

THIRD-ORDER LEVELING
SEA LEVEL DATUM OF 1929

READING QUADRANGLE
72 PENNSYLVANIA
N4015-W7545/15
DIAGRAM NK 18-11
NEWARK

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Berks County

Final adjustment of 1971

Edition of 4/10/72

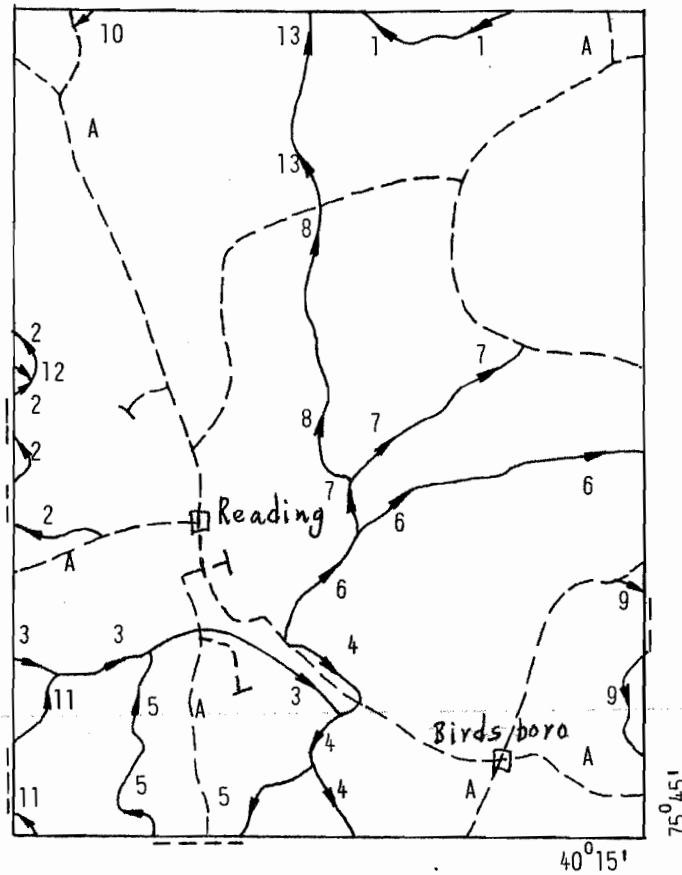
PR: GWK/jyk

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

HAMBURG
(95)

WERNERSVILLE
(73)

BOYERTOWN
(71)



HONEY BROOK
(49)

NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 400753

INDEX OF PERMANENT MARKS

<u>MARK (USGS)</u>	<u>PAGE NO.</u>	<u>PDH</u>	<u>PAGE NO.</u>
414	3	186	4
352	3	238	5
372	3	276	5
TT 5 GDF 1946 414	3	308	6
11 EOM 1946 342	3	348	4
12 EOM 1946 234	3	363	3
13 EOM 1946 390	4	366	7
17 EOM 1946 400	4	368	7
18 EOM 1946 257	4	371	3,6
19 EOM 1946 385	5	378	7
21 EOM 1946 785	5	382	7
22 EOM 1946 230	8	410 (410.191)	7
23 EOM 1946 199	8	410 (410.368)	7
24 EOM 1946 420	6	417	7
25 EOM 1946 318	6	421	7
26 EOM 1946 836	7	503	5
27 EOM 1946 913	8		
28 EOM 1946 776	8	<u>NGS</u>	
29 EOM 1946 374	9		
30 EOM 1946 541	9	F 2 1929	5,6
		N 172 1942	7
		U 181 1942	8
		RV 34	9

