

## SURVEY CONTROL DATA IN QUADRANGLE 133

**A 2** (TVA, 1947; Polk County, Tennessee)

Located about 400 feet northeast of Apalachia powerhouse and about 15 feet east of railroad. A standard tablet stamped "A 2 1947" and set in concrete under overhanging rock, "870.285" painted on rock.

ELEVATION: 870.28 feet (T-3)

**AKW 270** (TVA, 1941; Cherokee County, North Carolina)

Located 1.5 miles east of Farmer, 1.2 miles south of Hiwassee River, 150 feet west of woods road, 200 feet south of center line gap, 300 feet north of Y-road intersection in gap, on top of knoll on center line ridge, 5.72 feet N 40° E of 3-inch hickory stump, 5.55 feet N 70° E of 12-inch black oak, and 6.04 feet S 50° E of 3-inch pine. Station is an unstamped angle iron.

GRID POSITION (North Carolina): X = 418,879.2; Y = 551,353.2 (T-4)

**A LRH 1** (TVA, 1947; Cherokee County, North Carolina)

Located at Apalachia Dam, on top of dam, set on dam axis, on south end, and about 40 feet north of rock abutment. A standard tablet stamped "2.0 D.S. 14+80 A LRH 1" and set in concrete.

GEODETIC POSITION: Lat. = 35°10'00.37"; Long. = 84°17'45.13" (T-3)

GRID POSITION (Tennessee): X = 2,509,345.5; Y = 286,467.5 (T-3)

Grid Azimuth to A LRH 2 (distance 1113.0 feet): 197°59'50".

GRID POSITION (North Carolina): X = 418,019.0; Y = 557,816.0 (T-3)

ELEVATION: 1287.90 feet (T-3)

**A LRH 2** (TVA, 1947; Cherokee County, North Carolina)

Located at Apalachia Dam, on top of dam, set on dam axis, on north end, and about 40 feet south of riprap. A standard TVA tablet stamped "2.0 D.S. 3+67 A LRH 2" and set in concrete.

GEODETIC POSITION: Lat. = 35°10'10.777"; Long. = 84°17'40.76" (T-3)

GRID POSITION (Tennessee): X = 2,509,690.3; Y = 287,526.0 (T-3)

Grid Azimuth to A LRH 1 (distance 1113.0 feet): 17°59'50".

GRID POSITION (North Carolina): X = 418,437.4; Y = 558,847.3 (T-3)

ELEVATION: 1287.93 feet (T-3)

**A LRH 4** (TVA, 1947; Cherokee County, North Carolina)

Located at Apalachia Dam, in curb at west end of parking lot, 75 feet downstream from dam, and 50 feet west of substation. A standard TVA property marker with the words "Property Marker" ground off and stamped "US TVA A LRH 4" set in concrete.

Reference Mark 1: 46.0 feet Southwest to painted cross on penstock pier.

Reference Mark 2: 57.0 feet Southwest to painted cross on penstock pier.

Reference Mark 3: 35.5 feet Northwest to washer on power pole No. 81.

GEODETIC POSITION: Lat. = 35°10'02.13"; Long. = 84°17'46.87" (T-3)

GRID POSITION (Tennessee): X = 2,509,198.0; Y = 286,643.2 (T-3)

GRID POSITION (North Carolina): X = 417,884.3; Y = 558,001.4 (T-3)

ELEVATION: 1204.60 feet (T-3)

**A LRH 5** (TVA, 1947; Polk County, Tennessee)

Located about 135 feet south of Apalachia powerhouse, set in center line of concrete sidewalk, approximately 5 feet north of entrance gate to Apalachia powerhouse, about 14 feet from center line of access road, about 15 feet from east end of suspension footbridge, and about 42 feet west of flag pole, 8.8 feet northeast of north end of beam under bridge, 5.2 feet northwest of west gate post, and 12.5 feet northwest of center of gate latch in center line of road. A standard TVA property marker with the words "Property Marker" ground off and stamped "A LRH 5".

GRID POSITION (Tennessee): X = 2,466,636.7; Y = 291,439.4 (T-3)

Grid Azimuth to A LRH 6 (distance 375.1 feet): 118°44'10".

Grid Azimuth to M 67 23 (distance 402.4 feet): 17°38'30".

ELEVATION: 873.24 feet (T-3)

\*NOTE: There is evidence point may have settled 0.2 foot.

**A LRH 6** (TVA, 1947; Polk County, Tennessee)

Located approximately 0.1 mile southwest of Apalachia powerhouse, at dead end of gravel road right bank of Hiwassee River from Reliance, Tennessee, on property of US-TVA, set on right bank of Hiwassee River under west end of suspension footbridge, approximately 50 feet west of water's edge, set between north and south footings on east edge of tower, 6.8 feet northwest from northeast edge of concrete form under south side of bridge, 14.8 feet east of center of "I" beam in center of tower, and 6.2 feet southwest of southeast corner of concrete form under north side of bridge. A standard TVA property marker with the words "Property Marker" ground off and stamped "A LRH 6". Steel post with control marker sign set 1 foot northwest of monument.

