



The Maryland Geological Survey's Inventory of the Surviving Mason-Dixon Line Stones



Agenda

- 1. Introduction.
- 2. The Inventory.
- 3. The Popular Mechanics article. “Walking the Line” Nov./Dec. 2023
- 4. Stones of interest.



Presenter

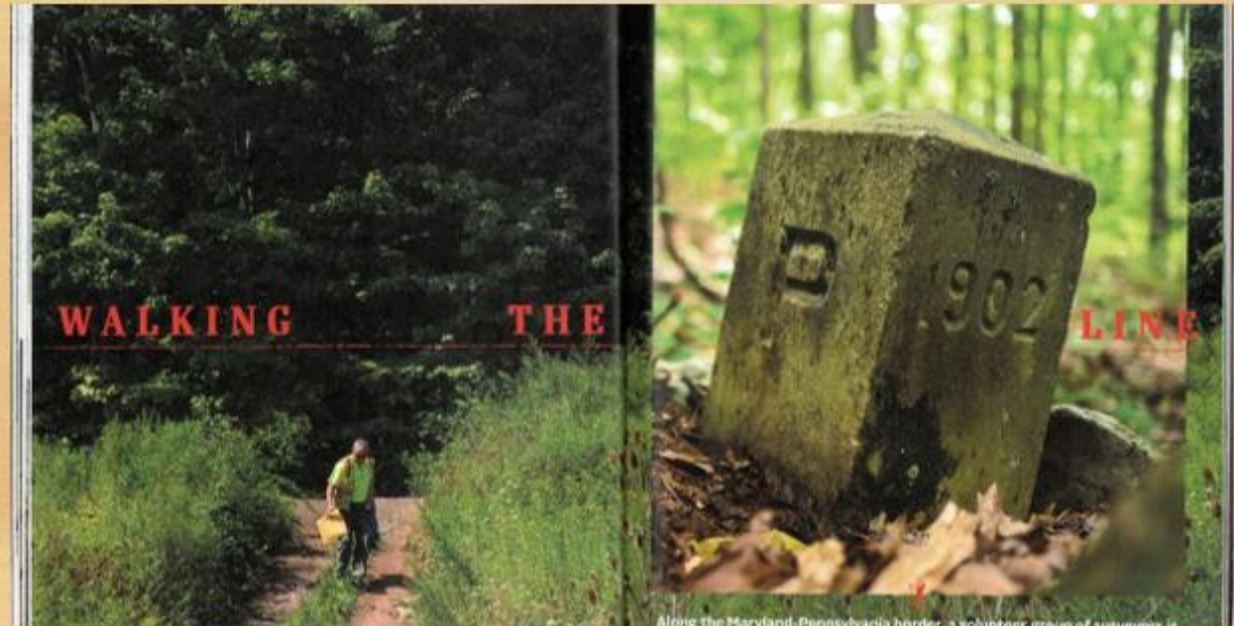
Wayne F. Aubertin,

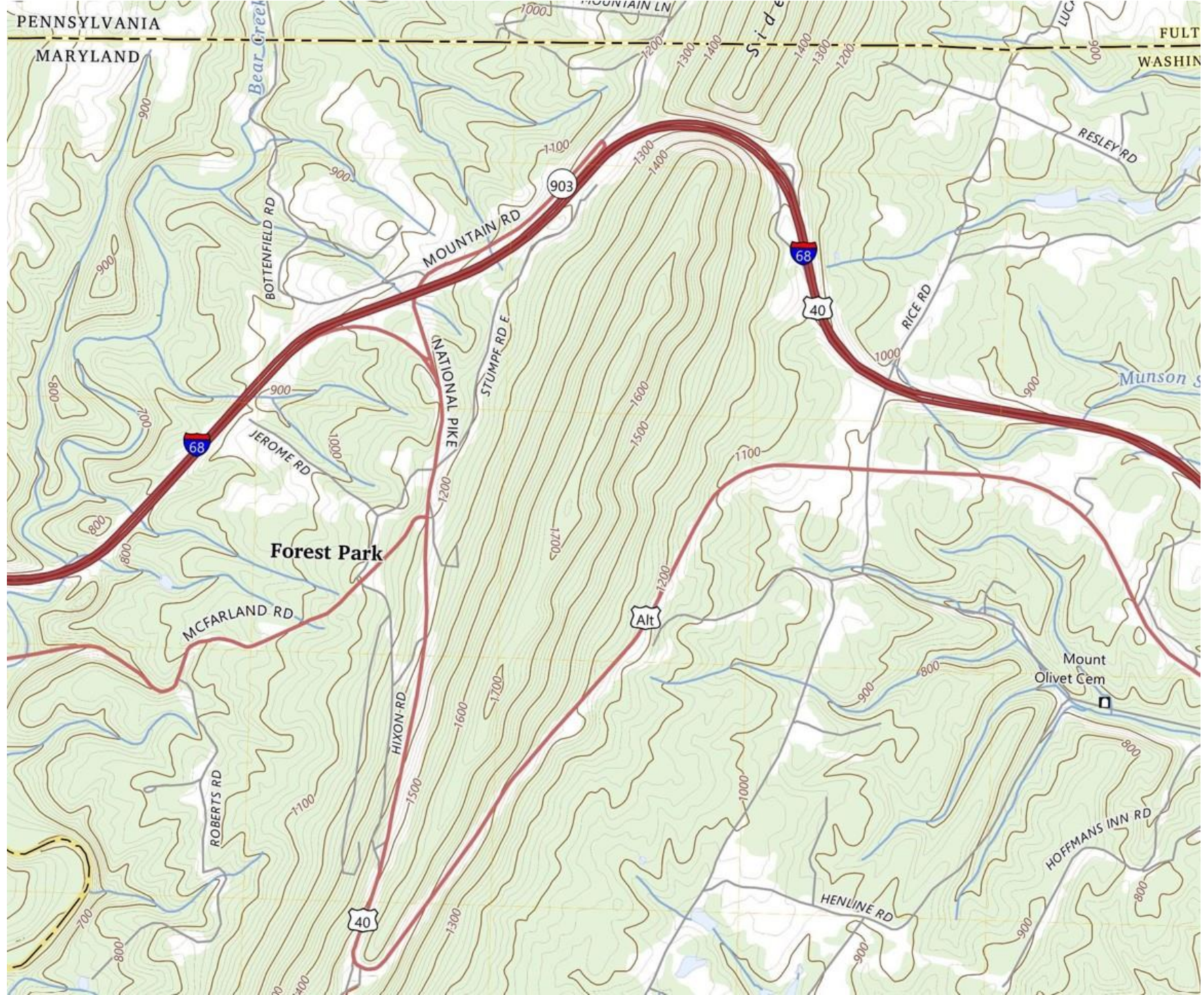
- Professional Land Surveyor MD. Reg. #21330
- In the business since 1984
- Obtained my professional license in 2008
- Chapter Chair, Appalachian Chapter (Frederick & Washington Counties)
- State Coordinator for the NSPS Trigstar Program
- Vice President for the MSS Board.
- Chair of the Survey Standards and Practice Committee, MSS Board
- 2023 Maryland Surveyor of the Year

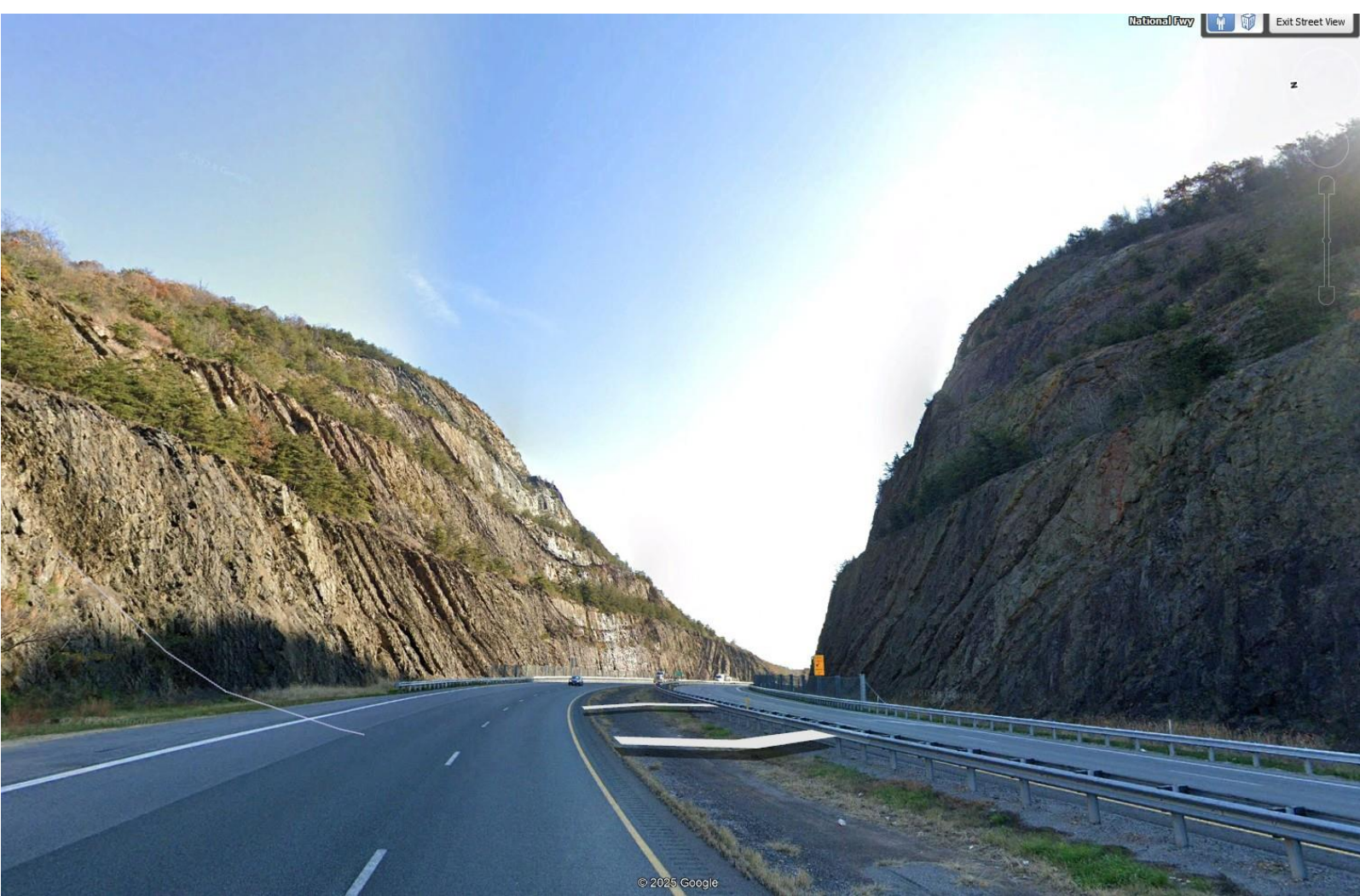
Presenter

Ashley Stimpson,

- Maryland-based freelance journalist who writes most often about science, conservation, and outdoor adventure.
- Bylines in the New York Times, the Washington Post, Science, The Guardian, Popular Mechanics, WIRED, and lots of other outlets.
- Currently serving as 1st Vice President, Outdoor Writers Association of America & as a 2025-2026 Alicia Patterson Fellow in environmental reporting.







976 JOURNAL OF PROCEEDINGS [Mar. 23,

MONDAY, March 23rd, 1874.

The House met and was opened with prayer by the Rev. Father Oberly.

Present at the call of the roll, the following members:

Messrs. Hines, (Speaker,) Colton, Henkle, Robinson, Turner, of Calvert, Lancaster, Hawkins, Keech, Merryman, Turner, of Bait, co., Seth, Valliant, Sudler, Duer, Johnson, Hodson, Turner, of Cecil, Latchford, Robey, Thompson, Kemp, Pruitt, Lamar, Annan, Lee, Williams, McCosker, T. H. Hamilton, Cooper, C. R. Hamilton, McWilliams, Staylor, Stewart, of Bait. city, McAleese, Gill, Hart, Leane, Greenfield, McColgan, Joyce, Groh, Fenton, Stake, Clark, Watkins, Fletchall, Park, Brace, Waters, Vanderford, Maclin, Bedsworth, Glotfelty—53.

The Speaker laid before the House the official returns of the special election held in Baltimore county, on the 18th instant, to elect a member of the House of Delegates, to fill the vacancy occasioned by the death of the Hon. Robert Fowler.

Which was read and referred to the Committee on Elections.

Hon. Andrew Banks, members elect from Baltimore county, appeared, qualified, and took his seat.

Mr. T. H. Hamilton presented the petition of A. J. Stewart and one hundred and twenty policemen, asking for increase of pay.

Which was read and referred to the Baltimore City delegation.

Mr. Merryman presented the petition of J. F. C. Talbot, Adam D. Talbot, Thomas D. (jockey, Jr., and eight other relatives of Penelope D. Gist, against the transfer of a certain graveyard in Baltimore county.

Mr. Stake submitted the order:

In the year 1768, the Commissioners appointed to mark the boundary line between the Provinces of Maryland and Pennsylvania, (the line now known as Mason and Dixon's line,) in executing their commission, did set up and erect stone monuments, for the distance of one hundred and thirty-two miles west from the place of beginning. The beginning was at the eastern extremity of boundary line, and from thence the Commissioners proceeded with the erection of these stone monuments a due west course until they reached the foot of Sideling Hill. The stones used as monuments were dressed stone, imported from England, and were placed on the line a mile apart. At every five

miles distance, the stone had on the side facing north, the arras of Thomas Penn and Richard Penn graved, and on the south side, the arms of Frederick Lord Baltimore graved, and on the intermediate stones were graved on the north side, the letter P, and on south side, the letter M, (Pennsylvania—Maryland.)

132 Miles/Stones

These Commissioners having reached as far west as the foot of Sideling Hill, found the stones prepared to be placed on the line, as monuments were exhausted. They then proceeded to mark the line by erecting on the tops of ridges and mountains, over which the line passed, heaps or piles of stone and earth from six to seven feet in height.

