 6.7 Whorse Gap 316 42 46.69 136 45 53.43 4.0678272 7.2	Distance		
Pig Pen Bluff 180 06 44.84 00 06 45.39 4.0767858 7.1 Yellow 228 40 09.81 48 46 49.93 4.3570220 14.3 Woodys Knob 256 48 20.05 76 53 24.28 4.1263995 8.3 Three Knobs 290 21 16.02 110 25 12.22 4.0335251 6.7 Horse Gap 316 42 46.69 136 45 53.43 4.0678272 7.2	Mile		
Pig Pen Bluff 180 06 44.84 00 06 45.39 4.0767858 7.1 Yellow 228 40 09.81 48 46 49.93 4.3570220 14.3 Woodys Knob 256 48 20.05 76 53 24.26 4.1263995 8.3 Three Knobs 290 21 16.02 110 25 12.22 4.0335251 6.7 Horse Gap 316 42 46.69 136 45 53.43 4.0678272 7.2	112		
Yellow 228 40 09.81 48 46 49.93 4.3570220 14.1 Woodys Knob 256 48 20.05 76 53 24.26 4.1263995 8.3 Three Knobs 290 21 16.02 110 25 12.22 4.0335251 6.7 Horse Gap 316 42 46.69 136 45 53.43 4.0678272 7.2	415		
Woodys Knob 256 48 20.05 76 53 24.26 4.1263995 8.3 Three Knobs 290 21 16.02 110 25 12.22 4.0335251 6.7 Horse Gap 316 42 46.69 136 45 53.43 4.0678272 7.2	138		
Three Knobs 290 21 16.02 110 25 12.22 4.0335251 6.7 Horse Gap 316 42 46.69 136 45 53.43 4.0678272 7.2	จาจ		
Horse Gap 316 42 46.69 136 45 53.43 4.0678272 7.2	713		
	251		
NGVD 29 Elevations			
NGVD 29 Elevations			
Elevations			
.			

COMP.BK. TVA A County: NITCHELL

State: N. CAROLIN

SEVERMILE RICKE 15

Station: WOODS KNOB

Year: 1934 Datum: 1927 NORTH AMERICAN

Observer: E LYDDAN Description: About 3.2 miles SN of Struce Fine on cleared top, 25 feet 32 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 ENGE-1934" set in rock 17.6 feet, N-15-W of signal. RMs: #1-due W 39.7 feet #2-M-40-R 7.1 feet #3-8-05-E 13.0 Feet.

Preliminary

[Latitude		.21		ongitu		<u>xé 16.18</u>		
To Station—	Azimutl	h	Bac	k Azim	uth	•	Distan	ce
Three Knobs Mt Mitchell Celo Yellow Doe Hill Whiting Spur	23 07 48 43 76 53 198 49 229 34 272 55	36.92 17.27 24.28 00.15 56.49 38.04	203 226 256 15 49	66 37 48 50 40 59	29.10 38.72 20.05 35.67 34.32 29.29	3.8693 4.2863 4.1263 4.1017 4.1926 3.9961		Miles 4.599 12.014 8.313 7.855 9.683 6.159
Form 9-107a						NGVD 29 Tevations	\$0.00	•

M. B. BOYEDHHENT PRINTING OFFICE 16-45572-1

SEVENMILE RIDGE 15"

CCHI'-BK.TVA /Lounty: Station:

State: M. CAROLINA

Observer: R. N. IXDDAN

Year: 1934 Datum: 1927 BORTH AMERICAN

Description:

About 3 miles NW of Newdale FO on a top on the W side of a

eleared field on BW 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 Freliminary

[Latitude -			nuth	B	ack Azir	nuth	40,4	Dista	ance
	0	, –	"	0	•	•	Log. M	eters	Miles
Pig Pen Bluff	131	55	57.63	311	54	03.72	3,8154	021	4.062
Wilsons Knob	220	65	50.18	40	05	15.96	3.9 852	840	6,007
						4	NGVD 29		
·							"UNS		

Station: SPRUCE PINE CCMP.BK.TVA.#Bounty:

SEVERMILE RIPGE 15"

Observer: R. H. LYDDAN

Year: 1934 Datum:

1927 MORTH AMERICAN

Description:

2 miles NW of Estatos PO on NW end of wooded top known as the Peak; I mile H of road along Brush Creek.

Signal: 2 flags in top of 15" hiskory in fence line traversing

top of ridge.

Station: Drill hole in rock directly under flag.

