

THIRD-ORDER LEVELING  
SEA LEVEL DATUM OF 1929

HAMBURG QUADRANGLE  
95 PENNSYLVANIA  
N4030-W7545/15  
DIAGRAM NK 18-11  
NEWARK

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Berks, Carbon, Lehigh and Schuylkill Counties

Final adjustment of 1971

Edition of 6/5/72

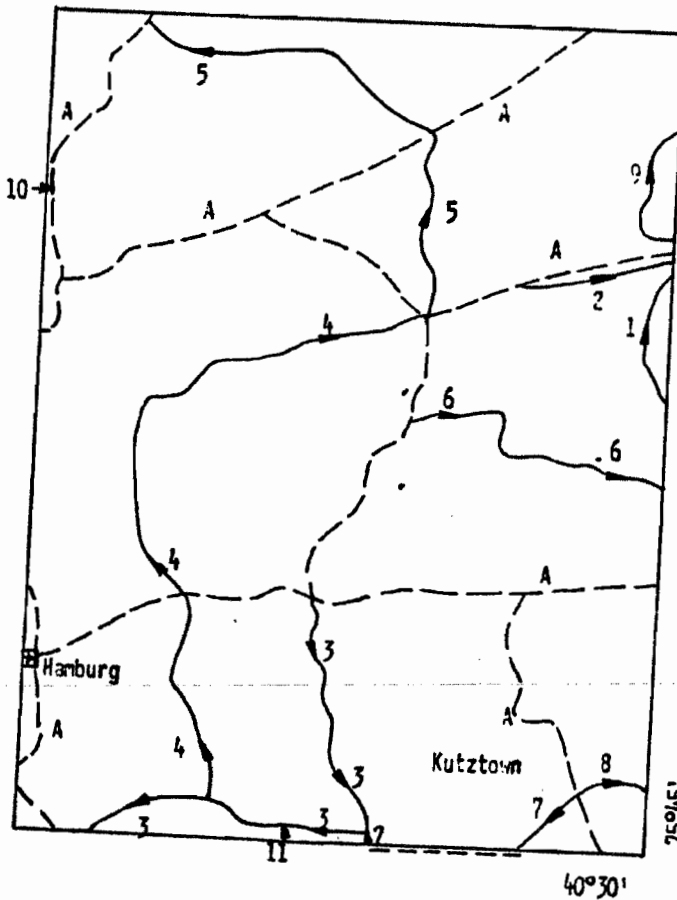
PR: GWK/jyk

Only the permanent marks  
are listed for lines  
run more than 25 years  
before edition date

HAZELTON  
(119)

POTTSVILLE  
(96)

ALBURTIS  
(94)



READING  
(72)

NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 400754

## INDEX OF PERMANENT MARKS

<u>MARK (USGS)</u>	<u>PAGE NO.</u>	<u>PENNSYLVANIA DEPT. OF HIGHWAYS</u>	<u>PAGE NO.</u>
NOT STAMPED (391.085)	3	NOT STAMPED (476.069)	4
1908 354	3	314.97	5
1908 373	3	319	5
1908 384	3	325	5
1908 443	3	410	5
1908 477	3	453	6
1908 514	3	454	7
1908 556	3	469	6
1908 568	3	481	6
1908 623	3	630	9
1908 728	3	631	7
1908 729	3	655	7
3 C 1936 649	4	656	7
TT 34 T 1942 724	7	673	7
1 EOM 1946 343	4	754	7
2 EOM 1946 326	4		
3 EOM 1946 445	5		
4 EOM 1946 471	5		
5 EOM 1946 896	6	<u>NGS</u>	
6 EOM 1946 1075	6		
7 EOM 1946 960	6		
8 EOM 1946 731	7	RV 85 1942	7
9 EOM 1946 RESET 1962	7	S 178 1942	5
10 EOM 1946 718	8	V 178 1942	4
TT 2 GDF 1946 432	5	Z 179 1942	7
TT 3 GDF 1946 459	5	B 191 1942	8
TT 4 GDF 1946 335	8	Z 191 1942	6
TT 6 GDF 1946 446	8	F 192 1942	6
TT 7 GDF 1946 484	8		