63.5 Miles Remain

The stone which were used as monuments were imported from England, and were landed at either Philadelphia or New Castle, the nearest port to the place where they were to be used. As all these imported stone had been used, and the western portion of the boundary line had been only marked by piles of stone and earth, it became necessary to import from England other stone to be used as monuments on the line. And accordingly, in the year 1769, or the following year, another importation was made, and these stones were landed at Alexandria. From Alexandria they were transported to Fort Frederick, on the Potomac River, where they still remain. The failure to use these stone as monuments was probably from the difficulty to reassemble the Commissioners at a point so distant from their homes, or from the dangers they would incur in an unsettled country infested with hostile Indians. And the Revolution occurring so soon after, the political agitation had also an effect in preventing the completion of the work of the Commissioners in erecting these stone monuments on the boundary of Maryland and Pennsylvania. And for a century they have remained at Fort Frederick, unused for the purpose for which they were imported from England. These stones are no doubt the property of the State of Maryland, and she has a right, at such period as she wishes, to reclaim them.

Predicated on the foregoing statement, it has been deemed of sufficient importance to make an inquiry after these monumental stones at Fort Frederick, in order to ascertain their number and character, and whether they are of any practical value or not.

I have therefore thought proper to submit the following order:

Ordered, That the Governor be requested to appoint a suitable person to examine these monumental stones at Fort Frederick, and report to him their number and condition, and all information in relation thereto, but not to incur any expense without the authority of the Governor.

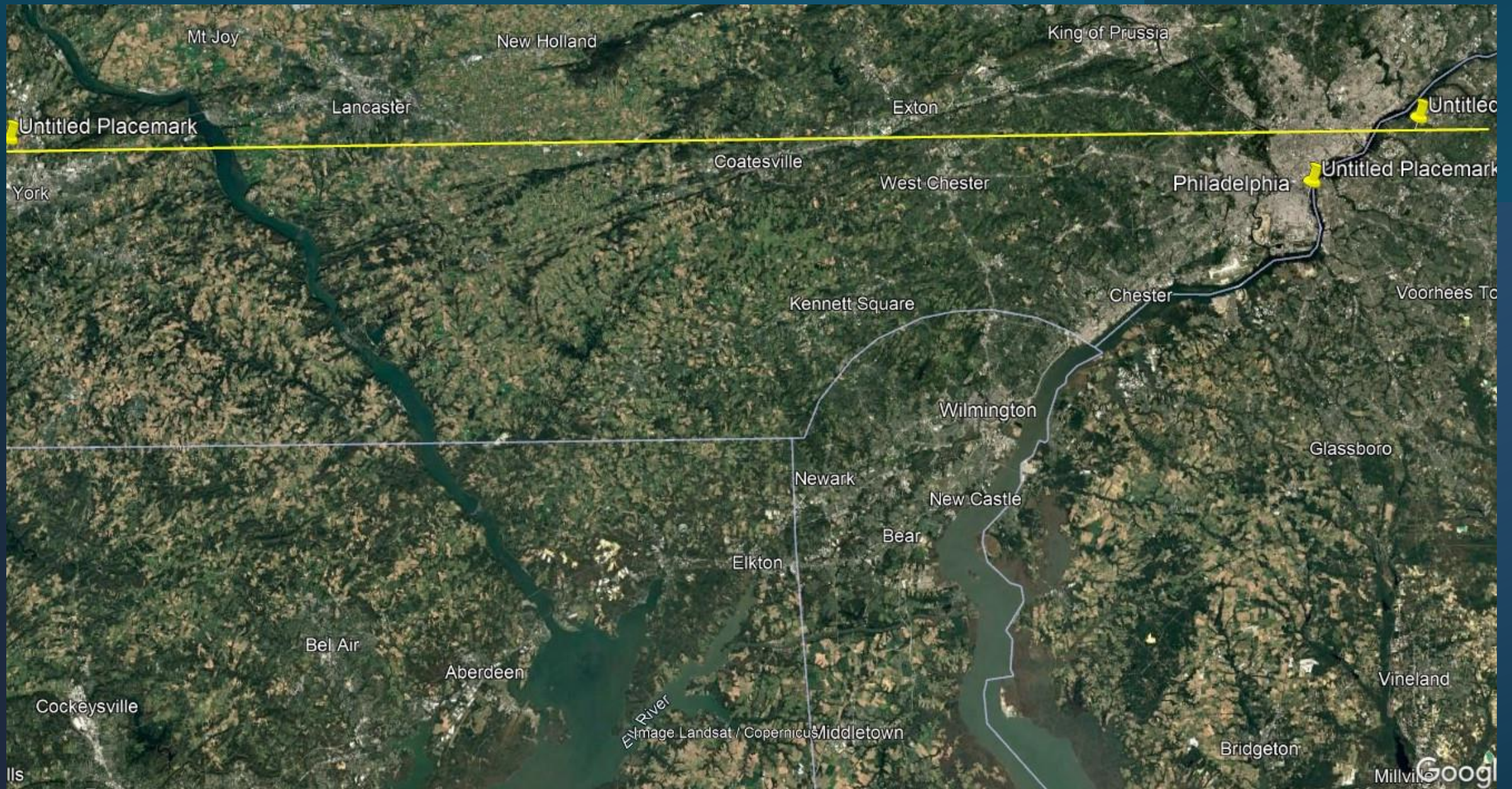
Which was adopted.



Constructed in 1754
At the outset of the
French & Indian War









MASON-DIXON SURVEY



Here, in 1763, the southernmost point of Philadelphia was determined as the starting point for the survey of one of the most important borders in the nation. Charles Mason and Jeremiah Dixon took scientific measurements of a degree of latitude, elevating professional surveying standards. The survey ended a land dispute begun by William Penn and Lord Baltimore. Western Pa. Indian wars and severe weather delayed completion of the line until 1768.

PENNSYLVANIA HISTORICAL AND MUSEUM COMMISSION 2013®

The Inventory

The State of Maryland is supposed to conduct a survey of all State markers every 10 years. They have not...

In the 1980's a woman named Alice Martin conducted a rather comprehensive inventory of the stones and her reports were very useful in this recent effort.

Also the MASON DIXON LINE PRESERVATION PARTNERSHIP did some work inventorying the stones in the early 1990's, including GPS'ing 132 stones, east of the mountainous area. The MDLPP maintains a website with a lot of interesting info.

In 2019 MGS designed a survey to record the inventory. Chris Connallon, State Geologist and Richard Ortt, Director headed the effort, and with the assistance of Maryland Surveyor Pat Simon, put together information for the inventory and put out the call for volunteers.

The Goals: 1) to satisfy the 10 year "requirement" because it had been nearly 4 decades since the last effort
2) to get the markers on the National Historic Registry.

Approximately 15 surveyors volunteered, searched and inventoried the 230 locations



Planning to perform the inventory

- Access Letters (from both Maryland and Pennsylvania)
- Sign Up Sheet
- GoogleEarth and a KMZ
- Collecting and Submitting information

Mason Dixon access memo

 Christopher Connallon -DNR- <christopher.connallon@maryland.gov>
To  Wayne Aubertin

  Reply  Reply All  Forward  

Tue 2/18/2020 11:13 AM

 You forwarded this message on 9/29/2021 1:46 PM.
Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

-  AubertinMasonDixonMGSAccess Memo.pdf
138 KB
-  Aubertin Mason Dixon Marker letter.pdf
160 KB

Hi Wayne,

Attached to this email you'll find two access memos, one from Maryland and one from Pennsylvania, that authorizes you to access properties associated with the Mason Dixon monument survey. Please save or print these memos, and have them with you when you're in the field.

These letters do not give anyone carte blanche to enter private property nor does it give anyone any entitlements outside of the Mason-Dixon monument resurvey. If the private landowner wishes further confirmation, please encourage them to contact me. Most of the landowners I have met are very proud of the monument that they feel is in their care. We should always treat these landowners with respect and welcome them to be part of the resurvey should they wish to communicate any local knowledge or stories associated with the monument.

If you'd like to coordinate with me when you're planning to survey, we can send someone from DNR to meet you on site to capture some video/photos for the mid-march kickoff event.

Thanks again for participating in this survey, and again if you have any issues with the app or accessing any of the documentation we've prepared, do not hesitate to call/email me.

Happy Surveying!!
-Chris

 The linked image cannot be displayed. The file may have been moved, renamed, or deleted. Verify that the link points to the correct file and location.


dnr.maryland.gov

Christopher B. Connallon
Geologist, Maryland Geological Survey
Department of Natural Resources
2300 St. Paul St.
Baltimore, MD 21218
410-554-5541
christopher.connallon@maryland.gov



Larry Hogan, Governor
Boyd Rutherford, Lt. Governor
Jeannie Haddaway-Riccio, Secretary
Charles Glass, Deputy Secretary

January 15, 2020

Greetings,

The State of Maryland, Commonwealth of Pennsylvania, Maryland Society of Surveyors, and the Pennsylvania Society of Land Surveyors are embarking on a survey to document and photograph all of the monuments on the historic Mason-Dixon line. This project commences on February 1, 2020 and ends on August 30, 2021.

Last Submission: 06/21/2023

Most markers, while the joint property of Pennsylvania and Maryland, are located on private property and require access through private property. We respect you, your property, your crops and animals, and all other property owners in the state. Therefore, I ask that you allow the surveyors named below to access the monument located on your property. These surveyors, while not employees of the State, have volunteered their time and professional skills to assist in this project. Without their hard work, we will not be able to document the monuments nor the story of the Mason and Dixon line. Following their work, you will be able to track the data collected and the progress of this work online at www.mgs.md.gov.

This project is momentous and will include efforts from surveyors all across Pennsylvania and Maryland. At the end, all of the markers and the condition of the markers will be viewable to the public, historians, and storykeepers. I ask that you be a part of this survey by helping the surveyors with access and letting them know of any local stories surrounding the monument.

Should you have any questions regarding this work, the identity of the surveyors, or the data collected, please call Christopher Connallon at 410-554-5541.

Identification Number	MGS-3484
Name	Wayne Aubertin
Organization	MHG, PA
Location	Mason-Dixon Monuments