1913

ISOLATED BENCH MARKS (By K. F. Maxcy, 1913; Book A 9252)	<u>Feet</u>
Maiden Creek; in NW. corner of crossroads; at S. front of Half-Way House; at main entrance; in second step from bottom; standard tablet stamped "352" (Reported destroyed, 1949)	352.360
Moselem Springs, 1.4 mi NE. of; on S. side of Kempville Hotel; in SE. corner of concrete porch; standard tablet stamped "372"	372.306
Kirbyville; at S. front of hotel; in SW. corner of concrete porch; standard tablet stamped "414"	413.71
<u>LINE 1.</u>	
E. O. Miner, 1946; Book V 278	
Kempville; 2.3 mi SW. of Kutztown, along U. S. Highway 222; in SW. abutment of concrete bridge; Pennsylvania Department of Highways standard disk stamped "371"	370.677
Kempville, 0.8 mi SW. of; 1.1 mi NE. of Moselem Springs, along U. S. Highway 222; on NW. abutment of concrete bridge; Pennsylvania Department of Highways standard disk stamped "363"	364.493
Moselem Springs; 0.7 mi NE. of crossroads, along U. S. Highway 222; 35 ft S. and 35 ft E. of junction of T-rd. N.; about 6 ft higher than rd.; on NW. corner of concrete well cover; standard tablet stamped "TT 5 GDF 1946 414"	413.720
U.E., Moselem Springs; 40 ft SW. of intersection of State Highway 662 and U. S. Highway 222; on top of concrete culvert; chiseled square	422.49
<u>LINE 2.</u>	
E. O. Miner, 1946; Book V 278	
"L 2 1929 (NGS)	347.351
Westlawn; at Philadelphia and Reading Railway overpass over Woodside Avenue; in top of NW. abutment; standard tablet stamped "11 EOM 1946 342"	342.736
Reference mark; 50 ft E. of tablet; on top of lowest step of NE. abutment; chiseled square	329.95
U.E., Reading, about 4.0 mi NW. of, along concrete rd. toward State Hill; at crossroad with macadam rd. between Van Reed and Sinking Spring; 25 ft SE. of intersection; on top of concrete culvert; chiseled square	311.625
<u>[Jogs into Wernersville quadrangle]</u>	
Van-Reeds Mill; 60 ft NW. of NW. corner of mill; in top of NW. corner post of concrete bridge; standard tablet stamped "12 EOM 1946 234"	234.670
Reference mark; 450 ft S. of tablet; 15 ft W. of center of rd.; on NE. corner of platform of scales; chiseled square	257.82
<u>[Jogs into Wernersville quadrangle]</u>	
U.E., Van Reeds Mill; 1.7 mi N. of, along macadam rd. to Epler Church; about 0.1 mi E. of gate of Berks County Prison; 115 ft W. of Y-rd.; on N. headwall of concrete culvert; chiseled square	304.08

1946

LINE 2 (Cont'd.)Feet

Van Reeds Mill, 2.8 mi N. of; 0.2 mi W. of Epler Church; 50 ft NE. of Y-junction of macadam rds.; 10 ft SW. of small stream; in concrete post; standard tablet stamped "13 EOM 1946 390"

390.403

LINE 3.

E. O. Miner, 1946; Book V 278

U.E., Mohnton; at NW. corner of Mohnton Cemetery; on top of base of concrete fence; chiseled square

478.08

Mohnton; 90 ft NE. of intersection of trolley tracks and S. Church Street; 3 ft NW. of NW. rail; in top of concrete retaining wall; standard tablet stamped "17 EOM 1946 400"

400.695

Reference mark; 130 ft SE. of tablet; in front of St. John's Lutheran Church; on second step above sidewalk; chiseled square

400.83

U.E., Mohnton, 0.8 mi W. of, along macadam rd. toward Grill; at Cedartop School; on top of second front step from bottom; chiseled square

546.64

Mohnton, 2.1 mi E. of; 0.8 mi SW. of Grill; about 3.0 mi S. of Reading, along State Highway 73; at junction of macadam rd. to Mohnton; 110 ft S. of Y-junction; on NW. abutment of concrete bridge over Angelica Creek; PDH standard disk stamped "348"

348.651

Reference mark; 80 ft NW. of disk; on top of S. end of concrete culvert over Angelica Creek; chiseled square

347.08

U.E., Grill; 100 ft SW. of Centre House Hotel; 45 ft S. of macadam crossroads; on top of 2- by 2-ft concrete base of sign; chiseled square

304.12

Grill, 1.2 mi NE. of; about 2 mi S. of Reading, along U. S. Highway 122; 95 ft S. of Y-junction with macadam rd. to Grill; 95 ft NE. of Mountain View Hotel; 25 ft W. of center of hwy.; in concrete post; standard tablet stamped "18 EOM 1946-257"

