UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

36-083-42 MIDDLESBORO QUADRANGLE 4 KY .- 198 TENN .- 32 VA. N3630-W8330/15 DIAGRAM NJ 17-10 JOHNSON CITY

Bell and Haflan Counties, Ky.; Claiborne County, Tenn.; Lee County, Va.

Edition of 6/14/76

FONDE

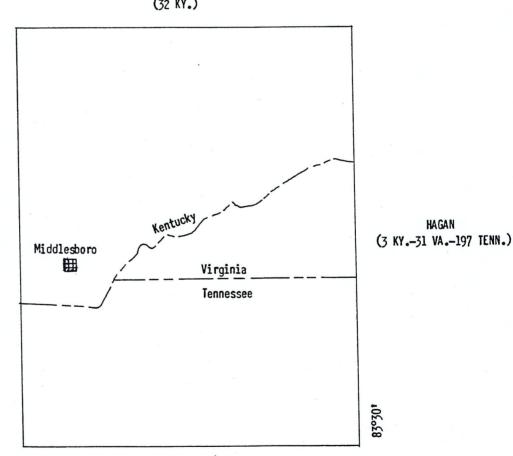
(5 KY.-199 TENN.)

PR: JH/fmc

Plane coordinates are based on Lambert projection, Kentucky and Virginia, South Zones and Tennessee

Only the permanent marks are listed for control classified obsolete and are not shown on sketch





RUTLEDGE (165 TENN.) 36°301

DISCLAIMER

We no longer attest to the validity of the positions listed for horizontal control established by transit traverse procedures. This control is now considered <u>OPSOLETE</u> and is included in this list for the purpose of identification only.

INDEX OF PERMANENT MARKS

MARK (NGS)

Q 209 1951

PAGE NO.

3

STATION DESCRIPTION PLANE COORDINATES, FEET

LATITUDE

LONGITUDE

The following positions are considered OBSOLETE. To be used only to locate permanent marks in the field.

C. W. Haas, 1952; Book AS 88

Pineville, 1.5 mi S. of courthouse, along U. S. Highway 25E, thence 4.1 mi SW. along State Highway 190 to entrance to Kentucky Ridge State Forest; at Louisville and Nashville Railroad crossing; 156 ft S. of S. rail; 29 ft SW. of centerline of hwy.; 2 ft N. of fence; in concrete post; MGS standard disk stamped

Ky. S.) X = 2,588,891 Y = 149,825

36 43 39.54

83 44 25.86

198 Jenn - 4kg - 32/A

Station: County: RELL-IRE State
Observer: R. B. Steele Year: 1934 Datum: Prelim. 1927 N.A.D.

Middlesboro 15' Qd.

Description: Comp. Bk. TVA #27

Located 4 mi. by rd. and trail N. of Gibson Station, Va., post office on top of the Cumberland Mountain, 0.75 mi. ME. from Butchers Gap. Station is on first high top NE. of the Gap. To reach each station from Gibson Station Post Office, follow rd. N. about 2 mi. to end of rd., thence take trail to top of mountain, ingap; thence follow ME. along divide to station about 0.75 mi.

Station Marks: Dill hole in rock centered under signal.

Signal: Pole with flag mounted in top of 20" oak centered over station mark.

	0 /	"		0	, ,	
[Latitude	36 39 08	3.34	Longitu	ide 83	33 27.02	
To Station—	Azimuth		Back Azin	nuth	Distance	
	0 /	"	0 /	"	Log. Meters	Miles
White Rock	261 31	11.63	81 34 59.	40	3.9813067	5.95 2
Redman	340 24	49.72	160 26 27.	45	4.6849793	7.5 57
	i					
			**		i	
	2					

MIDDLESBORD 15

Station: County: BELL-LRE CHADWELL (Not occupied) State: KY.-VA. Observer: R. B. Steele Year:1934 Datum: Prelim. 1927 N.A.D. Description: Comp. Bk. #27

Located about 2.5 mi. N. and 1 mi. of Caylor a station on the Louisville & Mashville RR. on a high point of Cumberland Mountain, 1 mi. W. of where trail goes thru Chadwell Gap. Station is on cleared top.

Station Mark: Drill hole in rock set in place and centered under signal.

Signal: Pole tripod with brush and flag in top, centered over station mark.