211:211 187a

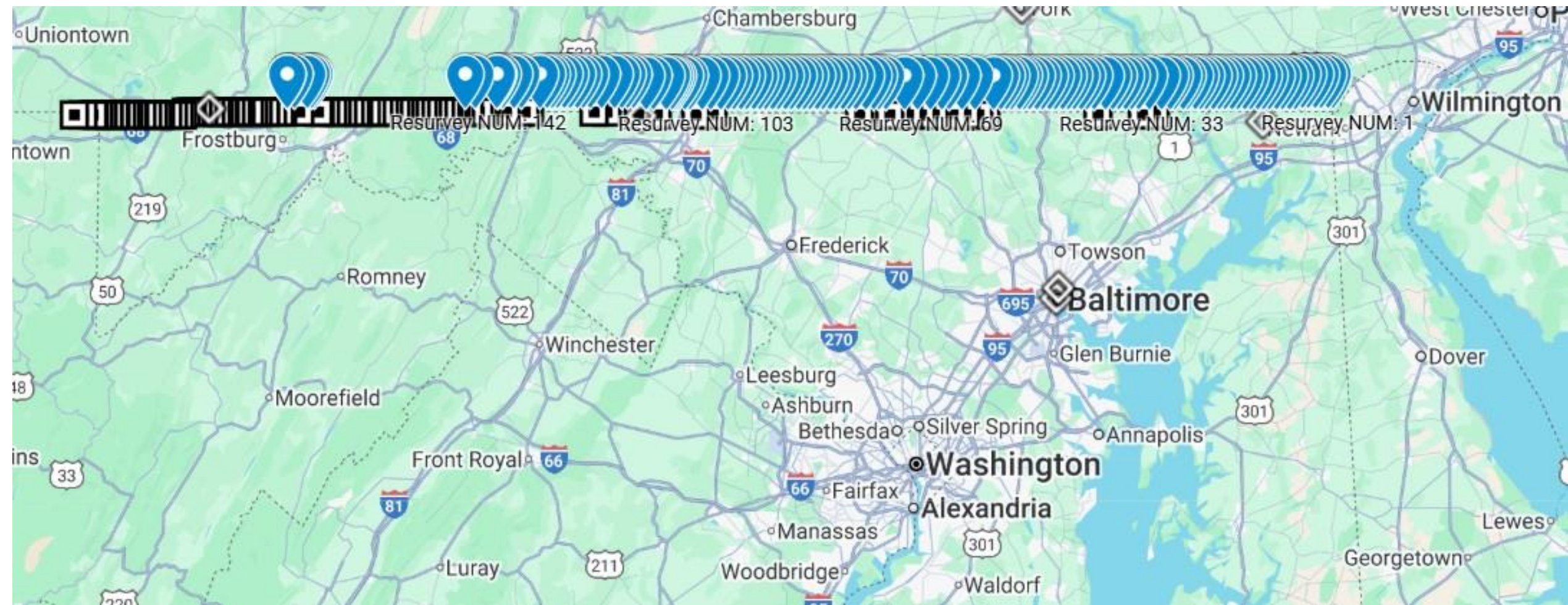
	A	B	C	D	E	F	G	H	I	J
1	Monument Number (miles)	RESURVEY (QUAD) NUM	LATITUDE - reference only from 90s survey	LONGITUDE - reference only from 90s survey	MD county	PA county	Your Name	Your Oranization	Your email	
2	0	1	N 39°43'19.92216" (NGS)	W 75°47'18.93851" (NGS)	Cecil	Chester	Patrick Simon	MDLPP/MSS	pat.simon83@gmail.com	SUBMITTED
3	1	2	N 39°43'19.78909'	W 75°48'26.61755'	Cecil	Chester	Kelly Lowe	Nichols Excavation	klowe@nicholsconstructiongroup.com	SUBMITTED
4	2	3	N 39°43'19.61345'	W 75°49'34.45058'	Cecil	Chester	Kelly Lowe	Nichols Excavation	klowe@nicholsconstructiongroup.com	SUBMITTED
5	3	4	N 39 43 19.49394	W 75 50 41.78082	Cecil	Chester	Kelly Lowe	Nichols Excavation	klowe@nicholsconstructiongroup.com	SUBMITTED
6	4	5	N 39°43'19.36193'	W 75°51'49.45980'	Cecil	Chester	Tim Lincoln	Ludgate Eng. Corp.	tlincoln@ludgate-eng.com	SUBMITTED
7	5	6	N 39 43 19.2105	W 75 53 05.45188	Cecil	Chester	Tim Lincoln	Ludgate Eng. Corp.	tlincoln@ludgate-eng.com	SUBMITTED
8	6	7	N 39 43 19.08683	W 75 54 13.10957	Cecil	Chester	Tim Lincoln	Ludgate Eng. Corp.	tlincoln@ludgate-eng.com	SUBMITTED
9	7	8	N 39 43 18.99994	W 75 55 20.85807	Cecil	Chester	Gwen Cunningham	LW Survey	g.cunningham@lwsurvey.com	SUBMITTED
10	8	9	N 39 43 18.82708	W 75 56 28.51821	Cecil	Chester	Tim Lincoln	Ludgate Eng. Corp.	tlincoln@ludgate-eng.com	SUBMITTED
11	9	10	N 39 43 18.7044	W 75 57 36.22029	Cecil	Chester	Tim Lincoln	Ludgate Eng. Corp.	tlincoln@ludgate-eng.com	SUBMITTED
12	10 (2003)	11	N 39 43 18.57298	W 75 58 43.93259	Cecil	Chester	Tim Lincoln	Ludgate Eng. Corp.	tlincoln@ludgate-eng.com	SUBMITTED
13	11	12	N 39 43 18.38728	W 75 59 51.69417	Cecil	Chester	Gwen Cunningham	LW Survey	g.cunningham@lwsurvey.com	SUBMITTED
14	12	13	N 39 43 18.24929	W 76 00 59.42044	Cecil	Chester	Matt Drumheller	Regester Associates, Inc	matt@regesterassociates.com	SUBMITTED
15	13	14	N 39 43 17.99416	W 76 02 06.93297	Cecil	Chester	Matt Drumheller	Regester Associates, Inc	matt@regesterassociates.com	SUBMITTED
16	14	15	N 39 43 17.86894	W 76 03 14.82073	Cecil	Chester	Matt Drumheller	Regester Associates, Inc	matt@regesterassociates.com	SUBMITTED
17	15	16	N 39 43 17.65581	W 76 04 22.39799	Cecil	Chester	Matt Drumheller	Regester Associates, Inc	matt@regesterassociates.com	SUBMITTED
18	16	17	N 39 43 17.49741	W 76 05 30.14144	Cecil	Chester	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
19	17	18	N 39 43 17.28862	W 76 06 38.54572	Cecil	Chester	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
20	18	19	N 39 43 17.18387	W 76 07 45.87735	Cecil	Chester	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
21	19	20	N 39 43 16.89198	W 76 08 52.84187	Cecil	Lancaster	Matt Drumheller	Regester Associates, Inc	matt@regesterassociates.com	SUBMITTED
22	20	21	N 39 43 16.74704	W 76 10 00.42717	Cecil	Lancaster	Matt Drumheller	Regester Associates, Inc	matt@regesterassociates.com	SUBMITTED
23	21	22	N 39 43 16.54210	W 76 11 08.19397	Cecil	Lancaster	Matt Drumheller	Regester Associates, Inc	matt@regesterassociates.com	SUBMITTED
24	22 Granite Reset	23	N 39 43 16.27109	W 76 12 0.99264	Cecil	Lancaster	Matt Drumheller	Regester Associates, Inc	matt@regesterassociates.com	SUBMITTED
25	23 Granite Reset	24	N 39 43 16.39612	W 76 13 23.64378	Cecil	Lancaster	Matt Drumheller	Regester Associates, Inc	matt@regesterassociates.com	SUBMITTED
26	Resurvey (25)	25	Did not search	Did not search	Harford	York				
27	24	26	Found/Not Located	Found/Not Located	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
28	25	27	N 39 43 16.24012	W 76 15 38.70996	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
29	26	28	N 39 43 16.27715	W 76 16 46.25742	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
30	27	29	N 39 43 16.25086	W 76 17 54.05046	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
31	28	30	Found/Not Located	Found/Not Located	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
32	29	31	N 39 43 16.23539	W 76 20 09.43153	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
33	30	32	Found/Not Located	Found/Not Located	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
34	31	33	N 39 43 16.24004	W 76 22 24.76262	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
35	32	34	N 39 43 16.21178	W 76 23 32.58906	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
36	33	35	N 39 43 16.22189	W 76 24 40.34284	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
37	34	36	N 39 43 16.21304	W 76 25 48.0187	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
38	35	37	N 39 43 16.23696	W 76 26 55.72955	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
39	36	38	N 39 43 16.23613	W 76 28 03.54945	Harford	York	Andy Barshinger	SDC	abarshinger@sitedc.com	SUBMITTED
40	37	39	Found/Not Located	Found/Not Located	Harford	York	Michael Youngworth	Century Engineering	myoungworth@centuryeng.com	SUBMITTED
41	38	40	N 39 43 16.24162	W 76 30 19.02084	Harford	York	Michael Youngworth	Century Engineering	myoungworth@centuryeng.com	SUBMITTED

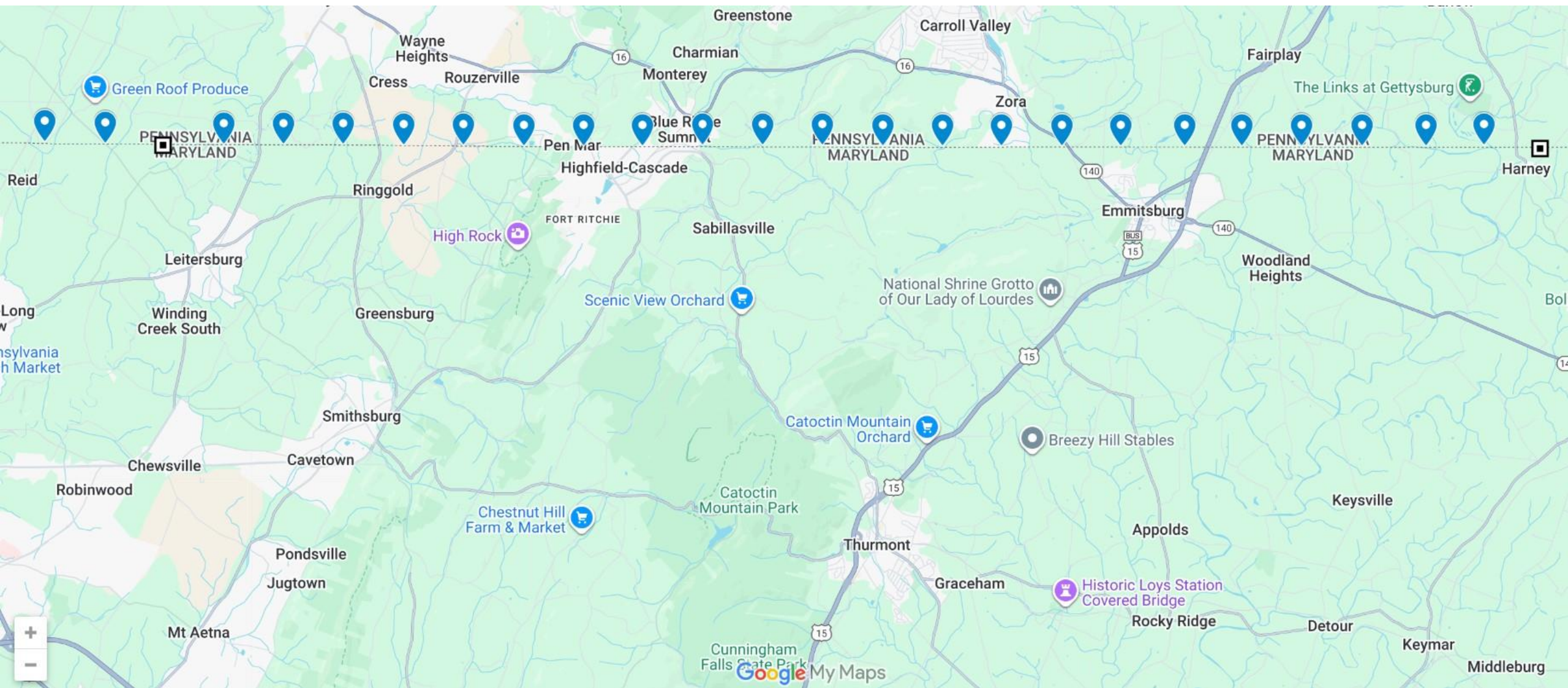
211:211 | fx 187a

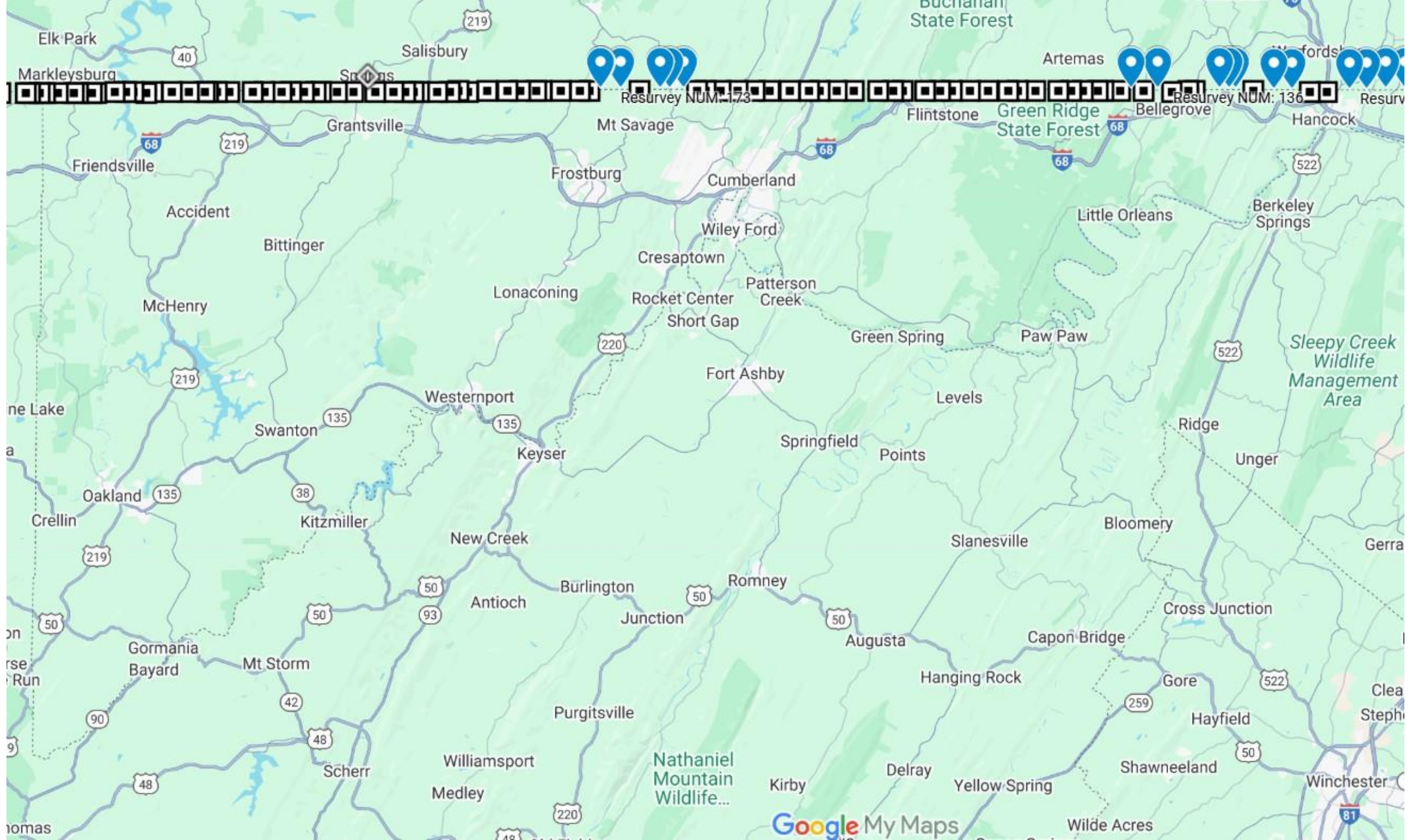
	A	B	C	D	E	F	G	H	I	J	K
1	Monument Number (miles)	RESURVEY (QUAD) NUM	LATITUDE - reference only from 90s survey	LONGITUDE - reference only from 90s survey	MD county	PA county	Your Name	Your Oranization	Your email		
181	165b	178	N 39 43 22.45018	W 78 54 49.37344	Allegany	Somerset	Tim Lincoln	Ludgate Eng. Corp.	tlincoln@ludgate-eng.com	SUBMITTED	
182	166_C	179	N 39 43 22.43171	W 78 54 52.93047	Allegany	Somerset	Tim Lincoln	Ludgate Eng. Corp.	tlincoln@ludgate-eng.com	SUBMITTED	1902 monument
183	166a	180	Found/Not Located	Found/Not Located	Allegany	Somerset	Wayne Aubertin	msS Appalachian Chapter	waubertin@mhgpa.com	SUBMITTED	1902 monument
184	167_C	181	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	msS Appalachian Chapter	waubertin@mhgpa.com	SUBMITTED	1902 monument
185	168_C	182	Did not search	Did not search	Garrett	Somerset	Wayne Aubertin	msS Appalachian Chapter	waubertin@mhgpa.com	SUBMITTED	1902 monument
186	169_C	183	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	msS Appalachian Chapter	waubertin@mhgpa.com	SUBMITTED	1902 monument
187	169a_C	184	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	msS Appalachian Chapter	waubertin@mhgpa.com	SUBMITTED	1902 monument on rock pile
188	170a	185	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	msS Appalachian Chapter	waubertin@mhgpa.com	SUBMITTED	1902 monument
189	171a_C	186	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	msS Appalachian Chapter	waubertin@mhgpa.com	SUBMITTED	1902 monument
190	172_C	187	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	msS Appalachian Chapter	waubertin@mhgpa.com	SUBMITTED	1902 monument
191	173_C	188	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	msS Appalachian Chapter	waubertin@mhgpa.com	SUBMITTED	1902 monument
192	173a_C	189	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	msS Appalachian Chapter	waubertin@mhgpa.com	SUBMITTED	1902 monument
193	174_C	190	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	msS Appalachian Chapter	waubertin@mhgpa.com	SUBMITTED	1902 monument
194	174a	191	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	msS Appalachian Chapter	waubertin@mhgpa.com	SUBMITTED	1902 monument
195	175a_C	192	N 39 43 20.37795	W 79 05 44.04063	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	1902 monument
196	176a_C	193	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	1902 monument
197	176b	194	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	1902 monument
198	177_C	195	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	Waubertin@mhgpa.com	SUBMITTED	1902 monument
199	178_C	196	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	Waubertin@mhgpa.com	SUBMITTED	1902 monument
200	179a	197	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	Waubertin@mhgpa.com	SUBMITTED	1902 monument
201	180_C	198	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	1902 monument
202	181a_C	199	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	1902 monument
203	181b_C	200	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	1902 monument
204	181c	201	Did not search	Did not search	Garrett	Somerset	Patrick Simon	MDLPP/MSS	pat.simon83@gmail.com	SUBMITTED	
205	182a_C	202	Found/Not Located	Found/Not Located	Garrett	Somerset	Patrick Simon	MDLPP/MSS	pat.simon83@gmail.com	SUBMITTED	
206	183a	203	Did not search	Did not search	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	MISSING
207	183b_C	204	Found/Not Located	Found/Not Located	Garrett	Somerset	John Kistler		johnbkistler@gmail.com	SUBMITTED	
208	184a_C	205	Found/Not Located	Found/Not Located	Garrett	Somerset	John Kistler		johnbkistler@gmail.com	SUBMITTED	
209	186a	206	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	1902 monument
210	186b	207	Found/Not Located	Found/Not Located	Garrett	Somerset	Patrick Simon	MDLPP/MSS	pat.simon83@gmail.com	SUBMITTED	
211	187a	208	Did not search	Did not search	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	MISSING - No monument wa
212	187b_C	209	Found/Not Located	Found/Not Located	Garrett	Somerset	Patrick Simon	MDLPP/MSS	pat.simon83@gmail.com	SUBMITTED	1902 monument
213	188_C	210	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	MHG	waubertin@mhgpa.com	SUBMITTED	Survey description only, no p
214	189a	211	Found/Not Located	Found/Not Located	Garrett	Somerset	Patrick Simon	MDLPP/MSS	pat.simon83@gmail.com	SUBMITTED	
215	190a	212	Found/Not Located	Found/Not Located	Garrett	Somerset	Patrick Simon	MDLPP/MSS	pat.simon83@gmail.com	SUBMITTED	
216	190b_C	213	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	Appalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	1902 monument
217	190c	214	Found/Not Located	Found/Not Located	Garrett	Somerset	Wayne Aubertin	MHG	waubertin@mhgpa.com	SUBMITTED	1902 monument
218	191a	215	Did not search	Did not search	Garrett	Somerset	Wayne Aubertin	LIKELY UNDERWATER/RELOCATED	waubertin@mhgpa.com	SUBMITTED	1902 monument
219	192a	216	Found/Not Located	Found/Not Located	Garrett	Fayette	Wayne Aubertin	MHGAppalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	
220	193_C	217	Found/Not Located	Found/Not Located	Garrett	Fayette	Wayne Aubertin	MHGAppalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	MISSING - No monument wa
221	193a	218	Found/Not Located	Found/Not Located	Garrett	Fayette	Wayne Aubertin	MHGAppalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	1902 monument
222	194_C	219	Found/Not Located	Found/Not Located	Garrett	Fayette	Wayne Aubertin	MHGAppalachian Chapter MSS	waubertin@mhgpa.com	SUBMITTED	MISSING - No monument wa