257.018

Reference mark; 0.2 mi NE. of tablet; on SW. abutment of steel bridge on U. S. Highway 122; over Angelica Creek; chiseled square

224.26

U.E., Grill, 1.5 mi NE. of, thence 0.8 mi SE.; 2.5 mi NW. of Gibraltar; about 2.0 mi S. of Reading, along State Highway 83; 0.4 mi W. of bridge over Schuylkill River; on NE. corner of concrete and stone overpass over N. track of Reading Co. RR.; chiseled square

260.12

Gibraltar, 1.5 mi NW. of; about 3 mi SE. of Reading, along State Highway 83; 0.2 mi E. of RR. crossing; set vertically in E. end of S. end wall of concrete bridge; PDH standard disk stamped "186"

186.412

1946

LINE 3 (Cont'd.)Feet

Reference mark; 0.15 mi W. of disk; 230 ft S. of rd. crossing; on top of N. abutment of Pennsylvania Railroad bridge; chiseled square	226.07
U.E., Gibraltar; at Pennsylvania RR. bridge over Allegheny Creek and macadam rd.; at SE. abutment; 25 ft NE. of SW. end; in center of 4-in. chiseled square; copper bolt (PA. RR. BM 41)	190.482
Reference mark; 0.14 mi NE. of copper bolt; at bridge of abandoned street railway over Allegheny Creek; on NE. abutment; chiseled square	183.24

LINE 4.

E. O. Miner, 1946; Book V 278

"F 2 1929" (NGS)	223.759
U.E., Neversink, 1.4 mi SE. of; 0.7 mi N. of Gibraltar, along macadam rd.; at Reading Company RR. overpass over macadam rd.; on top of NW. abutment; chiseled square	197.43
Gibraltar, 1.0 mi SW. of, along macadam rd. to White Bear; at steel bridge over Allegheny Creek; in NW. abutment; PDH standard disk stamped "238"	238.001
Reference mark; 0.17 mi SW. of disk; 180 ft S. of Y-junction of macadam rds.; 25 ft W. of center of N. end of bridge; on top of boulder cemented in top of dam; chiseled square	244.86
U.E., Gibraltar, 2.0 mi S. of, along macadam rd.; 120 ft E. of crossroads; 5 ft E. of SE. corner of garage; on top of N. headwall of masonry culvert; chiseled square	350.44
Gibraltar, 3.0 mi S. of, along macadam rd. toward White Bear; 45 ft SE. of junction of driveway; 9 ft E. of fence corner; in concrete post; standard tablet stamped "19 EOM 1946 385"	385.374
Reference mark; 25 ft SE. of tablet; on top of E. side of curb of abandoned well; chiseled square	385.00

LINE 5.

E. O. Miner, 1946; Book V 278

Gibraltar, 2.4 mi SW. of, along macadam rd.; on NE. abutment of concrete and steel bridge over Allegheny Creek; PDH standard disk stamped "276"	276.177
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[Jogs into Honey Brook quadrangle]

Angelica, 0.3 mi SW. of, along State Highway 73, thence 0.7 mi SE. along macadam rd. to crossroads, thence 0.3 mi NE.; 30 ft S. of Y-rd. junction; on bank at edge of woods; in concrete post; standard tablet stamped "21 EOM 1946 785"	785.208
Angelica; at concrete bridge on State Highway 73 over Angelica Creek; in SE. abutment; PDH standard disk stamped "503"	502.652

1946

LINE 5 (Cont'd.)Feet

Angelica, 1.7 mi N. of; about 3 mi S. of Reading along State Highway 73; 0.2 mi S. of junction with macadam rd. to Mohnton; on NE. abutment of concrete bridge over Angelica Creek; PDH standard disk stamped "371" 370.573

LINE 6.