[Latitude	26 20	EO #2		Lon	gitude ga	31 20.27]	
To Station—	To Station— Azimuth		Back Azimuth			Distance		
	٥	, ,,	0	,	"	Log. Meters	Miles	
Forge	30	19 14.96	210	16	33.27	4.1255824	8.297	
White Rock	271	29 44.46	91	3 2	16.57	3.8012854	3.932	
							i	
•								
			; !					
Form 9-107#								

198 Lever - 4 Ky - 32 VA

Middlesboro 15' Qd.

Station: CLINE

Cou

County: CLAIBORNE

State: TRIMESSEE

Observer: T. T. Ranney Year: 1

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

Description: Comp. Bk. TVA #25

On the N. end of Cline Knob, a well-known hill, 1/2 mi. W. ef Kings Bend of the Powell River, on property owned by Willie Bruce, who lives about 1/2 mi. S. of the station.

(NOTE): - A cultivated field is 620 ft. S. of station and the signal tree stands on the line of an old clearing covered with brush and young pine growth on the E. side, with heavy hardwood timber on

the W.

The station is best reached from Tazewell, Tenn., by following U.S. 25 N., about 4 mi. to Cline's garage, thence W. on county road 4.3 mi. to the Bruce home.

Station Mark: A standard bronse tablet (triangulation) cemented in a limestone rock and set flush with the ground, stamped "CLIME R 1934".

Signal: Flag and pine brush in top of 12" poplar tree.

Reference Mark No. 1: Triangular blase, with nail in center of, on signal tree, 28.6 ft. distance from station mark. Magnetic bearing from station mark, 645°. Angle between Forge and ref. 25°17'30".

Reference Mark No. 2: Triangular blaze, with nail in center of, on signal tree, 1.3 ft. distant from station mark. Magnetic bearing from station mark, 345°. Angle between reference and Forge is 64°08'20".

To Station—	36 30 15.2	Back Azimuth			39 41.11 Dist	ance	
	0 ,	"	0	,	"	Log. Meters	Miles
Pinnacle	177 59	37.19	3 57	5 9	27.74	4.0515066	6.966
Forge	221 23	55.6 9	41	26	12.46	3.9364827	5.368
							•
,							1
						5	

198 Jenn - 4 Ky . 32 VA

Station: ESTEP (Not occupied)

County:

Middlesboro 15' Qd.

Observer: R. B. Steele

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

Description: Comp. Bk. TVA #26

Located about 2 mi. S. of Caylor, a station on the Louisville & Mashville RR. and at the head of Wheeler Hollow, on a knob that is timbered on the W. and clear on the E., station is 200 ft. M. of timber line E. and 100 ft. S. of angle in timber line H.-S., 3 ft. W. of property line between M. Estep and W. Fry. To reach station from Gibson Post Office, drive E. on U.S. 58 about 2.5 mi. to a Mr. Wheeler's residence, then turn right (8) on private rd. and drive up Wheeler Hollow to residence of W. Fry, from this point walk 1/2 mi. to station.

Station Mark: Drill hole in rock set in place.

Signal: Pole with white flag in top of a 15" chestnut center over station mark.

Reference: Triangular blaze, mail in center, on E. side signal tree. 9.8 ft. N. 16° E. from station mark.

[Latitude	36 36 13		Longitude 83	30 10.70	
To Station—	Az	imuth	Back Azimuth		ance Miles
,	,	,,		Log. Meters	Miles
Redman	7 32	48.32	187 32 29.01	3.7879504	3.813
Forge	61 37	49.99	241 34 26.96	3.9834970	5.9 82
					:
	: :				

198 Jenn - 4 Kg -32 UA

Station: HAYSTACK (Not occupied) County: CLAIBORNE State: TENNESSEE

Observer: R. B. Steele Year 1934 Datum: Prelim. 1927 N.A.D.

Description: Comp. Bk. TVA #26

Located about 2 mi. S. and a little E. of Shawanee, Tenn., post office, 1/2 mi. NE. of Gobblers Knob, and about 2000 ft. NW. of Hamlet School, 1000 ft. of the residence of R. J. Thomas, and on a cleared hill. A young erchard is on the N. slope of the hill, and a few scattered pine trees on S. slope. The signal tree is on a fence line running SE., and stands on the SW. side of a haystack, 4 more haystacks are close and NW. of the signal tree. To reach station from Shawanee take road S. for a distance of 2 miles to Hamlet School, thence E. O.4 mi. to residence of R. J. Thomas.

Station Mark: Center of 8" walnut tree.

Reference Mark: Drill hole in rock set in place 25.28 feet distant from station mark S. 35° E.

Signal: Pole with white flag in 8" walnut *** center over sta. mk.