1908

## ISOLATED BENCH MARKS (By H. M. Gillman, Jr., 1908; Book A 7537)

Feet

Lynnport; 34 ft NW. of NE. corner of station; in NE. corner of rd. crossing; at store of S. J. Mantz; 15 ft E. of SW. corner of store; 2 ft W. of W. edge of basement door; in S. face of stone foundation; 1.5 ft above ground; standard tablet stamped "1908 477" (Tied by NGS, 1942)	476.712
Wanamaker; 0.6 mi SW. of station; 2.1 mi N. of Kempton; 100 ft W. of track; in W. face at NW. corner of two-story red brick farmhouse of N. D. Kistler; 1 ft above ground; standard tablet stamped "1908 443" (Tied by NGS 1942)	441.594
Kempton; 2.1 mi SW. of station; 0.1 mi N. of station shed at Greenawald; 35 ft W. of center of rd. that is parallel to track; 10 ft W. of W. rail; at bridge 24-30; in W. corner of S. abutment; standard tablet not stamped (Tied by NGS, 1942)	391.085
Lenhartsville; 0.1 mi N. of junction of U. S. Highway 22 and State Highway 143; 67 ft E. of center of hwy.; at church formerly a school; in W. face 2.1 ft N. of SW. corner of building; 1.7 ft above ground; standard tablet stamped "1908 384" (The number "4" is obliterated) (Tied by NGS, 1942)	384.392
Lenhartsville, 3.2 mi W. of; 2.4 mi NE. of post office at Hamburg, along U. S. Highway 22; at St. Pauls Reformed Church; 33 ft S. of center of hwy.; in N. face 2 ft W. of NE. corner of building; 2 ft above ground; standard tablet stamped "1908 568" (Reported disturbed, 1966)	568.480
Hamburg; at Armory Hall; in S. face near NW. entrance at NW. corner of building; about 200 ft SE. of post office; 24.6 ft E. of E. curb of street; 2.5 ft above sidewalk level; standard tablet stamped "1908 373" (Tied by NGS, 1942)	372.519
Rauschs; along Lehigh Valley Railroad; in N. corner of bridge seat of E. abutment, of overhead bridge over Reading Company Railroad; 5 ft N. of N. rail of track; 5 ft below track level; standard tablet stamped "1908 556" (Reported destroyed, 1956) (Tied by NGS 1942)	556.380
Kepner; 1.3 mi SW. of flag station; 270 ft NE. of rd. crossing; at large stone arch bridge PO-131 over creek; 9.6 ft N. of N. rail; 2.4 ft lower than track; in top step of NE. abutment; standard tablet stamped "1908 728" (Tied by NGS, 1942)	728.509
Dorset Station; 1.6 mi NE. of Kepner; 152 ft N. of N. rail of track; 36 ft W. of center of rd.; in N. face of second building N. of track; formerly store and dwelling owned by H. H. Staudt; 8.7 ft W. of NE. corner; 0.9 ft above ground; standard tablet stamped "1908 729" (Tied by NGS 1942)	728.893
Andreas; 1.7 mi SW. of station, along Lehigh Valley Railroad; in N. face of building; in SE. 1/4 of rd. crossing; 79 ft E. of centerline of rd.; 68.4 ft S. of S. rail of main track; 14.6 ft W. of NE. corner of building; 1.3 ft above ground level; standard tablet stamped "1908 623" (Tied by NGS, 1942)	623.116
Virginville; 0.22 mi SE. of station; on SW. side of rd. at St. James Evangelical Church; in N. face of NE. corner; standard tablet stamped "1908 354" (Reported destroyed, 1954)	354.274
Kutztown; at Keystone State Normal School; in W. face on N. side of main entrance to building; 2.5 ft above ground level; standard tablet stamped "1908 514"	513.730

1936

LINE 1.Feet

R. G. Clinite, 1936; Book B 6737

Lynnville; 280 ft N. of intersection of hwy.; 10 ft N. and 18 ft W. of forks of dirt rd. E.; in front of dwelling of Alvin J. Long; 3 ft N. of entrance steps; in concrete wall; 1 ft above finished grade of hwy.; standard tablet stamped "3 C 1936 649"

649.609

Reference mark; 260 ft S. and 30 ft E. of tablet; in SE. angle of hwy. intersection; on concrete headwall of drain; chiseled square

637.71

U.E., New Tripoli; 20 ft N. of junction of State Highway 143 and improved rd. S. to Lynnville; 3 ft E. of telephone pole; on top of concrete coping of drain; chiseled square

578.34

LINE 2.