E. O. Miner, 1946; Book V 278

"F 2 1929" (NGS) (Also in line 4) 223.759

U.E., Reading, about 3 mi SE. of, along U. S. Highway 422; 55 ft SW. of junction with macadam rd. to Neversink; on top of concrete culvert; chiseled square 270.92

Reading, about 2 mi E. of, along State Highway 562; 1.3 mi W. of Jacksonwald; at concrete bridge over Antietam Creek; on NE. abutment; PDH standard disk stamped "308" 308.022

Reference mark; 260 ft E. of disk; on top of NW. end of concrete culvert; chiseled square 314.08

U.E., Jacksonwald; 85 ft E. of macadam crossroads; in front of Jacksonwald Hotel; 55 ft NW. of small brick schoolhouse; on top of concrete culvert; chiseled square 348.57

Jacksonwald, 1.4 mi NE. of, along macadam rd. to Oley Line; 85 ft E. of crossroads; 15 ft NE. of center of graveled rd.; in concrete post; standard tablet stamped "24 EOM 1946 420" 420.138

Reference mark; 85 ft W. of tablet; on SW. headwall of culvert; chiseled square 418.19

U.E., Oley Line; also called Limekiln; at concrete bridge over Monocacy Creek; on SW. abutment; chiseled square 276.31

Oley Line, 1.2 mi NE. of, along macadam rd.; midway between stone house and stone barn; 18 ft S. of center of rd.; 2 ft S. of pole; in concrete post; standard tablet stamped "25 EOM 1946 318" 318.214

Reference mark; 200 ft E. of tablet; 6 ft S. of E. end of gate; on top of 1- by 4-ft boulder; chiseled square 325.54

U.E., Oley Line, 2.3 mi NE. of, along macadam rd.; 30 ft SE. of crossing of State Highway 662; on top of 2- by 3-ft boulder; chiseled square 332.56

LINE 7.

E. O. Miner, 1946; Book V 278

U.E., Jacksonwald, 1.3 mi W. of, along State Highway 562, thence 0.6 mi N. along macadam rd.; 1.3 mi S. of Stony Creek Mills; about 300 ft N. of entrance to Carsonia Park; on SW. abutment of concrete bridge over Antietam Creek; chiseled square 333.20

1946

LINE 7 (Cont'd.)Feet

Stony Creek Mills; in SE. abutment of concrete bridge on State Highway 73 over Antietam Creek; PDH standard disk stamped "417"	416.548
Stony Creek Mills; on NW. abutment of same bridge; PDH standard disk stamped "421"	421.108
Stony Creek Mills, 0.6 mi NE. of, along State Highway 73; in NE. abutment of concrete bridge; PDH standard disk stamped "449"	448.730
U.E., Stony Creek Mills, 2.2 mi NE. of, along State Highway 73; 180 ft W. of five-way rd. intersection; 22 ft S. of center of hwy.; on NW. corner of 3- by 3-ft concrete base of sign; chiseled square	718.51
Stony Creek Mills, 3.4 mi NE. of; 2.0 mi SW. of Friedensburg (Oley Post Office), along State Highway 73; on NW. abutment of concrete bridge; PDH standard disk stamped "382"	381.908
Friedensburg, 1.8 mi SW. of, along State Highway 73; 65 ft E. of crossroads; in NE. abutment of concrete bridge; PDH standard disk stamped "378"	377.773
Friedensburg, 1.4 mi SW. of, along State Highway 73; 15 ft S. of small dam; in NE. abutment of concrete bridge; PDH standard disk stamped "366"	365.823
Friedensburg, 1.2 mi SW. of, along State Highway 73; in NE. abutment of concrete bridge; PDH standard disk stamped "368"	367.607
Friedensburg, 0.3 mi SW. of, along State Highway 73; at offset crossroads; in N. abutment of concrete bridge; PDH standard disk stamped "410"	410.368
Friedensburg, 0.3 mi SW. of, along State Highway 73; 140 ft NE. of standard disk described above; in N. abutment of concrete bridge; PDH standard disk stamped "410"	410.191
"N 172 1942" (NGS)	444.897

LINE 8.