[Latitude	1		muth	Longitude 83 3		1	ance		
	0	,	//	0	,		"	Log. Meters	Miles
Cline	29	45	45.93	209	44	23	.30	3.8425485	4.324
Pinnacle	143	3 5	09.61	323	33	37	43	3.8113015	4.024
									3
				4					
									,

198 Jenn - 4 Ky - 32 VA

Middlesboro 15' Qd.

Station: KELLY (Not occupied)

County: CLAIBORNE

State: TENNESSEE

Observer: R.B. Steele

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

Description: Comp. Bk. TVA #26

Located on a high knob 8 miles by rd. from Gibson Station, Va. post office, and about 4.5 mi. by rd. W. of W. R. Meville Store and crossreads, on property owned by Alden Kelly. Station is on highest point of a knob about 0.3 mi. W. of residence of Alden Kelly, and about 600 ft. M. of rd., 54 ft. at right angle from and SE. of a rail fence. To reach station from Gibson Station post office, drive S. along county rd. 4.5 mi. to W. P. Meville Store, then W. 2.8 mi. to a T-rd., then 0.75 mi. N. to Alden Kelly's residence.

Station Mark: 1" drill hole in rock set in place, centered under signal tree.

Signal: 6" black locust tree which has all limbs trimmed except the top ones.

A cedar top was wired in top of locust tree with a white flag underneath. Tree has a 5" triangle hacked on S. side.

Signal and instrument on center.

[Latitude	36 35	10.84	Longitude 83	34 02.85]	
To Station—	Azimuth		Back Azimuth	Distance	
	0	, "	0 / //	Log. Meters	Miles
Pinnacle	103	41 44.30	283 38 13.19	3.9570564	5.629
White Rock	229	52 33. 82	49 56 42.80	4.1320545	8.422
				9	
			, , , , , , , , , , , , , , , , , , ,		
				*	

198 Jenn - 4ky - 32 UA

Middlesboro 15' Qd.

Station: RICE (Not occupied)

County: CLATBORNE

State:

PRESSERE

Observer: R. B. Steele

ear: Datum:

Prelim. 1927 N.A.D.

Description: Comp. Bk. TVA #26

Located on a partly timbered top locally known as Fin Rice Enob, on Allen Whitaker property, whose residence is about 1/2 mi. HE. of sta., 500 ft. W. of a fence line N., 100 ft. E. of SW. corner of a clearing and 8 ft. S. of an K.-W. property Fine. The station is best reached from Taxewell, Tenn., by following US #25H about 5 mi. to the Bachus Store, then E. along Pine Hill Road 2.2 mi. S. to a field rd. through the property of Tillman Campbell, which leads to station; Bachus School is about 1.7 mi. W. of sta.

Station Mark: Drill hole in rock set in place and centered under signal.

To Station—	e 36 30 43.86	Longitude 83 Back Azimuth	Distance
	0 / "	0 / "	Log. Meters Miles
Cline	83 22 58.23	263 19 57.05	3.8824085 4.740
Forge	161 37 59.41	341 37 14.92	3.7706385 3.664
		* 4 * * * * * * * * * * * * * * * * * *	
		2	
		v 12	

THIRD-ORDER LEVELING
NATIONAL GEODETIC VERTICAL DATUM OF 1929

36-083-42
MIDDLESBORO QUADRANGLE
4 KY.-198 TENN.-32 VA.
N3630-W8330/15
DIAGRAM NJ 17-10
JOHNSON CITY

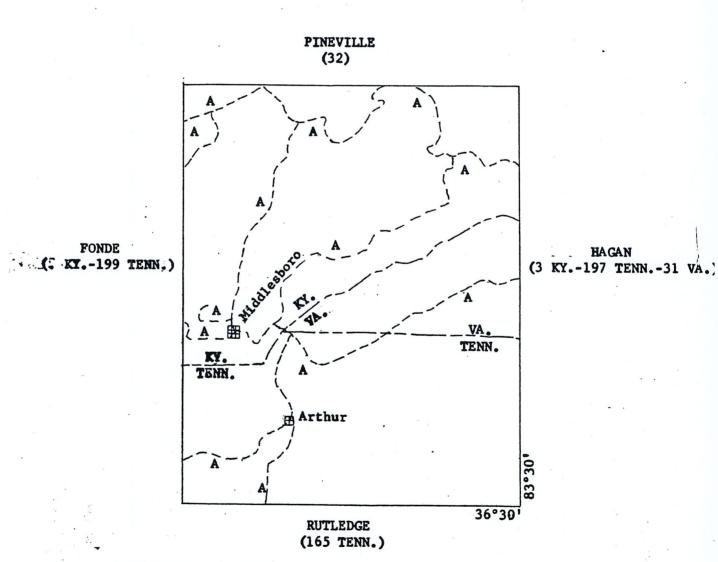
UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Bell and Harlan Counties, Ky.; Clairborne County, Tenn.; Lee County, Va.