R. G. Clinite, 1936; Book B 6737

Lynnport; 0.23 mi NE. of Reading Company Railroad station; 30 ft NW. of track; at 16-ft span concrete box-type hwy. culvert; in top of SE. wingwall of SW. abutment; PDH standard disk not stamped

476.069

U.E., Lynnport, 1.3 mi NE. of; 1.7 mi SW. of New Tripoli; 210 ft SW. of grade crossing; at RR. culvert; on NW. end of NE. stone abutment; chiseled circle

505.25

U.E., New Tripoli; 0.5 mi SW. of Reading Company Railroad station; at concrete viaduct, RR. over hwy.; 0.11 mi NE. of Ontelaunee Park; on S. end of E. abutment; level with base of rail; chiseled square

544.25

LINE 3.

E. O. Miner, 1946; Book V 278

"V 178 1942" (NGS)

366.092

U.E., Lenhartsville, 0.5 mi S. of, along RR.; 56 ft N. of crossing of graveled rd.; on N. end of E. headwall of RR. bridge; 6 ft E. of E. rail; chiseled square

366.07

Lenhartsville, 1.6 mi S. of; at Dreibelbis; 1.5 mi N. of Virginville; 100 ft N. of RR. station and rd. crossing; 11 ft W. of W. rail; in W. headwall of RR. bridge; standard tablet stamped "1 EQM 1946 343"

342.890

Reference mark; 60 ft W. of tablet; on wingwall of small dam; chiseled square

340.69

U.E., Virginville, 0.7 mi N. of; 21 ft E. of crossing of graveled rd. and RR.; on 3- by 3-ft concrete base of RR. warning sign; chiseled square

344.06

Virginville; 200 ft N. of RR. station; 40 ft N. of crossing of macadam rd.; in E. end of S. abutment of RR. bridge over Sacony Creek; standard tablet stamped "2 EQM 1946 326"

326.037

1946

LINE 3 (Cont'd.)Feet

Reference mark; 47 ft W. of tablet; on N. side of base of N. retaining wall of hwy. bridge over Maiden Creek; 3 ft NW. of SE. end; chiseled square	329.38
U.E., Virginville, 1.1 mi S. of; 0.8 mi N. of Moselem; 79 ft E. of crossing of gravelad rd.; 28 ft NW. of silo; 9 ft N. of center of rd.; on 3- by 3-ft base of RR. warning sign; chiseled square	323.10
Moselem; about 70 ft W. of crossing of State Highway 662 and Reading Company Railroad; 70 ft W. of station; in NE. abutment of hwy. bridge; PDH standard disk stamped "319"	319.288
Reference mark; 250 ft NE. of tablet; on SW. abutment of RR. bridge; chiseled square	318.27
Moselem; 70 ft W. of crossing of State Highway 662 and Reading Company RR.; at SW. corner of hwy. bridge; in top of wingwall; PDH standard disk stamped "314.97"	315.154
Shoemakersville, 1.7 mi E. of; at junction of lane N.; 17 ft N. and 20 ft E. of intersection of centerline; 1 ft N. of fence; in concrete post; standard tablet stamped "TT 2 GDF 1946 432" (Reported destroyed, 1969)	432.483
Shoemakersville, 0.7 mi E. of, along State Highway 662; in SW. abutment of concrete bridge; PDH standard disk stamped "325"	324.840

LINE 4.

E. O. Miner, 1946; Book V 278

Shoemakersville, 3.6 mi E. of, along State Highway 662, from junction with U. S. Highway 122; 1.9 mi S. of Windsor Castle; 1.8 mi W. of Moselem Hotel; 27 ft N. and 28 ft E. of center of Y-rd. junction; on concrete post; standard tablet stamped "TT 3 GDF 1946 459"	459.980
Reference mark; 0.1 mi S. of tablet; 7 ft W. of center of hwy.; on W. headwall of culvert; chiseled square	440.41
Shoemaker, 3.1 mi E. of, along State Highway 662; 1.1 mi S. of Windsor Castle; 41 ft SE. of junction of macadam rd. N. to Windsor Castle; 7 ft higher than rd.; in concrete post; standard tablet stamped "3 EOM 1946 445"	444.976
Windsor Castle, 0.8 mi S. of, along macadam rd.; 230 ft W. of junction of gravel rd.; in S.W. abutment of concrete bridge; PDH standard disk stamped "410"	410.350
Windsor Castle; in front of Windsor Castle Garage; 20 ft N. of intersection of two macadam rds.; in concrete foundation of gasoline pump; standard tablet stamped "4 EOM 1946 471"	470.654
Reference mark; 24 ft NW. of tablet; on end of concrete walk; chiseled square	469.86
"S 178 1942" (NGS)	602.676