GRID POSITION (Tennessee): X = 2,466,307.8; Y = 291,619.8 (T-3)

Grid Azimuth to A LRH 5 (distance 375.1 feet): 298°44'10".

ELEVATION: 863.75 feet (T-3)

**A LRH 7** (TVA, 1947; Polk County, Tennessee)

Located approximately 100 feet southeast of Apalachia powerhouse, on the property of US-TVA, set in center line of penstock on top of the concrete junction of penstock and tunnel, 12.7 feet northeast of corner rail post at southwest corner of concrete junction, and 12.3 feet southeast of corner rail post at northwest corner of concrete junction. A standard TVA property marker with the words "Property Marker" ground off and stamped "A LRH 7".

GRID POSITION (Tennessee): X = 2,467,022.7; Y = 291,580.1 (T-3)

Grid Azimuth to A LRH 5 (distance 410.8 feet): 69°57'50".

ELEVATION: 1072.46 feet (T-3)

**APA** (TVA, 1941; Cherokee County, North Carolina)

Located about 1.3 miles northeast of Farmer. To reach from Farmer post office, go northeast along farm road which is on north side of Louisville and Nashville Railroad, a distance of 1.2 miles to home of A. Chadwick, turn left up hollow and go 0.2 mile to angle point in TVA transmission line, 2.10 feet N 10° W of 12-inch pine, 5.40 feet S 30° W of 8-inch pine stump, and 20.50 feet S 40° E of 8-inch pine. Station is a standard TVA tablet stamped "APA 1941" and set in concrete monument on highest point of knoll.

GEODETIC POSITION: Lat. = 35°09'48.748"; Long. = 84°17'45.499" (T-3)

To Station	Azimuth	Back Azimuth	Log. Meters	Miles
Little Frog F.T.	55°44'40.9"	235°40'23.7"	4.136635	8.5
Bean F.T.	97°35'48.4"	277°26'44.4"	4.382014	15.0
Waucheesi F.T.	209°30'56.8"	29°33'38.1"	4.156807	8.9
Beaverdam F.T.	238°20'09.2"	58°26'03.5"	4.261453	11.3

GRID POSITION (North Carolina): X = 417,925.7; Y = 556,644.7 (T-3)

GRID POSITION (Tennessee): X = 2,509,335.5; Y = 285,292.2 (T-3)

**ASR 1** (TVA, 1941; Cherokee County, North Carolina)

Located approximately 1500 feet upstream from Apalachia dam site on left bank, approximately 400 feet west of large ravine, 200 feet downstream from where contour turns up hollow, 4.8 feet north of base of triple 6-inch Spanish oak, 8.8 feet southeast of 3-inch locust, and 7 feet east of 3-inch dogwood. A standard TVA tablet stamped "ASR 1 1941" and set in concrete monument. Steel post with control marker sign set 1.3 feet southwest of monument.

GRID POSITION (North Carolina): X = 419,997.9; Y = 557,103.0 (T-4)

Grid Azimuth to ASR 2 (distance 1024.6 feet): 203°21'10".

ELEVATION: 1285.1 feet (T-4)

**ASR 2** (TVA, 1941; Cherokee County, North Carolina)

Located on right bank of Hiwassee River, approximately 1900 feet east of Apalachia Dam, 2500 feet east of North Carolina State line, 400 feet downstream from center line of hollow, opposite mouth of Laurel Branch, about 750 feet downstream on slope, 14.0 feet south of 14-inch pine, and 14.0 feet southwest of 8-inch pine. A standard TVA tablet stamped "ASR 2 1941" and set on sloping outcrop, about 5 feet above pool contour. Steel post with control marker sign set 1.5 feet north-west of tablet due to outcrop.

GRID POSITION (North Carolina): X = 420,404.1; Y = 558,043.5 (T-4)

Grid Azimuth to ASR 1 (distance 1024.6 feet): 23°21'10".

ELEVATION: 1286.4 feet (T-4)

**ASR 3** (TVA, 1941; Cherokee County, North Carolina)

Located approximately 1000 feet downstream from large ravine, left bank on point of ridge, 200 feet downstream from where contour turns up hollow, about 175 feet downstream from navigation sign No. 1, about 50 feet upstream from large boulder extending into lake, 6.9 feet from 30-inch oak (slope distance), 16.8 feet from 6-inch hickory (slope distance), and 13.9 feet from 10-inch maple (slope distance). A standard TVA tablet stamped "ASR 3 1941" and set in concrete monument. Steel post with control marker sign set 1 foot south of monument.

GRID POSITION (North Carolina): X = 423,307.2; Y = 556,571.7 (T-4)

Grid Azimuth to ASR 4 (distance 1188.0 feet): 183°20'50".