GOOGLE REFERENCE MAP













M-D 151a Resurvey(161) Approx.

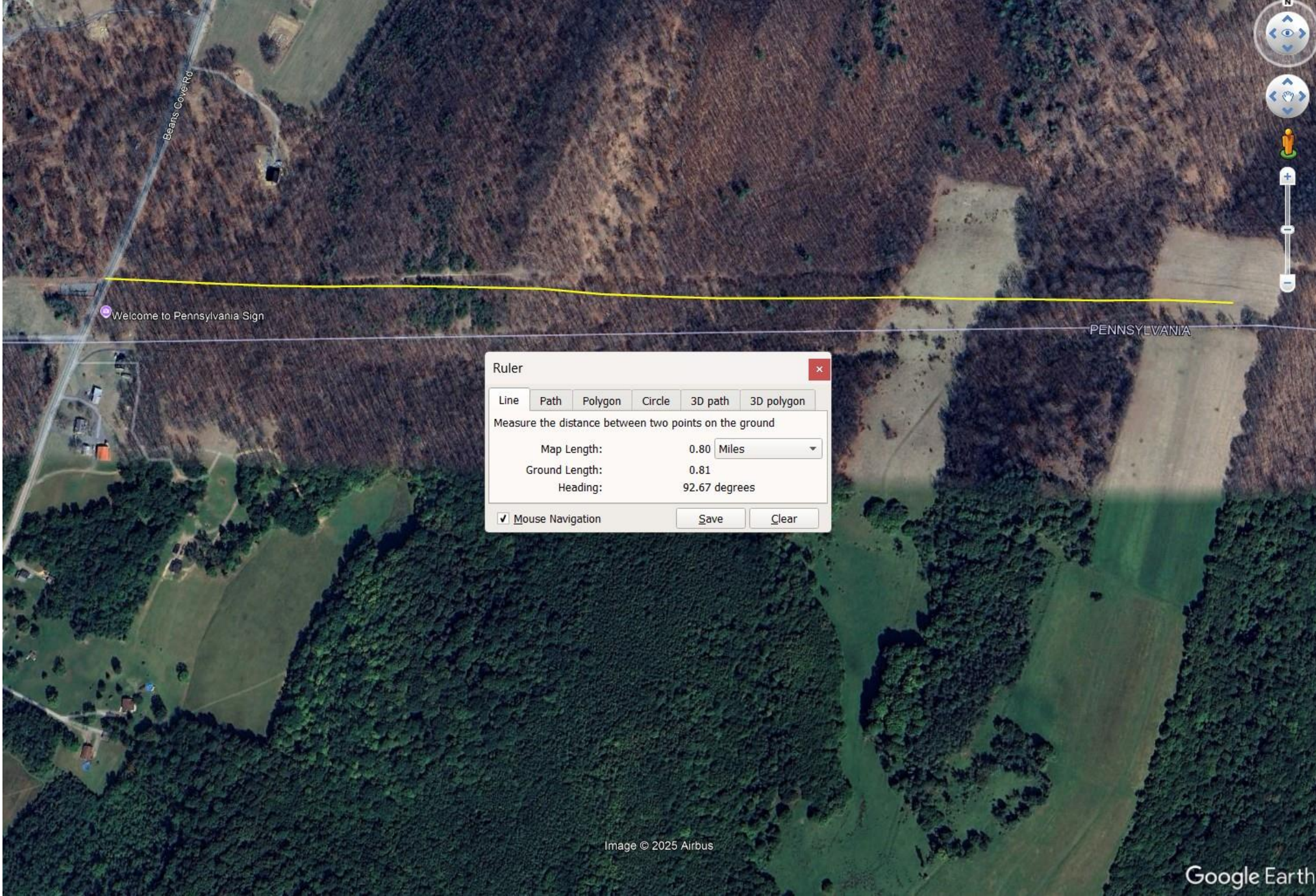




M-D 151a Resurvey(161) Approx.

PEI
M-D 150aC Resurvey(160) Approx.

Pleasant Valley Rd
Rocky Gap Veterans Cemetery



Bears Cove Rd

Welcome to Pennsylvania Sign

PENNSYLVANIA

Ruler

Line

Path

Polygon

Circle

3D path

3D polygon

Measure the distance between two points on the ground

Map Length:

0.80

Miles

Ground Length:

0.81

Heading:

92.67 degrees

☒ Mouse Navigation

Save

Clear





Submissions
the Survey123 “App”

Mason Dixon Monuments Survey

Description content for the survey

Monument Number *

List stone number from previous surveys, or enter "Unknown".

59

Survey Date *

Sunday, March 1, 2020

Surveyor Name *

Wayne aubertin

Surveyor Company *

MHG

Crownstone? *

No

Monument Location *

Capture the location of the monument (tap the location icon in the top right of the map below)

39.720°N 76.901°W ± 10 m

Monument Location *

Capture the location of the monument (tap the location icon in the top right of the map below)

39.720°N 76.901°W ± 10 m

Monument Latitude (decimal degrees) *

Report decimal degrees to 5 decimal places (preferable). If reporting DMS, please separate each element by a comma.

39.720423

Monument Longitude (decimal degrees) *

Report decimal degrees to 5 decimal places (preferable). If reporting DMS, please separate each element by a comma.

76.900619

Directions to Site *

General directions to site including noteworthy landmarks.

Ex: "Follow Friends Creek Rd. east, left at a church and continue 3/4 mi. to the end of gravel rd. Stone is ~600' to the northeast, stone is just east of a dry ditch/gully".

200' behind house located at 2708 Mt Ventus Rd #1 - Manchester Md

Directions to Site *

General directions to site including noteworthy landmarks.

Ex: "Follow Friends Creek Rd. east, left at a church and continue 3/4 mi. to the end of gravel rd. Stone is ~600' to the northeast, stone is just east of a dry ditch/gully".

200' behind house located at 2708 Mt Ventus Rd #1 - Manchester Md

Site Comments *

Additional noteworthy comments about the location.

Ex: "Mature hardwood forest on a south facing slope at the intersection of 'posted' sign lines".

Edge of tree line in backyard

GPS Equipment Used *

Equipment make/model.

None

GPS Accuracy *

Equipment accuracy.

less than 30 ft

Site Conditions *

☐

Forested

☐

Farm Field/Pasture

☒

Residential

☐

Close to Road

Accessibility of Site *

Easy

Accessibility Notes *

Any additional notes about site accessibility

Ex: "Bring machete, site is overgrown", or "Long path to site".

No problems w access

Site Hazards *

Describe any potential health/safety hazards on site.

Ex: "Poison ivy, loose footing, etc".

None

Endangerment to Monument *

Describe any hazards to the stone itself.



Photo of stone from ~30 ft away



Photo_1-20200301-162048.jpg

Eastward facing side of stone

Stone profile, the side that's facing eastward.



Photo_2-20200301-162125.jpg

Northward facing side of stone

Stone profile, the side that's facing northward.



Photo_2-20200301-162125.jpg

Northward facing side of stone

Stone profile, the side that's facing northward.



Photo_3-20200301-162153.jpg

Westward facing side of stone

Stone profile, the side that's facing westward.

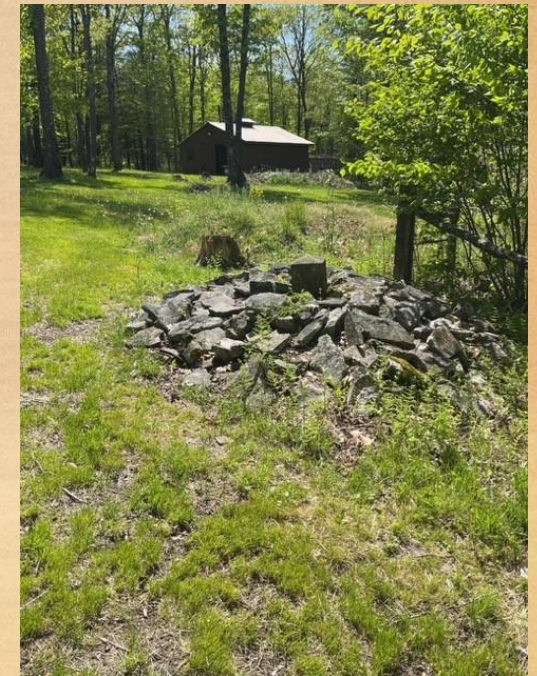


Photo_4-20200301-162212.jpg

My 1st M-D Stone submission was 3/01/2020
I was able to inventory three (3) that first day.



My last Stone submission was 6/21/2023
I was unable to locate this one. (183a/203)



Between 3/09/2020 & 6/24/21 No Stones
were submitted by me.



Efforts for the article were being discussed in early April 2023. The author, Ashley Stimpson, reached out to Eric Gladhill and Dennis Meckley of the PA Assoc. of Surveyors. Eric referred her to me and we finally met up on the weekend of May 27 & May 28, 2023.

Ashley had heard about the M-D Stone inventory and thought she had an idea for the article and pitched it to Popular Mechanics.

WALKING

THE

LINE

Along the Maryland-Pennsylvania border, a volunteer group of surveyors is

I I CAN NO LONGER SEE WAYNE Aubertin, but I can still hear him: his legs thwacking through the underbrush, his labored breath. "Come on!" he yells at no one in particular.

A few minutes later I emerge into a clearing of young saplings and find the 58-year-old surveyor cross-legged in the leaves, folded over a stack of topographical maps streaked with pink highlighter. The phone in his hand is displaying coordinates down to the second in bold, blocky typeface. "We've gotta be within 80 feet," he says.

It's a brilliant May afternoon in the woods of western Maryland, and Aubertin is tantalizingly close to finding a stone the size of a shoebox, last seen, according to a 70-year-old report somewhere in that pile of maps, "in a thicket on a rocky hillside." This task would be easier, no doubt, if we weren't in a geographic region that's almost exclusively thickets and rocky hillsides.