1946

LINE 4 (Cont'd.)Feet

Hamburg Reservoir, 0.6 mi N. of, along old rd. to Eckville; at junction with Appalachian Trail; 30 ft S. of Appalachian Trail; at E. edge of rd.; 10 ft W. of boundary of Auxiliary game preserve; in top of 3- by 4-ft boulder; standard tablet stamped "5 EQM 1946 896"	896.033
Reference mark; 38 ft S. of tablet; in center of rd.; on top of 2- by 3-ft boulder; chiseled square	892.31
U.E., Hamburg Reservoir, 1.7 mi N. of; 2.9 mi S. of Eckville; on Appalachian Trail; on top of Blue Mountain; in center of rd.; on 1- by 2-ft boulder; chiseled square	1391.47
Eckville, 1.7 mi S. of, on Appalachian Trail; 50 ft S. of stream crossing; 6 ft W. of center of rd.; in top of 3- by 4- by 7-ft boulder; standard tablet stamped "6 EQM 1946 1075"	1074.539
Reference mark; 23 ft E. of tablet; 17 ft E. of center of rd.; on top of 4- by 3-ft boulder; chiseled square	1073.70
U.E., Eckville, 0.4 mi S. of; on graveled rd.; at T-junction with Appalachian Trail; on top of hill; 25 ft NW. of junction at edge of rd.; on 2- by 3-ft boulder; chiseled square	656.03
Eckville, 0.8 mi E. of; 5.6 mi SW. of Wanamaker; on macadam rd.; 0.17 mi N. of rd. junction at church; in SE. abutment of concrete bridge; PDH standard disk stamped "481"	480.392
Wanamaker, 3.7 mi SW. of, along macadam rd.; in SW. abutment of concrete bridge; PDH standard disk stamped "469"	468.287
Wanamaker, 1.0 mi SW. of, along macadam rd.; 130 ft W. of Y-junction of macadam rds.; on SW. abutment of concrete bridge; PDH standard disk stamped "453"	452.633
"Z 191 1942" (NGS)	435.232

LINE 5.

E. O. Miner, 1946; Book V 278

U.E., Wanamaker, 1.2 mi N. of, along rd. to Snyders; 25 ft NE. of NE. corner of barn; in center of rd.; on top of 1- by 1-ft boulder; chiseled square	514.32
Wanamaker, 2.5 mi N. of, along rd. to Snyders; 5 ft SE. of rd. junction; in top of 2- by 5-ft boulder; standard tablet stamped "7 EQM 1946 960" (Reported destroyed, 1956)	959.962
Reference mark; 10 ft W. of tablet; in center of rd.; on top of 1- by 2-ft boulder; chiseled square	1310.23
U.E., Snyders, 1.0 mi SE. of; 65 ft N. of farmhouse belonging to Clarence Wertman; 40 ft N. of Y-rd. junction; on top of 1- by 2-ft boulder; chiseled square	818.90
"F 192 1942" (NGS)	676.613

1946

LINE 5 (Cont'd.)Feet

Snyders, 0.4 mi SE. of, along State Highway 29; on SE. abutment of concrete bridge over Lizard Creek; PDH standard disk stamped "631"	630.577
Snyders, 0.7 mi NW. of, along State Highway 29; in SW. abutment of concrete bridge over large creek; PDH standard disk stamped "656" (Reported destroyed, 1956)	655.811
Snyders, 0.8 mi NW. of; 102 ft NE. of center of hwy.; in SE. abutment of concrete bridge on macadam rd. to Leighton; PDH standard disk stamped "655"	654.566
Snyders, 2.2 mi NW. of; 0.3 mi E. of Steigerwalt School, along State Highway 29; in SW. end of lowest concrete step to schoolhouse; standard tablet stamped "TT 34 T 1942 724"	724.039
Snyders, 2.9 mi NW. of, along State Highway 29, thence 0.8 mi W. along county macadam rd. 53021 to Reynolds; in SW. abutment of concrete bridge; PDH standard disk stamped "754"	754.232
U.E., Snyders, 2.9 mi NW. of, along hwy., thence 2.0 mi W. along county macadam rd.; 200 ft N. of macadam rd.; on SE. abutment of overpass over Lehigh and New England Railroad; chiseled square	852.64
Snyders, 6.5 mi NW. of; 1.7 mi E. of Reynolds, along county macadam rd.; in yard of Chain School; 70 ft SE. of rd. junction; 24 ft SW. of NW. corner of schoolhouse; in concrete post; standard tablet stamped "8 EQM 1946 731"	731.282
Reference mark; 40 ft NE. of tablet; on concrete step at entrance to Chain School; chiseled square	734.03
Reynolds, 0.8 mi E. of; at West Penn; 300 ft S. of main intersection, along State Highway 443; in NW. abutment of concrete bridge; PDH standard disk stamped "673"	673.383
"RV 85 1942" (NGS)	659.260

LINE 6.