Final adjustment of 1976

Edition of 9/13/76

PR: FJK/kp



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 360834

INDEX OF PERMANENT MARKS

MARK (USGS)	PAGE NO.	MARK (USGS)	PAGE NO.
1227 1304 1029 LEXINGTON 1045 LEXINGTON 1137 LEXINGTON 1362.412 LEX M 16 1923 TENN 1248 1336 B 52 1912 1257 B 53 1912 1249 B 67 1912	3 3 3 3 4 3 3 3	R 1 1926 R 2 1926 R 3 1926 1203.173 R 4 1926 R 6 1926 R 7 1926 R 13 1926 R 14 1926 (1013.945) R 14 1926 (1142.517)	3 4 4 4 4 4 5

headwall: standard tablet stamped "R 1 1926" (Tied by NGS, 1957)

Harmachinem wan under trees . Total Had a.

1118.384

ISOLATED BENCH MARKS (Cont'd.)

Feet

Colmar, 1.5 mi SW. of; 70 ft NE. of E. end of Clear Fork bridge; in W. end of culvert; standard tablet stamped "R 2 1926"

1068.854

Middlesboro, 1.5 mi SE. and E. along U. S. Highway 25 E from intersection of Cumberland Avenue, thence about 3.75 mi N. and NE. along graveled rd., thence 2.65 mi E. and NE. along graveled and dirt rd.; 0.7 mi NE. of Hutch Baptist Church and stone school building; on outside of curve with tangents extending NE. and NW. and the NE. end of curve which has been cut off by a new graveled rd.; 200 ft S. of center of new rd.; about 200 ft SW. of junction of old and new rds.; 40 ft SE. of power pole with four brace cables at directional change in line and line crosses new rd.; 33.5 ft SW. of SW. edge of stone steps; 10 ft SE. of, and about 2 ft higher than center of old rd.; in top of outcrop of rock which extends under rock wall around yard of burned ruins of frame house; standard tablet stamped "R 3 1926 1203.173" (Note: The 3 is stamped backward) (Tied by NGS, 1952) (Not found, 1974)

1203.173

Middlesboro, 1.5 mi SE. and E. along U. S. Highway 25 E from intersection of Cumberland Avenue, thence about 3.75 mi N. and NE. along graveled rd., thence 4.7 mi E. and NE. along graveled and dirt rd.; at 30-ft wooden bridge pver Shillaly Creek; about 180 ft W. of dim crossroad; 24 ft S. of centerline of rd.; 23 ft SW. of SW. corner of bridge and about level with rd.; in top of rounded outcrop of rock which is in NE. corner of cultivated field; standard tablet stamped "1362.412 LEX" (Tied by NGS, 1952)

1362.412

Ferndale, 500 ft NW. of station; in NE. corner of concrete hwy. bridge; standard tablet stamped "R 13 1926" (Reported destroyed, 1952)

1173.020

Wasioto, 1.0 mi SW. of; 400 ft N. of rd. fork W. to Clear Creek Springs; in E. end of concrete culvert; standard tablet stamped "R 14 1926" (As reset by Ky. Hwy. Dept. 1/26/31)

1013.945

East Pineville, 0.3 mi E. of post office, S. side of hwy.; in SW. corner of concrete culvert; standard tablet stamped "R 4 1926" (Not found, 1952)

1021.177

Miracle, 3.0 mi S. of; 5.8 mi NW. of Cubage Post Office; 40 ft S. of rd. fork at ford; 2 ft above old stream bed; in 10-ft boulder; standard tablet stamped "R 6 1926" (Not found, 1954)

1069.754

Cubage Post Office, 2.7 mi NW. of; at mouth of Cubage Branch; 100 ft N. of school; in boulder; standard tablet stamped "R 7 1926" (Not found, 1954)

1115.174

36-083-42

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ISOLATED BENCH MARKS (Cont'd.)

Feet

Carlsbad, 60 ft W. of rd. crossing; 15 ft N. of track; in top of large boulder; standard tablet stamped "R 14 1926"

1142.517