180 - Stone mon. in thick woods on low ridge
called LITTLE SAVAGE MTN.
RESURVEY OF MASON-DIXON LINE 97

W/ ASHLEY

181. Stone monument in earth mound, 167 miles from the Initial Monument. This is in the edge of a thicket east of the open fields which extend to the road from Finzel, Md., to Pocomoke, Pa. This mound was in good condition.
182. Stone monument in old mound in a dense pine thicket, one mile west of the preceding and 168 miles from the Initial Monument.
183. Stone monument in old mound standing in low ground south of Big Piney Run and 169 miles west of the Initial Monument.
184. Stone monument placed at the center of a large mound of stones on Piney Ridge, 27 chains west of the preceding, by Mason and Dixon's measurement, and near the lumber camp called Blue Jay, Pa.
185. Stone monument in open ground on the ridge west of the crossing of Big Piney Run, where it turns to the southward into Maryland.
186. Stone monument placed at the center of a large mound of earth in the fence line separating woods south of the boundary from the open field north of it. About a mile west of the Blue Jay crossing of Big Piney Run.
187. Stone monument in small mound of earth marking the 175th mile of Mason and Dixon's measurement, 172 miles from the Initial Monument. It stands on the edge of a byroad which here follows the boundary for nearly a mile.
188. Stone monument in small mound of stones marking Mason and Dixon's 176th mile, 173 miles west of the Initial Monument. This stands in a thicket south of the pipe line, on the rocky hillside east of the crossing of Big Piney Run at the point where it finally passes from Maryland to Pennsylvania in its course toward the Castleman River.
189. Stone monument placed at the center of a large mound of earth on the summit of Meadow Mountain, built by Mason and Dixon in 1767. By Mason and Dixon's measure this mound was 176 miles, 46 chains, from the "Post mark'd West."
190. Stone monuments in smaller mound on the west slope of Meadow Mountain, marking original mile No. 177, 174 miles from the Initial Monument.
191. Stone monument on Chestnut Ridge, about a mile west of Meadow Mountain.
192. Stone monument placed at the center of a large mound of earth on the farm of T. J. Maust, west of the Chestnut Ridge road.
193. Stone monument in smaller mound about half a mile farther west. This marks the end of Mason and Dixon's 179th mile, about 176 miles from the Initial Monument, at the northeastern corner of Maryland.
194. Stone monument in open field, west of the woods and east of the Jennings Lumber railroad, which here follows the eastern bank of the Castleman River.

39.722475
79.056537

187. Stone monument in small mound of earth marking the 175th mile of Mason and Dixon's measurement, 172 miles from the Initial Monument. It stands on the edge of a byroad which here follows the boundary for nearly a mile.

188. Stone monument in small mound of stones marking Mason and Dixon's 176th mile, 173 miles west of the Initial Monument. This stands in a thicket south of the pipe line, on the rocky hillside east of the crossing of Big Piney Run at the point where it finally passes from Maryland to Pennsylvania in its course toward the Castleman River.

189. Stone monument placed at the center of a large mound of earth on the summit of Meadow Mountain, built by Mason and Dixon in 1767. By Mason and Dixon's measure this mound was 176 miles, 46 chains, from the "Post mark'd West."

190. Stone monuments in smaller mound on the west slope of Meadow Mountain, marking original mile No. 177, 174 miles from the Initial Monument.

191. Stone monument on Chestnut Ridge, about a mile west of Meadow Mountain.

#191

79°04' 41.30"

190
772

#189

79°03' 25.8"

#188

79°02' 45.83
+ approx.

79°01' 37.8"

1,100FT

#188

SOMERSET CO
GARRETT CO

0.3 mile
UNDERGROUND

0.35
MILE

N

Run

MASON

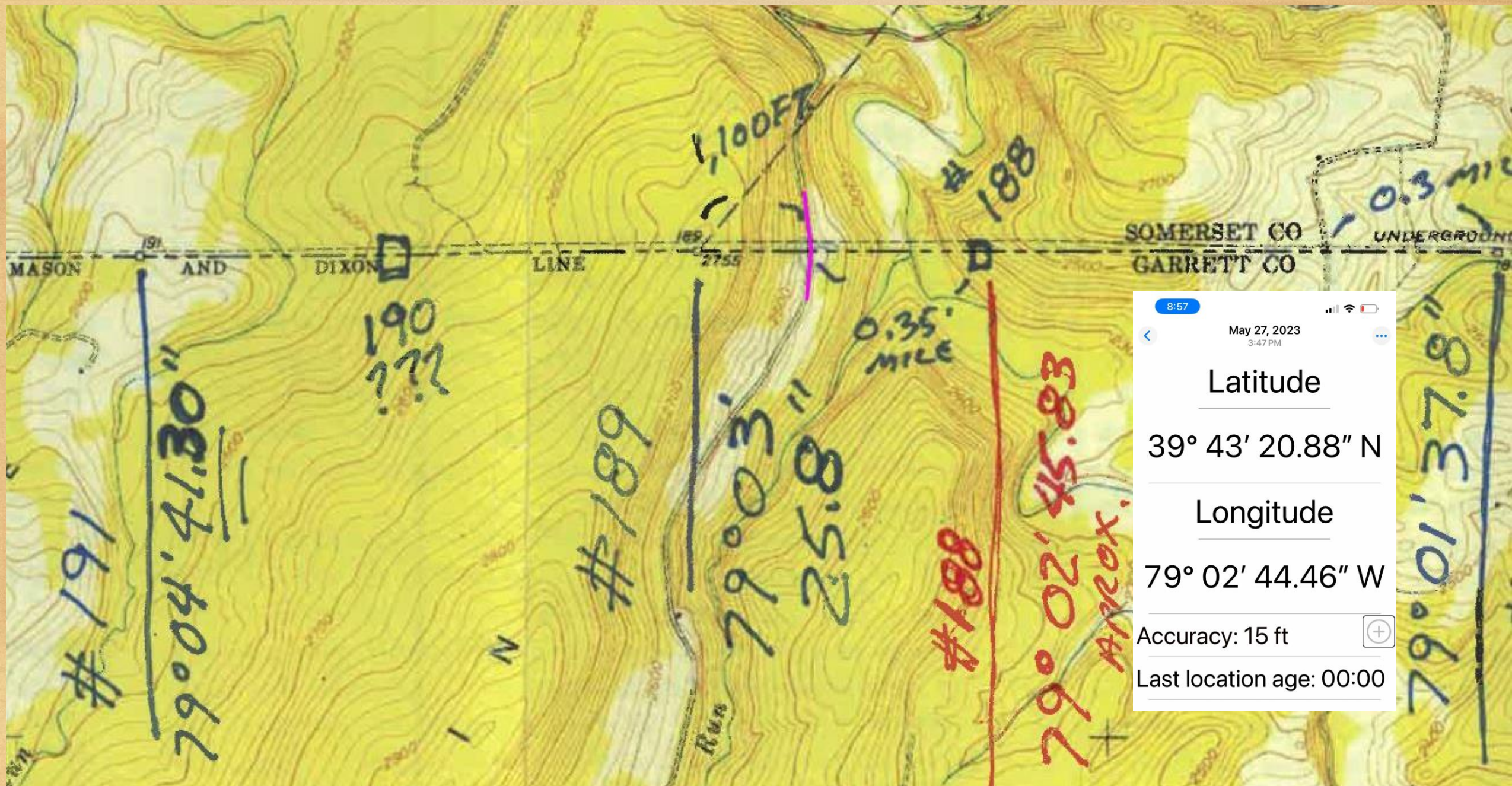
AND

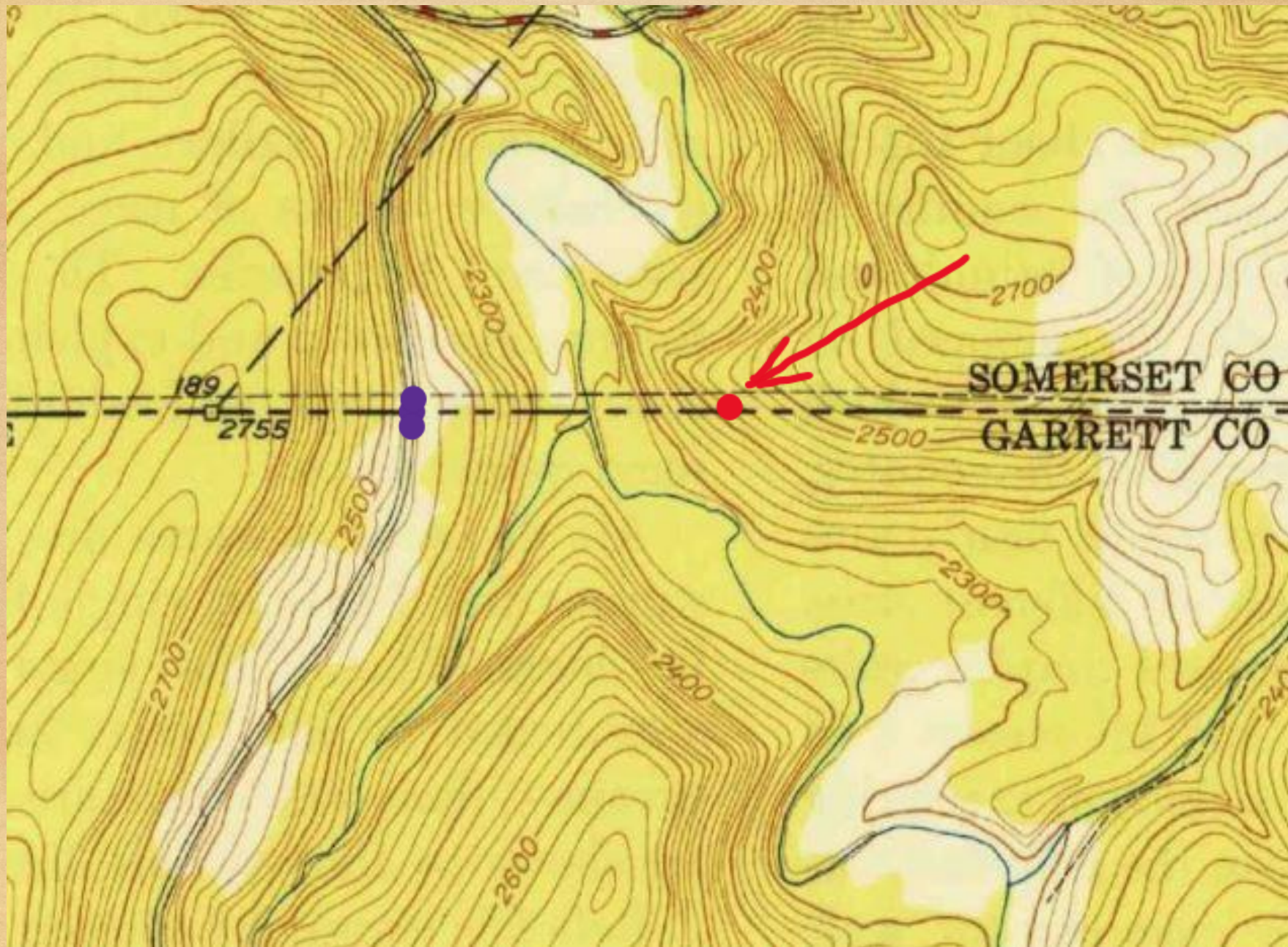
DIXON

LINE

189
2755

190











Where is
Stone 215?



1980 Report – Stone 215

MARYLAND GEOLOGICAL SURVEY
Merryman Hall
The Johns Hopkins University
Baltimore, Maryland 21218
(301) 338-7156

COUNTIES (MD/PA) GARRETT/SOMERSET
M&D milestone no. --- (215)
MHT-HSI no. G-IIA-260
(site inundated)

~~PROTECTED/ENDANGERED/MISSING~~

FIELD SHEET: MASON & DIXON LINE, MARYLAND-PENNSYLVANIA BOUNDARY MARKER SURVEY

LOCATION: USGS 7.5'quadrangle/date Friendsville 1947, UTM (former site) 17. 63782.439783
~~original site/moved/date~~ new stone monument addition to bench mark/date
line (1902); monument removed prior to river impoundment (1943) when site inundated
was about 100' E of Youghiogheny River, by side of road paralleling river, leading
from Somerfield, PA to Speelman Mills, MD.

DIRECTIONS TO SITE:

DESCRIPTION/MEASUREMENTS: ~~original/replica/replacement/date~~ new stone monument
addition to the line (1902), like others set in western Maryland at that time
N face (PA): P

E face: 1767

S face (MD): M

W face: 1902

top:

bench mark:

CONDITION OF MARKER/FOUNDATION: excellent/good/fair/deteriorated/ruins/unexposed
1900-03 Resurvey notes (order no. 215), as in MGS Vol. 7, 1908, p. 99

215. Stone monument by the side of the road which runs along the east side of the
Youghiogheny River from Somerfield, Pa., to Speelman Mills, Maryland.

1950 Inspection notes (present order no. 211, photo no. --) as in Bayliff, 1959,
Appendix C, p. 116 & Appendix D, p. 117

215. Monument buried by Youghiogheny Reservoir. See other side for subsequent
notes, added to Bayliff edition of 1959, Appendix D, p. 117.

1979-81 Inspection notes: order no. --- (215); photos/negatives/slides no. --- (215)

--- (215). New stone monument addition to the line (1902), removed prior to the
inundation of the area by the Youghiogheny River (dam constructed 1943).
Monument not recorded 1950 or 1981 inspections.

SURROUNDING PROPERTY OWNERS (MD/PA): names, addresses, phones

MD: tax map 4, block , P. , deed / , acres

PA: tax map , block , P. , deed / , acres

RECORDED BY: names, addresses, phones, dates Alice Martin 7/25/81
14308 Mount Ave., Phoenix, MD 21131 Phone: 301/472-2128

Assisted by

Also see: reverse side X, B&W photos , negatives , color slides , maps X ,
MHT-HSI form , other

MARYLAND GEOLOGICAL SURVEY
Merryman Hall
The Johns Hopkins University
Baltimore, Maryland 21218
(301) 338-7156

COUNTIES (MD/PA) GARRETT/SOMERSET
M&D milestone no. --- (215)
MHT-HSI no. G-IIA-260

PROTECTED/ENDANGERED/MISSING (site inundated)

FIELD SHEET: MASON & DIXON LINE, MARYLAND-PENNSYLVANIA BOUNDARY MARKER SURVEY

LOCATION: USGS 7.5' quadrangle/date Friendsville 1947, UTM (former site) 17. 63782.439783
~~original~~ site/~~moved~~/date new stone monument addition to bench mark/date
Line (1902); monument removed prior to river impoundment (1943) when site inundated
Was about 100' E of Youghiogheny River, by side of road paralleling river, leading
from Somerfield, PA to Speelman Mills, MD.

DIRECTIONS TO SITE:

DESCRIPTION/MEASUREMENTS: ~~original/replica/replacement~~/date new stone monument
addition to the Line (1902), like others set in western Maryland at that time
N face (PA): P

E face: 1767

S face (MD): M

CONDITION OF MARKER/FOUNDATION: excellent/good/fair/deteriorated/ruins/unexposed
1900-03 Resurvey notes (order no.215), as in MGS Vol. 7, 1908, p. 99

215. Stone monument by the side of the road which runs along the east side of the
Youghiogheny River from Somerfield, Pa., to Speelman Mills, Maryland.