ELEVATION: 1286.0 feet (T-4)

**ASR 4** (TVA, 1941; Cherokee County, North Carolina)

Located on right bank, approximately 1200 feet upstream from large ravine, midway between two small ravines on point, about 300 feet upstream from point where contour turns up main hollow. Monument located on very gently sloping ridge in thicket, 5 feet south of remains of old rail fence, 19.5 feet southeast of 10-inch pine, 20.0 feet southwest of 10-inch hickory, and 4.4 feet northeast of 3-inch pine. A standard TVA tablet stamped "ASR 4 1941" and set in concrete monument, flush with ground. Steel post with control marker sign set 1 foot north of monument.

GRID POSITION (North Carolina): X = 423,376.6; Y = 557,758.9 (T-4)

Grid Azimuth to ASR 3 (distance 1188.0 feet): 3°20'50".

ELEVATION: 1284.7 feet (T-4)

**ASR 5** (TVA, 1941; Cherokee County, North Carolina)

Located on left bank, approximately 1000 feet upstream from large deep draw on point of ridge midway between two small ravines, on last point on main lake before starting into hollow, about 25 feet east of contour, 5.5 feet north of 14-inch dead oak, 31.5 feet southwest of 14-inch Spanish oak, and 21.1 feet northwest of 5-inch pine. A standard TVA tablet stamped "ASR 5 1941" and set in concrete monument, flush with the ground. Steel post with control marker sign set 1 foot southeast of monument.

GRID POSITION (North Carolina): X = 427,805.0; Y = 558,505.5 (T-4)

Grid Azimuth to ASR 6 (distance 784.3 feet): 144°44'10".

ELEVATION: 1285.4 feet (T-4)

**ASR 6** (TVA, 1941; Cherokee County, North Carolina)

Located on right bank, approximately 400 feet upstream from large boulder, approximately 500 feet upstream from large ravine which is situated on left bank, in thicket about 20 feet northwest of contour, 14.9 feet from 8-inch pine, 16.8 feet from 3-inch hickory, and 28.3 feet from 10-inch hickory. A standard TVA tablet stamped "ASR 6 1941" and set in concrete monument, flush with ground. Steel post with control marker sign set 1 foot northwest of monument.

GRID POSITION (North Carolina): X = 427,352.2; Y = 559,145.9 (T-4)

Grid Azimuth to ASR 5 (distance 784.3 feet): 324°44'10".

ELEVATION: 1284.5 feet (T-4)

**ASR 7** (TVA, 1941; Cherokee County, North Carolina)

Located on left bank, approximately 1500 feet upstream from large ravine, approximately 1000 feet downstream from large bend in left bank of river, on point midway between two small ravines, on ridge having lone 36-inch forked white pine, downstream about 50 feet from this pine, 9 feet northwest of 6-inch double white oak, 21.5 feet northwest of 14-inch maple, and 12.4 feet east of 8-inch pine. A standard TVA tablet stamped "ASR 7 1941" and set in concrete monument, flush with the ground. Steel post with control marker sign set 1 foot southeast of monument.

GRID POSITION (North Carolina): X = 431,388.6; Y = 560,165.1 (T-4)

Grid Azimuth to ASR 8 (distance 1037.8 feet): 153°46'50".

ELEVATION: 1284.7 feet (T-4)

**ASR 8** (TVA, 1941; Cherokee County, North Carolina)

Located on right bank, west of west edge of McNabb Island, on Apalachia dam site road, 2-1/2 miles east of dam site, 625 feet east of road in hollow, 2.1 miles southwest of Violet, 20.3 feet southwest of 20-inch red oak, 9.2 feet east of 6-inch hickory, and 3.9 feet southeast of 4-inch hickory. A standard TVA tablet stamped "ASR 8 1941" and set in flat granite rock outcrop. Steel post with control marker sign set 3.0 feet northwest of monument, due to rock.

GRID POSITION (North Carolina): X = 430,930.1; Y = 561,096.1 (T-4)

Grid Azimuth to ASR 7 (distance 1037.8 feet): 333°46'50".

ELEVATION: 1286.0 feet (T-4)

**BM 1133.1** (USGS, 1934; Polk County, Tennessee)

Located 0.7 mile east of Ocoee No. 2 Dam, in top of south wing wall of east concrete abutment of wooden bridge over creek. A square cut, painted on wing wall "BM 1133.1".

ELEVATION: 1132.603 feet or 345.218 meters (T-2)

**BM 1134.0** (USGS, 1934; Polk County, Tennessee)

Located 75 feet northwest of north end of Ocoee Dam No. 2, and 10 feet north of road. A square cut in rock ledge, painted on rock "BM 1134.0".

NOTE: Searched for but not recovered, June 1957.

ELEVATION: 1133.551 feet or 345.507 meters (T-2)