Not Occupied Preliminary

[Latitude		Longitude 82 08 90.09 Distance								
To Station-	To Station—			E	Back Azi	imuth	0 _ 00 , 0 3	Distance		
	•	,	"	•	,	•	Log. Met	ters	Miles	
v Pig Pen Bluff	111	30	32.37	291	26	29.11	4.0477	814	6.936	
Wilsons Knob	185	3 6	45.25	95	37	01.64	3.8544	081	4.444	
						/	· ·			
						Ele	GVD 29 Vations			
Form 8-107a										

COMP. BE. TVA County:

SEVENMILE PLOGE 15'

MITCHELL

State: M. CAROLIN

Station: WILSONS KNOB Observer: E LYDDAM

Year: 1034 Datum: 1027 WORTH AMERICAN

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

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. 3,31.6 feet S-05-E.

Proliminary

[Latitude	95: EA	12	07	l	_ongit	ude 80	67 39.90 1		
To Station—	37 77	Azimu	ith	Back Azimuth			Distance		
	0	•	•	•	•	*	Log. Meters	Miles	
Fig Fen Bluff Roan High Bluff Roan High Knob	74 171 181	44 14 13	35.40 22.32 06.27	254 351 01	40 13 13	15.59 39.77 12.76	4.0603 378 4.0749 649 4.1143 288	7.136 7.384 8.085	
						E	NGVD 29 Verations	٠	
Form 9-107a							Talions .		

Station:

THREE KNOBS

COMP.BK. #4

County:

EVERMILE RIDGE 15 MITCHELL & YANCY State: M. CAROLI

Observer:

H. H. LYDDAN

Year: 1034 Datum: 1927 MORTH AMERICAN

Description: Oh 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 16" White Oak N-85-W, 0.52 chain 20" Birch N-38-W, 0.60 Chain.

Preliminary

(Latitude	26 40	06	.34	Long	gitude 😆 o	8 11.99 []]	
To Station-		Azim	.		Azimuth	Dista	ance
	0	,	•	0 /	*	Log. Meters	Miles
Mt. Mitchell Celo Pig Fen Bluff Woddys Knob	110 147 203	52 25 17 06	32.30 12.22 09.25 29.10	242 48 290 21 327 13 23 07	01.75 16.02 13.29 36.92	4.1158 745 4.0335 251 4.2709 828 3.8693 262	6.114 6.713 11.5973 4.599
					M Elov	SVD 29 allong	•

SEVENMILE-RIOGE 15"

Station: SPRUCE PINE #14.

County:

Yener

State: L. Corolina

Observer: Re He Igddan

Year: 1031.

Datum: 1027 H.A.D.

Description:

Form 9-107a

About 1 mi. H. of town of Colo and 1/4 mi. H. of bond in South too River.

Station: Drill hole in rock on W. edge of private drive; 50 ft. N-5 l-2 of junction with key.

Three Point Preliminary

[Latitude35 51 28.57 Longitude 10 57.66 Azimuth Distance To Station-Back Azimuth Miles Log. Meters 55 L9 20.12 81, 08 17.31 Mt. Mitchell 7.920 **215 lib 26.3**5 4-1053335 864 05 56.03 . Colo 3.7780005 NGVD 29 Elevations

SEVERIMILE RIDGE 15'

Station: SPECCE PIME #13

County: Mitchel-MeDowell State: McCarelina

Observer: R. H. Lyddan

Year: 1934 Datum: 1927 No. D.

Description:

Form 9-107a

About L mi. C. of Spruce Pine, 1/4 ml. W. of kmy. at Gellespie Cap, on M. alope of weeded ridge.

Signal: Flag in tree with trimgle blase.

Station: Drill hole in rock directly under flag.

Three Paint Preliminary

[Latitude	35 51 W.M			Longitude	82 Ø	19.63	
To Station—	- Azimuth			Back Azimuth	1	Dista	ince
	0 ,	"	0	,	"	Log. Meters	Miles
Woodys Ench Yellow	123 12 15.18 178 io 10.29		303 358	10 31.7L Lo 02. 21		3.7236856 4.1722040	3 .2 89 9 .23 7
							, -
						NGVD 29 Elevatione	

Station: SPRUCE PINE 49

SEVENMICE 15 100E 15

County: Mtschell

State: Burkh Carell

Observer: Ke Ke Lydden

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

Description:

g mi. N. of Spruce Pine on N. and of elected top. Sigml: R flags in 10" chesturt tree. Station Mark: Drill hele in rock directly under flag.