1950 Inspection notes (present order no. 211, photo no.--) as in Bayliff, 1959,
Appendix C, p. 116 & Appendix D, p. 117

215. Monument buried by Youghiogheny Reservoir. See other side for subsequent
notes, added to Bayliff edition of 1959, Appendix D, p. 117.

1979-81 Inspection notes: order no.--- (215; photos/negatives/slides no. --- (215)
--- (215). New stone monument addition to the ^{to farm some distance north of boundary} Line (1902), removed/prior to the
inundation of the area by the Youghiogheny River (dam constructed 1943).
retrieved or
Monument not/recorded 1950 or 1981 inspections.

SURROUNDING PROPERTY OWNERS (MD/PA): names, addresses, phones

MD: tax map 4 , block , P. , deed / , acres

PA: tax map , block , P. , deed / , acres

RECORDED BY: names, addresses, phones, dates

Alice Martin 7/25/81

14308 Mount Ave., Phoenix, MD 21131

Phone: 301/472-2128

Assisted by

Also see: reverse side X, B&W photos , negatives , color slides , maps X ,
MHT-HSI form , other

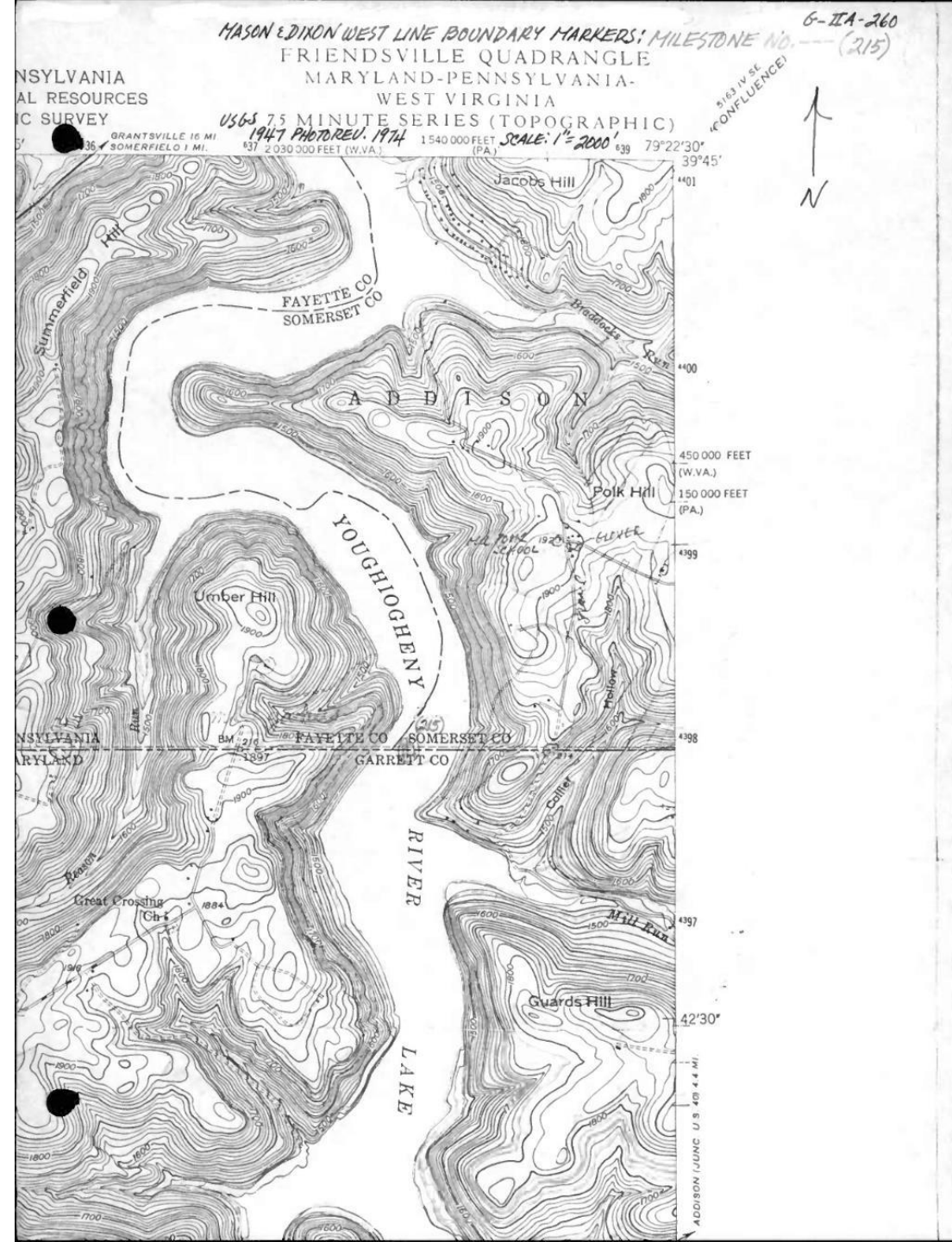
NOTES

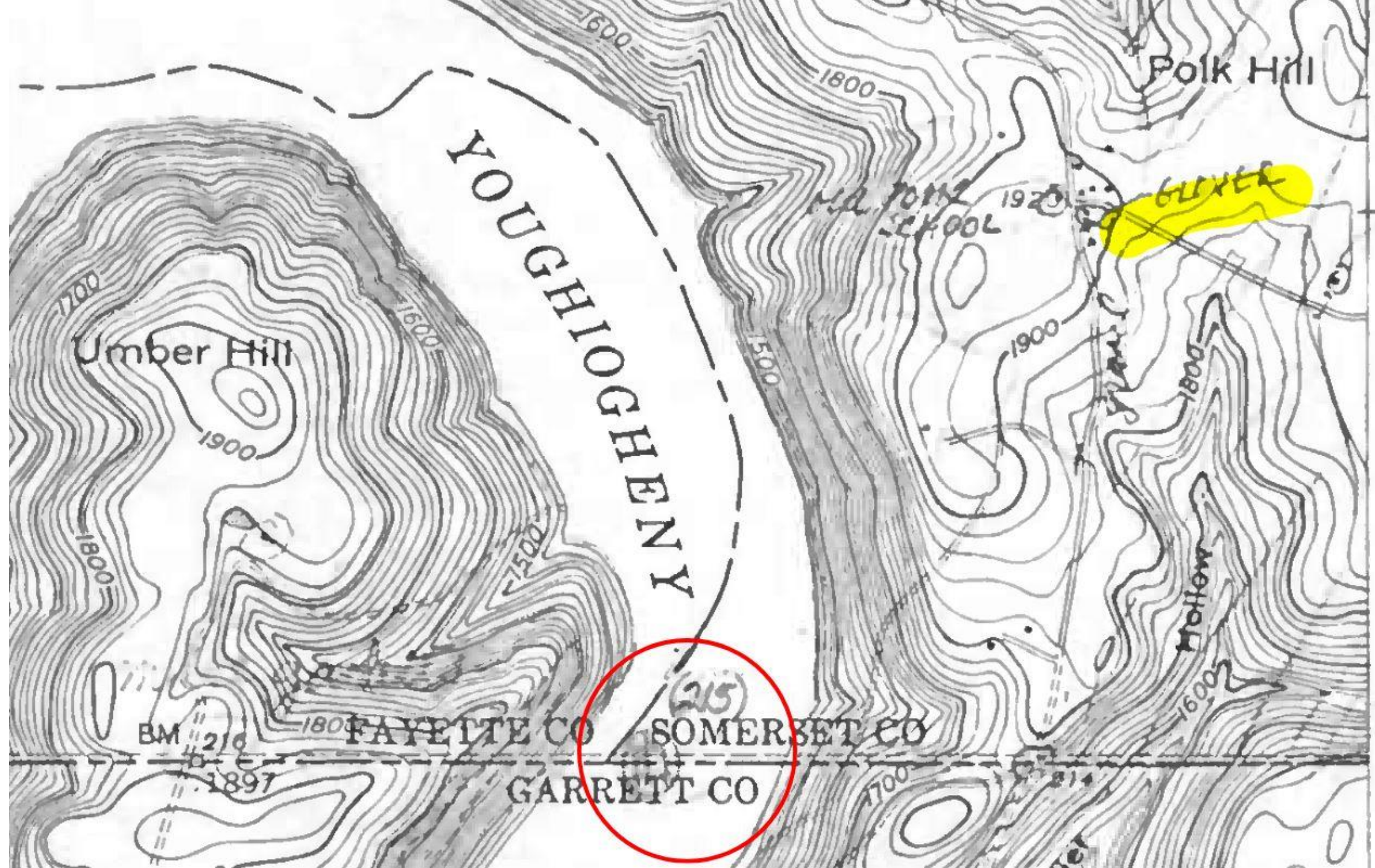
APPENDIX D, NEW INFORMATION ON BOUNDARY MARKERS (as in Bayliff, 1959, p. 117):

Marker 211. The Board of Natural Resources was advised by the U. S. Corps of Engineers, Pittsburgh District, that the marker which formerly stood along the shores of the Youghiogheny River was removed prior to the inundation of the area by the Youghiogheny Reservoir. For some time the Board was unable to determine what disposition had been made of this marker. Late in 1953 Dr. A. L. Trussell located this marker on a farm some distance north of the boundary. This particular marker was one of the marble stones made especially for the 1900-03 resurvey. Since the site of this marker is now inundated, no attempt has been made to return this marker to the boundary.

Since several monuments along the West Line are missing, MGS will want to attempt to locate No. (215) and reset elsewhere, such as a substitute for No. (203) if not found. MGS will also want to determine exact (former) location for the record, & possibly for adding to MGS and USGS topographic maps. Early photos or copies should also be solicited from local residents, county and other historical societies, U.S. Corps of Engineers, and the National Geodetic Survey files for the 1900-03 Resurvey.

Last Page of
1980 Report





YOUGHIOGHENY

Polk Hill

Umber Hill

MA. 7012
SCHOOL

61XER

(215)