E. O. Miner, 1946; Book V 278

U.E., Stony Creek Mills, 1.1 mi NW. of, along macadam rd. past Antietam Reservoir; 12 ft SW. of T-junction of macadam rds.; on top of W. headwall of culvert; chiseled square	568.35
Stony Creek Mills, 1.1 mi NW. of, along macadam rd., thence 1.4 mi NE.; 85 ft S. of T-junction; 18 ft E. of center of rd.; in top of 4- by 5- by 9-ft boulder; standard tablet stamped "26 EOM 1946 836"	835.798
Reference mark; 18 ft NE. of tablet; on top of 2- by 4-ft boulder; chiseled square	832.46
U.E., Stony Creek Mills, 3.6 mi NW. of; 2.0 mi NE. of Bernharts, along concrete rd. to Pricetown; at NE. end of Deer Path Hill; 30 ft SW. of T-junction with macadam rd. S.; on top of headwall of concrete culvert; chiseled square	677.87

1946

LINE 8 (Cont'd.)Feet

Bernharts, 3.2 mi NE. of, along concrete rd. to Pricetown; at Webers Hotel; 45 ft SW. of four-way rd. junction; 9 ft S. of concrete headwall of culvert; in concrete post; standard tablet stamped "27 EOM 1946 913"	912.422
Reference mark; 55 ft E. of tablet; on top of headwall of culvert; chiseled square	910.05
U.E., Bernharts, 4.3 mi NE. of, along concrete rd.; 3.1 mi SE. of Blandon; at macadam cross road; 40 ft S. of intersection; on top of headwall of concrete culvert; chiseled square	906.62
Blandon, 2.0 mi SE. of, along macadam rd.; at Kurtyka's Hotel; 170 ft S. of crossroads; 20 ft SE. of large barn; 15 ft W. of center of macadam rd.; in concrete post; standard tablet stamped "28 EOM 1946 776"	776.263
Reference mark; 50 ft NE. of tablet; on top of S. end of concrete curbing; chiseled square	777.21
U.E., Blandon, 1.3 mi SE. of, along macadam rd.; 40 ft SW. of junction of driveway; 9 ft SW. of fence corner; on top of 1- by 2-ft boulder; chiseled square	639.10

LINE 9.

E. O. Miner, 1946; Book V 278

"U 181 1942" (NGS)	292.978
[Jogs into Boyertown quadrangle]	
Weavertown, 1.3 mi S. of, along unimproved rd. toward Monocacy Hill; in SE. corner of bridge floor; standard tablet stamped "22 EOM 1946 230"	230.432
U.E., Weavertown, 2.0 mi S. of, along unimproved rd.; 73 ft N. of V-rd. junction; on top of 3- by 5-ft boulder; chiseled square	368.20
Douglassville, 1.6 mi W. of, along U. S. Highway 422; at T-junction of unimproved rd. to Weavertown; 16 ft W. of edge of pavement; 7 ft N. of telephone pole; in concrete post; standard tablet stamped "23 EOM 1946 199"	199.285
Reference mark; 250 ft N. of tablet; on NE. corner of bridge floor; chiseled square	181.62

LINE 10.

E. O. Miner, 1946; Book V 278

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

LINE 11.

E. O. Miner, 1954; Book AV 388

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

LINE 12.Feet

E. O. Miner, 1954; Book AV 388

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

LINE 13.

E. O. Miner, 1946; Book V 278

"RV 34" (NGS)

417.637

U.E., Blandon, 1.0 mi NE. of, along macadam rd., thence 0.1 mi NW. along unimproved rd.; 60 ft N. of bridge over Willow Creek; 15 ft E. of center of rd.; on top of 2- by 2-ft boulder; chiseled square

336.54

Blandon, 2.5 mi along rds. NE. of; 1.2 mi SE. of Molltown; 0.6 mi SW. of Kirbyville; 45 ft N. of intersection of U. S. Highway 222 and Molltown-Walnuttown macadam rd.; in concrete post; standard tablet stamped "29 EQM 1946 374"

373.678

Reference mark; 430 ft SW. of tablet; on top of SE. headwall of concrete culvert; chiseled square

368.43

U.E., Molltown, 0.2 mi S. of, along macadam rd.; 120 ft SE. of crossroad; 20 ft NE. of center of rd.; on top of concrete wingwall of culvert; chiseled square

420.91

Molltown, 1.2 mi NE. of, along macadam rd.; in top of concrete wall extending S. from SW. corner of St. Peters School; standard tablet stamped "30 EQM 1946 541"

541.406

Reference mark; 240 ft S. of tablet; on top of S. headwall of masonry culvert; chiseled square

540.42