> Not ecoupled Proliminary

Longitude 82 05 53.86 [Latitude 55 55 25.22 Distance Back Azimuth To Station-Azimuth Log. Meters Miles 36 14 4E.68 216 13 25,23 130 **21, 23,2**5 3.7608695 Noodys Knob 3.752 310 21 55.52 Whitening Spur 3-9193973 5.361

Form 9-107a

U. S. COVERNMENT PRINTING OFFICE 16--6567

SEVENMILE RIDGE QUADRANGLE Bk.B5307 By L.A. Easterly, 1934

(centid. P. 2)

NORTH CAROLINA S.L.D. or 1929

(FEET)

2768.89

2642.95

2871.61

2871.180

2819.34

2800.93

2596.67

2519.90

2517.603

2508.25

JNITED	STATES	DEPARTMENT	OF	THE	INTERIOR

GEOLOGICAL SURVEY

THIRD-ORDER LEVELING

Bull. 646,pg.53				Sea	a Level	Datum	of	1929
By W.S.D. Moore, 1899 4/12/65 mac Recopied							,	EET)
FROM MARION NORTH ALONG	ROAD	то	SPRUCEPINE	(By	W.S.D.	Moore,	189	99)

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)

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 HICHWAYS 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

U.E., Ingalls, 0.9 mi N. of, along paved hwy., 3.1 mi 3. 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

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"

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 Marie Marie

9

2656.320

2820.81

2781.22

2775.609

2765.46

2468.043

2463.666

U.E., Ingalls, 2.1 mi S. of, along paved hwy.; on NF. end of bridge over N. Toe River, on N. wingwall; chiseled

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

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

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"

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

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

U.E., Spruce Pine, 1.2 mi E. of, along dwy, on w. end of bridge over Beaver Creek, on N. wingwall, chiseled square painted white

Reference mark, on concrete pump stand of Shell Oil Company filling station on Lower Street (in Sprine Pine); chiseled square with cross in center.

Spruce Pine, in station yard, 81 ft \$1. 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 ISCARS)

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

NGVD 29 Elevations

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 CC. & 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, O.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 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, O.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 out on RR., in concrete post; standard tablet stamped "E 5 1934 ELEV 2399" (Tied by USC&QS) 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"

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.)

SEVENMILE RIDGE QUADRANGLE (Cont.d. P. 4) NORTH CAROLINA 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 sipe 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 2 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, O.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 POECANE 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 2450.16 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 lt 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

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Bk.B5307	H CAROLINA D. of 1929	D/C(0.5)	TH CAROLINA
, and an	(FEET)	By L.A. Easterly, 1934 S.I	.D. of 1929
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., 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	
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	2 516.23	U.E., Penland, O.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	2566.87 2559.32
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	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
Reference mark, 28 ft NW. of tablet, on rock outcrop; chiseled square	2449.63	FROM POINT NEÁR HUNTERS CHAPEL ALONG HIGHWAY SOUTH TO MICA THENCE NORTHWEST TO ESTATOE THENCE EAST TO SPRUCE PINE	
FROM TOECANE QUADRANGLE SOUTHEAST AND SOUTH ALONG HIGHWAY TO PENLAND (leveled twice)		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
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	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 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, 96 ft SE. of tablet, in root on S. side of 9-in. oak tree; copper nail and washer	2626.06
Reference mark No. 2, 15 ft SE. of tablet, on rock outcrop; chiseled square	3346.41	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	2020.00
U.E., Bear Creek Baptist Church, 2.8 mi N. of, on E. side of rd., on rock outcrop; chiseled square	32 27.82	chiseled square	2692.96
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 outrop; standard tablet stamped "E 13 1934 2622"	,	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
	2623.759	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, chieled some	
Reference mark, 126 ft SW. of tablet, in large boulder that is used as abutment to bridge; chiseled square	2621.04	Creek; chiseled square Little Switzerland, O.l 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. stranged for the concrete of	2603.17
\$ LOVE	2/22	ft NW. of rd. crossing; in concreté post; standard tablet stamped "E 15 1934 3479" (Reported destroyed, 1951)	3479.017
NGVI			
Elevat	ions		
193 SEVENMILE RIDGE QUADRANGLE (Cont'd. P. 7) NORTH	H CAROLINA	193 SEVENMILE RIDGE QUADRANGLE (Cont. D. 8) NOR. Bk. B5307-8	H CAROLINA
By L.A. Easterly, 1934 S.L.	D. of 1929	Dry T A Manhautin 100k	D. of 1929
	(FEET)	,	(FEET)
Reference mark, 41 ft NW. of tablet, in root on NE. side of 15-in. oak tree; copper nail and washer	3481.38	FROM FOINT 1.0 MILE NORTHWEST OF LITTLE SWITZERIAND SOUTHW ALONG HIGHWAYS TO POINT 2.6 MILES SOUTH OF CELO POST OFFICE	ST
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. sic of rd., on rock outcrop; chiseled square	ie 3573.31	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 stambed	
Estatoe, 2.3 mi SE. of, along N. side of rd., 50 ft E. of		in concrete post; standard tablet stamped "E 16 1934 317"	3171.666