FAYETTE CO / SOMERSET CO

GARRETT CO

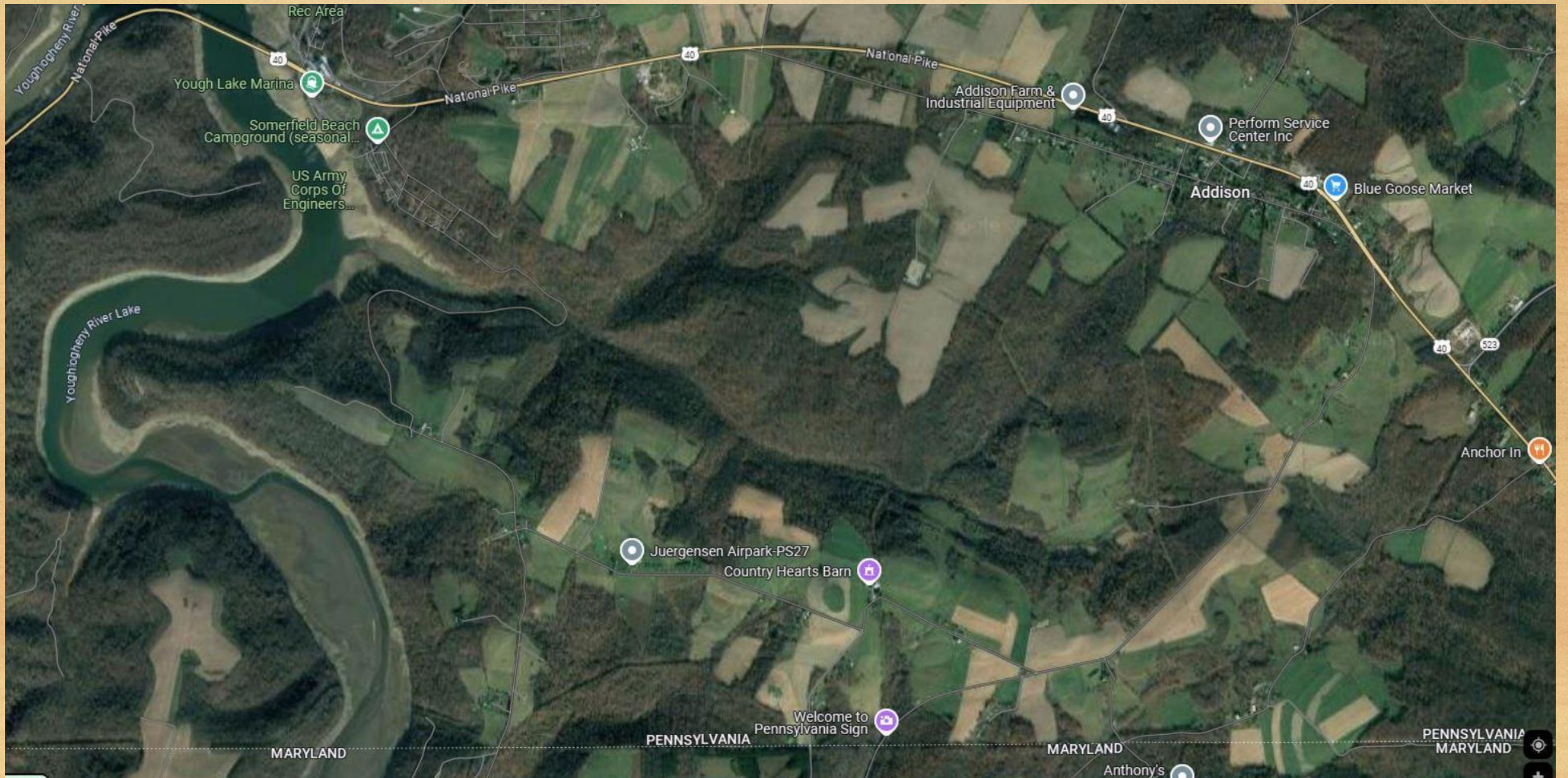
BM 216
1897

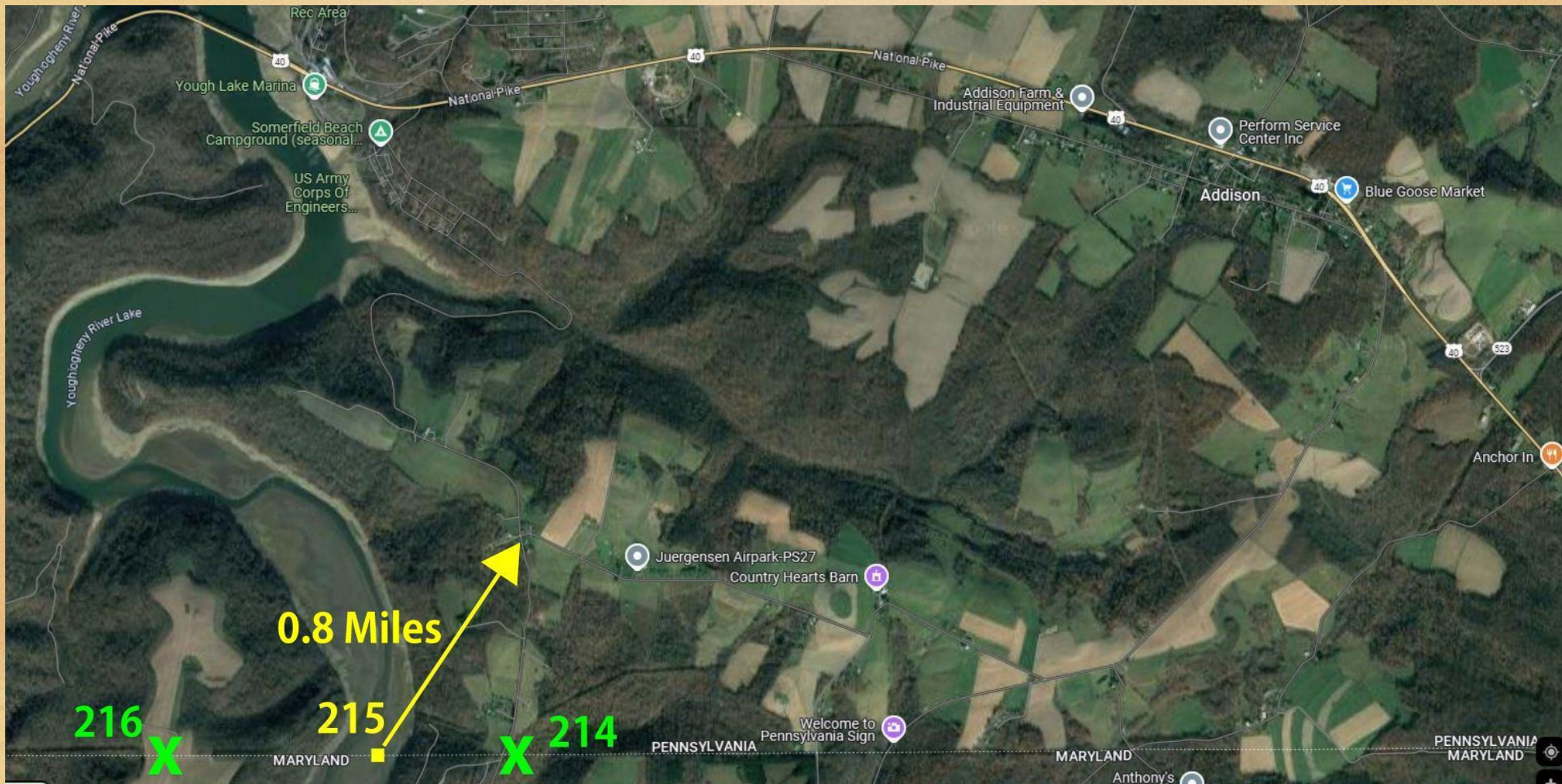


Stone 214

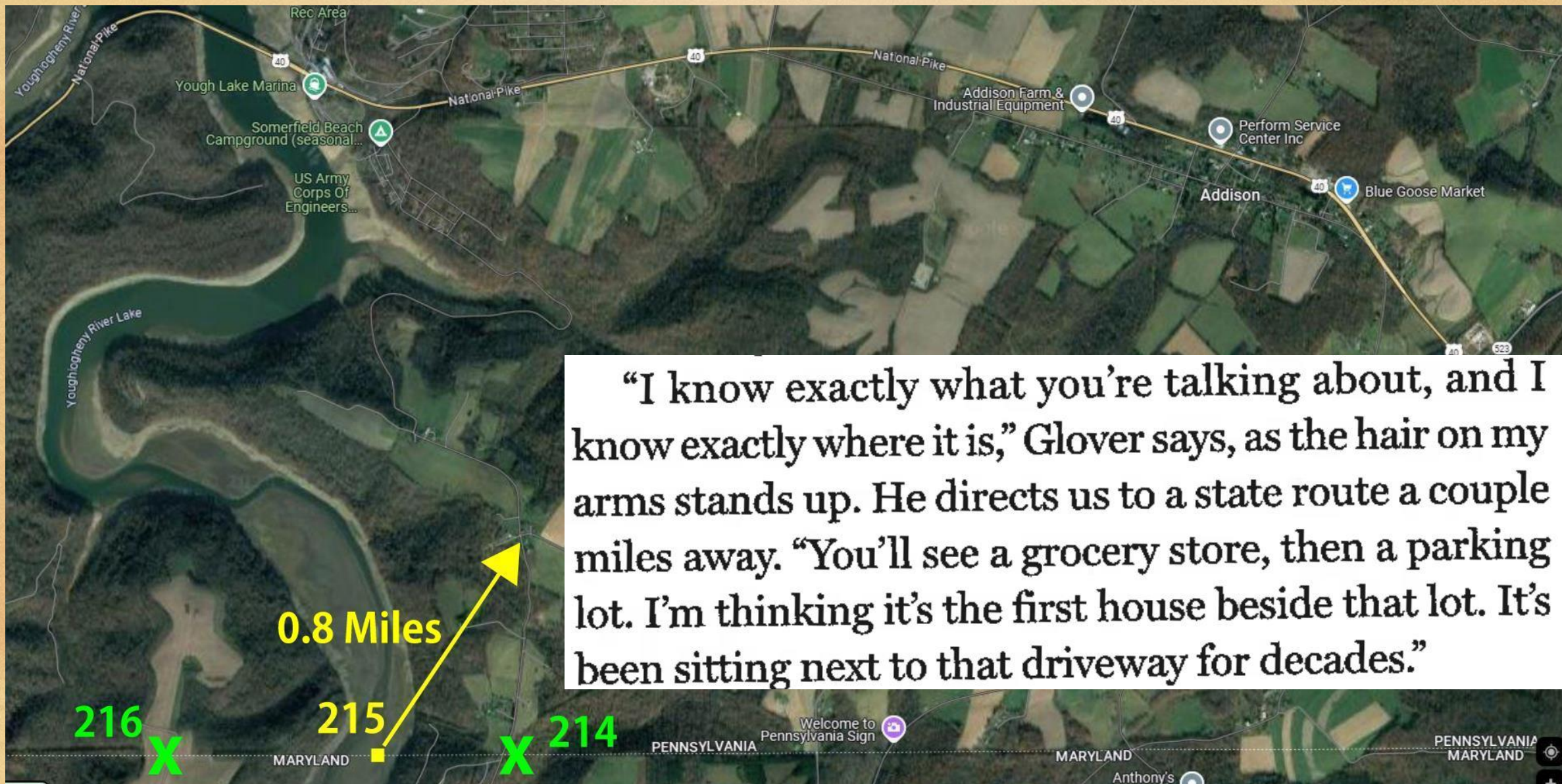


Stone 216

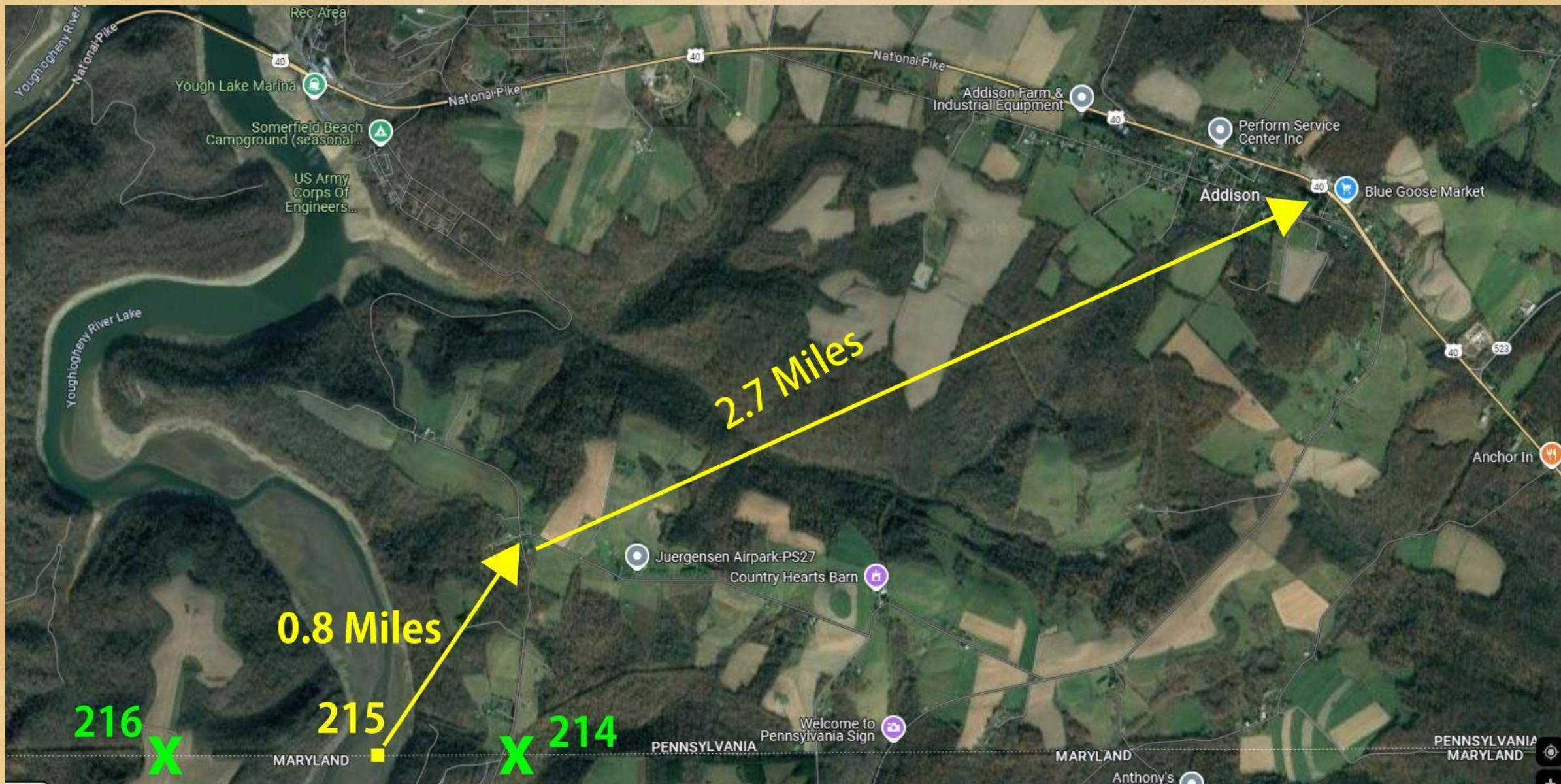








“I know exactly what you’re talking about, and I know exactly where it is,” Glover says, as the hair on my arms stands up. He directs us to a state route a couple miles away. “You’ll see a grocery store, then a parking lot. I’m thinking it’s the first house beside that lot. It’s been sitting next to that driveway for decades.”



Ten minutes later, we're pulling into the driveway of the first house after the parking lot next to the grocery store. It's a tidy, moss-green split-level, and Aubertin's truck isn't even in park before his face cracks into a grin. "I'm going to let you find it," he says. It takes a second before I see what he sees: the 1902 replica stone planted right next to the woodshed. We snap a celebratory selfie with the old rock before Aubertin begins documenting its condition.







ANY QUESTIONS

HOW GOOD WERE MASON & DIXON?