E. O. Miner, 1946; Book V 278

"Z 179 1942" (NGS)	414.235
Kempton, 0.3 mi SE. of, along concrete rd. to Stony Run; in NW. abutment of concrete bridge; PDH standard disk stamped "454"	454.023
U.E., Kempton, 0.9 mi E. of; 1.2 mi W. of Stony Run, along concrete rd.; 72 ft SW. of SW. corner of large barn; on top of S. end of concrete culvert; chiseled square	623.05
Stony Run, 850 ft E. of main street, along rd. to Stines Corner; at Friedens Church (brick); 20 ft S. of S. entrance on W. side of church; 7.4 ft N. of SW. corner of church; 1 ft above ground; set vertically in W. face of concrete foundation of church; standard tablet stamped "9 EQM 1946 RESET 1962"	674.513

Book V 278

1946

LINE 6 (Cont'd.)Feet

Reference mark; on S. side of Friedens Church; on cellar step; chiseled square	670.67
Stines Corner; 30 ft SE. of intersection; in concrete post; standard tablet stamped "10 EQM 1946 718"	718.362
Reference mark; 40 ft W. of tablet; 20 ft SW. of intersection; on end of culvert; chiseled square	718.88

LINE 7.

E. O. Miner, 1946; Book V 278

"B 191 1942" (NGS) (Reported not found, 1956)	430.724
Kutztown; 1.3 mi SW. of post office, along U. S. Highway 222; 2.8 mi NE. of crossroad at Moselem Springs; 24 ft N. and 49 ft W. of intersection of centerlines of hwy. and rd. NW.; 23 ft SE. of power pole; 7 ft S. of fence; in concrete post; standard tablet stamped "TT 6 GDF 1946 446" (Reported not found, 1956)	445.777
Reference mark; 20 ft S. of tablet; on top of headwall of concrete culvert; chiseled square	446.58

Jogs into Reading quadrangle

Moselem Hotel, 1.7 mi E. of; 1.3 mi NW. of crossroad at Moselem Springs, along State Highway 662; at junction of rds. to Moselem Springs and Virginville; 2 ft S. of SE. corner of garage built onto old stone building; 9 ft N. of W. end of hedge; 18 ft SE. of SE. corner of stone building; in concrete post; standard tablet stamped "TT 4 GDF 1946 335" (Reported not found, 1954)	334.926
Reference mark; 70 ft SE. of tablet; on top of masonry culvert; chiseled square	339.59
U.E., Moselem; 0.6 mi E. of RR. station, along State Highway 662; 200 ft E. of macadam rd. to Molltown; on S. end of masonry culvert; chiseled square	325.56

LINE 8.

E. O. Miner, 1946; Book V 278

Kutztown; 1 block W. of post office, to Noble Street, thence 0.9 mi S. along rd. to Lyons, thence 140 ft E. on T-rd.; 13 ft S. of center of rd.; 4 ft SE. of small lone tree; in concrete post; standard tablet stamped "TT 7 GDF 1946 484"	484.355
Reference mark; 120 ft W. of tablet; on N. abutment of concrete culvert; chiseled square	482.38
U.E., Kutztown, 0.9 mi S. of, thence 0.8 mi E. and 0.1 mi S.; on SE. wingwall of bridge over Sacony Creek; chiseled square	412.86



1946

LINE 9.Feet

E. O. Miner, 1946; Book V 278

U.E., New Tripoli; 0.5 mi E. of; to junction of State Highways 143 and 29, thence NW. along State Highway 29 1.0 mi; 25 ft E. of center of hwy.; on headwall of concrete culvert; chiseled square

699.05

New Tripoli, 0.5 mi E. of, along State Highway 143 to junction of State Highway 29, thence NW. about 2 mi.; 300 ft NE. of crossroads; at SW. corner of bridge; in top of abutment; PDH standard disk stamped "630"

629.641

Reference mark; 350 ft SW. of tablet; 210 ft S. of crossroad; on E. headwall of concrete culvert; chiseled square

623.76

LINE 10.

R. E. Wells, 1942; Book B 9549

There are no permanent marks on this line in this quadrangle.

LINE 11.

E. O. Miner, 1946; Book V 278

There are no permanent marks on this line in this quadrangle.