193 SEVENMILE RIDGE QUADRANGLE (Cont.d. P. 7) NORTH	H CAROLINA	193 SEVENMILE RIDGE QUADRANGLE (Cont.d. P. 8) NORTH	I CAROLINA
Bk.B5307-8 By L.A. Easterly, 1934 S.L.I	of 1929	BK. B5307-8	of 1929
	(FEET)	,	(FEET)
Reference mark, 41 ft NW. of tablet, in root on NE. side of 15-in. oak tree; copper nail and washer	3481.38	FROM FOINT 1.0 MILE NORTHWEST OF LITTLE SWITZERLAND SOUTHWES ALONG HIGHWAYS TO POINT 2.6 MILES SOUTH OF CELO POST OFFICE	, ,
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. sic of rd., on rock outcrop; chiseled square		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 ognorete post; standard tablet stamped	
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	"E 18 1934 317" Reference mark, 140 ft SE. of tablet, in root on N. side of	3171.666
Reference mark, 17 ft E, of tablet, in root on Sw. side of 21-in. maple tree; copper nail and washer	3609.46	12-in. spruce tree; copper nail and washer U.E., Crabtree Falls, 0.4 mi W. of, along N. side of Crab-	3174.75
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	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
U.E., Estatoe Post Office, 255 ft E. of, on B. end of concrete bridge over Brushy Creek, on S. wingwall; chiseled square	2626.80	Reference mark, 16 ft NW. of tablet; on rock ledge; chiseled square	2831.46
Reference mark, 96 ft NE. of tablet, on N. concrete headwall to drain under hwy.; chiseled square	2739.97	Murphee Falls, 0.6 mi S. of, along E. side of Carolina Mineral Company RR., of W. side of S. fork of Orabtree Creek, in rock ledge; standard tablet stamped "E 19 1934 2826"	2826.747
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., Sevenmile Ridge School, O.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;	2020./4/
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	chiseled circle FROM POINT 2.6 MILES SOUTH OF CELO POST OFFICE SOUTHWEST	2946.43
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.;		ALONG ROADS INTO OLD FORT QUADRANGLE (DOUBLE RUN SPUR LINE) (By C.A. Cluntet, 1900, L.A. Easterly and R.W. Goebel, 1934)	
chiseled square 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	2049.39	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
USCAGS)	2517.603	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

102		
193 SEVENTIE RIDGE QUADRANGLE (Cont'd. P. 9) BK.B5308	NORTH	CAROLINA
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 r W. that crosses river, in concrete wall to drain u rd.; chiseled square	d. nder	2764.52
Gelo, 6.0 mi S. of, 100 ft S. of small cabin, 50 ft stream flowing NE., W. of rd. at fork, in rock led standard tablet stamped "2848 ASH"	W. of ge;	2848.196
FROM ESTATOE WEST ALONG HIGHWAYS TO POINT 8.0 MILES OF NEWDALE (By R.W. Goebel, 1934; Book B5322)	West	
U.E., Estatoe Post Office, 255 ft E. of, on E. end o crete bridge over Brushy Creek, on S. wingwall; ch square		2626.802
U.E., Estatoe, 1.2 mi NW. of, 0.1 mi W. of rd. inter 38 ft SW. of centerline of U.S. Highway 19 E., on chiseled square	section, boulder,	2718.34
Spruce Pine, 5.3 mi NW. of, 135 ft N. of NW. headwal concrete bridge on U.S. Highway 19 E., on W. bank Crabtree Creek, at Yancey and Mitchell County line rock ledge; standard tablet stamped "GI 1 1934 255	, in	2553.434
Reference mark, 175 ft S. 30° E. of tablet, on N. en E. abutment of Crabtree RR. bridge; chiseled squar	d of e	2551.03
U.E., Estatoe, 3.0 mi NW. of, 600 ft E. of pond, 18 SW. of centerline of U.S. Highway 19 E., on boulde chiseled square	ft r;	2724.20
U.E., Newdale Post Office, 125 ft E. of, at interse of U.S. Highway 19 E. and Blue Rock Road, on S. h wall of concrete culvert; chiseled square	ction ead-	2553.40
Bk. B5333 By R.P. Willingham, 1934		
Busick, about 1.5 ml E. of, along State Highway 80; Creek Gap, 90 ft E. of Yancey County line; 50 ft E intersection of State Highway 104 and rd. N.; 12 f of Nw. corner of abandoned cabin; in rock ledge; s tablet stamped "17 RPW 1934" (Reported destroyed,	. of t N. tandard	3342.78
Reference mark, 60 ft W. of tablet, 12 ft N. of cent of hwy on boulder: chiseled square	erline	3342.28