Latitude

39° 43' 16.65" N

Longitude

79° 25' 15.42" W

☐ ° ☐ °' ☒ °'' UTM MGRS

Accuracy: 15 ft

Last location age: 00:00

Latitude

39° 43' 21.32" N

Longitude

78° 22' 52.68" W

Accuracy: 16 ft

Last location age: 00:00

< Friday 2:10 PM Edit ⋮

Latitude

39° 43' 20.10" N

Longitude

77° 55' 04.15" W

☐ ° ☐ °' ☒ °'' UTM MGRS

Accuracy: 15 ft

Last location age: 00:00

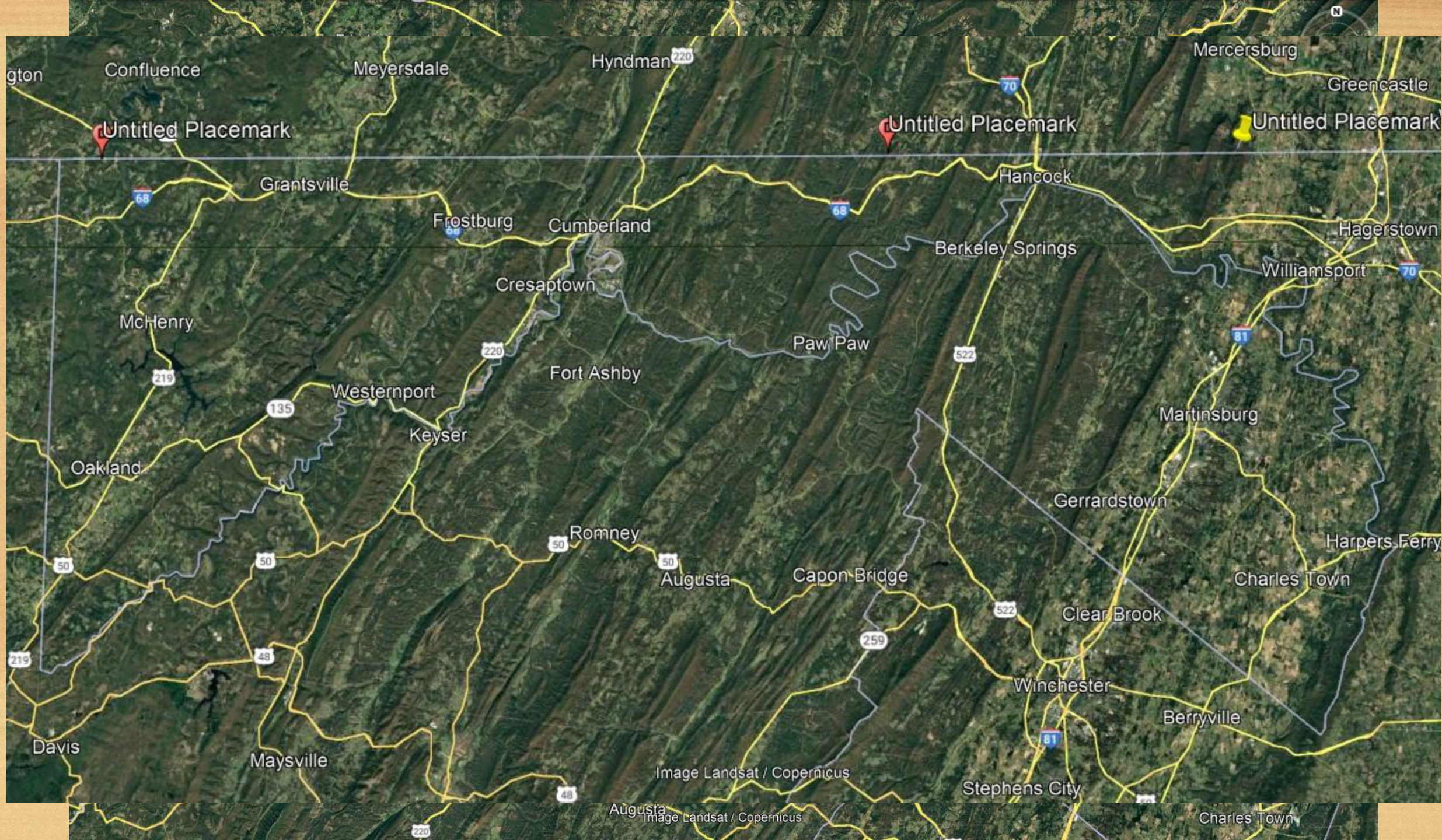
FRIENDSVILLE, MD

55.4 MILE

BELLESGROVE, MD

24.7 MILE

CLEAR SPRING, MD



ACCURACY OF INVENTORY



JW1390 DESIGNATION - BOUNDARY MONUMENT 130 MD PA
JW1390 PID - JW1390
JW1390 STATE/COUNTY- MD/WASHINGTON
JW1390 COUNTRY - US
JW1390 USGS QUAD - HANCOCK (2016)

JW1390
JW1390 *CURRENT SURVEY CONTROL

JW1390* NAD 83(1991) POSITION- 39 43 21.01015(N) 078 14 12.65950(W) ADJUSTED
JW1390* [NAVD 88](#) ORTHO HEIGHT - 218. (meters) 715. (feet) SCALED

JW1390
JW1390 GEOID HEIGHT - -33.881 (meters) GEOID18
JW1390 LAPLACE CORR - -5.10 (seconds) DEFLEC18
JW1390 HORZ ORDER - SECOND

JW1390
JW1390.The horizontal coordinates were established by classical geodetic methods
JW1390.and adjusted by the National Geodetic Survey in January 1992.

JW1390
JW1390.The orthometric height was scaled from a topographic map.

JW1390
JW1390.Significant digits in the geoid height do not necessarily reflect accuracy.
JW1390.GEOID18 height accuracy estimate available [here](#).

JW1390
JW1390.Click [photographs](#) - Photos may exist for this station.

39 deg. 43' 21.133"

78 deg. 14' 12.415"

10:26

Mason Dixon Monuments Survey

Surveyor Company *

Self

Crownstone? *

Yes

Monument Location *

Capture the location of the monument (tap the location icon in the top right of the map below)

39.723°N 78.237°W ± 4.7 m



Monument Latitude (decimal degrees) *

Report decimal degrees to 5 decimal places (preferable). If reporting DMS, please separate each element by a comma.

39.722537

Monument Longitude (decimal degrees) *

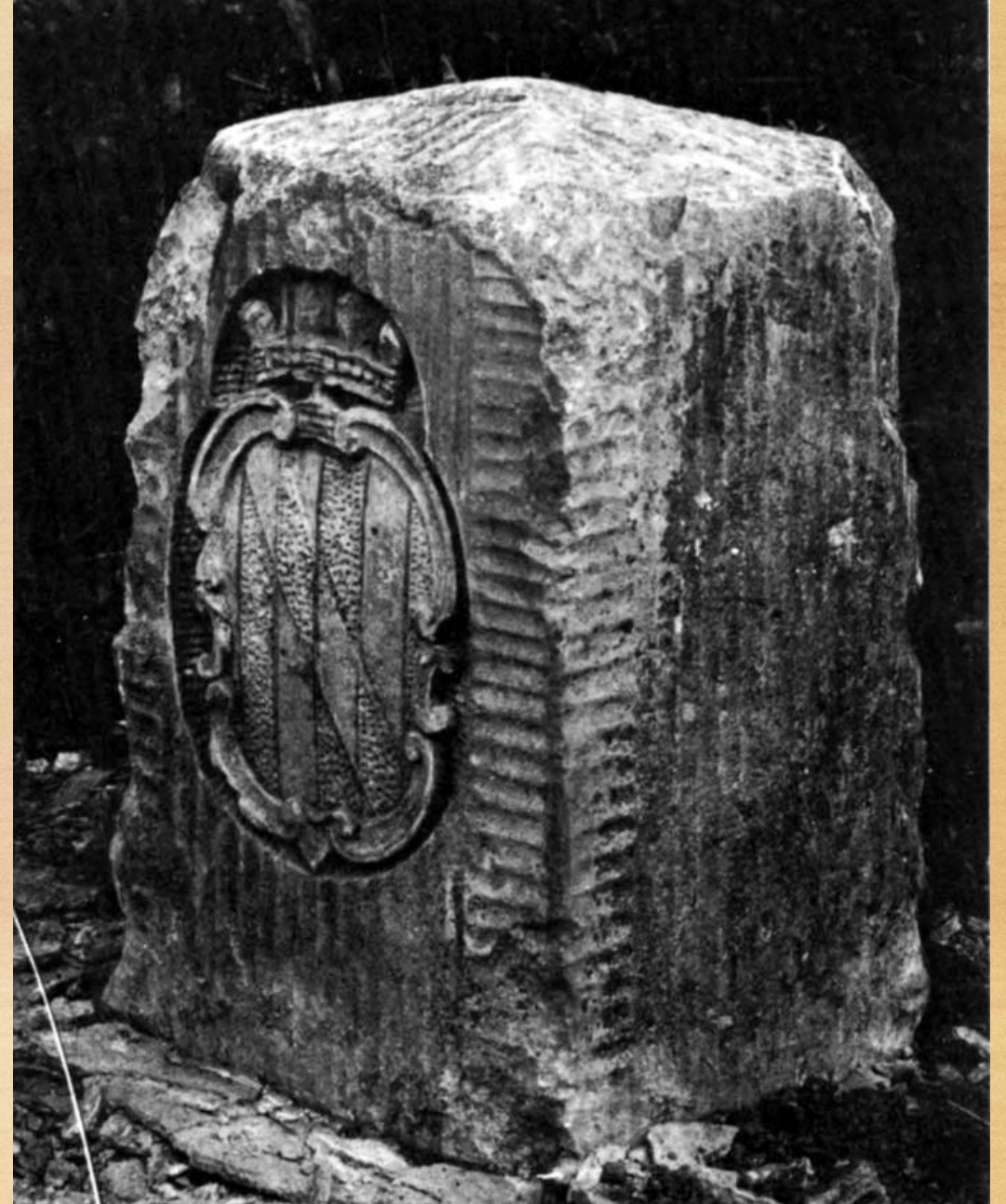
Report decimal degrees to 5 decimal places (preferable). If reporting DMS, please separate each element by a comma.

-78.236782

CROWN STONES SET AT 5 MILE INTERVALS



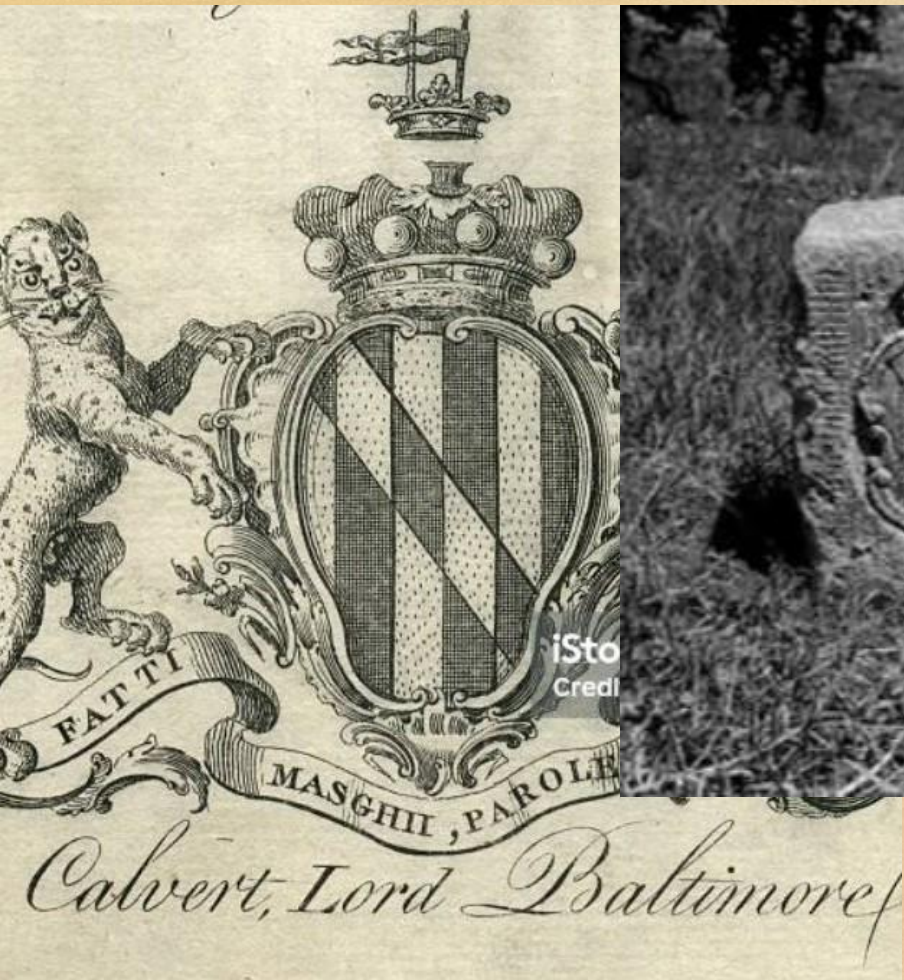
CROWN STONES WEATHERED (CIVIL WAR ERA)



CROWN STONES SET AT 5 MILE INTERVALS



CROWN STONES SET AT 5 MILE INTERVALS



DAMAGED STONES





SOME ARE PROTECTED BETTER THAN OTHERS



**1903 STONE IN AN
ORIGINAL CAIRN**















SOME ARE EASIER TO FIND THAN OTHERS

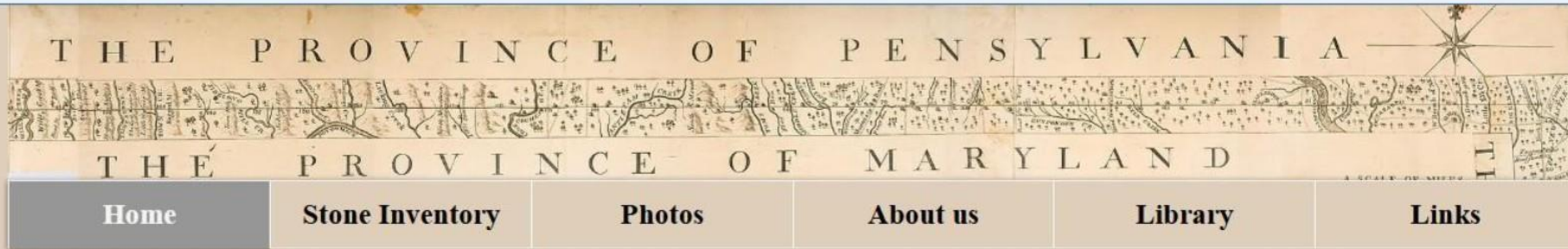




WIX

This website was built on Wix. Create yours today.

Get Started



Home

Stone Inventory

Photos

About us

Library

Links

New Inventory of the Mason and Dixon line stones underway

The upcoming Nationals Surveyors Week, March 15-21, 2020 will be the official kick-off for the inventory of the Mason and Dixon Line Stones along the Maryland and Pennsylvania boundary. A soft start date will be February 1, 2020 and instructions on how to get ready are being provided here. Please share this information with your fellow surveyors or anyone else that may be interested in participating in this historic project

The Maryland Geological Survey (MGS) and the Pennsylvania Historical & Museum Commission (PHMC) want to get these historic markers included in the National Registry to help in protecting and preserving these physical boundary markers that define the boundary between the two states. The Land Surveying community will be the "boots on the ground," taking pictures and gathering current physical characteristics and locations of each stone. That data can collected/recorded with any smart device and transferred to MGS for the final processing.

The next three sections will go over (1) the free app that can be downloaded for use in a smartphone or tablet, (2) the sign-up sheet to indicate which stones you are willing to inspect and (3) an explanation of the abbreviations in the stone designations to assist you in knowing some of the details for each stone.

Register and Volunteer

Online sign-up sheet

This spreadsheet (link below) is where you can find information about and select which stones you want to inspect. Please remember to add your name and email by each stone you select.

<https://docs.google.com/spreadsheets/d/1t2jk6r07u9jVJck2Bu61m-t3BUQ7h6-5BaJBsEGVXaw/edit#gid=500651331>

Download Inventory Directions

Download Instruction Sheet

Let's Chat!



CIVIL ENGINEERING
LAND SURVEYING
LANDSCAPE ARCHITECTURE
LAND PLANNING

Wayne F. Aubertin, LS

LAND SURVEY MANAGER

waubertin@mhgpa.com

C: 240-440-9216

301.670.0840 X1023

D 240.912.0823

9220 Wightman Road, Suite 120
Montgomery Village, MD 20886



FOOT FAULT

GOOD NIGHT



Th-Th-Th-That's All Folks